



[www.vdo.com](http://www.vdo.com)

# 2009 Instrumentation Catalog

For the Automotive & Truck Enthusiast

Part #VAMC1008 (Supersedes Part#VPC0903)

**VDO**

Over 150 New  
Part Numbers!

## What's New for 2009

Mobility shapes our life – moving ahead is our passion. Our passion for mobility inspires us to reach new goals, achieve greater progress, and overcome boundaries. Mobility is freedom – and as one of the world's leading suppliers of mobile technologies it is both our vision and our fascination.

VDO employees are united around the globe by a common enthusiasm for state-of-the-art vehicle technologies and technical advancement. An imagination for the

possibilities is just as important to us as experience and focused research and development. That's why experts from the most diverse fields work together within our company.

Our innovative developments continue to serve as proof of the success of this operational model. VDO products for vehicles of all kinds are one example. Our products meet the most demanding requirements while, at the same time, offering maximum driving pleasure.

### **Viewline - a whole new turn on instrumentation**

The new VDO Viewline gauge platform gives you more features and configuration choices than ever before. Integral LEDs provide built-in warning lights and turn indicators. Sharp graphics, along with strong, even backlighting give Viewline gauges excellent readability.



### **Vision - true technological advancement in instrument illumination and installation**

VDO illuminated the instrument's pointer for unmatched readability. Using fiber-optic technology, Vision instruments feature VDO's Trioptic™ through-dial lighting technology for superb nighttime illumination.

#### **Vision Silverstone**

Built on the world class Vision platform, Silverstone offers stunning silver dials and matching plated bezels and brilliant red through-dial lighting.



#### **Vision Chrome**

These instruments feature stylish, bright chrome bezels and offer the same robust platform, accuracy, and dependability as our original Vision black bezel instruments.



### **New Fuel Senders**

Using VDO's reliable and accurate Thick Film technology, VDO fuel senders are now available with composite construction and feature a low-fuel warning contact switch. A perfect match for our new Viewline instruments with built-in warning lights, these senders are included with every Viewline instrument kit!





## The Elegance of Precision

At VDO, we are focused on providing our customers with the best possible instrumentation – a goal that we've pursued since 1920. We continue to work to deliver the functionality, durability, and high quality finish that have earned our products a best-in-class reputation, worldwide. At the same time, we strive to continually pursue innovations that make our instrumentation more efficient, affordable, and useful to the people who own and operate vehicles and equipment that feature our products.

While we are aware of the vital role of our instruments as a human-machine interface and the importance of factors such as ergonomics, cost, and reliability, we haven't neglected aesthetics. Our latest styles include a whole new family of instruments, and 5 exciting new looks.

The Elegance of Precision continues on!

## Table of Contents

Viewline Onyx	2-4
Viewline Ivory	5-7
Viewline Sterling	8-10
Vision Silverstone	11-12
Vision Family	13
Vision Chrome	14-15
Vision	16-18
Cockpit Family	19
Cockpit Royale	20-21
Cockpit	22-24
Cockpit White	25-26
Series 1	27-30
Clocks	31
Mini-Pressure Gauges	32
Oil Pressure Senders and Switches	33
Temperature Senders and Switches	34-35
Fuel Senders	36
Service Parts and Accessories	37-40



# Viewline Onyx

- Classic, easy to read black dial with white graphics
- Surface and flush mount options
- Built in amber LEDs provide 'through dial lighting' with illuminated pointers giving you a true OEM appearance!
- Integrated turn signal, high beam and parking brake indicators in speedometer
- Integrated warning light in each 2 1/16" (52mm) instrument
- Easy to read, large LCD display for odometer, resettable trip odometer and integrated clock
- Spin-Lok™ mounting ring for easy installation
- Simple push-button programmable speedometer
- All instruments use exclusive, VDO patented stepper motors for the utmost in accuracy and reliability



**Silver Bezel**



**Black Bezel**



**Flush Mount Configuration**

Instrument panels not included  
Warning lights are illuminated for visual reference

**Complete Instrument Kits**

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

- All 5 gauge instrument kits include:
- 3 1/8" (80mm) 120mph programmable speedometer with: resettable trip odometer, clock, integrated turnsignals, highbeam and parking brake indicators
  - 2 1/16" (52mm) 80psi oil pressure with warning light
  - 2 1/16" (52mm) 250F temp gauge with warning light
  - 2 1/16" (52mm) fuel gauge with warning light
  - 2 1/16" (52mm) voltmeter with warning light
  - Hall Effect speedometer sender
  - 1/8-27NPT oil pressure sender w/ 6 PSI warning contact
  - 1/2-14NPT temperature sender w/ 230°F warning contact
  - SAE 5 hole flange adjustable fuel sender with low fuel warning contact
  - All instrument connectors & terminals
  - 1/4, 3/8 & 1/2 adapters for pressure sender
  - Fuel sender mounting hardware & gasket
  - All Instructions

<u>Application</u>	<u>Bezel Color</u>	<u>Kit #</u>
GM & Chrysler (w/ threaded speedo sender)	Black Bezel	600 9712
GM & Chrysler (w/ threaded speedo sender)	Chrome Bezel	600 9742
GM & Chrysler (w/ threaded speedo sender)	Flush Mount	600 9702
Ford & Chrysler (w/ push in speedo sender)	Black Bezel	600 97121
Ford & Chrysler (w/ push in speedo sender)	Chrome Bezel	600 97421
Ford & Chrysler (w/ push in speedo sender)	Flush Mount	600 97021

- All 6 gauge instrument kits include:
- 3 1/8" (80mm) 120mph programmable speedometer with: resettable trip odometer, clock, integrated turnsignals, highbeam and parking brake indicators
  - 3 1/8" (80mm) 7,000 RPM tachometer
  - 2 1/16" (52mm) 80psi oil pressure with warning light
  - 2 1/16" (52mm) 250F temp gauge with warning light
  - 2 1/16" (52mm) fuel gauge with warning light
  - 2 1/16" (52mm) voltmeter with warning light
  - Hall Effect speedometer sender
  - 1/8-27NPT oil pressure sender w/ 6 PSI warning contact
  - 1/2-14NPT temperature sender w/ 230°F warning contact
  - SAE 5 hole flange adjustable fuel sender with low fuel warning contact
  - All instrument connectors & terminals
  - 1/4, 3/8 & 1/2 adapters for pressure sender
  - Fuel sender mounting hardware & gasket
  - All Instructions

<u>Application</u>	<u>Bezel Color</u>	<u>Kit #</u>
GM & Chrysler (w/ threaded speedo sender)	Black Bezel	600 97126
GM & Chrysler (w/ threaded speedo sender)	Chrome Bezel	600 97426
GM & Chrysler (w/ threaded speedo sender)	Flush Mount	600 97026
Ford & Chrysler (w/ push in speedo sender)	Black Bezel	600 971216
Ford & Chrysler (w/ push in speedo sender)	Chrome Bezel	600 974216
Ford & Chrysler (w/ push in speedo sender)	Flush Mount	600 970216

**Electronic Speedometer w/ resettable LCD trip odometer, clock, and integrated: turn signals, parking brake and high beam indicator.**

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 3 1/8" (80mm) dia. 12V

<u>Description</u>	<u>Terminal</u>	<u>Black Bezel</u>		<u>Chrome Bezel</u>		<u>Flush Mount</u>	
		<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	Included	437 1326	437 1326B	437 4326	437 4326B	437 0326	437 0326B

**Tachometer**

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with "W" tachometer terminal. 3 1/8" (80mm) dia. 12V

<u>Description</u>	<u>Terminal</u>	<u>Black Bezel</u>		<u>Chrome Bezel</u>		<u>Flush Mount</u>	
		<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
7,000RPM	Included	333 1311	333 1311B	333 4311	333 4311B	333 0311	333 0311B

**Fluid Temperature Gauges with integrated warning light, Electrical , 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Black Bezel</u>		<u>Chrome Bezel</u>		<u>Flush Mount</u>	
					<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
250°F see pages 33-36 for pressure, temperature and fuel level sender tables	VDO	"Water"	Included	A	310 1323	310 1323B	310 4323	310 4323B	310 0323	310 0323B

**Oil Pressure Gauges with integrated warning light, Electrical, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Black Bezel</u>		<u>Chrome Bezel</u>		<u>Flush Mount</u>	
					<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
80PSI	10-180	"Oil"	Included	1	350 1321	350 1321B	350 4321	350 4321B	350 0321	350 0321B

**Fuel Level Gauges with integrated warning light, Electrical , 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Black Bezel</u>		<u>Chrome Bezel</u>		<u>Flush Mount</u>	
					<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
E-F	10-180	"Fuel"	Included	I	301 1221	301 1221B	301 4221B	301 4221B	301 0221	301 0221B

**Voltmeters with integrated warning light, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Black Bezel</u>		<u>Chrome Bezel</u>		<u>Flush Mount</u>	
			<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8-16V	"Volts"	Included	332 1221	332 1221B	332 4221	332 4221B	332 0221	332 0221B

**Viewline Accessories & Service Parts**

<u>Description</u>	<u>Single Pack Part No.</u>
Viewline stud conversion kit	600 411
Viewline flush mount adapter, 85mm	600 409
Viewline flush mount adapter, 52mm	600 410
Spin Lok 52MM (all)	600 404
Spin Lok 85MM (Viewline only)	600 412
Viewline 8 pole connector with pins	240 098
Viewline 14 pole connector with pins	240 099

**Viewline Replacement Bezels**

<u>Description</u>	<u>Single Pack Part No.</u>
52mm, black (triangular)	850 056
85mm, black (triangular)	850 057
52mm, chrome (triangular)	850 058
85mm, chrome (triangular)	850 059

- Clean, high contrast white dial with black graphics
- Surface and flush mount options
- Built in amber LEDs provide 'through-dial lighting' with illuminated pointers giving you a true OEM appearance!
- Integrated turn signal, high beam & parking brake indicators in speedometer
- Integrated warning light in each 2 1/16" (52mm) instrument
- Easy to read, large LCD display for odometer, resettable trip odometer and integrated clock
- Spin-Lok™ mounting ring for easy installation
- Simple push-button programmable speedometer
- All instruments use exclusive, VDO patented stepper motors for the utmost in accuracy and reliability

New for  
2009!



**Viewline Silver Bezel**



**Viewline Flush Mount Configuration**

Instrument panels not included  
Warning lights are illuminated for visual reference

## Complete Instrument Kits

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

All 5 gauge instrument kits include:

- 3 1/8" (80mm) 120mph programmable speedometer with: resettable trip odometer, clock, integrated turnsignals, highbeam and parking brake indicators
- 2 1/16" (52mm) 80psi oil pressure with warning light
- 2 1/16" (52mm) 250F temp gauge with warning light
- 2 1/16" (52mm) fuel gauge with warning light
- 2 1/16" (52mm) voltmeter with warning light
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender w/ 6 PSI warning contact
- 1/2-14NPT temperature sender w/ 230°F warning contact
- SAE 5 hole flange adjustable fuel sender with low fuel warning contact
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- Fuel sender mounting hardware & gasket
- All Instructions

### Application

- GM & Chrysler (w/ threaded speedo sender)
- GM & Chrysler (w/ threaded speedo sender)
- Ford & Chrysler (w/ push in speedo sender)
- Ford & Chrysler (w/ push in speedo sender)

### Bezel Color

- Chrome Bezel
- Flush Mount
- Chrome Bezel
- Flush Mount

### Kit #

- 600 9746
- 600 9706
- 600 97461
- 600 97061

All 6 gauge instrument kits include:

- 3 1/8" (80mm) 120mph programmable speedometer with: resettable trip odometer, clock, integrated turnsignals, highbeam and parking brake indicators
- 3 1/8" (80mm) 7,000 RPM tachometer
- 2 1/16" (52mm) 80psi oil pressure with warning light
- 2 1/16" (52mm) 250F temp gauge with warning light
- 2 1/16" (52mm) fuel gauge with warning light
- 2 1/16" (52mm) voltmeter with warning light
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender w/ 6 PSI warning contact
- 1/2-14NPT temperature sender w/ 230°F warning contact
- SAE 5 hole flange adjustable fuel sender with low fuel warning contact
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- Fuel sender mounting hardware & gasket
- All Instructions

### Application

- GM & Chrysler (w/ threaded speedo sender)
- GM & Chrysler (w/ threaded speedo sender)
- Ford & Chrysler (w/ push in speedo sender)
- Ford & Chrysler (w/ push in speedo sender)

### Bezel Color

- Chrome Bezel
- Flush Mount
- Chrome Bezel
- Flush Mount

### Kit #

- 600 97466
- 600 97066
- 600 974616
- 600 970616

## Electronic Speedometer w/ resettable LCD trip odometer, clock, and integrated: turn signals, parking brake and high beam indicator.

