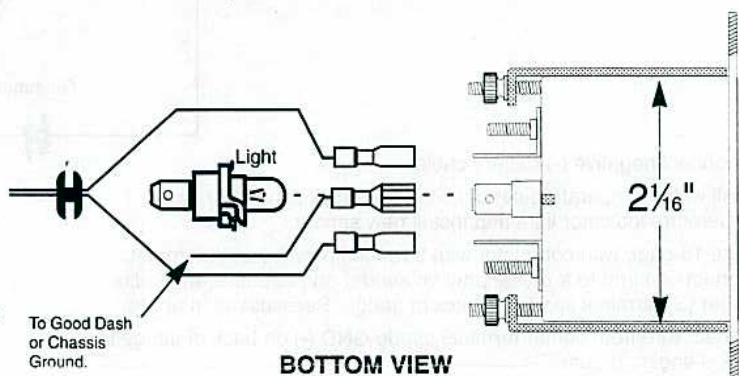


Instr. No. 2650-430A

Mounting

These gauges can be mounted in a 2 1/16" dia. hole. Fasten with brackets supplied as shown. (Hookup wire is required.) To assure proper functioning of this instrument, please read instructions thoroughly before installing.

NOTE: Some late model vehicles use electronic sensors in their pressure and temperature senders for engine control functions. Before removing the original sender, we recommend that you contact your automotive dealer to be sure no critical functions will be disrupted. With pressure gauges it is beneficial to add a T-fitting to install your new gauge and to keep the warning light operational. This allows you to monitor the pressure and still have a warning light to indicate emergency conditions.

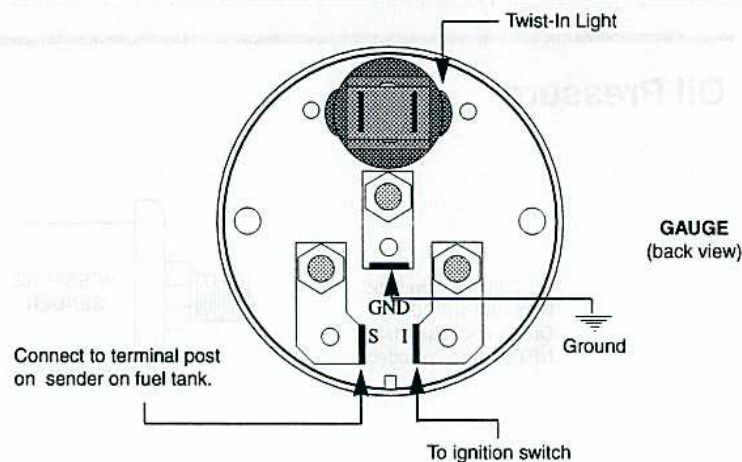


Fuel Level

1. Disconnect negative (-) battery cable.
2. Gauge uses Model M-10871-A962 fuel sender on fuel tank. Existing wires may be used, or route proper length of 18 gage, 2 conductor wire from fuel tank to gauge. Connect one end to terminal post on fuel level sender and the opposite end to the sender (S) terminal spade on back of gauge. See illustration at right.
3. Connect wire from center terminal spade on back of gauge GND (-) to ground on fuel tank.
4. Connect wire from ignition switch to the positive I (+) terminal spade on the back of gauge. See figure above.

CAUTION:

