

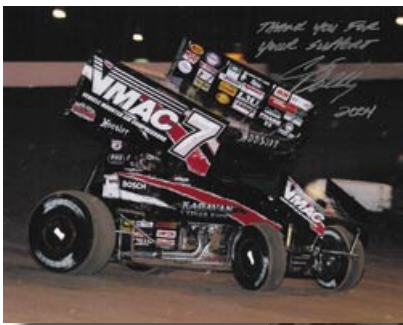
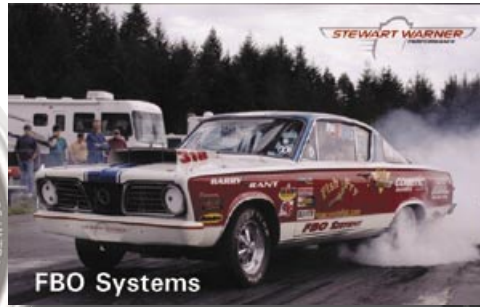
# STEWART WARNER

2006 Performance Products Catalog



*Performance You Can Count On!*

*Serving the performance market for 101 years*



Maxima Technologies & Systems, LLC holds the following trademarks and patents (among others not listed):  
**PATENTS:**  
 U.S. Patent D509,764S

**TRADE MARKS:**  
 Track Force USPTO Reg No 1,490,858  
 Stewart Warner USPTO Reg No 3,020,224  
 Wings UPTO Reg No 2,918,903  
 SW (logo) USPTO Reg No 3,001,456  
 G.U.S. USPTO Reg No 2,911,026  
 Stewart Warner (logo in wings) USPTO Reg No 2,997,983

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# PRODUCT SELECTION GUIDE

## Ultra-Shift Lights™



Ultra-Shift Light™ (USL) and Gauge Ultra-Shift™ (G.U.S.™) offer breakthrough performance for drag racers. USL and G.U.S.™ are digital tachs and LED shift lights with peak RPM that cover the full range of engine applications, with resolution to 10 RPM. No pills or modules required! Options include window switch controller and 4-shift technology (peak RPM, 4-shift recall and trap RPM). G.U.S.™ puts the digital tach and shift light into a compact 2-1/16" gauge package.

See page 12

## Competition Tachs & Gauges



Competition tachs, gauges, speedometers, shift lights and accessories set a new standard for high-performance and good-looks. Designed with racers in mind, these instruments offer unparalleled reliability, durability and accuracy. Plus, they can be easily customized with LED light kits and paintable bezels. Large, "Face-Forward™" dials with streamlined bezels, bright 3-D orange pointers, engineered resin cases with sealed bulb enclosures, and sealed front ends translate into winning performance!

See page 10

## Impact™



New Impact™ gauges will inspire you! Available with black or white dials; crisp, easy-to-read graphics; a lighted pointer and backlighting that looks incredible at night; bright stainless steel, streamlined bezel; and domed lens. These gauges are not only good-looking, they're functionally superior with the highest quality construction possible. And, LED light kits are available so you can change gauge colors to match your car's interior.

See page 30

## Deluxe™



Perhaps the most popular Stewart Warner gauge line ever, Deluxe™ established the industry standard more than 40 years ago. Easy-to-read graphics on a black face with a white pointer, low-profile stainless steel bezel and patented light ring for night-time illumination make this gauge one of the most recognizable in the business! Ideal for street rods, hot rods, muscle cars, and even race cars.

See page 24

# PRODUCT SELECTION GUIDE



Classic, retro styled Wings™ gauges are IDEAL for street rods and collector cars. Available with black, white or cream colored dials; chrome or gold-plate bezels; a distinctive, authentic teardrop pointer with crescent moon dial; and domed lens. If you're aim is originality, put Stewart Warner Wings™ in your car or truck--there is NO substitute!

**New for 2006: Wings™ tachs are being updated to make them more compatible with today's ignition systems, while speedos now offer easier programming.**

See page 32

## SW

Your muscle car deserves more power! Adapted from the original 1960s Custom-Deluxe™ product line, Power Series™ gauges feature a silver disk in the center of the dial--just like the originals; a red, blue or titanium color band that complements Big 3 color schemes; bold, easy-to-read graphics; and white and black pointers with silver hubs.

See page 36

## SW

Stewart Warner's Standard gauge line features classic white graphics on a black face with a bright, flat stainless steel bezel, and white pointers. Mechanical gauges use a proven diaphragm mechanism. Dating to the 1940s, Standard gauges are ideal for under-dash mounting.

See page 40

## SW

An authentic look for yesterday's or today's cars or trucks, these gauges feature our patented light ring for superior night-time lighting plus a unique black bezel with a brushed bright ring. Bold white-on-black graphics and a classic white pointer with a black hub. The rugged gauges movements are ideal for trucks too.

See page 42

## Wings™



## Power Series™



## Standard & Standard Plus™



## Heavy Duty™



# PRODUCT SELECTION GUIDE

## 5" Instruments



Looking for a way to dress up your classic Chevy or Dodge or Ford dashboard? Stewart Warner's 5" speedometers, tachometers, and 4-in-one gauge clusters are originals--not copies! Available with black-on-white or white-on-black Deluxe™ style graphics, contrasting pointers and stainless steel bezels. There are also versions with the Wings™ logo. Matching speedometer senders are available.

See page 46

## Senders & Switches



Full range of fuel, oil pressure and temperature senders, contained in kits--with gauges--or sold separately, as well as speed sensors and switches. Fuel senders and accessories are available for virtually any car or truck. Specific oil pressure and temperature senders available for SWP and Impact™ Series gauges. Also available: electronic fuel-level sensors for gasoline and fuel-cell applications.

See page 52

## Mounting Solutions



Complete line of SWP gauge pods for cars and trucks, mounting cups and straps, and various SWP and SW gauge panels such as the SW Straight 5 panel. Now, it's easier than ever to put Stewart Warner gauges in your vehicle. And we can support 179 different vehicles with our SWP gauge pods!

See page 57

## Lighting & Customization



New Chameleon™ offers an unprecedented lighting and customization feature for SWP and Impact™ Series gauges by providing variable LED lighting capability for up to eight instruments, with literally more than a million different color combinations. Also available: SWP and Impact™ Series LED light kits (single color), replacement light kits, as well as SWP bezel kits for custom projects (e.g. paintable).

See page 55

# PRODUCT SELECTION GUIDE



## Accessories

Miscellaneous accessories include adapters for mechanical gauges and temperature senders, tubing kits, stainless steel hose, light kits, fuel pumps and shunts. (Note: Bulk core and casing, special tools, end tips, ferrules and nuts, and drive joint kits and parts are still available in the Stewart Warner Heavy-Duty catalog.) Also available: SWP Ultra-Alert LED warning lights (amber, red, blue).



See page 53

**If you are looking for our Heavy Duty Plus™, World Wide™, Comander™ gauge lines or core & casing, drive joint kits and halogen lighting or other products, check out our website or request our Heavy Duty catalog from Customer Service at 1-800-676-1837.**



Vincent Budano

# PRODUCT HIGHLIGHTS



## STEWART WARNER "MINI" GAUGES

Stewart Warner's electric "mini" gauges, from the Competition Tachs and Gauges line, are only 1-1/2" in diameter, making them ideal for cars where space is limited. These gauges set a new standard for good-looks and function. Not only do they provide optimal viewing area for a small gauge thanks to our Face-Forward™ design, they're LED backlit with lighted pointers. In a word, they're AWESOME.

Features include:

- Clean, easy-to-read graphics
- Black dials only, with aluminum bezel (not removable)
- Clear pointer with orange back, lighted, for superior night-time visibility
- Amber, red or blue LED backlighting
- Totally sealed for all-weather use
- Easily mounted in or on dashboard or in gauge pod



Custom Pod



116216 (Lit)



116211 (Lit)



116212 (Lit)

## STEWART WARNER DIESEL PERFORMANCE TACHS

Attention diesel racers and tuners: You need Stewart Warner 6,000 rpm diesel performance tachs NOW. Yes, we know you're out there. Available in 3-3/8" or 5" diameters. The next time you're club racing at Hockenheim or just flat out racing, you'll get an edge from Stewart Warner thanks to advanced tach electronics, improved accuracy, easy-to-read graphics, and a highly visible pointer.

Features include:

- Innovative lighting scheme—backlighting and perimeter lighting which makes the pointer glow at night
- Optional LED light kits and removable bezels
- Natural complement to metric gauges and speedometers

## STEWART WARNER DIESEL PERFORMANCE TACHS—FOR SERIOUS RACERS AND TUNERS



114029





## STEWART WARNER NITROUS GAUGES

Stewart Warner nitrous gauges, from the Competition Tachs & Gauges line, are perfect for drag racing. In addition to their Face-Forward™ design (which enables the driver to easily see and read the gauge regardless of where it's mounted), they come in two sizes: 2-1/16" and 2-5/8". And, when combined with our Ultra Shift-Light™ with window switch controller—the awesome product that allows the driver to program any RPM-dependent device, such as a nitrous system, to turn on or off —there is no way you can lose!



Available in 2-1/16" & 2-5/8" diameters  
119385 Shown

Features include:

- Bold, easy-to-read graphics with reference for optimal pressure range
- Black, white or silver dials
- Front-sealed
- Ideal for use with Ultra-Shift Light™ with window switch controller

## STEWART WARNER NITROUS GAUGES AND ULTRA-SHIFT LIGHT™ WITH WINDOW SWITCH: YOU CAN'T LOSE!



See our nitrous gauge in Pat Musi's car!



Match your Stewart Warner nitrous gauge with the Ultra-Shift Light™ with Window Switch



## CUSTOMIZATION OPTIONS—COMPETITION TACHS & GAUGES AND IMPACT™ SERIES PRODUCTS

Stewart Warner Competition Tachs & Gauges and Impact™ series products can be easily customized:

- ❑ **Change lighting:** Replace standard incandescent bulbs with LED light kits. Choose from red, orange, green, blue or white LEDs. Simply remove your standard bulb and insert the LED wafer. It's that easy! (For Competition Tachs & Gauges, Impact™ series gauges.)
- ❑ **Change bezels:** Replace your gauge's bezel. Just peel off the outer bezel—it's decorative only (not structural)—and install the bezel kit. Choose from black, silver or "paintable" bezels to match the interior of your car! (For Competition Tachs & Gauges only.)
- ❑ **Gauge pods:** Choose from over 200 pods for popular cars and trucks. (For Competition Tachs & Gauges and Impact™ series gauges.)



Jolynn Viscosi's RX-7



Silver bezel



Black bezel



Custom painted bezel



Pod and bezels painted to match custom interior.



### CHANGE THE COLOR NOT THE GAUGE!

Our LED light kits allow you to change lighting colors. Look for Chameleon™, coming soon!



**Coming in 2006**—Chameleon™, a totally unique LED-based lighting system that enables your Competition Tachs & Gauges to achieve thousands of different color combinations. Chameleon™ will only be available through special promotions or in Chameleon™ gauge sets. Watch for our Chameleon™ ads or go to [www.StewartWarner.com](http://www.StewartWarner.com) for details.

## Cobra® Kit and Individual Gauges



550ABE Reverse Speedometer  
also available  
(not part of boxed kit)

### COBRA® KIT FEATURING DELUXE™ INSTRUMENTS

The original Deluxe™ Cobra® kit from Stewart Warner. Not just a copy. Sold as a kit which includes a 160 mph speedo, 8000 rpm tach, 100 psi oil pressure gauge, 280° water temp gauge, fuel gauge and voltmeter, along with sending units, mounting hardware and lighting. Everything you need to do it right. There was a reason that Shelby used Stewart Warner Deluxe™ gauges!

#### Features include:

Classic Deluxe™ graphics—bold and easy-to-read

- Polished stainless steel, low-profile bezel
- Original white pointer with black hub and tail
- Other gauges available commonly used as optional Cobra® equipment including metric scale gauges
- Optional Reverse 180 mph speedo (550ABE - reverse speedo and 411335-D - counter clockwise adapter)

### THERE'S NOTHING BETTER THAN PUTTING ORIGINAL STEWART WARNER DELUXE™ IN YOUR COBRA®!

Cobra® is a registered trademark. Stewart Warner makes no claim of endorsement.



82170



550BP



82309



82307



82303



82305

| COBRA KIT - ORDER KIT #82218                          |                         |                         |
|---|-------------------------|-------------------------|
| Included Instruments                                  | Individual Instruments* | Senders Included in Kit |
| 0-160 MPH Speedo - Mechanical                         | 550BP                   |                         |
| 0-8000 RPM Tachometer - Electric (4-, 6-, 8-cylinder) | 82170                   |                         |
| 0-100 PSI Oil Pressure - Electric                     | 82305                   | 114875                  |
| 100-280°F Water Temp - Electric                       | 82307                   | 280ED-F                 |
| 240-33.5 OhM Fuel Level                               | 82303                   | 385C-F                  |
| 10-16V Voltmeter                                      | 82309                   |                         |
| Mounting Hardware                                     | Various                 |                         |
| Light Kits  | Various                 |                         |

\* Each instrument can be purchased separately by purchasing the individual kit number listed above.

## Competition Tachs & Gauges



Team JRP's dashboard

### **We're breeding champions TODAY with Stewart Warner Competition Tachs and Gauges.**

More than ever, racers rely on Stewart Warner instruments, like 7-time ARCA Re/Max Series Champion Frank Kimmel and 2000-2004 NMCA Pro Street Champion Pat Musi. Backed by 100+ years of performance history, these gauges were designed and engineered from the ground-up with the racer in mind. Superior performance, accuracy and durability, combined with advanced lighting and electronics, allows us to deliver a solid 24-month warranty for racing conditions!

#### **Features include:**

- Highly accurate—advanced electronics and superior gauge movements
- Large, easy-to-read graphics with low-profile bezels and Face-Forward™ design enables you to see gauges from any angle at any speed!
- Totally sealed in front, plus a sealed bulb enclosure—keeps dirt and moisture out
- Bright orange-red 3-D pointer smoothly transition eye to numbers on the gauge
- Wide range of mechanical and electrical instruments
- Outer bezel is decorative and removable—optional bezel kits are available
- LED light kits also available.

**STEWART WARNER COMPETITION TACHS & GAUGES...  
PERFORMANCE YOU CAN COUNT ON!**



G.U.S.™ (114949)

## Competition Tachs & Gauges



Pat Musi



Frank Kimmel



Shane Huffman



Vincent Budano

Chuck Foreman, 2nd place finisher in class in 2005 Baja 1000: There were over 350 starters and just under 150 finished. It was the roughest race course we had seen in a long time. Every piece of mechanical equipment was pushed to the limit. The gauges held up great. The truck ran for almost 30 hours. It was nice to have gauges that you could read at a glance. **I don't know if we could have done as well as we did if we didn't have the piece of mind that Stewart Warner Gauges gave us."**



## Ultra-Shift Light Products



### Obsessed with winning? So are we.

Stewart Warner's Ultra-Shift Light™ (USL) products set a new standard in multi-purpose instrumentation for drag racing. USL products serve double duty, with an LED shift light and digital tach. Cool and fast-acting LEDs provide the ideal shift-light solution. And, the USL provides advanced electronics for superior accuracy and reliability.

### Choose the one that's right for you:

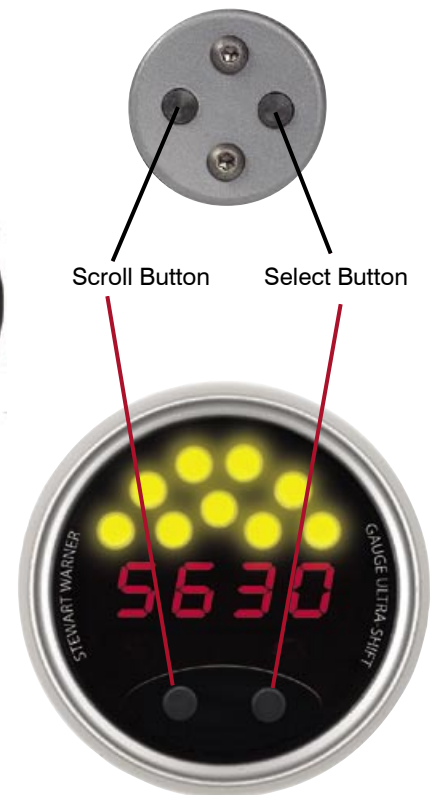
- ❑ **Ultra-Shift Light™**: Combination LED shift light with digital tach; peak RPM recall; 1-12 cylinder engine applications up to 13,000 rpm—no pills or modules required; amber, red or blue LEDs; programmable through rear of unit via two push-buttons; easy 3-wire installation.
- ❑ **Ultra-Shift Light™ with 4-Shift Technology**: Same as base USL, except that the unit can be calibrated to four shift points plus it records trap RPM; unit also measures driver reaction times from shift to shift as an indicator of consistency—an ideal feature for the hard-core drag racer.
- ❑ **Ultra-Shift Light™ with Window Switch**: Same as base USL, except that the unit features a window switch controller that allows the user to program any RPM-dependent device such as a nitrous system; includes 30 amp relay.
- ❑ **The Gauge Ultra-Shift™ (G.U.S.™)**: Same as base USL, except that we've put the unit in a compact gauge case and relocated the push-buttons to the front for easier programming. Plus, G.U.S.™ goes all the way to 18,000 rpm, making it ideal for drag bikes. And, it has four brightness levels.

### Other features:

- ❑ USL packaged in smooth, clean-looking, 1-5/8" diameter tube
- ❑ G.U.S.™ is contained in a 2-1/16" gauge—ideal for panel or pod mounting
- ❑ Adjustable brightness levels
- ❑ Tach display can be turned off
- ❑ Mounting bracket included



## Ultra-Shift Light Products



| 1-5/8" Tube                |        |        |        |
|----------------------------|--------|--------|--------|
| LED Color                  | Amber  | Blue   | Red    |
| Original (S1)(S4)(S5)      | 114906 | 114919 | 114918 |
| Paintable (S1)(S4)(S5)     | 114946 | 114948 | 114947 |
| Window Switch (S3)(S4)(S6) | 114958 | 114960 | 114959 |
| 4-Shift ((S2)(S3)(S5)      | 114926 | 114928 | 114927 |
| 2-1/16" Gauge (G.U.S.™)    |        |        |        |
| Black Bezel (S3)(S4)(S7)   | 114929 | 114931 | 114930 |
| Silver Bezel (S3)(S4)(S7)  | 114949 | 114951 | 114950 |

- S1** = Up to 13,000 RPM; 1 to 6 PPR; 3 brightness levels
- S2** = 4 peak recalls plus trap RPM
- S3** = .5 to 6 PPR; 4 brightness levels; 13,000-18,000 depending on PPR setting (i.e. .5-2 PPR=18,000 RPM; 2.5-4 PPR=15,000 RPM; 5-6 PPR=13,000 RPM)
- S4** = 1 peak recall
- S5** = Kit includes night cover, mounting hardware and installation instructions
- S6** = Kit includes 30 amp relay, night cover, mounting hardware and installation instructions
- S7** = Kit includes mounting hardware and installation instructions



Gauge Ultra-Shift™ (G.U.S.™)

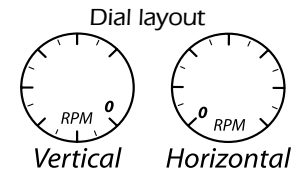


Gauge Ultra-Shift™ (G.U.S.™) is covered under U.S. patent #D509,764S and U.S. Trade Mark 2,911,026

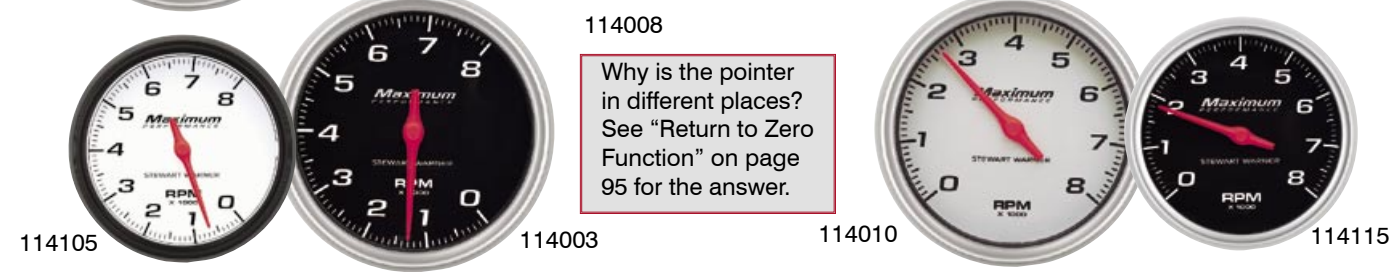
## Competition Tachs & Gauges



| TACHOMETERS                   |        |        |        |        |        |        |
|-------------------------------|--------|--------|--------|--------|--------|--------|
| TYPE/range                    | Silver |        | Black  |        | White  |        |
|                               | 5"     | 3-3/8" | 5"     | 3-3/8" | 5"     | 3-3/8" |
| <b>11,000 RPM</b>             |        |        |        |        |        |        |
| Memory/Shift Light - V - (T1) | 114013 | -      | 114012 | -      | 114014 | -      |
| <b>10,000 RPM</b>             |        |        |        |        |        |        |
| Standard - V - (T3)           | 114001 | 114101 | 114000 | 114100 | 114002 | 114102 |
| Standard - H - (T3)           | 114007 | 114107 | 114006 | 114106 | 114008 | 114108 |
| Memory/Shift Light - V - (T1) | -      | 114110 | -      | 114109 | -      | 114111 |
| Memory/Shift Light - H - (T2) | 114019 | 114113 | 114018 | 114112 | 114020 | 114114 |
| Memory - H - (T4)             | 114025 | -      | 114024 | -      | 114026 | -      |
| <b>9,000 RPM</b>              |        |        |        |        |        |        |
| Memory/Shift Light - V - (T1) | 114016 | -      | 114015 | -      | 114017 | -      |
| <b>8,000 RPM</b>              |        |        |        |        |        |        |
| Standard - V - (T3)           | 114004 | 114104 | 114003 | 114103 | 114005 | 114105 |
| Standard - H - (T3)           | 114010 | 114116 | 114009 | 114115 | 114011 | 114117 |
| <b>6,000 RPM</b>              |        |        |        |        |        |        |
| Diesel - H (t5)               | 114028 | 114031 | 114027 | 114030 | 114129 | 114032 |



114025



Why is the pointer in different places? See "Return to Zero Function" on page 95 for the answer.

**V** = Vertical dial orientation; **H** = Horizontal dial orientation  
**T1** - 1 to 6 PPR applications; 5" include external LED shift light; 3-3/8" shift light LED on dial face; program via control module  
**T2** - LED shift light is optional; program via control module  
**T3** - 2 to 6 PPR applications, set via dip switches on rear of tach  
**T4** - 2, 3, 4 & 6 PPR applications; ; set via dip switches on rear of tach; no microprocessor; complies with NASCAR circle track rules  
**T4** - Alternator application.

**Kits include:** mounting strap & in-dash mounting bracket with required hardware, incandescent bulb with socket; red & green light boots; installation instructions; external LED shift light as indicated; remote control module included with 3-3/8" memory tachometers





## Competition Tachs & Gauges More than just racing!



Jeremy Varner's award-winning Cavalier (NOPI Class Winner)



Custom '57 Chevy—Inciner8or by Tommy Aloha



Kid Rock's Lincoln w/custom dash & Stewart Warner gauges



Bob Mull's award-winning EVILZ (HIN champion)



BMW's Mini Cooper S gauge package (sold through BMW)



Stewart Warner gauges in '06 Mustang. Pod by MRT  
(mustangracing.com)

# COMPETITION TACHS & GAUGES

## Competition Tachs & Gauges

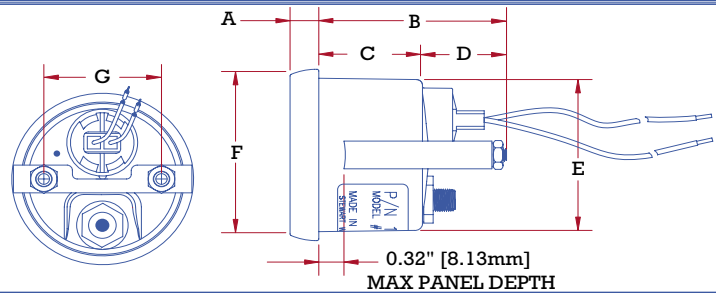


| 2-1/16"                            |        |        | MECHANICAL                        | 2-5/8" |        |        |
|------------------------------------|--------|--------|-----------------------------------|--------|--------|--------|
| SILVER                             | BLACK  | WHITE  | TYPE/RANGE                        | SILVER | BLACK  | WHITE  |
| <b>AIR PRESSURE</b>                |        |        |                                   |        |        |        |
| 114549                             | 114548 | 114550 | Air Pressure 0-150 psi (M1)       | 114552 | 114551 | 114553 |
| <b>BOOST &amp; BLOWER PRESSURE</b> |        |        |                                   |        |        |        |
| 114531                             | 114530 | 114532 | Blower Press 0-100 psi (M1)       | 114534 | 114533 | 114535 |
| 114374                             | 114373 | 114375 | Boost Press 0-15 psi (M1)         | -      | -      | -      |
| 114377                             | 114376 | 114378 | Boost Press 0-30 psi (M1)         | -      | -      | -      |
| 114525                             | 114524 | 114526 | Boost Press 0-60 psi (M1)         | 114528 | 114527 | 114529 |
| 114386                             | 114385 | 114387 | Boost Press 0-100 psi (M1)        | -      | -      | -      |
| <b>FUEL PRESSURE</b>               |        |        |                                   |        |        |        |
| 114501                             | 114500 | 114502 | Fuel Press 0-15 psi (M2)          | 114504 | 114503 | 114505 |
| 114383                             | 114382 | 114384 | Fuel Press 0-30 psi (M2)          | -      | -      | -      |
| 114507                             | 114506 | 114508 | Fuel Press 0-60 psi (M2)          | 114510 | 114509 | 114511 |
| 114513                             | 114512 | 114514 | Fuel Press 0-100 psi (M2)         | 114516 | 114515 | 114517 |
| <b>NITROUS PRESSURE</b>            |        |        |                                   |        |        |        |
| 119384                             | 119383 | 119385 | Nitrous Press 0-1500 psi          | 119602 | 119601 | 119603 |
| <b>OIL PRESSURE</b>                |        |        |                                   |        |        |        |
| 114519                             | 114518 | 114520 | Oil Press 0-100 psi (M1)          | 114522 | 114521 | 114523 |
| 114389                             | 114388 | 114390 | Oil Press 0-150 psi (M1)          | 114392 | 114391 | 114393 |
| <b>OIL TEMPERATURE</b>             |        |        |                                   |        |        |        |
| 116306                             | -      | -      | Oil Temp 140-320°F/2' cap (M3)    | -      | -      | -      |
| 114567                             | 114566 | 114568 | Oil Temp 140-320°F/6' cap (M3)    | 114570 | 114569 | 114571 |
| 116301                             | 116300 | 116302 | Oil Temp 140-320°F/8' cap (M3)    | 116304 | 116303 | 116305 |
| 114573                             | 114572 | 114574 | Oil Temp 140-320°F/12' cap (M3)   | 114576 | 114575 | 114577 |
| <b>PRESSURE</b>                    |        |        |                                   |        |        |        |
| 114307                             | 114306 | 114308 | Press 0-200 psi (M1)              | 114310 | 114309 | 114311 |
| 114313                             | 114312 | 114314 | Press 0-300 psi (M1)              | 114316 | 114315 | 114317 |
| <b>TRANSMISSION TEMPERATURE</b>    |        |        |                                   |        |        |        |
| 114579                             | 114578 | 114580 | Trans Temp 140-320°F/9' cap (M3)  | 114582 | 114581 | 114583 |
| <b>VACUUM</b>                      |        |        |                                   |        |        |        |
| 114301                             | 114300 | 114302 | Vacuum 0-30 inHg (M1)             | 114304 | 114303 | 114305 |
| <b>VAC/BOOST PRESSURE</b>          |        |        |                                   |        |        |        |
| 114537                             | 114536 | 114538 | Vac/Boost Press 30Hg/15psi (M1)   | 114540 | 114539 | 114541 |
| 114380                             | 114379 | 114381 | Vac/Boost Press 30Hg/25psi (M1)   | -      | -      | -      |
| 114543                             | 114542 | 114544 | Vac/Boost Press 30Hg/40psi (M1)   | 114546 | 114545 | 114547 |
| <b>WATER PRESSURE</b>              |        |        |                                   |        |        |        |
| 114585                             | 114584 | 114586 | Water Press 0-15 psi (M4)         | 114588 | 114587 | 114589 |
| 114591                             | 114590 | 114592 | Water Press 0-35 psi (M4)         | 114594 | 114593 | 114595 |
| <b>WATER TEMPERATURE</b>           |        |        |                                   |        |        |        |
| 114555                             | 114554 | 114556 | Water Temp 100-260°F/6' cap (M3)  | 114558 | 114557 | 114559 |
| 114395                             | 114394 | 114396 | Water Temp 100-260°F/8' cap (M3)  | 114398 | 114397 | 114399 |
| 114561                             | 114560 | 114562 | Water Temp 100-260°F/12' cap (M3) | 114564 | 114563 | 114565 |

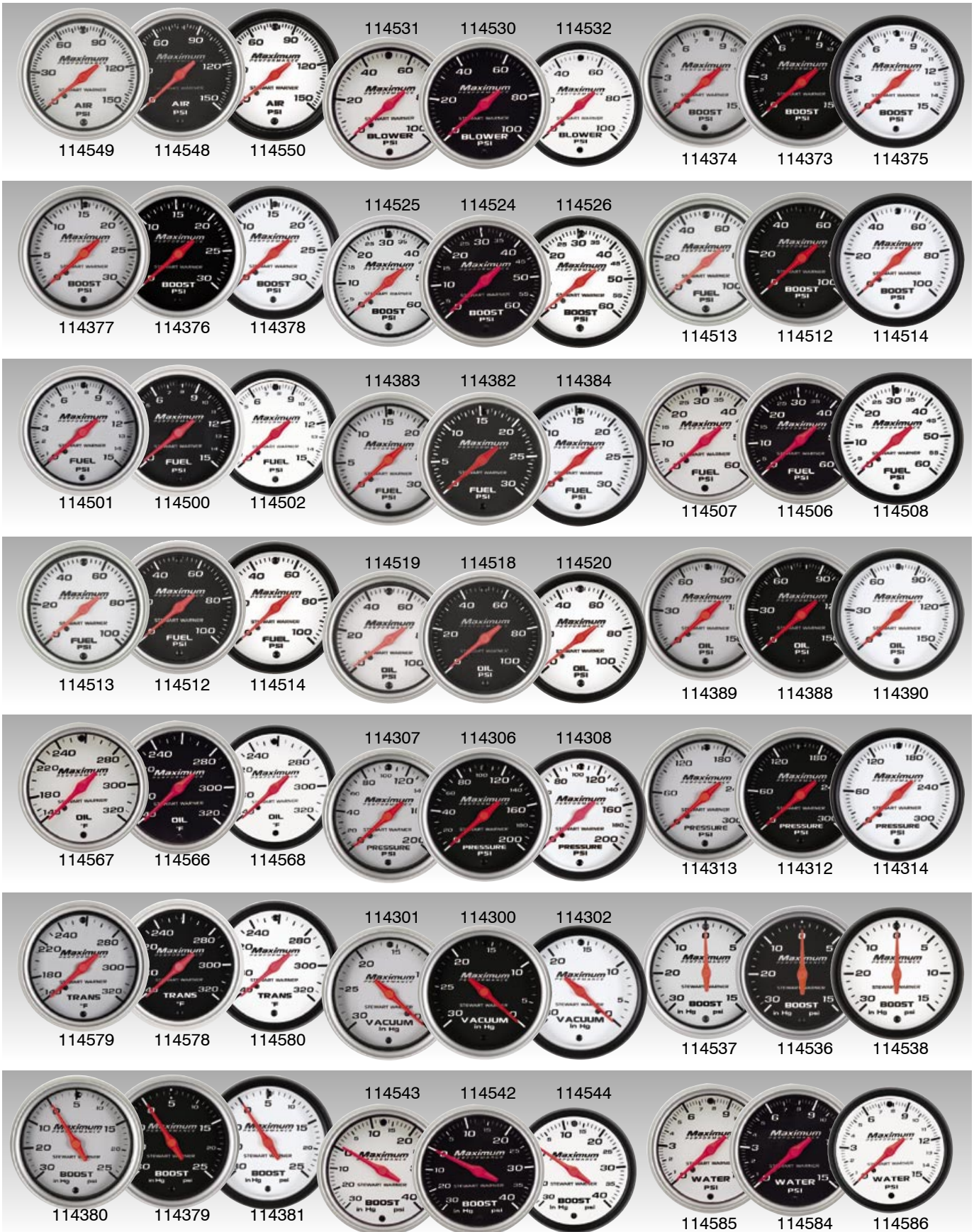


**M1** - Includes 6 ft. nylon tubing & 1/8" NPT fitting & 1/4" NPT adaptor fitting.  
**M2** - Must be mounted outside passenger compartment. Mounting cups & stainless steel braided hose available.  
**M3** - Includes 1/2" NPT busing; additional adaptors are available.  
**Kits include:** mounting bracket and hardware, incandescent bulb and socket; red & green light boots; installation instructions; additional items if listed in notes

|                    | 2-1/16"                            | 2-5/8"                           |
|--------------------|------------------------------------|----------------------------------|
| A                  | 0.37" (9.40mm)                     | 0.37" (38.10mm)                  |
| B                  | 2.31" (58.67mm)                    | 2.31" (58.67mm)                  |
| C                  | 1.60" (40.64mm)                    | 1.60" (40.64mm)                  |
| D                  | 0.71" (18.03mm)                    | 0.71" (18.03mm)                  |
| E                  | 2.04" (51.82mm)                    | 2.57" (65.28mm)                  |
| F                  | 2.18" (55.37mm)                    | 2.74" (69.60mm)                  |
| G                  | 1.50" (38.10mm)                    | 2.00" (50.80mm)                  |
| Min. Panel Cut Out | 2.098" +/- .02 (53.298mm +/- .508) | 2.603" +/- .02 (66.116 +/- .508) |



## Competition Tachs & Gauges



## Competition Tachs & Gauges



| 2-1/16"                              |        |        | ELECTRIC                     | 2-5/8" |        |        |
|--------------------------------------|--------|--------|------------------------------|--------|--------|--------|
| SILVER                               | BLACK  | WHITE  | TYPE/RANGE                   | SILVER | BLACK  | WHITE  |
| <b>AIR/FUEL RATIO</b>                |        |        |                              |        |        |        |
| 114901                               | 114900 | 114902 | Air/Fuel Ratio (E1)          | 114904 | 114903 | 114905 |
| <b>EXHAUST TEMPERATURE/PYROMETER</b> |        |        |                              |        |        |        |
| 114401                               | 114400 | 114402 | Exhaust Temp 200-1600°F (E2) | -      | -      | -      |
| 114407                               | 114406 | 114408 | Exhaust Temp 600-2200°F (E2) | -      | -      | -      |
| <b>FUEL LEVEL</b>                    |        |        |                              |        |        |        |
| 114225                               | 114224 | 114226 | Fuel Level 0-90 Ohm          | 114228 | 114227 | 114229 |
| 114231                               | 114230 | 114232 | Fuel Level 73-10 Ohm         | 114234 | 114233 | 114235 |
| 114237                               | 114236 | 114238 | Fuel Level 240-33.5 Ohm (E2) | 114240 | 114239 | 114241 |
| 114249                               | 114248 | 114250 | Fuel Level 16-158 Ohm        | 114252 | 114251 | 114253 |
| <b>FUEL PRESSURE</b>                 |        |        |                              |        |        |        |
| 114213                               | 114212 | 114214 | Fuel Press 0-15 psi (E3)     | 114216 | 114215 | 114217 |
| 114219                               | 114218 | 114220 | Fuel Press 0-100 psi (E3)    | 114222 | 114221 | 114223 |
| <b>OIL PRESSURE</b>                  |        |        |                              |        |        |        |
| 114255                               | 114254 | 114256 | Oil Press 0-100 psi (E3)     | 114258 | 114257 | 114259 |
| <b>OIL TEMPERATURE</b>               |        |        |                              |        |        |        |
| 114267                               | 114266 | 114268 | Oil Temp 140-320°F (E4)      | 114270 | 114269 | 114271 |
| <b>TRANSMISSION TEMPERATURE</b>      |        |        |                              |        |        |        |
| 114285                               | 114284 | 114286 | Trans. Temp 140-320°F (E4)   | 114288 | 114287 | 114289 |
| <b>VOLTMETER</b>                     |        |        |                              |        |        |        |
| 114201                               | 114200 | 114202 | Voltmeter 8-18V              | 114204 | 114203 | 114205 |
| <b>WATER TEMPERATURE</b>             |        |        |                              |        |        |        |
| 114273                               | 114272 | 114274 | Water Temp 100-260°F (E4)    | 114276 | 114275 | 114277 |

**E1** - 0-1 volt input - connect to OEM sensor

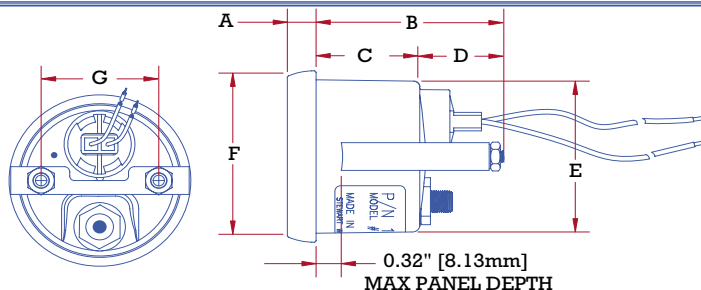
**E2** - Sender/sensor or probe available separately; see accessories.

**E3** - Includes pressure sender with 1/8" NPT port and 1/4" NPT adaptor fitting.

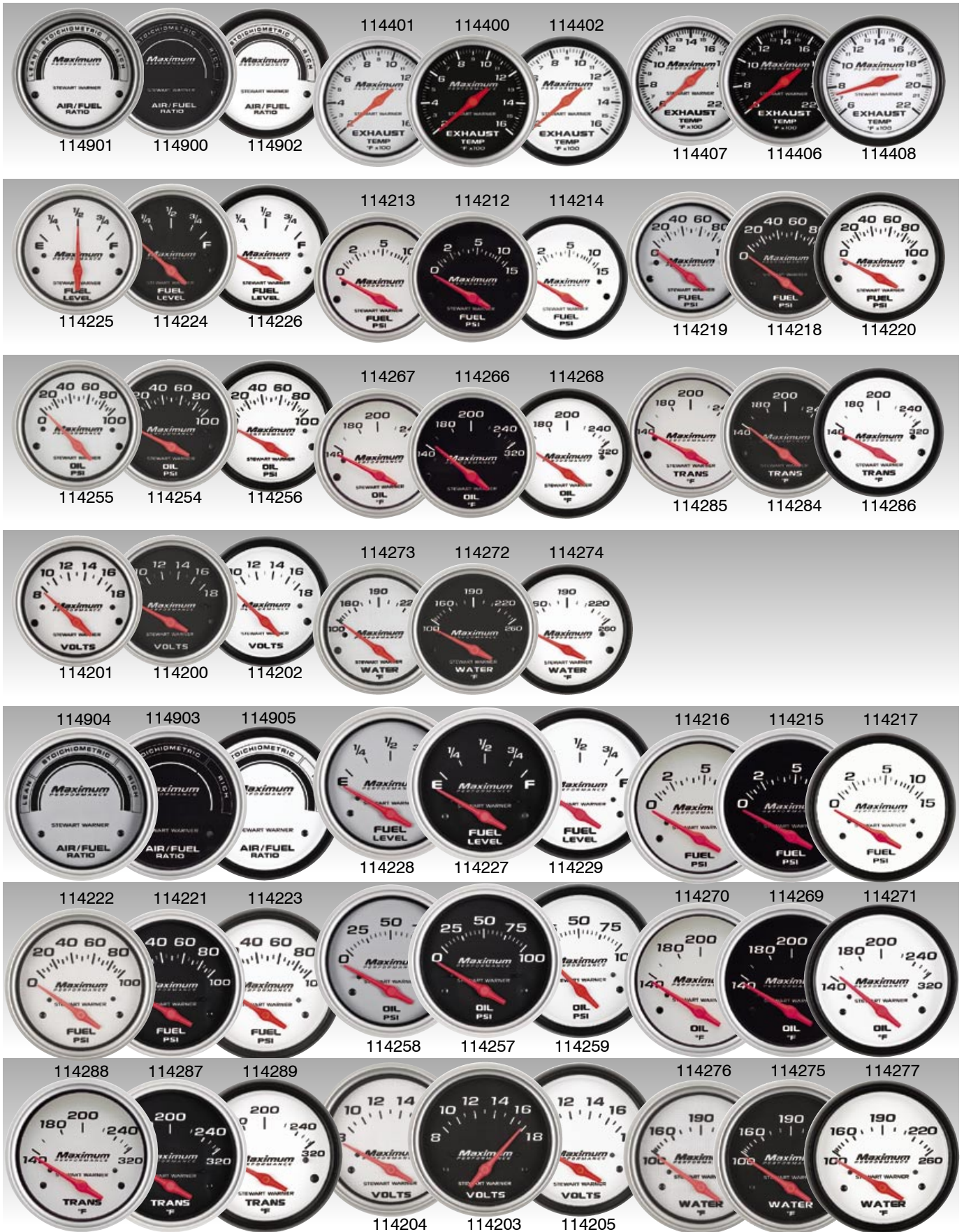
**E4** - Includes 1/8" NPT temperature sender and 3/8" & 1/2" NPT adaptor fittings.

**Kits include:** mounting bracket and hardware, incandescent bulb and socket; red & green light boots; installation instructions; additional items if listed in notes

|                    | 2-1/16"                               | 2-5/8"                              |
|--------------------|---------------------------------------|-------------------------------------|
| A                  | 0.37" (9.40mm)                        | 0.37" (38.10mm)                     |
| B                  | 2.31" (58.67mm)                       | 2.31" (58.67mm)                     |
| C                  | 1.60" (40.64mm)                       | 1.60" (40.64mm)                     |
| D                  | 0.71" (18.03mm)                       | 0.71" (18.03mm)                     |
| E                  | 2.04" (51.82mm)                       | 2.57" (65.28mm)                     |
| F                  | 2.18" (55.37mm)                       | 2.74" (69.60mm)                     |
| G                  | 1.50" (38.10mm)                       | 2.00" (50.80mm)                     |
| Min. Panel Cut Out | 2.098" +/- .02<br>(53.298mm +/- .508) | 2.603" +/- .02<br>(66.116 +/- .508) |



## Competition Tachs & Gauges



## Competition Tachs & Gauges



114623

Remote reset switch included with all SWP speedometers. Used for calibration/recalibration as well as accessing the two trip functions.

| PROGRAMMABLE SPEEDOMETERS |        |        |        |        |        |        |
|---------------------------|--------|--------|--------|--------|--------|--------|
| Range                     | Silver |        | Black  |        | White  |        |
|                           | 5"     | 3-3/8" | 5"     | 3-3/8" | 5"     | 3-3/8" |
| 120 MPH (P1)              | -      | 114701 | -      | 114700 | -      | 114702 |
| 160 MPH (P1)              | 114710 | 114704 | 114709 | 114703 | 114711 | 114705 |
| 200 MPH (P1)              | -      | 114707 | -      | 114706 | -      | 114708 |
| 260 KPH (P2)              | 114716 | 114713 | 114715 | 114712 | 114717 | 114714 |

**P1** - Calibrate/recalibrate using remote reset switch and the drive "1 mile" method

**P2** - Calibrate/recalibrate using remote reset switch and the drive "1 kilometer" method

**Kits include:** remote reset switch; mounting strap & in-dash mounting bracket with required hardware, incandescent bulb with socket; red & green light boots; installation instructions

3-3/8" Speedometer

5" Speedometer

**With our Competition lines speedometers, if you change tire size or gearing, all you have to do is recalibrate the speedometer using the reset switch and drive a measured mile.**

| 1-1/2" ELECTRIC GAUGES     |                    |        |        |
|----------------------------|--------------------|--------|--------|
| RANGE/TYPE (LED Color)     | 1-1/2" BLACK DIALS |        |        |
|                            | AMBER              | BLUE   | RED    |
| Fuel Level 240-33.5 (E2)   | 116218             | 116220 | 116219 |
| Fuel Press 0-15 psi (E3)   | 116212             | 116214 | 116213 |
| Fuel Press 0-100 psi (E3)  | 116215             | 116217 | 116216 |
| Oil Press 0-100 psi (E3)   | 116209             | 116211 | 116210 |
| Oil Temp 140-320°F (E4)    | 116203             | 116205 | 116204 |
| Trans. Temp 100-280°F (E4) | 116206             | 116208 | 116207 |
| Voltmeter 8-18V            | 116221             | 116223 | 116222 |
| Water Temp 100-260°F (E4)  | 116200             | 116202 | 116201 |

**E2** - Sender/sensor or probe available separately; see accessories.

**E3** - Includes pressure sender with 1/8" NPT port and 1/4" NPT adaptor fitting.

**E4** - Includes 1/8" NPT temperature sender and 3/8" & 1/2" NPT adaptor fittings.

**Kits include:** mounting bracket and hardware, installation instructions; additional items if listed in notes

Stewart Warner's electric "mini" gauges, from the Competition Tachs and Gauges line, are only 1-1/2" in diameter, making them ideal for cars where space is limited.



Wiring is the same as for full sized electric gauges.



Unlit      116218      116220      116219



Unlit      116212      116214      116213

## Competition Tachs & Gauges



114701      114700      114702



114704      114703      114705



114707      114706      114708



114713      114712      114714



114710      114709      114711



Unlit      116215      116217      116216



Unlit      116206      116208      116207



Unlit      116209      116211      116210



Unlit      116221      116223      116222



Unlit      116203      116205      116204



Unlit      116200      116202      116201

## Competition Tachs & Gauges - Metric

| TACHOMETERS                   |        |        |        |        |        |        |
|-------------------------------|--------|--------|--------|--------|--------|--------|
| TYPE/RANGE                    | SILVER |        | BLACK  |        | WHITE  |        |
|                               | 5"     | 3-3/8" | 5"     | 3-3/8" | 5"     | 3-3/8" |
| <b>11,000 RPM</b>             |        |        |        |        |        |        |
| Memory/Shift Light - V - (T1) | 114013 | -      | 114012 | -      | 114014 | -      |
| <b>10,000 RPM</b>             |        |        |        |        |        |        |
| Standard - V - (T3)           | 114001 | 114101 | 114000 | 114100 | 114002 | 114102 |
| Standard - H - (T3)           | 114007 | 114107 | 114006 | 114106 | 114008 | 114108 |
| Memory/Shift Light - V - (T1) | -      | 114110 | -      | 114109 | -      | 114111 |
| Memory/Shift Light - H - (T2) | 114019 | 114113 | 114018 | 114112 | 114020 | 114114 |
| Memory - H - (T4)             | 114025 | -      | 114024 | -      | 114026 | -      |
| <b>9,000 RPM</b>              |        |        |        |        |        |        |
| Memory/Shift Light - V - (T1) | 114016 | -      | 114015 | -      | 114017 | -      |
| <b>8,000 RPM</b>              |        |        |        |        |        |        |
| Standard - V - (T3)           | 114004 | 114104 | 114003 | 114103 | 114005 | 114105 |
| Standard - H - (T3)           | 114010 | 114116 | 114009 | 114115 | 114011 | 114117 |
| <b>6,000 RPM</b>              |        |        |        |        |        |        |
| Diesel - H (t5)               | 114028 | 114031 | 114027 | 114030 | 114129 | 114032 |

**V** = Vertical dial orientation; **H** = Horizontal dial orientation

**T1** - 1 to 6 PPR applications; 5" include LED shift light; 3-3/8" shift light LED on dial face; program via control module

**T2** - LED shift light is optional; program via control module

**T3** - 2 to 6 PPR applications, set via dip switches on rear of tach

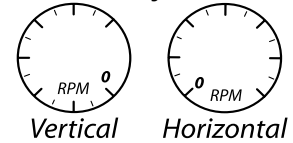
**T4** - 2, 3, 4 & 6 PPR applications; ; set via dip switches on rear of tach; no microprocessor; complies with NASCAR circle track rules

**T5** - Alternator application.

**Kits include:** mounting strap, in-dash mounting bracket, light kit with socket; red & green light boots; installation instructions; external LED shift light if indicated; remote control module included with 3-3/8" memory tachometers



Dial layout



114015



114029

| MECHANICAL GAUGES                 |         |        |        |
|-----------------------------------|---------|--------|--------|
| TYPE/RANGE                        | 2-1/16" |        |        |
|                                   | SILVER  | BLACK  | WHITE  |
| <b>AIR PRESSURE</b>               |         |        |        |
| Air Pressure 10 Bar (M1)          | 114340  | 114339 | 114341 |
| <b>BOOST PRESSURE</b>             |         |        |        |
| Boost Press 4 Bar (M1)            | 114331  | 114330 | 114332 |
| <b>FUEL PRESSURE</b>              |         |        |        |
| Fuel Press 1 Bar (M2)             | 114319  | 114318 | 114320 |
| Fuel Press 4 Bar (M2)             | 114322  | 114321 | 114323 |
| Fuel Press 7 Bar (M2)             | 114325  | 114324 | 114326 |
| <b>OIL PRESSURE</b>               |         |        |        |
| Oil Press 7 Bar (M1)              | 114328  | 114327 | 114329 |
| <b>OIL TEMPERATURE</b>            |         |        |        |
| Oil Temp 60-160°C/1.8m cap (M3)   | 114346  | 114345 | 114347 |
| <b>VAC/BOOST PRESSURE</b>         |         |        |        |
| Vac/Boost Press 80cmHg/1 Bar (M1) | 114334  | 114333 | 114335 |
| Vac/Boost Press 80cmHg/3 Bar (M1) | 114337  | 114336 | 114338 |
| <b>WATER TEMPERATURE</b>          |         |        |        |
| Water Temp 40-130°C/1.8m cap (M3) | 114343  | 114342 | 114344 |

**M1** - Includes 1.8m nylon tubing & 1/8" NPT fitting & 1/4" NPT adaptor fitting.

**M2** - Must be mounted outside passenger compartment. Mounting cups & stainless steel braided hose available.

**M3** - Includes 1/2" NPT busing; additional adaptors are available.

**Kits include:** mounting bracket and hardware, incandescent bulb and socket; red & green light boots; installation instructions; additional items if listed in notes



114340



114330



114320



114322



114324



114329



114346



114338



114333



114342



## Competition Tachs & Gauges - Metric



114713



114712



114714

| PROGRAMMABLE SPEEDOMETERS |        |        |        |        |        |        |
|---------------------------|--------|--------|--------|--------|--------|--------|
|                           | SILVER |        | BLACK  |        | WHITE  |        |
| RANGE                     | 5"     | 3-3/8" | 5"     | 3-3/8" | 5"     | 3-3/8" |
| 260 KPH (P2)              | 114716 | 114713 | 114715 | 114712 | 114717 | 114714 |

**P2** - Calibrate/recalibrate using remote reset switch and the drive "1 KM" method  
**Kits include:** remote reset switch; mounting strap & in-dash mounting bracket with required hardware, incandescent bulb with socket; red & green light boots; installation instructions



Remote reset switch included with all SWP speedometers. Used for calibration/recalibration as well as accessing the two trip functions.



114901



114403



114226



114207



114209



114262



114264



114202

| ELECTRIC GAUGES                                  |         |        |        |
|--|---------|--------|--------|
| TYPE/RANGE                                       | 2-1/16" |        |        |
|  | SILVER  | BLACK  | WHITE  |
| <b>AIR/FUEL RATIO</b>                            |         |        |        |
| Air/Fuel Ratio (E1)                              | 114901  | 114900 | 114902 |
| <b>EXHAUST TEMPERATURE/PYROMETER (270° Dial)</b> |         |        |        |
| Exhaust Temp 300-1200°C (E2)                     | 114404  | 114403 | 114405 |
| <b>FUEL LEVEL</b>                                |         |        |        |
| Fuel Level 0-90 Ohm                              | 114225  | 114224 | 114226 |
| Fuel Level 73-10 Ohm                             | 114231  | 114230 | 114232 |
| Fuel Level 240-33.5 Ohm (E2)                     | 114237  | 114236 | 114238 |
| Fuel Level 16-158 Ohm                            | 114249  | 114248 | 114250 |
| <b>FUEL PRESSURE</b>                             |         |        |        |
| Fuel Press 1 Bar (E3)                            | 114207  | 114206 | 114208 |
| Fuel Press 7 Bar (E3)                            | 114210  | 114209 | 114211 |
| <b>OIL PRESSURE</b>                              |         |        |        |
| Oil Press 7 Bar (E3)                             | 114261  | 114260 | 114262 |
| <b>OIL TEMPERATURE</b>                           |         |        |        |
| Oil Temp 60-160°C (E4)                           | 114264  | 114263 | 114265 |
| <b>TRANSMISSION TEMPERATURE</b>                  |         |        |        |
| Trans. Temp 60-160°C (E4)                        | 114282  | 114281 | 114283 |
| <b>VOLTMETER</b>                                 |         |        |        |
| Voltmeter 8-18V                                  | 114201  | 114200 | 114202 |
| <b>WATER TEMPERATURE</b>                         |         |        |        |
| Water Temp 40-130°C (E4)                         | 114279  | 114278 | 114280 |

**E1** - 0-1 volt input - connect to OEM sensor

**E2** - Sender/sensor or probe available separately; see accessories.

**E3** - Includes pressure sender with 1/8" NPT port and 1/4" NPT adaptor fitting.

**E4** - Includes 1/8" NPT temperature sender and 3/8" & 1/2" NPT adaptor fittings.

**Kits include:** mounting bracket and hardware, incandescent bulb and socket; red & green light boots; installation instructions; additional items if listed in notes



**The gauge that set the standard: Original Stewart Warner Deluxe™**

For over 40 years, Stewart Warner Deluxe™ instruments have set the standard for automotive gauges, with a classic and timeless look that includes the famous SW block logo—your symbol of excellence! From the first Shelys to Daytonas to muscle cars and street rods, Deluxe™ gets the job done. And, it remains our most popular line!