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 3 1/8" (80mm) dia. 12V

Description	Terminal	Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
120mph	Included	437 4366	437 4366B	437 0366	437 0366B

## Tachometer

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with "W" tachometer terminal. 3 1/8" (80mm) dia. 12V

Description	Terminal	Chrome Bezel		Flush Mount	
		Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
7,000RPM	Included	333 4371	333 4371B	333 0371	333 0371B

## Fluid Temperature Gauges with integrated warning light, Electrical , 2 1/16" (52mm) dia. 12V

Description	Ohm Range	On Dial	Terminal	Sender Table	Chrome Bezel		Flush Mount	
					Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
250°F	VDO	"Water"	Included	A	310 4353	310 4353B	310 0353	310 0353B

## Oil Pressure Gauges with integrated warning light, Electrical, 2 1/16" (52mm) dia. 12V

Description	Ohm Range	On Dial	Terminal	Sender Table	Chrome Bezel		Flush Mount	
					Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
80PSI	10-180	"Oil"	Included	1	350 4351	350 4351B	350 0351	350 0351B

## Fuel Level Gauges with integrated warning light, Electrical , 2 1/16" (52mm) dia. 12V

Description	Ohm Range	On Dial	Terminal	Sender Table	Chrome Bezel		Flush Mount	
					Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
E-F	10-180	"Fuel"	Included	I	301 4261	301 4261B	301 0261	301 0261B

see pages 33-36 for pressure, temperature and fuel level sender tables



**Voltmeters with integrated warning light, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Chrome Bezel</u>		<u>Flush Mount</u>	
			<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8-16V	"Volts"	Included	332 4261	332 4261B	332 0261	332 0261B

**Viewline Accessories & Service Parts**

<u>Description</u>	<u>Single Pack Part No.</u>
Viewline stud conversion kit	600 411
Viewline flush mount adapter, 85mm	600 409
Viewline flush mount adapter, 52mm	600 410
Spin Lok 52MM (all)	600 404
Spin Lok 85MM (Viewline only)	600 412
Viewline 8 pole connector with pins	240 098
Viewline 14 pole connector with pins	240 099

**Viewline Replacement Bezels**

<u>Description</u>	<u>Single Pack Part No.</u>
52mm, black (triangular)	850 056
85mm, black (triangular)	850 057
52mm, chrome (triangular)	850 058
85mm, chrome (triangular)	850 059

## Viewline Sterling

- Brilliant, high tech silver dial with black graphics
- Surface and flush mount options
- Built in amber LEDs provide 'through-dial lighting' with illuminated pointers giving you a true OEM appearance!
- Integrated turn signal, high beam & parking brake indicators in speedometer
- Integrated warning light in each 2 1/16" (52mm) instrument
- Easy to read, large LCD display for odometer, resettable trip odometer and integrated clock
- Spin-Lok™ mounting ring for easy installation
- Simple push-button programmable speedometer
- All instruments use exclusive, VDO patented stepper motors for the utmost in accuracy and reliability



**Viewline Silver Bezel**



**Viewline Flush Mount Configuration**

Instrument panels not included  
Warning lights are illuminated for visual reference

**Complete Instrument Kits**

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

All 5 gauge instrument kits include:

- 3 1/8" (80mm) 120mph programmable speedometer with: resettable trip odometer, clock, integrated turnsignals, highbeam and parking brake indicators
  - 2 1/16" (52mm) 80psi oil pressure with warning light
  - 2 1/16" (52mm) 250F temp gauge with warning light
  - 2 1/16" (52mm) fuel gauge with warning light
  - 2 1/16" (52mm) voltmeter with warning light
  - Hall Effect speedometer sender
  - 1/8-27NPT oil pressure sender w/ 6 PSI warning contact
  - 1/2-14NPT temperature sender w/ 230°F warning contact
  - SAE 5 hole flange adjustable fuel sender with low fuel warning contact
  - All instrument connectors & terminals
  - 1/4, 3/8 & 1/2 adapters for pressure sender
  - Fuel sender mounting hardware & gasket
  - All Instructions
- | Application                                | Bezel Color  | Kit #     |
|--|--------------|-----------|
| GM & Chrysler (w/ threaded speedo sender)  | Chrome Bezel | 600 9744  |
| GM & Chrysler (w/ threaded speedo sender)  | Flush Mount  | 600 9704  |
| Ford & Chrysler (w/ push in speedo sender) | Chrome Bezel | 600 97441 |
| Ford & Chrysler (w/ push in speedo sender) | Flush Mount  | 600 97041 |

All 6 gauge instrument kits include:

- 3 1/8" (80mm) 120mph programmable speedometer with: resettable trip odometer, clock, integrated turnsignals, highbeam and parking brake indicators
  - 3 1/8" (80mm) 7,000rpm tachometer
  - 2 1/16" (52mm) 80psi oil pressure with warning light
  - 2 1/16" (52mm) 250F temp gauge with warning light
  - 2 1/16" (52mm) fuel gauge with warning light
  - 2 1/16" (52mm) voltmeter with warning light
  - Hall Effect speedometer sender
  - 1/8-27NPT oil pressure sender w/ 6 PSI warning contact
  - 1/2-14NPT temperature sender w/ 230°F warning contact
  - SAE 5 hole flange adjustable fuel sender with low fuel warning contact
  - All instrument connectors & terminals
  - 1/4, 3/8 & 1/2 adapters for pressure sender
  - Fuel sender mounting hardware & gasket
  - All Instructions
- | Application                                | Bezel Color  | Kit #      |
|--|--------------|------------|
| GM & Chrysler (w/ threaded speedo sender)  | Chrome Bezel | 600 97446  |
| GM & Chrysler (w/ threaded speedo sender)  | Flush Mount  | 600 97046  |
| Ford & Chrysler (w/ push in speedo sender) | Chrome Bezel | 600 974416 |
| Ford & Chrysler (w/ push in speedo sender) | Flush Mount  | 600 970416 |

**Electronic Speedometer w/ resettable LCD trip odometer, clock, and integrated: turn signals, parking brake and high beam indicator.**

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 3 1/8" (80mm) dia. 12V

Description	Terminal	Chrome Bezel		Flush Mount	
		Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
120mph	Included	437 4291	437 4291B	437 0291	437 0291B

**Tachometer**

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with "W" tachometer terminal. 3 1/8" (80mm) dia. 12V

Description	Terminal	Chrome Bezel		Flush Mount	
		Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
7,000RPM	Included	333 4291	333 4291B	333 0291	333 0291B

**Fluid Temperature Gauges with integrated warning light, Electrical , 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Terminal	Sender Table	Chrome Bezel		Flush Mount	
					Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
250°F	VDO	"Water"	Included	A	310 4291	310 4291B	310 0291	310 0291B

**Oil Pressure Gauges with integrated warning light, Electrical, 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Terminal	Sender Table	Chrome Bezel		Flush Mount	
					Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
80PSI	10-180	"Oil"	Included	1	350 4291	350 4291B	350 0291	350 0291B

**Fuel Level Gauges with integrated warning light, Electrical , 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Terminal	Sender Table	Chrome Bezel		Flush Mount	
					Single Pack Part No.	10 Pack Part No.	Single Pack Part No.	10 Pack Part No.
E-F	10-180	"Fuel"	Included	I	301 4291	301 4291B	301 0291	301 0291B

see pages 33-36 for pressure, temperature and fuel level sender tables

## Voltmeters with integrated warning light, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Chrome Bezel</u>		<u>Flush Mount</u>	
			<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8-16V	"Volts"	Included	332 4291	332 4291B	332 0291	332 0291B

## Viewline Accessories & Service Parts

<u>Description</u>	<u>Single Pack Part No.</u>
Viewline stud conversion kit	600 411
Viewline flush mount adapter, 85mm	600 409
Viewline flush mount adapter, 52mm	600 410
Spin Lok 52MM (all)	600 404
Spin Lok 85MM (Viewline only)	600 412
Viewline 8 pole connector with pins	240 098
Viewline 14 pole connector with pins	240 099

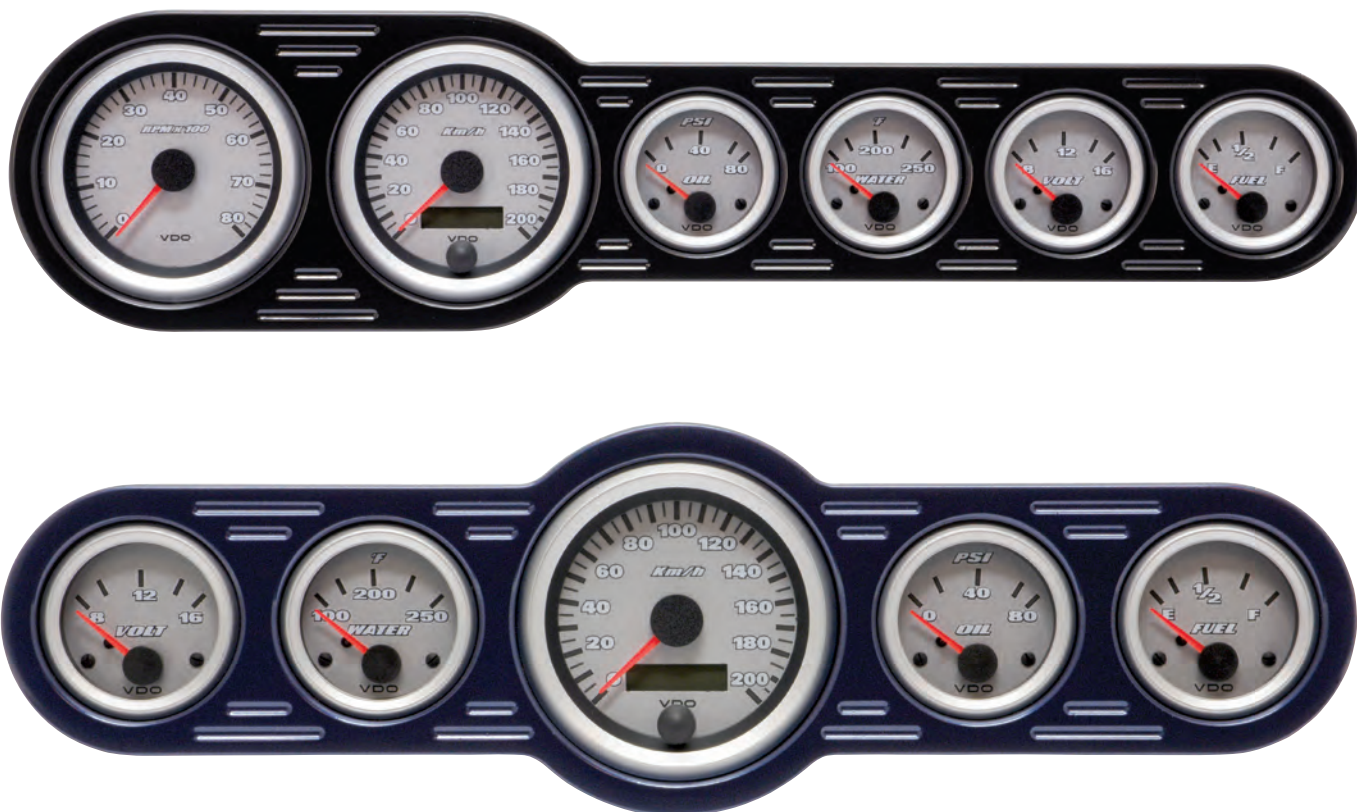
## Viewline Replacement Bezels

<u>Description</u>	<u>Single Pack Part No.</u>
52mm, black (triangular)	850 056
85mm, black (triangular)	850 057
52mm, chrome (triangular)	850 058
85mm, chrome (triangular)	850 059