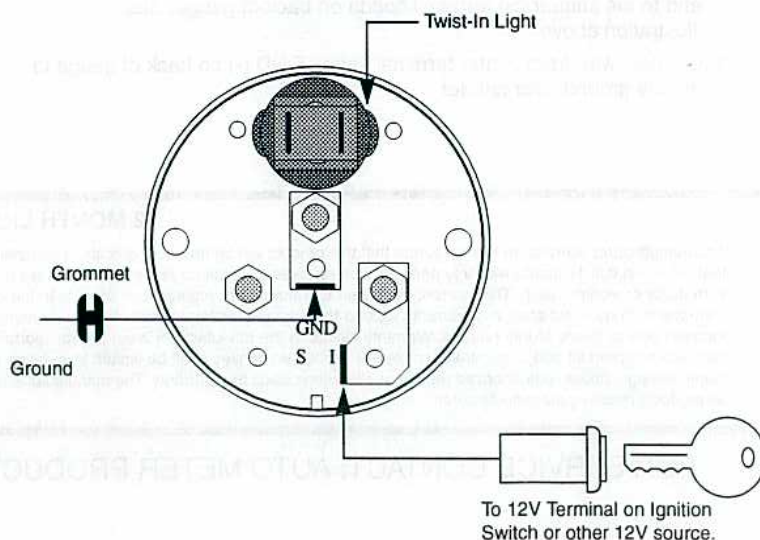
Be careful not to touch ignition wire to the negative (-) terminal on back of gauge or the sender will be damaged.



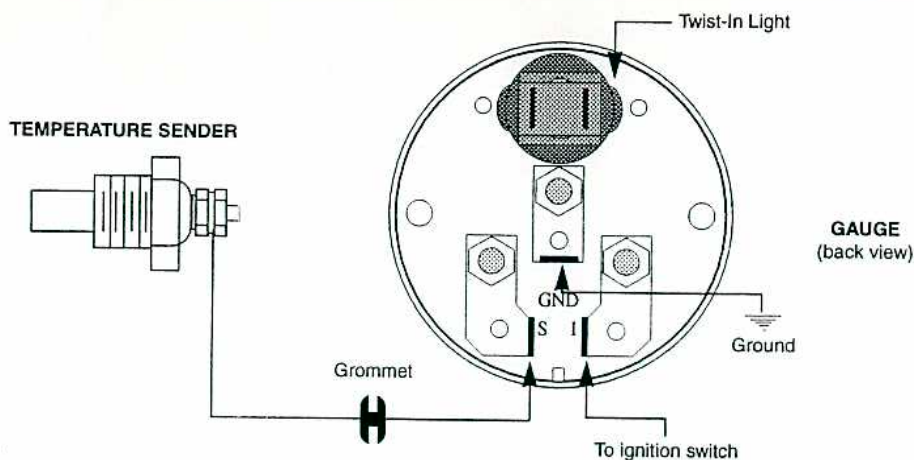
5. Install light in back of gauge and connect one terminal spade to dash lighting circuit or to other 12V power source and connect other terminal spade to (-) negative ground.
6. Reconnect negative (-) battery cable.

Voltmeter

1. Disconnect negative (-) battery cable.
2. Using 18 gauge wire, route one length through firewall using grommet. Attach one end to the negative GND (-) spade terminal on back of gauge, and the opposite end to a good engine ground. See illustration at right.
3. Attach one length of wire to the positive I (+) spade terminal on back of gauge and opposite end to 12V terminal on ignition switch or other 12 power source.
4. Install light in back of gauge and connect one terminal spade to dash lighting circuit or to other 12V power source and connect other terminal spade to (-) negative ground.
5. Reconnect negative (-) battery cable.



