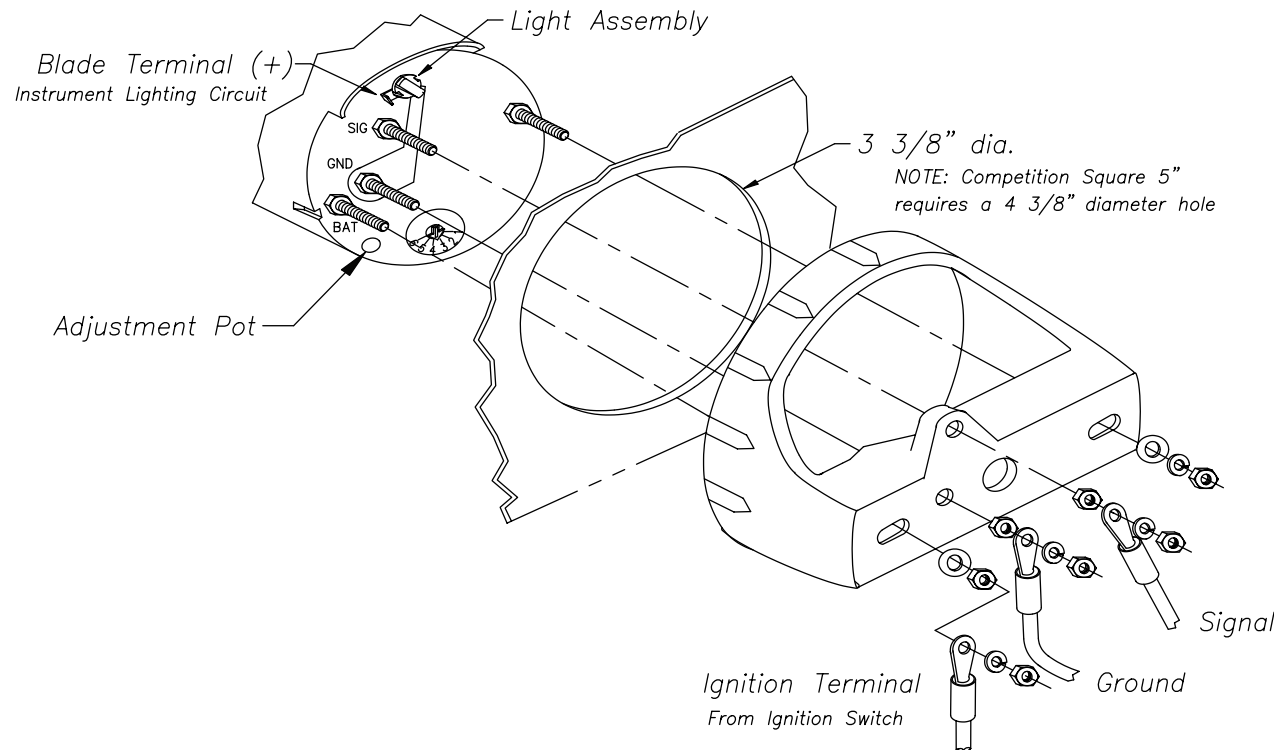


# Installation Instructions Outboard Motor Tachometer & Tach/Hourmeter

# Outboard Tachometer Applications



**CAUTION:** Disconnect the battery during installation. Tighten nuts on the backclamp only slightly more than you can tighten with your fingers. Six inch-pounds of torque is sufficient. Overtightening may result in damage to the instrument and may void your warranty.

1. Location: The tachometer should be located at least 18" from a magnetic compass. Some interference (erratic operation) may be noticed on the tachometer during radio transmissions. This will neither damage a Faria® tachometer nor affect accuracy when not transmitting.

2. Be certain to use stranded, insulated wire not lighter than 18AWG that is approved for marine use. It is recommended that insulated wire terminals, preferably ring type, be used on all connections to the tach, except the light, which requires a 1/4" insulated female blade terminal.

3. Using a small screwdriver, SLIGHTLY depress and turn the selector switch on the back of the tachometer to the correct position to match the number of poles in the alternator (see label on the side of the tachometer). Depressing the switch too hard may cause damage to the tachometer! Be sure the selector switch has locked into the detent at the correct position by slightly rotating the switch back and forth with the screwdriver. If the number of poles is not known, consult the "Outboard Tachometer Application" chart or call Faria® Marine Instruments at (860) 848-9271 with make, model, HP, and year of the motor.

4. Cut a 3-3/8" dia hole in the dash and mount the

tachometer with the backclamp supplied.

5. Connect a wire to the tach stud marked "BAT" (battery) and secure with a nut and lockwasher. Connect the opposite end to a 12VDC circuit that is activated by the ignition switch.