VDO Vision instruments deliver world-class accuracy, reliability, and technology. Our exclusive Trioptic™ illumination featuring 'through-dial lighting' and illuminated pointers for maximum nighttime visibility. These precision instruments feature our patented stepper motor technology or air core movements for smooth, accurate performance and long-life dependability. Our unique VDO Spin-Lok™ mounting system makes installing Vision instruments fast and easy and provides a full 360 degrees of mounting force to prevent panel warping and gauge rotation.

New for  
2009!



### Vision Silverstone

Instrument panels not included

- Stunning silver dials and matching plated bezels
- Brilliant red 'through-dial' lighting and illuminated pointers
- Clear white graphics for easy readability

## Complete Instrument Kits

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

<p>All 5 gauge instrument kits include:</p> <ul style="list-style-type: none"> <li>• 3 3/8" (85mm) 120mph programmable speedometer with resettable trip odometer</li> <li>• 2 1/16" (52mm) 80psi oil pressure</li> <li>• 2 1/16" (52mm) 250F temp gauge</li> <li>• 2 1/16" (52mm) fuel gauge</li> <li>• 2 1/16" (52mm) voltmeter</li> </ul> <p><u>Application</u></p> <p>GM &amp; Chrysler (w/ threaded speedo sender)</p> <p>Ford &amp; Chrysler (w/ push in speedo sender)</p> <p>Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!</p>	<ul style="list-style-type: none"> <li>• Hall Effect speedometer sender</li> <li>• 1/8-27NPT oil pressure sender</li> <li>• 3/8-18NPT temperature sender</li> <li>• SAE 5 hole flange adjustable fuel sender</li> <li>• All instrument connectors &amp; terminals</li> </ul>	<ul style="list-style-type: none"> <li>• 1/4, 3/8 &amp; 1/2 adapters for pressure sender</li> <li>• 1/2 adapter for temperature sender</li> <li>• Fuel sender mounting hardware &amp; gasket</li> <li>• All Instructions</li> </ul> <p><u>Kit #</u></p> <p>600 900</p> <p>600 9001</p>
<p>All 6 gauge instrument kits include:</p> <ul style="list-style-type: none"> <li>• 3 3/8" (85mm) 120mph programmable speedometer with resettable trip odometer</li> <li>• 3 3/8" (85mm) 8,000rpm tachometer</li> <li>• 2 1/16" (52mm) 80psi oil pressure</li> <li>• 2 1/16" (52mm) 250F temp gauge</li> <li>• 2 1/16" (52mm) fuel gauge</li> <li>• 2 1/16" (52mm) voltmeter</li> </ul> <p><u>Application</u></p> <p>GM &amp; Chrysler (w/ threaded speedo sender)</p> <p>Ford &amp; Chrysler (w/ push in speedo sender)</p> <p>Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!</p>	<ul style="list-style-type: none"> <li>• Hall Effect speedometer sender</li> <li>• 1/8-27NPT oil pressure sender</li> <li>• 3/8-18NPT temperature sender</li> <li>• SAE 5 hole flange adjustable fuel sender</li> <li>• All instrument connectors &amp; terminals</li> </ul>	<ul style="list-style-type: none"> <li>• 1/4, 3/8 &amp; 1/2 adapters for pressure sender</li> <li>• 1/2 adapter for temperature sender</li> <li>• Fuel sender mounting hardware &amp; gasket</li> <li>• All Instructions</li> </ul> <p><u>Kit #</u></p> <p>600 9006</p> <p>600 90016</p>

## Electronic Speedometer w/ resettable LCD trip odometer.

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 3 3/8" (85mm) dia. 12V

<u>Description</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	.250" Spade	437 901	437 901B

## Tachometer

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with 'W' tachometer terminal. 3 3/8" (85mm) dia. 12V

<u>Description</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8,000RPM	.250" Spade	333 900	333 900B

## Fluid Temperature Gauges, Electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
250°F	VDO	"Water"	.250" Spade	A	310 900	310 900B

## Oil Pressure Gauges, Electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
80PSI	10-180	"Oil"	.250" Spade	1	350 904	350 904B

## Fuel Level Gauges, Electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
E-F	10-180	"Fuel"	.250" Spade	I	310 900	301 900B

## Voltmeter, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8-16V	"Volts"	.250" Spade	332 900	332 900B

see pages 33-36 for pressure, temperature and fuel level sender tables

VDO Vision instruments deliver world-class accuracy, reliability, and technology. Our exclusive Trioptic™ illumination featuring 'through-dial lighting' and illuminated pointers for maximum nighttime visibility. These precision instruments feature our patented stepper motor technology or air core movements for smooth, accurate performance and long-life dependability. Our unique VDO Spin-Lok™ mounting system makes installing Vision instruments fast and easy and provides a full 360 degrees of mounting force to prevent panel warping and gauge rotation.



**Vision Chrome**

- Brilliant chrome bezels
- Easy-to-read white graphics on an illuminated black dial use red pointers
- Optional light diffusers allow the dial illumination color to be changed to red or green.



Shown in Back-Mount Configuration

**Vision**

- Classic, sleek black bezels
- Easy-to-read white graphics on an illuminated black dial use red pointers
- Optional light diffusers allow the dial illumination color to be changed to red or green.

Instrument panels not included

## Complete Instrument Kits

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

<p>All 5 gauge instrument kits include:</p> <ul style="list-style-type: none"> <li>• 3 3/8" (85mm) 120mph programmable speedometer with resettable trip odometer</li> <li>• 2 1/16" (52mm) 80psi oil pressure</li> <li>• 2 1/16" (52mm) 250F temp gauge</li> <li>• 2 1/16" (52mm) fuel gauge</li> <li>• 2 1/16" (52mm) voltmeter</li> </ul> <p><u>Application</u></p> <p>GM &amp; Chrysler (w/ threaded speedo sender)</p> <p>Ford &amp; Chrysler (w/ push in speedo sender)</p> <p>Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!.</p>	<ul style="list-style-type: none"> <li>• Hall Effect speedometer sender</li> <li>• 1/8-27NPT oil pressure sender</li> <li>• 3/8-18NPT temperature sender</li> <li>• SAE 5 hole flange adjustable fuel sender</li> <li>• All instrument connectors &amp; terminals</li> </ul>	<ul style="list-style-type: none"> <li>• 1/4, 3/8 &amp; 1/2 adapters for pressure sender</li> <li>• 1/2 adapter for temperature sender</li> <li>• Fuel sender mounting hardware &amp; gasket</li> <li>• All Instructions</li> </ul> <p><u>Kit #</u></p> <p>600 991</p> <p>600 9911</p>
<p>All 6 gauge instrument kits include:</p> <ul style="list-style-type: none"> <li>• 3 3/8" (85mm) 120mph programmable speedometer with tripodometer</li> <li>• 3 3/8" (85mm) 6,000rpm tachometer</li> <li>• 2 1/16" (52mm) 80psi oil pressure</li> <li>• 2 1/16" (52mm) 250F temp gauge</li> <li>• 2 1/16" (52mm) fuel gauge</li> <li>• 2 1/16" (52mm) voltmeter</li> </ul> <p><u>Application</u></p> <p>GM &amp; Chrysler (w/ threaded speedo sender)</p> <p>Ford &amp; Chrysler (w/ push in speedo sender)</p> <p>Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!.</p>	<ul style="list-style-type: none"> <li>• Hall Effect speedometer sender</li> <li>• 1/8-27NPT oil pressure sender</li> <li>• 3/8-18NPT temperature sender</li> <li>• SAE 5 hole flange adjustable fuel sender</li> <li>• All instrument connectors &amp; terminals</li> </ul>	<ul style="list-style-type: none"> <li>• 1/4, 3/8 &amp; 1/2 adapters for pressure sender</li> <li>• 1/2 adapter for temperature sender</li> <li>• Fuel sender mounting hardware &amp; gasket</li> <li>• All Instructions</li> </ul> <p><u>Kit #</u></p> <p>600 9916</p> <p>600 99116</p>

### Electronic Speedometer w/ resettable LCD trip odometer.

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 3 3/8" (85mm) dia. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	3 3/8" (85mm) dia.	.250" Spade	437 191	437 191B

### Tachometer

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with "W" tachometer terminal. 3 3/8" (85mm) dia. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
6,000RPM	3 3/8" (85mm) dia.	.250" Spade	333 197	333 197B

### Fluid Temperature Gauges, Electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
250°F	VDO	"Water"	.250" Spade	A	310 195	310 195B
300°F	VDO	"Oil"	.250" Spade	B	310 196	310 196B

### Fluid Temperature Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Terminal</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
250°F	"Water"	US	.250" Spade	1/4, 3/8, 1/2	310 1951
250°F	"Water"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	310 1952
300°F	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	310 1961
300°F	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	310 1962

### Fluid Temperature Gauges, Mechanical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>Capillary Length</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
110-265°F	72"	"Water"	½-14NPT	180 191	180 191B
110-265°F	96"	"Water"	½-14NPT	180 192	180 192B



**Pyrometer, electrical, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Single Pack Part No.	10 Pack Part No.
250-1650°F	"°F"	310 191B	310 193B
Kit with 12' lead wire		310 193	
Pyrometer sender only		323 892	
30' extension wire		240 092	
Weld-on adapter		240 863	

**Oil Pressure Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Terminal	Sender Table	Single Pack Part No.	10 Pack Part No.
80PSI	10-180	"Oil"	.250" Spade	1	350 194	350 194B
100PSI	10-180	"Oil"	.250" Spade	2	350 196	350 196B
150PSI	10-180	"Oil"	.250" Spade	3	350 198	350 198B
400PSI	10-180	"Trans"	.250" Spade	4	350 290	350 290B

**Oil Pressure Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Thread Type	Terminal	Adapter Incl.	Single Pack Part No.
80PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 1941
80PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 1942
100PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 1961
100PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 1962
150PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 1981
150PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 1982

**Oil Pressure Gauges, Mechanical, 2 1/16" (52mm) dia.**

Description	On Dial	Fitting Size	Single Pack Part No.	10 Pack Part No.
100PSI	"Oil"	1/8-27NPT	150 197	150 197B
150PSI	"Oil"	1/8-27NPT	150 192	150 192B