Water Temperature



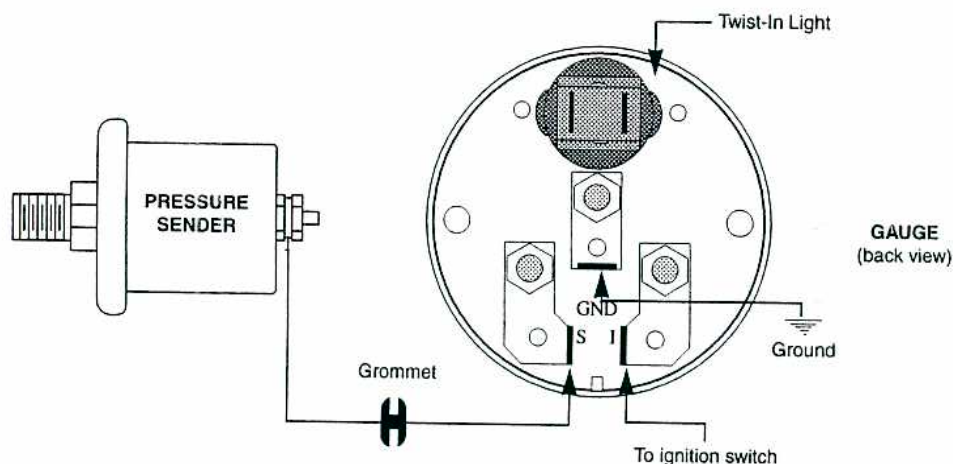
1. Disconnect negative (-) battery cable.
2. Install water temperature sender. Remove stock sender for water temperature indicator light and install new sender.
3. Route 18-gage twin conductor wire through firewall using grommet. Connect one end to terminal post on sender and opposite end to the sender (S) terminal spade on back of gauge. See illustration above.
4. Connect wire from center terminal spade GND (-) on back of gauge to a good engine ground.
5. Connect a wire from the ignition switch to the ignition (I) terminal spade on back of gauge. See illustration above.

CAUTION: Be careful not to touch ignition wire to the sender (S) terminal on back of gauge or the sender will be damaged.

6. Install light in back of gauge and connect one terminal spade to dash lighting circuit or to other 12V power source and connect other terminal spade to (-) negative ground.
7. Reconnect negative (-) battery cable.

Oil Pressure

No. 2241 for Domestic Cars with 1/8" NPT Outlet. Ford uses 1/4" NPT Adaptor included.



1. Disconnect negative (-) battery cable.
2. Remove stock sender for dash warning light and install gauge adaptor. Sender fits 1/8" NPT and comes with 1/4" NPT adaptor. Sender should automatically be grounded when installed. If not, proper ground connections should be made.
3. Route 18-gage twin conductor wire through firewall using grommet. Connect one end to terminal post on pressure sender, and opposite end to the sender (S) terminal spade on back of gauge. See illustration above.
4. Connect wire from center terminal spade GND (-) on back of gauge to engine ground near sender.

CAUTION: Be careful not to touch ignition wire to the sender (S) terminal on back of gauge or the sender will be damaged.

5. Connect a wire from the ignition switch to the ignition (I) terminal spade on back of gauge.
6. Install light in back of gauge and connect one terminal spade to dash lighting circuit or to other 12V power source and connect other terminal spade to (-) negative ground.
7. Reconnect negative (-) battery cable.

12 MONTH LIMITED WARRANTY

The manufacturer warrants to the consumer that this product will be free from defects in materials and workmanship for a period of twelve (12) months from the date of the original purchase. Products that fail within this 12 month warranty period will be repaired or replaced at the manufacturer's option to the consumer, when determined by the manufacturer that the product failed because of defects in material or workmanship. This warranty is limited to the repair or replacement of parts in the instrument and the necessary labor done by the manufacturer to affect the repair or replacement of the instrument. In no event shall this warranty exceed the original purchase price of the instrument, nor shall the manufacturer be responsible for special, incidental or consequential damages or costs incurred due to failure of this product. Warranty claims to the manufacturer must be transportation prepaid and accompanied with dated proof of purchase. This warranty applies only to the original purchaser of product and is non-transferable. All implied warranties shall be limited in duration to the said 12 month warranty period. Breaking the meter seal, improper use or installation, accident, water damage, abuse, unauthorized repairs or alterations voids this warranty. The manufacturer disclaims any liability for consequential damages due to breach of any written or implied warranty on all products made by the manufacturer.

FOR SERVICE CONTACT: AUTO METER PRODUCTS Inc. 413 W. Elm St., Sycamore, IL 60178 (815) 895-8141

MASTERPIECE GAUGE COLLECTION

FUEL LEVEL SENDER

INSTALLATION INSTRUCTIONS

CAUTION:

If working on a tank that contains fuel or fuel vapors, use extreme caution. Carefully follow these thirteen steps to minimize danger from explosive fuel vapor.