**Features include:**

- ❑ Bold, easy-to-read, black-on-white graphics that tell you right away it's a Stewart Warner Deluxe™ gauge!
- ❑ Polished stainless steel, low-profile bezel
- ❑ Original white pointer with black hub
- ❑ Wide range of mechanical and electrical instruments
- ❑ 2-5/8" gauges also available



**Deluxe™: The standard for over 40 years!**



# Deluxe™ : Tachometers & Speedometers



| Type        | Range      | 3-3/8"   |        | Note:                      | Additional Kit Needed:               |
|-------------|------------|----------|--------|----------------------------|--------------------------------------|
|             |            | Mech     | Elec   |                            |                                      |
| Speedometer | 0-120 MPH  | -        | 82896  | Programmable/Odometer      | 82527 or 82646                       |
|             | 0-160 MPH  | 550BP-D  | -      |                            |                                      |
|             | 180-0 MPH  | 550ABE   | -      | Counter Clockwise/Odometer | 411335-D (counter clockwise adapter) |
|             | 0-140 KPH  | 82697    | -      | Programmable/Odometer      |                                      |
|             | 0-140 KPH  | -        | 82656  | Programmable/Odometer      | 114878 or 82646                      |
| Tachometers | 5,000 RPM  | 551AKM-D | -      | .5:1 Ratio                 |                                      |
|             | 9,000 RPM  | 535AH-D  | -      | .5:0 Ratio                 |                                      |
|             | 6,000 RPM  | -        | 82162B | 4-, 6-, 8-Cyl              |                                      |
|             | 6,000 RPM  | -        | 82162  | 4-, 6-, 8-Cyl; 12 Pole     |                                      |
|             | 8,000 RPM  | -        | 82170  | 4-, 6-, 8-Cyl; 12 Pole     |                                      |
|             | 8,000 RPM  | -        | 82163  | 4-, 8-, 12-Cyl; 20 Pole    |                                      |
| <b>5"</b>   |            |          |        |                            |                                      |
| Speedometer | 0-160 MPH  | -        | 82698  | Programmable/Odo           | 114878 or 82646                      |
| Tachometer  | 10,000 RPM | -        | 82699  | Ignition coil              |                                      |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders separately.



550ABE  
Reverse speedometer



82162B



82162B



82170



82692

## Deluxe™ : 2-5/8" Gauges



| Type              | Range      | 2-5/8"    |       | Note:          | Additional Kit Needed:                      |
|-------------------|------------|-----------|-------|----------------|---|
|                   |            | Mech      | Elec  |                |   |
| Air Pressure      | 10-100 psi | 82408     | -     |                | 114840 (6 ft. tube) or 114841 (16 ft. tube) |
| Ammeter           | 60-0-60    | -         | 82404 | Internal Shunt |   |
| Fuel Level        | 240 Ohm    | -         | 82413 |                |   |
| Fuel Pressure     | 1-15 psi   | 82405     | -     |                | 114840 (6 ft. tube) or 114841 (16 ft. tube) |
| Oil Pressure      | 5-100 psi  | 82406     | -     |                | 114840 (6 ft. tube) or 114841 (16 ft. tube) |
|                   | 10-100 psi | 82407     | -     |                |   |
| Oil Temperature   | 140-325°F  | 82410-60  | -     | 60" capillary  |   |
|                   | 140-325°F  | 82410-72  | -     | 72" capillary  |   |
|                   | 140-325°F  | 82410-96  | -     | 96" capillary  |   |
| Water Temperature | 100-265°F  | 82409-60  | -     | 60" capillary  |   |
|                   | 100-265°F  | 82409-72  | -     | 72" capillary  |   |
|                   | 100-265°F  | 82409-144 | -     | 144" capillary |   |
| Vacuum            | 0-30 Hg    | 82411     | -     |                | 114842                                      |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders, tubing or shunts separately.

| 2-5/8" DELUXE™ CHROME PANEL                          |                                      |             |            |   |
|--|--------------------------------------|-------------|------------|---|
| Panel/Type   | Range(s)                             | Kit Number: | Notes:     | Also Included in Kit:                                   |
| <b>Triple Panel</b>                                  |                                      |             |            |   |
| Fuel Pressure/<br>Oil Pressure/<br>Water Temperature | 1-15 psi/<br>5-100 psi/<br>100-265°F | 82221       | Mechanical | 2 ea. of 6 ft. tubing kit<br>72" cap. on Water Temp ga. |

Kits includes: Mounting panel and hardware, light kit installation instructions and additional accessories as indicated above.



82309



82307



82303



82304



82322



82308



82327-72



82323



82329



82328



82311



82306



82326



82305

## Deluxe™ : 2-1/16" Gauges



| Type               | Range      | 2-1/16"   |       | Note:          | Additional Kit Needed:   |
|--------------------|------------|-----------|-------|----------------|--|
|                    |            | Mech      | Elec  |                |  |
| Air Pressure       | 10-150 psi | 82329     | -     |                | 114840 (6 ft. tube) or<br>114841 (16 ft. tube)   |
|                    | 0-150 psi  | -         | 82346 |                | 279C   |
| Ammeter            | 30-0-30    | -         | 82310 | Internal Shunt |  |
|                    | 60-0-60    | -         | 82311 | Internal Shunt |  |
|                    | 100-0-100  | -         | 82313 | Internal Shunt |  |
|                    | 100-0-100  | -         | 82343 | Reqs. Shunt    | 407616   |
| Boost              | 0-30/0-15  | 82340     | -     | Red Pointer    |  |
| Exhaust Temp       | 300-1500°F | -         | 82335 |                | See probes Page 53   |
| Fuel Level         | 240 Ohm    | -         | 82303 |                | Senders Page 48  |
|                    | 90 Ohm     | -         | 82341 |                | Senders Page 48  |
|                    | 73 Ohm     | -         | 82342 |                | Use OE sender  |
| Fuel Pressure      | 0-16 psi   | -         | 82333 |                | 114874   |
|                    | 1-10 psi   | 82319     | -     |                | Use braided stainless<br>steel hose. Gauge must<br>be mounted outside pas-<br>senger compartment |
|                    | 2-30 psi   | 82320     | -     |                |  |
|                    | 10-200 psi | 82325     | -     |                |  |
| Manifold Pressure  | 2-30 psi   | 82321     | -     |                |  |
| Oil Pressure       | 0-80 psi   | -         | 82304 |                | 279A   |
|                    | 0-100 psi  | -         | 82305 |                | 114875   |
|                    | 5-80 psi   | 82322     | -     |                | 114840 (6 ft. tube) or<br>114841 (16 ft. tube)   |
|                    | 5-100 psi  | 82323     | -     |                |  |
|                    | 10-200 psi | 82324     | -     |                |  |
| Oil Temperature    | 100-280°F  | -         | 82115 |                | 280ED-F  |
|                    | 140-320°F  | -         | 82308 |                | 280EE-F  |
|                    | 140-325°F  | 82327-60  | -     | 60" capillary  |  |
|                    | 140-325°F  | 82327-72  | -     | 72" capillary  |  |
|                    | 140-325°F  | 82327-96  | -     | 96" capillary  |  |
|                    | 140-325°F  | 82327-144 | -     | 144" capillary |  |
| Trans. Temperature | 150-325°F  | -         | 82344 |                | 280EE-F  |
| Water Temperature  | 100-240°F  | -         | 82306 |                | 280EA  |
|                    | 100-280°F  | -         | 82307 |                | 280ED-F  |
|                    | 100-265°F  | 82326-60  | -     | 60" capillary  |  |
|                    | 100-265°F  | 82326-72  | -     | 72" capillary  |  |
|                    | 100-265°F  | 82326-96  | -     | 96" capillary  |  |
|                    | 100-265°F  | 82326-120 | -     | 120" capillary |  |
|                    | 100-265°F  | 82326-144 | -     | 144" capillary |  |
| Vacuum             | 0-30Hg     | 82328     | -     |                | 114842   |
| Voltmeter          | 10-16V     | -         | 82309 | Color Band     |  |
|                    | 10-16V     | -         | 82391 | Color Band     |  |
|                    | 20-32V     | -         | 82347 | Color Band     |  |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders, tubing or shunts separately.

## Deluxe™ : Metric



| Type              | Range       | 2-1/16"   |       | Note:          | Additional Kit Needed:                         |
|-------------------|-------------|-----------|-------|----------------|--|
|                   |             | Mech      | Elec  |                |  |
| Air Pressure      | 70-1000 kPa | 82393     |       |                | 114840 (6 ft. tube) or<br>114841 (16 ft. tube) |
|                   | 0-1000 kPa  |           | 82388 |                | 279C   |
| Ammeter           | 30-0-30     |           | 82310 | Internal Shunt |  |
|                   | 60-0-60     |           | 82311 | Internal Shunt |  |
|                   | 100-0-100   |           | 82313 | Internal Shunt |  |
|                   | 100-0-100   |           | 82343 | Reqs. Shunt    | 407616   |
| Fuel Level        | 240 Ohm     |           | 82303 |                | 114876   |
|                   | 90 Ohm      |           | 82341 |                | 439361-F or 439362-F                           |
|                   | 73 Ohm      |           | 82342 |                | Use OE sender                                  |
| Oil Pressure      | 0-700 kPa   |           | 82387 |                | 114875   |
| Oil Temperature   | 60-160°C    | 82395-72  |       | Tube - 1.83m   |  |
|                   | 60-160°C    | 82395-96  |       | Tube - 2.44m   |  |
|                   | 60-160°C    | 82395-144 |       | Tube - 3.66m   |  |
|                   | 60-160°C    |           | 82390 |                | 280EE-F  |
| Water Temperature | 40-130°C    | 82394-72  |       | Tube - 1.83m   |  |
|                   | 40-130°C    | 82394-96  |       | Tube - 2.44m   |  |
|                   | 40-130°C    | 82394-144 |       | Tube - 3.66m   |  |
|                   | 40-115°C    |           | 82389 |                | 280EC  |
| Voltmeter         | 10-16V      |           | 82309 | Color Band     |  |
|                   | 10-16V      |           | 82391 | Color Band     |  |
|                   | 20-32V      |           | 82347 | Color Band     |  |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders, tubing or shunts separately.

| Type        | Range     | 3-3/8"   |        | Note:                   | Additional Kit Needed: |
|-------------|-----------|----------|--------|-------------------------|------------------------|
|             |           | Mech     | Elec   |                         |                        |
| Speedometer | 0-140 KPH | 82697    |        | Odometer                |                        |
|             | 0-140 KPH |          | 82656  | Odometer                | 114878 or 82646        |
| Tachometers | 5,000 RPM | 551AKM-D |        | .5:1 Ratio              |                        |
|             | 9,000 RPM | 535AH-D  |        | .5:0 Ratio              |                        |
|             | 6,000 RPM |          | 82162B | 4-, 6-, 8-Cyl           |                        |
|             | 6,000 RPM |          | 82612  | 4-, 6-, 8-Cyl; 12 Pole  |                        |
|             | 8,000 RPM |          | 82170  | 4-, 6-, 8-Cyl; 12 Pole  |                        |
|             | 8,000 RPM |          | 82163  | 4-, 8-, 12-Cyl; 20 Pole |                        |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders separately.

## Deluxe™ : Boxed Kits & Panels



| DELUXE™ BOXED KITS |           |             |                   |  |
|--------------------|-----------|-------------|-------------------|--|
| Panel/Type         | Range(s)  | Kit Number: | Notes:            | Also Included in Kit:                                      |
| <b>Boxed Kit</b>   |           |             |                   |  |
| 6-Gauge            |           | 82218       |                   | Pressure sender<br>Temperature sender<br>Fuel level sender |
| Speedometer        | 0-160 MPH |             | 3-3/8" Mechanical |  |
| Tachometer         | 8,000 RPM |             | 3-3/8" Electric   |  |
| Oil Pressure       | 0-100 PSI |             | 2-1/16" Electric  |  |
| Water Temp         | 100-280°F |             | 2-1/16" Electric  |  |
| Fuel Level         | 240 Ohm   |             | 2-1/16" Electric  |  |
| Voltmeter          | 10-16V    |             | 2-1/16" Electric  |  |

Kit includes: Light kits, installation instructions and additional accessories as indicated above.

| 2-1/16" DELUXE™ CHROME PANELS                    |                                    |             |                                    |  |
|--|------------------------------------|-------------|------------------------------------|--|
| Panel/Type                                       | Range(s)                           | Kit Number: | Notes:                             | Also Included in Kit:                          |
| <b>Double Panels</b>                             |                                    |             |                                    |  |
| Oil Pressure/<br>Water Temperature               | 0-100 psi/<br>100-265°F            | 873137      | Electric                           | Pressure sender<br>Temperature sender          |
| Oil Pressure/<br>Water Temperature               | 5-100 psi/<br>100-280°F            | 873135      | Mechanical                         | 6 ft. tubing kit<br>72" cap. on Water Temp ga. |
| <b>Triple Panels</b>                             |                                    |             |                                    |  |
| Oil Pressure/<br>Water Temperature/<br>Voltmeter | 0-100 psi/<br>100-280°F/<br>10-16V | 873136      | Electric                           | Pressure sender<br>Temperature sender          |
| Oil Pressure/<br>Water Temperature/<br>Voltmeter | 5-100 psi/<br>100-265°F/<br>10-16V | 873134      | Mechanical<br>(Voltmeter-electric) | 6 ft. tubing kit<br>72" cap. on Water Temp ga. |

Kits include: Mounting panel and hardware, light kits installation instructions and additional accessories as indicated above.

| 2-5/8" DELUXE™ CHROME PANEL                          |                                      |             |            |   |
|--|--------------------------------------|-------------|------------|---|
| Panel/Type   | Range(s)                             | Kit Number: | Notes:     | Also Included in Kit:                                   |
| <b>Triple Panel</b>                                  |                                      |             |            |   |
| Fuel Pressure/<br>Oil Pressure/<br>Water Temperature | 1-15 psi/<br>5-100 psi/<br>100-265°F | 82221       | Mechanical | 2 ea. of 6 ft. tubing kit<br>72" cap. on Water Temp ga. |

Kits includes: Mounting panel and hardware, light kit installation instructions and additional accessories as indicated above.



82218



82221

# IMPACT™



**You need these gauges!**

Your new pick-up looks awesome. Now, it's time for a performance chip. And some new gauges to boot. But not just ANY gauges...you need Stewart Warner Impact™ diesel performance gauges. Finally, a gauge that not only functions well, but also looks like it BELONGS in your truck. Choose an exhaust temp gauge, transmission oil temp gauge, or boost gauge—everything you need to keep an eye on towing, off-road or racing with your big diesel. And, we have a vac/boost gauge too.



Optional LED Light Kit Shown  
(114925)

**Features include:**

- Crisp, easy-to-read, contemporary graphics; white or black dials
- Polished stainless steel, low-profile bezels with domed lenses
- Clear pointer with orange back and black hub, lighted
- Sold as kits, with gauge, sending units and hardware
- Engine exhaust temp gauge includes thermocouple (probe)
- Compatible with LED light kits

**STEWART WARNER MAKES AN IMPACT™**



**COMING SOON:** More Impact™ series gauges, tachs and speedos.



# IMPACT™



| Type               | Range        | 2-1/16" Black |        | 2-1/16" White |        | Note:  |
|--------------------|--------------|---------------|--------|---------------|--------|--|
|                    |              | Mech          | Elec   | Mech          | Elec   |  |
| Boost              | 0-30 psi     | 119916        | -      | 119820        | -      | Includes tubing kit                                  |
| Boost              | 0-60 psi     | 119917        | -      | 119821        | -      | Includes tubing kit                                  |
| Boost              | 0-100 psi    | 119918        | -      | 119822        | -      | Includes tubing kit                                  |
| Exhaust Temp       | 0-1600°F     | -             | 119909 | -             | 119815 | See 53 for probes                                    |
| Fuel Pressure      | 0-15 psi     | -             | 119911 | -             | 119817 | Includes sender                                      |
| Fuel Pressure      | 0-30 psi     | 119913        | -      | 119919        | -      | See 54 for SS hose                                   |
| Fuel Pressure      | 0-100 psi    | 119914        | 119912 | 119920        | 119818 | See 54 for SS hose<br>Electric gauge includes sender |
| Trans. Temperature | 140-320°F    | -             | 119910 | -             | 119816 | Includes sender                                      |
| Vac/Boost          | 30inHg/15psi | 119915        | -      | 119819        | -      | Includes tubing kit                                  |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Additional accessories included as indicated above.



119910



119816



119820



119916



Ford pod 114818 shown with Impact™ gauges



119815



119909



119819



119915

Not all products pictured.



## Get your original Wings™ today!

Remember the good ol' days when chrome was king and powerful cars ruled the road? When style was just as important as function? If so, we've got the right product for you...original Stewart Warner Wings™. Based on our 1940s style gauges, Wings™ are available with white-on-black, black-on-white, black-on-silver or black-on-cream graphics.

### Features include:

- Unique teardrop pointer
- Chrome- or gold-plated bezels with domed lenses
- Classic graphics—instantly recognizable as Stewart Warner's
- Wings™ logo (so you know it's Stewart Warner)
- Available as kits with sending units, or as individual part numbers
- Wings for Truckers™ available (consult your distributor)

### SUPER PRIZE PROGRAM

Stewart Warner is a proud sponsor of the National Street Rod Association's Super Prize Program. Earn a chance to win a FREE Gold Wings™ set of instruments at each of the NSRA's shows. Be sure to look for Stewart Warner Wings™ instruments at a distributor near you!



### Kit 82225



82472



82474



82664



82660



82478



82482

### Kit 82243



82531



82612



82532



82530



82533

### Kit 82244



82499



82497



82498



82610



82611

### Kit 82222



82659



82661



82473



82477



82471



82481

### Kit 82523



82607



82521



82520



82523



82522



## Wings™

| WINGS™ BOXED KITS   |            |          |                        |
|---|------------|----------|------------------------|
| 6-Gauge Kits  | Mechanical | Electric | Tach Signal:           |
| Black   | 82225      | 82223    | Gas/Ign.; 4, 6, 8-Cyl. |
| White   | 82224      | 82222    | Gas/Ign.; 4, 6, 8-Cyl. |
| Electric tachometer (8,000 RPM); electric speedo (160 MPH) & speed sensor; 10-16V voltmeter; 240 Ohm fuel level & sender; 0-80 psi oil pressure (elec kits include pressure sender/mechanical kits include 6 ft. tubing kit w/fittings); 100-240°F water temperature (elec kits include temperature sender/mech kits include 72" capillary tube). |            |          |                        |
| 5-Gauge Kits  | Mechanical | Electric |                        |
| Black   | 82227      | 82229    |                        |
| White   | 82226      | 82228    |                        |
| Beige   | -          | 82243    |                        |
| Gold  | -          | 82230    |                        |
| Silver  | -          | 82244    |                        |
| Electric speedo (160 MPH) & speed sensor; 10-16V voltmeter; 240 Ohm fuel level & sender; 0-80 psi oil pressure (elec kits include pressure sender/mechanical kits include 6 ft. tubing kit w/fittings); 100-240°F water temperature (elec kits include temperature sender/mech kits include 72" capillary tube)                                   |            |          |                        |



Kits include: All kits include mounting hardware, light kits and installation instructions.





| Type/Range                           | Black         |                    | White         |                    | Beige              | Gold               | Silver             | Additional Kit Needed:                         |
|--------------------------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--|
|                                      | 2-1/16"       |                    | 2-1/16"       |                    | 2-1/16"            |                    |                    |  |
|                                      | Mech          | Elec               | Mech          | Elec               | Elec               | Elec               | Elec               |  |
| Air Pressure<br>10-150 psi           | 82488         | -                  | 82487         | -                  | -                  | -                  | -                  | 114840 (6 ft. tube) or<br>114841 (16 ft. tube) |
| Air Suspen.<br>2-100 psi             | 82484         | -                  | 82483         | -                  | -                  | -                  | -                  | 114840 (6 ft. tube) or<br>114841 (16 ft. tube) |
| Boost<br>40 psi/30 HG                | 82492         | -                  | 82491         | -                  | -                  | -                  | -                  | 114842   |
| Fuel Level<br>240 Ohm                | -             | 82472              | -             | 82471              | 82532              | 82522              | 82499              | See fuel senders page 52                       |
| 90 Ohm                               | -             | 82494              | -             | 82493              | -                  | -                  | -                  |  |
| 73 Ohm                               | -             | 82496              | -             | 82495              | -                  | -                  | -                  |  |
| Oil Press<br>80 psi                  | 82476         |                    | 82475         |                    |                    |                    |                    | 114840 (6 ft. tube) or<br>114841 (16 ft. tube) |
|                                      |               | 82474              |               | 82473              | 82530              | 82520              | 82497              | 279A   |
| Oil Temp<br>140-320°F                | -             | 82490              | -             | 82489              | -                  | -                  | -                  | 280EE-F  |
| Pyrometer <sup>4</sup><br>300-1500°F | -             | 82486              | -             | 82485              | -                  | -                  | -                  | See page 53 for probes                         |
| Water Temp<br>100-240°F              | -             | 82478              | -             | 82477              | 82531              | 82521              | 82498              | 280EC  |
|                                      | 100-265°F     |                    |               |                    |                    |                    |                    |  |
| 72" cap.                             | 82480-72      |                    | 82479-72      |                    |                    |                    |                    |  |
| 96" cap.                             | 82480-96      |                    | 82479-96      |                    |                    |                    |                    |  |
| 144" cap.                            | 82480-144     |                    | 82479-144     |                    |                    |                    |                    |  |
| Voltmeter<br>10-16V                  | -             | 82482              | -             | 82481              | 82533              | 82523              | 82610              |  |
|                                      | <b>3-3/8"</b> |                    | <b>3-3/8"</b> |                    |                    |                    |                    |  |
| Tachometer<br>8,000 RPM              | -             | 82660              | -             | 82659              | 82613              | 82608              | 82614              | 4, 6, 8-cylinder                               |
| 3,500 RPM                            | -             | 82672 <sup>1</sup> | -             | 82671 <sup>1</sup> | -                  | -                  | -                  | See note 1 below                               |
| 3,500 RPM                            | -             | 82674 <sup>2</sup> | -             | 82673 <sup>2</sup> | -                  | -                  | -                  | See note 2 below                               |
| Speedometer<br>80 MPH                | 82666         | -                  | 82665         | -                  | -                  | -                  | -                  |  |
| 120 MPH                              | -             | 82670 <sup>3</sup> | -             | 82669 <sup>3</sup> | -                  | -                  | -                  | See note 3 below                               |
| 160 MPH                              | 82664         |                    | 82663         |                    |                    |                    |                    |  |
|                                      |               | 82662 <sup>4</sup> |               | 82661 <sup>4</sup> | 82612 <sup>4</sup> | 82607 <sup>4</sup> | 82611 <sup>4</sup> | See note 4 below                               |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders or tubing separately.

<sup>1</sup> Programmable for alternator or order sender 114878 for mechanical take-off applications

<sup>2</sup> For tone/flywheel applications and requires sender 82674

<sup>3</sup> Senders: Mechanical take-off applications require sender 82527; Tone/Flywheel applications require sender 82646

<sup>4</sup> Senders: Mechanical take-off applications require sender 114878; Tone/Flywheel applications require sender 82646

## POWER SERIES™

**SW**

Kit 82248

### **You feel the power...your heart is pounding...the G's force you back in your seat.**

Glancing down, your Stewart Warner instruments respond quickly and accurately, and you know all is well. Stewart Warner salutes the muscle cars of yesterday and today with POWER SERIES™, derived from the real thing—our 1960s Custom-Deluxe™ “Green Line” gauges used on Big 3 muscle cars. Available in three accent colors—burgundy, titanium and blue/gray—to complement popular car color schemes.

#### **Features include:**

- Silver disk in center of gauge, just like the originals
- Specially designed pointer with black base and silver hub
- Bold, easy-to-read graphics
- Chrome-plated bezels
- Sold as kits with sending units, or as individual part numbers



Coming in the future: Original style “Green Line” gauges!

## Power Series™



Box Kit 82247



82517



82760



82838



82841



82761



82762

Box Kit 82247



82757



82837



82840



82758



82756



82516

Box Kit 82254



82755



82842



82839



82754



82515

Box Kit 82253



82517



82760



82841



82761



82762

## Power Series™



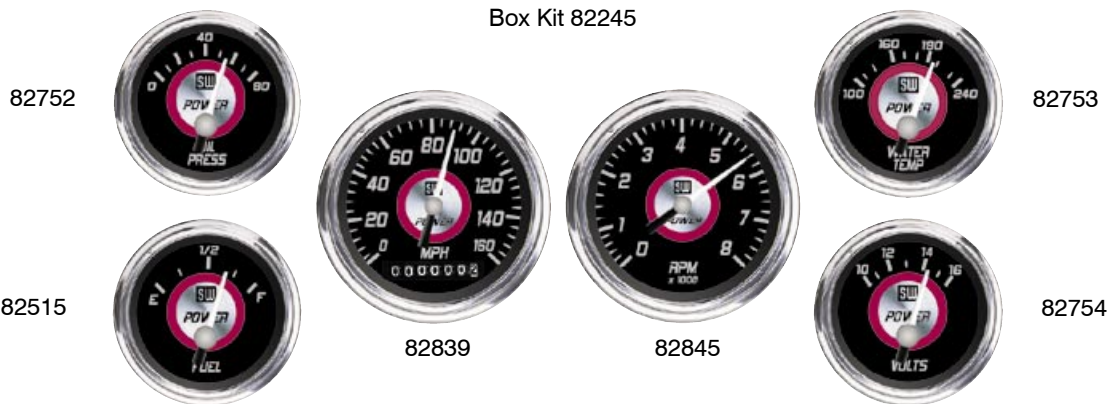
| POWER SERIES BOXED KITS   |            |          |                        |
|---|------------|----------|------------------------|
| 6-Gauge Kits  | Mechanical | Electric | Tach Signal:           |
| Blue/Gray   | 82250      | 82247    | Gas/Ign.; 4, 6, 8-Cyl. |
| Burgundy  | 82248      | 82245    | Gas/Ign.; 4, 6, 8-Cyl. |
| Titanium  | 82249      | 82246    | Gas/Ign.; 4, 6, 8-Cyl. |
| Electric tachometer (8,000 RPM); electric speedo (160 MPH) & speed sensor; 10-16V voltmeter; 240 Ohm fuel level & sender; 0-80 psi oil pressure (elec kits include pressure sender/mechanical kits include 6 ft. tubing kit w/fittings); 100-240°F water temperature (elec kits include temperature sender/mech kits include 72" capillary tube). |            |          |                        |
| 5-Gauge Kits  | Mechanical | Electric |                        |
| Blue/Gray   | 82256      | 82253    |                        |
| Burgundy  | 82254      | 82251    |                        |
| Titanium  | 82255      | 82252    |                        |
| Electric speedo (160 MPH) & speed sensor; 10-16V voltmeter; 240 Ohm fuel level & sender; 0-80 psi oil pressure (elec kits include pressure sender/mechanical kits include 6 ft. tubing kit w/fittings); 100-240°F water temperature (elec kits include temperature sender/mech kits include 72" capillary tube)                                   |            |          |                        |

Kits include: All kits include mounting hardware, light kits and installation instructions.

### Box Kit 82250



### Box Kit 82245



### Box Kit 82246







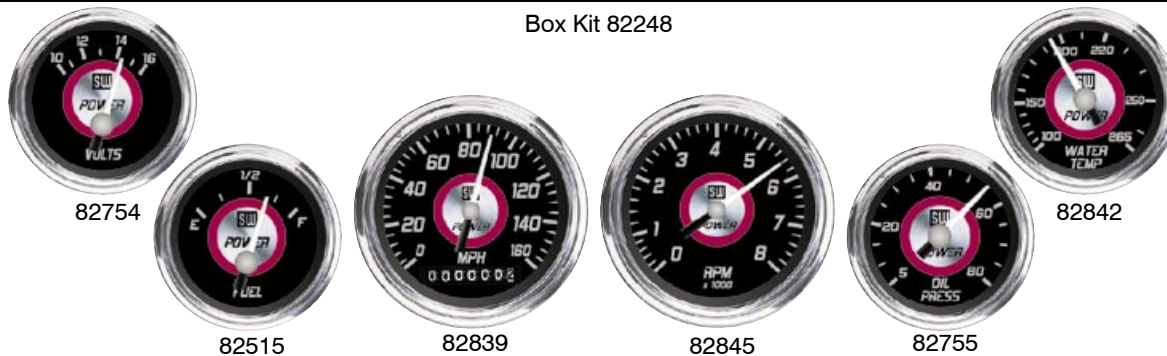
| Type/Range                                | Blue/Gray Ring |       | Burgundy Ring |       | Titanium Ring |       | Additional Kit Needed:                         |
|---|----------------|-------|---------------|-------|---------------|-------|--|
|   | 2-1/16"        |       | 2-1/16"       |       | 2-1/16"       |       |  |
|   | Mech           | Elec  | Mech          | Elec  | Mech          | Elec  |  |
| Fuel Level<br>240 Ohm                     | -              | 82517 | -             | 82515 | -             | 82516 | Senders Page 52                                |
| Oil Press<br>0-80 psi                     | 82763          | -     | 82755         | -     | 82759         | -     | 114840 (6 ft. tube) or<br>114841 (16 ft. tube) |
|   | -              | 82760 | -             | 82752 | -             | 82756 | 279A   |
| Water Temp<br>100-265°F                   | 82844          | -     | 82842         | -     | 82843         | -     | 72" capillary included                         |
|   | -              | 82761 | -             | 82753 | -             | 82757 | 280EC  |
| Voltmeter<br>10-16V                       | -              | 82762 | -             | 82754 | -             | 82758 |  |
|   | 3-3/8"         |       | 3-3/8"        |       | 3-3/8"        |       |  |
| Tachometer<br>8,000 RPM<br>(4, 6, 8-cyl.) | -              | 82838 | -             | 82845 | -             | 82837 |  |
| Speedometer<br>160 MPH                    | -              | 82841 | -             | 82839 | -             | 82840 | 114878 or 82846                                |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders or tubing separately.

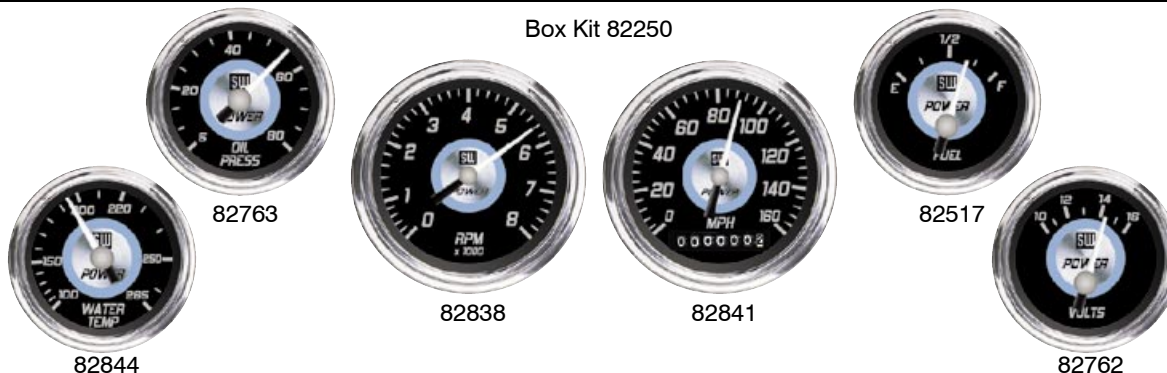
### Box Kit 82249



### Box Kit 82248



### Box Kit 82250



## Standard & Standard Plus™



### Want to dress up your classic collector car?

Add Stewart Warner Standard™ or Standard Plus™ gauges. Cars or trucks from the '40s through the '60s are especially suited for single, double or triple gauge panels, typically mounted under those big dashboards. If you want an authentic line of classic old-style Stewart Warner gauges, then Standard™ is the line for you. And, if you need lighting just like the originals, step up to Standard Plus™ gauges.

#### Features include:

- Original white-on-black graphics arranged in a 60° arc
- Flat bright stainless steel bezel
- Unique pointer with hub at bottom of gauge
- 2-1/32" diameter case-same as originals
- Standard™ gauges in sealed case, non-illuminated
- Standard Plus™ sold as kits with gauges, mounting panels (1-, 2- or 3-gauge) and lighting (external, indirect)



82214B72

82215B



82217B

## Standard & Standard Plus™



| STANDARD GAUGES |           |           |       |                |  |
|-----------------|-----------|-----------|-------|----------------|--|
| Type            | Range     | 2-1/32"   |       | Note:          | Additional Kit Needed:                         |
|                 |           | Mech      | Elec  |                |  |
| Ammeter         | 20-0-20   | -         | 82201 | Internal Shunt |  |
|                 | 30-0-30   | -         | 82200 | Internal Shunt |  |
|                 | 60-0-60   | -         | 82202 | Internal Shunt |  |
| Fuel Level      | 240 Ohm   | -         | 82211 |                | Senders Page 52                                |
| Pressure        | 0-50 psi  | 82207     | -     |                | 114840 (6 ft. tube) or<br>114841 (16 ft. tube) |
|                 | 0-100 psi | 82209     | -     |                |  |
|                 | 0-80 psi  | 82208     | -     |                |  |
| Temperature     | 100-250°F | 82210-36  | -     | Tube - 36"     |  |
|                 | 100-250°F | 82210-48  | -     | Tube - 48"     |  |
|                 | 100-250°F | 82210-60  | -     | Tube - 60"     |  |
|                 | 100-250°F | 82210-72  | -     | Tube - 72"     |  |
|                 | 100-250°F | 82210-144 | -     | Tube - 144"    |  |

Kits include: Mounting hardware, installation instructions. Purchase fuel sender or tubing separately.



82210



82209



82211

| STANDARD PLUS™ GAUGE PANELS          |                                     |             |  |
|--------------------------------------|-------------------------------------|-------------|--|
| Panel/Type                           | Range(s)                            | Kit Number: | Also Included in Kit:                      |
| <b>Single Panels</b>                 |                                     |             |  |
| Ammeter                              | 60-0-60                             | 82212B      |  |
| Pressure                             | 0-100 psi                           | 82213B      | 6 ft. tubing kit w/fittings                |
| Temperature                          | 100-250°F                           | 82214B72    | 72" capillary                              |
| <b>Double Panels</b>                 |                                     |             |  |
| Ammeter/<br>Pressure                 | 60-0-60;<br>0-100 psi               | 82215B      | 6 ft. tubing kit w/fittings                |
| Pressure/<br>Temperature             | 0-100 psi;<br>100-250°F             | 82216B      | 72" capillary; 6 ft. tubing kit w/fittings |
| <b>Triple Panel</b>                  |                                     |             |  |
| Ammeter/<br>Pressure/<br>Temperature | 60-0-60;<br>0-100 psi;<br>100-250°F | 82217B      | 72" capillary; 6 ft. tubing kit w/fittings |

Kits include: Mounting panel and hardware, light kit installation instructions and additional accessories as indicated above.



82200

82213B



82216B



## Heavy Duty™



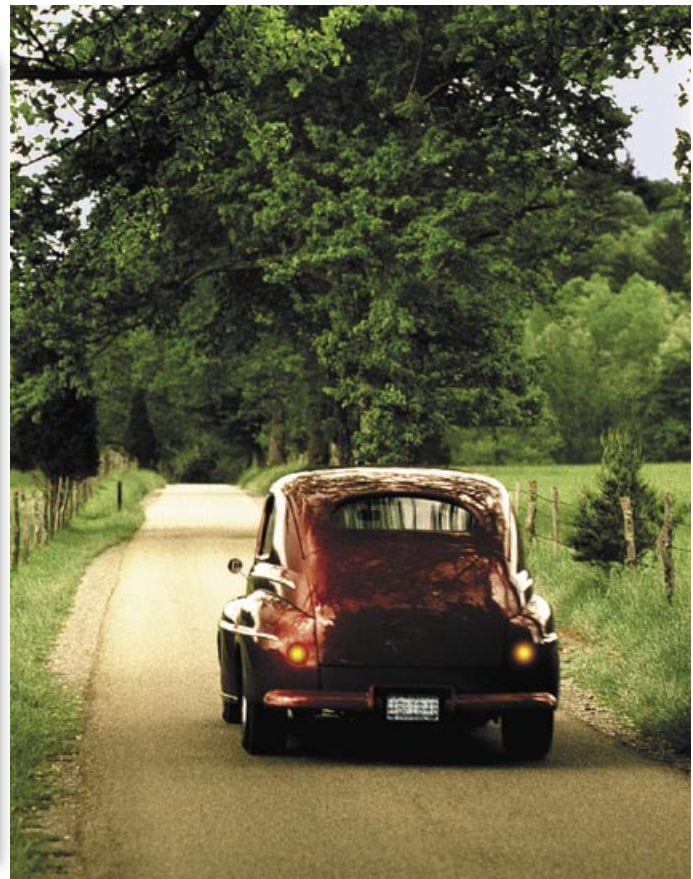
### **Another classic line from Stewart Warner—original Heavy Duty™ gauges.**

An authentic look for yesterday's or today's cars or trucks, these gauges feature our patented light ring for superior night-time lighting plus a unique black bezel with a brushed bright ring. They're original...and HEAVY DUTY™!

#### **Features include:**

- Bold white-on-black graphics
- Black raised bezel with distinctive brushed bright rim
- Classic white pointer with black hub
- Rugged gauge movements-ideal for trucks too
- Matching 5" tach or speedo available

**GOOD-LOOKING YET RUGGED,  
IDEAL FOR TRUCKS TOO**





82642



82164B



550HF-D



550HH-D



284D



284J



284M



284L



284H



284B

## Heavy Duty™ : Gauges



| Type               | Range      | 2-1/16" |       | Note:          | Additional Kit Needed:  |
|--------------------|------------|---------|-------|----------------|---|
|                    |            | Mech    | Elec  |                |   |
| Air Pressure       | 5-100 psi  | 284N    | -     |                | 114840 (6 ft. tube) or 114841 (16 ft. tube)   |
|                    | 0-150 psi  | -       | 284T  |                | 279C  |
| Ammeter            | 60-0-60    | -       | 284A  | Internal Shunt |   |
|                    | 100-0-100  | -       | 284AA | Reqs. Shunt    | 407616  |
|                    | 150-0-150  | -       | 284AD | Reqs. Shunt    | 407616  |
| Boost              | 0-30/0-15  | 284BF   | -     | Red Pointer    |   |
| Exhaust Temp       | 300-1500°F | -       | 82334 |                | 82505   |
| Fuel Level         | 240 Ohm    | -       | 284M  |                | Senders Page 52   |
|                    | 90 Ohm     | -       | 284BS |                | Senders Page 52   |
|                    | 73 Ohm     | -       | 284BR |                | Use OE sender   |
| Fuel Pressure      | 0-16 psi   | -       | 284AM |                | 114874  |
|                    | 0-15 psi   | 284E    | -     |                | Use braided stainless steel hose. Gauge must be mounted outside passenger compartment |
| Oil Pressure       | 0-80 psi   | -       | 284AE |                | 279A  |
|                    | 0-100 psi  | -       | 284L  |                | 114875  |
|                    | 5-100 psi  | 284D    | -     |                | 114840 (6 ft. tube) or 114841 (16 ft. tube)   |
|                    | 10-200 psi | 284P    | -     |                |   |
| Oil Temperature    | 140-320°F  | -       | 284K  |                | 280EE-F   |
|                    | 140-325°F  | 284C36  | -     | 36" capillary  |   |
|                    | 140-325°F  | 284C72  | -     | 72" capillary  |   |
|                    | 140-325°F  | 284C144 | -     | 144" capillary |   |
| Trans Oil Pressure | 20-300 psi | 284R    | -     |                | 114840 (6 ft. tube) or 114841 (16 ft. tube)   |
|                    | 25-400 psi | 284S    | -     |                |   |
| Water Temperature  | 100-230°F  | -       | 284AF |                | 280EA   |
|                    | 100-280°F  | -       | 284J  |                | 280ED-F   |
|                    | 100-265°F  | 284B36  | -     | 36" capillary  |   |
|                    | 100-265°F  | 284B72  | -     | 72" capillary  |   |
|                    | 100-265°F  | 284B144 | -     | 144" capillary |   |
| Vacuum             | 0-30Hg     | 284AH   | -     |                | 114842  |
|                    | 0-30Hg     | 82301   | -     | Motor Minder   | 114842  |
| Voltmeter          | 10-16V     | -       | 284H  | Color Band     |   |
|                    | 20-32V     | -       | 284AJ | Color Band     |   |

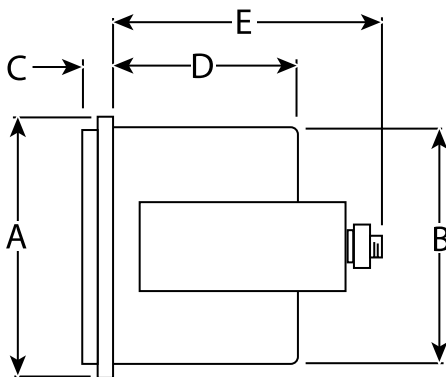
Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders, tubing or shunts separately.

## Heavy Duty™ : Tachs/Speedometers



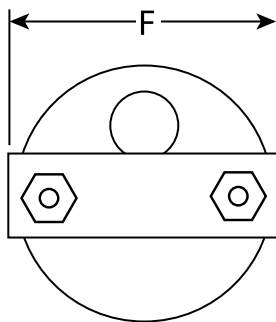
| Type        | Range     | 3-3/8"  |        | Note:                     | Additional Kit Needed: |
|-------------|-----------|---------|--------|---------------------------|------------------------|
|             |           | Mech    | Elec   |                           |                        |
| Speedometer | 5-85 MPH  |         | 82642  | Odometer                  | 114878 or 82646        |
|             | 5-85 MPH  |         | 82604  | Odometer                  | Square Wave            |
|             | 0-80 MPH  | 550HF-D |        | Odometer/High-Beam        |                        |
|             | 0-160 MPH | 550HH-D |        | Odometer                  |                        |
| Tachometers | 6,000 RPM | 535AK-D |        | .5:1 Ratio                |                        |
|             | 6,000 RPM |         | 82164B | 4-, 6-, 8-Cyl (Ignition)  |                        |
|             | 8,000 RPM |         | 82165  | 4-, 8-, 12-Cyl (Ignition) |                        |
|             | 8,000 RPM |         | 82171B | 4-, 6-, 8-Cyl (Ignition)  |                        |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders separately.



Side View

| Gauges    |                |      |               |      |
|-----------|----------------|------|---------------|------|
| Dimension | 2-1/16" Gauges |      | 2-5/8" Gauges |      |
|           | in.            | cm   | in.           | cm   |
| A         | 2.28           | 5.79 | .N/A          | .N/A |
| B         | 2.06           | 5.23 | .N/A          | .N/A |
| C         | .375           | .95  | N/A           | .N/A |
| D         | 1.38           | 3.51 | .N/A          | .N/A |
| E         | 2.26           | 5.74 | .N/A          | .N/A |
| F         | 2.25           | 5.72 | .N/A          | .N/A |



Back View

| Tachometer/Speedometer |                   |      |                 |       |
|------------------------|-------------------|------|-----------------|-------|
| Dimension              | 3-3/8" Mechanical |      | 3-3/8" Electric |       |
|                        | in.               | cm   | in.             | cm    |
| A                      | 3.81              | 9.68 | 3.69            | 9.37  |
| B                      | 3.34              | 8.48 | 3.34            | 8.48  |
| C                      | .49               | 1.24 | .49             | 1.24  |
| D                      | 2.31              | 5.87 | 2.61            | 6.63  |
| E                      | 3.56              | 9.04 | 4.12            | 10.46 |
| F                      | 3.59              | 9.12 | 3.59            | 9.12  |

## 5" Instruments



### Looking for a way to dress up your classic Chevy or Dodge or Ford dashboard?

Check these out...classic 5" Stewart Warner speedometers, tachometers and 4-in-one gauge clusters. They're BIG and ORIGINAL. No copies here! Available with white-on-black or black-on-white Deluxe™ style graphics, they're perfect for your restoration.

#### Features include:

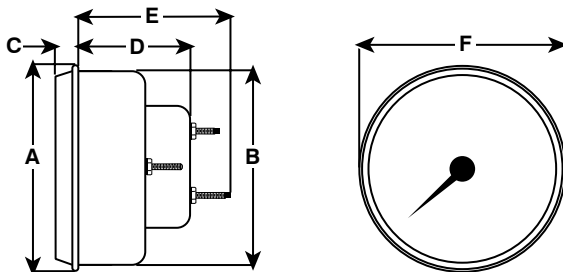
- Black or white pointers with black hub
- Polished stainless steel bezels
- Matching white-faced 10,000 rpm tachs now available
- Block SW or Wings™ logos to match your gauges
- Mechanical take-off or magnetic pick-up senders for tachs

### ANOTHER BLAST FROM THE PAST FROM STEWART WARNER!

| Type/Range                                  | 5"         |            | Order Sender:                |
|---|------------|------------|------------------------------|
|   | Black Dial | White Dial |                              |
| Speedometer<br>160 MPH<br>Block Logo        | 82698      | 82898      | 114878 or 82646              |
| Speedometer<br>160 MPH<br>Wings Logo        | 82848      | 82846      | 114878 or 82646              |
| Tachometer<br>10,000 RPM<br>Block Logo      | 82699      | -          | (Signal from ignition coils) |
| Tachometer<br>10,000 RPM<br>Wings Logo      | 82849      | 82847      | (Signal from ignition coils) |
| 4-In-One Cluster <sup>1</sup><br>No Logo    | 366ACY     | -          | See note 1 below             |
| 4-In-One Cluster <sup>1</sup><br>Wings Logo | 366ADH     | 366ACY-1   | See note 1 below             |

Kits Include: Mounting hardware; light kits; installation instructions.

<sup>1</sup> Includes pressure sender and temperature sender. Order fuel sender separately.



| Dimensions | Tachs/Speedos | 4-Gauge Cluster |
|------------|---------------|-----------------|
| A & F      | 5.4"          | 5.4"            |
| B          | 5.04"         | 5.0"            |
| C          | .7"           | .7"             |
| D          | 2.62"         | 1.12"           |
| E          | 3.4"          | 1.95"           |



82847



82849



366ACY-1



366ADH



82847



82898



## Specialty Products/Tools



82682

### Hand Held Tachometer

0-4000 RPM clockwise and counterclockwise. 3" diameter and 4" long. Use for direct measure on rotating shaft.

- 82682 - Tachometer
- 412850 - 12" extension shaft
- 412850-1 - 3" extension shaft
- 96798 - Cone rubber tip
- 96799 - Cup rubber tip



82459

### Mini Panel

Includes voltmeter, electric water temperature and electric oil pressure gauges in a 4-1/8" wide by 2" high by 2" deep panel.

Kit Contains:

- 82459 - Mini Panel
- 1/8" temperature sender
- 1/2" and 3/8" adapter nuts
- 1/8" pressure sender
- 1/4" adapter
- 10 mm male female adapters
- 2-3/4" extension for oil pressure sending unit

**If you are looking for our Heavy Duty Plus™, World Wide™, Commander™ gauge lines or core & casing, drive joint kits and halogen lighting or other products, check out our website or request our Heavy Duty catalog from Customer Service at 1-800-676-1837.**

## Track Force™ - Black Bezel



**Our Track Force™ Line will be offered for those restoring race cars.**

Keep watching for a new line of products.

Please note that our distributors may not have the full Track Force™ product line in stock.

| 3-3/8"      |            |         |         |  |              |
|-------------|------------|---------|---------|--|--------------|
| Type        | Range      | Mech    | Elec    | Note:                                  | Signal:      |
| Speedometer | 0-160 MPH  | 82852-P | -       |  |              |
| Tachometers | 10,000 RPM | 82851-P | -       | .5:1 Adj Ratio/Adj Redline             |              |
|             | 10,000 RPM | -       | 82850-P | 4-, 6-, 8-cylinder/<br>Telltale Memory | Gas/Ignition |
| 5"          |            |         |         |  |              |
| Tachometers | 10,000 RPM | -       | 82800-P | 4-, 6-, 8-cylinder/<br>Telltale Memory | Gas/Ignition |
|             | 10,000 RPM | -       | 82803-P | 4-, 6-, 8-cylinder                     | Gas/Ignition |
|             | 12,000 RPM | -       | 82802-P | 4-, 6-, 8-cylinder/<br>Telltale Memory | Gas/Ignition |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions.



82850-P  
(Electric)



82851-P  
(Mechanical)

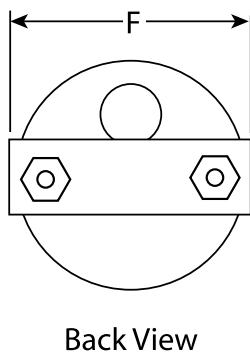
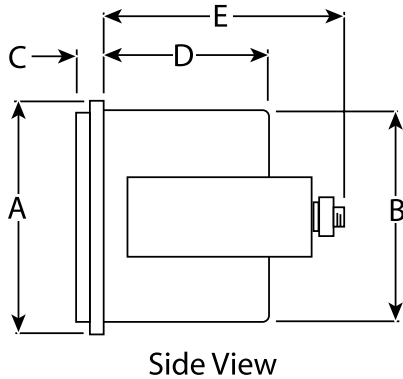
## Track Force™ - Black Bezel



| Type              | Range      | 2-1/16"    |         | 2-5/8"     |         | Note:          | Additional Kit Needed:                      |
|-------------------|------------|------------|---------|------------|---------|----------------|---|
|                   |            | Mech       | Elec    | Mech       | Elec    |                |   |
| Ammeter           | 60-0-60    | -          | 82855-P | -          | 82805-P | Internal Shunt |   |
| Boost (Turbo)     | 0-30/0-15  | 82864-P    | -       | 82814-P    | -       |                | 114840 (6 ft. tube) or 114841 (16 ft. tube) |
| Fuel Level        | 240 Ohm    | -          | 82863-P | -          | 82813-P |                | Senders Page 52                             |
|                   | 90 Ohm     | -          | 82869-P | -          |         |                | Senders Page 52                             |
|                   | 73 Ohm     | -          | 82870-P | -          |         |                | Use OE sender                               |
| Fuel Pressure     | 1-16 psi   | 82856-P*   | -       | 82806-P*   | -       | Use SS hose*   |   |
|                   | 1-15 psi   | -          | 82868-P | -          | -       |                | 114874                                      |
| Oil Pressure      | 5-100 psi  | 82857-P    | -       | 82807-P    |         |                | 114840 (6 ft. tube) or 114841 (16 ft. tube) |
|                   | 10-200 psi | 82858-P    | -       | 82808-P    | -       |                |   |
|                   | 0-100 psi  | -          | 82865-P | -          | -       |                | 114875                                      |
| Oil Temperature   | 140-325°F  | 82860-36P  | -       | -          | -       | Capillary 36"  |   |
|                   | 140-325°F  | 82860-72P  | -       | 82810-72P  | -       | Capillary 72"  |   |
|                   | 140-325°F  | 82860-144P | -       | 82810-144P | -       | Capillary 144" |   |
| Water Temperature | 100-265°F  | 82859-36P  | -       | -          | -       | Capillary 36"  |   |
|                   | 100-265°F  | 82859-72P  | -       | 82809-72P  | -       | Capillary 72"  |   |
|                   | 100-265°F  | 82859-144P | -       | 82809-144P | -       | Capillary 144" |   |
|                   | 100-280°F  | -          | 82866-P | -          | -       |                | 280ED-F                                     |
| Vacuum            | 0-30 Hg    | 82861-P    | -       | 82811-P    | -       |                | 114842                                      |
| Voltmeter         | 10-16V     | -          | 82862-P | -          | 82812-P |                |   |

\* Mechanical Fuel Pressure gauges must be mounted outside the passenger compartment for safety and braided stainless steel hose must be used for connection.

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders, tubing or shunts separately.



| Gauges    |                |      |               |      |
|-----------|----------------|------|---------------|------|
| Dimension | 2-1/16" Gauges |      | 2-5/8" Gauges |      |
|           | in.            | cm   | in.           | cm   |
| A         | 2.28           | 5.79 | 2.80          | 7.11 |
| B         | 2.06           | 5.23 | 2.60          | 6.60 |
| C         | .188           | .476 | .188          | .476 |
| D         | 1.38           | 3.51 | 1.76          | 4.47 |
| E         | 2.26           | 5.74 | 2.46          | 6.25 |
| F         | 2.25           | 5.72 | 2.88          | 7.32 |

| Tachometer/Speedometer |                   |      |                 |       |
|------------------------|-------------------|------|-----------------|-------|
| Dimension              | 3-3/8" Mechanical |      | 3-3/8" Electric |       |
|                        | in.               | cm   | in.             | cm    |
| A                      | 3.81              | 9.68 | 3.69            | 9.37  |
| B                      | 3.34              | 8.48 | 3.34            | 8.48  |
| C                      | .49               | 1.24 | .49             | 1.24  |
| D                      | 2.31              | 5.87 | 2.61            | 6.63  |
| E                      | 3.56              | 9.04 | 4.12            | 10.46 |
| F                      | 3.59              | 9.12 | 3.59            | 9.12  |

# Track Force™ - Stainless Steel Bezel



|             |            | 3-3/8"  |         |  |                |
|-------------|------------|---------|---------|--|----------------|
| Type        | Range      | Mech    | Elec    | Note:                                  | Signal:        |
| Speedometer | 0-160 MPH  | 82872-P | -       |  |                |
| Tachometers | 10,000 RPM | 82871-P | -       | .5:1 Adj Ratio/Adj Redline             |                |
|             | 10,000 RPM | -       | 82873-P | 4-, 6-, 8-cylinder/<br>Telltale Memory | (Gas/Ignition) |
| 5"          |            |         |         |  |                |
| Tachometers | 10,000 RPM | -       | 82820-P | 4-, 6-, 8-cylinder/<br>Telltale Memory | (Gas/Ignition) |
|             | 10,000 RPM | -       | 82823-P | 4-, 6-, 8-cylinder                     | (Gas/Ignition) |
|             | 12,000 RPM | -       | 82822-P | 4-, 6-, 8-cylinder                     | (Gas/Ignition) |

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions.

| TACK FORCE - CHROME PANEL KITS                       |  |             |  |   |
|--|--|-------------|--|---|
| Panel/Type   | Range(s)                               | Kit Number: | Notes:   | Also Included in Kit:                                   |
| <b>Triple Panel</b>                                  |  |             |  |   |
| Elec Tachometer/<br>Oil Pressure/<br>Water Pressure  | 12,000 RPM/<br>5-100 psi/<br>100-265°F | 82219       | Tach is 5" electric/<br>Gauges are 2-5/8"<br>Mechanicals | 6ft. tubing kit   |
| Fuel Pressure/<br>Oil Pressure/<br>Water Temperature | 1-15psi/<br>5-100 psi/<br>100-265°F    | 82220       | 2-5/8" Mechanical<br>Gauges                              | 2 ea. of 6 ft. tubing kit<br>72" cap. on Water Temp ga. |

Kits includes: Mounting panel and hardware, light kit installation instructions and additional accessories as indicated above.