Tubing kit not included, see page 39

**Oil Pressure Gauges Kit, Mechanical, Includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.**

Description	On Dial	Thread Type	Adapter Incl.	Single Pack Part No.
100PSI	"Oil"	US	1/4, 3/8, 1/2	150 1971
100PSI	"Oil"	Metric	M10,12,14,16, 1/8BSP	150 1972
150PSI	"Oil"	US	1/4, 3/8, 1/2	150 1921
150PSI	"Oil"	Metric	M10,12,14,16, 1/8BSP	150 1922

**Boost Pressure Gauges, mechanical, 2 1/16" (52mm) dia.**

Description	On Dial	Fitting Size	Single Pack Part No.	10 Pack Part No.
15PSI	"Boost"	1/8-27NPT	150 191	150 191B
30PSI	"Boost"	1/8-27NPT	150 194	150 194B

Tubing kit not included, see page 39

**Boost Gauge Kit, mechanical, includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.**

Description	On Dial	Thread Type	Adapter Incl.	Single Pack Part No.
15PSI	"Boost"	US	1/4, 3/8, 1/2	150 1911
15PSI	"Boost"	Metric	M10,12,14,16, 1/8BSP	150 1912
30PSI	"Boost"	US	1/4, 3/8, 1/2	150 1941
30PSI	"Boost"	Metric	M10,12,14,16, 1/8BSP	150 1942

**Fuel Level Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Terminal	Sender Table	Single Pack Part No.	10 Pack Part No.
E-F	10-180	"Fuel"	.250" Spade	I	301 194	301 194B

**Voltmeter, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Terminal	Single Pack Part No.	10 Pack Part No.
8-16V	"Volts"	.250" Spade	332 193	332 193B

see pages 33-36 for pressure, temperature and fuel level sender tables

## Complete Instrument Kits

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

All 5 gauge instrument kits include:

- 120mph programmable speedometer with resettable trip odometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

Application

GM & Chrysler (w/ threaded speedo sender)  
 Ford & Chrysler (w/ push in speedo sender)  
 GM & Chrysler (w/ threaded speedo sender)  
 Ford & Chrysler (w/ push in speedo sender)

Speedometer diameter

3 1/8" (80mm)  
 3 1/8" (80mm)  
 3 3/8" (85mm)  
 3 3/8" (85mm)

Kit #

600 903  
 600 9031  
 600 904  
 600 9041

Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!

All 6 gauge instrument kits include:

- 3 3/8" (85mm) 120mph programmable speedometer with tripodometer
- 3 3/8" (85mm) 6,000rpm tachometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender16
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

Application

GM & Chrysler (w/ threaded speedo sender)  
 Ford & Chrysler (w/ push in speedo sender)

Kit #

600 9046  
 600 90416

Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!

## Electronic Speedometer w/ resettable LCD trip odometer.

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	3 1/8" (80mm) dia.	.250" Spade	437 151	437 151B
120mph	3 3/8" (85mm) dia.	.250" Spade	437 153	437 153B
120mph	4" (100mm) dia.	.250" Spade	437 155	437 155B
220mph	4" (100mm) dia.	.250" Spade	437 159	437 159B
140mph/220Kmh	3 1/8" (80mm) dia.	.250" Spade	437 157	437 157B
140mph/220Kmh	4" (100mm) dia.	.250" Spade	437 158	437 158B
200kmh	3 1/8" (80mm) dia.	.250" Spade	437 154	437 154B
220kmh	4" (100mm) dia.	.250" Spade	437 156	437 156B

## Tachometer

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with "W" tachometer terminal. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
3,000RPM	3 3/8" (85mm) dia.	.250" Spade	333 152	333 152B
4,000RPM	2 1/16" (52mm) dia.	.250" Spade	333 156	333 156B
6,000RPM	2 1/16" (52mm) dia.	.250" Spade	333 158	333 158B
7,000RPM	3 1/8" (85mm) dia.	.250" Spade	333 151	333 151B
7,000RPM	3 3/8" (85mm) dia.	.250" Spade	333 155	333 155B
8,000RPM	2 1/16" (52mm) dia.	.250" Spade	333 159	333 159B
8,000RPM	2 1/16" (52mm) dia. in chrome mounting cup	.250" Spade	333-992	
8,000RPM	2 1/16" (52mm) dia. in black mounting cup	.250" Spade	333-990	
8,000RPM	4" (100mm) dia.	.250" Spade	333 160	333 160B

**Fluid Temperature Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Sender Table	Single Pack Part No.	10 Pack Part No.
250°F	VDO	"Water"	A	310 105	310 105B
300°F	VDO	"Oil"	B	310 106	310 106B
300°F	VDO	"Trans"	B	310 111	310 111B
400°F	VDO	"Trans"	C	310 107	310 107B
120°C	VDO	Water symbol	A	310 108	310 108B
150°C	VDO	Oil symbol	B	310 109	310 109B

**Fluid Temperature Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Terminal	Adapter Incl.	Single Pack Part No.
250°F	"Water"	.250" Spade	1/4, 3/8, 1/2	310 1051
250°F	"Water"	.250" Spade	M10,12,14,16, 1/8BSP	310 1052
300°F	"Oil"	.250" Spade	1/4, 3/8, 1/2	310 1061
300°F	"Oil"	.250" Spade	M10,12,14,16, 1/8BSP	310 1602
400°F	"Trans"	.250" Spade	1/4, 3/8, 1/2	310 1071
400°F	"Trans"	.250" Spade	M10,12,14,16, 1/8BSP	310 1072

**Fluid Temperature Gauges, Mechanical, 2 1/16" (52mm) dia.**

Description	Capillary Length	On Dial	Fitting Size	Single Pack Part No.	10 Pack Part No.
110-265°F	72"	"Water"	½-14NPT	180 101	180 101B
120-340°F	72"	"Oil"	½-14NPT	180 105	180 105B

**Outside Temperature Gauges, Electrical, 2 1/16" (52mm) dia.**

Description	On Dial	Terminal	Single Pack Part No.	10 Pack Part No.	
-10°F-+120°F	Complete kit	°F	.250" Spade	397 154	397 154B
-25°C-+40°C	Complete kit	°C	.250" Spade	397 155	397 155B

**Pyrometer, electrical, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Single Pack Part No.	10 Pack Part No.	
250-1650°F	gauge only	"°F"	310 151	310 151B
Kit with 12' lead wire			310 153	
Pyrometer sender only			323 892	
30' extension wire			240 092	
weld-on adapter			240 863	

**Oil Pressure Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Terminal	Sender Table	Single Pack Part No.	10 Pack Part No.
80PSI	10-180	"Oil"	.250" Spade	1	350 104	350 104B
100PSI	10-180	"Oil"	.250" Spade	2	350 106	350 106B
150PSI	10-180	"Oil"	.250" Spade	3	350 108	350 108B
400PSI	10-180	"Trans"	.250" Spade	—	350 110	350 110B
5BAR	10-180	Oil Symbol	.250" Spade	1	350 101	350 101B
10BAR	10-180	Oil Symbol	.250" Spade	2	350 102	350 102B

**Oil Pressure Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Thread Type	Terminal	Adapter Incl.	Single Pack Part No.
80PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 1041
80PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 1042
100PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 1061
100PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 1062
150PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 1081
150PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 1082

see pages 33-36 for pressure, temperature and fuel level sender tables

## Oil Pressure Gauges, Mechanical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
100PSI	"Oil"	1/8-27NPT	150 107	150 107B
150PSI	"Oil"	1/8-27NPT	150 111	150 111B

Tubing kit not included, see page 39

## Oil Pressure Gauges Kit, Mechanical, Includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
100PSI	"Oil"	US	1/4, 3/8, 1/2	150 1071
100PSI	"Oil"	Metric	M10,12,14,16, 1/8BSP	150 1072
150PSI	"Oil"	US	1/4, 3/8, 1/2	150 1111
150PSI	"Oil"	Metric	M10,12,14,16, 1/8BSP	150 1112

## Turbo & Boost Gauges, mechanical, 2 1/16" (52mm) dia

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
15PSI	"Boost"	1/8-27NPT	150 101	150 101B
30PSI	"Boost"	1/8-27NPT	150 104	150 104B
0-30in Hg to 0-25PSI	"Turbo"	1/8-27NPT	150 121	150 121B
0-3bar	"Turbo"	1/8-27NPT	150 102	150 102B

Tubing kit not included, see page 39

## Turbo Boost Pressure Gauges Kit, mechanical, includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Single Pack Part No.</u>
15PSI	"Boost"	US	150 1011
15PSI	"Boost"	Metric	150 1012
30PSI	"Boost"	US	150 1041
30PSI	"Boost"	Metric	150 1042
30Hg/25PSI	"Turbo"	US	150 1211
30Hg/25PSI	"Turbo"	Metric	150 1212

## Vacuum Gauges, mechanical, 2 1/16" (52mm) dia

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
30"Hg	"Vacuum"	1/8-27NPT	150 131	150 131B

Tubing kit not included, see page 39

## Fuel Level Gauges, Electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
E-F	10-180	"Fuel"	.250" Spade	I	301 104	301 104B
E-F	240-33	"Fuel"	.250" Spade	II	301 105	301 105B
E-F	0-90	"Fuel"	.250" Spade	III	301 106	301 106B

## Voltmeter, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8-16V	"Volts"	.250" Spade	332 103	332 103B

## Ammeter, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
30A (non shunted)	"AMP"	M5 Stud	190 103	190 103B
60A (non shunted)	"AMP"	M5 Stud	190 104	190 104B
100A (non-shunted)	"AMP"	M8 Stud	190 105	190 105B

see pages 33-36 for pressure, temperature and fuel level sender tables



The gauge that started it all. Years of research have revealed the best combination of colors for readability and reduced eye fatigue. The result: VDO Cockpit Instruments – great styling with uncompromising VDO quality. All Cockpit family instruments feature VDO's unique air core electric movements, computer balanced pointers and fully illuminated dials.



Shown in Back-Mount Configuration



### Cockpit Royale

- Classic look of the '30's and '40's
- Crisp white dials and brilliant chrome bezels
- Flat black, antique graphics



### Cockpit

- Sharp black dials and classic black bezels
- Brilliant red pointers and white graphics
- Classic American design



### Cockpit White

- Clean, european influenced design
- Bright white dial accented by black bezels
- Black graphics and red pointers

Instrument panels not included

## Complete Instrument Kits

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

Mechanical speedometer instrument kits include:

- 3 3/8" (85mm) 120mph mechanical speedometer with 5/8-18 thread and 1.0 ratio
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

Application

Universal

Kit #

600 909

All 5 gauge instrument kits include:

- 120mph programmable speedometer with resettable trip odometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

Application

GM & Chrysler (w/ threaded speedo sender)

Ford & Chrysler (w/ push in speedo sender)

GM & Chrysler (w/ threaded speedo sender)

Ford & Chrysler (w/ push in speedo sender)

Speedometer diameter

3 1/8" (80mm)

3 1/8" (80mm)

3 3/8" (85mm)

3 3/8" (85mm)

Kit #

600 926

600 9261

600 927

600 9271

Order wire harnesss 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!.

All 6 gauge instrument kits include:

- 3 3/8" (85mm) 120mph programmable speedometer with tripodometer
- 3 3/8" (85mm) 7,000rpm tachometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

Application

GM & Chrysler (w/ threaded speedo sender)

Ford & Chrysler (w/ push in speedo sender)

Kit #

600 9276

600 92716

Order wire harnesss 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!.