Installation Procedure for Empty Tank Clean and Free of Fuel

1. Remove cigarettes, open flames, hot material, and anything that might ignite fuel or fuel vapor from area. Be sure there is adequate ventilation in work area.
2. Remove ignition key and disconnect ground (-) cable from battery.
3. Drain fuel from tank and remove from area. Reinstall drain plug. Disconnect the fuel line from the fuel tank. Remove the mounting straps or bolts which fasten the fuel tank to the vehicle then remove tank.
4. Remove old sender and remove all remains of the gasket from the old sender from the fuel tank. A clean surface is required for proper sealing of the new fuel level sender and the neoprene/cork gasket. If excessive debris is found in the fuel tank, flush with water and thoroughly dry the tank with forced air.
5. Measure tank depth where the new fuel level sender will be installed. Refer then to ADJUSTMENT TABLE AND FIGURE 3 & 4 for correct lengths of float arm (length "A") and stem (length "B"). Remove the float arm from the assembly and cut to length "A" and reattach float arm to the float arm connector with set screw and locknut. Adjust stem to length "B," using the adjusting screws.
6. Place the fuel level sender in the fuel tank and align the five holes in the sender flange with the holes in the fuel tank. The five mounting holes are not equally spaced and will only line up in one angular position.
7. Check for adequate clearance between float and the fuel tank wall. (By holding fuel level sender up along-side of the fuel tank you can better check for clearance of vertical tank wall). If the tank wall interferes with the travel of the float arm, remove the sender from the tank and loosen the stem mounting nut and rotate the stem to a position where the float will clear the tank wall.
8. Place the fuel level sender back in the fuel tank and check for clearance between the float and the bottom of the tank. The float can not touch the bottom of the tank. If the float does, double check the tank depth, float arm length and stem length. Make the appropriate adjustments to the sender.
9. Tighten all of the fuel level sender's fasteners including the stem mounting nut, stem adjustment screws, and the float arm set screw and locknut.
10. Install the fuel level sender and gasket in the tank using the five flange screws.
11. Reconnect the wire from the fuel level gauge to the sender terminal stud with the nuts provided. If the fuel tank is not metal or if it is fastened to the vehicle with only straps, a separate wire from one of the five flange screws to a good chassis ground is necessary.
12. Tighten all of the sender's fasteners and reinstall the fuel tank in the vehicle. Reattach the fuel line to the fuel tank and tighten the drain plug.
13. Reconnect the ground (-) cable to the battery.

FIGURE 1

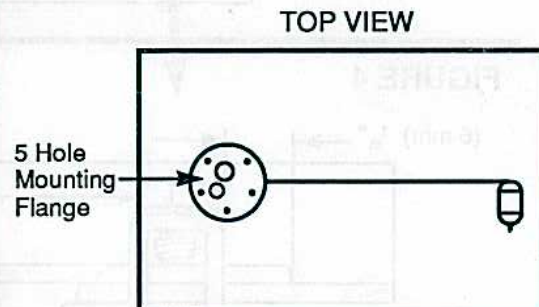
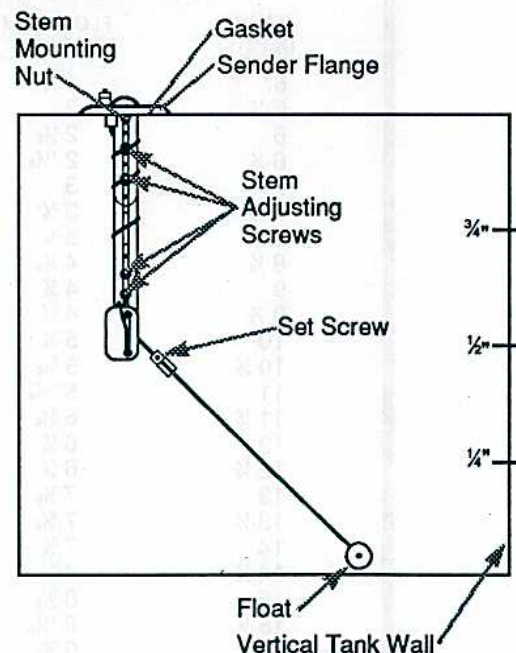


FIGURE 2



IMPORTANT:

Make sure that the Float, at no time, touches the bottom of the gas tank.

