

Series I

ODY-03 OIL PRESSURE rev. C ODY-10 FUEL PRESSURE rev. C ODY-19 AIR PRESSURE rev. C

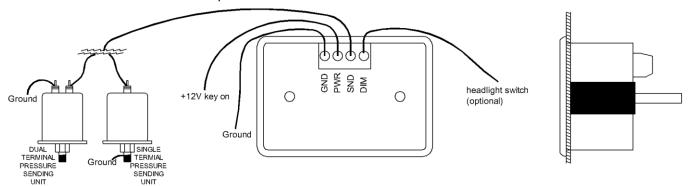
Wiring:

GND - Connect to a main ground location.

PWR - Connect to switched 12 VDC power. (An accessory terminal will work for this)

DIM - Night Dimming: connect to the head light switch.

SND - Connect to the pressure sender.



Mounting:

The Series I gauge requires a rectangular hole 2-9/16" x 1-11/16". . It should be inserted into the opening from the front and the U-clamp will be installed from the back. Tighten the two nuts on the U-clamp so that the gauge is secure. Gauge depth to the back of the case is 1". Gauge depth including the mounting studs is 1-7/8".

Factory settings:

Sender type: SEN-03-1, 150 psi.

Lo warning point: 10 psi. Hi warning point: 100 psi.

- The oil pressure gauge will operate and read correctly between the pressure range of 0-400 psi, 0-150 psi, 0-75 psi, or 0-30 psi depending on the sender type.
- This gauge has a user adjustable low and high warning level, which can be set to indicate when the pressure is too low or too high.

Sender choices:

Max. Pressure	Display Resolution	Sender Part Number
150 psi	1.0	SEN-03-1 or SEN-03-3
400 psi	2.0	SEN-03-5
73 psi	0.5	SEN-10-2
29 psi	0.2	SEN-10-1
	150 psi 400 psi 73 psi	400 psi 2.0 73 psi 0.5

These senders have a 1/8" NPT fitting, except for the SEN-03-3 which has 10mm. The engine and sender threads should be cleaned before installation and no tape or sealant should be used on the threads. The threads are self-sealing. On single terminal senders, if the sender is mounted away from the engine the sender case must be grounded. On dual terminal senders either terminal is connected to the gauge GND and the remaining terminal is connected to SND. Contact Dakota Digital if you need to special order a metric thread sender.

The sender must be a Dakota Digital part SEN-03-1, 03-3, 03-5, 10-1, or 10-2. Sending units from other manufacturers will cause incorrect readings. If a sender is not connected properly, the display will show "EEE". If the SND terminal is shorted to ground, the display will show "---".

Setting the warning limits, sender setup, and update speed:

The SND terminal is used to enter and change the warning settings. You will need a wire connected to the SND terminal that can be momentarily grounded while you watch the gauge. The headlights should be off or the DIM terminal unhooked so that it does not interfere with the setup.

- 1. To enter the set mode, turn the key on with the SND wire not grounded. The gauge will display "5EL".
- 2. Ground the SND wire. The gauge will display "P5 I". (If you wait too long the gauge will exit the setup routine and you will need to repeat step #1).
- 3. Release the SND wire. The gauge will display the current setup. "150" is for 150psi, "400" is for 400psi, "75" is for 75psi, and "∃0" is for 30psi senders.
- 4. Each time you momentarily ground the SND wire the setup will change.
- 5. When the desired setup value is displayed, keep the SND wire grounded for about 2 seconds. The gauge will display " L D".
- 6. Release the SND wire. The gauge will display the current low warning pressure.
- 7. Each time you momentarily ground the SND wire the number will change.
- 8. When the desired low warning value is displayed, keep the SND wire grounded for about 2 seconds. The gauge will display "H i".
- 9. Release the SND wire. The gauge will display the current high warning pressure.
- 10. Each time you momentarily ground the SND wire the number will change.
- 11. When the desired high warning value is displayed, keep the SND wire grounded for about 2 seconds. The gauge will display "5Pd".
- 12. Release the SND wire. The gauge will display the current update speed (slow or fast).
- 13. Each time you momentarily ground the SND wire the speed setting will change.
- 14. When the desired update speed is displayed, keep the SND wire grounded for about 2 seconds. The gauge will display "--".
- 15. Turn the key off.

Troubleshooting guide.