## Electronic Speedometer w/ resettable LCD tripodometer.

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	3 1/8" (80mm) dia	.250" Spade	437 750	437 750B
120mph	3 3/8" (85mm) dia	.250" Spade	437 752	437 752B

## Mechanical Speedometer 5/8-18 thread, 1.0 ratio

<u>Description</u>	<u>Size</u>	<u>Fitting</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	3 3/8" (85mm) dia	5/8-18	120 746	120 746B

## Tachometer

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with "W" tachometer terminal. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
7,000RPM	3 1/8" (80mm) dia	.250" Spade	333 707	333 707B
7,000RPM	3 3/8" (85mm) dia	.250" Spade	333 708	333 708B

**Fluid Temperature Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
250°F	VDO	"Water Temperature"	.250" Spade	A	310 710	310 710B
300°F	VDO	"Oil Temperature"	.250" Spade	B	310 709	310 709B

**Fluid Temperature Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Terminal</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
250°F	"Water Temperature"	US	.250" Spade	1/4, 3/8, 1/2	310 7101
250°F	"Water Temperature"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	310 7102
300°F	"Oil Temperature"	US	.250" Spade	1/4, 3/8, 1/2	310 7092
300°F	"Oil Temperature"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	310 7091

**Oil Pressure Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
80PSI	10-180	"Oil Pressure"	.250" Spade	1	350 702	350 702B

**Oil Pressure Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Terminal</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
80PSI	"Oil Pressure"	US	.250" Spade	1/4, 3/8, 1/2	350 7021
80PSI	"Oil Pressure"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 7022

**Fuel Level Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
E-F	10-180	"Fuel"	.250" Spade	I	301 733	301 733B

**Voltmeter, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8-16V	"Volts"	.250" Spade	332 702	332 702B

## Complete Instrument Kits

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

Mechanical speedometer instrument kits include:

- 3 3/8" (85mm) 120mph mechanical speedometer with 5/8-18 thread and 1.0 ratio
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

<u>Application</u>	<u>Kit #</u>
Universal	600 905

All 5 gauge instrument kits include:

- 120mph programmable speedometer with resettable trip odometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

<u>Application</u>	<u>Speedometer diameter</u>	<u>Kit #</u>
GM & Chrysler (w/ threaded speedo sender)	3 1/8" (80mm)	600 923
Ford & Chrysler (w/ push in speedo sender)	3 1/8" (80mm)	600 9231
GM & Chrysler (w/ threaded speedo sender)	3 3/8" (85mm)	600 924
Ford & Chrysler (w/ push in speedo sender)	3 3/8" (85mm)	600 9241

Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!

All 6 gauge instrument kits include:

- 3 3/8" (85mm) 120mph programmable speedometer with trip odometer
- 3 3/8" (85mm) 7,000rpm tachometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

<u>Application</u>	<u>Kit #</u>
GM & Chrysler (w/ threaded speedo sender)	600 9246
Ford & Chrysler (w/ push in speedo sender)	600 92416

Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!

## Electronic Speedometer w/ resettable LCD trip odometer.

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	3 1/8" (80mm) dia.	.250" Spade	437 050	437 050B
120mph	3 3/8" (85mm) dia.	.250" Spade	437 052	437 052B
160mph	3 3/8" (85mm) dia.	.250" Spade	437 053	437 053B

## Mechanical Speedometer 5/8-18 thread, 1.0 ratio

<u>Description</u>	<u>Size</u>	<u>Fitting</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	3 3/8" (85mm) dia.	5/8-18	120 012	120 012B

## Tachometer

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with "W" tachometer terminal. 3 3/8" (85mm) dia. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
7,000RPM	3 1/8" (85mm) dia.	.250" Spade	333 051	333 051B
7,000RPM	3 3/8" (85mm) dia.	.250" Spade	333 055	333 055B

**Fluid Temperature Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Terminal	Sender Table	Single Pack Part No.	10 Pack Part No.
250°F	VDO	"Water"	.250" Spade	A	310 039	310 039B
250°F	VDO	Temp Symbol	.250" Spade	A	310 041	310 041B
300°F	VDO	"Oil"	.250" Spade	B	310 012	310 012B
400°F	VDO	"Transmission Oil Temp."	.250" Spade	C	310 015	310 015B

**Fluid Temperature Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Thread Type	Terminal	Adapter Incl.	Single Pack Part No.
250°F	"Water"	US	.250" Spade	1/4, 3/8, 1/2	310 0391
250°F	"Water"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	310 0392
300°F	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	310 0121
300°F	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	310 0122
400°F	"Transmission Oil Temp."	US	.250 Spade	na	310 091

**Fluid Temperature Gauges, Mechanical, 2 1/16" (52mm) dia.**

Description	Capillary Length	On Dial	Fitting Size	Single Pack Part No.	10 Pack Part No.
110-265°F	72"	"Water"	½-14NPT	180 040	180 040B
110-265°F	96"	"Water"	½-14NPT	180 041	180 041B

**Cylinder Head Temperature Gauges, Electrical, 2 1/16" (52mm) dia.**

Description	On Dial	Terminal	Single Pack Part No.	10 Pack Part No.
600°F	Cyl. Head Temp	.250" Spade	310 033	310 033B
600°F complete kit (with sender)	Cyl. Head Temp	.250" Spade	310 901	
14mm dia. thermal sender (included in kit)			323 701	
12mm dia. thermal sender			323 705	
Replacement 15' intermediate lead wire			240 701	

**Pyrometer, electrical, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Single Pack Part No.	10 Pack Part No.
250-1650°F	"°F"	310 951	310 951B
Kit with 12' lead wire		310 953	
Pyrometer sender only		323 892	
30' extension wire		240 092	
weld-on adapter		240 863	

**Oil Pressure Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Terminal	Sender Table	Single Pack Part No.	10 Pack Part No.
80PSI	10-180	"Oil"	.250" Spade	1	350 040	350 040B
100PSI	10-180	"Oil"	.250" Spade	2	350 065	350 066B
150PSI	10-180	"Oil"	.250" Spade	3	350 041	350 041B

**Oil Pressure Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Thread Type	Terminal	Adapter Incl.	Single Pack Part No.
80PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 0401
80PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 0402
100PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 0651
100PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 0652
150PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 0411
150PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 0412

see pages 33-36 for pressure, temperature and fuel level sender tables

## Oil Pressure Gauges, Mechanical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
100PSI	"Oil"	1/8-27NPT	150 030	150 030B
150PSI	"Oil"	1/8-27NPT	150 047	150 047B

Tubing kit not included, see page 39

## Oil Pressure Gauges Kit, Mechanical, Includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
100PSI	"Oil"	US	1/4, 3/8, 1/2	150 0301
100PSI	"Oil"	Metric	M10,12,14,16, 1/8BSP	150 0302
150PSI	"Oil"	US	1/4, 3/8, 1/2	150 0471
150PSI	"Oil"	Metric	M10,12,14,16, 1/8BSP	150 0472

## Boost Pressure Gauges, mechanical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
15PSI	"Boost"	1/8-27NPT	150 051	150 051B
30PSI	"Boost"	1/8-27NPT	150 052	150 052B

Tubing kit not included, see page 39

## Boost Gauge Kit, mechanical, includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
15PSI	"Boost"	US	1/4, 3/8, 1/2	150 0511
15PSI	"Boost"	Metric	M10,12,14,16, 1/8BSP	150 0512
30PSI	"Boost"	US	1/4, 3/8, 1/2	150 0521
30PSI	"Boost"	Metric	M10,12,14,16, 1/8BSP	150 0522

## Vacuum Gauge Kit, mechanical, includes 6ft of tubing and nipples, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Single Pack Part No.</u>
30"Hg	"Vacuum"	150 042

## Turbo Boost Gauge, mechanical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
30"Hg/25 PSI	"Turbo"	1/8-27NPT	150 053	150 063B

Tubing kit not included, see page 39

## Fuel Level Gauges, Electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
E-F	10-180	"Fuel"	.250" Spade	I	301 015	301 015B
E-F	0-90	"Fuel"	.250" Spade	II	301 030	301 030B
E-F	OE VW Beetle (aircooled)	"Fuel"	.250" Spade	IV	301 020	301 020B

## Voltmeter, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8-16V	"Volts"	.250" Spade	332 041	332 041B

see pages 33-36 for pressure, temperature and fuel level sender tables



**Complete Instrument Kits**

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

All 5 gauge instrument kits include:

- 120mph programmable speedometer with resettable trip odometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender M
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

<u>Application</u>	<u>Speedometer diameter</u>	<u>Kit #</u>
GM & Chrysler (w/ threaded speedo sender)	3 1/8" (80mm)	600 921
Ford & Chrysler (w/ push in speedo sender)	3 1/8" (80mm)	600 9211
GM & Chrysler (w/ threaded speedo sender)	3 3/8" (85mm)	600 922
Ford & Chrysler (w/ push in speedo sender)	3 3/8" (85mm)	600 9221

Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!

All 6 gauge instrument kits include:

- 3 3/8" (85mm) 120mph programmable speedometer with trip odometer
- 3 3/8" (85mm) 7,000rpm tachometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

<u>Application</u>	<u>Kit #</u>
GM & Chrysler (w/ threaded speedo sender)	600 9226
Ford & Chrysler (w/ push in speedo sender)	600 92216

Order wire harness 240 022 with above kits for a complete, clean installation and avoid the 'birds nest' look!

**Electronic Speedometer w/ resettable LCD trip odometer.**

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	3 1/8" (80mm) dia.	.250" Spade	437 201	437 201B
120mph	3 3/8" (85mm) dia.	.250" Spade	437 202	437 202B

**Tachometer**

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with "W" tachometer terminal. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
7,000RPM	3 1/8" (85mm) dia.	.250" Spade	333 251	333 251B
7,000RPM	3 3/8" (85mm) dia.	.250" Spade	333 255	333 255B

**Fluid Temperature Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
250°F	VDO	"Water"	.250" Spade	A	310 239	310 239B

**Fluid Temperature Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Terminal</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
250°F	"Water"	US	.250" Spade	1/4, 3/8, 1/2	310 2391
250°F	"Water"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	310 2392

**Fluid Temperature Gauges, Mechanical, 2 1/16" (52mm) dia.**

<u>Description</u>	<u>Capillary Length</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
110-265°F	96"	"Water"	½-14NPT	180 204	180 204B
120-340°F	96"	"Oil"	½-14NPT	180 208	180 208B

see pages 33-36 for pressure, temperature and fuel level sender tables

## Cylinder Head Temperature Gauges, Electrical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
600°F	Cyl. Head Temp	.250" Spade	310 241	310 241B
600°F complete kit (with sender)	Cyl. Head Temp	.250" Spade	310 902	
14mm dia. thermal sender (included in kit)			323 701	
12mm dia. thermal sender			323 705	
Replacement 15' intermediate lead wire			240 701	

## Pyrometer, electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>On Dial</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
250-1650°F	"°F"	310 210	310 210B
Kit with 12' lead wire		310 240	
Pyrometer sender only		323 892	
30' extension wire		240 092	
Weld-on adapter		240 863	

## Oil Pressure Gauges, Electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
80PSI	10-180	"Oil"	.250" Spade	1	350 240	350 240B

## Oil Pressure Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Terminal</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
80PSI	"Oil"	US	.250" Spade	1/4, 3/8, 1/2	350 2401
80PSI	"Oil"	Metric	.250" Spade	M10,12,14,16, 1/8BSP	350 2402

## Oil Pressure Gauges, Mechanical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
100PSI	"Oil"	1/8-27NPT	150 202	150 202B
Tubing kit not included, see page 39				

## Oil Pressure Gauges Kit, Mechanical, Includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
100PSI	"Oil"	US	1/4, 3/8, 1/2	150 2021
100PSI	"Oil"	Metric	M10,12,14,16, 1/8BSP	150 2022

## Boost Pressure Gauges, mechanical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
15PSI	"Boost"	1/8-27NPT	150 211	150 211B
Tubing kit not included, see page 39				

## Vacuum Pressure Gauges, mechanical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
30"Hg	"Vacuum"	1/8-27NPT	150 212	150 212B
Tubing kit not included, see page 39				

## Turbo Boost Pressure Gauges, mechanical, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
30Hg/25PSI	"Turbo"	1/8-27NPT	150 206	150 206B

Tubing kit not included, see page 39

## Turbo Boost Pressure Gauges Kit, mechanical, includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Single Pack Part No.</u>
30Hg/25PSI	"Turbo"	US	150 2061
30Hg/25PSI	"Turbo"	Metric	150 2062

## Fuel Level Gauges, Electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
E-F	10-180	"Fuel"	.250" Spade	I	301 216	301 216B

## Voltmeter, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8-16V	"Volts"	.250" Spade	332 241	332 241B

see pages 33-36 for pressure, temperature and fuel level sender tables

The Series 1 line of instruments was designed to provide the traditional style of the '50s and '60s while maintaining all the modern quality and functions of today. A brilliant chrome ring accents the timeless black dial and white pointer. Adapts well to a modern race car or a retro custom project. All instruments have metal housings and stud-type electrical connections.