82219



82220

# Track Force™ - Stainless Steel Bezel



| Type              | Range      | 2-1/16"    |         | 2-5/8"     |         | Note:          | Additional Kit Needed:                      |
|-------------------|------------|------------|---------|------------|---------|----------------|---|
|                   |            | Mech       | Elec    | Mech       | Elec    |                |   |
| Ammeter           | 60-0-60    | -          | 82875-P | -          | 82825-P | Internal Shunt |   |
| Boost (Turbo)     | 0-30/0-15  | 82884-P    | -       | 82834-P    | -       |                | 114840 (6 ft. tube) or 114841 (16 ft. tube) |
| Fuel Level        | 240 Ohm    | -          | 82883-P | -          | 82883-P |                | Senders Page 52                             |
|                   | 90 Ohm     | -          | 82889-P | -          |         |                | Senders Page 52                             |
|                   | 73 Ohm     | -          | 82890-P | -          |         |                | Use OE sender                               |
| Fuel Pressure     | 1-16 psi   | 82876-P*   | -       | 82826-P*   | -       | Use SS hose*   |   |
|                   | 1-15 psi   | -          | 82888-P | -          | -       |                | 114874                                      |
| Oil Pressure      | 5-100 psi  | 82877-P    | -       | 82827-P    |         |                | 114840 (6 ft. tube) or 114841 (16 ft. tube) |
|                   | 10-200 psi | 82878-P    | -       | 82828-P    | -       |                |   |
|                   | 0-100 psi  | -          | 82885-P | -          | -       |                | 114875                                      |
| Oil Temperature   | 140-325°F  | 82880-36P  | -       | -          | -       | Capillary 36"  |   |
|                   | 140-325°F  | 82880-72P  | -       | 82830-72P  | -       | Capillary 72"  |   |
|                   | 140-325°F  | 82880-144P | -       | 82830-144P | -       | Capillary 144" |   |
| Water Temperature | 100-265°F  | 82879-36P  | -       | -          | -       | Capillary 36"  |   |
|                   | 100-265°F  | 82879-72P  | -       | 82829-72P  |         | Capillary 72"  |   |
|                   | 100-265°F  | 82879-144P | -       | 82829-144P |         | Capillary 144" |   |
|                   | 100-280°F  | -          | 82886-P | -          | -       |                | 280ED-F                                     |
| Vacuum            | 0-30 Hg    | 82881-P    | -       | 82831-P    | -       |                | 114842                                      |
| Voltmeter         | 10-16V     | -          | 82882-P | -          | 82832-P |                |   |

\* Mechanical Fuel Pressure gauges must be mounted outside the passenger compartment for safety and braided stainless steel hose must be used for connection.

Kits include: Mounting hardware, light kit (bulb & socket), installation instructions. Purchase senders, tubing or shunts separately.



82858-P



82862



82875

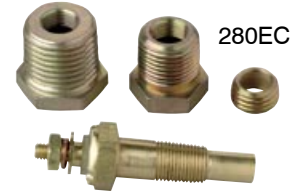


82884

# SENDERS/SHUNTS

**NOTE: We have indicated which temperature or pressure sender is required next to each gauge in the product line section. Please ensure you use the correct sender for proper operation of your gauge.**

| Temperature Senders   |  |
|---|--|
| 114873  | 1/8" NPT; For Imact & Competition Tachs & Gauges Lines   |
| 280EC   | 100-230°F; 1/8" NPT, 5/8" Hex, adapters: 1/4" 3/8" 1/2"  |
| 280EA   | 100-240°F; 1/8" NPT, 5/8" Hex, adapters: 1/4" 3/8" 1/2"  |
| 280ED-F   | 100-280°F; 1/8" NPT, 5/8" Hex, adapters: 1/4" 3/8" 1/2"  |
| 280EE-F   | 140-320°F; 1/8" NPT, 5/8" Hex, adapters: 1/4" 3/8" 1/2"  |
| Pressure Senders  |  |
| 114874  | 15 psi; 1/8" NPT; fuel and oil   |
| 114875  | 100 psi; 1/8" NPT; fuel and oil  |
| 279A  | 80 psi; 1/8" NPT; fuel and oil   |
| 279C  | 150 psi; 1/8" NPT; fuel and oil  |
| Fuel Level Senders  |  |
| Fuel senders fit standard SAE 5-hole mounting, include mounting kit |  |
| 114876  | 240-33.5 Ohms; adjustable from 4-1/2" to 24"; right hand   |
| 439361-F  | 0-90 Ohm 10-15" tank depth; left hand  |
| 439362-F  | 0-90 Ohm 10-15" tank depth, right hand   |
| 439363-D  | 0-90 Ohm 15.5-24" tank depth, left hand  |
| 439364-D  | 0-90 Ohm 15.5-24" tank depth, right hand   |
| 366LP-F   | Fuel sender install kit-convert fuel sender opening in tank to standard SAE 5-hole size, includes: flange, gasket, 5 washers, 5 screws |
| Speed Sensors & Accessories   |  |
| 114877  | Self-powered AC output, two wire with 0.104" tip   |
| 114878  | Hall-effect, 8 pulse, requires 12V, with 0.104" tip  |
| 82527   | Hall-effect, 16 pulse, requires 12V, with 0.104" tip   |
| 82646   | Magnetic sender; Tach: flywheel application; Speed: tone wheel   |
| 114879  | Ford quick-disconnect adapter for 114878 Hall-effect sender (sender not included)  |
| 114880  | 0.104" square drive tip  |
| 114882  | 0.187" drive tang  |
| 114883  | 0.203" drive tang  |
| 407010-F  | Right angle adapter for flexshafts; 1:1; 5/8"; 0.104 square; clockwise   |
| 411335-D  | Right angle adapter for flexshafts; 1:1; 5/8"; 0.104 square; counter-clockwise   |
| 114623  | Odo-Reset button for Competition Tachs & Gauges speedometers   |
| Shunts for Ammeters   |  |
| 407616  | Shunt for 100A ammeters not internally shunted   |
| 413717  | Shunt for 150A ammeters not internally shunted   |



# PROBES/SWITCHES/WARNING LIGHTS

| Exhaust Temperature Probes/Thermocouples (Type K) |  |
|---|--|
| 114653  | 1/4" Street Probe kit with 10' wire & kit                |
| 114654  | 3/16" Street Performance Probe with 10' wire & kit       |
| 114655  | 3/16" High Performance Probe with 10' wire - no fittings |
| 114656  | 1/4" High Performance Probe with 10' wire - no fittings  |
| 114657  | 1/4" x 1/8" NPT Probe Installation Kit                   |
| 114658  | 3/16" x 1/8" NPT Probe Installation Kit                  |
| 114659  | 3/16" Probe Band Kit                                     |
| 114660  | 1/4" Probe Band Clamp Kit                                |

See Tech Info page 92 to determine which probe is best for your application.

NOTE: Use only the supplied extension wire. Do not alter the length or use other types of wiring to connect to the Type-K probe or your gauge will not read accurately.

| Temperature Switches |                                 |
|----------------------|---------------------------------|
| 114884               | 200°F, 1/4" NPT, spade terminal |
| 114885               | 225°F, 1/4" NPT, spade terminal |
| 114886               | 225°F, 1/4" NPT, screw terminal |
| 114887               | 240°F, 1/4" NPT, screw terminal |

Solid brass body, gold-plated contacts; normally open contact; voltage independent; 2/85" in length, bulb .815", 1.00 Hex

Use with Ultra-Alert Light™ warning lights.

| Pressure Switches |                                   |
|-------------------|-----------------------------------|
| 114888            | 10 psi; 1/8-27 NPT male           |
| 114889            | 15 psi; 1/8-27 NPT male           |
| 114890            | 35 psi; 1/8-27 NPT male           |
| 114891            | 60 psi; 1/8-27 NPT male           |
| 114892            | 100 psi; 1/8-27 NPT male          |
| 79380             | Boot for pressure/vacuum switches |

These pressure switches are designed to operate with air, motor oils, transmission oils, jet fuels and other similar hydrocarbon media.

Contacts are silver alloy, gold plated; direct action blade contact

Feature Kapton diaphragms for compatibility with a wide variety of fluids

Use with Ultra-Alert Light™ warning lights.

| Vacuum Switches |   |
|-----------------|---|
| 77342-4         | 4" Hg; normally open; 1/8-27 NPT male   |
| 77343-4         | 4" Hg; normally closed; 1/8-27 NPT male |
| 79380           | Boot for pressure/vacuum switches       |

Contacts are silver alloy, gold plated; direct action blade contact

Feature fluorosilicone rubber for compatibility with a wide variety of fluids.

| Warning Lights - Ultra-Alert Lights™ |   |
|--------------------------------------|---|
| 114907                               | 5" long by 1-5/8" dia, amber LED, gray case |
| 114908                               | 5" long by 1-5/8" dia, red LED, gray case   |
| 114909                               | 5" long by 1-5/8" dia, blue LED, gray case  |

Night cover, mounting hardware and instructions included.

| Warning Lights/Buzzers |  |
|------------------------|--|
| 420125-F               | Warning Light, 12VDC   |
| 825104-D               | Warning Light/Buzzer   |
| 366TJ                  | Warning Light Kit: includes 825104-D and 6psi pressure switch(1/8" PT) and 200°F temperature switch(1/2" PT) |



114653



114654



114655



114660



114884



114889



114907



420125-F



825104-D

| Tubing/Hoses   |  |
|--|--|
| 114840   | Pressure, 6 ft. nylon, male/female comp. fittings            |
| 114841   | Pressure, 16 ft. nylon, male/female comp. fittings           |
| 114842   | Vacuum, 6 ft. hose w/T fitting & 1/8" NPT barbed adapter     |
| 114843   | 3 ft. -4-AN braided stainless steel over nylon with fittings |
| 114844   | 4 ft. -4-AN braided stainless steel over nylon with fittings |
| 114845   | 6 ft. -4-AN braided stainless steel over nylon with fittings |
| Adapters for Electric Temperature Senders              |  |
| 114846   | Std. 1/8" NPT ID X 3/8" NPT OD                               |
| 114847   | Std. 1/8" NPT ID X 1/4" NPT OD                               |
| 114848   | Std. 1/8" NPT ID X 1/2" NPT OD                               |
| 114850   | Metric 1/8" NPT ID - M14X1.5 OD                              |
| 114851   | Metric 1/8" NPT ID - M16X1.5 OD                              |
| 114852   | Metric 1/8" NPT ID - M18X1.5 OD                              |
| Adapters for Electric Pressure Senders                 |  |
| 114849   | Std. 1/8" NPT ID X 1/4" NPT OD                               |
| 114853   | Metric 1/8" NPT ID - M10X1.5 OD                              |
| 114854   | Metric 1/8" NPT ID - M12X1.5 OD                              |
| 114855   | Metric 1/8" NPT ID - M14X1.5 OD                              |
| 114856   | PT 1/8"-28 JIS Male (Empirical Metric)                       |
| Adapters for Mechanical Temperature Gauges             |  |
| 114858   | Steel 5/8"-18 ID to 1/4" NPT OD                              |
| 114859   | Steel 5/8"-18 ID to 3/8" NPT OD                              |
| 114860   | Brass 5/8"-18 ID to 3/8" NPT OD                              |
| 114861   | Steel 5/8"-18 ID to 1/2" NPT OD, SAE Short OD                |
| 114862   | Brass 5/8"-18 ID to 1/2" NPT OD                              |
| 114863   | Brass 5/8"-18 ID to 5/8" NPT OD                              |
| 114864   | Metric 5/8"-18 ID to M14X1.5 OD                              |
| 114865   | Metric 5/8"-18 ID to M16X1.5 OD                              |
| 114866   | Metric 5/8"-18 ID to M18X1.5 OD                              |
| 114601   | Right Angle Adapter, 1/8" NPT Female by -4AN Male            |
| Extensions for Mechanical Temperature Gauges           |  |
| Extra clearance for narrow water passages              |  |
| 114867   | 1/2" NPT temperature bulb extension                          |
| 114868   | 3/8" NPT temperature bulb extension                          |
| Fuel Rail Adapters for Mechanical Fuel Pressure Gauges |  |
| 114869   | 1/16" NPT Male by -4AN Male                                  |
| 114870   | 1/16" NPT Male by 1/8" NPT Female                            |
| 114871   | -4AN Male by -4AN Female 45 Deg. with swivel on Female       |
| 114872   | -4AN Male by -4AN Female 90 Deg. with swivel on Female       |



114840



114842



114844



114846



114849



114858



114601



114867



114871



# LIGHTING/SHIFT LIGHTS

## Replacement Bulbs for Impact and Competition Tachs & Gauges Lines

114896 Lamp, WGB, 1 candle power

114897 Lamp, WGB, 2 candle power

## Replacement Bulbs for Remaining Product Lines

82551 1/2", 12V, 1" long metal socket, one wire

82550 1/2", 12V, 1" long metal socket, two wire

366FK-F 5/8", 12V, 1" long metal socket, one wire

366CH 5/8", 12V, 1" long metal socket, one wire, mounting bracket

366SZ 5/8", 12V, 1" long plastic socket, one wire

366SX 5/8", 12V, 1" long plastic socket, two wire

## Light Boots for Incandescent Bulbs

114910 Red Lamp Filter (3 boots per kit)

114911 Green Lamp Filter (3 boots per kit)

114912 Blue (Lunar White) Lamp Filter (3 boots per kit)

114913 Yellow Lamp Filter (3 boots per kit)

## LED Light Kits for Impact & Competition Tachs & Gauges Lines

Change the color not the gauge! Replace the 194 incandescent bulb with these LED circuit boards for longer life and brighter colors.

114920 Red LED Kit for tachs and speedometers

114921 Red LED Kit for gauges

114922 Green LED Kit for tachs and speedometers

114923 Green LED Kit for gauges

114924 Blue LED Kit for tachs and speedometers

114925 Blue LED Kit for gauges

114953 Red/Orange LED Kit for tachs and speedometers

114952 Red/Orange LED Kit for gauges

114957 White LED Kit for tachs and speedometers

114956 White LED Kit for gauges



114896



366SX



366CH



114910



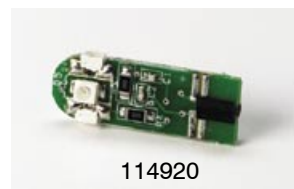
114911



114912  
(Produces bright white light)



114913



114920



Change the color not the gauge!  
Our LED light kits plug in to the light socket. You can change the lighting color anytime.

## Shift Light Kits

For use with 5" or 3-3/8" memory tachometers - not for Ultra-Shift Lights™  
Plug into the connector on the tachometer to receive.

114914 5" x 1-5/8", amber LED, gray case

114915 5" x 1-5/8", red LED, gray case

114916 5" x 1-5/8", blue LED, gray case

## Replacement Shift Light LED Kits

For external shift lights included with 5" tachometers - not for Ultra-Shift Lights™  
Provided for those who wish to change the LED color of the shift light.

114898 Amber Shift Lamp LED kit, 1-5/8" w/night cover

114899 Red Shift Lamp LED kit, 1-5/8" w/night cover

114600 Blue Shift Lamp LED kit, 1-5/8" w/night cover



114914



114600

# BEZELS/FUEL PUMPS

## Replacement Bezels for Competition Tachs & Gauges Line

The bezel on the Competition Tachs & Gauges line can be removed without interfering with the inner workings of the instruments. We have provided the following replacement bezels for those who want to customize their instruments or if a bezel gets damaged..

|        |                                     |
|--------|-------------------------------------|
| 114615 | 2-1/16" Silver replacement bezel    |
| 114616 | 2-5/8" Silver replacement bezel     |
| 114617 | 3-3/8" Silver replacement bezel     |
| 114618 | 5" Silver replacement bezel         |
| 114603 | 2-1/16" Black replacement bezel     |
| 114604 | 2-5/8" Black replacement bezel      |
| 114605 | 3-3/8" Black replacement bezel      |
| 114606 | 5" Black replacement bezel          |
| 114611 | 2-1/16" Paintable replacement bezel |
| 114612 | 2-5/8" Paintable replacement bezel  |
| 114613 | 3-3/8" Paintable replacement bezel  |
| 114614 | 5" Paintable replacement bezel      |

Original Black w/Silver



Black w/Black Bezel



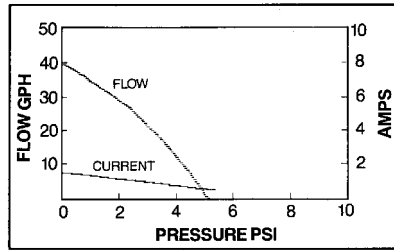
3 Painted Bezels



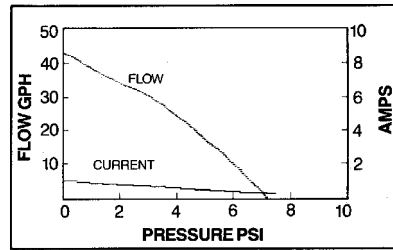
Silver w/Black Bezel



82050



82051



82050, -52, -54

## Electric Fuel Pumps - Gasoline

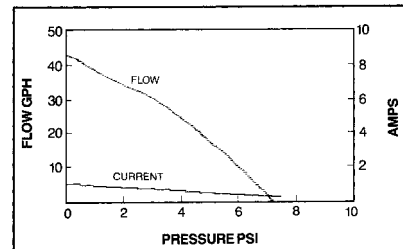
82050 Series (below) is a powerful piston type pump with solid state reliability. Built in filters, microcarbon filter dissipates water, magnetic filter traps metallic particles.

|       |   |
|-------|---|
| 82051 | 12V Neg Ground, 5 psi, 1/4" internal PT                       |
| 82050 | 12V Neg Ground, 7 psi, 1/4" internal PT                       |
| 82052 | 12V Pos/Neg Ground, 7 psi, 1/4" internal PT, double insulated |
| 82504 | 12V Pos/Neg Ground, 7 psi, 1/4" internal PT                   |
| 82053 | Gasoline Fuel Pump Service Kit, Gasket, Filter Element        |

## Electric Fuel Pumps - Marine(Diesel)

Corrosion resistant to prevent leakage. No possibility for accidental grounding. Approved by Underwriters Laboratories and U.S. Coast Guard regulations for diesel applications.

|         |  |
|---------|--|
| 82055   | 12V Pos/Neg Ground, 7 psi, 1/4" internal PT          |
| 82057   | 12V Pos/Neg Ground, 4 psi, 1/4" internal PT          |
| 82058   | Diesel Fuel Pump Service Kit, Gasket, Filter Element |
| 76579-4 | Recommended safety switch                            |



82055



82055

# MOUNTING OPTIONS: CUPS/PANELS/BRACKETS

| Cup Kits  |  |
|---|--|
| The first four cups below fit the Competition Tachs & Gauges product line       |  |
| 114835  | 2-1/16" Chrome plated, for electric and mechanical gauges  |
| 114836  | 2-5/8" Chrome plated, for electric and mechanical gauges   |
| 114837  | 2-1/16" Gray, for electric and mechanical gauges   |
| 114838  | 2-5/8" Gray, for electric and mechanical gauges  |
| The cup below fits the Deluxe line 2-5/8" gauges                                |  |
| 366MP-F   | 2-5/8", black w/strap and mounting hardware  |
| Panels  |  |
| The panels below fit all the Stewart Warner instruments for the specified size  |  |
| 114829  | 2-1/16" Chrome plated, one-hole  |
| 114830  | 2-5/8" Chrome plated, one-hole   |
| 114831  | 2-1/16" Chrome plated, two-hole  |
| 114833  | 2-1/16" Chrome, three-hole   |
| 114834  | 2-5/8" Chrome, three-hole  |
|   | 5-gauge panel w/engine turned insert-available in Spring 2006-see www.StewartWarner.com for part number. |
| Strap & In-Dash Mounting Kit  |  |
| The strap and in-dash kit below fit the Competition Tachs & Gauges product line |  |
| 114839  | Strap and base for 5" and 3-3/8" tachs   |
| 114624  | In-dash mounting kit for 5" and 3-3/8" tachs   |



114836



114837



114839



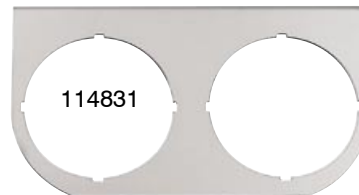
114624



5-Gauge panel available in Spring 2006 (Gauges not included)



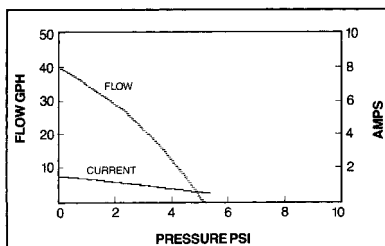
114833



114831



114829



82057

# MOUNTING OPTIONS: PODS

## Gauge Pods for the Competition Tachs & Gauges & Impact™ Product Lines

Today's cars & trucks offer sculpted interiors that present a real challenge for mounting performance gauges. Stewart Warner Gauge Pods provide the solution—they can be installed easily and safely (no obstructions), with a look, fit & finish that complements your vehicle's interior! And, they can be easily painted to ensure a good color match.

- Made from UV-resistant thermoformed ABS—tough & good-looking
- Easy-to-install & maintain
- Easily painted to match vehicle interior
- Each pod specially designed to ensure a great fit
- Great looking with Competition Tachs & Gauges installed!



Specialty Dash Pod (Kit#116000)

### Single/Dual Gauge Pods

Thermoformed, sculpted housings that contain either one gauge (single) or two gauges (dual), that mount to the "A" pillar of your truck or car. Single or Dual Gauge Pods are shorter than the "A" pillar.

### Full-Pillar Gauge Pods

Cover either the entire "A" pillar, or in some cases replace it entirely. They typically contain two to three gauges & may be painted to match your car or truck interior.

### Cluster Bezels

Special thermoformed inserts that fit over your stock instrument cluster. They can be used in conjunction with single, Dual or Full-Pillar Gauge Pods to further accessorize your vehicle.

### Specialty Pods

Designed for unique locations such as on top of the dash, steering column or vents, these units contain gauges and even tachometers for special applications.

NOTE: These gauge pods have been designed to fit the Competition Tachs & Gauges and Impact™ series of instruments.



Full-Pillar Pod (Kit#114802)

Dual Gauge Pod (Kit#114812)



Cluster Bezel (Kit#114822)

(Note: Gauges not included with pods.)

## Truck Pods: Chevrolet



116049



116082



116042



116053



116052



114823

| CHEVROLET |       |                           |   |
|-----------|-------|---------------------------|---|
| Kit       | Years | Truck/SUV/Van             | Pod Type & Gauge Size                     |
| 116082    | 94-98 | Blazer                    | Dual Full Pillar (2-1/16")                |
| 116053    | 95-98 | Blazer                    | Dual Pod (2-1/16")                        |
| 116054    | 95-98 | Blazer                    | Single Pod (2-1/16")                      |
| 114917    | 99    | C/K                       | Dual Full Pillar (2-1/16")                |
| 116048    | 99    | C/K                       | Single Pod (2-1/16")                      |
| 116049    | 99    | C/K                       | Single Pod (2-5/8")                       |
| 116079    | 99    | C/K                       | Triple Full Pillar (2-1/16")              |
| 116077    | 88-94 | Full Size Truck           | Dual Full Pillar (2-1/16")                |
| 116047    | 88-94 | Full Size Truck           | Dual Pod (2-1/16")                        |
| 116078    | 88-94 | Full Size Truck           | Triple Full Pillar (2-1/16")              |
| 116048    | 88-98 | Full Size Truck           | Single Pod (2-1/16")                      |
| 116049    | 88-98 | Full Size Truck           | Single Pod (2-5/8")                       |
| 114823    | 00-03 | Full Size Truck           | Dual Full Pillar (2-1/16")                |
| 114917    | 95-98 | Full Size Truck           | Dual Full Pillar (2-1/16")                |
| 116079    | 95-98 | Full Size Truck           | Triple Full Pillar (2-1/16")              |
| 116042    | 00-03 | Full Size Truck & 00+ SUV | Single Steering Pod (Automatic) (2-1/16") |
| 116050    | 95-98 | Full Size Truck/Duramax   | Dual Pod (2-1/16")                        |
| 116081    | 00-03 | Full Size Truck/Duramax   | Triple Full Pillar (2-1/16")              |
| 116051    | 00-03 | Full Size Truck           | Dual Pod (2-1/16")                        |
| 116052    | 00-03 | Full Size Truck           | Single Pod (2-1/16")                      |
| 116083    | 86-93 | S-10                      | Dual Full Pillar (2-1/16")                |
| 116055    | 86-93 | S-10                      | Dual Pod (2-1/16")                        |
| 116084    | 86-93 | S-10                      | Triple Full Pillar (2-1/16")              |
| 116053    | 94-03 | S-10                      | Dual Pod (2-1/16")                        |
| 116054    | 94-03 | S-10                      | Single Pod (2-1/16")                      |
| 116082    | 94-98 | S-10                      | Dual Full Pillar (2-1/16")                |
| 116051    | 00    | Suburban                  | Dual Pod (2-1/16")                        |
| 116052    | 00    | Suburban                  | Single Pod (2-1/16")                      |

## Truck Pods: Dodge



| DODGE  |       |                                      |   |
|--------|-------|--------------------------------------|---|
| Kit    | Years | Truck/SUV/Van                        | Pod Type & Gauge Size                           |
| 116046 | 02    | 1500                                 | Dual Steering Pod (2-1/16")                     |
| 116062 | 97-02 | Durango                              | Dual Pod (2-1/16")                              |
| 116056 | 86-93 | Ram                                  | Dual Pod (2-1/16")                              |
| 116057 | 86-93 | Ram                                  | Single Pod (2-1/16")                            |
| 116085 | 94-97 | Ram                                  | Dual Full Pillar (2-1/16")                      |
| 116058 | 94-97 | Ram                                  | Dual Pod (2-1/16")                              |
| 116059 | 94-97 | Ram                                  | Single Pod (2-1/16")                            |
| 114816 | 94-97 | Ram                                  | Triple Full Pillar (2-1/16")                    |
| 116045 | 94-02 | Ram (not 02 1500)                    | Single Steering Pod (2-1/16")                   |
| 116088 | 98-02 | Ram (Infinity Speaker) (not 02 1500) | Dual Full Pillar (2-1/16")                      |
| 116086 | 98-02 | Ram (not 02 1500)                    | Dual Full Pillar (2-1/16")                      |
| 114817 | 98-02 | Ram (not 02 1500)                    | Dual Pod (2-1/16")                              |
| 116061 | 98-02 | Ram (not 02 1500)                    | Single Pod (2-1/16")                            |
| 116087 | 98-02 | Ram (not 02 1500)                    | Triple Full Pillar (2-1/16")                    |
| 114811 | 98-02 | Ram with speaker (not 02 1500)       | Triple Full Pillar (2-1/16")                    |
| 116196 | 02-UP | Ram                                  | Triple Dash Pod (2-1/16")                       |
| 116046 | 03    | Ram                                  | Dual Steering Pod (2-1/16")                     |
| 116194 | 03-04 | Ram                                  | Dual Full Pillar (2-1/16")<br>(Color Matched)   |
| 116195 | 03-04 | Ram                                  | Triple Full Pillar (2-1/16")<br>(Color Matched) |



114817



116057



114816



114811



116045



116086



116046

# MOUNTING OPTIONS: PODS

## Truck Pods: Ford/Toyota



114818



114822



116072



114808



116043



114813

| FORD   |       |                         |  |
|--------|-------|-------------------------|--|
| Kit    | Years | Truck/SUV/Van           | Pod Type & Gauge Size                      |
| 116067 | 98-03 | Expedition              | Dual Pod (2-1/16")                         |
| 116068 | 98-03 | Expedition              | Single Pod (2-1/16")                       |
| 116072 | 95-99 | Explorer                | Dual Pod (2-1/16")                         |
| 116090 | 97-02 | F-150                   | Dual Full Pillar (2-1/16")                 |
| 116091 | 97-02 | F-150                   | Triple Full Pillar (2-1/16")               |
| 116067 | 97-03 | F-150                   | Dual Pod (2-1/16")                         |
| 116068 | 97-03 | F-150                   | Dual Pod (2-1/16")                         |
| 116064 | 87-97 | F-Series (not 97 F-150) | Dual Pod (2-1/16")                         |
| 116065 | 87-97 | F-Series (not 97 F-150) | Single Pod (2-1/16")                       |
| 116066 | 87-97 | F-Series (not 97 F-150) | Single Pod (2-5/8")                        |
| 116089 | 92-97 | F-Series (not 97 F-150) | Dual Full Pillar (2-1/16")                 |
| 114818 | 92-97 | F-Series (not 97 F-150) | Triple Full Pillar (2-1/16")               |
| 116067 | 98-03 | F-Series                | Dual Pod (2-1/16")                         |
| 116068 | 98-03 | F-Series                | Single Pod (2-1/16")                       |
| 116072 | 93-00 | Ranger                  | Dual Pod (2-1/16")                         |
| 114808 | 99-03 | Super Duty              | Dual Full Pillar (2-1/16")                 |
| 114822 | 99-03 | Super Duty              | Dual Gauge Bezel (2-1/16")                 |
| 116070 | 99-03 | Super Duty              | Dual Pod (2-1/16")                         |
| 116071 | 99-03 | Super Duty              | Single Pod (2-1/16")                       |
| 116043 | 99-03 | Super Duty              | Single Steering Pod (Auto-matic) (2-1/16") |
| 114800 | 99-03 | Super Duty              | Triple Full Pillar (2-1/16")               |
| 116074 | 92-00 | Van                     | Dual Pod (2-1/16")                         |

| TOYOTA |       |               |                       |
|--------|-------|---------------|-----------------------|
| Kit    | Years | Truck/SUV/Van | Pod Type & Gauge Size |
| 114813 | 96-01 | 4Runner       | Single Pod (2-1/16")  |
| 116076 | 01-02 | Tacoma        | Single Pod (2-1/16")  |
| 114813 | 95-00 | Tacoma        | Single Pod (2-1/16")  |

# MOUNTING OPTIONS: PODS



## Car Pods: Acura/Audi/BMW/ Buick/Oldsmobile

| ACURA  |       |                  |                              |
|--------|-------|------------------|------------------------------|
| Kit    | Years | Car              | Pod Type/Gauge Size          |
| 116096 | 90-93 | Integra (2 door) | Single Pod (2-1/16")         |
| 114814 | 90-93 | Integra (2 Door) | Dual Pod (2-1/16")           |
| 116094 | 94-01 | Integra          | Dual Gauge Bezel (2-1/16")   |
| 116097 | 94-01 | Integra (2 Door) | Dual Pod (2-1/16")           |
| 116099 | 94-01 | Integra (2 door) | Single Pod (2-1/16")         |
| 116149 | 94-01 | Integra (2 door) | Dual Full Pillar (2-1/16")   |
| 116151 | 94-01 | Integra (2 door) | Triple Full Pillar (2-1/16") |
| 114807 | 94-01 | Integra (2 Door) | Dual Pod (2-1/16")           |



| AUDI   |       |     |                      |
|--------|-------|-----|----------------------|
| Kit    | Years | Car | Pod Type/Gauge Size  |
| 116101 | 96-98 | A4  | Dual Pod (2-1/16")   |
| 116102 | 96-98 | A4  | Single Pod (2-1/16") |

| BMW    |       |                   |                     |
|--------|-------|-------------------|---------------------|
| Kit    | Years | Car               | Pod Type/Gauge Size |
| 116104 | 93-98 | 3 Series (2 Door) | Dual Pod (2-1/16")  |
| 116103 | 93-98 | 3 Series (4 Door) | Dual Pod (2-1/16")  |



| BUICK/OLDSMOBILE |       |         |                      |
|------------------|-------|---------|----------------------|
| Kit              | Years | Car     | Pod Type/Gauge Size  |
| 116028           | 78-87 | Cutlass | Dual Pod (2-1/16")   |
| 116029           | 78-87 | Cutlass | Single Pod (2-1/16") |
| 114819           | 78-87 | Cutlass | Dual Pod (2-1/16")   |
| 114819           | 78-87 | Regal   | Dual Pod (2-1/16")   |
| 116014           | 70-72 | Skylark | Dual Pod (2-1/16")   |





## Car Pods: Chevrolet/Chrysler/ Dodge/DSM



116001



114621



116029



114801



114806



114828

| CHEVROLET |       |                   |                              |
|-----------|-------|-------------------|------------------------------|
| Kit       | Years | Car               | Pod Type/Gauge Size          |
| 116001    | 68-69 | Camaro            | 4-Gauge Console (2-1/16")    |
| 114821    | 82-92 | Camaro            | Dual Pod (2-1/16")           |
| 116037    | 82-92 | Camaro T-Top      | Triple Full Pillar (2-1/16") |
| 116021    | 93-02 | Camaro            | Single Pod (2-1/16")         |
| 114820    | 93-02 | Camaro            | Dual Pod (2-1/16")           |
| 116038    | 97-02 | Camaro T-Top      | Dual Full Pillar (2-1/16")   |
| 116039    | 97-02 | Camaro T-Top      | Triple Full Pillar (2-1/16") |
| 116019    | 95-02 | Cavalier          | Dual Pod (2-1/16")           |
| 116014    | 68-72 | Chevelle          | Dual Pod (2-1/16")           |
| 116036    | 97-02 | Corvette          | Dual Full Pillar (2-1/16")   |
| 116040    | 92-96 | Impala SS/Caprice | Triple Full Pillar (2-1/16") |
| 116014    | 70-72 | Monte Carlo       | Dual Pod (2-1/16")           |
| 116028    | 78-87 | Monte Carlo       | Dual Pod (2-1/16")           |
| 116029    | 78-87 | Monte Carlo       | Single Pod (2-1/16")         |
| 114819    | 78-87 | Monte Carlo       | Dual Pod (2-1/16")           |
| 116001    | 68-74 | Nova              | 4-Gauge Console (2-1/16")    |
| 116019    | 95-02 | Z24               | Dual Pod (2-1/16")           |

| CHRYSLER/DODGE |       |                 |                              |
|----------------|-------|-----------------|------------------------------|
| Kit            | Years | Car             | Pod Type/Gauge Size          |
| 114801         | 94-99 | Neon (2&4 Door) | Dual Pod (2-1/16")           |
| 116025         | 00-03 | Neon            | Dual Pod (2-1/16")           |
| 114802         | 01-02 | PT Cruiser      | Dual Full Pillar (2-1/16")   |
| 114805         | 01-02 | PT Cruiser      | Triple Full Pillar (2-1/16") |
| 116126         | 91-98 | Stealth         | Dual Pod (2-1/16")           |
| 116127         | 91-98 | Stealth         | Single Pod (2-1/16")         |

| DSM    |       |                                 |                              |
|--------|-------|---------------------------------|------------------------------|
| Kit    | Years | Car                             | Pod Type/Gauge Size          |
| 114806 | 90-94 | Eclipse/Laser/Talon             | Dual Pod (2-1/16")           |
| 114825 | 90-94 | Eclipse/Laser/Talon             | Dual Full Pillar (2-1/16")   |
| 116122 | 90-94 | Eclipse/Laser/Talon             | Single Pod (2-1/16")         |
| 116095 | 95-99 | Eclipse                         | Dual Gauge Bezel (2-1/16")   |
| 114824 | 95-99 | Eclipse/Talon                   | Dual Pod (2-1/16")           |
| 114828 | 95-99 | Eclipse/Talon                   | Triple Full Pillar (2-1/16") |
| 116123 | 95-99 | Eclipse/Talon                   | Single Pod (2-1/16")         |
| 116167 | 95-99 | Eclipse/Talon (not convertible) | Dual Full Pillar (2-1/16")   |

# MOUNTING OPTIONS: PODS

## Car Pods: Eagle/Ford



| EAGLE  |       |                         |                              |
|--------|-------|-------------------------|------------------------------|
| Kit    | Years | Car                     | Pod Type/Gauge Size          |
| 116122 | 90-94 | Talon                   | Single Pod (2-1/16")         |
| 114806 | 90-94 | Talon                   | Dual Pod (2-1/16")           |
| 114825 | 90-94 | Talon                   | Dual Full Pillar (2-1/16")   |
| 114824 | 95-99 | Talon                   | Dual Pod (2-1/16")           |
| 114828 | 95-99 | Talon                   | Triple Full Pillar (2-1/16") |
| 116123 | 95-99 | Talon                   | Single Pod (2-1/16")         |
| 116167 | 95-99 | Talon (not convertible) | Dual Full Pillar (2-1/16")   |

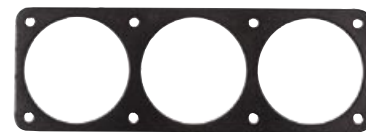
114824



| FORD   |       |                     |  |
|--------|-------|---------------------|--|
| Kit    | Years | Car                 | Pod Type/Gauge Size                                |
| 116007 | 00-01 | Focus               | Dual Pod (2-1/16")                                 |
| 116192 | 02-UP | Focus               | Dual Full Pillar (2-1/16")                         |
| 116193 | 02-UP | Focus               | Triple Full Pillar (2-1/16")                       |
| 116005 | 79-93 | Mustang             | Single Pod (2-5/8")                                |
| 116004 | 79-93 | Mustang             | Single Pod (2-1/16")                               |
| 116006 | 79-93 | Mustang             | Dual Pod (2-5/8")                                  |
| 114803 | 79-93 | Mustang             | Dual Pod (2-1/16")                                 |
| 116171 | 87-93 | Mustang             | 5" Tach and Dual 2-5/8" Gauge Dash Pod             |
| 116173 | 87-93 | Mustang             | Triple Gauge Cage No Vents (2-5/8")                |
| 116174 | 87-93 | Mustang             | Dual Gauge Cage With Vents (2-5/8")                |
| 116175 | 87-93 | Mustang             | Dual Gauge Cage No Vents (2-5/8")                  |
| 116176 | 87-93 | Mustang             | Satin Aluminum Triple Gauge Cage No Vents (2-5/8") |
| 116177 | 87-93 | Mustang             | Satin Aluminum Dual Gauge Cage With Vents (2-5/8") |
| 116178 | 87-93 | Mustang             | Satin Aluminum Dual Gauge Cage No Vents (2-5/8")   |
| 116030 | 87-93 | Mustang Hard Top    | Dual Full Pillar (2-1/16")                         |
| 116031 | 87-93 | Mustang Hard Top    | Triple Full Pillar (2-1/16")                       |
| 116032 | 87-93 | Mustang Hard Top    | Dual Full Pillar (2-5/8")                          |
| 116033 | 87-93 | Mustang Hard Top    | Triple Full Pillar (2-5/8")                        |
| 116002 | 94-00 | Mustang             | Dual Gauge Bezel (2-1/16")                         |
| 116012 | 94-00 | Mustang Convertible | Dual Pod (2-1/16")                                 |
| 116000 | 94-02 | Mustang             | Dual Dash Pod (2-1/16")                            |
| 116003 | 94-02 | Mustang             | Single Steering Pod (2-1/16")                      |
| 116011 | 94-02 | Mustang Hard Top    | Single Pod (2-1/16")                               |
| 116034 | 94-02 | Mustang Hard Top    | Dual Full Pillar (2-1/16")                         |
| 116035 | 94-02 | Mustang Hard Top    | Triple Full Pillar (2-1/16")                       |
| 114812 | 94-02 | Mustang Hard Top    | Dual Pod (2-1/16")                                 |



116171



116173



116031



116034



116003



114812

# MOUNTING OPTIONS: PODS

## Car Pods: Honda/Hyundai/Mazda



114626



114827



116161



116093



114804



116130

| HONDA  |       |                      |                              |
|--------|-------|----------------------|------------------------------|
| Kit    | Years | Car                  | Pod Type/Gauge Size          |
| 116110 | 98-02 | Accord (2 Door)      | Dual Pod (2-1/16")           |
| 116108 | 94-97 | Accord (2&3 Door)    | Dual Pod (2-1/16")           |
| 116109 | 94-97 | Accord (2&3 door)    | Single Pod (2-1/16")         |
| 116154 | 88-91 | Civic (2 door)       | Dual Full Pillar (2-1/16")   |
| 116155 | 88-91 | Civic (2 door)       | Triple Full Pillar (2-1/16") |
| 116107 | 88-91 | Civic/CRX (2&3 door) | Single Pod (2-1/16")         |
| 114826 | 88-91 | Civic/CRX (2&3 Door) | Dual Pod (2-1/16")           |
| 116112 | 92-95 | Civic (2&3 door)     | Single Pod (2-5/8")          |
| 116156 | 92-95 | Civic (2&3 door)     | Dual Full Pillar (2-1/16")   |
| 116158 | 92-95 | Civic (2&3 door)     | Triple Full Pillar (2-1/16") |
| 114810 | 92-95 | Civic (2&3 Door)     | Dual Pod (2-1/16")           |
| 114827 | 92-95 | Civic (2&3 Door)     | Single Pod (2-1/16")         |
| 116093 | 96-00 | Civic                | Dual Gauge Bezel (2-1/16")   |
| 116161 | 96-00 | Civic (2 door)       | Dual Full Pillar (2-1/16")   |
| 116163 | 96-00 | Civic (2 door)       | Triple Full Pillar (2-1/16") |
| 116113 | 96-00 | Civic (2&3 Door)     | Dual Pod (2-1/16")           |
| 116115 | 96-00 | Civic (2&3 door)     | Single Pod (2-1/16")         |
| 116119 | 92-96 | Prelude              | Dual Pod (2-1/16")           |
| 116118 | 97-01 | Prelude              | Single Pod (2-1/16")         |
| 116117 | 97-01 | Prelude              | Dual Pod (2-1/16")           |

| HYUNDAI |       |         |                              |
|---------|-------|---------|------------------------------|
| Kit     | Years | Car     | Pod Type/Gauge Size          |
| 116186  | 03-UP | Tiburon | Dual Full Pillar (2-1/16")   |
| 116187  | 03-UP | Tiburon | Triple Full Pillar (2-1/16") |

| MAZDA  |       |         |                              |
|--------|-------|---------|------------------------------|
| Kit    | Years | Car     | Pod Type/Gauge Size          |
| 114809 | 90-98 | Miata   | Dual Pod (2-1/16")           |
| 116179 | 02-UP | Protege | Dual Full Pillar (2-1/16")   |
| 116180 | 02-UP | Protege | Triple Full Pillar (2-1/16") |
| 116129 | 86-89 | RX7     | Single Pod (2-1/16")         |
| 114815 | 86-89 | RX7     | Dual Pod (2-1/16")           |
| 116130 | 93-95 | RX7     | Single Pod (2-1/16")         |
| 114804 | 93-95 | RX7     | Dual Pod (2-1/16")           |

# MOUNTING OPTIONS: PODS



## Car Pods: Mitsubishi/Nissan/ Plymouth

| MITSUBISHI |       |                           |                              |
|------------|-------|---------------------------|------------------------------|
| Kit        | Years | Car                       | Pod Type/Gauge Size          |
| 116126     | 91-98 | 3000 GT                   | Dual Pod (2-1/16")           |
| 116127     | 91-98 | 3000 GT                   | Single Pod (2-1/16")         |
| 116122     | 90-94 | Eclipse                   | Single Pod (2-1/16")         |
| 114806     | 90-94 | Eclipse                   | Dual Pod (2-1/16")           |
| 114825     | 90-94 | Eclipse                   | Dual Full Pillar (2-1/16")   |
| 116095     | 95-99 | Eclipse                   | Dual Gauge Bezel (2-1/16")   |
| 116123     | 95-99 | Eclipse                   | Single Pod (2-1/16")         |
| 114824     | 95-99 | Eclipse                   | Dual Pod (2-1/16")           |
| 114828     | 95-99 | Eclipse                   | Triple Full Pillar (2-1/16") |
| 116167     | 95-99 | Eclipse (not convertible) | Dual Full Pillar (2-1/16")   |
| 116184     | 03-04 | EVO (Lancer Evolution)    | Dual Full Pillar (2-1/16")   |
| 116185     | 03-04 | EVO (Lancer Evolution)    | Triple Full Pillar (2-1/16") |

116126



114825



116138



| NISSAN |       |               |                              |
|--------|-------|---------------|------------------------------|
| Kit    | Years | Car           | Pod Type/Gauge Size          |
| 116140 | 89-94 | 240SX         | Dual Pod (2-1/16")           |
| 116141 | 95-98 | 240SX         | Dual Pod (2-1/16")           |
| 116137 | 90-96 | 300ZX         | Dual Pod (2-1/16")           |
| 116138 | 90-96 | 300ZX         | Single Pod (2-1/16")         |
| 116181 | 03-UP | 350Z          | Dual Full Pillar (2-1/16")   |
| 116139 | 95-99 | Maxima        | Dual Pod (2-1/16")           |
| 116182 | 01-UP | Sentra Spec V | Dual Full Pillar (2-1/16")   |
| 116183 | 01-UP | Sentra Spec V | Triple Full Pillar (2-1/16") |



114806

| PLYMOUTH |       |       |                            |
|----------|-------|-------|----------------------------|
| Kit      | Years | Car   | Pod Type/Gauge Size        |
| 116122   | 90-94 | Laser | Single Pod (2-1/16")       |
| 114806   | 90-94 | Laser | Dual Pod (2-1/16")         |
| 114825   | 90-94 | Laser | Dual Full Pillar (2-1/16") |

114825



116021



116122



114820



# MOUNTING OPTIONS: PODS



## Car Pods: Pontiac/Subaru/Toyota/Volkswagen



| PONTIAC |       |                |                              |
|---------|-------|----------------|------------------------------|
| Kit     | Years | Car            | Pod Type/Gauge Size          |
| 114821  | 82-92 | Firebird       | Dual Pod (2-1/16")           |
| 116037  | 82-92 | Firebird T-Top | Triple Full Pillar (2-1/16") |
| 116021  | 93-02 | Firebird       | Single Pod (2-1/16")         |
| 114820  | 93-02 | Firebird       | Dual Pod (2-1/16")           |
| 116038  | 93-02 | Firebird T-Top | Dual Full Pillar (2-1/16")   |
| 116039  | 93-02 | Firebird T-Top | Triple Full Pillar (2-1/16") |
| 116028  | 78-87 | Grand Prix     | Dual Pod (2-1/16")           |
| 116029  | 78-87 | Grand Prix     | Single Pod (2-1/16")         |
| 116014  | 68-72 | GTO            | Dual Pod (2-1/16")           |
| 116014  | 68-72 | LeMans         | Dual Pod (2-1/16")           |

| SUBARU |       |                     |                              |
|--------|-------|---------------------|------------------------------|
| Kit    | Years | Car                 | Pod Type/Gauge Size          |
| 116120 | 93-00 | Impreza             | Dual Pod (2-1/16")           |
| 116165 | 02+   | Impreza (not wagon) | Dual Full Pillar (2-1/16")   |
| 116166 | 02+   | Impreza (not wagon) | Triple Full Pillar (2-1/16") |
| 116165 | 02+   | WRX                 | Dual Full Pillar (2-1/16")   |
| 116166 | 02+   | WRX                 | Triple Full Pillar (2-1/16") |
| 116191 | 02-04 | WRX                 | Dual Gauge Bezel (2-1/16")   |

| TOYOTA |       |          |                              |
|--------|-------|----------|------------------------------|
| Kit    | Years | Car      | Pod Type/Gauge Size          |
| 116135 | 00-03 | Celica   | Dual Pod (2-1/16")           |
| 116131 | 90-95 | MR2      | Dual Pod (2-1/16")           |
| 116132 | 90-95 | MR2      | Single Pod (2-1/16")         |
| 116188 | ALL   | Scion xB | Dual Full Pillar (2-1/16")   |
| 116189 | ALL   | Scion xB | Triple Full Pillar (2-1/16") |
| 116190 | ALL   | Scion xB | Quad Full Pillar (2-1/16")   |
| 116133 | 93-97 | Supra    | Dual Pod (2-1/16")           |

| VOLKSWAGEN |       |        |                           |
|------------|-------|--------|---------------------------|
| Kit        | Years | Car    | Pod Type/Gauge Size       |
| 116092     | 98-02 | Beetle | Triple Dash Pod (2-1/16") |
| 116143     | 93-98 | Golf   | Dual Pod (2-1/16")        |
| 116144     | 93-98 | Golf   | Single Pod (2-1/16")      |
| 116145     | 99-00 | Golf   | Dual Pod (2-1/16")        |
| 116146     | 99-00 | Golf   | Single Pod (2-1/16")      |
| 116143     | 93-98 | Jetta  | Dual Pod (2-1/16")        |
| 116144     | 93-98 | Jetta  | Single Pod (2-1/16")      |
| 116147     | 99-00 | Jetta  | Dual Pod (2-1/16")        |
| 116148     | 99-00 | Jetta  | Single Pod (2-1/16")      |

# MECHANICAL TEMPERATURE

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 40-130°C Mechanical Temperature  |             |         |        |                |                                       |         |
|----------------------------------|-------------|---------|--------|----------------|---------------------------------------|---------|
| Model #                          | Line        | Size    | Dial   | Bezel          | Notes                                 | Sender* |
| 114343                           | Competition | 2-1/16" | Silver | Silver         | Water Temp 1.8m capillary             | N/A     |
| 114342                           | Competition | 2-1/16" | Black  | Silver         | Water Temp 1.8m capillary             | N/A     |
| 114344                           | Competition | 2-1/16" | White  | Black          | Water Temp 1.8m capillary             | N/A     |
| 82394-72                         | Deluxe      | 2-1/16" | Black  | Stainless      | Water Temp 1.8m capillary             | N/A     |
| 82394-96                         | Deluxe      | 2-1/16" | Black  | Stainless      | Water Temp 2.4m capillary             | N/A     |
| 82394-144                        | Deluxe      | 2-1/16" | Black  | Stainless      | Water Temp 3.6m capillary             | N/A     |
| 60-160°C Mechanical Temperature  |             |         |        |                |                                       |         |
| Model #                          | Line        | Size    | Dial   | Bezel          | Notes                                 | Sender* |
| 114346                           | Competition | 2-1/16" | Silver | Silver         | Oil Temp 1.8m capillary               | N/A     |
| 114345                           | Competition | 2-1/16" | Black  | Silver         | Oil Temp 1.8m capillary               | N/A     |
| 114347                           | Competition | 2-1/16" | White  | Black          | Oil Temp 1.8m capillary               | N/A     |
| 82395-72                         | Deluxe      | 2-1/16" | Black  | Stainless      | Oil Temp 1.8m capillary               | N/A     |
| 82395-96                         | Deluxe      | 2-1/16" | Black  | Stainless      | Oil Temp 2.4m capillary               | N/A     |
| 82395-144                        | Deluxe      | 2-1/16" | Black  | Stainless      | Oil Temp 3.6m capillary               | N/A     |
| 100-250°F Mechanical Temperature |             |         |        |                |                                       |         |
| Model #                          | Line        | Size    | Dial   | Bezel          | Notes                                 | Sender* |
| 82210-36                         | Standard    | 2-1/32" | Black  | Flat/Stainless | Temperature 36" capillary (No Light)  | N/A     |
| 82210-48                         | Standard    | 2-1/32" | Black  | Flat/Stainless | Temperature 48" capillary (No Light)  | N/A     |
| 82210-60                         | Standard    | 2-1/32" | Black  | Flat/Stainless | Temperature 60" capillary (No Light)  | N/A     |
| 82210-72                         | Standard    | 2-1/32" | Black  | Flat/Stainless | Temperature 72" capillary (No Light)  | N/A     |
| 82210-144                        | Standard    | 2-1/32" | Black  | Flat/Stainless | Temperature 144" capillary (No Light) | N/A     |
| 100-260°F Mechanical Temperature |             |         |        |                |                                       |         |
| Model #                          | Line        | Size    | Dial   | Bezel          | Notes                                 | Sender* |
| 114555                           | Competition | 2-1/16" | Silver | Silver         | Water Temp 100-260°F/6' cap           | N/A     |
| 114554                           | Competition | 2-1/16" | Black  | Silver         | Water Temp 100-260°F/6' cap           | N/A     |
| 114556                           | Competition | 2-1/16" | White  | White          | Water Temp 100-260°F/6' cap           | N/A     |
| 114395                           | Competition | 2-1/16" | Silver | Silver         | Water Temp 100-260°F/8' cap           | N/A     |
| 114394                           | Competition | 2-1/16" | Black  | Silver         | Water Temp 100-260°F/8' cap           | N/A     |
| 114396                           | Competition | 2-1/16" | White  | Black          | Water Temp 100-260°F/8' cap           | N/A     |
| 114561                           | Competition | 2-1/16" | Silver | Silver         | Water Temp 100-260°F/12' cap          | N/A     |
| 114560                           | Competition | 2-1/16" | Black  | Silver         | Water Temp 100-260°F/12' cap          | N/A     |
| 114562                           | Competition | 2-1/16" | White  | Black          | Water Temp 100-260°F/12' cap          | N/A     |
| 114558                           | Competition | 2-5/8"  | Silver | Silver         | Water Temp 100-260°F/6' cap           | N/A     |
| 114557                           | Competition | 2-5/8"  | Black  | Silver         | Water Temp 100-260°F/6' cap           | N/A     |
| 114559                           | Competition | 2-5/8"  | White  | Black          | Water Temp 100-260°F/6' cap           | N/A     |
| 114398                           | Competition | 2-5/8"  | Silver | Silver         | Water Temp 100-260°F/8' cap           | N/A     |
| 114397                           | Competition | 2-5/8"  | Black  | Silver         | Water Temp 100-260°F/8' cap           | N/A     |
| 114399                           | Competition | 2-5/8"  | White  | Black          | Water Temp 100-260°F/8' cap           | N/A     |
| 114564                           | Competition | 2-5/8"  | Silver | Silver         | Water Temp 100-260°F/12' cap          | N/A     |
| 114563                           | Competition | 2-5/8"  | Black  | Silver         | Water Temp 100-260°F/12' cap          | N/A     |
| 114565                           | Competition | 2-5/8"  | White  | Black          | Water Temp 100-260°F/12' cap          | N/A     |
| 100-265°F Mechanical Temperature |             |         |        |                |                                       |         |
| Model #                          | Line        | Size    | Dial   | Bezel          | Notes                                 | Sender* |
| 82326-60                         | Deluxe      | 2-1/16" | Black  | Stainless      | Water Temp 60" capillary              | N/A     |
| 82409-60                         | Deluxe      | 2-5/8"  | Black  | Stainless      | Water Temp 60" capillary              | N/A     |
| 82326-72                         | Deluxe      | 2-1/16" | Black  | Stainless      | Water Temp 72" capillary              | N/A     |
| 82409-72                         | Deluxe      | 2-5/8"  | Black  | Stainless      | Water Temp 72" capillary              | N/A     |
| 82326-96                         | Deluxe      | 2-1/16" | Black  | Stainless      | Water Temp 96" capillary              | N/A     |
| 82326-120                        | Deluxe      | 2-1/16" | Black  | Stainless      | Water Temp 120" capillary             | N/A     |
| 82326-144                        | Deluxe      | 2-1/16" | Black  | Stainless      | Water Temp 144" capillary             | N/A     |
| 82409-144                        | Deluxe      | 2-5/8"  | Black  | Stainless      | Water Temp 144" capillary             | N/A     |

\* See page 54 for adapters and bulb extensions for mechanical temperature gauges.