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FIGURE 3

SIDE VIEW

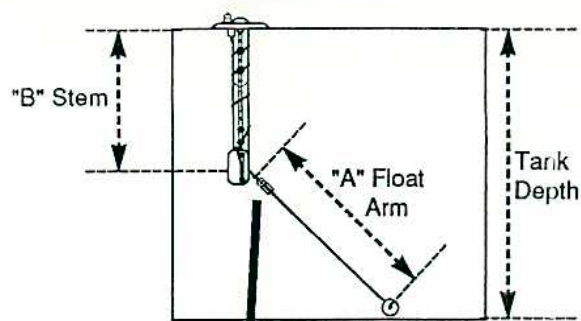
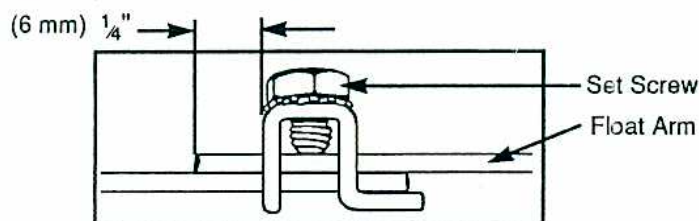
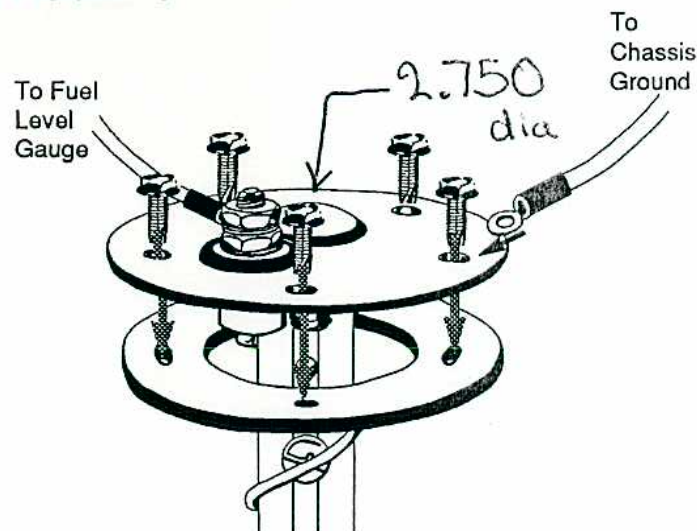


FIGURE 4



SIDE VIEW of Set Screw

FIGURE 5

**IMPORTANT:**

This fuel level sender is equipped with a five hole mounting flange. If your vehicle uses a six hole flange, an adaptor plate will be required.

Adjustment Table**Adjustment Table, INCH**

TANK DEPTH	FLOAT ARM "A" Length	STEM "B" Length
5"	1 5/8"	2 5/8"
5 1/2	2	2 13/16
6	2 5/16	3 1/16
6 1/2	2 11/16	3 3/16
7	3	3 5/16
7 1/2	3 3/8	3 13/16
8	3 3/4	4 1/8
8 1/2	4 1/8	4 5/16
9	4 3/8	4 9/16
9 1/2	4 7/8	4 13/16
10	5 1/8	5 1/8
10 1/2	5 1/4	5 5/16
11	5 13/16	5 9/16
11 1/2	6 3/16	5 13/16
12	6 1/2	6 1/8
12 1/2	6 7/8	6 5/16
13	7 3/16	6 9/16
13 1/2	7 7/16	6 13/16
14	7 3/4	7 1/8
14 1/2	8 1/4	7 5/16
15	8 5/8	7 9/16
15 1/2	8 15/16	7 13/16
16	9 1/8	8 1/8
16 1/2	9 5/16	8 5/16
17	10	8 9/16
17 1/2	10 5/16	8 13/16
18	10 11/16	9 1/8
18 1/2	11	9 5/16
19	11 3/8	9 9/16
19 1/2	11 7/16	9 13/16
20	12 1/8	10 1/8
20 1/2	12 5/16	10 5/16
21	12 9/16	10 9/16
21 1/2	13 1/4	10 13/16
22	13 7/16	11 1/8
22 1/2	13 11/16	11 5/16
23	14 1/8	11 9/16
23 1/2	14 5/16	11 13/16
24	14 3/4	12 1/8