### Series 1

Instrument panels not included

- Distinctive, American graphics
- Classic styled, polished chrome bezels
- Proven and reliable VDO technology

## Complete Instrument Kits

Eliminate the guess work! VDO instrument kits feature our accurate and reliable instruments along with matched senders, electrical connectors and instructions to provide trouble free installation and years of service.

Mechanical speedometer instrument kits include:

- 3 3/8" (85mm) 120mph mechanical speedometer with 5/8-18 thread and 1.0 ratio
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

Application

Kit #

Universal

600 907

All 5 gauge instrument kits include:

- 3 3/8" (85mm) 120mph programmable speedometer with trip odometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

Application

Kit #

GM & Chrysler (w/ threaded speedo sender)

600 925

Ford & Chrysler (w/ push in speedo sender)

600 9251

All 6 gauge instrument kits include:

- 3 3/8" (85mm) 120mph programmable speedometer with trip odometer
- 3 3/8" (85mm) 7,000rpm tachometer
- 2 1/16" (52mm) 80psi oil pressure
- 2 1/16" (52mm) 250F temp gauge
- 2 1/16" (52mm) fuel gauge
- 2 1/16" (52mm) voltmeter
- Hall Effect speedometer sender
- 1/8-27NPT oil pressure sender
- 3/8-18NPT temperature sender
- SAE 5 hole flange adjustable fuel sender
- All instrument connectors & terminals
- 1/4, 3/8 & 1/2 adapters for pressure sender
- 1/2 adapter for temperature sender
- Fuel sender mounting hardware & gasket
- All Instructions

Application

Kit #

GM & Chrysler (w/ threaded speedo sender)

600 9256

Ford & Chrysler (w/ push in speedo sender)

600 92516

## Electronic Speedometer w/ resettable LCD trip odometer.

Can be used with Hall Effect and inductive senders, or most electronic controlled transmission outputs. 3 3/8" (85mm) dia. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	3 3/8" (85mm) dia.	.250" Spade	437 353	437 353B
160mph	3 3/8" (85mm) dia.	.250" Spade	437 354	437 354B

## Mechanical Speedometer 5/8-18 thread, 1.0 ratio

<u>Description</u>	<u>Size</u>	<u>Fitting</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
120mph	3 3/8" (85mm) dia.	5/8-18	120 302	120 302B

## Tachometer

For use on 4,6,8 cylinder applications with standard coil ignitions, most square wave electronic control ignitions with tachometer output terminal and alternators with "W" tachometer terminal. 3 3/8" (85mm) dia. 12V

<u>Description</u>	<u>Size</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
4000RPM	3 3/8" (85mm) dia.	.250" Spade	333 353	333 353B
7,000RPM	3 3/8" (85mm) dia.	.250" Spade	333 355	333 355B

## Fluid Temperature Gauges, Electrical, 2 1/16" (52mm) dia. 12V

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
250°F	VDO	"Water"	.250" Spade	A	310 304	310 304B
300°F	VDO	°F	.250" Spade	B	310 312	310 312B
400°F	VDO	"Trans"	.250" Spade	C	310 303	310 303B

see pages 33-36 for pressure, temperature and fuel level sender tables

**Fluid Temperature Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Thread Type	Terminal	Adapter Incl.	Single Pack Part No.
250°F	"Water"	US	M4 Stud	1/4, 3/8, 1/2	310 3041
250°F	"Water"	Metric	M4 Stud	M10,12,14,16, 1/8BSP	310 3042
300°F	°F	US	M4 Stud	1/4, 3/8, 1/2	310 3051
300°F	°F	Metric	M4 Stud	M10,12,14,16, 1/8BSP	310 3052
400°F	"Trans"	US	M4 Stud	1/4, 3/8, 1/2	310 3031
400°F	"Trans"	Metric	M4 Stud	M10,12,14,16, 1/8BSP	310 3032

**Fluid Temperature Gauges, Mechanical, 2 1/16" (52mm) dia.**

Description	Capillary Length	On Dial	Fitting Size	Single Pack Part No.	10 Pack Part No.
110-265°F	48"	"Water"	½-14NPT	180 310	180 310B
110-265°F	72"	"Water"	½-14NPT	180 301	180 301B
110-265°F	144"	"Water"	½-14NPT	180 302	180 302B
110-265°F	288"	"Water"	½-14NPT	180 308	180 308B
120-340°F	72"	"Oil"	½-14NPT	180 315	180 315B
120-340°F	72"	"Oil"	½-14NPT	180 317	180 317B

**Oil Pressure Gauges, Electrical 2 1/16" (52mm) dia. 12V**

Description	Ohm Range	On Dial	Terminal	Sender Table	Single Pack Part No.	10 Pack Part No.
80PSI	10-180	"Oil"	M4 Stud	1	350 303	350 303B
100PSI	10-180	"Oil"	M4 Stud	2	350 306	350 306B

**Oil Pressure Gauge Kits, Electrical, includes sender, 2 1/16" (52mm) dia. 12V**

Description	On Dial	Thread Type	Terminal	Adapter Incl.	Single Pack Part No.
80PSI	"Oil"	US	M4 Stud	1/4, 3/8, 1/2	350 3031
80PSI	"Oil"	Metric	M4 Stud	M10,12,14,16, 1/8BSP	350 3032
100PSI	"Oil"	US	M4 Stud	1/4, 3/8, 1/2	350 3061
100PSI	"Oil"	Metric	M4 Stud	M10,12,14,16, 1/8BSP	350 3062

**Oil Pressure Gauges, Mechanical, 2 1/16" (52mm) dia.**

Description	On Dial	Fitting Size	Single Pack Part No.	10 Pack Part No.
100PSI	"Oil"	1/8-27NPT	150 330	150 330B
150PSI	"Oil"	1/8-27NPT	150 306	150 306B

Tubing kit not included, see page 39

**Oil Pressure Gauges Kit, Mechanical, Includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.**

Description	On Dial	Thread Type	Adapter Incl.	Single Pack Part No.
100PSI	"Oil"	US	1/4, 3/8, 1/2	150 3301
100PSI	"Oil"	Metric	M10,12,14,16, 1/8BSP	150 3302
150PSI	"Oil"	US	1/4, 3/8, 1/2	150 3061
150PSI	"Oil"	Metric	M10,12,14,16, 1/8BSP	150 3062

**Turbo Boost Gauge, mechanical, 2 1/16" (52mm) dia.**

Description	On Dial	Fitting Size	Single Pack Part No.	10 Pack Part No.
0-30in Hg to 0-25PSI	"Turbo"	1/8-27NPT	150 361	150 361B

Tubing kit not included, see page 39

**Turbo Boost Gauge Kit, mechanical, includes 6ft of tubing and adapters, 2 1/16" (52mm) dia.**

<u>Description</u>	<u>On Dial</u>	<u>Thread Type</u>	<u>Adapter Incl.</u>	<u>Single Pack Part No.</u>
0-30in Hg to 0-25PSI	"Turbo"	US	1/4, 3/8, 1/2	150 3611
0-30in Hg to 0-25PSI	"Turbo"	Metric	M10,12,14,16, 1/8BSP	150 3612

**Vacuum Gauge, mechanical, 2 1/16" (52mm) dia.**

<u>Description</u>	<u>On Dial</u>	<u>Fitting Size</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
0-30in Hg	"Vacuum"	1/8-27NPT	150 301	150 301B

Tubing kit not included, see page 39

**Vacuum Gauge Kit, mechanical, includes 6ft of tubing and T-adapter, 2 1/16" (52mm) dia.**

<u>Description</u>	<u>On Dial</u>	<u>Single Pack Part No.</u>
0-30in Hg	"Vacuum"	150 302

**Fuel Level Gauges, Electrical, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>Ohm Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Sender Table</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
E-F	10-180	"Fuel"	M4 Stud	I	301 301	301 301B
E-F	0-90	"Fuel"	M4 Stud	III	301 303	301 303B

**Voltmeter, 2 1/16" (52mm) dia. 12V**

<u>Description</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
8-16V	"Volts"	M4 Stud	332 341	332 341B
8-16V, with colorband	"Volts"	M4 Stud	332 342	332 342B

**Ammeter (non-shunted), electrical, 2 1/16" (52mm) dia.**

<u>Description</u>	<u>Range</u>	<u>On Dial</u>	<u>Terminal</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
60 Amp	60/0/60	"Amp"	M4 Stud	190 301	190 301B





370 155



370 955



370 100B



370 101



3701101



3704101



3701151



3704151

Accurate and reliable, VDO clocks are available in styles to compliment most instrument lines

<u>Dial Color</u>	<u>Bezel Color</u>	<u>Adjustment</u>	<u>Size</u>	<u>Single Pack Part No.</u>
Black	Black	Electric	2 1/16" (52mm) dia.	370 155
Black	Black	Electric	2 1/16" (52mm) dia.	370 955
Black	Black	Manual	2 1/16" (52mm) dia.	370 100B
White	Black	Manual	2 1/16" (52mm) dia.	370 101
Black	Black	Electric	2 1/16" (52mm) dia.	3701101
Black	Chrome	Electric	2 1/16" (52mm) dia.	3704101
White	Black	Electric	2 1/16" (52mm) dia.	3701151
White	Chrome	Electric	2 1/16" (52mm) dia.	3704151

# Mini-Pressure Gauges

1 1/2" outside diameter, direct mount, 1/8"-27 NPT connection. For direct-mount monitoring of fuel and oil pressure systems, rely on VDO 1 1/2" dia. mechanical pressure gauges. Precision-machined brass movements, built-in restrictors and steel housings give you the accuracy and durability you need. Compatible with all fuel management systems from carburetion to fuel injection. 100 PSI gauge can be used for direct-mount oil pressure readings. Chrome pressure gauges feature black numbers on white dial, black pointer, and chrome bezel/housing. Black pressure gauges feature white numbers on black dial, red pointer, and black bezel/housing. Silver pressure gauges feature black numbers on silver dial with black pointer and chrome bezel/housing.