# MECHANICAL TEMPERATURE

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 100-265°F Mechanical Temperature (Continued) |              |         |                |                    |                           |         |
|--|--------------|---------|----------------|--------------------|---------------------------|---------|
| Model #                                      | Line         | Size    | Dial           | Bezel              | Notes                     | Sender* |
| 82480-72                                     | Wings        | 2-1/16" | Black          | Chrome             | Water Temp 72" capillary  | N/A     |
| 82479-72                                     | Wings        | 2-1/16" | White          | Chrome             | Water Temp 72" capillary  | N/A     |
| 82480-96                                     | Wings        | 2-1/16" | Black          | Chrome             | Water Temp 96" capillary  | N/A     |
| 82479-96                                     | Wings        | 2-1/16" | White          | Chrome             | Water Temp 96" capillary  | N/A     |
| 82480-144                                    | Wings        | 2-1/16" | Black          | Chrome             | Water Temp 144" capillary | N/A     |
| 82479-144                                    | Wings        | 2-1/16" | White          | Chrome             | Water Temp 144" capillary | N/A     |
| 82844  | Power Series | 2-1/16" | Blue/Gray Ring | Chrome             | Water Temp 72" capillary  | N/A     |
| 82842  | Power Series | 2-1/16" | Burgundy Ring  | Chrome             | Water Temp 72" capillary  | N/A     |
| 82843  | Power Series | 2-1/16" | Titanium Ring  | Chrome             | Water Temp 72" capillary  | N/A     |
| 284B36                                       | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Water Temp 36" capillary  | N/A     |
| 284B72                                       | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Water Temp 72" capillary  | N/A     |
| 284B144                                      | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Water Temp 144" capillary | N/A     |
| 140-320°F Mechanical Temperature             |              |         |                |                    |                           |         |
| Model #                                      | Line         | Size    | Dial           | Bezel              | Notes                     | Sender* |
| 116306                                       | Competition  | 2-1/16" | Silver         | Silver             | Oil Temp 2' capillary     | N/A     |
| 114567                                       | Competition  | 2-1/16" | Silver         | Silver             | Oil Temp 6' capillary     | N/A     |
| 114566                                       | Competition  | 2-1/16" | Black          | Silver             | Oil Temp 6' capillary     | N/A     |
| 114568                                       | Competition  | 2-1/16" | White          | Black              | Oil Temp 6' capillary     | N/A     |
| 114570                                       | Competition  | 2-5/8"  | Silver         | Silver             | Oil Temp 6' capillary     | N/A     |
| 114569                                       | Competition  | 2-5/8"  | Black          | Silver             | Oil Temp 6' capillary     | N/A     |
| 114571                                       | Competition  | 2-5/8"  | White          | Black              | Oil Temp 6' capillary     | N/A     |
| 116301                                       | Competition  | 2-1/16" | Silver         | Silver             | Oil Temp 8' capillary     | N/A     |
| 116300                                       | Competition  | 2-1/16" | Black          | Silver             | Oil Temp 8' capillary     | N/A     |
| 116302                                       | Competition  | 2-1/16" | White          | Black              | Oil Temp 8' capillary     | N/A     |
| 116304                                       | Competition  | 2-5/8"  | Silver         | Silver             | Oil Temp 8' capillary     | N/A     |
| 116303                                       | Competition  | 2-5/8"  | Black          | Silver             | Oil Temp 8' capillary     | N/A     |
| 116305                                       | Competition  | 2-5/8"  | White          | Black              | Oil Temp 8' capillary     | N/A     |
| 114573                                       | Competition  | 2-1/16" | Silver         | Silver             | Oil Temp 12' capillary    | N/A     |
| 114572                                       | Competition  | 2-1/16" | Black          | Silver             | Oil Temp 12' capillary    | N/A     |
| 114574                                       | Competition  | 2-1/16" | White          | Black              | Oil Temp 12' capillary    | N/A     |
| 114576                                       | Competition  | 2-5/8"  | Silver         | Silver             | Oil Temp 12' capillary    | N/A     |
| 114575                                       | Competition  | 2-5/8"  | Black          | Silver             | Oil Temp 12' capillary    | N/A     |
| 114577                                       | Competition  | 2-5/8"  | White          | Black              | Oil Temp 12' capillary    | N/A     |
| 114579                                       | Competition  | 2-1/16" | Silver         | Silver             | Trans Temp 9' capillary   | N/A     |
| 114578                                       | Competition  | 2-1/16" | Black          | Silver             | Trans Temp 9' capillary   | N/A     |
| 114580                                       | Competition  | 2-1/16" | White          | Black              | Trans Temp 9' capillary   | N/A     |
| 114582                                       | Competition  | 2-5/8"  | Silver         | Silver             | Trans Temp 9' capillary   | N/A     |
| 114581                                       | Competition  | 2-5/8"  | Black          | Silver             | Trans Temp 9' capillary   | N/A     |
| 114583                                       | Competition  | 2-5/8"  | White          | Black              | Trans Temp 9' capillary   | N/A     |
| 140-325°F Mechanical Temperature             |              |         |                |                    |                           |         |
| Model #                                      | Line         | Size    | Dial           | Bezel              | Notes                     | Sender* |
| 82327-60                                     | Deluxe       | 2-1/16" | Black          | Stainless          | Oil Temp 60" capillary    | N/A     |
| 82410-60                                     | Deluxe       | 2-5/8"  | Black          | Stainless          | Oil Temp 60" capillary    | N/A     |
| 82327-72                                     | Deluxe       | 2-1/16" | Black          | Stainless          | Oil Temp 72" capillary    | N/A     |
| 82410-72                                     | Deluxe       | 2-5/8"  | Black          | Stainless          | Oil Temp 72" capillary    | N/A     |
| 82327-96                                     | Deluxe       | 2-1/16" | Black          | Stainless          | Oil Temp 96" capillary    | N/A     |
| 82410-96                                     | Deluxe       | 2-5/8"  | Black          | Stainless          | Oil Temp 96" capillary    | N/A     |
| 82327-144                                    | Deluxe       | 2-1/16" | Black          | Stainless          | Oil Temp 144" capillary   | N/A     |
| 284C36                                       | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Oil Temp 36" capillary    | N/A     |
| 284C72                                       | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Oil Temp 72" capillary    | N/A     |
| 284C144                                      | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Oil Temp 144" capillary   | N/A     |

\* See page 54 for adapters and bulb extensions for mechanical temperature gauges.

**CAUTION:** The capillary tube on mechanical temperature gauges MUST NOT be cut, pinched or altered in any way or the gauge will not function. Purchase the length you need and ensure that it is long enough that you will not need to stretched tight.

# ELECTRIC TEMPERATURE

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| <b>40-115°C Electric Temperature</b>  |              |         |                |                    |                               |          |
|---------------------------------------|--------------|---------|----------------|--------------------|-------------------------------|----------|
| Model #                               | Line         | Size    | Dial           | Bezel              | Notes                         | Sender*  |
| 82389                                 | Deluxe       | 2-1/16" | Black          | Stainless          | Water Temp                    | 280EC    |
| <b>40-130°C Electric Temperature</b>  |              |         |                |                    |                               |          |
| Model #                               | Line         | Size    | Dial           | Bezel              | Notes                         | Sender*  |
| 114279                                | Competition  | 2-1/16" | Silver         | Silver             | Water Temp                    | Included |
| 114278                                | Competition  | 2-1/16" | Black          | Silver             | Water Temp                    | Included |
| 114280                                | Competition  | 2-1/16" | White          | Black              | Water Temp                    | Included |
| <b>60-160°C Electric Temperature</b>  |              |         |                |                    |                               |          |
| Model #                               | Line         | Size    | Dial           | Bezel              | Notes                         | Sender*  |
| 114264                                | Competition  | 2-1/16" | Silver         | Silver             | Oil Temp                      | Included |
| 114263                                | Competition  | 2-1/16" | Black          | Silver             | Oil Temp                      | Included |
| 114265                                | Competition  | 2-1/16" | White          | Black              | Oil Temp                      | Included |
| 114282                                | Competition  | 2-1/16" | Silver         | Silver             | Transmission Temp             | Included |
| 114281                                | Competition  | 2-1/16" | Black          | Silver             | Transmission Temp             | Included |
| 114283                                | Competition  | 2-1/16" | White          | Black              | Transmission Temp             | Included |
| 82390                                 | Deluxe       | 2-1/16" | Black          | Stainless          | Oil Temp                      | 280EE-F  |
| <b>100-230°F Electric Temperature</b> |              |         |                |                    |                               |          |
| Model #                               | Line         | Size    | Dial           | Bezel              | Notes                         | Sender*  |
| 284AF                                 | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Water Temp                    | 280EA    |
| <b>100-240°F Electric Temperature</b> |              |         |                |                    |                               |          |
| Model #                               | Line         | Size    | Dial           | Bezel              | Notes                         | Sender*  |
| 82306                                 | Deluxe       | 2-1/16" | Black          | Stainless          | Water Temp                    | 280EA    |
| 82478                                 | Wings        | 2-1/16" | Black          | Chrome             | Water Temp                    | 280EC    |
| 82477                                 | Wings        | 2-1/16" | White          | Chrome             | Water Temp                    | 280EC    |
| 82531                                 | Wings        | 2-1/16" | Beige          | Chrome             | Water Temp                    | 280EC    |
| 82521                                 | Wings        | 2-1/16" | Beige          | Gold               | Water Temp                    | 280EC    |
| 82498                                 | Wings        | 2-1/16" | Silver         | Chrome             | Water Temp                    | 280EC    |
| 82761                                 | Power Series | 2-1/16" | Blue/Gray Ring | Chrome             | Water Temp                    | 280EC    |
| 82753                                 | Power Series | 2-1/16" | Burgundy Ring  | Chrome             | Water Temp                    | 280EC    |
| 82757                                 | Power Series | 2-1/16" | Titanium Ring  | Chrome             | Water Temp                    | 280EC    |
| <b>100-260°F Electric Temperature</b> |              |         |                |                    |                               |          |
| Model #                               | Line         | Size    | Dial           | Bezel              | Notes                         | Sender*  |
| 114273                                | Competition  | 2-1/16" | Silver         | Silver             | Water Temp                    | Included |
| 114272                                | Competition  | 2-1/16" | Black          | Silver             | Water Temp                    | Included |
| 114274                                | Competition  | 2-1/16" | White          | Black              | Water Temp                    | Included |
| 114276                                | Competition  | 2-5/8"  | Silver         | Silver             | Water Temp                    | Included |
| 114275                                | Competition  | 2-5/8"  | Black          | Silver             | Water Temp                    | Included |
| 114277                                | Competition  | 2-5/8"  | White          | Black              | Water Temp                    | Included |
| 116200                                | Competition  | 1-1/2"  | Black          | Silver             | Water Temp Amber LED Lighting | Included |
| 116202                                | Competition  | 1-1/2"  | Black          | Silver             | Water Temp Blue LED Lighting  | Included |
| 116201                                | Competition  | 1-1/2"  | Black          | Silver             | Water Temp Red LED Lighting   | Included |
| <b>100-280°F Electric Temperature</b> |              |         |                |                    |                               |          |
| Model #                               | Line         | Size    | Dial           | Bezel              | Notes                         | Sender*  |
| 116206                                | Competition  | 1-1/2"  | Black          | Silver             | Trans Temp Amber LED Lighting | Included |
| 116208                                | Competition  | 1-1/2"  | Black          | Silver             | Trans Temp Blue LED Lighting  | Included |
| 116207                                | Competition  | 1-1/2"  | Black          | Silver             | Trans Temp Red LED Lighting   | Included |
| 82307                                 | Deluxe       | 2-1/16" | Black          | Stainless          | Water Temp                    | 280ED-F  |
| 82115                                 | Deluxe       | 2-1/16" | Black          | Stainless          | Oil Temp                      | 280ED-F  |
| 284J                                  | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Water Temp                    | 280ED-F  |

\* See page 52 for adapters for electric temperature senders.



# ELECTRIC TEMPERATURE

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 140-320°F Electric Temperature  |             |         |        |                    |                          |                   |
|---------------------------------|-------------|---------|--------|--------------------|--------------------------|-------------------|
| Model #                         | Line        | Size    | Dial   | Bezel              | Notes                    | Sender*           |
| 114267                          | Competition | 2-1/16" | Silver | Silver             | Oil Temp                 | Included          |
| 114266                          | Competition | 2-1/16" | Black  | Silver             | Oil Temp                 | Included          |
| 114268                          | Competition | 2-1/16" | White  | Black              | Oil Temp                 | Included          |
| 114270                          | Competition | 2-5/8"  | Silver | Silver             | Oil Temp                 | Included          |
| 114269                          | Competition | 2-5/8"  | Black  | Silver             | Oil Temp                 | Included          |
| 114271                          | Competition | 2-5/8"  | White  | Black              | Oil Temp                 | Included          |
| 116203                          | Competition | 1-1/2"  | Black  | Silver             | Oil Temp                 | Included          |
| 116205                          | Competition | 1-1/2"  | Black  | Silver             | Oil Temp                 | Included          |
| 116204                          | Competition | 1-1/2"  | Black  | Silver             | Oil Temp                 | Included          |
| 114285                          | Competition | 2-1/16" | Silver | Silver             | Trans Temp               | Included          |
| 114284                          | Competition | 2-1/16" | Black  | Silver             | Trans Temp               | Included          |
| 114286                          | Competition | 2-1/16" | White  | Black              | Trans Temp               | Included          |
| 114288                          | Competition | 2-5/8"  | Silver | Silver             | Trans Temp               | Included          |
| 114287                          | Competition | 2-5/8"  | Black  | Silver             | Trans Temp               | Included          |
| 114289                          | Competition | 2-5/8"  | White  | Black              | Trans Temp               | Included          |
| 119910                          | Impact      | 2-1/16" | Black  | Stainless          | Trans Temp               | Included          |
| 119816                          | Impact      | 2-1/16" | White  | Stainless          | Trans Temp               | Included          |
| 82308                           | Deluxe      | 2-1/16" | Black  | Stainless          | Oil Temp                 | 280EE-F           |
| 82490                           | Wings       | 2-1/16" | Black  | Chrome             | Oil Temp                 | 280EE-F           |
| 82489                           | Wings       | 2-1/16" | White  | Chrome             | Oil Temp                 | 280EE-F           |
| 284K                            | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Water Temp               | 280EE-F           |
| 150-325°F Electric Temperature  |             |         |        |                    |                          |                   |
| Model #                         | Line        | Size    | Dial   | Bezel              | Notes                    | Sender*           |
| 82344                           | Deluxe      | 2-1/16" | Black  | Chrome             | Trans Temp               | 280EE-F           |
| 200-1600°F Electric Temperature |             |         |        |                    |                          |                   |
| Model #                         | Line        | Size    | Dial   | Bezel              | Notes                    | Sender*           |
| 114401                          | Competition | 2-1/16" | Silver | Silver             | Exhaust Temp             | (See Temp Probes) |
| 114400                          | Competition | 2-1/16" | Black  | Silver             | Exhaust Temp             | (See Temp Probes) |
| 114402                          | Competition | 2-1/16" | White  | Black              | Exhaust Temp             | (See Temp Probes) |
| 119909                          | Impact      | 2-1/16" | Black  | Stainless          | Exhaust Temp             | (See Temp Probes) |
| 119815                          | Impact      | 2-1/16" | White  | Stainless          | Exhaust Temp             | (See Temp Probes) |
| 300-1200°C Electric Temperature |             |         |        |                    |                          |                   |
| Model #                         | Line        | Size    | Dial   | Bezel              | Notes                    | Sender*           |
| 114404                          | Competition | 2-1/16" | Silver | Silver             | Exhaust Temp             | (See Temp Probes) |
| 114403                          | Competition | 2-1/16" | Black  | Silver             | Exhaust Temp             | (See Temp Probes) |
| 114405                          | Competition | 2-1/16" | White  | Black              | Exhaust Temp             | (See Temp Probes) |
| 82334                           | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Pyrometer (Exhaust Temp) | (See Temp Probes) |
| 300-1500°F Electric Temperature |             |         |        |                    |                          |                   |
| Model #                         | Line        | Size    | Dial   | Bezel              | Notes                    | Sender*           |
| 82335                           | Deluxe      | 2-1/16" | Black  | Stainless          | Pyrometer (Exhaust Temp) | (See Temp Probes) |
| 82486                           | Wings       | 2-1/16" | Black  | Chrome             | Pyrometer (Exhaust Temp) | (See Temp Probes) |
| 82485                           | Wings       | 2-1/16" | White  | Chrome             | Pyrometer (Exhaust Temp) | (See Temp Probes) |
| 600-2200°F Electric Temperature |             |         |        |                    |                          |                   |
| Model #                         | Line        | Size    | Dial   | Bezel              | Notes                    | Sender*           |
| 114407                          | Competition | 2-1/16" | Silver | Silver             | Exhaust Temp             | (See Temp Probes) |
| 114406                          | Competition | 2-1/16" | Black  | Silver             | Exhaust Temp             | (See Temp Probes) |
| 114408                          | Competition | 2-1/16" | White  | Black              | Exhaust Temp             | (See Temp Probes) |

\* See page 52 for adapters for electric temperature senders.

**TIP: You can use braided stainless steel hose to remote mount electric pressure and temperature senders if clearance is a problem when installing an electric sender.**

# MECHANICAL PRESSURE

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 1 Bar Mechanical Pressure  |             |         |        |                    |                                       |                 |
|----------------------------|-------------|---------|--------|--------------------|---------------------------------------|-----------------|
| Model #                    | Line        | Size    | Dial   | Bezel              | Notes                                 | Tubing Kit      |
| 114319                     | Competition | 2-1/16" | Silver | Silver             | Fuel Pressure*                        | See Accessories |
| 114318                     | Competition | 2-1/16" | Black  | Silver             | Fuel Pressure*                        | See Accessories |
| 114320                     | Competition | 2-1/16" | White  | Black              | Fuel Pressure*                        | See Accessories |
| 4 Bar Mechanical Pressure  |             |         |        |                    |                                       |                 |
| Model #                    | Line        | Size    | Dial   | Bezel              | Notes                                 | Tubing Kit      |
| 114322                     | Competition | 2-1/16" | Silver | Silver             | Fuel Pressure*                        | See Accessories |
| 114321                     | Competition | 2-1/16" | Black  | Silver             | Fuel Pressure*                        | See Accessories |
| 114323                     | Competition | 2-1/16" | White  | Black              | Fuel Pressure*                        | See Accessories |
| 7 Bar Mechanical Pressure  |             |         |        |                    |                                       |                 |
| Model #                    | Line        | Size    | Dial   | Bezel              | Notes                                 | Tubing Kit      |
| 114325                     | Competition | 2-1/16" | Silver | Silver             | Fuel Pressure*                        | See Accessories |
| 114324                     | Competition | 2-1/16" | Black  | Silver             | Fuel Pressure*                        | See Accessories |
| 114326                     | Competition | 2-1/16" | White  | Black              | Fuel Pressure*                        | See Accessories |
| 114328                     | Competition | 2-1/16" | Silver | Silver             | Oil Pressure                          | Included        |
| 114327                     | Competition | 2-1/16" | Black  | Silver             | Oil Pressure                          | Included        |
| 114329                     | Competition | 2-1/16" | White  | Black              | Oil Pressure                          | Included        |
| 10 Bar Mechanical Pressure |             |         |        |                    |                                       |                 |
| Model #                    | Line        | Size    | Dial   | Bezel              | Notes                                 | Tubing Kit      |
| 114340                     | Competition | 2-1/16" | Silver | Silver             | Air Pressure                          | Included        |
| 114339                     | Competition | 2-1/16" | Black  | Silver             | Air Pressure                          | Included        |
| 114341                     | Competition | 2-1/16" | White  | Black              | Air Pressure                          | Included        |
| 10 PSI Mechanical Pressure |             |         |        |                    |                                       |                 |
| Model #                    | Line        | Size    | Dial   | Bezel              | Notes                                 | Tubing Kit      |
| 82319                      | Deluxe      | 2-1/16" | Black  | Stainless          | Fuel Pressure*                        | 114840/114841   |
| 15 PSI Mechanical Pressure |             |         |        |                    |                                       |                 |
| Model #                    | Line        | Size    | Dial   | Bezel              | Notes                                 | Tubing Kit      |
| 114501                     | Competition | 2-1/16" | Silver | Silver             | Fuel Pressure*                        | See Accessories |
| 114500                     | Competition | 2-1/16" | Black  | Silver             | Fuel Pressure*                        | See Accessories |
| 114502                     | Competition | 2-1/16" | White  | Black              | Fuel Pressure*                        | See Accessories |
| 114504                     | Competition | 2-5/8"  | Silver | Silver             | Fuel Pressure*                        | See Accessories |
| 114503                     | Competition | 2-5/8"  | Black  | Silver             | Fuel Pressure*                        | See Accessories |
| 114505                     | Competition | 2-5/8"  | White  | Black              | Fuel Pressure*                        | See Accessories |
| 114585                     | Competition | 2-1/16" | Silver | Silver             | Water Pressure (No fittings/Adapters) | See Accessories |
| 114584                     | Competition | 2-1/16" | Black  | Silver             | Water Pressure (No fittings/Adapters) | See Accessories |
| 114586                     | Competition | 2-1/16" | White  | Black              | Water Pressure (No fittings/Adapters) | See Accessories |
| 114588                     | Competition | 2-5/8"  | Silver | Silver             | Water Pressure (No fittings/Adapters) | See Accessories |
| 114587                     | Competition | 2-5/8"  | Black  | Silver             | Water Pressure (No fittings/Adapters) | See Accessories |
| 114589                     | Competition | 2-5/8"  | White  | Black              | Water Pressure (No fittings/Adapters) | See Accessories |
| 82405                      | Deluxe      | 2-5/8"  | Black  | Stainless          | Fuel Pressure*                        | See Accessories |
| 15 PSI Mechanical Pressure |             |         |        |                    |                                       |                 |
| Model #                    | Line        | Size    | Dial   | Bezel              | Notes                                 | Tubing Kit      |
| 284E                       | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Fuel Pressure*                        | See Accessories |
| 30 PSI Mechanical Pressure |             |         |        |                    |                                       |                 |
| Model #                    | Line        | Size    | Dial   | Bezel              | Notes                                 | Tubing Kit      |
| 114383                     | Competition | 2-1/16" | Silver | Silver             | Fuel Pressure*                        | See Accessories |
| 114382                     | Competition | 2-1/16" | Black  | Silver             | Fuel Pressure*                        | See Accessories |
| 114384                     | Competition | 2-1/16" | White  | Black              | Fuel Pressure*                        | See Accessories |
| 82320                      | Deluxe      | 2-1/16" | Black  | Stainless          | Fuel Pressure*                        | See Accessories |
| 30 PSI Mechanical Pressure |             |         |        |                    |                                       |                 |
| Model #                    | Line        | Size    | Dial   | Bezel              | Notes                                 | Tubing Kit      |
| 114591                     | Competition | 2-1/16" | Silver | Silver             | Water Pressure (No fittings/Adapters) | See Accessories |
| 114590                     | Competition | 2-1/16" | Black  | Silver             | Water Pressure (No fittings/Adapters) | See Accessories |
| 114592                     | Competition | 2-1/16" | White  | Black              | Water Pressure (No fittings/Adapters) | See Accessories |

\* Mechanical fuel pressure gauges must NOT be mounted in the passenger compartment of a vehicle. See our accessories section for braided stainless hose and mounting cups for mounting this gauge outside the cockpit.

# MECHANICAL PRESSURE

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| <b>30 PSI Mechanical Pressure (Continued)</b> |              |             |                |                    |                                    |                   |
|---|--------------|-------------|----------------|--------------------|------------------------------------|-------------------|
| <b>Model #</b>                                | <b>Line</b>  | <b>Size</b> | <b>Dial</b>    | <b>Bezel</b>       | <b>Notes</b>                       | <b>Tubing Kit</b> |
| 114594  | Competition  | 2-5/8"      | Silver         | Silver             | Water Press (No fittings/Adapters) | See Accessories   |
| 114593  | Competition  | 2-5/8"      | Black          | Silver             | Water Press (No fittings/Adapters) | See Accessories   |
| 114595  | Competition  | 2-5/8"      | White          | Black              | Water Press (No fittings/Adapters) | See Accessories   |
| 119913  | Impact       | 2-1/16"     | Black          | Stainless          | Fuel Pressure*                     | See Accessories   |
| 119919  | Impact       | 2-1/16"     | White          | Stainless          | Fuel Pressure*                     | See Accessories   |
| <b>50 PSI Mechanical Pressure</b>             |              |             |                |                    |                                    |                   |
| <b>Model #</b>                                | <b>Line</b>  | <b>Size</b> | <b>Dial</b>    | <b>Bezel</b>       | <b>Notes</b>                       | <b>Tubing Kit</b> |
| 82207   | Standard     | 2-1/32"     | Black          | Flat/Stainless     | Pressure                           | 114840/114841     |
| <b>60 PSI Mechanical Pressure</b>             |              |             |                |                    |                                    |                   |
| <b>Model #</b>                                | <b>Line</b>  | <b>Size</b> | <b>Dial</b>    | <b>Bezel</b>       | <b>Notes</b>                       | <b>Tubing Kit</b> |
| 114507  | Competition  | 2-1/16"     | Silver         | Silver             | Fuel Pressure*                     | See Accessories   |
| 114506  | Competition  | 2-1/16"     | Black          | Silver             | Fuel Pressure*                     | See Accessories   |
| 114508  | Competition  | 2-1/16"     | White          | Black              | Fuel Pressure*                     | See Accessories   |
| 114510  | Competition  | 2-5/8"      | Silver         | Silver             | Fuel Pressure*                     | See Accessories   |
| 114509  | Competition  | 2-5/8"      | Black          | Silver             | Fuel Pressure*                     | See Accessories   |
| 114511  | Competition  | 2-5/8"      | White          | Black              | Fuel Pressure*                     | See Accessories   |
| <b>80 PSI Mechanical Pressure</b>             |              |             |                |                    |                                    |                   |
| <b>Model #</b>                                | <b>Line</b>  | <b>Size</b> | <b>Dial</b>    | <b>Bezel</b>       | <b>Notes</b>                       | <b>Tubing Kit</b> |
| 82322   | Deluxe       | 2-1/16"     | Black          | Stainless          | Oil Pressure                       | 114840/114841     |
| 82406   | Deluxe       | 2-5/8"      | Black          | Stainless          | Oil Pressure                       | 114840/114841     |
| 82476   | Wings        | 2-1/16"     | Black          | Chrome             | Oil Pressure                       | 114840/114841     |
| 82475   | Wings        | 2-1/16"     | White          | Chrome             | Oil Pressure                       | 114840/114841     |
| 82763   | Power Series | 2-1/16"     | Blue/Gray Ring | Chrome             | Oil Pressure                       | 114840/114841     |
| 82755   | Power Series | 2-1/16"     | Burgundy Ring  | Chrome             | Oil Pressure                       | 114840/114841     |
| 82759   | Power Series | 2-1/16"     | Titanium Ring  | Chrome             | Oil Pressure                       | 114840/114841     |
| 82208   | Standard     | 2-1/32"     | Black          | Flat/Stainless     | Pressure (No light)                | 114840/114841     |
| <b>100 PSI Mechanical Pressure</b>            |              |             |                |                    |                                    |                   |
| <b>Model #</b>                                | <b>Line</b>  | <b>Size</b> | <b>Dial</b>    | <b>Bezel</b>       | <b>Notes</b>                       | <b>Tubing Kit</b> |
| 114513  | Competition  | 2-1/16"     | Silver         | Silver             | Fuel Pressure*                     | See Accessories   |
| 114512  | Competition  | 2-1/16"     | Black          | Silver             | Fuel Pressure*                     | See Accessories   |
| 114514  | Competition  | 2-1/16"     | White          | Black              | Fuel Pressure*                     | See Accessories   |
| 114516  | Competition  | 2-5/8"      | Silver         | Silver             | Fuel Pressure*                     | See Accessories   |
| 114515  | Competition  | 2-5/8"      | Black          | Silver             | Fuel Pressure*                     | See Accessories   |
| 114517  | Competition  | 2-5/8"      | White          | Black              | Fuel Pressure*                     | See Accessories   |
| 114519  | Competition  | 2-1/16"     | Silver         | Silver             | Oil Pressure                       | Included          |
| 114518  | Competition  | 2-1/16"     | Black          | Silver             | Oil Pressure                       | Included          |
| 114520  | Competition  | 2-1/16"     | White          | Black              | Oil Pressure                       | Included          |
| 114522  | Competition  | 2-5/8"      | Silver         | Silver             | Oil Pressure                       | Included          |
| 114521  | Competition  | 2-5/8"      | Black          | Silver             | Oil Pressure                       | Included          |
| 114523  | Competition  | 2-5/8"      | White          | Black              | Oil Pressure                       | Included          |
| 119914  | Impact       | 2-1/16"     | Black          | Stainless          | Fuel Pressure*                     | See Accessories   |
| 119920  | Impact       | 2-1/16"     | Black          | Stainless          | Fuel Pressure*                     | See Accessories   |
| 82323   | Deluxe       | 2-1/16"     | Black          | Stainless          | Oil Pressure                       | 114840/114841     |
| 82407   | Deluxe       | 2-5/8"      | Black          | Stainless          | Oil Pressure                       | 114840/114841     |
| 82408   | Deluxe       | 2-5/8"      | Black          | Stainless          | Air Pressure                       | 114840/114841     |
| 82484   | Wings        | 2-1/16"     | Black          | Chrome             | Air Suspension                     | 114840/114841     |
| 82483   | Wings        | 2-1/16"     | White          | Chrome             | Air Suspension                     | 114840/114841     |
| 82209   | Standard     | 2-1/32"     | Black          | Flat/Stainless     | Pressure (No light)                | 114840/114841     |
| 284D  | Heavy Duty   | 2-1/16"     | Black          | Black/Brushed Ring | Oil Pressure                       | 114840/114841     |
| 284N  | Heavy Duty   | 2-1/16"     | Black          | Black/Brushed Ring | Air Pressure                       | 114840/114841     |

\* Mechanical fuel pressure gauges must NOT be mounted in the passenger compartment of a vehicle. See our accessories section for braided stainless hose and mounting cups for mounting this gauge outside the cockpit.

Mechanical pressure gauges continued on next page

# MECHANICAL PRESSURE

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 150 PSI Mechanical Pressure  |             |         |        |                    |                    |                 |
|------------------------------|-------------|---------|--------|--------------------|--------------------|-----------------|
| Model #                      | Line        | Size    | Dial   | Bezel              | Notes              | Tubing Kit      |
| 114389                       | Competition | 2-1/16" | Silver | Silver             | Oil Pressure       | Included        |
| 114388                       | Competition | 2-1/16" | Black  | Silver             | Oil Pressure       | Included        |
| 114390                       | Competition | 2-1/16" | White  | Black              | Oil Pressure       | Included        |
| 114392                       | Competition | 2-5/8"  | Silver | Silver             | Oil Pressure       | Included        |
| 114391                       | Competition | 2-5/8"  | Black  | Silver             | Oil Pressure       | Included        |
| 114393                       | Competition | 2-5/8"  | White  | Black              | Oil Pressure       | Included        |
| 114549                       | Competition | 2-1/16" | Silver | Silver             | Air Pressure       | Included        |
| 114548                       | Competition | 2-1/16" | Black  | Silver             | Air Pressure       | Included        |
| 114550                       | Competition | 2-1/16" | White  | Black              | Air Pressure       | Included        |
| 114552                       | Competition | 2-5/8"  | Silver | Silver             | Oil Pressure       | Included        |
| 114551                       | Competition | 2-5/8"  | Black  | Silver             | Oil Pressure       | Included        |
| 114553                       | Competition | 2-5/8"  | White  | Black              | Oil Pressure       | Included        |
| 82329                        | Deluxe      | 2-1/16" | Black  | Stainless          | Air Pressure       | 114840/114841   |
| 82488                        | Wings       | 2-1/16" | Black  | Chrome             | Air Pressure       | 114840/114841   |
| 82487                        | Wings       | 2-1/16" | White  | Chrome             | Air Pressure       | 114840/114841   |
| 200 PSI Mechanical Pressure  |             |         |        |                    |                    |                 |
| Model #                      | Line        | Size    | Dial   | Bezel              | Notes              | Tubing Kit      |
| 114307                       | Competition | 2-1/16" | Silver | Silver             | Pressure           | Included        |
| 114306                       | Competition | 2-1/16" | Black  | Silver             | Pressure           | Included        |
| 114308                       | Competition | 2-1/16" | White  | Black              | Pressure           | Included        |
| 114310                       | Competition | 2-5/8"  | Silver | Silver             | Pressure           | Included        |
| 114309                       | Competition | 2-5/8"  | Black  | Silver             | Pressure           | Included        |
| 114311                       | Competition | 2-5/8"  | White  | Black              | Pressure           | Included        |
| 82325                        | Deluxe      | 2-1/16" | Black  | Stainless          | Fuel Pressure*     | See Accessories |
| 82324                        | Deluxe      | 2-1/16" | Black  | Stainless          | Oil Pressure       | 114840/114841   |
| 284P                         | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Oil Pressure       | 114840/114841   |
| 300 PSI Mechanical Pressure  |             |         |        |                    |                    |                 |
| Model #                      | Line        | Size    | Dial   | Bezel              | Notes              | Tubing Kit      |
| 114313                       | Competition | 2-1/16" | Silver | Silver             | Pressure           | Included        |
| 114312                       | Competition | 2-1/16" | Black  | Silver             | Pressure           | Included        |
| 114314                       | Competition | 2-1/16" | White  | Black              | Pressure           | Included        |
| 114316                       | Competition | 2-5/8"  | Silver | Silver             | Pressure           | Included        |
| 114315                       | Competition | 2-5/8"  | Black  | Silver             | Pressure           | Included        |
| 114317                       | Competition | 2-5/8"  | White  | Black              | Pressure           | Included        |
| 284R                         | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Trans Oil Pressure | 114840/114841   |
| 400 PSI Mechanical Pressure  |             |         |        |                    |                    |                 |
| Model #                      | Line        | Size    | Dial   | Bezel              | Notes              | Tubing Kit      |
| 2845                         | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Trans Oil Pressure | 114840/114841   |
| 1000 kPa Mechanical Pressure |             |         |        |                    |                    |                 |
| Model #                      | Line        | Size    | Dial   | Bezel              | Notes              | Tubing Kit      |
| 82393                        | Deluxe      | 2-1/16" | Black  | Stainless          | Air Pressure       | 114840/114841   |
| 1500 PSI Mechanical Pressure |             |         |        |                    |                    |                 |
| Model #                      | Line        | Size    | Dial   | Bezel              | Notes              | Tubing Kit      |
| 119384                       | Competition | 2-1/16" | Silver | Silver             | Nitrous Pressure   | See Accessories |
| 119383                       | Competition | 2-1/16" | Black  | Silver             | Nitrous Pressure   | See Accessories |
| 119385                       | Competition | 2-1/16" | White  | Black              | Nitrous Pressure   | See Accessories |
| 119602                       | Competition | 2-5/8"  | Silver | Silver             | Nitrous Pressure   | See Accessories |
| 119601                       | Competition | 2-5/8"  | Black  | Silver             | Nitrous Pressure   | See Accessories |
| 119603                       | Competition | 2-5/8"  | White  | Black              | Nitrous Pressure   | See Accessories |

\* Mechanical fuel pressure gauges must NOT be mounted in the passenger compartment of a vehicle. See our accessories section for braided stainless hose and mounting cups for mounting this gauge outside the cockpit.

# ELECTRIC PRESSURE

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 1 Bar Electric Pressure   |              |         |                |                    |                                  |          |
|---------------------------|--------------|---------|----------------|--------------------|----------------------------------|----------|
| Model #                   | Line         | Size    | Dial           | Bezel              | Notes                            | Sender   |
| 114207                    | Competition  | 2-1/16" | Silver         | Silver             | Fuel Pressure                    | Included |
| 114206                    | Competition  | 2-1/16" | Black          | Silver             | Fuel Pressure                    | Included |
| 114208                    | Competition  | 2-1/16" | White          | Black              | Fuel Pressure                    | Included |
| 7 Bar Electric Pressure   |              |         |                |                    |                                  |          |
| Model #                   | Line         | Size    | Dial           | Bezel              | Notes                            | Sender   |
| 114210                    | Competition  | 2-1/16" | Silver         | Silver             | Fuel Pressure                    | Included |
| 114209                    | Competition  | 2-1/16" | Black          | Silver             | Fuel Pressure                    | Included |
| 114211                    | Competition  | 2-1/16" | White          | Black              | Fuel Pressure                    | Included |
| 114261                    | Competition  | 2-1/16" | Silver         | Silver             | Oil Pressure                     | Included |
| 114260                    | Competition  | 2-1/16" | Black          | Silver             | Oil Pressure                     | Included |
| 114262                    | Competition  | 2-1/16" | White          | Black              | Oil Pressure                     | Included |
| 15 PSI Electric Pressure  |              |         |                |                    |                                  |          |
| Model #                   | Line         | Size    | Dial           | Bezel              | Notes                            | Sender   |
| 114213                    | Competition  | 2-1/16" | Silver         | Silver             | Fuel Pressure                    | Included |
| 114212                    | Competition  | 2-1/16" | Black          | Silver             | Fuel Pressure                    | Included |
| 114214                    | Competition  | 2-1/16" | White          | Black              | Fuel Pressure                    | Included |
| 114216                    | Competition  | 2-5/8"  | Silver         | Silver             | Fuel Pressure                    | Included |
| 114215                    | Competition  | 2-5/8"  | Black          | Silver             | Fuel Pressure                    | Included |
| 114217                    | Competition  | 2-5/8"  | White          | Black              | Fuel Pressure                    | Included |
| 116212                    | Competition  | 1-1/2"  | Black          | Silver             | Fuel Pressure Amber LED Lighting | Included |
| 116214                    | Competition  | 1-1/2"  | Black          | Silver             | Fuel Pressure Blue LED Lighting  | Included |
| 116213                    | Competition  | 1-1/2"  | Black          | Silver             | Fuel Pressure Red LED Lighting   | Included |
| 119911                    | Impact       | 2-1/16" | Black          | Stainless          | Fuel Pressure                    | Included |
| 119817                    | Impact       | 2-1/16" | White          | Stainless          | Fuel Pressure                    | Included |
| 16 PSI Electric Pressure  |              |         |                |                    |                                  |          |
| Model #                   | Line         | Size    | Dial           | Bezel              | Notes                            | Sender   |
| 82333                     | Deluxe       | 2-1/16" | Black          | Stainless          | Fuel Pressure                    | 114874   |
| 284AM                     | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Fuel Pressure                    | 114874   |
| 80 PSI Electric Pressure  |              |         |                |                    |                                  |          |
| Model #                   | Line         | Size    | Dial           | Bezel              | Notes                            | Sender   |
| 82304                     | Deluxe       | 2-1/16" | Black          | Stainless          | Oil Pressure                     | 279A     |
| 82474                     | Wings        | 2-1/16" | Black          | Chrome             | Oil Pressure                     | 279A     |
| 82473                     | Wings        | 2-1/16" | White          | Chrome             | Oil Pressure                     | 279A     |
| 82530                     | Wings        | 2-1/16" | Beige          | Chrome             | Oil Pressure                     | 279A     |
| 82520                     | Wings        | 2-1/16" | Beige          | Gold               | Oil Pressure                     | 279A     |
| 82497                     | Wings        | 2-1/16" | Silver         | Chrome             | Oil Pressure                     | 279A     |
| 82760                     | Power Series | 2-1/16" | Blue/Gray Ring | Chrome             | Oil Pressure                     | 279A     |
| 82752                     | Power Series | 2-1/16" | Burgundy Ring  | Chrome             | Oil Pressure                     | 279A     |
| 82756                     | Power Series | 2-1/16" | Titanium Ring  | Chrome             | Oil Pressure                     | 279A     |
| 284AE                     | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Oil Pressure                     | 279A     |
| 100 PSI Electric Pressure |              |         |                |                    |                                  |          |
| Model #                   | Line         | Size    | Dial           | Bezel              | Notes                            | Sender   |
| 114219                    | Competition  | 2-1/16" | Silver         | Silver             | Fuel Pressure                    | Included |
| 114218                    | Competition  | 2-1/16" | Black          | Silver             | Fuel Pressure                    | Included |
| 114220                    | Competition  | 2-1/16" | White          | Black              | Fuel Pressure                    | Included |
| 114222                    | Competition  | 2-5/8"  | Silver         | Silver             | Fuel Pressure                    | Included |
| 114221                    | Competition  | 2-5/8"  | Black          | Silver             | Fuel Pressure                    | Included |
| 114223                    | Competition  | 2-5/8"  | White          | Black              | Fuel Pressure                    | Included |
| 114255                    | Competition  | 2-1/16" | Silver         | Silver             | Oil Pressure                     | Included |
| 114254                    | Competition  | 2-1/16" | Black          | Silver             | Oil Pressure                     | Included |
| 114256                    | Competition  | 2-1/16" | White          | Black              | Oil Pressure                     | Included |
| 114258                    | Competition  | 2-5/8"  | Silver         | Silver             | Oil Pressure                     | Included |

\* See page 54 for electric pressure sender adapters if needed.

Electric pressure gauges continued on next page

# ELECTRIC PRESSURE/FUEL LEVEL

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 100 PSI Electric Pressure (Continued) |             |         |       |                    |                                  |          |
|---------------------------------------|-------------|---------|-------|--------------------|----------------------------------|----------|
| Model #                               | Line        | Size    | Dial  | Bezel              | Notes                            | Sender   |
| 114257                                | Competition | 2-5/8"  | Black | Silver             | Oil Pressure                     | Included |
| 114259                                | Competition | 2-5/8"  | White | Black              | Oil Pressure                     | Included |
| 116209                                | Competition | 1-1/2"  | Black | Silver             | Oil Pressure Amber LED Lighting  | Included |
| 116211                                | Competition | 1-1/2"  | Black | Silver             | Oil Pressure Blue LED Lighting   | Included |
| 116210                                | Competition | 1-1/2"  | Black | Silver             | Oil Pressure Red LED Lighting    | Included |
| 116215                                | Competition | 1-1/2"  | Black | Silver             | Fuel Pressure Amber LED Lighting | Included |
| 116217                                | Competition | 1-1/2"  | Black | Silver             | Fuel Pressure Blue LED Lighting  | Included |
| 116216                                | Competition | 1-1/2"  | Black | Silver             | Fuel Pressure Red LED Lighting   | Included |
| 119912                                | Impact      | 2-1/16" | Black | Stainless          | Fuel Pressure                    | Included |
| 119918                                | Impact      | 2-1/16" | White | Stainless          | Fuel Pressure                    | Included |
| 82305                                 | Deluxe      | 2-1/16" | Black | Stainless          | Air Pressure                     | 114875   |
| 284L                                  | Heavy Duty  | 2-1/16" | Black | Black/Brushed Ring | Oil Pressure                     | 114875   |
| 150 PSI Electric Pressure             |             |         |       |                    |                                  |          |
| Model #                               | Line        | Size    | Dial  | Bezel              | Notes                            | Sender   |
| 82346                                 | Deluxe      | 2-1/16" | Black | Stainless          | Air Pressure                     | 279C     |
| 284T                                  | Heavy Duty  | 2-1/16" | Black | Black/Brushed Ring | Air Pressure                     | 279C     |
| 700 kPa Electric Pressure             |             |         |       |                    |                                  |          |
| Model #                               | Line        | Size    | Dial  | Bezel              | Notes                            | Sender   |
| 82387                                 | Deluxe      | 2-1/16" | Black | Stainless          | Oil Pressure                     | 114875   |
| 700 kPa Electric Pressure             |             |         |       |                    |                                  |          |
| Model #                               | Line        | Size    | Dial  | Bezel              | Notes                            | Sender   |
| 82388                                 | Deluxe      | 2-1/16" | Black | Stainless          | Air Pressure                     | 279C     |

\* See page 54 for electric pressure sender adapters if needed.

## Fuel Level

| 73-10 Ohm Fuel Level  |             |         |        |                    |            |               |
|-----------------------|-------------|---------|--------|--------------------|------------|---------------|
| Model #               | Line        | Size    | Dial   | Bezel              | Notes      | Sender        |
| 114231                | Competition | 2-1/16" | Silver | Silver             | Fuel Level | Not available |
| 114230                | Competition | 2-1/16" | Black  | Silver             | Fuel Level | Not available |
| 114232                | Competition | 2-1/16" | White  | Black              | Fuel Level | Not available |
| 114234                | Competition | 2-5/8"  | Silver | Silver             | Fuel Level | Not available |
| 114233                | Competition | 2-5/8"  | Black  | Silver             | Fuel Level | Not available |
| 114235                | Competition | 2-5/8"  | White  | Black              | Fuel Level | Not available |
| 82342                 | Deluxe      | 2-1/16" | Black  | Stainless          | Fuel Level | Not available |
| 82496                 | Wings       | 2-1/16" | Black  | Chrome             | Fuel Level | Not available |
| 82495                 | Wings       | 2-1/16" | White  | Chrome             | Fuel Level | Not available |
| 284BR                 | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Fuel Level | Not available |
| 16-158 Ohm Fuel Level |             |         |        |                    |            |               |
| Model #               | Line        | Size    | Dial   | Bezel              | Notes      | Sender        |
| 114249                | Competition | 2-1/16" | Silver | Silver             | Fuel Level | Not available |
| 114248                | Competition | 2-1/16" | Black  | Silver             | Fuel Level | Not available |
| 114250                | Competition | 2-1/16" | White  | Black              | Fuel Level | Not available |
| 114252                | Competition | 2-5/8"  | Silver | Silver             | Fuel Level | Not available |
| 114251                | Competition | 2-5/8"  | Black  | Silver             | Fuel Level | Not available |
| 114253                | Competition | 2-5/8"  | White  | Black              | Fuel Level | Not available |

Fuel level gauges continued on next page

# FUEL LEVEL

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 240-33.5 Ohm Fuel Level |              |         |                |                    |                       |          |
|-------------------------|--------------|---------|----------------|--------------------|-----------------------|----------|
| Model #                 | Line         | Size    | Dial           | Bezel              | Notes                 | Sender   |
| 114237                  | Competition  | 2-1/16" | Silver         | Silver             | Fuel Level            | 114876   |
| 114236                  | Competition  | 2-1/16" | Black          | Silver             | Fuel Level            | 114876   |
| 114238                  | Competition  | 2-1/16" | White          | Black              | Fuel Level            | 114876   |
| 114240                  | Competition  | 2-5/8"  | Silver         | Silver             | Fuel Level            | 114876   |
| 114239                  | Competition  | 2-5/8"  | Black          | Silver             | Fuel Level            | 114876   |
| 114241                  | Competition  | 2-5/8"  | White          | Black              | Fuel Level            | 114876   |
| 116218                  | Competition  | 1-1/2"  | Black          | Silver             | Fuel Level            | 114876   |
| 116220                  | Competition  | 1-1/2"  | Black          | Silver             | Fuel Level            | 114876   |
| 116219                  | Competition  | 1-1/2"  | Black          | Silver             | Fuel Level            | 114876   |
| 82303                   | Deluxe       | 2-1/16" | Black          | Stainless          | Fuel Level            | 114876   |
| 82413                   | Deluxe       | 2-5/8"  | Black          | Stainless          | Fuel Level            | 114876   |
| 82472                   | Wings        | 2-1/16" | Black          | Chrome             | Fuel Level            | 114876   |
| 82471                   | Wings        | 2-1/16" | White          | Chrome             | Fuel Level            | 114876   |
| 82532                   | Wings        | 2-1/16" | Beige          | Chrome             | Fuel Level            | 114876   |
| 82522                   | Wings        | 2-1/16" | Beige          | Chrome             | Fuel Level            | 114876   |
| 82499                   | Wings        | 2-1/16" | Silver         | Chrome             | Fuel Level            | 114876   |
| 82517                   | Power Series | 2-1/16" | Blue/Gray Ring | Chrome             | Fuel Level            | 114876   |
| 82515                   | Power Series | 2-1/16" | Burgundy Ring  | Chrome             | Fuel Level            | 114876   |
| 82516                   | Power Series | 2-1/16" | Titanium Ring  | Chrome             | Fuel Level            | 114876   |
| 82211                   | Standard     | 2-1/32" | Black          | Flat/Stainless     | Fuel Level (No light) | 114876   |
| 284M                    | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Fuel Level            | 114876   |
| 0-90 Ohm Fuel Level     |              |         |                |                    |                       |          |
| Model #                 | Line         | Size    | Dial           | Bezel              | Notes                 | Sender   |
| 114225                  | Competition  | 2-1/16" | Silver         | Silver             | Fuel Level            | See note |
| 114224                  | Competition  | 2-1/16" | Black          | Silver             | Fuel Level            | See note |
| 114226                  | Competition  | 2-1/16" | White          | Black              | Fuel Level            | See note |
| 114228                  | Competition  | 2-5/8"  | Silver         | Silver             | Fuel Level            | See note |
| 114227                  | Competition  | 2-5/8"  | Black          | Silver             | Fuel Level            | See note |
| 114229                  | Competition  | 2-5/8"  | White          | Black              | Fuel Level            | See note |
| 82341                   | Deluxe       | 2-1/16" | Black          | Stainless          | Fuel Level            | See note |
| 82494                   | Wings        | 2-1/16" | Black          | Chrome             | Fuel Level            | See note |
| 82493                   | Wings        | 2-1/16" | White          | Chrome             | Fuel Level            | See note |
| 284BS                   | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Fuel Level            | See note |

\* Stewart Warner offers four 0-90Ohm fuel level senders. See page 52 to select the proper length and orientation for your tank.