Problem	Possible cause	Solution
Gauge will not light up	PWR terminal does not have power.	Connect to a location that has power.
	GND terminal does not have a good ground.	Connect to a different ground location.
	Gauge is damaged.	Return gauge for service. (see instructions)
Gauge lights up, but does	Loose connection on SND terminal.	Reconnect wire.
not read correctly.	Poor ground connection.	Move ground to different location
	Gauge is sender setup is incorrect.	See "Setting sender setup" in the manual.
	Voltage or wiring problem in the vehicle wiring harness.	Check wiring harness for loose or damaged wires.
Gauge lights up, but displays "ErD".	Gauge is damaged.	Gauge must be returned for service. (see instructions)
Gauge lights up, but displays	SND terminal is shorted to ground.	Check wire for damaged insulation. Replace if necessary.
	Sender is damaged.	Replace sender.
	Sender is not connected to gauge.	Connect SND terminal on gauge to sender terminal.
"EEE".	Wire between gauge and sender is broken.	Test and replace wire.
	Sender is not grounding properly. * single terminal sender	Sender grounds through it's mounting threads. Make sure the threads are clean. Do Not Use Tape or Sealant on Sender Threads.
	* dual terminal sender	The second terminal must be connected to the gauge ground.
	Sender is damaged.	Replace sender.
	Gauge is damaged.	Return gauge for service. (see instructions)
Gauge lights up, but displays	Gauge is sender setup needs to be	See "Setting sender setup" in the manual.
"ЕгЧ".	reset.	
Gauge lights up, but displays	Gauge warning points need to be	See "Setting the warning limits" in the manual.
"Er5".	reset.	
Gauge flashes constantly.	Warning limits are not set properly.	Reset warning limits.
	Pressure is too low or too high.	Check filter and pump.
Gauge will not dim.	DIM terminal is not connected correctly.	Check wiring connections.
Gauge remains dim at all	DIM terminal is getting power all	Connect DIM wire to location that only has power when the headlights
times.	of the time.	are on.
	Battery is very low.	Recharge or replace vehicle battery.
	Gauge is damaged.	Return gauge for service. (see instructions)

Technical specifications

Minimum operating voltage - 7 volts DC
Maximum operating voltage - 17 volts DC

(operating at or near maximum voltage for an extended time can damage unit)

Maximum pressure reading 150 psi 400 psi 73 psi 29 psi Gauge Resolution 1 psi 2 psi 0.5 psi 0.2 psi 0 - 720 - 374Low Warning Range 0 - 1440 - 27.644 – 150 106 - 39422 - 75High Warning Range 9.4 - 28.6Typical gauge accuracy ±2 psi ±4 psi ±8psi ±1.2 psi

Typical current draw (@ 13.8V) - 0.1 A

SERVICE AND REPAIR

DAKOTA DIGITAL offers complete service and repair of its product line. In addition, technical consultation is available to help you work through any questions or problems you may be having installing one of our products. Please read through the Troubleshooting Guide. There, you will find the solution to most problems.

Should you ever need to send the unit back for repairs, please call our technical support line, (605) 332-6513, to request a Return Merchandise Authorization number. Package the product in a good quality box along with plenty of packing material. Ship the product by UPS or insured Parcel Post. Be sure to include the RMA number on the package, and include a complete description of the problem with RMA number, your full name and address (street address preferred), and a telephone number where you can be reached during the day. Any returns for warranty work must include a copy of the dated sales receipt from your place of purchase. Send no money. We will bill you after repair.

Dakota Digital 24 Month Warranty

DAKOTA DIGITAL warrants to the ORIGINAL PURCHASER of this product that should it, under normal use and condition, be proven defective in material or workmanship within 24 MONTHS FROM THE DATE OF PURCHASE, such defect(s) will be repaired or replaced at Dakota Digital's option.

This warranty does not cover nor extend to damage to the vehicle's systems, and does not cover removal or reinstallation of the product. This Warranty does not apply to any product or part thereof which in the opinion of the Company has been damaged through alteration, improper installation, mishandling, misuse, neglect, or accident.

This Warranty is in lieu of all other expressed warranties or liabilities. Any implied warranties, including any implied warranty of merchantability, shall be limited to the duration of this written warranty. Any action for breach of any warranty hereunder, including any implied warranty of merchantability, must be brought within a period of 24 months from date of original purchase. No person or representative is authorized to assume, for Dakota Digital, any liability other than expressed herein in connection with the sale of this product.

▲WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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