Description	PSI	Size (diameter)	Dial Color	Single Pack Part No.
Mini Pressure Gauge	15	1.5"	White	153 002
Mini Pressure Gauge	100	1.5"	White	153 003
Mini Pressure Gauge	60	1.5"	White	153 005
Mini Pressure Gauge	15	1.5"	Black	153 006
Mini Pressure Gauge	30	1.5"	Black	153 007
Mini Pressure Gauge	60	1.5"	Black	153 008
Mini Pressure Gauge	100	1.5"	Black	153 009
Mini Pressure Gauge	15	1.5"	Silver	153 110
Mini Pressure Gauge	100	1.5"	Silver	153 112
Mini Pressure Gauge	60	1.5"	Silver	153 111

NOTE: Not for direct fuel pump mounting. Non-illuminated.



153 002



153 003



153 005



153 006



153 009



153 008



153 110



153 112



153 111

Note: All Pressure senders are designed to work with VDO gauges only, unless otherwise noted. Senders are matched to gauges according to maximum reading on dial face. All senders are standard ground (sender case to common ground) Please note: VDO senders have tapered threads and DO NOT require the use of Teflon tape or pipe sealant. This will interfere with grounding causing incorrect instrument readings.

## Pressure Sender Kits

PSI	Thread	Ground	Ohm	# Stamped on Sender	Washer Required	Single Pack Part No.
80	1/4, 3/8, 1/2	common	10-180	29/4	No	360-900
150	1/4, 3/8, 1/2	common	10-180	29/12	No	360-905



Pressure Sender Kits

## Pressure Senders

**Table 1: 80 PSI/5bar (10-1800hm)**

Thread	Ground	Warning Contact (PSI)	Ohm	# Stamped on Sender	Washer Required	Single Pack Part No.	10 Pack Part No.
1/8-27	common		10-180	29/4	No	360 003	360 003B
1/4-18	common		10-180	29/8	No	360 005	360 005B
M10x1	common		10-180	29/1	No	360 001	360 001B
M12x1.5	common		10-180	29/85	Yes	360 002	360 002B
M14x1.5	common		10-180	29/26	Yes	360 027	360 027B
1/4-18	common	8	10-180	30/20	No	360 019	360 019B
M10x1	common	7	10-180	30/2	No	360 006	360 006B
M12x1.5	common	8.5	10-180	30/6	Yes	360 007	360 007B
1/8-27	common	7	10-180	30/23	No	360 009	360 009B
M14x1.5	common	7.1	10-180	30/28	Yes	360 028	360 028B
M10x1	common	12	10-180	30/4	No	360 034	360 034B



Pressure Senders without low pressure warning contact

**Table 2: 100PSI/7bar (10-1800hm)**

Thread	Ground	Warning Contact (PSI)	Ohm	# Stamped on Sender	Washer Required	Single Pack Part No.	10 Pack Part No.
1/8-27	common		10-180	655	No	360 086	360 086B



Pressure Senders with low pressure warning contact

**Table 3: 150PSI/10bar (10-1800hm)**

Thread	Ground	Warning Contact (PSI)	Ohm	# Stamped on Sender	Washer Required	Single Pack Part No.	10 Pack Part No.
1/8-27	common		10-180	29/12	No	360 004	360 004B
1/4-18	common		10-180	29/20	No	360 021	360 021B
1/8-28BSP	common		10-180	29/62	No	360 081	360 081B
M10x1	common		10-180	29/10	No	360 015	360 015B
M10x1	common	7	10-180	30/9	No	360 023	360 023B
M12x1.5	common	7	10-180	30/22	Yes	360 024	360 024B
1/8-27	common	11.4	10-180	30/15	No	360 025	360 025B
M10x1	common	29.6	10-180	30/41	No	360 033	360 033B



Pressure Sender

## Pressure switches

**Our Heavy Duty Pressure Switches are compact and compatible with a wide variety of fluids, making them ideal for most engine, brake, hydraulic and air system applications. All switches are provided with an insulated ground terminal to assure a quality ground circuit.**

PSI	Thread	Ground	Circuit	Single Pack Part No.	10 Pack Part No.
4	1/8-27	Insulated	Normally Open	230 404	230 404B
15	1/8-27	Insulated	Normally Open	230 415	230 415B
60	1/8-27	Insulated	Normally Open	230 460	230 460B

For warning lights see page 40

Warning Notice: VDO mechanical oil pressure senders are not to be used with any type of fuel application. VDO mechanical pressure senders may be used in motor vehicles and boats only. VDO mechanical oil pressure senders are not suitable for use in aircraft or any other purposes. NO OTHER USE OR APPLICATION IS RECOMMENDED. ANY OTHER USE OR APPLICATION WILL AUTOMATICALLY VOID ANY WARRANTY. CONTINENTAL WILL NOT BE RESPONSIBLE FOR THE IMPROPER USE OF THE MECHANICAL OIL PRESSURE SENDERS.



Pressure Switch

# Temperature Senders and Switches

Note: All Temperature senders are designed to work with VDO gauges only. Senders are matched to gauges according to maximum reading on dial face All senders are standard ground (sender case to common ground) Please note: VDO senders have tapered threads and DO NOT require the use of Teflon tape or pipe sealant. This will interfere with grounding causing incorrect instrument readings.



## Universal Sender Kits

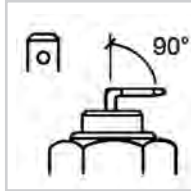
VDO universal sender kits include 1/8-27NPT common ground temperature sender, spade connector and US thread adapter kit for 1/4-18, 3/8-18 and 1/2-14 NPT threads.

Description	Single Pack Part No.
250°F/120°C Sender kit	323 900
300°F/150°C Sender kit	323 905

## Temperature Senders



**Connector 1**  
**.250" Spade**



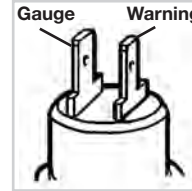
**Connector 2**  
**.250" Spade at 90° angle**



**Connector 3**  
**56 Series "Packard"**



**Connector 4**  
**1 Pole common ground M4 stud or knurled nut**



**Connector 7**  
**.187" Spade**

**Table A: 250°F/120°C**

Temp	Thread	Connector	Number on Sender:	Ground	Warning Contact	Single Pack Part No.	10 Pack Part No.
250°F/120°C	M14x1.5	4	801/1/26	Common		323 416	323 416B
250°F/120°C	M16x1.5	4	801/1/29	Common		323 417	323 417B
250°F/120°C	M18x1.5	1	801/1/22	Common		323 418	323 418B
250°F/120°C	1/2-14NPT	4	801/1/16 or 116	Common		323 419	323 419B
250°F/120°C	1/4-18NPT	1	801/1/9	Common		323 420	323 420B
250°F/120°C	3/8-18NPT	4	801/1/3 or 118	Common		323 421	323 421B
250°F/120°C	5/8-18UNF	1	801/1/8	Common		323 422	323 422B
250°F/120°C	1/8-27NPT	3	801/5/1 or 151	Common		323 095	323 095B
250°F/120°C	M10x1.0	3	801/17/1	Common		323 088	323 088B
250°F/120°C	1/2-14NPT	7	803/1/19	Common	205°F	323 098	323 098B
250°F/120°C	1/2-14NPT	7	803/1/25 or 315	Common	217°F	323 099	323 099B
250°F/120°C	1/2-14NPT	7	803/1/32	Common	230°F	323 100	323 100B
250°F/120°C	M14x1.5	7	803/1/6	Common	205°F	323 102	323 102B
250°F/120°C	5/8-18UNF	7	803/1/2	Common	209°F	323 026	323 026B
250°F/120°C	M16x1.5	7	803/1/7	Common	230°F	323 028	323 028B

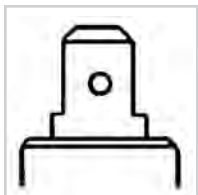
**Table B: 300°F/150°C**

Temp	Thread	Connector	Number on Sender:	Ground	Warning Contact	Single Pack Part No.	10 Pack Part No.
300°F/150°C	M10x1.0	3	801/9/3	Common		323 423	323 423B
300°F/150°C	M12x1.5	3	801/10/3	Common		323 092	323 092B
300°F/150°C	M14x1.5	2	801/12/2	Common		323 055	323 055B
300°F/150°C	M16x1.5	2	801/12/1	Common		323 056	323 056B
300°F/150°C	1/8-27NPT	3	801/9/1 or 191	Common		323 057	323 057B
300°F/150°C	1/4-18NPT	4	801/4/17	Common		323 058	323 058B
300°F/150°C	3/8-18NPT	1	801/4/15 or 145	Common		323 059	323 059B
300°F/150°C	1/2-14NPT	4	801/4/6	Common		323 060	323 060B
300°F/150°C	5/8-18UNF	4	801/4/9 or 149	Common		323 061	323 061B
300°F/150°C	M18x1.5	2	801/12/3	Common		323 064	323 064B
300°F/150°C	1/2-14NPT	7	803/2/15	Common	250°F	323 120	323 120B

**Table C: 400°F/200°C**

Temp	Thread	Connector	Number on Sender:	Ground	Warning Contact	Single Pack Part No.	10 Pack Part No.
400°F/200°C	M10x1.0	3	801/3/1	Common		323 091	323 091B
400°F/200°C	1/8-27NPT	3	801/13/1 or 131	Common		323 050	323 050B

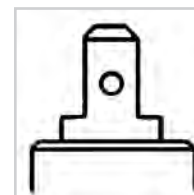
## Temperature Switches



**Connector A**  
**.250" Spade**



**Connector C**  
**Hex nut**



**Connector D**  
**.187" Spade**

<u>Switch Point Temp</u>	<u>Thread</u>	<u>Connector</u>	<u>Max Temp</u>	<u>Single Pack Part No.</u>	<u>10 Pack Part No.</u>
194°F/90°C	M10X1.5	C	250°F/120°C	232 001	232 001B
194°F/90°C	1/8 x 27NPT	C	250°F/120°C	232 007	232 007B
221°F/105°C	1/8 x 27NPT	C	250°F/120°C	232 008	232 008B
203°F/95°C	1/2 x14NPT	A	250°F/120°C	232 012	232 012B
158°F/70°C	M14x1.5	A	250°F/120°C	232 013	232 013B
216°F/102°C	1/2 x14NPT	A	250°F/120°C	232 015	232 015B
217°F/103°C	3/8 x 18NPT	A	250°F/120°C	232 017	232 017B
221°F/105°C	3/8 x 18NPT	D	250°F/120°C	232 019	232 019B

For warning lights see page 40



## Plated Steel Construction

Designed for severe duty use, each of these senders contains an SAE standard five hole metal mounting flange and body components which can be adjusted from 6" to 23" tank depth. Adaptable to right hand or left hand swing arm. Each contains thick film resistor technology for greater resistance to wear associated with standard wire wound units. Each kit contains neoprene mounting gasket and mounting screws.

For tanks without flange mounting holes our optional tank mounting kit may be used.

## Composite Construction

Our newest and most economical line of adjustable senders contain SAE standard five hole configuration and thick film resistor technology. These senders also are available with low fuel warning contact. Sender mounting gasket and hardware is included when bought in single pack version only.