# VOLTMETERS/AIR FUEL RATIO

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 8-18V Voltmeter  |              |         |                |                    |                              |        |
|------------------|--------------|---------|----------------|--------------------|------------------------------|--------|
| Model #          | Line         | Size    | Dial           | Bezel              | Notes                        | Sender |
| 114201           | Competition  | 2-1/16" | Silver         | Silver             | Voltmeter                    | N/A    |
| 114200           | Competition  | 2-1/16" | Black          | Silver             | Voltmeter                    | N/A    |
| 114202           | Competition  | 2-1/16" | White          | Black              | Voltmeter                    | N/A    |
| 114204           | Competition  | 2-5/8"  | Silver         | Silver             | Voltmeter                    | N/A    |
| 114203           | Competition  | 2-5/8"  | Black          | Silver             | Voltmeter                    | N/A    |
| 114205           | Competition  | 2-5/8"  | White          | Black              | Voltmeter                    | N/A    |
| 116221           | Competition  | 1-1/2"  | Black          | Silver             | Voltmeter Amber LED Lighting | N/A    |
| 116223           | Competition  | 1-1/2"  | Black          | Silver             | Voltmeter Blue LED Lighting  | N/A    |
| 116222           | Competition  | 1-1/2"  | Black          | Silver             | Voltmeter Red LED Lighting   | N/A    |
| 10-16V Voltmeter |              |         |                |                    |                              |        |
| Model #          | Line         | Size    | Dial           | Bezel              | Notes                        | Sender |
| 82309            | Deluxe       | 2-1/16" | Black          | Stainless          | Voltmeter (color band)       | N/A    |
| 82391            | Deluxe       | 2-1/16" | Black          | Stainless          | Voltmeter (color band)       | N/A    |
| 82482            | Wings        | 2-1/16" | Black          | Chrome             | Voltmeter                    | N/A    |
| 82481            | Wings        | 2-1/16" | White          | Chrome             | Voltmeter                    | N/A    |
| 82533            | Wings        | 2-1/16" | Beige          | Chrome             | Voltmeter                    | N/A    |
| 82523            | Wings        | 2-1/16" | Beige          | Gold               | Voltmeter                    | N/A    |
| 82610            | Wings        | 2-1/16" | Silver         | Chrome             | Voltmeter                    | N/A    |
| 82762            | Power Series | 2-1/16" | Blue/Gray Ring | Chrome             | Voltmeter                    | N/A    |
| 82754            | Power Series | 2-1/16" | Burgundy Ring  | Chrome             | Voltmeter                    | N/A    |
| 82758            | Power Series | 2-1/16" | Titanium Ring  | Chrome             | Voltmeter                    | N/A    |
| 284H             | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Voltmeter (color band)       | N/A    |
| 20-32V Voltmeter |              |         |                |                    |                              |        |
| Model #          | Line         | Size    | Dial           | Bezel              | Notes                        | Sender |
| 82347            | Deluxe       | 2-5/8"  | Black          | Stainless          | Voltmeter (color band)       | N/A    |
| 284AJ            | Heavy Duty   | 2-1/16" | Black          | Black/Brushed Ring | Voltmeter (color band)       | N/A    |

## Air/Fuel Ratio

| Air/Fuel Ratio |             |         |        |        |                            |                    |
|----------------|-------------|---------|--------|--------|----------------------------|--------------------|
| Model #        | Line        | Size    | Dial   | Bezel  | Notes                      | Sender             |
| 114901         | Competition | 2-1/16" | Silver | Silver | Air/Fuel Ratio 20 LED band | Use OE 0-1V sensor |
| 114900         | Competition | 2-1/16" | Black  | Silver | Air/Fuel Ratio 20 LED band | Use OE 0-1V sensor |
| 114902         | Competition | 2-1/16" | White  | Black  | Air/Fuel Ratio 20 LED band | Use OE 0-1V sensor |
| 114904         | Competition | 2-5/8"  | Silver | Silver | Air/Fuel Ratio 20 LED band | Use OE 0-1V sensor |
| 114903         | Competition | 2-5/8"  | Black  | Silver | Air/Fuel Ratio 20 LED band | Use OE 0-1V sensor |
| 114905         | Competition | 2-5/8"  | White  | Black  | Air/Fuel Ratio 20 LED band | Use OE 0-1V sensor |



# AMMETERS

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| <b>20-0-20 Ammeter</b>   |             |             |             |                    |                            |               |
|--------------------------|-------------|-------------|-------------|--------------------|----------------------------|---------------|
| <b>Model #</b>           | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b>       | <b>Notes</b>               | <b>Sender</b> |
| 82201                    | Standard    | 2-1/32"     | Black       | Flat Stainless     | Ammeter Internally shunted | N/A           |
| <b>30-0-30 Ammeter</b>   |             |             |             |                    |                            |               |
| <b>Model #</b>           | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b>       | <b>Notes</b>               | <b>Sender</b> |
| 82310                    | Deluxe      | 2-1/16"     | Black       | Stainless          | Ammeter internally shunted | N/A           |
| 82200                    | Standard    | 2-1/32"     | Black       | Flat Stainless     | Ammeter Internally shunted | N/A           |
| 82311                    | Deluxe      | 2-1/16"     | Black       | Stainless          | Ammeter internally shunted | N/A           |
| 82404                    | Deluxe      | 2-5/8"      | Black       | Stainless          | Ammeter internally shunted | N/A           |
| <b>60-0-60 Ammeter</b>   |             |             |             |                    |                            |               |
| <b>Model #</b>           | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b>       | <b>Notes</b>               | <b>Sender</b> |
| 82202                    | Standard    | 2-1/32"     | Black       | Flat Stainless     | Ammeter Internally shunted | N/A           |
| 284A                     | Heavy Duty  | 2-1/16"     | Black       | Black/Brushed Ring | Ammeter Internally shunted | N/A           |
| <b>100-0-100 Ammeter</b> |             |             |             |                    |                            |               |
| <b>Model #</b>           | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b>       | <b>Notes</b>               | <b>Sender</b> |
| 82313                    | Deluxe      | 2-1/16"     | Black       | Stainless          | Ammeter internally shunted | N/A           |
| 82343                    | Deluxe      | 2-1/16"     | Black       | Stainless          | Ammeter                    | 407616        |
| 284AA                    | Heavy Duty  | 2-1/16"     | Black       | Black/Brushed Ring | Ammeter                    | 407616        |
| <b>150-0-150 Ammeter</b> |             |             |             |                    |                            |               |
| <b>Model #</b>           | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b>       | <b>Notes</b>               | <b>Sender</b> |
| 284AD                    | Heavy Duty  | 2-1/16"     | Black       | Black/Brushed Ring | Ammeter                    | 413717        |

# BOOST/BLOWER/MANIFOLD PRESSURE

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 4 Bar Boost Pressure   |             |         |        |                    |                                |               |
|------------------------|-------------|---------|--------|--------------------|--------------------------------|---------------|
| Model #                | Line        | Size    | Dial   | Bezel              | Notes                          | Tubing Kit    |
| 114331                 | Competition | 2-1/16" | Silver | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114330                 | Competition | 2-1/16" | Black  | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114332                 | Competition | 2-1/16" | White  | Black              | Boost Pressure (Mechanical)    | Included      |
| 15 PSI Boost Pressure  |             |         |        |                    |                                |               |
| Model #                | Line        | Size    | Dial   | Bezel              | Notes                          | Tubing Kit    |
| 114374                 | Competition | 2-1/16" | Silver | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114373                 | Competition | 2-1/16" | Black  | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114375                 | Competition | 2-1/16" | White  | Black              | Boost Pressure (Mechanical)    | Included      |
| 284BF                  | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Boost Pressure (Mechanical)    | 114840/114841 |
| 30 PSI Boost Pressure  |             |         |        |                    |                                |               |
| Model #                | Line        | Size    | Dial   | Bezel              | Notes                          | Tubing Kit    |
| 114377                 | Competition | 2-1/16" | Silver | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114376                 | Competition | 2-1/16" | Black  | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114378                 | Competition | 2-1/16" | White  | Black              | Boost Pressure (Mechanical)    | Included      |
| 119916                 | Impact      | 2-1/16" | Black  | Polished Stainless | Boost (Mechanical)             | Included      |
| 119820                 | Impact      | 2-1/16" | White  | Polished Stainless | Boost (Mechanical)             | Included      |
| 82321                  | Deluxe      | 2-1/16" | Black  | Stainless          | Manifold Pressure (Mechanical) | 114840/114841 |
| 60 PSI Boost Pressure  |             |         |        |                    |                                |               |
| Model #                | Line        | Size    | Dial   | Bezel              | Notes                          | Tubing Kit    |
| 114525                 | Competition | 2-1/16" | Silver | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114524                 | Competition | 2-1/16" | Black  | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114526                 | Competition | 2-1/16" | White  | Black              | Boost Pressure (Mechanical)    | Included      |
| 114528                 | Competition | 2-5/8"  | Silver | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114527                 | Competition | 2-5/8"  | Black  | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114529                 | Competition | 2-5/8"  | White  | Black              | Boost Pressure (Mechanical)    | Included      |
| 119917                 | Impact      | 2-1/16" | Black  | Polished Stainless | Boost (Mechanical)             | Included      |
| 119821                 | Impact      | 2-1/16" | White  | Polished Stainless | Boost (Mechanical)             | Included      |
| 100 PSI Boost Pressure |             |         |        |                    |                                |               |
| Model #                | Line        | Size    | Dial   | Bezel              | Notes                          | Tubing Kit    |
| 114386                 | Competition | 2-1/16" | Silver | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114385                 | Competition | 2-1/16" | Black  | Silver             | Boost Pressure (Mechanical)    | Included      |
| 114387                 | Competition | 2-1/16" | White  | Black              | Boost Pressure (Mechanical)    | Included      |
| 114531                 | Competition | 2-1/16" | Silver | Silver             | Blower Pressure (Mechanical)   | Included      |
| 114530                 | Competition | 2-1/16" | Black  | Silver             | Blower Pressure (Mechanical)   | Included      |
| 114532                 | Competition | 2-1/16" | White  | Black              | Blower Pressure (Mechanical)   | Included      |
| 114534                 | Competition | 2-5/8"  | Silver | Silver             | Blower Pressure (Mechanical)   | Included      |
| 114533                 | Competition | 2-5/8"  | Black  | Silver             | Blower Pressure (Mechanical)   | Included      |
| 114535                 | Competition | 2-5/8"  | White  | Black              | Blower Pressure (Mechanical)   | Included      |
| 119918                 | Impact      | 2-1/16" | Black  | Polished Stainless | Boost (Mechanical)             | Included      |
| 119822                 | Impact      | 2-1/16" | White  | Polished Stainless | Boost (Mechanical)             | Included      |

# Vac/Boost / VACUUM

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 30Hg/15 PSI Vac/Boost Pressure  |             |         |        |           |                        |               |
|---------------------------------|-------------|---------|--------|-----------|------------------------|---------------|
| Model #                         | Line        | Size    | Dial   | Bezel     | Notes                  | Tubing Kit    |
| 114537                          | Competition | 2-1/16" | Silver | Silver    | Vac/Boost (Mechanical) | Included      |
| 114536                          | Competition | 2-1/16" | Black  | Silver    | Vac/Boost (Mechanical) | Included      |
| 114538                          | Competition | 2-1/16" | White  | Black     | Vac/Boost (Mechanical) | Included      |
| 114540                          | Competition | 2-5/8"  | Silver | Silver    | Vac/Boost (Mechanical) | Included      |
| 114539                          | Competition | 2-5/8"  | Black  | Silver    | Vac/Boost (Mechanical) | Included      |
| 114541                          | Competition | 2-5/8"  | White  | Black     | Vac/Boost (Mechanical) | Included      |
| 119915                          | Impact      | 2-1/16" | Black  | Stainless | Vac/Boost (Mechanical) | Included      |
| 119819                          | Impact      | 2-1/16" | White  | Stainless | Vac/Boost (Mechanical) | Included      |
| 82340                           | Deluxe      | 2-1/16" | Black  | Stainless | Vac/Boost (Mechanical) | 114840/114841 |
| 30Hg/25 PSI Vac/Boost Pressure  |             |         |        |           |                        |               |
| Model #                         | Line        | Size    | Dial   | Bezel     | Notes                  | Tubing Kit    |
| 114380                          | Competition | 2-1/16" | Silver | Silver    | Vac/Boost (Mechanical) | Included      |
| 114379                          | Competition | 2-1/16" | Black  | Silver    | Vac/Boost (Mechanical) | Included      |
| 114381                          | Competition | 2-1/16" | White  | Black     | Vac/Boost (Mechanical) | Included      |
| 30Hg/40 PSI Vac/Boost Pressure  |             |         |        |           |                        |               |
| Model #                         | Line        | Size    | Dial   | Bezel     | Notes                  | Tubing Kit    |
| 114543                          | Competition | 2-1/16" | Silver | Silver    | Vac/Boost (Mechanical) | Included      |
| 114542                          | Competition | 2-1/16" | Black  | Silver    | Vac/Boost (Mechanical) | Included      |
| 114544                          | Competition | 2-1/16" | White  | Black     | Vac/Boost (Mechanical) | Included      |
| 114546                          | Competition | 2-5/8"  | Silver | Silver    | Vac/Boost (Mechanical) | Included      |
| 114545                          | Competition | 2-5/8"  | Black  | Silver    | Vac/Boost (Mechanical) | Included      |
| 114547                          | Competition | 2-5/8"  | White  | Black     | Vac/Boost (Mechanical) | Included      |
| 82492                           | Wings       | 2-1/16" | Black  | Chrome    | Vac/Boost (Mechanical) | 114840/114841 |
| 82491                           | Wings       | 2-1/16" | White  | Chrome    | Vac/Boost (Mechanical) | 114840/114841 |
| 80cmHg/1 Bar Vac/Boost Pressure |             |         |        |           |                        |               |
| Model #                         | Line        | Size    | Dial   | Bezel     | Notes                  | Tubing Kit    |
| 114334                          | Competition | 2-1/16" | Silver | Silver    | Vac/Boost (Mechanical) | Included      |
| 114333                          | Competition | 2-1/16" | Black  | Silver    | Vac/Boost (Mechanical) | Included      |
| 114335                          | Competition | 2-1/16" | White  | Black     | Vac/Boost (Mechanical) | Included      |
| 80cmHg/3 Bar Vac/Boost Pressure |             |         |        |           |                        |               |
| Model #                         | Line        | Size    | Dial   | Bezel     | Notes                  | Tubing Kit    |
| 114337                          | Competition | 2-1/16" | Silver | Silver    | Vac/Boost (Mechanical) | Included      |
| 114336                          | Competition | 2-1/16" | Black  | Silver    | Vac/Boost (Mechanical) | Included      |
| 114338                          | Competition | 2-1/16" | White  | Black     | Vac/Boost (Mechanical) | Included      |

## Vacuum

| 30Hg Vacuum |             |         |        |                    |              |                           |
|-------------|-------------|---------|--------|--------------------|--------------|---------------------------|
| Model #     | Line        | Size    | Dial   | Bezel              | Notes        | Tubing Kit                |
| 114301      | Competition | 2-1/16" | Silver | Silver             | Vacuum       | Included                  |
| 114300      | Competition | 2-1/16" | Black  | Silver             | Vacuum       | Included                  |
| 114302      | Competition | 2-1/16" | White  | Black              | Vacuum       | Included                  |
| 114304      | Competition | 2-5/8"  | Silver | Silver             | Vacuum       | Included                  |
| 114303      | Competition | 2-5/8"  | Black  | Silver             | Vacuum       | Included                  |
| 114305      | Competition | 2-5/8"  | White  | Black              | Vacuum       | Included                  |
| 82328       | Deluxe      | 2-1/16" | Black  | Stainless          | Vacuum       | 114842                    |
| 82411       | Deluxe      | 2-5/8"  | Black  | Stainless          | Vacuum       | 114842                    |
| 284AH       | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Vacuum       | 114842                    |
| 82301       | Heavy Duty  | 2-1/16" | Black  | Black/Brushed Ring | Motor Minder | Includes T-Fitting & hose |

# TACHOMETERS

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| <b>Ultra-Shift Lights™ - Digital Tachometers with Peak Recall and additional features</b> |             |             |             |              |                            |                 |
|---|-------------|-------------|-------------|--------------|----------------------------|-----------------|
| <b>Model #</b>  | <b>Line</b> | <b>Size</b> | <b>LED</b>  | <b>Bezel</b> | <b>Notes</b>               | <b>Includes</b> |
| 114906  | Competition | Tube        | Amber       | N/A          | 13,000 RPM                 |                 |
| 114919  | Competition | Tube        | Blue        | N/A          | 13,000 RPM                 |                 |
| 114918  | Competition | Tube        | Red         | N/A          | 13,000 RPM                 |                 |
| 114946  | Competition | Tube        | Amber       | N/A          | 13,000 RPM Paintable       |                 |
| 114948  | Competition | Tube        | Blue        | N/A          | 13,000 RPM Paintable       |                 |
| 114947  | Competition | Tube        | Red         | N/A          | 13,000 RPM Paintable       |                 |
| 114958  | Competition | Tube        | Amber       | N/A          | 18,000 RPM; Window Switch  | 30A relay       |
| 114960  | Competition | Tube        | Blue        | N/A          | 18,000 RPM; Window Switch  | 30A relay       |
| 114959  | Competition | Tube        | Red         | N/A          | 18,000 RPM; Window Switch  | 30A relay       |
| 114926  | Competition | Tube        | Amber       | N/A          | 18,000 RPM; 4-Shift Points |                 |
| 114928  | Competition | Tube        | Blue        | N/A          | 18,000 RPM; 4-Shift Points |                 |
| 114927  | Competition | Tube        | Red         | N/A          | 18,000 RPM; 4-Shift Points |                 |
| 114929  | Competition | 2-1/16"     | Amber       | Black        | 18,000 RPM                 |                 |
| 114931  | Competition | 2-1/16"     | Blue        | Black        | 18,000 RPM                 |                 |
| 114930  | Competition | 2-1/16"     | Red         | Black        | 18,000 RPM                 |                 |
| 114949  | Competition | 2-1/16"     | Amber       | Silver       | 18,000 RPM                 |                 |
| 114951  | Competition | 2-1/16"     | Blue        | Silver       | 18,000 RPM                 |                 |
| 114950  | Competition | 2-1/16"     | Red         | Silver       | 18,000 RPM                 |                 |
| <b>Memory Tachometers - 11,000 RPM</b>  |             |             |             |              |                            |                 |
| <b>Model #</b>  | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b> | <b>Notes</b>               |                 |
| 114013  | Competition | 5"          | Silver      | Silver       | Externa; Shift Light       |                 |
| 114012  | Competition | 5"          | Black       | Silver       | Externa; Shift Light       |                 |
| 114014  | Competition | 5"          | White       | Black        | Externa; Shift Light       |                 |
| <b>Memory Tachometers - 10,000 RPM</b>  |             |             |             |              |                            |                 |
| <b>Model #</b>  | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b> | <b>Notes</b>               |                 |
| 114110  | Competition | 3-3/8"      | Silver      | Silver       | Shift Light in dial        |                 |
| 114109  | Competition | 3-3/8"      | Black       | Silver       | Shift Light in dial        |                 |
| 114111  | Competition | 3-3/8"      | White       | Black        | Shift Light in dial        |                 |
| 114019  | Competition | 5"          | Silver      | Silver       | Shift Light optional       |                 |
| 114018  | Competition | 5"          | Black       | Silver       | Shift Light optional       |                 |
| 114020  | Competition | 5"          | White       | Black        | Shift Light optional       |                 |
| 114113  | Competition | 3-3/8"      | Silver      | Silver       | Shift Light in dial        |                 |
| 114112  | Competition | 3-3/8"      | Black       | Silver       | Shift Light in dial        |                 |
| 114114  | Competition | 3-3/8"      | White       | Black        | Shift Light in dial        |                 |
| 114025  | Competition | 5"          | Silver      | Silver       | No microprocessor          |                 |
| 114024  | Competition | 5"          | Black       | Silver       | No microprocessor          |                 |
| 114026  | Competition | 5"          | White       | Black        | No microprocessor          |                 |
| <b>Memory Tachometers - 9,000 RPM</b>   |             |             |             |              |                            |                 |
| <b>Model #</b>  | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b> | <b>Notes</b>               |                 |
| 114016  | Competition | 5"          | Silver      | Silver       | Externa; Shift Light       |                 |
| 114015  | Competition | 5"          | Black       | Silver       | Externa; Shift Light       |                 |
| 114017  | Competition | 5"          | White       | Black        | Externa; Shift Light       |                 |
| <b>Standard Tachometers - 10,000 RPM</b>  |             |             |             |              |                            |                 |
| <b>Model #</b>  | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b> | <b>Notes</b>               |                 |
| 114001  | Competition | 5"          | Silver      | Silver       | Vertical Dial              |                 |
| 114000  | Competition | 5"          | Black       | Silver       | Vertical Dial              |                 |
| 114002  | Competition | 5"          | White       | Black        | Vertical Dial              |                 |

# TACHOMETERS

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| Standard Tachometers - 10,000 RPM |              |        |                |                    |                           |  |
|-----------------------------------|--------------|--------|----------------|--------------------|---------------------------|--|
| Model #                           | Line         | Size   | Dial           | Bezel              | Notes                     |  |
| 114101                            | Competition  | 3-3/8" | Silver         | Silver             | Vertical Dial             |  |
| 114100                            | Competition  | 3-3/8" | Black          | Silver             | Vertical Dial             |  |
| 114102                            | Competition  | 3-3/8" | White          | Black              | Vertical Dial             |  |
| 114007                            | Competition  | 5"     | Silver         | Silver             | Horizontal Dial           |  |
| 114006                            | Competition  | 5"     | Black          | Silver             | Horizontal Dial           |  |
| 114008                            | Competition  | 5"     | White          | Black              | Horizontal Dial           |  |
| 114107                            | Competition  | 3-3/8" | Silver         | Silver             | Horizontal Dial           |  |
| 114106                            | Competition  | 3-3/8" | Black          | Silver             | Horizontal Dial           |  |
| 114108                            | Competition  | 3-3/8" | White          | Black              | Horizontal Dial           |  |
| 82699                             | Deluxe       | 5"     | Black          | Stainless          | Ignition Coil             |  |
| 82849                             | 5" Line      | 5"     | Black          | Stainless          | Wings Logo (Ignition)     |  |
| 82847                             | 5" Line      | 5"     | White          | Stainless          | Wings Logo (Ignition)     |  |
| Standard Tachometers - 9,000 RPM  |              |        |                |                    |                           |  |
| Model #                           | Line         | Size   | Dial           | Bezel              | Notes                     |  |
| 535AH-D                           | Deluxe       | 3-3/8" | Black          | Stainless          | Mechanical; .5:1 Ratio    |  |
| Standard Tachometers - 8,000 RPM  |              |        |                |                    |                           |  |
| Model #                           | Line         | Size   | Dial           | Bezel              | Notes                     |  |
| 114004                            | Competition  | 5"     | Silver         | Silver             | Vertical Dial             |  |
| 114003                            | Competition  | 5"     | Black          | Silver             | Vertical Dial             |  |
| 114005                            | Competition  | 5"     | White          | Black              | Vertical Dial             |  |
| 114104                            | Competition  | 3-3/8" | Silver         | Silver             | Vertical Dial             |  |
| 114103                            | Competition  | 3-3/8" | Black          | Silver             | Vertical Dial             |  |
| 114105                            | Competition  | 3-3/8" | White          | Black              | Vertical Dial             |  |
| 114010                            | Competition  | 5"     | Silver         | Silver             | Horizontal Dial           |  |
| 114009                            | Competition  | 5"     | Black          | Silver             | Horizontal Dial           |  |
| 114011                            | Competition  | 5"     | White          | Black              | Horizontal Dial           |  |
| 114116                            | Competition  | 3-3/8" | Silver         | Silver             | Horizontal Dial           |  |
| 114115                            | Competition  | 3-3/8" | Black          | Silver             | Horizontal Dial           |  |
| 114117                            | Competition  | 3-3/8" | White          | Black              | Horizontal Dial           |  |
| 82170                             | Deluxe       | 3-3/8" | Black          | Stainless          | 4-, 6-, 8-Cyl; 12 Pole    |  |
| 82163                             | Deluxe       | 3-3/8" | Black          | Stainless          | 4-, 8-, 12-Cyl; 20 Pole   |  |
| 82660                             | Wings        | 3-3/8" | Black          | Chrome             | 4, 6, 8-cylinder          |  |
| 82659                             | Wings        | 3-3/8" | White          | Chrome             | 4, 6, 8-cylinder          |  |
| 82613                             | Wings        | 3-3/8" | Beige          | Chrome             | 4, 6, 8-cylinder          |  |
| 82608                             | Wings        | 3-3/8" | Beige          | Gold               | 4, 6, 8-cylinder          |  |
| 82614                             | Wings        | 3-3/8" | Silver         | Chrome             | 4, 6, 8-cylinder          |  |
| 82838                             | Power Series | 3-3/8" | Blue/Gray Ring | Chrome             | 4, 6, 8-cylinder          |  |
| 82845                             | Power Series | 3-3/8" | Burgundy Ring  | Chrome             | 4, 6, 8-cylinder          |  |
| 82837                             | Power Series | 3-3/8" | Titanium Ring  | Chrome             | 4, 6, 8-cylinder          |  |
| 82165                             | Heavy Duty   | 3-3/8" | Black          | Black/Brushed Ring | 4-, 8-, 12-Cyl (Ignition) |  |
| 82171B                            | Heavy Duty   | 3-3/8" | Black          | Black/Brushed Ring | 4-, 6-, 8-Cyl (Ignition)  |  |

# TACHOMETERS

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| <b>Diesel Tachometers - 6,000 RPM</b>   |             |             |             |                    |   |  |
|---|-------------|-------------|-------------|--------------------|---|--|
| <b>Model #</b>                          | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b>       | <b>Notes</b>  |  |
| 114028                                  | Competition | 5"          | Silver      | Silver             | Diesel applications                                     |  |
| 114027                                  | Competition | 5"          | Black       | Silver             | Diesel applications                                     |  |
| 114129                                  | Competition | 5"          | White       | Black              | Diesel applications                                     |  |
| 114031                                  | Competition | 3-3/8"      | Silver      | Silver             | Diesel applications                                     |  |
| 114030                                  | Competition | 3-3/8"      | Black       | Silver             | Diesel applications                                     |  |
| 114032                                  | Competition | 3-3/8"      | White       | Black              | Diesel applications                                     |  |
| <b>Standard Tachometers - 6,000 RPM</b> |             |             |             |                    |   |  |
| <b>Model #</b>                          | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b>       | <b>Notes</b>  |  |
| 82162B                                  | Deluxe      | 3-3/8"      | Black       | Stainless          | 4-, 6-, 8-Cyl   |  |
| 82162                                   | Deluxe      | 3-3/8"      | Black       | Stainless          | 4-, 6-, 8-Cyl; 12 Pole                                  |  |
| 535AK-D                                 | Heavy Duty  | 3-3/8"      | Black       | Black/Brushed Ring | Mechanical; .5:1 Ratio                                  |  |
| 82164B                                  |             | 3-3/8"      | Black       | Black/Brushed Ring | 4-, 6-, 8-Cyl (Ignition)                                |  |
| <b>Standard Tachometers - 5,000 RPM</b> |             |             |             |                    |   |  |
| <b>Model #</b>                          | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b>       | <b>Notes</b>  |  |
| 551AKM-D                                | Deluxe      | 5"          | Black       | Stainless          | Mechanical; .5:1 Ratio                                  |  |
| <b>Diesel Tachometers - 3,500 RPM</b>   |             |             |             |                    |   |  |
| <b>Model #</b>                          | <b>Line</b> | <b>Size</b> | <b>Dial</b> | <b>Bezel</b>       | <b>Notes</b>  |  |
| 82672                                   | Wings       | 3-3/8"      | Black       | Chrome             | alternator or order sender<br>114878                    |  |
| 82671                                   | Wings       | 3-3/8"      | White       | Chrome             | alternator or order sender<br>114878                    |  |
| 82674                                   | Wings       | 3-3/8"      | Black       | Chrome             | tone/flywheel applications and<br>requires sender 82646 |  |
| 82673                                   | Wings       | 3-3/8"      | White       | Chrome             | tone/flywheel applications and<br>requires sender 82646 |  |

# SPEEDOMETERS

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 80 MPH  |              |        |                |                    |                          |                 |
|---------|--------------|--------|----------------|--------------------|--------------------------|-----------------|
| Model # | Line         | Size   | Dial           | Bezel              | Notes                    | Sender          |
| 82666   | Wings        | 3-3/8" | Black          | Chrome             | Mechanical               |                 |
| 82665   | Wings        | 3-3/8" | White          | Chrome             | Mechanical               |                 |
| 550HF-D | Heavy Duty   | 3-3/8" | Black          | Black/Brushed Ring | Mechanical               |                 |
| 85 MPH  |              |        |                |                    |                          |                 |
| Model # | Line         | Size   | Dial           | Bezel              | Notes                    | Sender          |
| 82642   | Heavy Duty   | 3-3/8" | Black          | Black/Brushed Ring | Dip Switches             | 114878 or 82646 |
| 82604   | Heavy Duty   | 3-3/8" | Black          | Black/Brushed Ring |                          | Square Wave     |
| 120 MPH |              |        |                |                    |                          |                 |
| Model # | Line         | Size   | Dial           | Bezel              | Notes                    | Sender          |
| 114701  | Competition  | 3-3/8" | Silver         | Silver             | Calibration Button       |                 |
| 114700  | Competition  | 3-3/8" | Black          | Silver             | Calibration Button       |                 |
| 114702  | Competition  | 3-3/8" | White          | Black              | Calibration Button       |                 |
| 82896   | Deluxe       | 3-3/8" | Black          | Stainless          | Dip Switches             | 82527 or 82646  |
| 82670   | Wings        | 3-3/8" | Black          | Chrome             | Dip Switches             | 82527 or 82646  |
| 82669   | Wings        | 3-3/8" | White          | Chrome             | Dip Switches             | 82527 or 82646  |
| 160 MPH |              |        |                |                    |                          |                 |
| Model # | Line         | Size   | Dial           | Bezel              | Notes                    | Sender          |
| 114710  | Competition  | 5"     | Silver         | Silver             | Calibration Button       |                 |
| 114709  | Competition  | 5"     | Black          | Silver             | Calibration Button       |                 |
| 114711  | Competition  | 5"     | White          | Black              | Calibration Button       |                 |
| 114704  | Competition  | 3-3/8" | Silver         | Silver             | Calibration Button       |                 |
| 114703  | Competition  | 3-3/8" | Black          | Silver             | Calibration Button       |                 |
| 114705  | Competition  | 3-3/8" | White          | Black              | Calibration Button       |                 |
| 550BP-D | Deluxe       | 3-3/8" | Black          | Stainless          | Mechanical               |                 |
| 82698   | Deluxe       | 5"     | Black          | Stainless          | Dip Switches             | 114878 or 82646 |
| 82898   | Deluxe       | 5"     | White          | Stainless          | Dip Switches             | 114878 or 82646 |
| 82664   | Wings        | 3-3/8" | Black          | Chrome             | Mechanical               |                 |
| 82663   | Wings        | 3-3/8" | White          | Chrome             | Mechanical               |                 |
| 82662   | Wings        | 3-3/8" | Black          | Chrome             | Dip Switches             | 114878 or 82646 |
| 82661   | Wings        | 3-3/8" | White          | Chrome             | Dip Switches             | 114878 or 82646 |
| 82612   | Wings        | 3-3/8" | Beige          | Chrome             | Dip Switches             | 114878 or 82646 |
| 82607   | Wings        | 3-3/8" | Beige          | Gold               | Dip Switches             | 114878 or 82646 |
| 82611   | Wings        | 3-3/8" | Silver         | Chrome             | Dip Switches             | 114878 or 82646 |
| 82848   | 5"           | 5"     | Black          | Stainless          | Wings Logo; Dip Switches | 114878 or 82646 |
| 82846   | 5"           | 5"     | White          | Stainless          | Wings Logo; Dip Switches | 114878 or 82646 |
| 82841   | Power Series | 3-3/8" | Blue/Gray Ring | Chrome             | Dip Switches             | 114878 or 82846 |
| 82839   | Power Series | 3-3/8" | Burgundy Ring  | Chrome             | Dip Switches             | 114878 or 82846 |
| 82840   | Power Series | 3-3/8" | Titanium Ring  | Chrome             | Dip Switches             | 114878 or 82846 |
| 550HH-D | Heavy Duty   | 3-3/8" | Black          | Black/Brushed Ring | Mechanical               |                 |

# SPEEDOMETERS

Competition Tachs & Gauges Pg 10; Deluxe™ Pg 24; Impact™ Pg 30; Wings Pg 32; Power Series™ Pg 36; Standard™ Pg 40; Heavy Duty™ Pg 42

| 180 MPH |             |        |        |           |                    |                                      |
|---------|-------------|--------|--------|-----------|--------------------|--------------------------------------|
| Model # | Line        | Size   | Dial   | Bezel     | Notes              | Sender                               |
| 550ABE  | Deluxe      | 3-3/8" | Black  | Stainless | Mechanical-Reverse | 411335-D (counter clockwise adapter) |
| 200 MPH |             |        |        |           |                    |                                      |
| Model # | Line        | Size   | Dial   | Bezel     | Notes              | Sender                               |
| 114707  | Competition | 3-3/8" | Silver | Silver    | Calibration Button |                                      |
| 114706  | Competition | 3-3/8" | Black  | Silver    | Calibration Button |                                      |
| 114708  | Competition | 3-3/8" | White  | Black     | Calibration Button |                                      |
| 200 MPH |             |        |        |           |                    |                                      |
| Model # | Line        | Size   | Dial   | Bezel     | Notes              | Sender                               |
| 114707  | Competition | 3-3/8" | Silver | Silver    | Calibration Button |                                      |
| 114706  | Competition | 3-3/8" | Black  | Silver    | Calibration Button |                                      |
| 114708  | Competition | 3-3/8" | White  | Black     | Calibration Button |                                      |
| 140 KPH |             |        |        |           |                    |                                      |
| Model # | Line        | Size   | Dial   | Bezel     | Notes              | Sender                               |
| 82697   | Deluxe      | 3-3/8" | Black  | Stainless | Mechanical         |                                      |
| 82656   | Deluxe      | 3-3/8" | Black  | Stainless | Dip Switches       | 114878 or 82646                      |
| 260 KPH |             |        |        |           |                    |                                      |
| Model # | Line        | Size   | Dial   | Bezel     | Notes              | Sender                               |
| 114716  | Competition | 5"     | Silver | Silver    | Calibration Button |                                      |
| 114715  | Competition | 5"     | Black  | Silver    | Calibration Button |                                      |
| 114717  | Competition | 5"     | White  | Black     | Calibration Button |                                      |
| 114716  | Competition | 3-3/8" | Silver | Silver    | Calibration Button |                                      |
| 114712  | Competition | 3-3/8" | Black  | Silver    | Calibration Button |                                      |
| 114714  | Competition | 3-3/8" | White  | Black     | Calibration Button |                                      |



If this flu keeps up,  
I'll be out of the office next week, too.



Obsessed with winning? So are we.  
Demand the world's most accurate, readable, reliable gauges.



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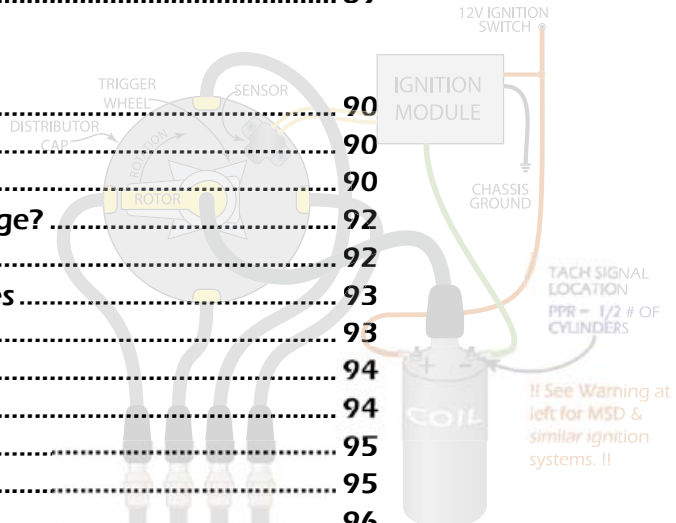
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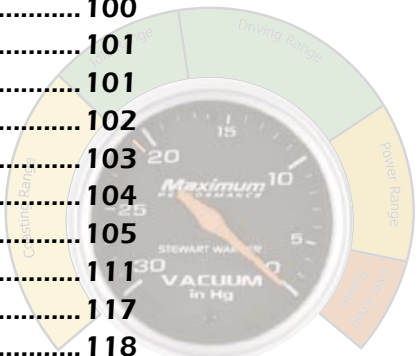
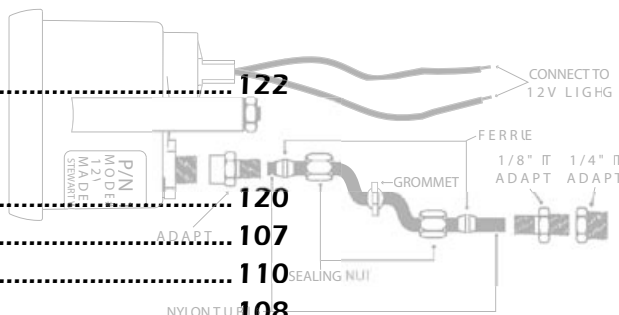
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## Warranty

### **Distributor Warranty Policy**

Maxima Technologies warrants its Stewart Warner brand products against defects in workmanship and materials for a period of twenty-four (24) months from the date of purchase. These products must be installed and operated according to the purpose for which they were intended, designed, and specified. This warranty excludes items that are incorrectly installed, misused or abused by the customer as would be uncovered upon examination. If a suspect product is returned to Maxima for inspection, upon which it is determined that the product is in fact defective, Maxima will replace the product free-of-charge or issue credit to the customer. Maxima will not assume responsibility for labor costs associated with the removal of suspect product or the cost of equipment downtime, or any other costs associated with the concerns that are not specifically related to workmanship or materials.

If proof-of-purchase is not available, the warranty period defaults to two (2) years from the date of manufacture of the product (as referenced by the date code on the product label).

Hobbs products shall be warranted for a period of one (1) year in accordance with the terms and conditions stated above.

### **Returned Materials Policy**

ANY PRODUCT TO BE RETURNED TO MAXIMA FOR ANY REASON MUST INCLUDE A RETURNED MATERIALS AUTHORIZATION (RMA). The RMA must be obtained in advance from a Maxima quality representative who will determine whether to process the request. Maxima's quality personnel will assign an RMA number and the customer must identify this information on the package(s) to be returned to Maxima. All returns must be shipped pre-paid with traceability to Maxima. Upon receipt of suspect material, Maxima's quality personnel will provide appropriate disposition, in which case our warranty policy may or may not apply.

## Tech Support: PPR

### DO I NEED A TACH ADAPTER?

In most cases a tach adapter is not required with the Competition Tachs & Gauges line of tachometers.

The exception is if your ECU “multi-sparks” the plugs. If so, the RPM display may be erratic or read high. In this case the signal/control wire can not be used for the tachometer signal. You will need to connect to the signal wire from the ECU/Ignition Module that feeds the factory tachometer. If this signal wire is not available then you will need to use a tach adapter.

If you're not sure if your system “multi-sparks” we suggest you try our tachs without a tach adapter before spending the extra money.

### WHAT PPR DO I SET MY TACH TO?

This depends on your ignition system. See the question “What is PPR?” at left if you want more details. Below is a quick reference.

#### Distributor Ignition Systems:

Your PPR setting is half the number of cylinders

Example: for an 8-cylinder vehicle the PPR setting would be 4

#### Coil Pack/Distributorless/Wasted Spark Ignition Systems:

Your PPR setting is always 1

#### Coil On Plug/Coil Near Plug Ignition Systems:

Your PPR setting is always .5

**NOTE:** If your ECU “multi-sparks” the plugs, the RPM display may be erratic or read high. In this case you either must connect the tach to the signal wire from the ECU/Ignition Module that feeds the factory tach or if that is not available you will need to use a tach adapter.

### WHAT IS PPR?

PPR stands for Pulses Per Revolution. The “Revolution” refers to one full turn of the crankshaft. The “Pulses” refer to an electrical pulse created on the coil signal/control wire every time the coil fires the plug. The number of pulses created on the signal/control wire for each revolution depends on the ignition system. Determining the PPR required for your system is simple if you follow the rules below.

**CAUTION:** In most cases a tach adapter is not required for the Competition Tachs & Gauges line of tachometers BUT if your ignition system “multi-sparks” you might need a tach adapter - see the **NOTE** below to help determine if you need one.

#### Distributor Ignition Systems:

1 coil for all plugs

On a Distributor Ignition System the rotor turns at half the speed of the crank shaft. With this type of system you would divide the number of cylinders by two to determine the PPR setting for a Competition Tachs & Gauges tachometer. Example: a tach on 4-cylinder engine would be set to 2 PPR.

More detailed explanation using a 4-cylinder engine:

As the distributor rotates there are four positions where the coil fires and as the rotor reaches each point in turn, the spark plug for that position is fired. Since the rotor is turning at half the speed of the crankshaft, only two plugs are fired (creating two pulses), during on full revolution of the crankshaft. Thus, 2 pulses per revolution on a 4-cylinder (2 PPR).

A 6-cylinder would have 3 pulses per revolution; an 8-cylinder would have 4 pulses, etc.

#### Vehicles with factory ECUs:

Although not always available, it's most desirable to connect to the tach signal wire from the ECU to the factory instrument cluster. The PPR setting for this connection is usually the number of cylinders divided by 2. A 4-cylinder engine would be set to 2 PPR, a 6-cylinder engine to 3 PPR, etc.

#### Coil Packs/Distributorless/Wasted Spark Ignition Systems:

1 coil for each pair of plugs

On these systems one coil ignites two spark plugs at the same time. Your PPR setting will always be 1 PPR when connecting to one of the coil trigger wires.

#### Coil On Plug/Coil Near Plug Ignition Systems:

1 coil for each plug

There is one signal/control wire for each coil/spark plug. When connecting to any one of these signal/control wires, your PPR setting will always be .5.

**NOTE:** Some manufacturers “multi-spark” the plugs for better emissions control.

If your ECU multi-sparks, the RPM display on the tach may be erratic or high. In this case the signal/control wire can not be used for the tachometer signal.

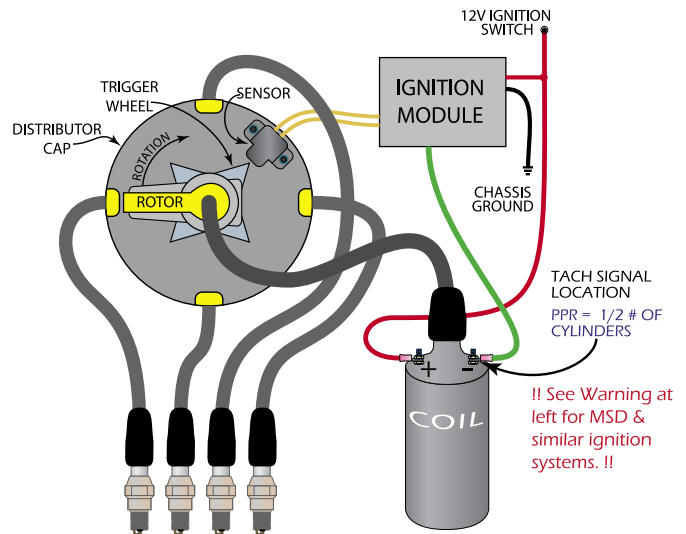
You will need to connect to the signal wire from the ECU/Ignition Module that feeds the factory tachometer (if available). The PPR setting is generally half the number of cylinders.

Not all vehicles have a factory tachometer wire and in this case, the use of a tach adapter is required. Refer to the adapter instructions for the PPR setting.

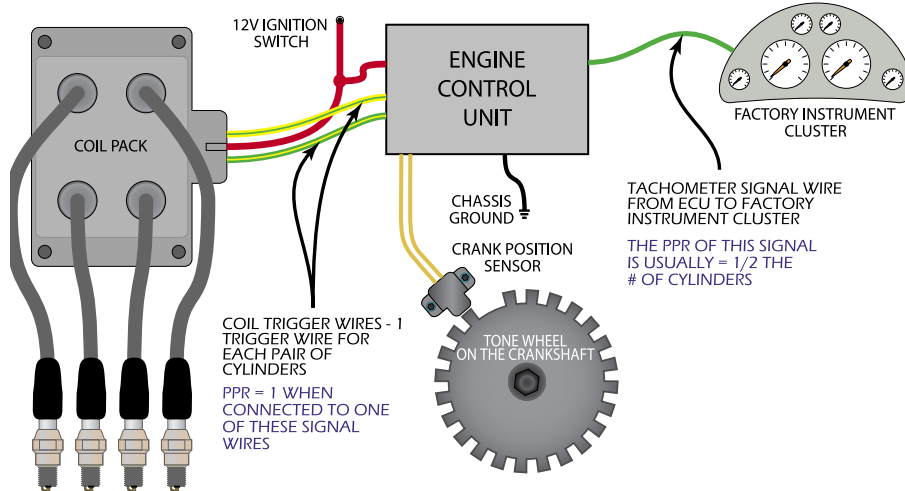
## Tech Support: PPR

**Warning! Never connect green wire to the coil when using an MSD or similar high output capacitive discharge style ignition system. Damage to the tachometer will occur - in this case connect GREEN tach wire to the tachometer terminal only.**

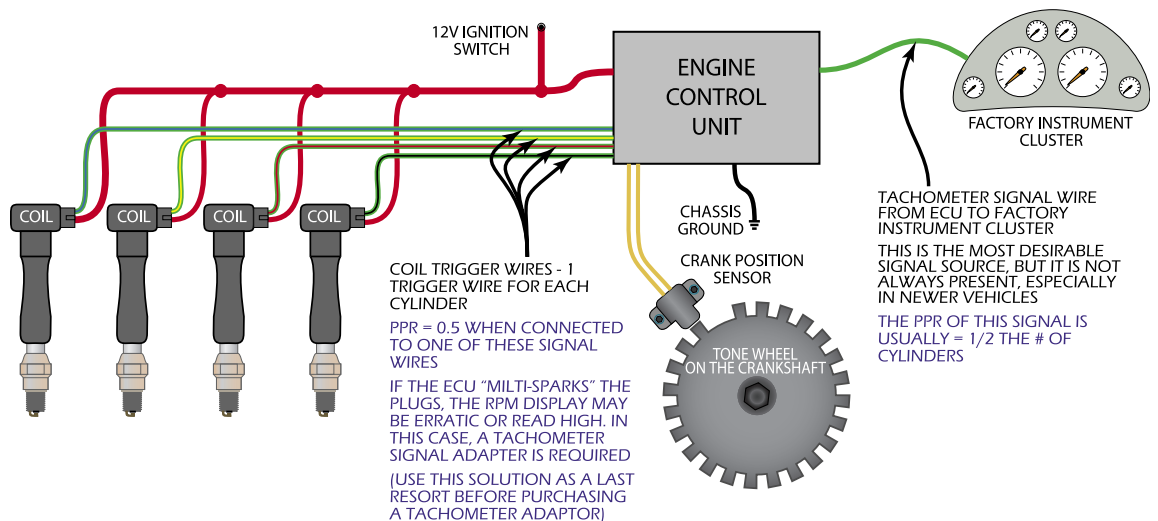
### DISTRIBUTOR IGNITION SYSTEM



### COIL PACK, DISTRIBUTORLESS, OR WASTED SPARK IGNITION SYSTEM



### COIL NEAR PLUG OR COIL ON PLUG IGNITION SYSTEM



## Tech Support:

### WHICH PROBE FOR EXHAUST TEMPERATURE GAUGE?

**Stewart Warner lists three types of probes for use with our Exhaust Temperature Gauges (also known as pyrometers).**

#### **Street Probe:**

Someone who drives their vehicle daily and races occasionally, or not at all should use the street probe. - This probe has more shielding and will last longer than the high performance probe but will not respond as quickly to temperature changes.

#### **Street Performance Probe:**

Someone that races often and does not drive the vehicle on the street daily should use the street performance probe. - This probe has less shielding than the street probe so it will react to temperature changes quicker but may not last as long.

#### **High Performance Probe:**

The hard core racer that has a vehicle that is raced often and is rarely or never street driven will want the high performance probe. - This probe has an exposed thermocouple junction (no shielding) which gives the ultimate reaction time to temperature change but has no protection and it's life will be short.

#### **Life Span of a Probe:**

We can not give the expected life of a probe since this depends on usage and driving style. You must periodically inspect the probe for wear and replace when needed.

**CAUTION:** Only use the supplied thermocouple extension wire to connect the probe to the gauge. Do not alter the length of the thermocouple extension wire. Using any other wire or altering the length of the extension wire can cause severely inaccurate temperature readings.

### MEASURING FUEL LEVEL SENDER RESISTANCE

Fuel-level gauges, like electric gauges, are designed to work with specific fuel-level senders. Each sender is designed with a specific resistive input range so you must first measure the resistance of your existing sender - measured in Ohms.

On the top of your sender, you'll find a couple of wires. Since there are thousands of combinations for different vehicles, refer to your Owner's Manual or Shop Manual to determine which wire is linked from the sender directly to the gauge.

To measure the resistance, disconnect the plug at the sender and use a digital multi meter set for Ohms.

Depending on how your sender is grounded, do one of the following:

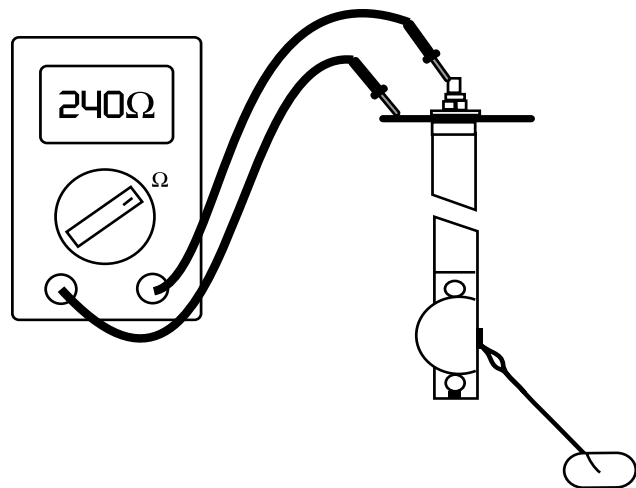
a) If the sender is grounded through the fuel tank - connect one lead of the multi meter to the sender wire and the other lead to the body of the sender, as shown in the table below.

b) When the sender is not grounded through the fuel tank - connect one lead of the multi meter to the sender wire and the other lead to the ground wire of the sender.

Measure the resistance when the tank is empty, and then again when the tank is full. Once you know the resistance range of your sender, refer to the chart below to select the right fuel gauge.

| Ohms/Resistance (Empty/Full) | Popular Models                                |
|------------------------------|---|
| 0-90 Ohms                    | Works on most GM cars, 1965 to present        |
| 73-10 Ohms                   | Works on Fords prior to 1989 & most Chryslers |
| 240-33.5                     | Industry standard, works on many popular cars |
| 0-30 Ohms                    | Works on most GM cars prior to 1965           |
| 16-158 Ohms                  | Works on most Fords, 1989 & newer             |

Note: Vehicle manufacturers may use a different match than that shown above depending on vehicle model.



## Tech Support:

### MIXING DIFFERENT BRANDS OF SENDERS & GAUGES

Mixing different brand electric gauges and senders is not recommended although the seriousness depends on the type of gauge/sender combination - fuel level, pressure or temperature. Generally, each manufacturer designs a gauge and sender to work as a set, the set has an electrical match". The electrical match of the sender can be shown as a curve. The matching gauge is designed so that the needle responds with the correct reading based on this curve.

The 240-33.5 Ohm resistance is called the Stewart Warner match; the 10-180 Ohm resistance is usually called the VDO match; etc.

If a sender with the incorrect electrical match is used, the gauge will not display the correct data. The gauge may not function at all, the needle may fluctuate or even appear to be close to the correct reading at certain points in the curve but not at other points and may even work backwards.

Other manufacturers will specify that their gauges will work with Stewart Warner senders. We don't sanction the mixing and matching due to the possible damage to your vehicle if the curve between the sender and gauge do not truly match all along the curve. Please refer to the details below for which systems may be able to use mixed combinations.

### Fuel Level Systems:

Both the fuel level gauge and sender must have the same resistance to function correctly and both should be at the same ground potential.

Fuel level is probably the one gauge/sender combination that mixing of brands will generally work as long as the correct electrical match is used. So, if you already have a fuel sender in your vehicle, you can measure the senders resistance and usually find a compatible fuel level gauge.

### Pressure Systems:

Both gauge and sender must have the same resistance to be a perfect match so that the gauge displays the proper readings. If absolutely required, a different brand pressure gauge or sender with the same stated match could be used until the proper sender is obtained but do not rely on this set up for any critical system on your vehicle.

### Temperature Systems:

This is the most difficult system to match between manufacturers and Stewart Warner strongly recommends that you do not mix different brands in a temperature gauge/sender set-up.

Most temperature gauges are designed to work with one particular sender. Each sender has an electrical element with its own characteristics. It is very difficult to find another manufacturer whose gauge dial angles will match the senders resistance/temperature curve.

### ELECTRIC VS MECHANICAL

Stewart Warner provides many instruments in both an electric version and a mechanical version. People then wonder which one they should use, which is better. There are in fact no significant performance-related differences between electrical and mechanical gauges. Both types of gauges provide features and benefits which may be useful depending on your application.

One thing you may want to consider if replacing/upgrading your instruments would be what type the current instruments are and what would be required to switch from mechanical to electric or electric to mechanical.

The chart below will help determine which type of gauge would be more appropriate.

| <u>ELECTRIC GAUGES</u>   | <u>MECHANICAL GAUGES</u>   |
|--|--|
| Clean design—No tubing or bulky connectors and no danger of fluids entering the passenger compartment. | Can operate without any voltage source; not just limited to 12V (Lighting is the only part that requires 12V). |
| Easy installation in cramped or unusual areas, or if located farther away from the point of sensing.   | Convenient tubing allows for installation directly to the point of sensing.                                    |
| Most are 90° sweep some are 270° sweep.  | Full 270° sweep for better resolution (readability").  |
| Safe remote mounting of sender.  | Pressure tubing routed from cockpit to sensing port.   |
| Small temperature sender (e.g. 1/8" NPT).  | Large Temperature sensing bulb (e.g. 1/2" NPT).  |



114254

**Electric Pressure Gauge (Also called 90° sweep)**



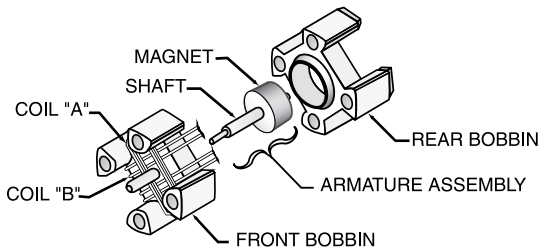
114512

**Mechanical Pressure Gauge (Also called 270° sweep)**

## Tech Support:

### HOW ELECTRIC GAUGES WORK

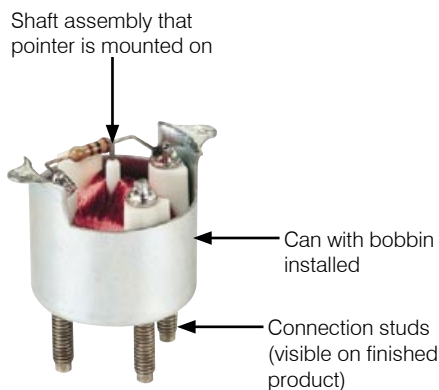
At the heart of every Stewart Warner Electrical Gauge is our high-performance, patented air-core movement—the gauge’s motor. Looking inside the motor reveals two coils (A” and B”) comprised of copper wire wrapped around the front bobbin, and a rear bobbin assembly that contains a magnetized armature assembly (magnet & shaft), surrounded by damping fluid which acts to minimize pointer flutter and ensure smooth response.



The bobbin assembly is packaged in a metal isolation can” that supports the gauge’s dial (and light pipe where appropriate),

and the can is mounted inside a housing (case). The armature assembly freely rotates within the coils, aligning with the varying magnetic fields produced by the amount of current flowing through the coils. (Current variance is triggered by signals provided by the sender.) The pointer—attached to the shaft on the armature assembly—once calibrated, will provide a directional indication regarding the amount of pressure, temperature, appropriate level of fuel, or voltage being measured.

Senders that drive Stewart Warner Electric Gauges are based on variable resistance technology. The three basic variable resistance senders are temperature, pressure and fuel level. Each sender possesses a different rate of resistance change, or MATCH”, for the specific gauge’s electrical design. The sender’s resistance change results in current changes within the sender-gauge circuit. These changes cause an increase or decrease in the gauge’s magnetic field. The variance in the magnetic field causes pointer movement.

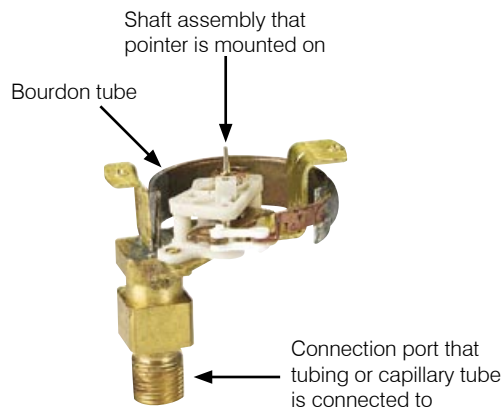
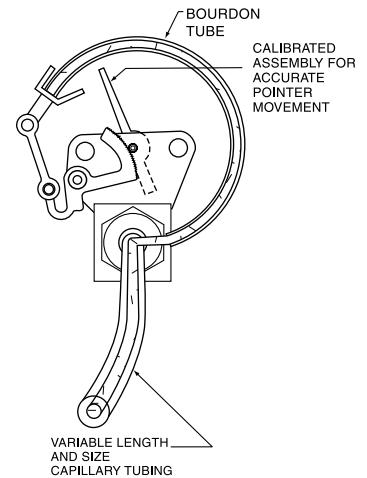


**Electric Movement**

### HOW MECHANICAL GAUGES WORK

Stewart Warner Mechanical Gauges include integral Bourdon” tubes which have one free-floating end that is linked to a gear and shaft assembly, with pressure pulsation and vibration dampening to reduce pointer fluctuations. The Bourdon tube can be fine-tuned by varying its strength and stiffness. It works by being deflected (moved) by the pressure of the liquid/gas that is being measured, and it then moves the gear and shaft assembly which, in turn, moves the pointer to produce an accurate reading on your dial.

Mechanical pressure gauges have a port on the back to make a direct connection, either through hose or tubing, with the fluid or gas being measured. Mechanical temperature gauges have a sealed capillary tube and bulb assembly, which is filled with temperature sensitive liquid. This liquid produces a proportional vapor pressure when it is exposed to temperature variation. The vapor pressure is the acting force on the Bourdon tube and is calibrated to provide accurate pointer movement in relation to the temperature.



**Mechanical Movement**



## Tech Support:

### MY POINTER DOESN'T GO TO ZERO. IS IT BROKEN

#### (RETURN TO ZERO FUNCTION)

Whether the pointer returns to zero depends on if your instrument is mechanical or electric. Note that some electric gauges do have a return to zero function.

#### Electric:

The pointer not returning to zero on electric gauges, tachometers and speedometers is NOT a malfunction! As soon as power is supplied to the instrument the pointer will move to the correct reading for that instrument.

The pointer not returning to zero is a normal property of the air-core movement inside the gauge. When the electric current is shut off, due to engine shut down, there is no longer a signal for the gauge to read and the pointer just finds a random place to "rest" on the dial.

#### Mechanical:

Pointers on mechanical gauges should always return to zero or move to the lowest reading on the dial after the engine has been shut off and settles.

Since Stewart Warner mechanical gauges have Bourdon tubes that are physically manipulated by the pressure or temperature each is monitoring, the pointer returning to zero could take time as the temperature or pressure dissipates.

### HOW TO PICK A DIAL RANGE

The dial range you choose should be based on your vehicles normal operating characteristics. During normal operation your gauge should be at or close to the center of this range.

#### Range too narrow

You do not want to use a gauge that has a maximum reading that is the same as or close to your normal operating range. This will not allow you to see if what you are monitoring goes above its intended range of operations.

#### Example:

If your vehicle is set to run at 15lbs boost you do not want to use a 15 psi boost gauge. It will not allow you to monitor the high range in case of overboost.

#### Range too broad

You also do not want to select a gauge that has too large of a range. In this case you may lose resolution (readability) for the range that you wish to monitor.

#### Example:

If your oil pressure should be at 30 psi, a 5 psi drop in pressure may be critical. If you were to use a 150 psi gauge, that 5 psi drop may go unnoticed. However, if you were to use a 100 psi gauge you would have greater resolution and would notice the drop in pressure.