Adjustment Table, MILLIMETER

TANK DEPTH	FLOAT ARM "A" Length	STEM "B" Length
127 mm	41 mm	65 mm
140	51	71
152	59	78
165	68	84
178	76	90
191	86	97
203	95	103
216	103	110
229	113	116
241	121	122
254	130	129
267	138	135
279	148	141
292	157	148
305	165	154
318	175	160
330	183	167
343	192	173
356	200	179
368	210	188
381	217	192
394	227	198
406	237	205
419	244	211
432	254	217
445	262	224
457	271	230
470	279	237
483	289	243
495	298	249
508	306	256
521	316	262
533	324	268
546	333	275
559	341	281
572	351	287
584	359	294
597	368	300
610	378	307

MASTERPIECE GAUGE COLLECTION

"3 1/8" IN. DIA. ELECTRONIC TACHOMETER

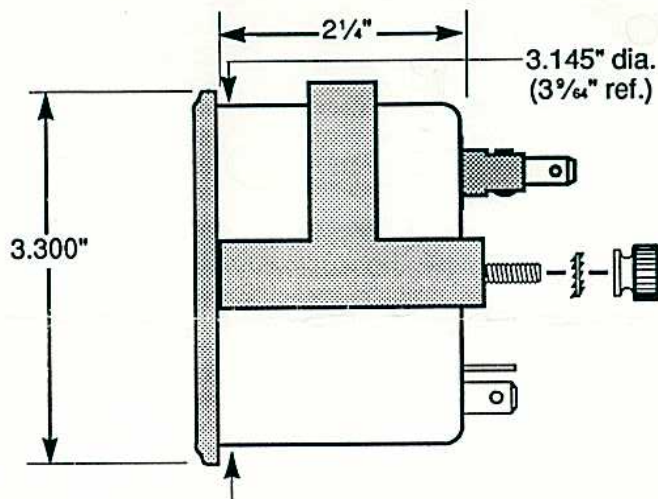
INSTALLATION INSTRUCTIONS

For use on standard and most electronic ignitions. (See note below).

