

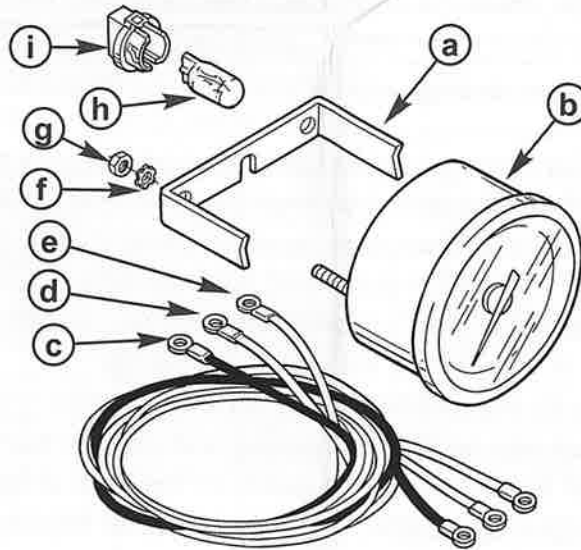
TACHOMETER INSTALLATION INSTRUCTIONS

NOTICE

After completing installation, these instructions should be placed with the product for the owner's future use.

NOTICE

This document is written to aid our dealers, boatbuilders, and company service personnel in the proper installation or service of our products. Persons who are not familiar with these or similar products produced by Mercury Marine, and who have not been trained in the recommended servicing or installation procedures should have the work performed by an authorized Mercury Marine dealer technician. Improper installation or servicing of the Mercury product could result in damage to the product or personal injury to the installer or persons operating the product.



14381

Ref.	Qty.	Description	Part Number
a	1	Retaining bracket	896437
b	1	Tachometer	NSS
c	1	Cable Assembly - Black	84-896437A01
d	1	Cable Assembly - Blue	84-896437A02
e	1	Cable Assembly - Purple	84-896437A03
f	6	Lockwasher - #8	13-23836
g	6	Nut - #8	11-26419
h	1	Bulb	88-898139001
i	1	Socket	88-898139

Preparation for Installation

⚠ CAUTION

Always disconnect the battery cables from the battery before working around electrical system components to prevent injury and damage to the electrical system if a wire should accidentally cause a short circuit.

1. Disconnect the battery cables.
2. Select a location for the gauge that affords good visibility and accessibility from behind dashboard. Ensure that the harness wires will reach the gauge.

⚠ CAUTION

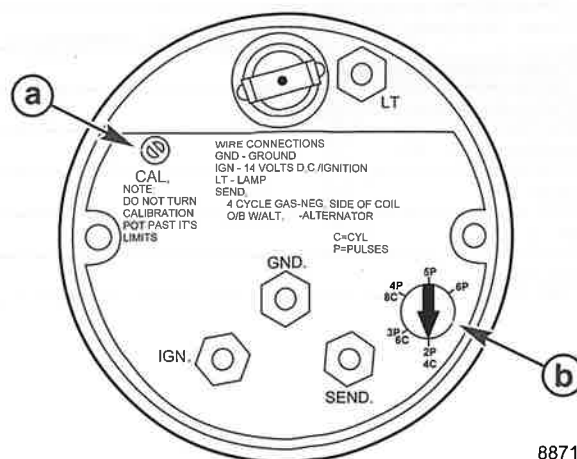
Avoid injury or product damage. Obstructions, such as braces and wiring, may be unseen when looking at the front of the dashboard. Before drilling or cutting any holes in the dashboard, check the area behind the dashboard for obstructions. Do not drill or cut when obstructions are present.

3. Before drilling or cutting, ensure there are no obstructions in the area behind the dashboard.

NOTE: The bezel of this gauge has an outside diameter of 97 mm (3-7/8 in.). Choose a gauge location that will ensure clearance between other gauges and instrumentation.

4. **If the dashboard is fiberglass**, apply masking tape to the area that is to be drilled or cut to help prevent the dashboard from cracking.
5. **If the dashboard is vinyl covered**, remove the vinyl with a razor blade from the area to be drilled or cut, to keep the vinyl from tearing.
6. Cut or drill a 86 mm (3-3/8 in.) hole in the dashboard.
7. Refer to **Tachometer Switch Setting** and choose the appropriate setting (switch position). Set the position of the switch on the back of the tachometer.
8. In a dual engine application, turn the calibration adjustment screw to fine tune the reading between engines.

IMPORTANT: Calibration adjustment screw needs only minimal turning to affect tachometer reading. Do not force the adjustment screw or you will damage the tachometer.