## Tech Support:

### RFI

A tachometer counts how many times your ignition fires for each revolution of the crankshaft and. Sounds fairly simple and bullet-proof, right? NOT REALLY! Radio Frequency Interference (RFI), also referred to as "electrical noise", can force your tachometer to give you false readings. False readings will skew the accuracy of memory tachometer functions. Stewart Warner Performance Tachometers are protected from RFI related to racing, although electrical noise could reach such an excessive level that the tachometer may see it as legitimate ignition signal and react accordingly, thus causing an inaccurate readout. So the question is, "How can I prevent RFI?" Here are some "rules of thumb":

- 1) Be sure there are good electrical grounds throughout your car, and check to see that: a) your tachometer AND ignition system both have a good grounds, preferably at the battery ground post. (The battery acts as a huge capacitor, sucking up excessive amounts or noise.); b) the engine block is appropriately grounded to the battery.
- 2) Route all tachometer wires as far from ignition system wires as possible.
- 3) Use high-quality plug wires, as poor plug wires are a large source for RFI.
- 4) Make certain that the spark plug gap is properly set.
- 5) Check to make sure there is no mismatch of ignition system and coil—this can also cause excessive RFI.



### TACHOMETERS—HOW THEY WORK:

Until recently, tachometers were calibrated based on the number of cylinders in the engine. Now, there are all types of engine control modules (ECMs)(on-board computers) and distributorless ignitions, and the old standard rule—"half the number of cylinders equals the pulses per revolution (PPR)"—no longer applies. "Pulses per revolution" relates to how many times the ignition fires per crankshaft revolution. The tachometer outputs from the ECMs can range from 1-PPR to 4-PPR for a V-8 engine. So, the new standard is to refer to PPR instead of the number of cylinders. Stewart Warner Performance Tachometers work with most 2-, 3-, 4-, 5-, and 6-PPR, and our memory tachometers with shift-lights work with 1-PPR as well. This range of pulses per revolution will cover most 1-, 2-, 4-, 6-, 8-, 10-, and 12-cylinder engines.

Stewart Warner Performance Tachometers are designed to work with a wide variety of ignition types, including standard inductive [coil (-) connection] and any ignition system with a clean tachometer output signal. The input level can range from TTL 5V (outputs from newer engine control modules) and 300-400 volt pulses from coil (-) on most inductive ignition systems. Tachometers will operate on most traditional capacitive discharge (CD) ignitions when connected to the ignition primary circuit. However, for high-output CDs (such as MSD) only connect to the tach output terminal, never the coil primary. It's best to consult our tech support team if you're unsure, rather than risk damage to the tach or ignition system.

Our Stewart Warner Performance Team is prepared to help you with tachometer installations! Call us a call 1-866-SWP-RACE. Be prepared to provide information about your ignition system.



## Tech Support:

### VOLTMETER VS. AMMETER

A voltmeter measures electrical potential (pressure) in units called volts that is necessary for current measured in amps (a quantity) to flow through your electrical system. If there is NO pressure (volts), there can be NO current flow (amps). This is analogous to having no oil pressure and, therefore, no oil flow. You must have one to get the other!

Ammeters were popular when generators and alternators typically averaged 35-40 amps of output, and vehicle electrical systems were much less complex. Today, alternators commonly have output capacities of 100-110 amps with more complex wiring and higher accessory loads. This makes it more difficult to install an ammeter. Just as we measure oil pressure rather than oil flow, we prefer to measure volts rather than amps, so, the overwhelming choice for performance applications today is the voltmeter.

Contact our tech support team if you have additional questions about ammeters or voltmeters.

The bottom-line...an ammeter is NOT an effective solution for racing applications!

Restorers often prefer to use ammeters if that was the type of gauge originally in the vehicle.

### CONTACT TECH SUPPORT

If you have further questions on Stewart Warner instruments, please contact our tech support at the following:  
Competition Tachs & Gauges and Impact™: 866-797-7223  
or e-mail [techsupp@SW-Performance.com](mailto:techsupp@SW-Performance.com)

Other Street Performance Products: 800-676-1837  
or e-mail [techsupport@StewartWarner.com](mailto:techsupport@StewartWarner.com)



## Tech Support:

### Instrument Specific Introduction

The next few pages go into detail on each major type of instrument.

We have provided this information to help new and long-time customers. Long-time customers may find a new use for an instrument they are already familiar with.

Customers who may be new to gauges can determine which instruments may be useful in their application. We also hope this information will help our customers get the best use out of the instruments that they install.

Information provided includes most of the following:

**General:** Specifies the general uses of the instrument and why it is used

**Can Be Used On:** Gives a general listing of applications that can use the instrument. Note that individuals may find other uses for instruments, the applications listed may not be all-inclusive.

**Good For:** Indicates ways that the instrument can provide you with valuable information.

**What You Need To Know:** Provides you with questions you may need to answer before purchasing an instrument to ensure you will have the correct product for your needs.

**What You See:** Indicates what different readings on the instrument may mean to your vehicle's operation.

**When You Should Be Concerned:** Provides information on determining when the instrument is telling you you may have a problem with your vehicle. Please note that this listing is general and may not include every possible scenario

**How It Works:** Gives a brief description of how the instrument is connected and/or reads the parameters it is designed to watch.

If you have additional input for this section, please let us know by calling our Tech Support Line at 866-797-7223 or e-mailing [techsupport@sw-performance.com](mailto:techsupport@sw-performance.com)

## Tech Support: Instrument Specifics

### INSTRUMENT TYPE DETAILS

|   |     |
|---|-----|
| Air Pressure .....  | 120 |
| Air/Fuel Ratio .....  | 107 |
| Boost & Blower Pressure.....                                    | 110 |
| Exhaust Temperature/Pyrometer .....                             | 108 |
| Fuel Level.....   | 119 |
| Fuel Pressure .....   | 112 |
| Nitrous Pressure .....  | 109 |
| Oil & Transmission Oil Temperature.....                         | 114 |
| Oil Pressure.....   | 113 |
| Pressure (No dial designation) .....                            | 116 |
| Speedometers .....  | 106 |
| Tachometers: General .....                                      | 100 |
| Tachometers: Memory.....  | 101 |
| Tachometers: Standard .....                                     | 101 |
| Tachometers: Circle Track.....                                  | 102 |
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| Tachometers: Ultra-Shift Light™ w/4-Shift Technology .....      | 104 |
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| Vac/Boost Pressure.....   | 111 |
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| Water (Coolant) Pressure .....                                  | 121 |
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## Tachometers

### GENERAL:

Indicates engine revolutions per minute (RPM). Stewart Warner tachometers range from basic, displaying only RPM, to units with peak RPM recall functions and shift indicator light options in either analog or digital platforms as well as other functions.

Engine RPM is the most critical parameter to monitor. Accurate engine speed is required for optimum track performance, consistency and engine durability.

For drag racing it's all about consistency and peak performance.

### CAN BE USED ON:

Most applications

Applications where modifications have exceeded factory tachometer limits for range, accuracy, and response time

Automatic transmissions modified for drag racing

### GOOD FOR:

All forms of competition (racing, pulling, rock crawling, etc)

On and off road vehicles

Any application where rotational speed indication is desired

Vehicles without a factory tachometer

Custom dash installations

### WHAT YOU NEED TO KNOW:

You will need to know the expected RPM range of your engine and the engine type (diesel or spark ignition) and the type of tachometer desired for your application.

Stewart Warner offers several tachometer configurations. The Competition Tachs & Gauges line does not require plug-in pills or modules and in most cases a tach adapter is not required:

- 1) Standard - RPM display only, no memory or shift indication. Available in electric and some mechanical versions. The Competition Tachs & Gauges line covers 2 to 6 PPR.
- 2) Memory - peak recall with shift indication light or the capability to attach shift indication light (1 to 6 PPR)
- 3) Circle Track - peak recall, no microprocessor (complies with NASCAR(r)), no shift indication light (2, 3, 4 & 6 PPR)
- 4) Ultra-Shift Lights™ - digital RPM display with programmable shift indicator
  - a) Standard Ultra-Shift Light™ - tube style, peak recall (1 to 6 PPR)
  - b) G.U.S.™ - Gauge Ultra-Shift Light™ - 2-1/16" gauge, peak recall (.5 to 6 PPR)
  - c) Ultra-Shift Light™ w/4-Shift Technology - staging mode, 4 programmable shift points,
    - 4 peak recalls, staging mode, driver reaction times (.5 to 6 PPR)
  - d) Ultra-Shift Light™ w/Programmable Controller - peak recall, programmable window switch, programmable shift indicator (.5 to 6 PPR)

### WHAT YOU SEE:

The tachometer will indicate the engines current rotational speed (RPM). Tachometers with shift indicators contain bright LED's that illuminate, when the programmed RPM shift point is reached, to alert the driver to shift.

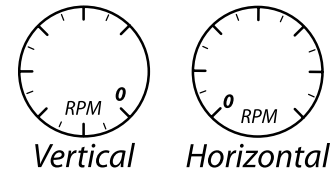
### WHEN YOU SHOULD BE CONCERNED:

When the tachometer is indicating a RPM higher than the engines rated capability. Severe engine damage can occur if the engine is operated above its designed parameters.

### HOW IT WORKS:

Stewart Warner tachometers are connected to the engine speed signal, which provides a frequency that is proportional to engine speed. The tachometer uses this frequency to indicate engine RPM. The location of this signal varies from vehicle to vehicle. If you have trouble identifying your signal source, contact technical support for your vehicle's specific connection information. Mechanical tachometers are cable driven.

### Dial layout



| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |
| Deluxe™   | 24   |
| Wings™  | 32   |
| Power Series™   | 36   |
| Heavy Duty™   | 42   |



## Standard Tachometers

### Competition Tachs & Gauges

- work with most 2 to 6 PPR (pulses per revolution) vehicles (4- to 12-cylinder).
- no plug-in pills or modules are required.
- 5" tachometers mount in either 3-3/8" or 4-5/8" dash opening or use the supplied mounting strap & stand.
- robust, balanced, fast responding 3-D pointer that also reflects light.
- in most cases a tach adapter is not required.

### Other Stewart Warner tachometers

- electric or mechanical available
- depending on model work with either 4-, 6- and 8-cylinder or 4-, 8- and 12-cylinder
- electric tachs programmed via dip-switches on rear

### GOOD FOR:

- Vehicles without a factory tachometer
- Vehicles where only RPM visibility is desired without shift indicator lights or peak recall
- Custom dash installations

| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |
| Deluxe™   | 24   |
| Wings™  | 32   |
| Power Series™   | 36   |
| Heavy Duty™   | 42   |



## Memory Tachometers

Stewart Warner Competition Tachs & Gauges memory tachometers work with most 1 to 6 PPR (pulses per revolution) vehicles (2- to 12-cylinder) and have a peak RPM recall function.

No plug-in pills or modules required. Programming of desired shift indication point is done via the low profile control module recessed below bezel on 5" tachometers and remote mountable for 3-3/8" tachometers.

Vertical scale 5" tachometers include external LED shift light which connects directly to tachometer and can be mounted using the mounting strap or remote mounted as desired.

Horizontal scale 5" tachometers are ready to attach an optional LED shift light if desired.

3-3/8" tachometers have a LED shift light on the dial face.

5" tachometers mount in either 3-3/8" or 4-5/8" dash opening or use the supplied mounting strap & stand.

Robust, balanced, fast responding 3-D pointer that also reflects light.

SWP tachometers feature a large dial viewing area and better viewing angles.

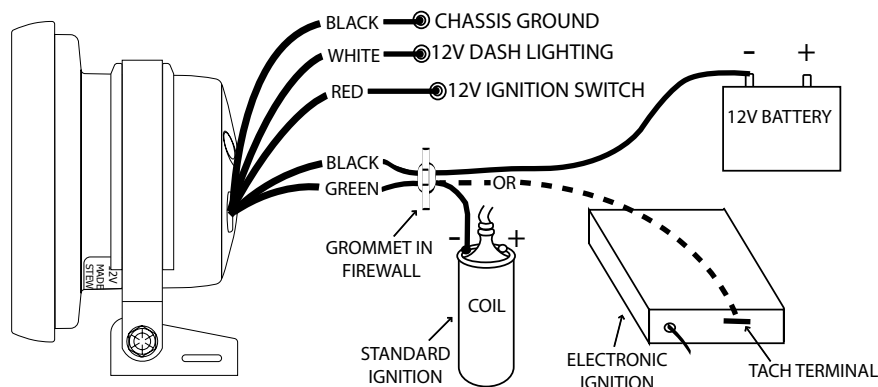
Black and silver dials are backlit and perimeter lit, white dials are perimeter lit only.

In most cases a tach adapter is not required.

### GOOD FOR:

- Vehicles without a factory tachometer
- Racing applications where shift indication is required and peak RPM recall desired
- Custom dash installations

| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |



# CIRCLE TRACK TACHOMETERS

## Circle Track Tachometers

Stewart Warners' Competition Tachs & Gauges line 10,000 RPM tachometer is NASCAR® compliant (no microprocessor).

Peak recall and clear via two buttons on control module.

Works with 2, 3, 4, & 6 PPR (pulses per revolution) vehicles.

Built rugged to handle high vibration applications.

Low profile control module recessed below bezel for added protection.

Easy set-up via dip switches on rear of unit.

Mounts in either a 3-3/8" or 4-5/8" dash opening.

Robust, balanced, fast-responding 3-D pointer that also reflects light.

Large dial viewing area and better viewing angles.

Black and silver dials are backlit and perimeter lit, white dials are perimeter lit only.

**You can find this gauge in the following product lines:**

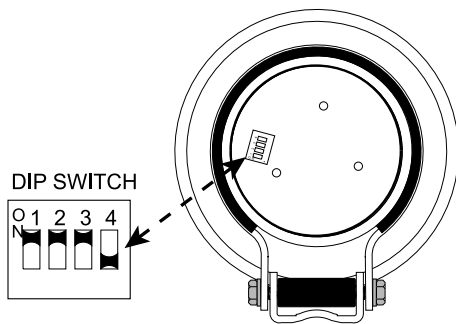
| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |

### Check out our other circle track gauges:

Mechanical oil temperature gauges with 8 foot capillary tube

Mechanical oil temperature gauge with 2 foot capillary tube

Mechanical water temperature gauges with 8 foot capillary tube

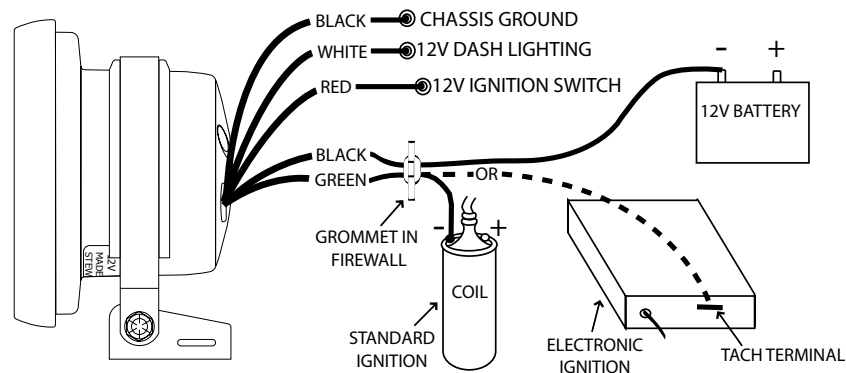


| SWITCH SETTINGS      |   |   |   |   |
|----------------------|---|---|---|---|
|                      | 1 | 2 | 3 | 4 |
| 4 CYLINDERS / 2 PPR  | X | - | - | X |
| 6 CYLINDERS / 3 PPR  | X | X | - | - |
| 8 CYLINDERS / 4 PPR  | - | X | - | X |
| 12 CYLINDERS / 6 PPR | X | X | X | - |

"X" = ON, "-" = OFF



Dash of Frank Kimmel - 7-time Arca Re/Max Champion





## Ultra-Shift Light™

Stewart Warners' combination digital tachometer with shift light and peak recall. Micro-processor driven so it requires no plug-in modules or pills. Simple three-wire hook-up (power, ground, tach signal). Program via two buttons on rear of tube style model and on front of G.U.S.™ model. Set shift alert in 10 RPM increments. Tachometer's RPM display can be turned off. In most cases a tach adapter is not required.

### ORIGINAL TUBE STYLE:

Up to 13,000 RPM

1 to 6 PPR (pulses per revolution); works on most 2- through 12-cylinder vehicles

3 brightness levels for LEDs

5" long by 1-5/8" diameter tube

### G.U.S.™ (Gauge Ultra-Shift™ Light):

2-1/16" size (standard gauge size)

Up to 18,000 RPM

.5 to 6 PPR (pulses per revolution; works on most 1- through 12-cylinder vehicles)

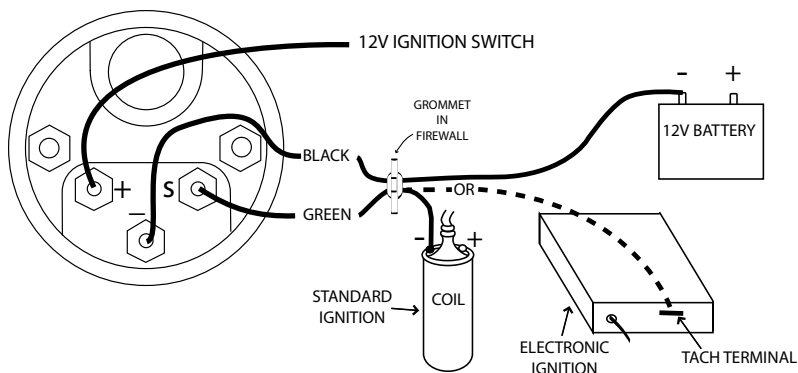
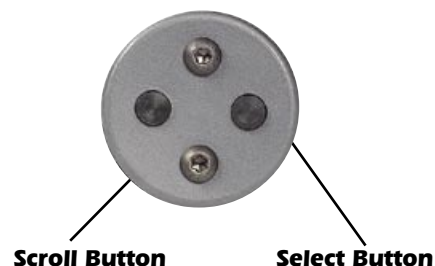
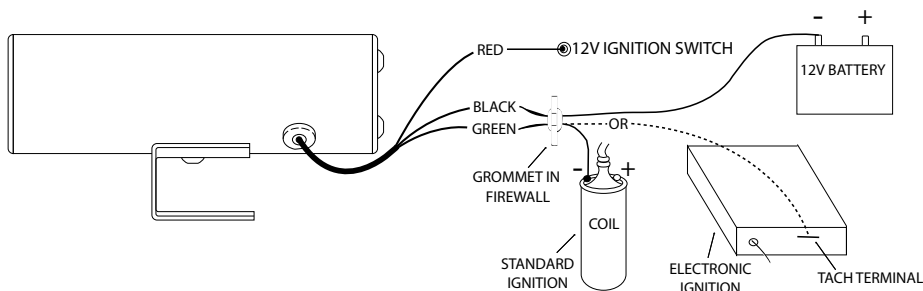
4 brightness levels for LEDs

Available in three LED colors and choice of black or silver bezel finish, our replacement bezels can also be used (bezels available in paintable version for custom work)



**You can find this gauge in the following product lines:**

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |



# ULTRA-SHIFT LIGHT™ w/4-SHIFT

## Ultra-Shift Light™ w/4-Shift Technology

Program shift points for 4 gears. Recall peak RPM for each gear and trap RPM plus driver reaction time for each shift. Includes staging mode. Works with most 1- to 12-cylinder vehicles. Up to 18,000 RPM (depending on vehicle), settable in 10 RPM increments. Adjustable LED lighting brightness. All programming done via two buttons on rear of unit—no plug-in pills or modules required. In most cases, a tach adapter is not required.



### SHIFT LIGHT OPERATION DURING A RACE:

STAGING (Launch RPM indication):

- 1) The driver stages the car and depresses the staging button. This clears the memory from previous runs. The LEDs indicate if the RPM is within the preprogrammed range as follows:
  - a) Off if the engine is running within programmed launch RPM range.
  - b) Flash rapidly if the engine is running higher than programmed launch RPM range.
  - c) On solid if the engine is running lower than programmed launch RPM range.

| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |

### RACE STARTS:

- 1) Driver releases the staging button at launch. Staging Mode is exited and Race Mode begins.
- 2) Time delay starts. Prevents wheel spin or other drastic RPM changes from being recorded as a false gear shift. Delay can be set between .1 and 1 second in .1 second increments.
- 3) The shift light LEDs come on at the programmed RPM levels for each of 4 gears (programmable for 1, 2, 3 & 4 shifts) during a race, up to four shifts can be set.
- 4) The driver makes the run down the track shifting as indicated.
  - a) The Ultra-Shift Light™ records the peak RPM reached in each gear.
  - b) The Ultra-Shift Light™ records the drivers reaction time for each gear shift - the time from when the shift light lights up until the driver shifts to the next gear.

**NOTE:** If the driver short-shifts (before light comes on), the Ultra-Shift Light™ will recognize the shift and increment to the next gear.

### RACE ENDS:

- 1) The trap RPM is recorded (peak RPM after last shift).

After the trap RPM is recorded or the RPM drops below 2000 RPM, the Ultra-Shift Light™ returns to standard mode (non-recording). In standard mode, the shift light will activate at the 1st shift RPM setting.

### AFTER THE RACE:

- 1) Peak RPM for each gear, as well as the driver reaction time for each shift, can be displayed.

Press the select button to recall the 1st gear peak RPM followed by the driver reaction time for the 1st to 2nd gear shift.

Press the select button again to display the readings for the next gear and reaction time.

Each additional peak RPM & reaction time is displayed by pressing the select button.

After the last shift information is displayed, the next press of the select button displays the trap RPM - the peak RPM after the last shift.

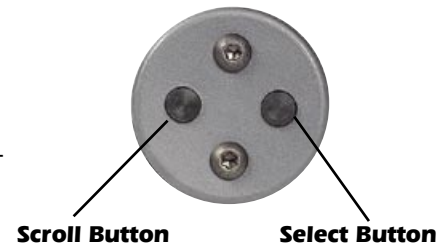
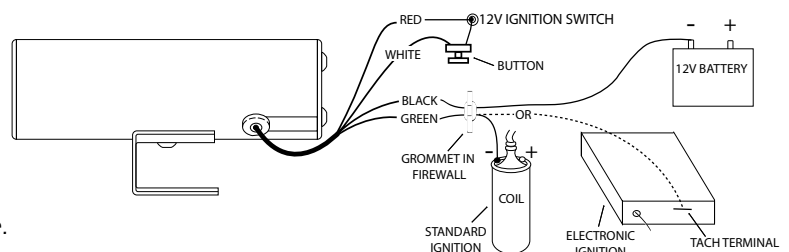
The data can be cleared by holding the select button for at least 3 seconds.

### WIRING IT UP & PROGRAMMING:

- 1) 4-wire hook-up (no pills or plug-in modules required).

Black wire to ground; red wire to power (example: ignition wire); green wire to tach signal; white wire to momentary contact push-button (second wire on button connects to 12V power). You can also tap into the trans. brake or other similar circuit.

- 2) Set PPR (pulses per revolution) depending on your engine.
- 3) Program the number of shifts, each gears' shift RPM, staging RPM range, and delay for wheel spin.



## Ultra-Shift Light™ w/Programmable Controller

Shift light and digital tachometer with switched output to control RPM dependent devices. Works with most 1- to 12-cylinder vehicles. Up to 18,000 RPM (depending on vehicle) and is settable in 10 RPM increments. Adjustable LED lighting. All programming done via two buttons on rear of unit—no plug-in pills or modules required. In most cases a tach adapter is not required.

### Controller Functions:

Besides operating as a shift light & digital tachometer (see Shift Light Operation) the Ultra-Shift Light™ with Window Switch Controller has a switched output that may be used to control devices where engine RPM is a factor in turning a device on or off, such as Nitrous Oxide systems, CO2 and water sprayers for intercoolers, or even automatic shifters.

### Nitrous Oxide Control:

The switched output is an ideal way to control nitrous oxide activation/deactivation. Set the programmable LOW value to the desired engine RPM where the device activates and set the HI value to the desired RPM where the device is to deactivate (usually just before the engine rev limiter triggers to prevent catastrophic engine damage).

### Intercooler Sprayer Control:

The RPM switched output, when used in conjunction with a pressure switch, is very efficient at controlling an intercooler CO2 or water sprayer system during high boost and high engine RPM when the efficiency of the intercooler falls off. This set-up works well to conserve the CO2 or water supply for when it's needed most.

A pressure switch is used to activate the system only when the boost pressure is high. Pressure switches are available (see our accessories section).

The RPM switch is used to control the RPM at which the system is activated so the system does not activate at low RPM when the intercooler can easily cool the lower airflow.

### Shift Light Operation:

Ultra-Shift Light™ units are combination shift lights and digital tachometers in one compact and easy-to-program package. No plug-in pills or modules are required. All settings are programmed using the two buttons on the rear of the unit. In addition, the LED brightness and peak RPM readings are also accessed via the two buttons.

Once the Ultra-Shift Light™ is installed (see Wiring It Up below) the operating parameters must be set:

- Shift light set point
- Digital tach display (on or off)
- PPR (pulses per revolution) according to engine
- RPM window switch activation/deactivation range:
  - LOW activation RPM
  - HIGH deactivation RPM

**NOTE:** The RPM activated device will only function when the vehicle RPMs are within the range set between the LOW & HIGH setting (the window). Any time the RPMs are outside the range the device is deactivated.

### Wiring It Up:

4-wire hook-up (no pills or plug-in modules required).

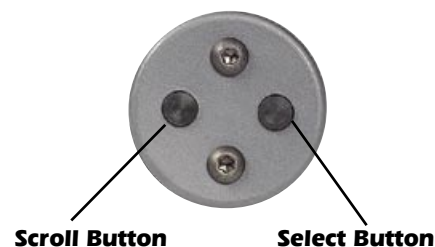
Black wire to ground; red wire to power (i.e. ignition wire); green wire to tach signal; white wire to RPM activated device. (See installation instructions or web site for more details on set-ups.)

**NOTE:** 30A/12VDC relay is supplied for use with high-current devices.

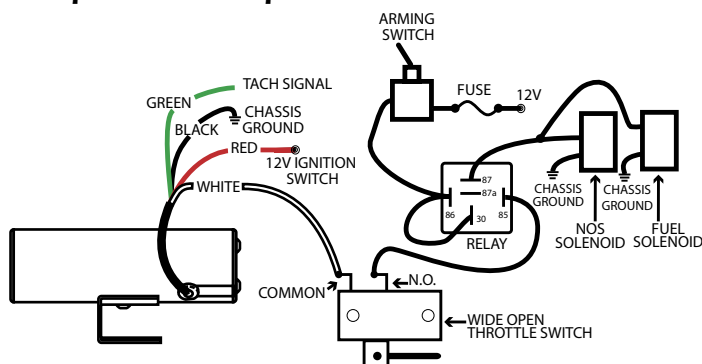


You can find this gauge in the following product lines:

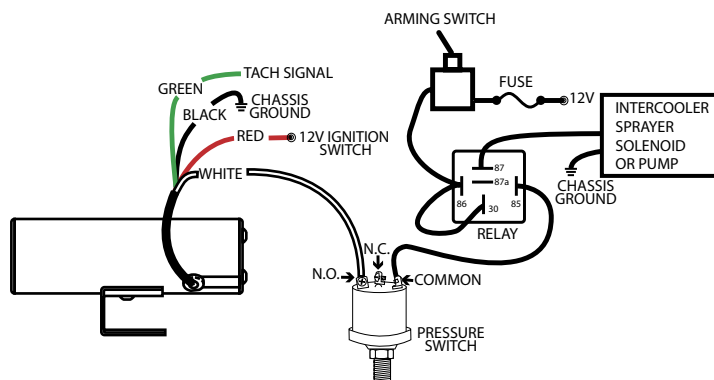
| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |



### Example nitrous set-up



### Example intercooler sprayer set-up



## Speedometers

### GENERAL:

Speedometers indicate vehicle speed along with providing total mileage and often a trip mileage reading.

**NOTE:** Check your local laws/regulations to determine how to properly document mileage when a speedometer is replaced.

### CAN BE USED ON:

Most applications where vehicle speed is desired. Note: in the USA, speedometers are required for all motor vehicles used on public roadways, consult local laws for any exceptions.

### GOOD FOR:

Accurate speed indication after modifications have been made such as wheel size or gearing.

### WHAT YOU NEED TO KNOW:

Does your vehicle already have an electric sender or are you replacing a mechanical speedometer. If your system does not already have an electric sender, a sender can be installed where the mechanical cable was previously connected.

Stewart Warner does have mechanical speedometers available that take their signal from the mechanical cable connected to the transmission.

### WHAT YOU SEE:

Speed indication and odometer reading.

The Competition Tachs & Gauges line speedometers also provide two trip meters. The trip meters are accessed using the included calibration/reset switch which can be mounted where desired.

### HOW IT WORKS:

#### ELECTRIC

The Stewart Warner electric speedometer is connected to a speed sensor via wires. The electric speedometers can be calibrated & recalibrated as needed after gearing or tire size changes by driving a specified distance and

1) Competition Tachs & Gauges - use the reset button to set calibration

2) On other Stewart Warner electric speedometers - set the dip switches on

the rear of the unit per the installation instructions

#### MECHANICAL

Mechanical speedometers are connected via cable to the transmission speed take-off. If you require a new cable contact us to find a distributor near you that makes these cables.

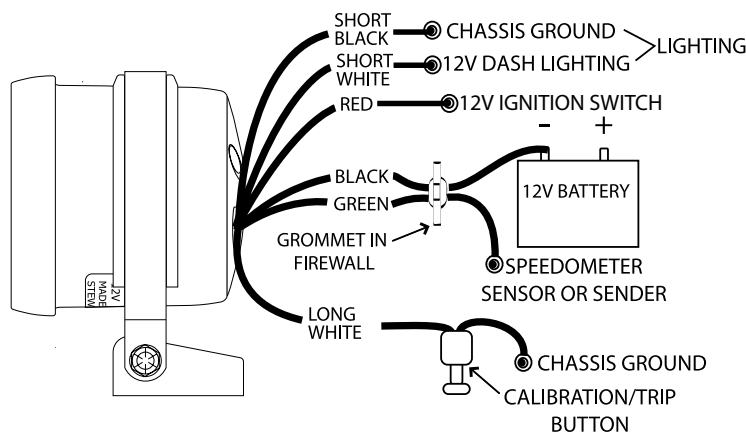
**NOTE:** If your vehicle currently has a mechanical speedometer, you can convert to an electric speedometer by connecting a one of Stewart Warners speed sensors to the speedometer connection on the transmission.

You have a mechanical speedometer if there is a cable connected from the speed take-off on the transmission to the speedometer.

You can easily convert from a mechanical to electric speedometer by removing the cable and connecting an electric speed sender to the same connection where you previously had the cable.

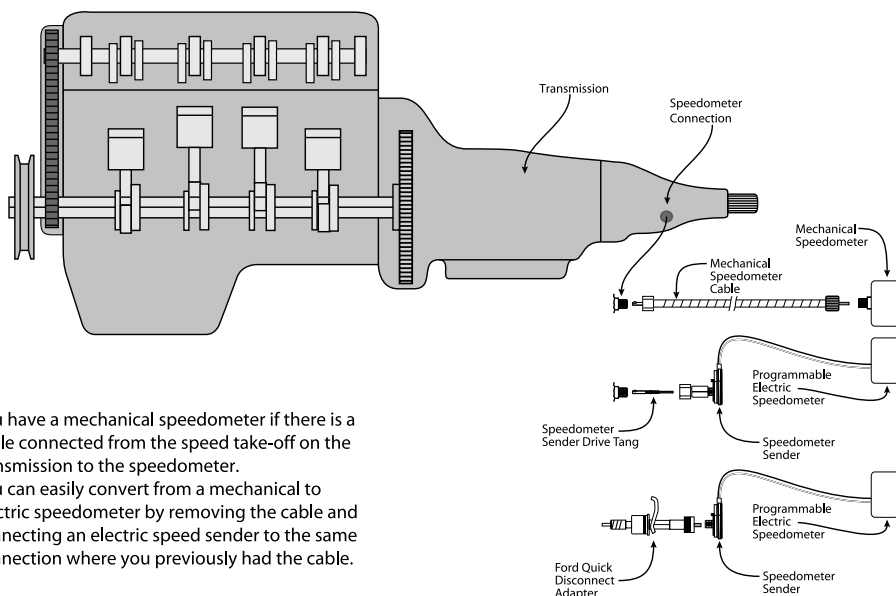
With Fords you may need to use the Ford Quick Disconnect Adapter as the Ford connection is different than on other makes.

| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |
| Deluxe™   | 24   |
| Wings™  | 32   |
| Power Series™   | 36   |
| Heavy Duty™   | 42   |



### SPEEDOMETER CONNECTION

#### And Converting from Mechanical to Electric Speedometer



## Air/Fuel Ratio

### GENERAL:

Monitors the air/fuel ratio (LEAN/STOICH/RICH) of gasoline engines when wired to an O2 sensor (either the factory sensor on a fuel injected vehicle, or an add-on O2 sensor).

The AFR gauge can indicate if your fuel demand is higher than the fuel system capability; or if additional tuning is required; or there is an intake vacuum leak; or if the O2, as well as other sensors fail. This information is extremely important for users with performance add-ons such as exhaust & air intake systems, air/fuel controllers, cams, turbochargers, superchargers, nitrous, fuel injector upgrades, etc.

### CAN BE USED ON:

Fuel injected vehicles  
Carbureted vehicles

### GOOD FOR:

Basic tuning of air/fuel ratio on carbureted vehicles  
Indicator of a possible vacuum leak (Lean Reading)  
Indicator of a possible drop in fuel pressure (Lean Reading)  
Monitoring of PCM (Powertrain Control Module) on fuel injected vehicles  
Indicator that more tuning is required (especially after modifications are made)  
Indicator of fuel demand being higher than the fuel system capability

### WHAT YOU NEED TO KNOW:

Before purchasing an air/fuel ratio gauge you will need to determine if your vehicle has an O2 sensor (0-1 Volt) installed. Fuel injected vehicles will normally have a factory installed O2 sensor. Carbureted vehicles may not have an O2 sensor. If you do not have an O2 sensor, one can be installed.

### WHAT YOU SEE:

LED lights showing LEAN (less fuel vs. air), STOICHIOMETRIC (an equal air/fuel mixture), RICH (more fuel vs. air). The indicated values may change rapidly or not much at all, depending on the type of driving or induction system (fuel injected or carbureted).

### WHEN YOU SHOULD BE CONCERNED:

If the LEDs are tending to spend most of their time on the LEAN side, there is a chance that your engine may incur damage. There is too much air/not enough fuel in the air/fuel mixture. During wide-open-throttle operation, the reading should never be in the LEAN range.

If the LEDs are tending to spend most of their time on the RICH side, unless you are running at wide-open-throttle, you may not be burning your fuel efficiently thus not obtaining full power and expelling more pollutants in your exhaust.

### HOW IT WORKS:

The Air/Fuel Ratio Gauge is basically a voltmeter that displays the voltage output of an oxygen sensor which measures the available oxygen in the exhaust. More oxygen in the exhaust indicates a LEAN air/fuel mixture while less oxygen indicates a RICH mixture.

From the left side of the gauge (LEAN), the first LED comes on at .05V, the second at .10V and so on, in increments of .05V. The color coded LEDs on Competition Tachs & Gauges Air/Fuel Ratio Gauges are as follows: 4 red LEDs -LEAN (left side of band); 10 amber LEDs indicate STOICH; 6 green LEDs to indicate RICH (right side of band).

You can find this gauge in the following product lines:

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |



## Exhaust Temperature/Pyrometer

### GENERAL:

Exhaust temperature gauges, also known as pyrometers, are designed to measure the temperature of the exhaust gases from a gasoline or diesel engine. The gauge is connected to a probe inserted into the exhaust system. Different probes are available for different applications - see the Tech Notes section "Which probe for exhaust temperature gauge" to determine which probe is best for your use.

### CAN BE USED ON:

Any vehicle where there is a desire to monitor the exhaust temperature

### GOOD FOR:

Indication of dangerous overheat conditions

Can be used for tuning/monitoring the air/fuel mixture

While towing, early indication of overheating is required, especially when towing a heavy load uphill

### WHAT YOU NEED TO KNOW:

Before selecting an exhaust temperature gauge you will need to know the expected temperature of your exhaust - normally this can be obtained from your vehicle manufacturer or engine builder

### WHAT YOU SEE:

The exhaust temperature generally rises/falls with the load placed on the engine. Under high loads or acceleration, the exhaust temperature will rise and then, as the load is removed the exhaust temperature will decrease.

### WHEN YOU SHOULD BE CONCERNED:

If the exhaust temperature is higher than expected limits, engine damage may occur.

### HOW IT WORKS:

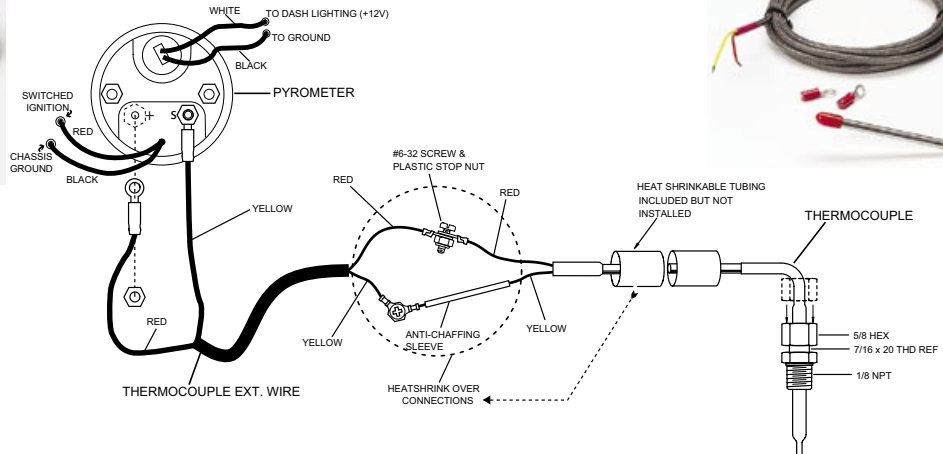
The Stewart Warner exhaust temperature gauge is connected via a special thermocouple extension wire to a Type-K thermocouple probe which is installed in the exhaust system.

**CAUTION:** Only use the supplied thermocouple extension wire to connect the probe to the gauge. Do not alter the length of the thermocouple extension wire. Using any other wire or altering the length of the extension wire can cause severely inaccurate temperature readings.

**NOTE:** We highly suggest you read the Tech Notes section "Which probe for exhaust temperature gauge" for detailed information on selection, use and life span of probes.

**You can find this gauge in the following product lines:**

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |
| Impact™                    | 30   |
| Deluxe™                    | 24   |
| Wings™                     | 32   |
| Heavy Duty™                | 42   |



## Nitrous Pressure

### GENERAL:

Monitors nitrous bottle pressure and is a must for nitrous oxide system installations.

Nitrous oxide systems are tuned for peak performance at a particular pressure. If the pressure is too low or too high, the air fuel mixture will not be correct and cause poor/inconsistent performance. Generally, the nitrous bottle is heated with a special heater blanket wrap, causing the pressure to rise. If the pressure rises too high, there is also potential for a bottle failure.

### CAN BE USED ON:

Any nitrous oxide system.

### GOOD FOR:

Monitoring nitrous oxide pressure for optimum performance and safety.

### WHAT YOU NEED TO KNOW:

You will need to be aware of the optimum nitrous pressure for your system.

### WHAT YOU SEE:

The needle will indicate the current nitrous oxide bottle pressure when the valve is opened. The pressure will rise as the special heated blanket wrap heats the bottle. The pressure will drop as the nitrous oxide is consumed and can be used as an indicator for when the bottle requires a re-fill. With experience, the bottle pressure can guide to help set a dial-in time for bracket drag racing competition.

### WHEN YOU SHOULD BE CONCERNED:

If the nitrous pressure drops below the desired limits, refill the bottle. If the nitrous pressure rises above the safe limits, disconnect the bottle heater wrap.

### HOW IT WORKS:

Stewart Warner mechanical nitrous pressure gauges are connected directly to the supply line from the bottle to the system via braided stainless steel tubing and fittings that are appropriate for the high-pressure system.

You can find this gauge in the following product lines:

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |



## Boost & Blower Pressure

### GENERAL:

Boost gauges are mainly used on diesel vehicles with a turbocharger or supercharger. They can also be used on turbo or super charged gasoline vehicles where you are not concerned about measuring the vacuum level. Blower gauges monitor boost for very high boost superchargers.

### CAN BE USED ON:

Diesel vehicles with a turbocharger or supercharger.  
Turbocharged vehicles, gasoline powered with no need for vacuum monitoring.  
Supercharged vehicles, gasoline powered with no need for vacuum monitoring.  
Top fuel drag cars.

### GOOD FOR:

Monitoring lack of boost - indicating air leaks, blow off valve malfunction, waste gate adjustment required, etc.  
Monitoring too much boost (can cause costly total engine failure) indicating blow off valve malfunction, waste gate adjustment required, etc.

### WHAT YOU NEED TO KNOW:

Before selecting a boost gauge you will need to know the maximum boost output of your turbocharger or supercharger. When selecting a boost gauge you will want a dial range where your maximum boost level falls in the mid-range of full dial range.

### WHAT YOU SEE:

During normal driving, the gauge will generally rest at zero when there is no boost. As you accelerate, the gauge will indicate the boost pressure as it increases.

### WHEN YOU SHOULD BE CONCERNED:

Boost levels above your systems recommended maximums can cause catastrophic engine failure caused by excessive cylinder pressure and detonation.

### HOW IT WORKS:

The Stewart Warner mechanical boost & blower gauges are connected directly to the intake manifold via tubing and fittings supplied with the gauge. This allows accurate measurement of the boost level at the source.

### WHAT BOOST IS:

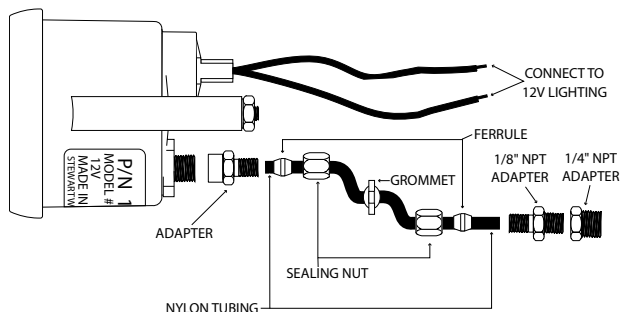
Boost is pressurized air pumped into the engine from a turbocharger or supercharger.

You can find this gauge in the following product lines:

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |
| Impact™                    | 30   |
| Deluxe™                    | 24   |
| Heavy Duty™                | 42   |



### Mechanical Hook-Up





## Vac/Boost Pressure

### GENERAL:

Used on non-diesel, turbocharged or supercharged vehicles. Monitors the boost level and is used for tuning waste gates or for pulley sizing (on supercharged). Also used to monitor the manifold boost level. The vacuum portion of the gauge measures manifold vacuum.

### CAN BE USED ON:

Turbocharged vehicles  
Supercharged vehicles

Note: Diesels would use a boost only gauge as they do not run with a manifold vacuum.

### GOOD FOR:

Monitoring lack of boost - indicating air leaks, blow off valve malfunction, waste gate adjustment required, etc.  
Monitoring too much boost (can cause costly total engine failure) indicating blow off valve malfunction, waste gate adjustment required, etc.

### WHAT YOU NEED TO KNOW:

Before selecting a vac/boost gauge you will need to know the maximum boost out put of your turbocharger or supercharger. When selecting a vac/boost gauge you will want a dial range where your maximum boost level falls in the mid-range of full dial range.

### WHAT YOU SEE:

During normal driving, the gauge will indicate manifold vacuum. As you accelerate, the gauge will indicate the increase in manifold pressure (boost).

### WHEN YOU SHOULD BE CONCERNED:

Boost levels above your systems recommended maximums can cause catastrophic engine failure caused by excessive cylinder pressure and detonation.

See "Vacuum Gauge" section for information on using the vacuum portion of the gauge for diagnostics such as leaks, worn parts, etc.

### HOW IT WORKS:

The Stewart Warner mechanical vac/boost gauges are connected directly to the intake manifold via tubing and fittings supplied with the gauge. This allows accurate measurement of the boost and vacuum levels.

### WHAT BOOST IS:

Boost is pressurized air pumped into the engine from a turbocharger or supercharger.

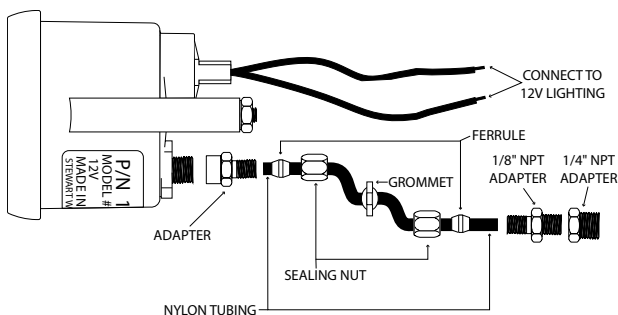
### WHAT VACUUM IS:

Vacuum is created by the engine drawing in air when the throttle is only partially open. Generally, vacuum is highest at idle. The more you are running in vacuum the better the fuel economy is.

| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |
| Impact™   | 30   |
| Deluxe™   | 24   |
| Wings™  | 32   |



### Mechanical Hook-Up



## Fuel Pressure

### GENERAL:

Fuel pressure gauges indicate the pressure in the fuel system supply. Proper pressure is critical for proper air/fuel mixtures in both carbureted and fuel injected applications.

Loss of fuel pressure can cause an extremely lean air/fuel mixture and costly engine damage.

### CAN BE USED ON:

Most applications with a fuel supply system.

### GOOD FOR:

Indicating a loss of fuel system pressure or system malfunction.

Indicating when a fuel system upgrade is required on systems where modifications have been made.

Tuning adjustable fuel pressure regulators.

Monitoring fuel system pressure during nitrous oxide activation, as the additional fuel system demand can be substantial.

### WHAT YOU NEED TO KNOW:

You will need to be aware of the desired fuel pressure range. Generally, carbureted applications operate around 7 psi and require a 15 psi gauge. Most modern fuel injected systems operate over 40 psi. You should check with your engine builder for the operating fuel pressure range of your system.

If using nitrous oxide you will need to ensure you have accounted for the additional fuel required during nitrous activation.

**NOTE:** If modifications have been made to your engine you need to verify that your fuel pump is capable of producing the required pressure and volume required to maintain the proper air/fuel mixtures.

### WHAT YOU SEE:

The needle will indicate the current fuel pressure on the application being monitored. This reading should remain fairly steady and may vary with engine RPM depending on the particular application. You will need to know what to expect from your system.

### WHEN YOU SHOULD BE CONCERNED:

If the fuel pressure drops below the desired limits, you should, as quickly as possible, determine and fix whatever has caused the loss of pressure before engine damage occurs.

### HOW IT WORKS:

#### MECHANICAL

Stewart Warner mechanical fuel pressure gauges are connected directly to a port in the system being monitored. Braided stainless steel tubing must be used for fuel system connection.

**CAUTION:** Mechanical fuel pressure gauges must never be mounted inside the passenger compartment of any vehicle. Stewart Warner provides mounting cups for use outside the vehicle.

#### ELECTRIC

Stewart Warner electric fuel pressure gauges are connected, via wires to a pressure sender which is installed in a port in the system being monitored, providing the pressure information to the gauge.

**NOTE:** In tight areas, stainless steel braided tubing can be used to remote mount the electric sender, providing both an electrical ground and pressure to the sender.

**CAUTION:** Electric gauges that require senders must be "matched" with the correct electrical match. If a sender that does not have the same electrical match is used the gauge will not provide the proper readings and the needle may act erratically.

**You can find this gauge in the following product lines:**

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |
| Impact™                    | 30   |
| Deluxe™                    | 24   |
| Heavy Duty™                | 42   |



## Oil Pressure

### GENERAL

Monitors engine oil pressure. A must for vehicles that don't come with an OEM oil pressure gauge.

Oil pressure is one of the most crucial parameters to monitor, as loss of oil pressure for just a few seconds could cause major damage.

As you increase the performance of the engine the forces placed upon the metal parts increase as well. The higher you rev the engine, the more centrifugal forces try to expel the oil off of the crankshaft. Higher oil pressure is needed to maintain the proper oil buffer.

### CAN BE USED ON:

Any application with pressurized oil lubrication.

### GOOD FOR:

Monitoring oil pressure on vehicles that don't come with a factory installed oil pressure gauge.

When modifications have been made that raise the oil pressure beyond the range of the factory gauge.

Indication of loss of oil, system leaks, pump malfunction, clogged filters.

### WHAT YOU NEED TO KNOW:

You will need to be aware of the oil pressure requirements of your vehicle. If doing modifications you will need to know the pressure ratings of your oil pump.

**NOTE:** If modifications have been made to your engine you need to verify that your oil pump is capable of producing the required pressure and volume to maintain proper lubrication.

### WHAT YOU SEE:

The needle will indicate the current oil pressure of the application being monitored. This reading should remain fairly steady and may vary with engine RPM.

### WHEN YOU SHOULD BE CONCERNED:

If the oil pressure drops below the desired limits, you should, as quickly as possible, determine and fix whatever has caused the loss of oil pressure before engine damage occurs.

### HOW IT WORKS:

#### MECHANICAL

Stewart Warner mechanical oil pressure gauges are connected directly to a port in the system being monitored via tubing and fittings.

#### ELECTRIC

Electric oil pressure gauges are connected, via wires, to a pressure sender which is installed in a port in the system being monitored.

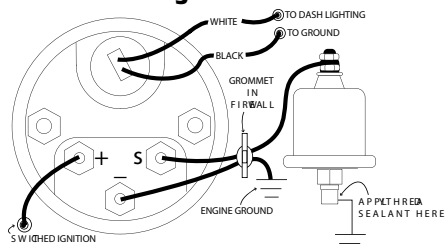
**NOTE:** In tight areas, stainless steel braided tubing can be used to remote mount the electric sender, providing both an electrical ground and pressure to the sender.

**CAUTION:** Electric gauges that require senders must be "matched" with the correct electrical match. If a sender that does not have the same electrical match is used the gauge will not provide the proper readings and the needle may act erratically.

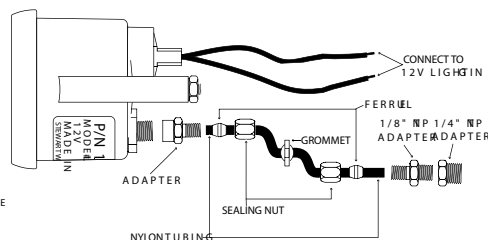
| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |
| Deluxe™   | 24   |
| Wings™  | 32   |
| Power Series™   | 36   |
| Heavy Duty™   | 42   |
| Standard  | 40   |



### Electric Wiring



### Mechanical Hook-Up



## Oil & Transmission Oil Temperature

### GENERAL:

Oil temperature gauges are used for monitoring oil temperature. Overheated oil can break down and lose its lubricating abilities.

### CAN BE USED ON:

Most applications.

### GOOD FOR:

Indicating oil temperature.

### WHAT YOU NEED TO KNOW:

You will need to know the expected temperature range of your system.

### WHAT YOU SEE:

The needle will indicate the current oil temperature on the application being monitored. This reading should remain fairly steady and may increase under heavy acceleration. You will need to know what to expect from your system.

### WHEN YOU SHOULD BE CONCERNED:

If the oil temperature rises above the desired limit, you should reduce the load placed on the engine or transmission to help reduce the temperature and then determine what is causing the overheating situation and fix it.

### HOW IT WORKS:

#### MECHANICAL

Stewart Warner mechanical oil temperature gauges are connected directly to a port in the system being monitored via a capillary tube and bulb. This tube **MUST NOT** be cut, pinched or altered in any way or the gauge will not function.

#### ELECTRIC

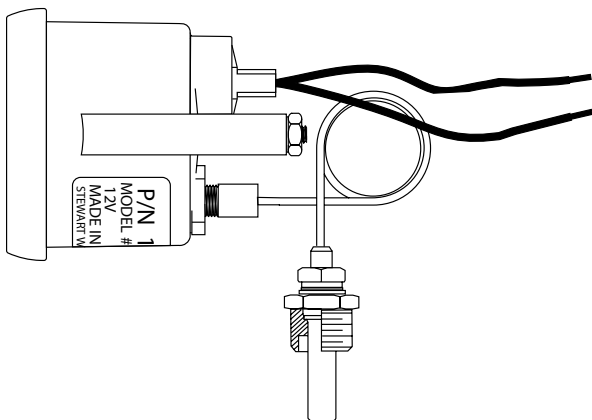
Stewart Warner electric oil temperature gauges are connected, via wires to a temperature sender which is installed in a port in the system being monitored, providing the temperature information to the gauge.

**NOTE:** In tight areas, stainless steel braided tubing can be used to remote mount the electric sender, providing both an electrical ground and pressure to the sender.

**CAUTION:** Electric gauges that require senders must be "matched" with the correct electrical match. If a sender that does not have the same electrical match is used the gauge will not provide the proper readings and the needle may act erratically.

You can find this gauge in the following product lines:

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |
| Impact™                    | 30   |
| Deluxe™                    | 24   |
| Wings™                     | 32   |
| Heavy Duty™                | 42   |
| Standard                   | 40   |



## Water (Coolant) Temperature

### GENERAL:

Monitors engine coolant temperature to indicate dangerous overheat conditions.

### CAN BE USED ON:

Most engines with a liquid cooling system.

### GOOD FOR:

Indicating coolant temperature.

### WHAT YOU NEED TO KNOW:

You will need to know the expected temperature range of your system.

### WHAT YOU SEE:

The needle will indicate the current coolant temperature on the application being monitored. This reading should remain fairly steady. You will need to know what to expect from your system.

### WHEN YOU SHOULD BE CONCERNED:

If the coolant temperature rises above the desired limit, you should reduce the load placed on the engine to help reduce the temperature and then determine what is causing the overheating situation and fix it.

### HOW IT WORKS:

#### MECHANICAL

Stewart Warner mechanical water (coolant) temperature gauges are connected directly to a port in the system being monitored via a capillary tube and bulb. This tube **MUST NOT** be cut, pinched or altered in any way or the gauge will not function.

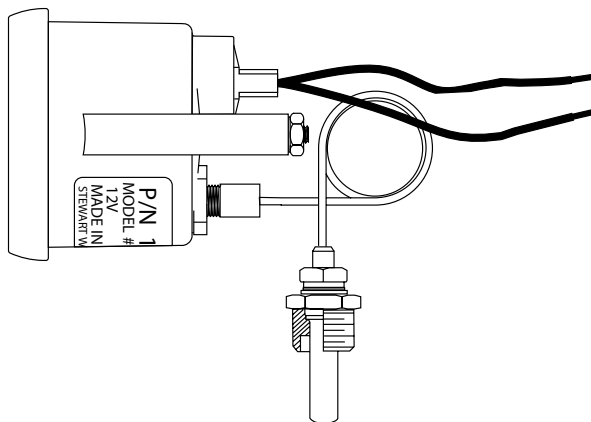
#### ELECTRIC

Stewart Warner electric water (coolant) temperature gauges are connected, via wires to a temperature sender which is installed in a port in the system being monitored, providing the temperature information to the gauge.

**NOTE:** In tight areas, stainless steel braided tubing can be used to remote mount the electric sender, providing both an electrical ground and pressure to the sender.