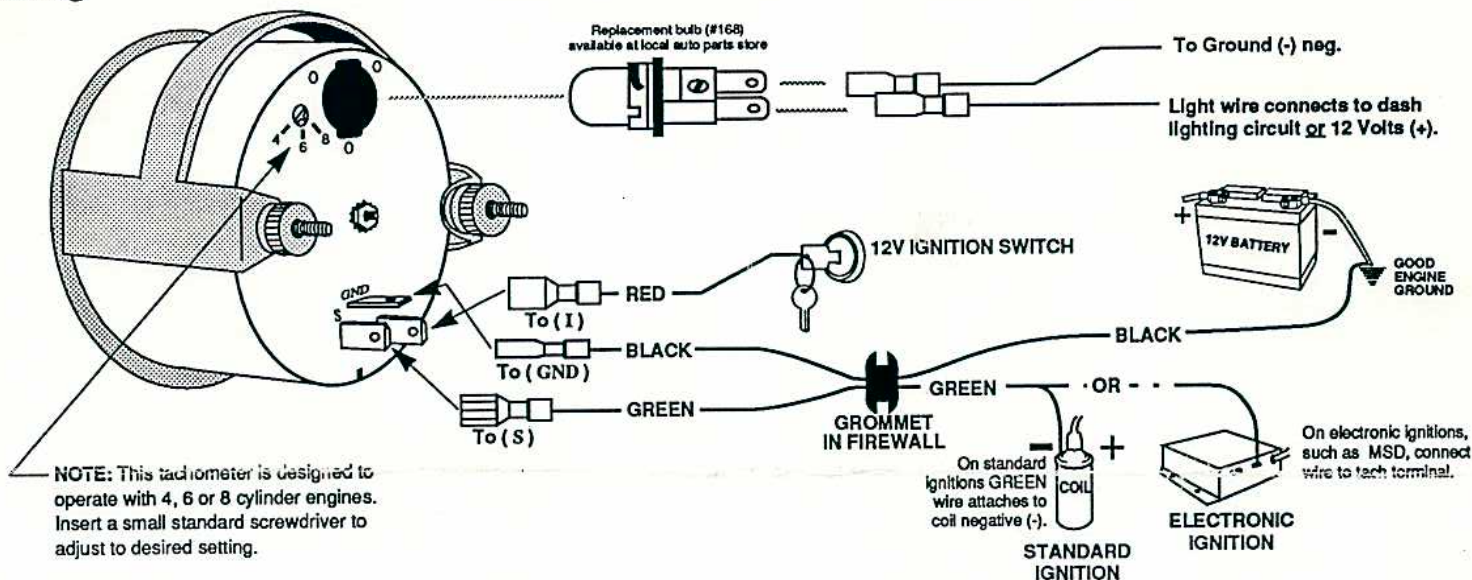
Mounting

1. Cut a 3.156" (3 5/32") dia. hole in the dashboard for the tachometer. (Take care that hole is not cut too large.)
2. Cut a 3/8" dia. hole in the firewall where the tachometer wires will be routed. Place rubber grommet in hole and route the connector wires through to the engine compartment.
3. Connect the tachometer wires as shown below.
4. Secure the tachometer in the dashboard using the bracket, thumbnuts and lockwashers provided.

NOTE: This tachometer has a new, improved meter. With the ignition switch off, the tach pointer may not always rest at zero. This is normal. When engine is started, pointer will position on the correct rpm.



Wiring



WARNING

Warranty will be void if connected to coil on MSD ignitions.

ATTACH ONLY TO TACH TERMINAL.

NOTE: This tachometer operates on standard, factory electronic and high performance electronic racing ignitions, such as MSD.