8871

a - Calibration adjustment screw

b - Switch

Tachometer Switch Setting

Typical Outboard and MerCruiser Settings

Model	Positive Pulses per Crank Revolution	Poles	Switch Setting
Mercury/Mariner (2-Stroke) 6 through 25 HP	4	8	4P
Mercury/Mariner (4-Stroke) 8 and 9.9 HP	3	6	3P
Mercury/Mariner (2-Stroke) 30/40 HP U.S.A. - 0G053314 and Above	6	12	6P
Mercury/Mariner 35 and 40 (2 Cyl.) U.S.A. - 5823918 and Above Canada - 716337 and Above Australia - 8070639 and Above Belgium - 929855 and Above	4	8	4P
Mercury/Mariner (4-Stroke) 25 through 115 HP	6	12	6P
Mercury/Mariner (2-Stroke) 45 through V-6			
Force 35 HP and higher with Mercury Ignition			
Mercury MerCruiser 4 Cyl. gasoline engine	2	N/A	4C
Mercury MerCruiser 6 Cyl. gasoline engine	3		6C
Mercury MerCruiser 8 Cyl. gasoline engine	4		8C

Typical Diesel Settings

If using the recommended Mercury MerCruiser tachometer for diesel engines, the appropriate setting of the switch located on the back of the tachometer is indicated.


Model	Signal per Revolution	Tachometer Switch Setting
1.7L MS/MI	2 ¹ .	2P
4.2L MS/MI	103 ² .	N/A
2.8L ES/EI	2 ¹ .	2P
4.2L ES/EI	3 ¹ .	3P

Wire Connections

▲ CAUTION

Avoid electrical short circuits. Position wires on the back of all gauges so that they will not rub or contact the retaining (mounting) bracket when it is installed.

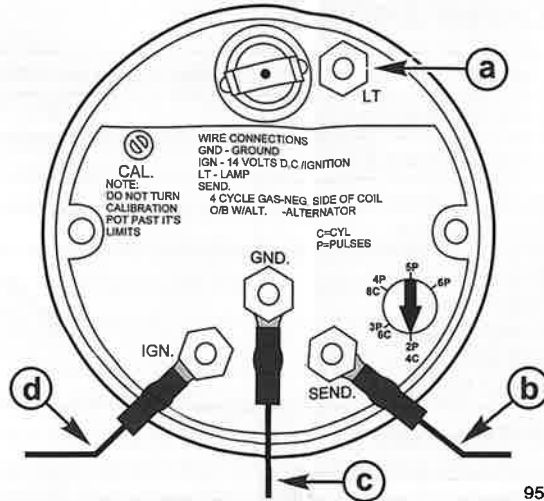
Before placing gauge in dashboard, connect wires to appropriate terminals using lockwashers and hex nuts. Ensure all connections are secure. Apply sealant to the terminals.

Tube Ref No.	Description	Where Used	Part No.
 25	Liquid Neoprene	Terminals	92-25711-3

1. If lighting is desired, use lamp terminal wired in one of the two following ways:
 - a. If instrument lighting is desired when the key switch is on, connect a jumper wire from the ignition terminal (purple wire) to the lamp terminal.

1. Signal is based on pulses per revolution.
2. Signal is based on flywheel teeth count.

- b. If using a separate light switch for instrument lighting, connect the lamp terminal to a 12 volt positive (+) switched source.



9594

- a - Lamp terminal
- b - Gray wire from instrument harness
- c - Black wire from instrument harness
- d - Purple wire from instrument harness

Installing the Gauge

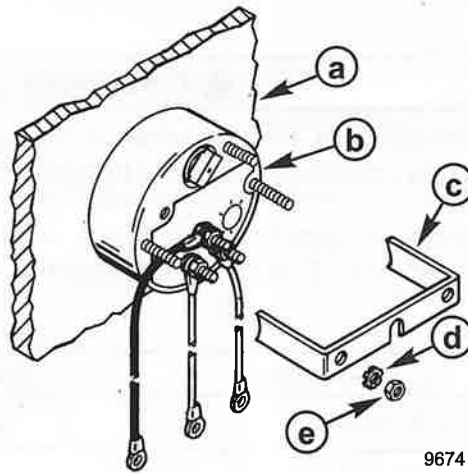
1. Place the gauge into the dashboard.

NOTE: On installations where the dashboard is too thick, legs of retaining bracket may have to be shortened to install.

▲ CAUTION

When installing retaining bracket to gauge, be sure that wiring is positioned so that it does not rub on bracket.

2. Install the retaining bracket.
3. Install the lockwashers and hex nuts, and tighten securely.



9674

- a - Dashboard
- b - Gauge
- c - Retaining bracket
- d - Lockwasher
- e - Hex nut

Gauge Maintenance

Maintenance inspection is the owner's responsibility and must be performed at intervals as specified.

Normal Service - Every 50 hours of operation or 60 days (whichever comes first).

Severe Service - Every 25 hours of operation or 30 days (whichever comes first).

NOTE: *Saltwater area operation is considered severe service.*

1. Check the gauge for adequate tightness in the dashboard and retighten the retaining nut if necessary.
2. Check the electrical connections. Tighten and apply sealant to the terminals, if needed.

Tube Ref No.	Description	Where Used	Part No.
 25	Liquid Neoprene	Gauge terminal connections	92-25711-3

3. Clean the gauge by washing with fresh water to remove sand and salt deposits. Wipe off with a soft cloth moistened with water. The gauge may be scored or damaged if wiped with abrasive material (sand, saline or detergent compounds, and so on) or washed with solvents such as trichlorethylene, turpentine or similar.