**CAUTION:** Electric gauges that require senders must be "matched" with the correct electrical match. If a sender that does not have the same electrical match is used the gauge will not provide the proper readings and the needle may act erratically.

| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |
| Deluxe™   | 24   |
| Wings™  | 32   |
| Power Series™   | 36   |
| Heavy Duty™   | 42   |
| Standard  | 40   |



## Pressure (No dial designation)

### GENERAL:

Pressure gauges that are not designated for a specific use can be used for any type of pressure you want to measure. For example, a 150 PSI pressure gauge could be used for oil pressure, air pressure, fuel pressure\*, etc.

\*Mechanical fuel pressure gauges must never be mounted inside the passenger compartment of any vehicle. Braided Stainless Steel tubing should be used for all fuel pressure applications.

### CAN BE USED ON:

Any vehicle or application requiring a pressure gauge where a designated gauge is not available.

Applications where the designated gauge does not have sufficient range.

### GOOD FOR:

Monitoring pressure levels of the application you are monitoring.

### WHAT YOU NEED TO KNOW:

Before selecting a pressure gauge you will need to know the operating (high/low) pressure requirements of the application you are monitoring and it's operating parameters.

Knowing the operating parameters of your system will allow you to determine if it is operating correctly by reading the gauge. Example: If your system should build to an optimum pressure range and then remain at that level, you will be able to see if the pressure level is not building to the proper level or if its fluctuating.

### WHAT YOU SEE:

This will depend on the application you are monitoring and if the pressure reading should stay steady or fluctuate. You will need to know how your system is supposed to operate to determine what you should see on the dial.

### WHEN YOU SHOULD BE CONCERNED:

When the pressure gauge is not indicating what you are expecting from the system you are monitoring. You will need to know your system to determine when you should take preventative action before damage or injury occurs.

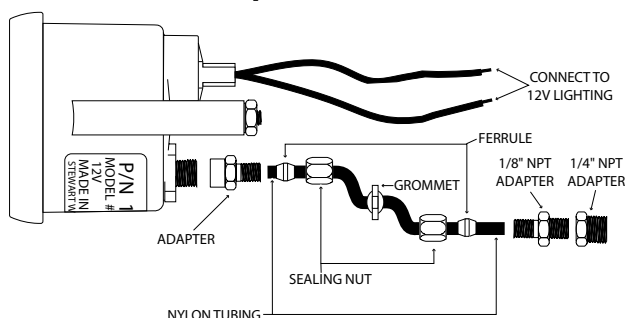
### HOW IT WORKS:

Stewart Warner mechanical pressure gauges are connected directly to a port in the system being monitored via tubing and fittings. This allows the accurate measurement of the pressure directly from the source.

| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |
| Standard  | 40   |



### Mechanical Hook-Up



## Vacuum/Motor Minder

### GENERAL:

Measures manifold vacuum or crankcase vacuum. Valuable with nitrous systems to indicate detonation. Useful for indication of leaks, worn parts, and malfunctions. Often used as an engine analyzer and tune-up gauge. Indicates if air is being drawn into the systems from anywhere other than the carburetor, which adversely affects the air/fuel mixture.

### CAN BE USED ON:

Gasoline powered vehicles.

In conjunction with nitrous systems.

### GOOD FOR:

An economy guide - the higher the manifold vacuum the better the fuel mileage.

An engine analyzer & tune-up gauge.

Monitors crank case vacuum when using vacuum pump to evacuate the crankcase (see "Evacuating the crankcase" below).

Tuning an engine in the low RPM range (adjusting carburetor idle circuits).

On nitrous systems for indication of detonation.

### WHAT YOU SEE:

When used for manifold vacuum, during normal driving the gauge will indicate vacuum. As you accelerate, the vacuum level will decrease - see "At idle" and "At speed" below for trouble shooting.

When used to monitor crank case vacuum in nitrous applications a vacuum gauge can be an excellent indicator of detonation. When detonation occurs, vacuum declines.

At idle: After the engine has warmed up a steady reading of 17-21 indicates engine in good condition. Steady below normal readings indicates a constant leak. The lower the reading the larger the leak. A constant leak could be worn piston rings, leak in manifold gasket, leaky or worn valve guides, hole in manifold or badly seated intake valve. An unsteady pointer indicates poor carburetor function, poor plug condition, or faulty ignition. An abrupt drop of 3 to 5 points at regular intervals indicates an exhaust valve is being held open. A drop of 1 or 2 points at regular intervals indicates a missing spark plug. Erratic drops of 2 to 5 points are an indication of sticky valves, poor carburetor function, or ignition troubles.

At speed: Reading will be lower than at idle but the pointer should be steady at any speed. An unsteady pointer indicates bad exhaust valves, leak in head gasket or faulty ignition. At speeds above 40 MPH an unsteady pointer will show weak valve springs, insufficient valve clearance or faulty ignition.

**CAUTION:** When in the "Power Range" (5-10) the engine is "lugging" and you should shift into a lower gear.

**CAUTION:** When in the "Coasting Range" (21-30) touch the gas occasionally to bring the vacuum reading back into the "Driving Range" (10-17) or shift to a lower gear to prevent the engine from sucking up oil from the crankcase.

### WHEN YOU SHOULD BE CONCERNED:

See "What You See" above.

### HOW IT WORKS:

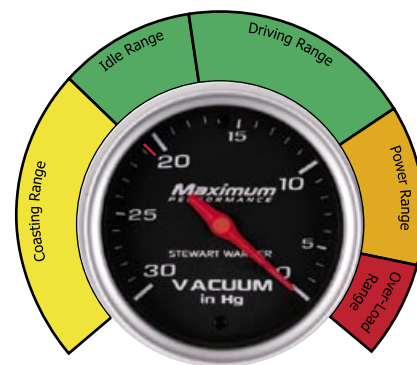
Stewart Warner mechanical vacuum gauges are connected directly to a port in the manifold via tubing and fittings.

When using to measure crank case vacuum the gauge is connected to a port in the crankcase via tubing and fittings.

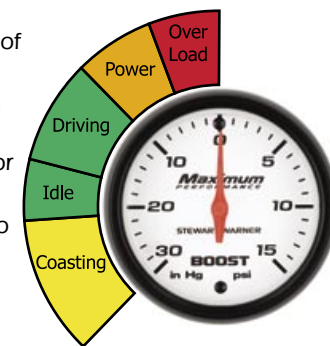
### EVACUATING THE CRANKCASE:

The vacuum gauge will monitor the crank case vacuum level when using a vacuum pump to evacuate the crank case, reducing the amount of horsepower lost through windage (the resistance to crankshaft rotation caused by air and oil mist in the crank shaft).

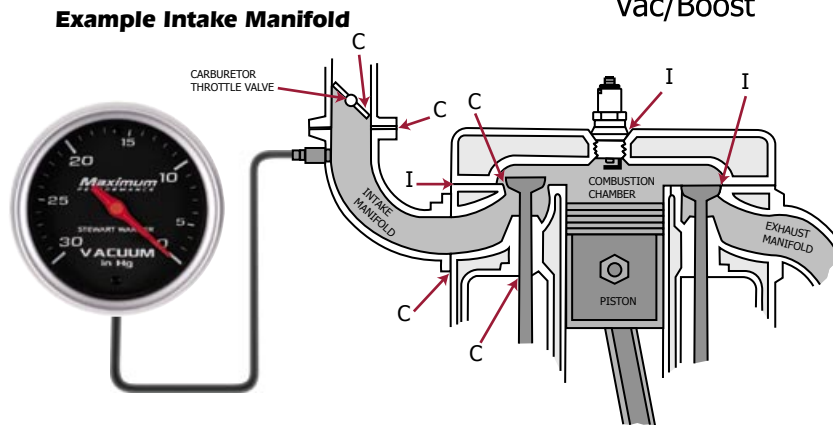
| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |
| Deluxe™   | 24   |
| Heavy Duty™   | 42   |



Straight Vac



Vac/Boost



C - Leaks occurring at these points would be constant and would result in a generally lower vacuum reading  
I - Leaks at these points would be intermittent and would result in a drop in the vacuum gauge reading when the affected cylinder operates

## Voltmeters

### GENERAL:

Voltmeters monitor electrical system voltage to ensure proper operation of the charging system and also to monitor battery levels when the key is on and the engine is not running.

### GOOD FOR:

- Ensuring that the system voltage is at the proper level.
- Ensuring battery has a full charge for optimum ignition operation.
- Indication of under- or over-charging of the battery.
- Monitoring battery charge when powering accessories without the engine running (i.e. video/game stations/audio systems/lighting).
- Monitoring battery charge when working on a vehicle with the key on but engine off.

### WHAT YOU SEE:

When the engine is running the needle will indicate the current electrical system voltage. When the engine is not running the needle will indicate the current battery charge level.

### WHEN YOU SHOULD BE CONCERNED:

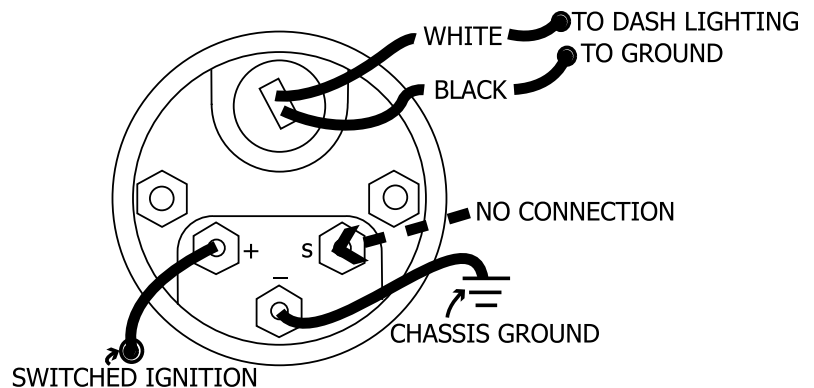
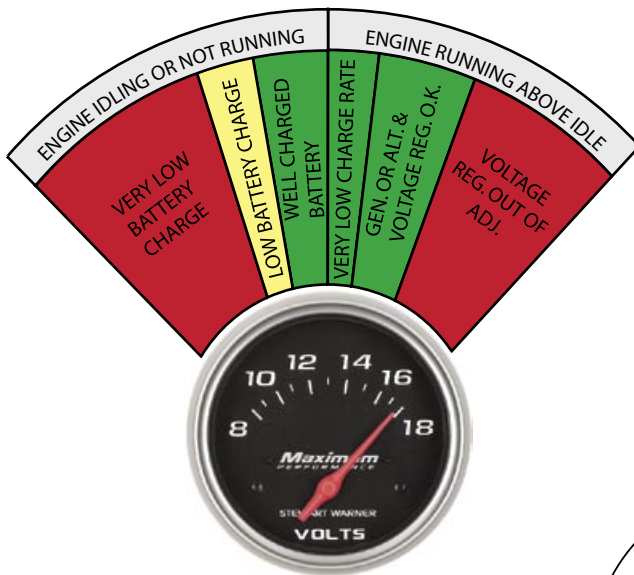
Consult the diagram below for "at-a-glance" details.  
A constant reading in the red segments on color coded voltmeters or from approximately 10-11V or 15-16V indicates a need for a complete check of either the battery or generating system.

### HOW IT WORKS:

Stewart Warner voltmeters are connected via wires to a switched 12V power source. This source is the voltage that the voltmeter will indicate. No sender is required for use with a voltmeter.

**You can find this gauge in the following product lines:**

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |
| Deluxe™                    | 24   |
| Wings™                     | 32   |
| Power Series™              | 36   |
| Heavy Duty™                | 42   |





## Fuel Level

### CAN BE USED ON:

Gasoline or diesel powered vehicles.

### GOOD FOR:

Vehicles that are not equipped with a factory fuel gauge.  
Dashboard replacement projects.

### WHAT YOU NEED TO KNOW:

Before purchasing a fuel level gauge you will need to know the electrical match, measured in Ohms, of the sender in your fuel tank. See Tech Notes "Measuring fuel level sender resistance" to learn how to measure the resistance of the sender.

**OPTION 1:** If you do not wish to remove/replace your fuel level sender you will need to measure the resistance of the sender installed in your vehicle and purchase a gauge with a matching resistance range. Stewart Warner has several gauges with electrical matches for common sender resistances.

**OPTION 2:** Replace the sender & gauge. Stewart Warner offers 240-33.4 Ohm fuel gauges in each of our product lines that work with our 240-33.5 Ohm fuel level sender.

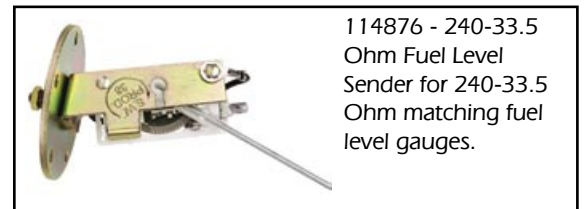
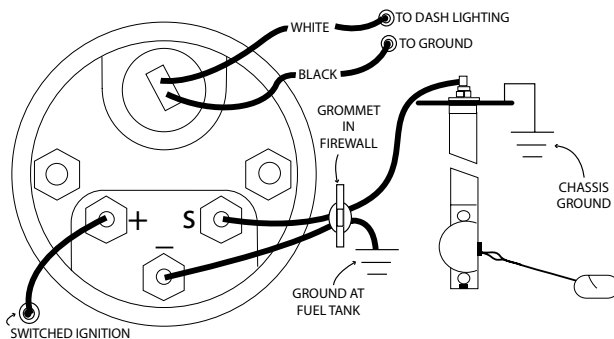
### HOW IT WORKS:

Stewart Warner fuel level gauges are connected, via wires, to a fuel level sender mounted in the fuel tank. The sender has a method of measuring the fuel level, usually a float arm, and sends an electrical signal to the fuel gauge to indicate the level to display.

**CAUTION:** The electrical match between the sender and gauge must be the same in order for the gauge to display the proper fuel level. If a non-matching sender is used, the gauge will either not work or it will display incorrect or erratic readings.

**You can find this gauge in the following product lines:**

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |
| Deluxe™                    | 24   |
| Wings™                     | 32   |
| Power Series™              | 36   |
| Heavy Duty™                | 42   |
| Standard                   | 40   |



114876 - 240-33.5 Ohm Fuel Level Sender for 240-33.5 Ohm matching fuel level gauges.

## Air Pressure

### GENERAL:

Monitors air pressure applications such as air suspension pressure levels or air brake pressure levels.

### CAN BE USED ON:

Any application where air pressure monitoring is desired or required.

### GOOD FOR:

Air suspension pressure.  
Air brake pressure.

### WHAT YOU NEED TO KNOW:

You will need to be aware of the minimum and maximum air pressure of the application you are monitoring.

### WHAT YOU SEE:

The needle will indicate the current level of air pressure on the application being monitored.

### WHEN YOU SHOULD BE CONCERNED:

If the pressure gets near the maximum pressure for the application, you need to take preventative measures immediately for safety and to prevent damage to the vehicle.

On air brake systems, generally, the air pressure dis-engages the brake and a large spring engages the brake. So if you lose air brake pressure, the vehicle stops (whether you want it to or not) and will not move until the air pressure is restored.

The air pressure on air-suspended vehicles holds the vehicle up in place of the spring. If air pressure is lost, the vehicle will end up sitting on the ground.

Also, there are some systems that use air bladders to supplement the springs (mostly on trucks) when carrying heavy loads. The pressure in the system represents the "supplement spring" by the air bladders. The more pressure, the stiffer the suspension.

If the pressure remains too low or does not build to the proper operating level, you need to take preventative measures immediately for safety and to prevent damage to the vehicle.

### HOW IT WORKS:

#### MECHANICAL

Stewart Warner mechanical air pressure gauges are connected directly to a port in the system being monitored via tubing and fittings. This allows the accurate measurement of the air pressure directly from the source.

#### ELECTRIC

Stewart Warner electric air pressure gauges are connected, via wires, to a pressure sender which is installed in a port in the system being monitored, providing the pressure information to the gauge.

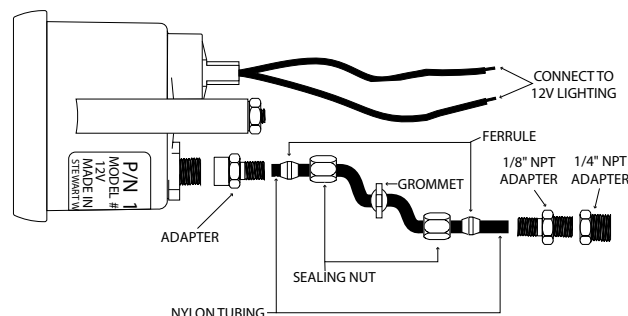
**NOTE:** In tight areas, stainless steel braided tubing can be used to remote mount the electric pressure sender, providing both an electrical ground and pressure to the sender.

**CAUTION:** Electric gauges that require senders must be "matched" with the correct electrical match. If a non-matching sender is used, the gauge will either not work or it will display incorrect or erratic readings.

| You can find this gauge in the following product lines: |      |
|---|------|
| Line  | Page |
| Competition Tachs & Gauges                              | 10   |
| Deluxe™   | 24   |
| Wings™  | 32   |
| Heavy Duty™   | 42   |



### Mechanical Hook-Up



## Water (Coolant) Pressure

### GENERAL:

Water pressure gauges are used for measuring coolant/water pressure.

### CAN BE USED ON:

Marine applications.

Any vehicle or application where you need to measure coolant/water pressure.

### GOOD FOR:

Monitoring pressure of your coolant(water) system.

### WHAT YOU NEED TO KNOW:

Before selecting a water pressure gauge you will need to know the operating pressure requirements of the application you are monitoring.

### WHAT YOU SEE:

The gauge will indicate the current pressure of the coolant/water you are monitoring.

### WHEN YOU SHOULD BE CONCERNED:

When the pressure gauge is not indicating what you are expecting to see from the system you are monitoring. You will need to know your system to determine when you should take preventative action before damage or injury occurs.

### HOW IT WORKS:

The Stewart Warner mechanical water pressure gauges are connected directly to a port in the system being monitored via tubing and fittings. This allows the accurate measurement of the pressure directly from the source.

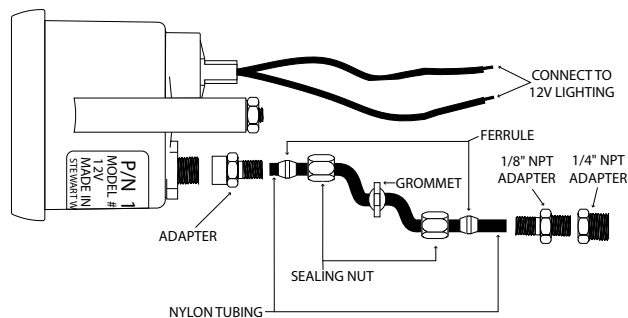
**Note:** You will need to select the fittings and adapters required for your system as we do not include them with Stewart Warner Water Pressure gauges.

You can find this gauge in the following product lines:

| Line                       | Page |
|----------------------------|------|
| Competition Tachs & Gauges | 10   |

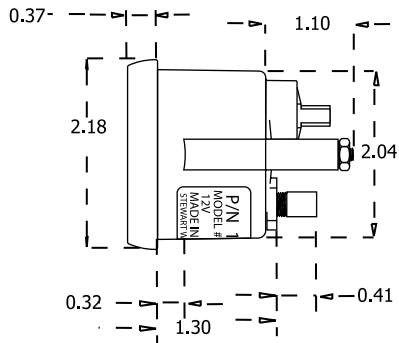


### Mechanical Hook-Up

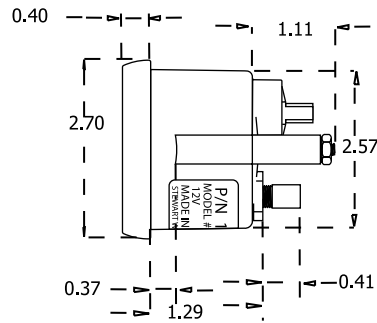


# DIMENSIONS: COMPETITION TACHS/GAUGES

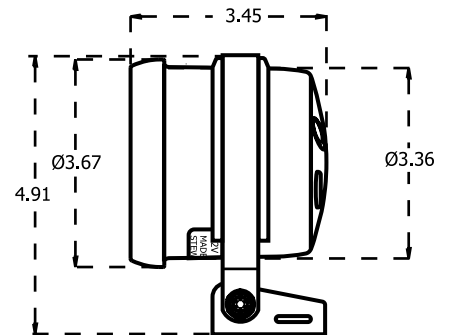
2-1/16" Gauge



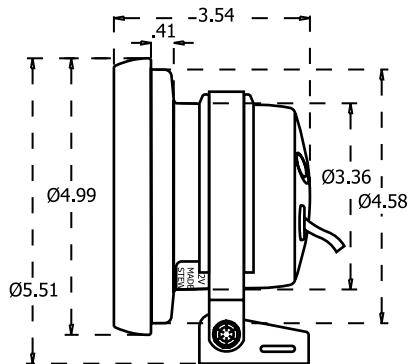
2-5/8" Gauge



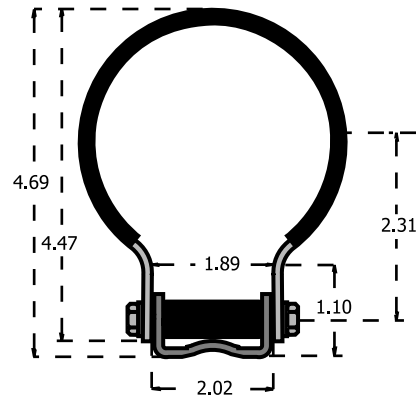
3-3/8" Tach and Speedo



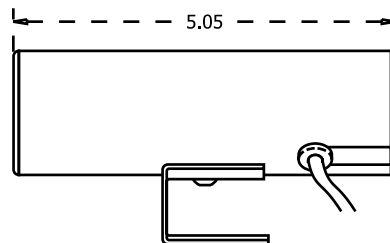
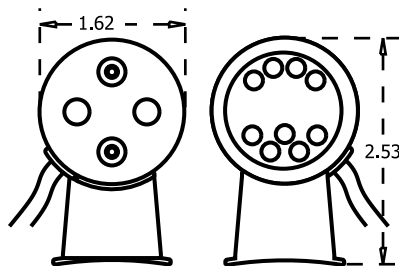
5" Tach & Speedo



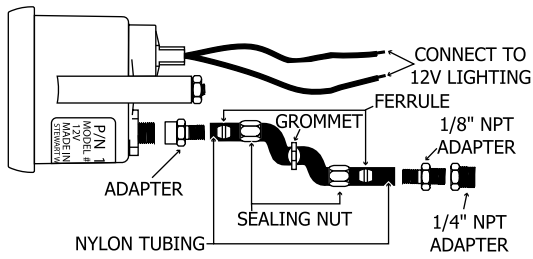
Mounting Strap for 5" & 3-3/8" Tach



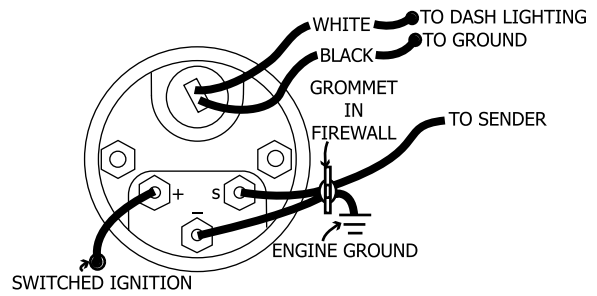
Ultra-Shift Light™, Ultra-Alert Light™ & External Shift Light



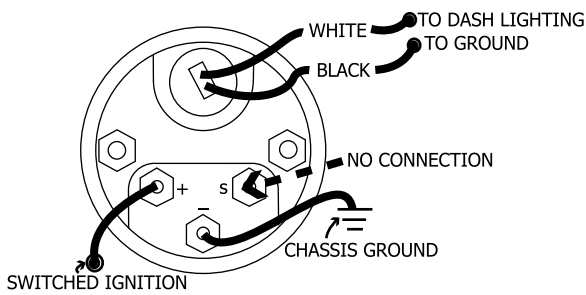
# WIRING: COMPETITION TACHS & GAUGES



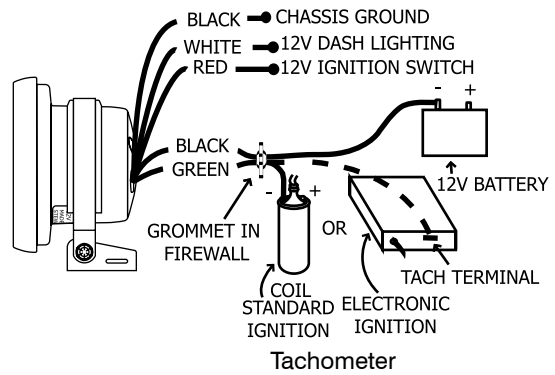
Mechanical Gauge



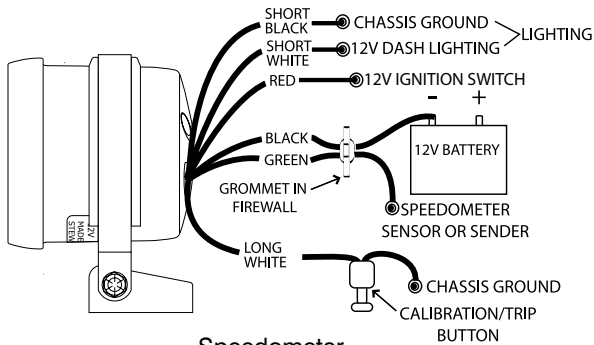
Electrical Gauge with Sender



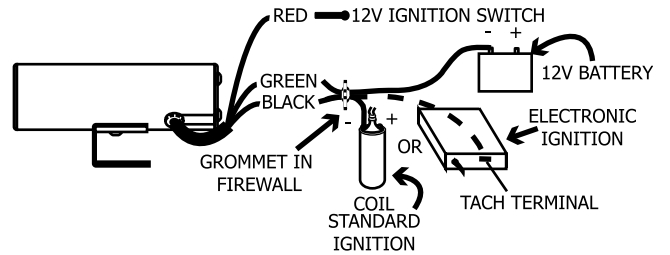
Voltmeter



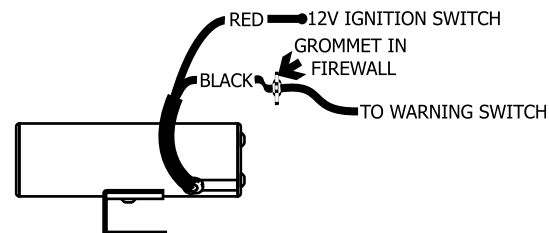
Tachometer



Speedometer



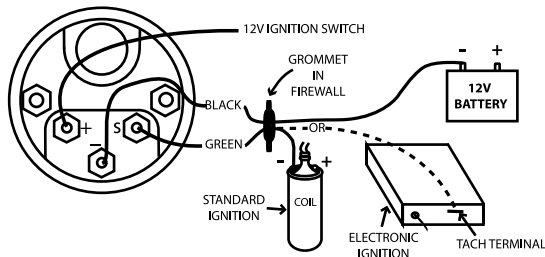
Ultra-Shift Light™



Ultra-Alert Light™

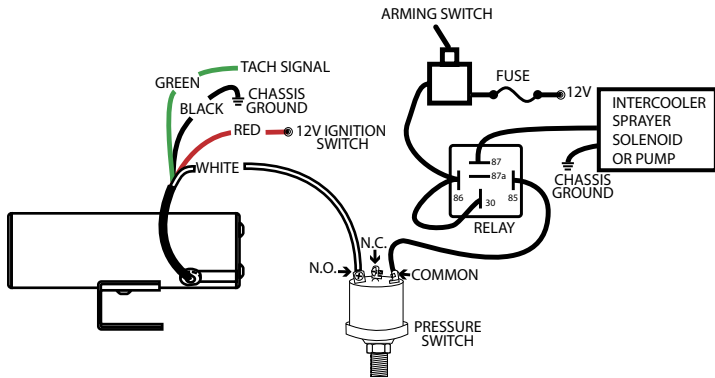
See next page for additional Ultra-Shift Light™ wiring.

# WIRING: COMPETITION TACHS/GAUGES



## Gauge Ultra-Shift™ (G.U.S.™)

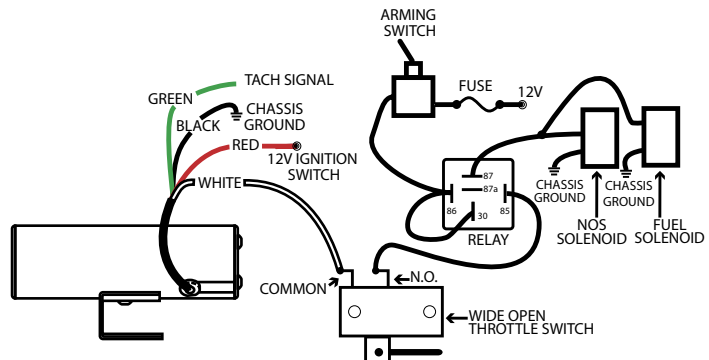
Gauge Ultra-Shift™ (G.U.S.™)



Ultra-Shift Light™ w/Programmable Controller  
Example Intercooler Sprayer Set-Upl

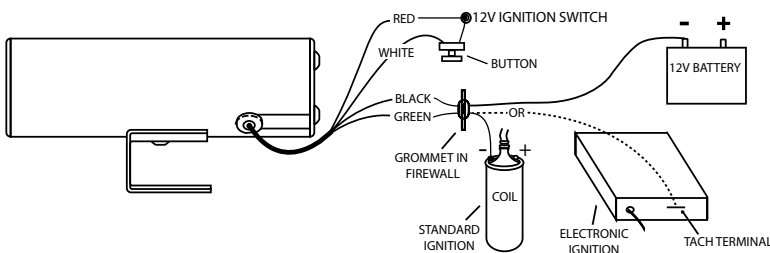
Details on using the Ultra-Shift Light™ with Programmable Controller can be found in the Tech Info section of this catalog.

## Ultra-Shift Light™ with Programmable Controller



Ultra-Shift Light™ w/Programmable Controller  
Example Nitrous Set-Upl

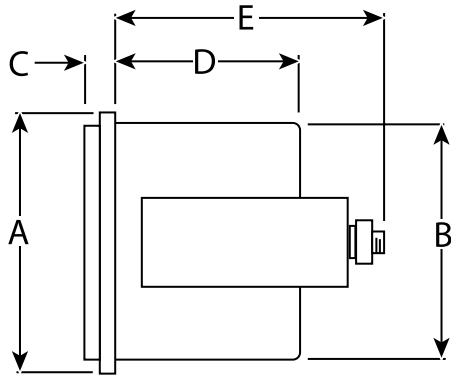
## Ultra-Shift Light™ with 4-Shift Technology



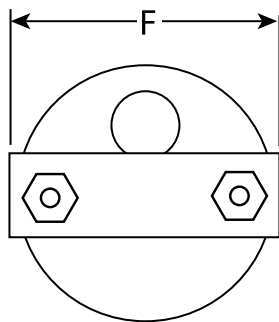
Ultra-Shift Light™ w/4-Shift Technology

Details on using the Ultra-Shift Light™ with 4-Shift Technology can be found in the Tech Info section of this catalog.

# DIMENSIONS: NON-COMPETITION LINES



Side View

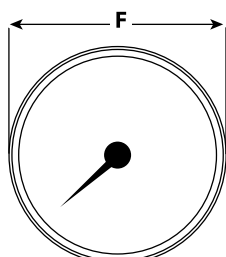
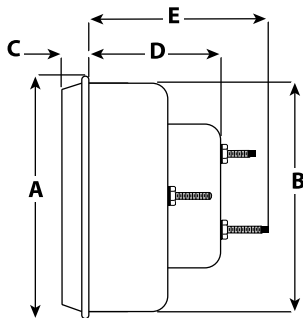


Back View

| Gauges - Deluxe™/Wings™/Power Series™/Heavy Duty™ |                |               |               |               |
|---|----------------|---------------|---------------|---------------|
| Dimension   | 2-1/16" Gauges |               | 2-5/8" Gauges |               |
|   | in.            | cm            | in.           | cm            |
| A   | 2.28           | 5.79          | 2.80          | 7.11          |
| B   | 2.06           | 5.23          | 2.60          | 6.60          |
| C<br>(Heavy Duty)                                 | .188<br>(.375) | .476<br>(.95) | .188<br>(N/A) | .476<br>(N/A) |
| D   | 1.38           | 3.51          | 1.76          | 4.47          |
| E   | 2.26           | 5.74          | 2.46          | 6.25          |
| F   | 2.25           | 5.72          | 2.88          | 7.32          |

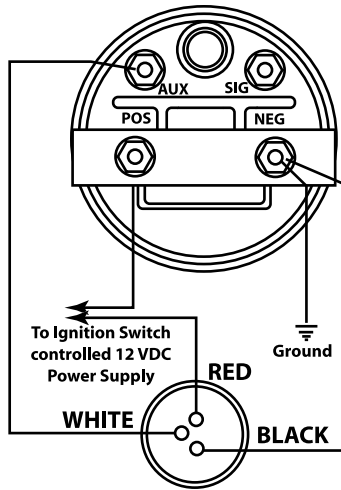
| Gauges - Standard™/Standard Plus™ |                |      |
|-----------------------------------|----------------|------|
| Dimension                         | 2-1/32" Gauges |      |
|                                   | in.            | cm   |
| A                                 | 2.19           | 5.56 |
| B                                 | 2.00           | 5.08 |
| C                                 | .25            | .064 |
| D                                 | .75            | 1.91 |
| E                                 | 1.33           | 3.38 |
| F                                 | 2.06           | 5.23 |

| Tachometer/Speedometer<br>Deluxe™/Wings™/Power Series™/Heavy Duty™ |                   |      |                 |       |
|--|-------------------|------|-----------------|-------|
| Dimension  | 3-3/8" Mechanical |      | 3-3/8" Electric |       |
|  | in.               | cm   | in.             | cm    |
| A  | 3.81              | 9.68 | 3.69            | 9.37  |
| B  | 3.34              | 8.48 | 3.34            | 8.48  |
| C  | .49               | 1.24 | .49             | 1.24  |
| D  | 2.31              | 5.87 | 2.61            | 6.63  |
| E  | 3.56              | 9.04 | 4.12            | 10.46 |
| F  | 3.59              | 9.12 | 3.59            | 9.12  |

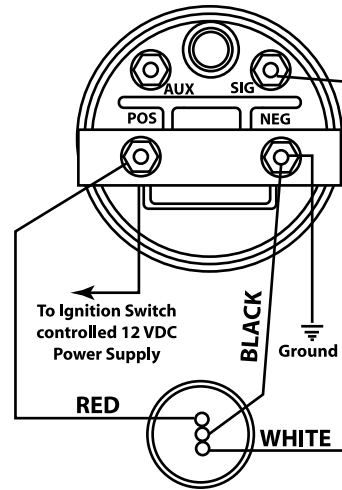


| 5" Tachometer/Speedometer/Clusters |                   |       |            |       |
|------------------------------------|-------------------|-------|------------|-------|
| Dimension                          | 5" Tach or Speedo |       | 5" Cluster |       |
|                                    | in.               | cm    | in.        | cm    |
| A                                  | 5.40              | 13.72 | 5.40       | 13.72 |
| B                                  | 5.04              | 12.80 | 5.00       | 12.7  |
| C                                  | .70               | 1.78  | .70        | 1.78  |
| D                                  | 2.62              | 6.66  | 1.12       | 2.85  |
| E                                  | 3.40              | 8.64  | 1.95       | 4.95  |
| F                                  | 5.40              | 13.72 | 5.40       | 13.72 |

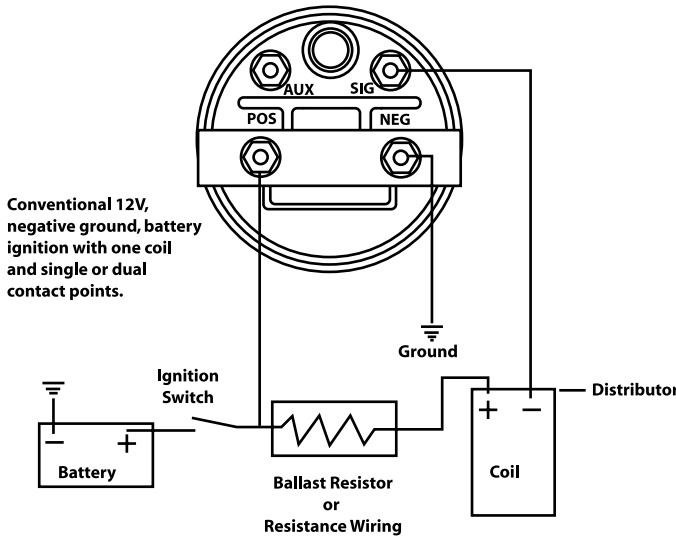
# WIRING: NON-COMPETITION LINES



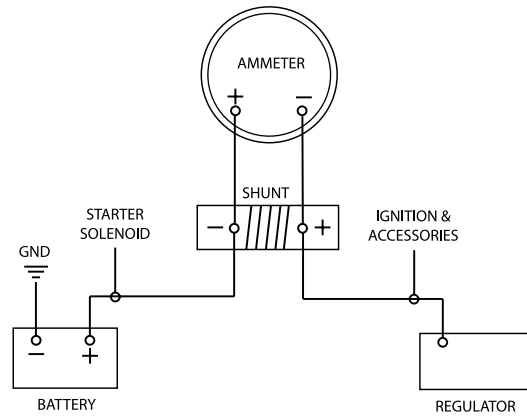
Electric Speedometer with Hall Effect Sender



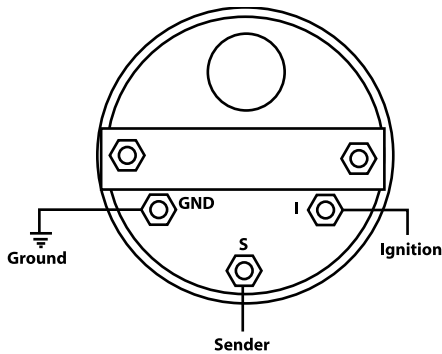
Electric Tachometer with Hall Effect Sender



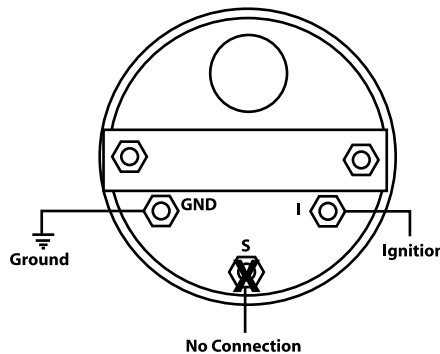
Electric Tachometer - Gasoline



Only Ammeters requiring external shunt



Electric Gauge requiring sender



Voltmeter

Caution: Positions of studs (ground, sender, ignition) are not the same as on the Competition Tachs & Gauges or the Impact™ lines of products. Follow the installation instructions that are included with your gauge.



# QUICK REFERENCE: COMPETITION LINE

| <b>Stewart Warner Competition Tachs &amp; Gauges (Maximum Series)</b>  |                                  |               |              |                            |               |              |                           |
|--|----------------------------------|---------------|--------------|----------------------------|---------------|--------------|---------------------------|
| <b>TACHOMETERS, SHIFT &amp; PEAK RECALL</b>  | <b>5" Tachometers</b>            |               |              | <b>3-3/8" Tachometers</b>  |               |              | <b>TACHOMETERS</b>        |
| <b>5" &amp; 3-3/8" Shift Light &amp; Peak Recall Electronic Tachometers</b>  | <b>Black</b>                     | <b>Silver</b> | <b>White</b> | <b>Black</b>               | <b>Silver</b> | <b>White</b> | <b>Adaptor</b>            |
| 11,000 RPM Vert. Scale w/Shift Light & Recall 2,4,6,8,10,12 Cyl.   | 114012                           | 114013        | 114014       |                            |               |              | N/A                       |
| 10,000 RPM Vert. Scale w/Shift Light & Recall 2,4,6,8,10,12 Cyl.   |                                  |               |              | 114109                     | 114110        | 114111       | N/A                       |
| 10,000 RPM Horiz. Scale w/Shift Light & Recall 2,4,6,8,10,12 Cyl.  | 114018                           | 114019        | 114020       | 114112                     | 114113        | 114114       | N/A                       |
| 10,000 RPM Horiz. Circle Track w/Peak Recall 4,6,8,10,12 Cyl.  | 114024                           | 114025        | 114026       |                            |               |              | N/A                       |
| 9,000 RPM Vert. Scale w/Shift Light & Recall 2,4,6,8,10,12 Cyl.  | 114015                           | 114016        | 114017       |                            |               |              | N/A                       |
| Note: Tachs in bold above are not equipped with 1-5/8" external shift lights, but will accept the plug-in ADD-ON Lights below. |                                  |               |              |                            |               |              |                           |
| 3-3/8" bolded tachs have led shift light in the dial, 5" bolded have no dial led shift light but accept plug-in ADD-ON light.  |                                  |               |              |                            |               |              |                           |
| <b>ADD-ON 1-5/8" SHIFT LIGHTS FOR BOLDED TACHS ABOVE</b>   | <b>1-5/8" ADD-ON Shft. Lgts.</b> |               |              |                            |               |              | <b>ADD-ON Shift Light</b> |
| <b>1-5/8" Add-On Shift Light plugs into pigtail on tachs</b>   | <b>Amber</b>                     | <b>Red</b>    | <b>Blue</b>  |                            |               |              | <b>Sender</b>             |
| 1-5/8" Plug-in/Add-ON Shift Light for tachs in bold above  | 114914                           | 114915        | 114916       |                            |               |              | N/A                       |
| <b>TACHOMETERS, STANDARD</b>   | <b>5" Tachometers</b>            |               |              | <b>3-3/8" Tachometers</b>  |               |              | <b>TACHOMETERS</b>        |
| <b>5" &amp; 3-3/8" Standard Electronic Tachometers</b>   | <b>Black</b>                     | <b>Silver</b> | <b>White</b> | <b>Black</b>               | <b>Silver</b> | <b>White</b> | <b>Adaptor</b>            |
| 10,000 RPM Vertical Scale 4,6,8,10, & 12 Cyl.  | 114000                           | 114001        | 114002       | 114100                     | 114101        | 114102       | N/A                       |
| 10,000 RPM Horizontal Scale 4,6,8,10, & 12 Cyl.  | 114006                           | 114007        | 114008       | 114106                     | 114107        | 114108       | N/A                       |
| 8,000 RPM Vertical Scale 4,6,8,10, & 12 Cyl.   | 114003                           | 114004        | 114005       | 114103                     | 114104        | 114105       | N/A                       |
| 8,000 RPM Horizontal Scale 4,6,8,10, & 12 Cyl.   | 114009                           | 114010        | 114011       | 114115                     | 114116        | 114117       | N/A                       |
| 6,000 RPM Diesel Alternator Tach, Adjustable Calibration   | 114027                           | 114028        | 114029       | 114030                     | 114031        | 114032       | N/A                       |
| <b>SPEEDOMETERS, ELECTRONIC</b>  | <b>5" Speedometers</b>           |               |              | <b>3-3/8" Speedometers</b> |               |              | <b>SPEEDOMETERS</b>       |
| <b>5" &amp; 3-3/8" Electronic Programmable Speedometers</b>  | <b>Black</b>                     | <b>Silver</b> | <b>White</b> | <b>Black</b>               | <b>Silver</b> | <b>White</b> | <b>Sender</b>             |
| 200 MPH Programmable Electric Speedometer, pushbutton calibration  |                                  |               |              | 114706                     | 114707        | 114708       | 114877 or 114878          |
| 160 MPH Programmable Electric Speedometer, pushbutton calibration  | 114709                           | 114710        | 114711       | 114703                     | 114704        | 114705       | 114877 or 114878          |
| 120 MPH Programmable Electric Speedometer, pushbutton calibration  |                                  |               |              | 114700                     | 114701        | 114702       | 114877 or 114878          |
| 260 KPH Programmable Electric Speedometer, pushbutton calibration  | 114715                           | 114716        | 114717       | 114712                     | 114713        | 114714       | 114877 or 114878          |
| Speedo Sender, AC self-powered, two wire w/ 0.104" Tip (easy 2 wire install)   |                                  |               |              |                            |               |              | 114877                    |
| Speedo Sender, Hall Effect 8 Pulse, 12Volts w/ 0.187" Tip  |                                  |               |              |                            |               |              | 114878                    |
| .104" Square Drive Tip   |                                  |               |              |                            |               |              | 114880                    |
| .187" Diameter Drive Tang  |                                  |               |              |                            |               |              | 114882                    |
| .203" Diameter Drive Tang  |                                  |               |              |                            |               |              | 114883                    |
| <b>ULTRA-SHIFT LIGHTS</b>  | <b>1-5/8" Ultra-Shift Lights</b> |               |              |                            |               |              | <b>ULTRA-SHIFT</b>        |
| <b>1-5/8" Programmable Ultra-Shift Lights</b>  | <b>Amber</b>                     | <b>Red</b>    | <b>Blue</b>  |                            |               |              | <b>Adaptor</b>            |
| Ultra-Shift Light, Digital Tach, Peak Recall programmable 2,3,4,5,6,8,10,&12 Cly   | 114906                           | 114918        | 114919       |                            |               |              | N/A                       |
| Ultra-Shift Light Paintable Housing, programmable 2,3,4,5,6,8,10,&12 Cly   | 114946                           | 114947        | 114948       |                            |               |              | N/A                       |
| Ultra-Shift Light W/Window Switch Controller, programmable 1,2,3,4,5,6,8,10,&12 Cly  | 114958                           | 114959        | 114960       |                            |               |              | N/A                       |

# QUICK REFERENCE: COMPETITION LINE

| <b>ULTRA-SHIFT LIGHTS</b>   | <b>1-5/8" Ultra-Shift Lights</b> |                |                |                |                |                | <b>ULTRA-SHIFT</b>         |
|---|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------------------|
| <b>1-5/8" Programmable Ultra-Shift Lights</b>   | <b>Amber</b>                     | <b>Red</b>     | <b>Blue</b>    |                |                |                | <b>Adaptor</b>             |
| Ultra-Shift Light 4-Shift programmable 1,2,3,4,5,6,8,10,&12 Cly                           | 114926                           | 114927         | 114928         |                |                |                | N/A                        |
| <b>GAUGE ULTRA-SHIFT LIGHTS</b>   | <b>2-1/16"</b>                   | <b>2-1/16"</b> | <b>2-1/16"</b> |                |                |                | <b>GAUGE ULTRA-SHIFT</b>   |
| <b>2-1/16" Programmable Gauge Ultra-Shift</b>   | <b>Amber</b>                     | <b>Red</b>     | <b>Blue</b>    |                |                |                | <b>Adaptor</b>             |
| Black Gauge Ultra-Shift Light, Digital Tach, Peak Recall, prog. 1,2,3,4,5,6,8,10,&12 Cly  | 114929                           | 114930         | 114931         |                |                |                | N/A                        |
| Silver Gauge Ultra-Shift Light, Digital Tach, Peak Recall, prog. 1,2,3,4,5,6,8,10,&12 Cly | 114949                           | 114950         | 114951         |                |                |                | N/A                        |
| <b>WARNING LIGHTS</b>   | <b>1-5/8" Warning Light</b>      |                |                |                |                |                | <b>WARNING LIGHTS</b>      |
| <b>1-5/8" Warning Lights for use with Temp or Pressure Switches below</b>                 | <b>Amber</b>                     | <b>Red</b>     | <b>Blue</b>    |                |                |                | <b>Sender</b>              |
| Ultra-Alert LED Warning Light   | 114907                           | 114908         | 114909         |                |                |                | See Switches Below         |
| <b>PRESSURE SWITCHES for WARNING LIGHTS</b>   |                                  |                |                |                |                |                | <b>PRESSURE SWITCH</b>     |
| <b>Warning Light Pressure Switches</b>  | <b>Switch</b>                    |                |                |                |                |                | <b>Adaptors</b>            |
| 10 Psi. NO or NC Pressure Switch  | 114888                           |                |                |                |                |                | See Adaptors               |
| 15 Psi. NO or NC Pressure Switch  | 114889                           |                |                |                |                |                | See Adaptors               |
| 35 Psi. NO or NC Pressure Switch  | 114890                           |                |                |                |                |                | See Adaptors               |
| 60 Psi. NO or NC Pressure Switch  | 114891                           |                |                |                |                |                | See Adaptors               |
| 100 Psi. NO or NC Pressure Switch   | 114892                           |                |                |                |                |                | See Adaptors               |
| <b>TEMPERATURE SWITCHES for WARNING LIGHTS</b>  |                                  |                |                |                |                |                | <b>TEMP SWITCHES</b>       |
| <b>Warning light Temperature Switches</b>   | <b>Switch</b>                    |                |                |                |                |                | <b>Adaptors</b>            |
| 1/4" NPTF 200 Degree F Spade Terminal   | 114884                           |                |                |                |                |                | See Adaptors               |
| 1/4" NPTF 225 Degree F Spade Terminal   | 114885                           |                |                |                |                |                | See Adaptors               |
| 1/4" NPTF 225 Degree F Screw Terminal   | 114886                           |                |                |                |                |                | See Adaptors               |
| 1/4" NPTF 240 Degree F Screw Terminal   | 114887                           |                |                |                |                |                | See Adaptors               |
| <b>1-1/2" ELECTRIC GAUGES</b>   | <b>1-1/2"</b>                    | <b>1-1/2"</b>  | <b>1-1/2"</b>  |                |                |                | <b>1-1/2" ELECTRIC GA.</b> |
| <b>All 1-1/2" Electric 90 Degree Sweep Gauges, Black Face Only</b>                        | <b>Amber</b>                     | <b>Red</b>     | <b>Blue</b>    |                |                |                | <b>Sender</b>              |
| Water Temp 100-260F, Back-Lit Pointer & Dial  | 116200                           | 116201         | 116202         |                |                |                | Included                   |
| Oil Temp 140-320F, Back-Lit Pointer & Dial  | 116203                           | 116204         | 116205         |                |                |                | Included                   |
| Trans Temp, 140-320F, Back-Lit Pointer & Dial   | 116206                           | 116207         | 116208         |                |                |                | Included                   |
| Oil Pressure 100Psi., Back-Lit Pointer & Dial   | 116209                           | 1116210        | 116211         |                |                |                | Included                   |
| Fuel Pressure 15 Psi., Back-Lit Pointer & Dial  | 116212                           | 116213         | 116214         |                |                |                | Included                   |
| Fuel Pressure 100 Psi., Back-Lit Pointer & Dial   | 116215                           | 116216         | 116217         |                |                |                | Included                   |
| Fuel Level, 240-33.5 Ohm, New sender recommended, Back-Lit Pointer & Dial                 | 116218                           | 116219         | 116220         |                |                |                | 114876                     |
| Voltmeter 8-18 Volts, Back-Lit Pointer & Dial   | 116221                           | 116222         | 116223         |                |                |                | None                       |
| Temp Replacement Sender, All 90 Degree Ga. 1/8" NPT, w/ 1/4 & 1/2 " NPT Adaptors          | 114873                           |                |                |                |                |                | Replacement                |
| 15 Psi. 240-33.5 Ohm Replacement Sender   | 114874                           |                |                |                |                |                | Replacement                |
| 100 Psi 240-33.5 Replacement Sender   | 114875                           |                |                |                |                |                | Replacement                |
| Fuel Level Sender, 240E-33.5F, SAE 5-hole   | 114876                           |                |                |                |                |                | Replacement                |
| <b>VOLTMETER</b>  | <b>2-5/8"</b>                    | <b>2-5/8"</b>  | <b>2-5/8"</b>  | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>VOLTMETER</b>           |
| <b>2-1/16" &amp; 2-5/8" 90 Degree Sweep Electric Gauges</b>                               | <b>Black</b>                     | <b>Silver</b>  | <b>White</b>   | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Sender</b>              |
| Voltmeter 8-18 Volts  | 114203                           | 114204         | 114205         | 114200         | 114201         | 114202         | N/A                        |

# QUICK REFERENCE: COMPETITION LINE

| FUEL LEVEL  | 2-5/8"        | 2-5/8"        | 2-5/8"        | 2-1/16"        | 2-1/16"        | 2-1/16"        | FUEL LEVEL              |
|---|---------------|---------------|---------------|----------------|----------------|----------------|-------------------------|
| <b>2-1/16" &amp; 2-5/8" 90 Degree Sweep Electric Gauges</b> | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Sender</b>           |
| Fuel Level 0E-90F, GM 1965 and newer (aprox.)               | 114227        | 114228        | 114229        | 114224         | 114225         | 114226         | Not Available           |
| Fuel Level 73E-10F, Ford pre-1990, & Chry (aprox.)          | 114233        | 114234        | 114235        | 114230         | 114231         | 114232         | Not Available           |
| Fuel Level 240E-33F, SW Industry Std.                       | 114239        | 114240        | 114241        | 114236         | 114237         | 114238         | 114876                  |
| Fuel Level 16E-158F, 1990 and newer Ford (aprox.)           | 114251        | 114252        | 114253        | 114248         | 114249         | 114250         | Not Available           |
| Fuel Level Sender, 240E-33.5F, SAE 5-hole                   | 114876        |               |               |                |                |                | Replacement             |
| See Intellisensors for high durability sender applications  |               |               |               |                |                |                | Intellisensor           |
| <b>FUEL PRESSURE ELECTRIC</b>                               | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>FUEL PRESS ELEC.</b> |
| <b>2-1/16" &amp; 2-5/8" 90 Degree Sweep Electric Gauges</b> | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Sender</b>           |
| Fuel Pressure, 1 Bar, Electric                              |               |               |               | 114206         | 114207         | 114208         | Included                |
| Fuel Pressure, 7 Bar, Electric                              |               |               |               | 114209         | 114210         | 114211         | Included                |
| Fuel pressure, 15 Psi., Electric                            | 114215        | 114216        | 114217        | 114212         | 114213         | 114214         | Included                |
| Fuel pressure, 100 Psi., Electric                           | 114221        | 114222        | 114223        | 114218         | 114219         | 114220         | Included                |
| 15 Psi. 240-33.5 Ohm Replacement Sender                     | 114874        |               |               |                |                |                | Replacement             |
| 100 Psi 240-33.5 Replacement Sender                         | 114875        |               |               |                |                |                | Replacement             |
| <b>OIL PRESSURE ELECTRIC</b>                                | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>OIL PRESS ELEC.</b>  |
| <b>2-1/16" &amp; 2-5/8" 90 Degree Sweep Electric Gauges</b> | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Sender</b>           |
| Oil Pressure, 7 Bar Electric                                |               |               |               | 114260         | 114261         | 114262         | Included                |
| Oil pressure 100Psi. Electric                               | 114257        | 114258        | 114259        | 114254         | 114255         | 114256         | Included                |
| 15 Psi. 240-33.5 Ohm Replacement Sender                     | 114874        |               |               |                |                |                | Replacement             |
| 100 Psi 240-33.5 Replacement Sender                         | 114875        |               |               |                |                |                | Replacement             |
| <b>OIL TEMPERATURE ELECTRIC</b>                             | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>OIL TEMP ELEC.</b>   |
| <b>2-1/16" &amp; 2-5/8" 90 Degree Sweep Electric Gauges</b> | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Sender</b>           |
| Oil Temp, 60°-160°C   |               |               |               | 1142263        | 114264         | 114265         | Included                |
| Oil Temp, 140°-320°F  | 114269        | 114270        | 114271        | 114266         | 114267         | 114268         | Included                |
| Temp Sender, 1/8" NPT All Performance 90 Deg. Temp Gauges   | 114873        |               |               |                |                |                | Replacement             |
| <b>WATER TEMPERATURE ELECTRIC</b>                           | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>WATER TEMP ELEC.</b> |
| <b>2-1/16" &amp; 2-5/8" 90 Degree Sweep Electric Gauges</b> | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Sender</b>           |
| Water Temp, 40°-130°C                                       |               |               |               | 114278         | 114279         | 114280         | Included                |
| Water Temp, 100°-260°F                                      | 114275        | 114276        | 114277        | 114272         | 114273         | 114274         | Included                |
| Temp Sender, 1/8" NPT All Performance 90 Deg. Temp Gauges   | 114873        |               |               |                |                |                | Replacement             |
| <b>TRANSMISSION TEMPERATURE ELECTRIC</b>                    | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>TRANS TEMP ELEC.</b> |
| <b>2-1/16" &amp; 2-5/8" 90 Degree Sweep Electric Gauges</b> | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Sender</b>           |
| Trans Temp Blk. 60°-160°C                                   |               |               |               | 114281         | 114282         | 114283         | Included                |
| Trans Temp, 140°-320°F                                      | 114287        | 114288        | 114289        | 114284         | 114285         | 114286         | Included                |
| Temp Sender, 1/8" NPT All Performance 90 Deg. Temp Gauges   | 114873        |               |               |                |                |                | Replacement             |