12 MONTH LIMITED WARRANTY

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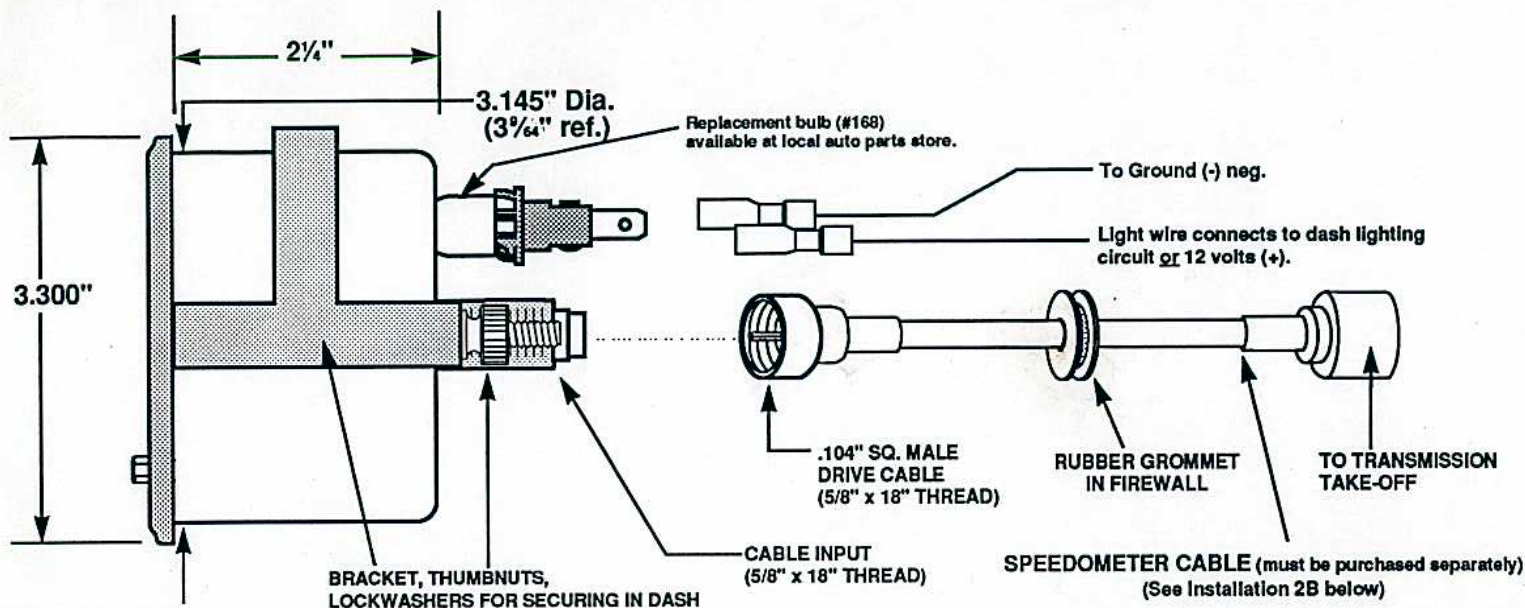
MASTERPIECE GAUGE COLLECTION

"3 1/8" IN. DIA. SPEEDOMETER

INSTALLATION INSTRUCTIONS

Instr. No. 2650-429A

Hookup



Installation

1. Cut a 3 5/32" diameter hole in the dashboard for the location of the speedometer. (Take care that hole is not cut too large.)
2. To connect the speedometer cable:
 - A. If existing speedo cable in vehicle is being used, connect it to the cable input on back of speedo. Make sure cable fits properly into .104" sq. female cable input before tightening.
 - B. If a new speedo cable is required, purchase a "custom made" cable from an auto parts store or speedometer specialty shop. If unable to obtain a speedometer drive cable locally, contact Ford Motorsport at address below. Indicate the size and type of cable end to fit in the transmission speedometer drive, type of attachment to the transmission and length of cable needed. The cable input on back of speedometer accepts only .104" sq. male drive. Make sure connections fit properly before tightening.
3. Cut a 1 1/2" diameter hole in engine firewall where cable will be routed. Route cable from speedo through dash, through firewall and connect to transmission take-off. Use the rubber grommet provided (slit) to support the cable in the firewall. Make sure all connections fit properly

and that the rotating cable is not too long or short for proper engagement before tightening.

4. Secure the speedometer in the dashboard by using the bracket, thumb nuts and star lockwashers provided.
5. Install light in back of gauge and connect one terminal spade to dash lighting circuit or to other 12V source. Connect other terminal spade to (-) negative ground.

Specifications: This speedometer is set up for a 1:1 drive ratio (60 MPH at 1,000 RPM input to speedometer head) and a 5/8" x 18 threaded cable input that requires a .104" sq. male drive. If vehicle tire size and/or rear-end differential are not stock (original), a different driven gear in the transmission may be required for speedo accuracy. If a change in the driven gear is made, you very likely will have to change the drive gear in the transmission to maintain the proper gear tooth engagement. Another approach is to use a "correcting ratio" drive joint to adjust the speedometer input to 60 MPH at 1,000 RPM. If one is needed, the appropriate ratio can be easily determined by comparing your speedometer reading against another car having an accurate speedometer and dividing the speeds. (Accurate speed ÷ Your speed = Ratio needed) Auto parts stores or speedometer specialty shops carry "correcting ratio" drive joints or contact Ford Motorsport at the address or phone below.

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