Table I: Fuel Level Senders 10-180ohm		Ohm Range	Tank Depth Min	Tank Depth Max	Single Pack	Bulk Pack
Without low fuel warning contact	Plated steel Construction	10-180	6	23	226 001	226 001B
Without low fuel warning contact, with mounting kit	Plated steel Construction	10-180	6	23	226 002	226 002B
With low fuel warning contact	Composite	10-180	6	15¾	226 162	226 162B
Without low fuel warning contact	Composite	10-180	6	15¾	226 168	226 168B
Table II: Fuel Level Senders 240-330ohm						
Without low fuel warning contact	Plated steel Construction	240-33	6	23	226 007	
With low fuel warning contact	Composite	240-33	6	15¾	226 163	226 163B
Without low fuel warning contact	Composite	240-33	6	15¾	226 169	226 169B
Table III: Fuel Level Senders 0-900ohm						
Without low fuel warning contact	Plated steel Construction	0-90	6	23	226 008	
With low fuel warning contact	Composite	0-90	6	15¾	226 164	226 164B
Without low fuel warning contact	Composite	0-90	6	15¾	226 170	226 170B
Table IV: Fuel Level Sender VW						
O.E. VW Beetle (air cooled)	Plated steel Construction	10-65			221 012	221 012B



O.E. VW Beetle



Plated Steel Construction

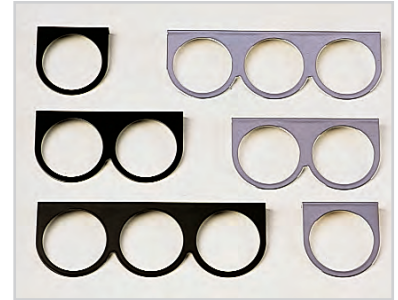


Composite Construction



**Mounting Brackets**

<u>Description</u>	<u>Gauge size</u>	<u>Style</u>	<u>Panel Dimension</u>	<u>Single Pack Part No.</u>
1 gauge mounting bracket	2 1/16" (52mm)	Black	2 7/8H X 2 11/16L	240 027
2 gauge mounting bracket	2 1/16" (52mm)	Black	2 7/8H X 5 3/16L	240 028
3 gauge mounting bracket	2 1/16" (52mm)	Black	2 7/8H X 7 1/2L	240 029
1 gauge mounting bracket	2 1/16" (52mm)	Chrome	2 7/8H X 2 11/16L	240 034
2 gauge mounting bracket	2 1/16" (52mm)	Chrome	2 7/8H X 5 3/16L	240 035
3 gauge mounting bracket	2 1/16" (52mm)	Chrome	2 7/8H X 7 1/2L	240 036



**Mounting Brackets**

**Adjustable Mounting Cups**

Durable ABS construction with matte black finish

<u>Description</u>	<u>Gauge size</u>	<u>Style</u>	<u>Single Pack Part No.</u>
1 gauge mounting cup, long	2 1/16" (52mm)	Black	240 101



**Adjustable Mounting Cups**

**Steel mounting cups with smooth black or chrome finishes**

<u>Description</u>	<u>Gauge size</u>	<u>Style</u>	<u>Single Pack Part No.</u>
1 gauge mounting cup	2 1/16" (52mm)	Black	240 016*
1 gauge mounting cup	3 3/8" (85mm)	Black	240 018
1 gauge mounting cup	2 1/16" (52mm)	Chrome	240 017*
1 gauge mounting cup	3 3/8" (85mm)	Chrome	240 019

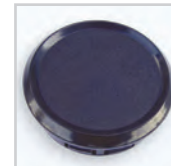


**Mounting Cups**

\* will not work with 2 1/16" (52mm) dia. clocks, tachometers, outside temperature gauges or pyrometers, please use part number 240 101

**Instrument Panel Hole Covers**

<u>Description</u>	<u>Single Pack Part No.</u>
2 1/16" ( 52MM)	240 864
3 3/8" (85MM)	240 866



**Instrument Panel Hole Cover**

**Anti-Glare Rings**

<u>Description</u>	<u>Single Pack Part No.</u>
2pk. for 2 1/16" (52mm) gauges	240 005



**Anti Glare Rings**

**Aircooled VW Beetle Dash Panel**

<u>Description</u>	<u>Style</u>	<u>Single Pack Part No.</u>
VW panel, left for 3 2 1/16" gauges	2 1/16" (52mm)	Black

# Service Parts and Accessories

## Mounting Accessories for Vision Family, Cockpit Family and Series 1 Instruments

### Description

Stud mounting kit for 80/85mm instruments (non-Viewline)  
 Stud mounting kit for 52mm instruments (non-Viewline)  
 Spin Lok for 2 1/16" (52MM)  
 Spin Lok for 3 1/8" (80MM)  
 Spin Lok for 3 3/8" (85MM)

### Single Pack Part No.

600 401  
 600 402  
 600 404  
 600 405  
 600 406



Stud Mounting Kit

## Mounting Accessories for Viewline Family instruments

### Description

Viewline stud conversion kit  
 Spin Lok for 3 3/8" (85MM)  
 Spin Lok for 2 1/16" (52MM)  
 Viewline flush mount adapter for 3 3/8" (85mm)  
 Viewline flush mount adapter for 2 1/16" (52mm)

### Single Pack Part No.

600 411  
 600 412  
 600 404  
 600 409  
 600 410

## Instrument Wiring Harnesses and Accessories for Vision Family, Cockpit Family and Series 1 Instruments

### Description

Ammeter wiring kit  
 5 and 6 instrument wire harness w/ insulated connectors for VDO instruments  
 (note: wire harness 240 022 will not work with Series 1 instruments)  
 Universal wire kit for 1 gauge  
 6 Pin tach/speedo connector with terminal end (except Viewline)  
 8 Pin tach/speedo connector with terminal end (except Viewline)  
 Pyrometer extension cable (30ft)  
 Replacement cylinder head extension cable (15ft)  
 14mm sender for cylinder head temperature gauge  
 12mm sender for cylinder head temperature gauge  
 Replacement sender for outside temperature gauge  
 100 pk. .25" blade terminals  
 3-prong instrument connector with terminals - single pack  
 3-prong instrument connector with terminals -100 pack  
 (note: 3 prong connector 240 025 will not work with Series 1 instruments)

### Single Pack Part No.

240 021  
 240 022  
 240 023  
 240 053  
 240 024  
 240 092  
 240 701  
 323 701  
 323 705  
 323 087  
 240 045  
 240 025  
 240 025B



240 022



240 023

## Instrument Wiring Harnesses and Accessories for Viewline Family instruments

### Description

Viewline 8 pole connector with pins  
 Viewline 14 pole connector with pins

### Single Pack Part No.

240 098  
 240 099

## Viewline Replacement Bezels

### Description

52mm, black (triangular)  
 85mm, black (triangular)  
 52mm, chrome (triangular)  
 85mm, chrome (triangular)

### Single Pack Part No.

850 056  
 850 057  
 850 058  
 850 059



3-Prong Instrument Connector

## Tubing Kits for mechanical pressure instruments

<u>Description</u>	<u>Fitting size</u>	<u>Single Pack Part No.</u>
0-150PSI nylon tubing kit, 6ft	1/8-27 and 1/4-18 NPT adapters	150 851
0-150PSI nylon tubing kit, 16ft	1/8-27 and 1/4-18 NPT adapters	150 855
0-400 PSI copper tubing kit, 6ft	1/8-27 and 1/4-18 NPT adapters	150 856

Warning Note: Tubing kits are not for use on any aircraft, fuel or brake applications (vacuum, hydraulic or air)



**Nylon Tubing Kit**

## Universal Bushing Kits

Inside diameter 1/8-27NPT, for use with all pressure and temperature senders

<u>Description</u>	<u>Single Pack Part No.</u>
US thread bushing kit 1/4-18, 3/8-18 and 1/2-14 to 1/8-27 NPT	240 903
Metric thread busing kit M16x1.5, M14x1.5, M12x1.0, M10x1.0 & 1/8-28BSP to 1/8-27NPT	240 904



**Universal Bushing Kit**

## Adapters and Fittings

<u>Description</u>	<u>Single Pack Part No.</u>
T adaptor M10X1 for VW	240 850
T adaptor 1/8 NPT	240 855
Weld on adapter for pyrometer sender	240 863
Adapter for mechanical temp sender 5/8-18UNF to 1/2-14NPT	180 066
Adapter for mechanical temp sender 5/8-18UNF to 3/8-14NPT	180 067

## Speedometer Senders

<u>Description</u>	<u>Single Pack Part No.</u>
Standard, GM	340 011
GM, through-drive, for cruise control hook up	340 012
Standard, Ford	340 013
Ford, through-drive, for cruise control hook up	340 014



**GM Speedometer Sender**

## Fuel Sender Service Parts

<u>Description</u>	<u>Single Pack Part No.</u>
Replacement float for lever arm type senders	600 601
Adapter kit for Ford flange	226 902
Replacement neoprene gasket	226 053
SAE5 hole mounting flange kit	226 451
Composite Fuel Sender Installation Kit	600 408



**Ford Speedometer Sender**

## Replacement Bulbs

<u>Description</u>	<u>Wattage</u>	<u>Bulb Type</u>	<u>Single Pack Part No.</u>
9/32" (7mm)	2	A	600 802
11/32" (9mm)	2	B	600 804
11/32" (9mm)	4	B	600 806
3/8" (10mm)	2	C	600 820
Wedge base	3	E	600 815

## Replacement Bulb Sockets

<u>Description</u>	<u>Bulb Type</u>	<u>Single Pack Part No.</u>
Insulated 3/8" (10mm)	A	600 813
Steel 3/8" (10mm)	A	600 816
Brass 3/8" (10mm)	A	600 817
Steel 15/32" (12mm)	B	600 818
Insulated 15/32" (12mm)	B	600 819
Steel 5/8" (16mm)	C	600 821



**Bulb A**



**Bulb B**



**Bulb C**



**Bulb E**

## Optional Light Diffusers

The easy and convenient way to change the lighting color in your VDO gauge. Simply slips over the light bulb to give your dash a whole new color at night.

<u>Description</u>	<u>Bulb Type</u>	<u>Single Pack Part No.</u>
Red, 9/32" (7mm)	A	600 853
Green 9/32" (7mm)	A	600 856
Red, 11/32" (9mm)	B	600 857
Green, 11/32" (9mm)	B	600 858
Red, Wedge and 3/8" (10mm)	E & C	600 861
Green, Wedge and 3/8" (10mm)	E & C	600 862
Blue, Wedge and 3/8" (10mm)	E & C	600 863
Amber, Wedge and 3/8" (10mm)	E & C	600 864



**Diffusers**

## Optional In-dash warning lights 12V, snap-in warning lights with bulb. These require a 9/32" hole.

<u>Description</u>	<u>Single Pack Part No.</u>
Red	600 844
Green	600 845
Yellow	600 846
Blue	600 847



**Warning Lights**



**Continental**  
**Commercial Vehicles & Aftermarket**  
6755 Snowdrift Road  
Allentown, PA 18106  
USA  
Tel: (610) 289-0488  
Fax: (610) 289-1766  
E-mail: [salesupport-us@vdo.com](mailto:salesupport-us@vdo.com)  
[www.vdo.com](http://www.vdo.com)  
VDO - A trademark of the Continental Corporation

**Customer Service**  
Tel: (800) 564-5066 or (610) 366-8489  
Fax: (800) 752-7224 or (610) 366-9837

**Technical Support**  
Tel: (800) 265-1818 or (610) 289-1390  
Email: [techsupport-us@vdo.com](mailto:techsupport-us@vdo.com)

We reserve the right to make changes in availability as well as technical changes without prior notice.

Not intended for aircraft applications.

Part #VAMC1008 | English © 2008  
Continental Corporation  
Printed in the USA