# QUICK REFERENCE: COMPETITION LINE

|  |               |               |               |                |                |                |                        |
|--|---------------|---------------|---------------|----------------|----------------|----------------|------------------------|
| <b>EXHAUST TEMPERATURE 270 DEGREE ELECTRIC</b>                                 | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>EGT</b>             |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Electric Gauges</b>                   | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Sender</b>          |
| Exhaust Temp 1600°F (gauge only) require choice of probe and hardware below    |               |               |               | 114400         | 114401         | 114402         | Not Included           |
| Exhaust Temp 2200°F (gauge only) require choice of probe and hardware below    |               |               |               | 114406         | 114407         | 114408         | Not Included           |
| Exhaust Temp 1200°C (gauge only) require choice of probe and hardware below    |               |               |               | 114403         | 114404         | 114405         | Not Included           |
| 2-1/16" Exhaust Temp 1600°F, W/ Type "K" Probe & Complete Installation Kit     |               |               |               | 117538         | 119609         | 119608         | Complete Kit           |
| <b>EXHAUST TEMPERATURE ELECTRIC</b>  |               |               |               |                |                |                | <b>EGT</b>             |
| <b>Pyrometer Accessories &amp; Performance Thermocouple Probes, Type "K"</b>   |               |               |               |                |                |                | <b>Accessories</b>     |
| 1/4" Street Probe Kit w/ 10' Wire & Kit  | 114653        |               |               |                |                |                | New or Replace         |
| 3/16" Street Perf. Probe w/10' Wire & Kit                                      | 114654        |               |               |                |                |                | New or Replace         |
| 3/16" High Performance Probe, 10' - no fittings                                | 114655        |               |               |                |                |                | New or Replace         |
| 1/4" High Performance Probe, 10' w/ fittings                                   | 114656        |               |               |                |                |                | New or Replace         |
| 1/4" x 1/8" NPT Probe Installation Kit   | 114657        |               |               |                |                |                | New or Replace         |
| 3/16" x 1/8" NPT Probe Installation Kit  | 114658        |               |               |                |                |                | New or Replace         |
| 3/16" Probe Band Clamp Kit   | 114659        |               |               |                |                |                | New or Replace         |
| 1/4" Probe Band Clamp Kit  | 114660        |               |               |                |                |                | New or Replace         |
| <b>AIR FUEL RATIO GAUGE</b>  | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>AIR FUEL RATIO</b>  |
| <b>2" &amp; 2-5/8" Air Fuel Ratio (Narrow Band) 270 Deg. Bar Graph</b>         | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Sender</b>          |
| Air Fuel Ratio, Lean, Stoichiometric, Rich, 20 LED Bar Graph                   | 114903        | 114904        | 114905        | 114900         | 114901         | 114902         | Not Available          |
| <b>VACUUM MECHANICAL GAUGE</b>   | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>VACUUM MECH.</b>    |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                        | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>             |
| Vacuum 0-30 inHg, 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings             | 114303        | 114304        | 114305        | 114300         | 114301         | 114302         | Included               |
| <b>BOOST MECHANICAL GAUGE</b>  | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>BOOST MECH.</b>     |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                        | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>             |
| Boost Press, 4 Bar, 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings           |               |               |               | 114330         | 114331         | 114332         | Included               |
| Boost Press, 15 Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings         |               |               |               | 114373         | 114374         | 114375         | Included               |
| Boost Press, 30 Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings         |               |               |               | 114376         | 114377         | 114378         | Included               |
| Boost Press, 60 Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings         | 114527        | 114528        | 114529        | 114524         | 114525         | 114526         | Included               |
| Boost Press, 100 Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings        |               |               |               | 114385         | 114386         | 114387         | Included               |
| <b>VAC-BOOST, MECHANICAL GAUGE</b>   | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>VAC-BOOST MECH.</b> |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mech.</b>                             | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>             |
| Vac/Boost 80 cmHg -1 Bar, 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings     |               |               |               | 114333         | 114334         | 114335         | Included               |
| Vac/Boost 80 cmHg - 3 Bar, 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings    |               |               |               | 114336         | 114337         | 114338         | Included               |
| Vac/Boost Blk. 30Hg/15Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings   | 114539        | 114540        | 114541        | 114536         | 114537         | 114538         | Included               |
| Vac/Boost 30 inHg to 25 Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings |               |               |               | 114379         | 114380         | 114381         | Included               |
| Vac/Boost Blk. 30Hg/40Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings   | 114545        | 114546        | 114547        | 114542         | 114543         | 114544         | Included               |

# QUICK REFERENCE: COMPETITION LINE

|  |               |               |               |                |                |                |                          |
|--|---------------|---------------|---------------|----------------|----------------|----------------|--------------------------|
| <b>BLOWER PRESSURE MECHANICAL GAUGE</b>  | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>BLOWER MECH.</b>      |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                          | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>               |
| Blower Press, 100 Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings         | 114533        | 114534        | 114535        | 114530         | 114531         | 114532         | Included                 |
| <b>FUEL PRESSURE MECHANICAL GAUGE</b>  | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>FUEL PRESS MECH.</b>  |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                          | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>               |
| Fuel Press 1 Bar, requires mounting outside cockpit (gauge only)                 |               |               |               | 114318         | 114319         | 114320         | See Accessories          |
| Fuel Press 4 Bar, requires mounting outside cockpit (gauge only)                 |               |               |               | 114321         | 114322         | 114323         | See Accessories          |
| Fuel Press 7 Bar, requires mounting outside cockpit (gauge only)                 |               |               |               | 114324         | 114325         | 114326         | See Accessories          |
| Fuel Press 15 Psi., requires mounting outside cockpit (gauge only)               | 114503        | 114504        | 114505        | 114500         | 114501         | 114502         | See Accessories          |
| Fuel Press, 30 Psi., requires mounting outside cockpit (gauge only)              |               |               |               | 114382         | 114383         | 114384         | See Accessories          |
| Fuel Press 60 Psi., requires mounting outside cockpit (gauge only)               | 114509        | 114510        | 114511        | 114506         | 114507         | 114508         | See Accessories          |
| Fuel Press 100 Psi., requires mounting outside cockpit (gauge only)              | 114515        | 114516        | 114517        | 114512         | 114513         | 114514         | See Accessories          |
| Note: Braided Stainless hoses are recommended for all Fuel pressure applications |               |               |               |                |                |                | See Accessories          |
| <b>OIL PRESSURE MECHANICAL GAUGE</b>   | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>OIL PRESS MECH.</b>   |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                          | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>               |
| Oil Press 7 Bar, 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings                |               |               |               | 114327         | 114328         | 114329         | Included                 |
| Oil Press 100 Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings             | 114521        | 114522        | 114523        | 114518         | 114519         | 114520         | Included                 |
| Oil Press 150 Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings             | 1114391       | 114392        | 114393        | 114388         | 114389         | 114390         | Included                 |
| Note: Braided Stainless hoses are recommended for all Oil pressure applications  |               |               |               |                |                |                | See Accessories          |
| <b>AIR PRESSURE MECHANICAL GAUGE</b>   | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>AIR PRESS MECH.</b>   |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                          | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>               |
| Air Pressure 10 Bar, 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings            |               |               |               | 114339         | 114340         | 114341         | Included                 |
| Air Pressure 150 Psi., 6' 1/8" Nylon tube with 1/8" & 1/4" NPT fittings          | 114551        | 114552        | 114553        | 114548         | 114549         | 114550         | Included                 |
| <b>WATER PRESSURE MECHANICAL GAUGE</b>   | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>WATER PRESS MECH.</b> |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                          | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>               |
| Water Press 15 Psi., (gauge only) see accessories for tubing                     | 114587        | 114588        | 114589        | 114584         | 114585         | 114586         | See Accessories          |
| Water Press 35 Psi., (gauge only) see accessories for tubing                     | 114593        | 114594        | 114595        | 114590         | 114591         | 114592         | See Accessories          |

# QUICK REFERENCE: COMPETITION LINE

|   |               |               |               |                |                |                |                            |
|---|---------------|---------------|---------------|----------------|----------------|----------------|----------------------------|
| <b>NITROUS PRESSURE MECHANICAL GAUGE</b>  | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>NITROUS PRESS MECH.</b> |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                             | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>                 |
| Nitrous, 1500 Psi. , (gauge only) see accessories for tubing                        | 119601        | 119602        | 119603        | 119383         | 119384         | 119385         | See Accessories            |
| Note: Braided Stainless hoses are recommended for all Nitrous pressure applications |               |               |               |                |                |                | See Accessories            |
| <b>BRAKE PRESSURE MECHANICAL GAUGE</b>  | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>BRAKE PRESS MECH.</b>   |
| Check for Availability in 2006  | Black         | Silver        | White         | Black          | Silver         | White          | Kit                        |
| <b>PRESSURE MECHANICAL GAUGE</b>  | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>PRESS MECH.</b>         |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                             | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>                 |
| Pressure, 0-200 Psi., (gauge only)  | 114309        | 114310        | 114311        | 114306         | 114307         | 114308         | See Accessories            |
| Pressure, 0-300 Psi. (gauge only)   | 114315        | 114316        | 114317        | 114312         | 114313         | 114314         | See Accessories            |
| Note: Braided Stainless hoses are recommended for all general pressure applications |               |               |               |                |                |                | See Accessories            |
| <b>WATER TEMPERATURE MECHANICAL GAUGE</b>   | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>WATER TEMP MECH.</b>    |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                             | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>                 |
| Water Temp 40°-130°C 1.8m Capillary Length, w/light & 1/2" bushing                  |               |               |               | 114342         | 114343         | 114344         | Included                   |
| Water Temp 100°-260°F 6' Capillary Length, w/light & 1/2" bushing                   | 114557        | 114558        | 114559        | 114554         | 114555         | 114556         | Included                   |
| Water Temp 100°-260°F 8' Capillary Length, w/light & 1/2" bushing                   | 114397        | 114398        | 114399        | 114394         | 114395         | 114396         | Included                   |
| Water Temp 100°-260°F 12' Capillary Length, w/light & 1/2" bushing                  | 114563        | 114564        | 114565        | 114560         | 114561         | 114562         | Included                   |
| Note: See adaptor bushings/fittings for other than 1/2" NPT applications            |               |               |               |                |                |                | See Accessories            |
| <b>OIL TEMPERATURE MECHANICAL GAUGE</b>   | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>OIL TEMP MECH.</b>      |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                             | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>                 |
| Oil Tank Temp, 140°-320°F 2' Capillary, w/light & 1/2" bushing                      |               |               |               |                | 116306         |                | Included                   |
| Oil Temp, 60°-160°C 1.8m Capillary, w/light & 1/2" bushing                          |               |               |               | 114345         | 114346         | 114347         | Included                   |
| Oil Temp, 140°-320°F 6' Capillary, w/light & 1/2" bushing                           | 114569        | 114570        | 114571        | 114566         | 114567         | 114568         | Included                   |
| Oil Temp, 140°-320°F 8' Capillary, w/light & 1/2" bushing                           | 116303        | 116304        | 116305        | 116300         | 116301         | 116302         | Included                   |
| Oil Temp, 140°-320°F 12' Capillary, w/light & 1/2" bushing                          | 114575        | 114576        | 114577        | 114572         | 114573         | 114574         | Included                   |
| Note: See adaptor bushings/fittings for other than 1/2" NPT applications            |               |               |               |                |                |                | See Accessories            |
| <b>TRANSMISSION TEMPERATURE MECHANICAL GAUGE</b>                                    | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-5/8"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>2-1/16"</b> | <b>TRANS TEMP MECH</b>     |
| <b>2-1/16" &amp; 2-5/8" 270 Degree Sweep Mechanical</b>                             | <b>Black</b>  | <b>Silver</b> | <b>White</b>  | <b>Black</b>   | <b>Silver</b>  | <b>White</b>   | <b>Kit</b>                 |
| Trans Temp 140°-320°F 9' Capillary, w/light & 1/2" bushing                          | 114581        | 114582        | 114583        | 14578          | 114579         | 114580         | Included                   |
| Note: See adaptor bushings/fittings for other than 1/2" NPT applications            |               |               |               |                |                |                | See Accessories            |

# QUICK REFERENCE: STREET PERFORMANCE

| <b>Street Performance</b>                                 |                                 |              |                                   |                       |                    |
|---|---------------------------------|--------------|-----------------------------------|-----------------------|--------------------|
|   | <b>5" Tachs &amp; Speedos</b>   |              | <b>3-3/8" Tachs &amp; Speedos</b> |                       | <b>Sender/Kit</b>  |
| <b>5" &amp; 3-3/8" Deluxe Tachometers</b>                 | <b>Black</b>                    | <b>White</b> | <b>Black</b>                      | <b>White</b>          | <b>If Required</b> |
| 10000 PRM, Elec, Gas/Ign, SW Block Logo                   | 82699                           |              |                                   |                       |                    |
| 10000 RPM, Elec, Gas/Ign, Wings Logo                      | 82849                           | 82847        |                                   |                       |                    |
| 9000 RPM, Mech, .5:0                                      |                                 |              | 535AH-D                           |                       |                    |
| 8000 RPM, Elec, Gas/Ign, 4, 8, 12 Cyl, 20 Pole            |                                 |              | 82163                             |                       |                    |
| 8000 RPM, Elec, Gas/Ign, 4, 6, 8 Cyl, 12 Pole             |                                 |              | 82170                             |                       |                    |
| 6000 RPM, Elec, Gas/Ign, HM, 4, 6, 8 Cyl, 12 Pole         |                                 |              | 82162                             |                       |                    |
| 6000 RPM, Elec, Gas/Ign, 4, 6, 8 Cyl                      |                                 |              | 82162B                            |                       |                    |
| 0-80 MPH, Mech, Odo, Dual Scale                           |                                 |              | 82692                             |                       |                    |
| 5-85 MPH, Elec, Odo, Program, Dual Scale                  |                                 |              | 82637                             |                       |                    |
| 5-85 MPH, Mech, Odo, Dual Scale                           |                                 |              | 82677                             |                       |                    |
| 0-120 MPH, Elec, Odo, Program                             |                                 |              | 82896                             |                       | 82527 or 82646     |
| 0-140 KPH, Elec, Odo, Prog, Metric, Dual Scale            |                                 |              | 82656                             |                       | 114787 or 82646    |
| 0-140 KPH, Mech, Odo, Metric                              |                                 |              | 82697                             |                       |                    |
| 0-160 MPH, Elec, Odo, Program, SW Logo                    |                                 | 82898        |                                   |                       | 114787 or 82646    |
| 0-160 MPH, Mech, Odo                                      |                                 |              | 550BP-D                           |                       |                    |
| 0-160 MPH, Elec, Odo, Wings Logo                          | 82848                           | 82846        |                                   |                       | 114787 or 82646    |
| 0-160 MPH, Elec, Odo, Program, SW Block Logo              | 82698                           |              |                                   |                       | 114787 or 82646    |
| 0-180 MPH Speed, Mech, Odo, Counter Clockwise             |                                 |              | 550ABE                            |                       | 411335-D           |
| <b>3-3/8" Heavy Duty Tachometers &amp; Speedometers</b>   | <b>5" Tachs &amp; Speedos</b>   |              | <b>3-3/8" Tachs &amp; Speedos</b> |                       | <b>Sender/kKit</b> |
|   | <b>Black</b>                    | <b>White</b> | <b>Black</b>                      | <b>White</b>          | <b>If Required</b> |
| 3500 RPM, Elec, Dsl, .5, 1, 1.5, 2, Hall Eff              |                                 |              | 82619                             |                       |                    |
| 3500 RPM, Elec, Dsl, HM, Altnr                            |                                 |              | 82621                             |                       |                    |
| 3500 RPM, Elec, Dsl, .5, 1, 1.5, 2, Hall Eff, Altnr       |                                 |              | 82640                             |                       |                    |
| 3500 RPM, Elec, Dsl, .5 1 1.5 2, Mag, Flywheel            |                                 |              | 82641                             |                       |                    |
| 6000 RPM, Elec, Gas/Ign, 4, 6, 8 Cyl                      |                                 |              | 82164B                            |                       |                    |
| 8000 RPM, Tach, Elec, Gas/Ign, 4, 6, 8 Cyl                |                                 |              | 82170-1                           |                       |                    |
| 8000 RPM, Tach, Elec, Gas/Ign, 4, 6, 8 Cyl, Imprvd Filter |                                 |              | 82171B                            |                       |                    |
| 8000 RPM, Elec, Gas/Ign, 4, 8, 12 Cyl                     |                                 |              | 82165                             |                       |                    |
| 9000 RPM, Mech, .5:1                                      |                                 |              | 535AK-D                           |                       |                    |
| 5-85 MPH, Elec, Odo, Program, Sq Wave                     |                                 |              | 82604                             |                       |                    |
| 5-85 MPH, Elec, Odo, Program                              |                                 |              | 82642                             |                       | 114787 or 82646    |
| 0-160 MPH, Mech, Odo                                      |                                 |              | 550HH-D                           |                       |                    |
| <b>3-3/8" Wings Tachometers &amp; Speedometers</b>        | <b>3-3/8" Tachs and Speedos</b> |              |                                   |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>                    | <b>White</b> | <b>Beige</b>                      | <b>Silver</b>         | <b>If Required</b> |
| 3500 RPM, Elec, Dsl, .5, 1, 1.5, 2, Hall Eff, Altnr       | 82672                           | 82671        |                                   |                       |                    |
| 3500 RPM, Elec, Dsl, .5, 1, 1.5, 2, Mag, Flywheel         | 82674                           | 82673        |                                   |                       |                    |
| 8000 RPM, Elec, Gas/Ign, 4, 6, 8, Cyl                     | 82660                           | 82659        | 82613                             |                       |                    |
| 8000 RPM, Elec, Gas/Ign, 4, 6, 8, Cyl, Gld Bez            |                                 |              | 82608                             | 82614                 |                    |
| 0-80 MPH, Mech, Odo                                       | 82666                           | 82665        |                                   |                       |                    |
| 0-120 MPH, Elec, Odo, Program                             | 82670                           | 82669        |                                   |                       | 82527 or 82646     |
| 0-160 MPH, Elec, Odo, Program                             | 82662                           | 82661        |                                   |                       | 114787 or 82646    |
| 0-160 MPH, Mech, Odo                                      | 82664                           | 82663        |                                   |                       |                    |
| 0-160 MPH, Elec, Odo, Program                             |                                 |              | 82612                             | 82611                 | 114787 or 82646    |
| 0-160 MPH, Elec, Odo, Program, Gld Bez                    |                                 |              | 82607                             |                       | 114787 or 82646    |
| <b>3-3/8" Power Series Tachometers &amp; Speedometers</b> | <b>3-3/8" Tachs and Speedos</b> |              |                                   |                       | <b>Sender/Kit</b>  |
|   | <b>Titanium Ring</b>            |              | <b>Burgundy Ring</b>              | <b>Blue/Gray Ring</b> | <b>If Required</b> |
| 8000 RPM, Elec, Gas/Ign, 4, 6, 8 Cyl                      | 82837                           |              | 82845                             | 82838                 |                    |
| 0-160 MPH, Elec   | 82840                           |              | 82839                             | 82841                 | 114787 or 82646    |

# QUICK REFERENCE: STREET PERFORMANCE

| 3" Hand Held Tach                                 | 3" Hand Held Tach |        | Sender/Kit        |
|---|-------------------|--------|-------------------|
|   | Black             |        | If Required       |
| 4000 RPM Handheld, 4" Long                        | 82682             |        |                   |
| 2-1/16" & 2-5/8" Deluxe Oil Pressure Gauges       | 2-1/16"           | 2-5/8" | Sender/Kit        |
|   | Black             |        | If Required       |
| Oil Pressure, Elec, 0-80psi                       | 82304             |        | 279A              |
| Oil Pressure, Elec, 0-100psi                      | 82305             |        | 114875            |
| Oil Pressure, Elec, 0-100psi, Metric              | 82387             |        | 114875            |
| Oil Pressure, Elec, 0-100psi, Mrn                 | 82116             |        | 114875            |
| Oil Pressure, Mech, 5-80psi                       | 82322             |        | 114840/114841     |
| Oil Pressure, Mech, 5-100psi                      | 82323             | 82406  | 114840/114841     |
| Oil Pressure, Mech, 10-200psi                     | 82324             |        | 114840/114841     |
| Oil Pressure, Mech, 10-100psi                     |                   | 82407  | 114840/114841     |
| 2-1/16" & 2-5/8" Deluxe Fuel Pressure Gauges      | 2-1/16"           | 2-5/8" | Sender/Kit        |
|   | Black             |        | If Required       |
| Fuel Pressure, Elec, 0-16psi                      | 82333             |        | 114874            |
| Fuel Pressure, Mech, 1-10psi                      | 82319             |        | See accessories   |
| Fuel Pressure, Mech, 1-15psi                      |                   | 82405  | See accessories   |
| Fuel Pressure, Mech, 2-30psi                      | 82320             |        | See accessories   |
| Fuel Pressure, Mech, 10-200psi                    | 82325             |        | See accessories   |
| 2-1/16" & 2-5/8" Deluxe Air Pressure Gauges       | 2-1/16"           | 2-5/8" | Sender/Kit        |
|   | Black             |        | If Required       |
| Air Pressure, Elec, 0-150psi, Metric              | 82388             |        | 279C              |
| Air Pressure, Elec, 0-150psi                      | 82346             |        | 279C              |
| Air Pressure, Mech, 10-150psi                     | 82329             |        | 114840/114841     |
| Air Pressure, Mech, 10-150psi                     | 82350             |        | 114840/114841     |
| Air Pressure, Mech, 10-150psi, Metric             | 82393             |        | 114840/114841     |
| Air Pressure, Mech, 10-100psi                     |                   | 82408  | 114840/114841     |
| Dual-Air Pressure, Mech, 10-150psi                | 82332             |        | 114840/114841     |
| 2-1/16" & 2-5/8" Deluxe Pressure Gauges           | 2-1/16"           | 2-5/8" | Sender/Kit        |
|   | Black             |        | If Required       |
| 2-1/16" Gauge, Press, Mech, DLX, 5-100psi, Metric | 82392             |        | 114840/114841     |
| 2-1/16" & 2-5/8" Deluxe Boost-Vac/Boost Gauges    | 2-1/16"           | 2-5/8" | Sender/Kit        |
|   | Black             |        | If Required       |
| Boost Press, Manif, Mech, 2-30psi                 | 82321             |        | 114840/114841     |
| Boost, Mech, 0-30/0-15, Red Pointer               | 82340             |        | 114840/114841     |
| 2-1/16" & 2-5/8" Deluxe Vacuum Gauges             | 2-1/16"           | 2-5/8" | Sender/Kit        |
|   | Black             |        | If Required       |
| Vacuum, Mech, 0-30Hg                              | 82328             |        | 114840/114841     |
| Vacuum, Mech, 0-30Hg                              |                   | 82411  | 60" Tube Included |
| 2-1/16" & 2-5/8" Deluxe Fuel Level Gauges         | 2-1/16"           | 2-5/8" | Sender/Kit        |
|   | Black             |        | If Required       |
| Fuel Level, Elec, 240Ohm                          | 82303             |        | 114876            |
| Fuel Level, Elec, 730hm                           | 82342             |        | See accessories   |
| Fuel Level, Elec, 900hm                           | 82341             |        | 114876            |
| Fuel Level, Elec, 240Ohm, Pos Gnd                 | 82353             |        | 114876            |
| Fuel Level, Elec, 240Ohm, Mrn                     | 82111             |        | 114876            |
| Fuel Level, Elec, 240Ohm                          | 82386             | 82413  | 114876            |



# QUICK REFERENCE: STREET PERFORMANCE

| <b>2-1/16" &amp; 2-5/8" Deluxe Oil Temperature Gauges</b>   | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>  |
|---|----------------|---------------|--------------------|
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b> |
| Oil Temp, Elec, 100-280F, Mrn                               | 82115          |               | 280ED-F            |
| Oil Temp, Elec, 140-320F                                    | 82308          |               | 280EE-F            |
| Oil Temp, Mech, 140-325F                                    | 82327-144      |               | 144" Tube Included |
| Oil Temp, Mech, 140-325F                                    | 82327-216      |               | 216" Tube Included |
| Oil Temp, Mech, 140-325F                                    | 82327-60       | 82410-60      | 60" Tube Included  |
| Oil Temp, Mech, 140-325F                                    | 82327-72       | 82410-72      | 72" Tube Included  |
| Oil Temp, Mech, 140-325F                                    | 82327-96       | 82410-96      | 96" Tube Included  |
| Oil Temp, Elec, 140-320F, Pos Gnd                           | 82352          |               | 280EE-F            |
| Oil Temp, Elec, 140-320F, Metric                            | 82390          |               | 280EE-F            |
| Oil Temp, Mech, 140-320F, Metric                            | 82395-144      |               | 144" Tube Included |
| Oil Temp, Mech, 140-320F, Metric                            | 82395-72       |               | 72" Tube Included  |
| Oil Temp, Mech, 140-320F, Metric                            | 82395-96       |               | 96" Tube Included  |
| <b>2-1/16" &amp; 2-5/8" Deluxe Water Temperature Gauges</b> | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>  |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b> |
| Water Temp, Elec, 100-240F                                  | 82306          |               | 280EA              |
| Water Temp, Elec, 100-240F, Mrn                             | 82114          |               | 280EA              |
| Water Temp, Elec, 100-280F                                  | 82307          |               | 280ED-F            |
| Water Temp, Mech, 100-265F                                  | 82326-48       |               | 48" Tube Included  |
| Water Temp, Mech, 100-265F                                  | 82326-72       |               | 72" Tube Included  |
| Water Temp, Mech, 100-265F                                  | 82326-96       |               | 96" Tube Included  |
| Water Temp, Mech 100-265F                                   | 82326-144      |               | 144" Tube Included |
| Water Temp, Elec, 100-280F, Pos Gnd                         | 82351          |               | 280EA              |
| Water Temp, Mech, 100-265F                                  | 82409-144      |               | 144" Tube Included |
| Water Temp, Mech, 100-265F                                  | 82409-60       |               | 60" Tube Included  |
| Water Temp, Mech, 100-265F                                  | 82409-72       |               | 72" Tube Included  |
| Water Temp, Mech, 100-265F, Metric                          | 82394-144      |               | 144" Tube Included |
| Water Temp, Mech, 100-265F, Metric                          | 82394-72       |               | 72" Tube Included  |
| Water Temp, Mech, 100-265F, Metric                          | 82394-96       |               | 60" Tube Included  |
| Water Temp, Elec, 100-240F, Metric                          | 82389          |               | 280EC              |
| <b>2-1/16" &amp; 2-5/8" Deluxe Voltmeter Gauges</b>         | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>  |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b> |
| Voltmeter, Elec, 10-16V                                     | 82309          |               |                    |
| Voltmeter, Elec, 10-16V, Mrn                                | 82112          |               |                    |
| Voltmeter, Elec, 10-16V                                     | 82391          |               |                    |
| Voltmeter, Elec, 20-32V                                     | 82347          |               |                    |
| <b>2-1/16" &amp; 2-5/8" Deluxe Ammeter Gauges</b>           | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>  |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b> |
| 2-1/16" Gauge, Amm, Elec, DLX, 30-0-30                      | 82310          |               | Internal Shunt     |
| 2-1/16" Gauge, Amm, Elec, DLX, 60-0-60                      | 82311          |               | Internal Shunt     |
| 2-5/8" Gauge, Amm, Elec, DLX, 60-0-60                       | 82404          |               | Internal Shunt     |
| 2-1/16" Gauge, Amm, Elec, DLX, 100-0-100                    | 82313          |               | Internal Shunt     |
| 2-1/16" Gauge, Amm, Elec, DLX, 100-0-100                    | 82343          |               | Requires Shunt     |
| <b>2-1/16" &amp; 2-5/8" Deluxe Pyrometer Gauges</b>         | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>  |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b> |
| Pyrometer, Elec, 300-1500F                                  | 82335          |               | See accessories    |
| <b>2-1/16" &amp; 2-5/8" Deluxe Trans Temperature Gauges</b> | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>  |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b> |
| Trans Oil Temperature, Elec, 150-350F                       | 82344          |               | 280EE-F            |

# QUICK REFERENCE: STREET PERFORMANCE

|   |                |               |                       |
|---|----------------|---------------|-----------------------|
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Oil Pressure Gauges</b>      | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Oil Pressure, Elec, 0-80psi                                     | 284AE          |               | 279A                  |
| Oil Pressure, Elec, 0-100psi                                    | 284L           |               | 114875                |
| Oil Pressure, Mech, 5-100psi                                    | 284D           |               | 114840/114841         |
| Oil Pressure, Mech, 10-200psi                                   | 284P           |               | 114840/114841         |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Fuel Pressure Gauges</b>     | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Fuel Pressure, Mech, 0-15psi                                    | 284E           |               | See accessories       |
| Fuel Pressure, Elec, 0-16psi                                    | 284AM          |               | See accessories       |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Air Pressure Gauges</b>      | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Air Pressure, Elec, 0-150psi                                    | 284T           |               | 279C                  |
| Air Pressure, Mech, 5-100psi                                    | 284N           |               | 114840/114841         |
| Dual-Air Pressure, Mech, 10-150psi                              | 82331          |               | 114840/114841         |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Boost Gauges</b>             | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Boost, Mech, 0-30/0-15, Red Pointer                             | 284BF          |               | 114840/114841         |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Vacuum Gauges</b>            | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Vacuum, Fuel Econ, Mech, HD, 0-30Hg                             | 82301          |               | T-fit & Hose Included |
| Vacuum, Mech, 0-30Hg  | 284AH          |               | 114842                |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Fuel Level Gauges</b>        | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Fuel Level, Elec, 240Ohm  | 284M           |               | 114876                |
| Fuel Level, Elec, 730hm   | 284BR          |               | N/A                   |
| Fuel Level, Elec, 900hm   | 284BS          |               | See accessories       |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Oil Temperature Gauges</b>   | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Oil Temp, Elec, 140-320F  | 284K           |               | 280EE-F               |
| Oil Temp, Mech, 140-325F  | 284C144        |               | 144" Tube Included    |
| Oil Temp, Mech, 140-325F  | 284C36         |               | 36" Tube Included     |
| Oil Temp, Mech, 140-325F  | 284C72         |               | 72" Tube Included     |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Water Temperature Gauges</b> | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Water Temp, Mech, 100-265F                                      | 284B144        |               | 144" Tube Included    |
| Water Temp, Mech, 100-265F                                      | 284B36         |               | 36" Tube Included     |
| Water Temp, Mech, 100-265F                                      | 284B72         |               | 72" Tube Included     |
| Water Temp, Elec, 100-230F                                      | 284AF          |               | 280EC                 |
| Water Temp, Elec, 100-280F                                      | 284J           |               | 280ED-F               |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Voltmeter Gauges</b>         | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Voltmeter, Elec, 10-16V   | 284H           |               |                       |
| Voltmeter, Elec, 20-32V   | 284AJ          |               |                       |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Ammeter Gauges</b>           | <b>2-1/16"</b> | <b>2-5/8"</b> | <b>Sender/Kit</b>     |
|   | <b>Black</b>   | <b>Black</b>  | <b>If Required</b>    |
| Ammeter, Elec, 60-0-60,   | 284A           |               | Internal Shunt        |
| Ammeter, Elec, 100-0-100  | 284AA          |               | Requires Shunt        |
| Ammeter, Elec, 150-0-150  | 284AD          |               | Requires Shunt        |

# QUICK REFERENCE: STREET PERFORMANCE

|   |                      |                |                      |                       |                    |
|---|----------------------|----------------|----------------------|-----------------------|--------------------|
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Pyrometer Gauges</b>         | <b>2-1/16"</b>       |                | <b>2-5/8"</b>        |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         |                | <b>Black</b>         |                       | <b>If Required</b> |
| Pyrometer, Elec, 300-1500F                                      | 82334                |                |                      |                       | See accessories    |
| <b>2-1/16" &amp; 2-5/8" Heavy Duty Trans Temperature Gauges</b> | <b>2-1/16"</b>       |                | <b>2-5/8"</b>        |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         |                | <b>Black</b>         |                       | <b>If Required</b> |
| Trans Oil Temp, Mech, 20-300psi                                 | 284R                 |                |                      |                       | 114840/114841      |
| Trans Oil Temp, Mech, 25-400psi                                 | 284S                 |                |                      |                       | 114840/114841      |
| <b>2-1/16" Wings Oil Pressure Gauges</b>                        | <b>2-1/16"</b>       | <b>2-1/16"</b> | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>   | <b>Silver</b>        | <b>Beige</b>          | <b>If Required</b> |
| Oil Pressure, Elec, 0-80psi                                     | 82474                | 82473          |                      |                       | 279A               |
| Oil Pressure, Mech, 5-80psi                                     | 82476                | 82475          |                      |                       | 114840/114841      |
| Oil Pressure, Elec, 0-80psi                                     |                      |                | 82497                | 82530                 | 279A               |
| Oil Pressure, Elec, 0-80psi, Gld Bezel                          |                      |                |                      | 82520                 | 279A               |
| <b>2-1/16" Wings Air Pressure Gauges</b>                        | <b>2-1/16"</b>       |                | <b>2-1/16"</b>       |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         |                | <b>White</b>         |                       | <b>If Required</b> |
| Air Pressure, Mech, 10-150psi                                   | 82488                |                | 82487                |                       | 114840/114841      |
| <b>2-1/16" Wings Boost Gauges</b>                               | <b>2-1/16"</b>       |                | <b>2-1/16"</b>       |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         |                | <b>White</b>         |                       | <b>If Required</b> |
| Boost, Mech, 0-30/0-40  | 82492                |                | 82491                |                       | 114840/114841      |
| <b>2-1/16" Wings Fuel Level Gauges</b>                          | <b>2-1/16"</b>       | <b>2-1/16"</b> | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>   | <b>Silver</b>        | <b>Beige</b>          | <b>If Required</b> |
| Fuel Level, Elec, 90Ohm   | 82494                | 82493          |                      |                       | See accessories    |
| Fuel Level, Elec, 240Ohm  | 82472                | 82471          | 82499                | 82532                 | 114876             |
| Fuel Level, Elec, 240Ohm, Gld Bezel                             |                      |                |                      | 82522                 | 114876             |
| Fuel Level, Elec, 730Ohm  | 82496                | 82495          |                      |                       | N/A                |
| <b>2-1/16" Wings Oil Temperature Gauges</b>                     | <b>2-1/16"</b>       |                | <b>2-1/16"</b>       |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         |                | <b>White</b>         |                       | <b>If Required</b> |
| Oil Temperature, Elec, 140-320F                                 | 82490                |                | 82489                |                       | 280EE-F            |
| <b>2-1/16" Wings Water Temperature Gauges</b>                   | <b>2-1/16"</b>       | <b>2-1/16"</b> | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>   | <b>Silver</b>        | <b>Beige</b>          | <b>If Required</b> |
| Water Temp, Elec, 100-240F                                      | 82478                | 82477          | 82498                | 82531                 | 280EC              |
| Water Temp, Mech, 100-265F                                      | 82480-144            | 82479-144      |                      |                       | 144" Tube Included |
| Water Temp, Mech, 100-265F                                      | 82480-72             | 82479-72       |                      |                       | 72" Tube Included  |
| Water Temp, Mech, 100-265F                                      | 82480-96             | 82479-96       |                      |                       | 96" Tube Included  |
| Water Temp, Elec, 100-240F, 2-1/16", Gld Bezel                  |                      |                |                      | 82521                 | 280EC              |
| <b>2-1/16" Wings Voltmeters Gauges</b>                          | <b>2-1/16"</b>       | <b>2-1/16"</b> | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>   | <b>Silver</b>        | <b>Beige</b>          | <b>If Required</b> |
| Voltmeter, Elec, 10-16V   | 82482                | 82481          | 82610                | 82533                 |                    |
| Voltmeter, Elec, 10-16V, Gld Bezel                              |                      |                |                      | 82523                 |                    |
| <b>2-1/16" Wings Pyrometers Gauges</b>                          | <b>2-1/16"</b>       | <b>2-1/16"</b> | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>   | <b>Silver</b>        | <b>Beige</b>          | <b>If Required</b> |
| Pyrometer, Elec, 300-1500F                                      | 82486                | 82485          |                      |                       | See accessories    |
| <b>2-1/16" Wings Air Suspension Gauges</b>                      | <b>2-1/16"</b>       |                | <b>2-1/16"</b>       |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         |                | <b>White</b>         |                       | <b>If Required</b> |
| Air Suspension, Mech, 2-100psi                                  | 82484                |                | 82483                |                       | 114840/114841      |
| <b>2-1/16" Power Series Oil Pressure Gauges</b>                 | <b>2-1/16"</b>       |                | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>  |
|   | <b>Titanium Ring</b> |                | <b>Burgundy Ring</b> | <b>Blue/Gray Ring</b> | <b>If Required</b> |
| Oil Pressure, Elec, 0-80PSI                                     | 82756                |                | 82752                | 82760                 | 279A               |
| Oil Pressure, Mech, 0-80PSI                                     | 82759                |                | 82755                | 82763                 | 279A               |

# QUICK REFERENCE: STREET PERFORMANCE

|   |                      |                      |                       |                    |
|---|----------------------|----------------------|-----------------------|--------------------|
| <b>2-1/16" Power Series Fuel Level Gauges</b>                             | <b>2-1/16"</b>       | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>  |
|   | <b>Titanium Ring</b> | <b>Burgundy Ring</b> | <b>Blue/Gray Ring</b> | <b>If Required</b> |
| Fuel Level, Elec, 240Ohm  | 82516                | 82515                | 82517                 | 114876             |
| <b>2-1/16" Power Series Water Temperature Gauges</b>                      | <b>2-1/16"</b>       | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>  |
|   | <b>Titanium Ring</b> | <b>Burgundy Ring</b> | <b>Blue/Gray Ring</b> | <b>If Required</b> |
| Water Temp Elec, 100-240F   | 82757                | 82753                | 82761                 | 280EC              |
| Water Temp, Mech, 100-265F  | 82843                | 82842                | 82844                 | 72" Tube Included  |
| <b>2-1/16" Power Series Voltmeter Gauges</b>                              | <b>2-1/16"</b>       | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>  |
|   | <b>Titanium Ring</b> | <b>Burgundy Ring</b> | <b>Blue/Gray Ring</b> | <b>If Required</b> |
| Voltmeter, Elec, 10-16V   | 82758                | 82754                | 82762                 |                    |
| <b>2-1/16" Standard Fuel Level Gauges</b>                                 | <b>2-1/32"</b>       | <b>2-1/32"</b>       |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>         |                       | <b>If Required</b> |
| Fuel Level, Elec, 240Ohm  | 82211                |                      |                       | 114876             |
| <b>2-1/16" Standard Water Temperature Gauges</b>                          | <b>2-1/32"</b>       | <b>2-1/32"</b>       |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>         |                       | <b>If Required</b> |
| Water Temp, Mech, 100-250F, No Ltng                                       | 82210-144            |                      |                       | 144" Tube Included |
| Water Temp, Mech, 100-250F, No Ltng                                       | 82210-36             |                      |                       | 36" Tube Included  |
| Water Temp, Mech, 100-250F, No Ltng                                       | 82210-48             |                      |                       | 48" Tube Included  |
| Water Temp, Mech, 100-250F, No Ltng                                       | 82210-60             |                      |                       | 60" Tube Included  |
| Water Temp, Mech, 100-250F, No Ltng                                       | 82210-72             |                      |                       | 72" Tube Included  |
| <b>2-1/16" Standard Pressure Gauges</b>                                   | <b>2-1/32"</b>       | <b>2-1/32"</b>       |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>         |                       | <b>If Required</b> |
| Pressure, Mech, 0-50psi, no lighting                                      | 82207                |                      |                       | 114840/114841      |
| Pressure, Mech, 5-80psi, no lighting                                      | 82208                |                      |                       | 114840/114841      |
| Pressure, Mech, 5-100psi, no lighting                                     | 82209                |                      |                       | 114840/114841      |
| <b>2-1/16" Standard Ammeter Gauges</b>                                    | <b>2-1/32"</b>       | <b>2-1/32"</b>       |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>         |                       | <b>If Required</b> |
| Ammeter, Elec, 30-0-30, No Lighting                                       | 82200                |                      |                       | Internal Shunt     |
| Ammeter, Elec, 20-0-20, No Lighting                                       | 82201                |                      |                       | Internal Shunt     |
| Ammeter, Elec, 60-0-60, No Lighting                                       | 82202                |                      |                       | Internal Shunt     |
| <b>Six Gauge Box Kit ~ Deluxe</b>   | <b>2-1/16"</b>       | <b>2-5/8"</b>        |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>Black</b>         |                       | <b>If Required</b> |
| 6-Ga Kit Mech Speed, Elec Tach  | 82218                |                      |                       | Senders Included   |
| <b>Three Gauge Box Kit ~ Deluxe</b>                                       | <b>2-1/16"</b>       | <b>2-5/8"</b>        |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>Black</b>         |                       | <b>If Required</b> |
| 3-Ga Panel, Mech, Voltmeter, Oil Pressure, Water Temp                     | 873134               |                      |                       | Tube kit included  |
| 3-Ga Panel, Elec, Voltmeter, Oil Pressure, Water Temp                     | 873136               |                      |                       | Senders Included   |
| 3-Ga Panel, Mech- Fuel Pressure, Oil Pressure, Water Temp                 |                      | 82221                |                       | Tube kit included  |
| <b>Two Gauge Box Kit ~ Deluxe</b>   | <b>2-1/16"</b>       | <b>2-5/8"</b>        |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>Black</b>         |                       | <b>If Required</b> |
| 2-Ga Panel, Mech, Oil Pressure, Temperature                               | 873135               |                      |                       | Tube kit included  |
| 2-Ga Panel, Elec, Oil Pressure, Temperature                               | 873137               |                      |                       | Senders Included   |
| <b>Six Gauge Box Kit ~ Wings</b>  | <b>2-1/16"</b>       | <b>2-1/16"</b>       |                       | <b>Sender/Kit</b>  |
|   | <b>Black</b>         | <b>White</b>         |                       | <b>If Required</b> |
| 6-Ga, Elec, Tach, Speedo, Volt, Fuel, Water Temp, Oil Press, Gas/Ign Appl | 82223                | 82222                |                       | Senders Included   |
| 6-Ga, Mech, Tach, Speedo, Volt, Fuel, Water Temp, Oil Press, Gas/Ign Appl | 82225                | 82224                |                       | Senders Included   |

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|   |                            |                |                      |                       |                        |
|---|----------------------------|----------------|----------------------|-----------------------|------------------------|
| <b>Five Gauge Box Kit ~ Wings</b>   | <b>2-1/16"</b>             | <b>2-1/16"</b> | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>      |
|   | <b>Black</b>               | <b>White</b>   | <b>Silver</b>        | <b>Beige</b>          | <b>If Required</b>     |
| 5-Ga, Mech, Speedo, Volt, Fuel, Water Temp, Oil Pressure                  | 82227                      | 82226          | 82244                | 82243                 | Senders Included       |
| 5-Ga, Elec, Speedo, Volt, Fuel, Water Temp, Oil Pressure                  | 82229                      | 82228          |                      |                       | Senders Included       |
| 5-Ga, Elec, Speedo, Voltmeter, Fuel, Water Temp, Oil Pressure, Gld Bezels |                            |                |                      | 82230                 | Senders Included       |
| <b>Six Gauge Box Kit ~ Wings Diesel Application</b>                       | <b>2-1/16"</b>             |                | <b>2-1/16"</b>       |                       | <b>Sender/Kit</b>      |
|   | <b>Black</b>               |                | <b>White</b>         |                       | <b>If Required</b>     |
| 6-Ga, Mech, Tach, Speedo, Volt, Fuel, Water Temp, Oil Press               | 82232                      |                | 82233                |                       | Senders Included       |
| <b>Six Gauge Box Kit ~ Power Series</b>                                   | <b>2-1/16"</b>             |                | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>      |
|   | <b>Titanium Ring</b>       |                | <b>Burgundy Ring</b> | <b>Blue/Gray Ring</b> | <b>If Required</b>     |
| 6-Ga, Elec, Tach, Speedo, Volt, Fuel, Water Temp, Oil Press, Gas/Ign Appl | 82246                      |                | 82245                | 82247                 | Senders Included       |
| 6-Ga, Mech, Tach, Speedo, Volt, Fuel, Water Temp, Oil Press, Gas/Ign Appl | 82249                      |                | 82248                | 82250                 | Senders Included       |
| <b>Five Gauge Box Kit ~ Power Series</b>                                  | <b>2-1/16"</b>             |                | <b>2-1/16"</b>       | <b>2-1/16"</b>        | <b>Sender/Kit</b>      |
|   | <b>Titanium Ring</b>       |                | <b>Burgundy Ring</b> | <b>Blue/Gray Ring</b> | <b>If Required</b>     |
| 5-Ga, Elec, Speedo, Volt, Fuel, Water Temp, Oil Press                     | 82252                      |                | 82251                | 82253                 | Senders Included       |
| 5-Ga, Mech, Speedo, Volt, Fuel, Water Temp, Oil Press                     | 82255                      |                | 82254                | 82256                 | Senders Included       |
| <b>One Gauge Chrome Panel Kit ~ Standard</b>                              | <b>2-1/16"</b>             |                | <b>2-5/8"</b>        |                       | <b>Sender/Kit</b>      |
|   | <b>Black</b>               |                | <b>Black</b>         |                       | <b>If Required</b>     |
| Panel, Ammeter, Elec, 60-0-60   | 82212B                     |                |                      |                       |                        |
| Panel, Oil Pressure, Mech, 0-100psi                                       | 82213B                     |                |                      |                       | 114840/114841          |
| Panel, Temperature, Mech, 100-250F  | 82214B72                   |                |                      |                       | 72" Tube Included      |
| <b>Two Gauge Chrome Panel Kit ~ Standard</b>                              | <b>2-1/16"</b>             |                | <b>2-5/8"</b>        |                       | <b>Sender/Kit</b>      |
|   | <b>Black</b>               |                | <b>Black</b>         |                       | <b>If Required</b>     |
| Panel, Ammeter, Oil Pressure, 60-0-60/100psi                              | 82215B                     |                |                      |                       | 114840/114841          |
| Panel, Oil Press, Temperature, 100psi/100-250F                            | 82216B                     |                |                      |                       | 72" Tube Included      |
| <b>Three Gauge Chrome Panel Kit ~ Standard</b>                            | <b>2-1/16"</b>             |                | <b>2-5/8"</b>        |                       | <b>Sender/Kit</b>      |
|   | <b>Black</b>               |                | <b>Black</b>         |                       | <b>If Required</b>     |
| Panel, Ammeter, Oil Pressure, Temperature                                 | 82217B                     |                |                      |                       | 114840/114841          |
| <b>Four Gauge Cluster</b>   |                            |                |                      |                       | <b>Sender/Kit</b>      |
|   | <b>5" Clusters</b>         |                |                      |                       | <b>If Required</b>     |
| 4-Ga, 5" Dia, Volt, Fuel Level, Water Temp, Oil Pressure                  | 366ACY                     |                | 366ACY-1             |                       | 114876                 |
| 4-Ga, 5" Dia, Volt, Fuel Level, Water Temp, Oil Pressure, Wings Logo      | 366ADH                     |                |                      |                       | 114876                 |
| <b>Three Gauge Mini-Panel Cluster</b>                                     | <b>Panel</b>               |                |                      |                       | <b>Sender/Kit</b>      |
|   | <b>4-1/8"w / 2"h / 2"d</b> |                |                      |                       | <b>If Required</b>     |
| 3-Ga Voltmeter, Water Temp, Oil Pressure                                  | 82459                      |                |                      |                       | Sdrs & Adptrs Included |
| <b>Fuel Level Senders</b>   | <b>LH</b>                  |                | <b>RH</b>            |                       | <b>Notes</b>           |
| Sdr, Fuel Level, 240 Ohm, Adjustable                                      |                            |                | 114876               |                       |                        |
| Sdr, Fuel Level, 90Ohm, 10-15"  | 439361-F                   |                | 439362-F             |                       | Stud Term              |
| Sdr, Fuel Level, 90Ohm, 15.5-24"  | 439363-D                   |                | 439364-D             |                       | Stud Term              |
| Sdr, Fuel Level, Flange, Gasket, 5 Washers, 5 Screws                      | 366LP-F                    |                |                      |                       |                        |

# QUICK REFERENCE: STREET PERFORMANCE

| Temperature Sender   |          |  |  |  | Notes                     |
|--|----------|--|--|--|---------------------------|
| Sdr, Temp, Kit, 100-240°F, 1/8" NPTF, 5/8" Hex                     | 280EA    |  |  |  | adptrs: 1/4" 3/8" 1/2" PT |
| Sdr, Temp, Kit, 100-230°F, 1/8" NPTF, 5/8" Hex                     | 280EC    |  |  |  | adptrs: 1/4" 3/8" 1/2" PT |
| Sdr, Temp, Kit, 100-280°F, 1/8" NPTF, 5/8" Hex                     | 280ED-F  |  |  |  | adptrs: 1/4" 3/8" 1/2" PT |
| Sdr, Temp, Kit, 140-320°F, 1/8" NPTF, 5/8" Hex                     | 280EE-F  |  |  |  | adptrs: 1/4" 3/8" 1/2" PT |
| Sdr, Temp, 100-280°F, 1/8" NPTF, 5/8" Hex                          | 334H-D   |  |  |  |                           |
| Sdr, Temp, 100-240°F, 1/8" NPTF, 5/8" Hex                          | 362CZ-D  |  |  |  |                           |
| Sdr, Temp, Drain Plug, 1/2-20                                      | 280EH-F  |  |  |  | UNF Threads               |
| Pressure Sender  |          |  |  |  | Notes                     |
| Sdr, Press, 15 psi 1/8" NPTF                                       | 114874   |  |  |  |                           |
| Sdr, Press, 80 psi 1/8" NPTF                                       | 279A     |  |  |  |                           |
| Sdr, Press, 100 psi 1/8" NPTF                                      | 114875   |  |  |  |                           |
| Sdr, Press, 150 psi 1/8" NPTF                                      | 279C     |  |  |  |                           |
| Speed Sensors  |          |  |  |  | Notes                     |
| Sdr, Pulse, Hall Effect, 8 pulses per rev, 7/8"-18                 | 114878   |  |  |  |                           |
| Sdr, Speed, HALL ROTARY  | 82527    |  |  |  |                           |
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# STEWART WARNER



-Frank Kimmel

Seven-Time ARCA Re/Max Series Champion



-Brad Keselowski

#29 Samson Stone Ford F-150 driven by 21 year-old Brad Keselowski in the NASCAR Craftsman Truck Series

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Stewart Warner is an NHRA "Major" Contingency Sponsor posting for Pro Stock & all Sportsman Classes at all national events in 2006. Stewart Warner will bring added visibility for racers to their unique contingency program. Visit [www.NHRA.com](http://www.NHRA.com)



Stewart Warner is the Official instrument contingency sponsor of the ARCA/RE/MAX Series. Stewart Warner looks forward to marketing all ARCA racers including seven-time champion, Frank Kimmel. For exciting news visit [www.ARCARacing.com](http://www.ARCARacing.com)



We are proud to also be the Official instrument contingency sponsor of the ARCA/Lincoln Welders Truck Series. Together with the ARCA RE/MAX Series drivers, Stewart Warner plans to be a fixture in ARCA racing for many years to come. Visit [www.arcaracing.com](http://www.arcaracing.com)



Stewart Warner is pleased to enter our fourth year with NMCA/Pro Fastest Street Car Edselbrock Drag Racing Series. Champions like Vinny Budano, Pat Musi, Jamie Rickman, and other NMCA champions count on Stewart Warner. Visit [www.ProFastestStreetcar.com](http://www.ProFastestStreetcar.com)



With four consecutive champions, Stewart Warner continues as the Official instrument contingency sponsor for 2006 in the USAR Hooters Pro Cup Series. Stewart Warner plans to continue supporting both grass roots and professional racers through a variety of unique contingency programs. Visit [www.usarprocup.com](http://www.usarprocup.com)



Are you competing in Hot Import Night Shows? Stewart Warner is proud to continue supporting the NCCA Judges in 2006. Check out the action at [www.nationalcustomcarassociation.com](http://www.nationalcustomcarassociation.com)



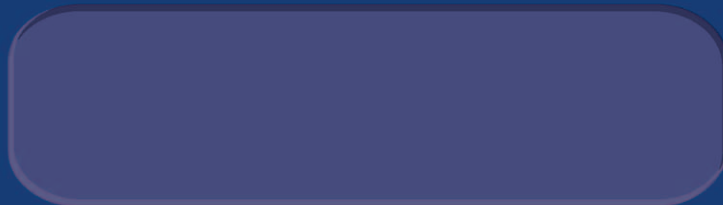
For many years Stewart Warner Wings Collection has been a staple for street rodders. Stewart Warner will sponsor the NSRA's Super Prize Program in 2006 where enthusiasts can enter to win a set of Stewart Warner Gold Wings. For further information about the NSRA visit [www.nsra.com](http://www.nsra.com)



Stewart Warner Performance will serve as contingency sponsor for six IHRA events in 2006 posting both cash and product payout in four classes of competition. Involvement within IHRA drag racing gives Stewart Warner a solid avenue to many grass roots drag racers across the country. Visit [www.ihra.com](http://www.ihra.com) for information on the series.



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