6. Connect a wire to the tach stud marked "SIG" (signal) and secure with a nut and lockwasher. Connect the opposite end to a terminal or wire originating from the unrectified side of the alternator. On most late model outboards, a tach hook-up wire can be found at the control box. Tach plug-in harnesses are sometimes available from the engine manufacturer to simplify the hook-up.

7. Connect a wire to the tach stud marked "GND" (ground) and secure with a nut and lockwasher. Connect opposite end to the boat's electrical ground, generally available in several locations at or near the instrument panel.

8. Connect the blade terminal adjacent to the twist-out light assembly to the positive "+" side of the boat's instrument lighting circuit. No separate ground is required for lighting. Reconnect the battery.

**NOTE:**

A.) To change light bulb, twist black socket assembly one-eighth turn counterclockwise until it pops out. Bulb pulls straight out of assembly. It is a GE No. 194 instrument lamp.

B.) If your Tachometer is equipped with an hourmeter, the hourmeter will be energized when the the engine is running.

Make / Year	Model	# of Poles
<b>Chrysler</b> 1968 - 1983	35 HP, 70 HP & up	12
	55 & 60 HP	20
<b>Force</b> 1984 - 1999	50 HP through early 1987 (A,B models)	8
	35 HP (1986 & later)	12
	40 HP (1991 & later)	
	50 HP (1992 B models & later)	
	70 HP (1991 & later)	
Some older Force engines are 20 pole (see note f.)	90 - 120 HP L-Drive (1991 B & later)	12
	145 HP L-Drive (1991 & later)	
<b>Honda</b> Through 2005 □ Older tiller models □ require Honda jumper □ wire 32197-ZH8-003, □ BF 40/50 HP require 06383-ZV5-316 Tach Kit	BF-75/100A, BF 8A, BF 9.9/15A HP	4
	BF-25/30, BF 75/90 HP	
	BF-115/130 HP, BF 200/225 HP	6
	BF-135/150	
BF-35/45, BF 40/50 HP	BF-8D/9.9D BF 15D/ 20D (Includes Power Thrust Models)	12
	<b>Mercury/Mariner</b> 1977 - 2005 (See note "e") *Use Tach adapter #17461A9 □ Service #17461T9 □ **Use Tach adapter MM #17461A8 or A10 □ Service #56-883040A1	18,25,48,60HP Mariner through 1983
8, 9.9, 15 and 25 HP (4 stroke)(after 1998-2004)		
Less than 40 HP - All Before 1999		6
40 HP(serial # 582399 and before)		
8, 9.9(Before 1999 and after 2005)& 50HP(4 stroke)	10	
6 to 25 HP 1999 & up, *2002 & up	12	
25 HP & 30 HP (4 stroke)		
40 HP (after serial # 582399)		
45 HP (1987), 50-60 HP (4 stroke EFI)		
<b>Evinrude/Johnson</b> 1977 - 2005 for 88 HP {90} & 112 HP {115}; a voltage reg. kit is recommended. □ A System Check Tach or 2" gauge is required	50 HP & above, ** 75, 90,115 HP (4 stroke EFI)	12
	135, 150, 200, 225 HP, DI	
	3.0L EFI 225 & 250 HP	
	Pro Max 3.0L 300 HP EFI	
<b>Suzuki</b> through 2005 □ A System Monitor Tach or 2" gauge is required	9.9 HP -15 HP 4 stroke after 2001	6
	All 2 cylinders less than 70 HP	10
	9.9 HP & 15 HP (2 cylinder) (4 stroke)	12
	25-35 HP 3 CYL	
40-50 HP, 2 cylinder (1993 & later)	6	
60 HP, 3 cylinder (1985 & later)		
70 HP & greater, including sea drives		
All FICHT models		
<b>Tohatsu / Nissan</b> through 2005 (See note "e").	Less than 55 HP - All	4
	60 HP, 65 HP thru 1985	
	50 - 60 HP Cabrea	6
	DF 4 through 30 (4 stroke)	
25 HP & 30 HP (1993 & later)	12	
55 HP & 65 HP (1985 & later)		
75 HP & up (1985 & later)	6	
75 HP and up (Cabrea)		
115 HP and up (1988 & later)		
DF 40 through DF 250, DFV6 (4 stroke)		
<b>Yamaha</b> 1984 - 2005	(2 strokes) 8 HP, 9.8, 9.9, 15, 18, 25, 30, 40C (all 2 cylinder)	4
	(2 strokes) M40D,40D2, 50D, 50D2, 70D and C, 90A (all 3 cylinder)	6
	(2 strokes) 115 HP, 120 HP, 140 HP (all 4 cyl.)	12
	(4 strokes) 8, 9.8, 9.9, 15, 18, 25 & 30 HP	4
6 HP - 25 HP (2 cyl '84-'87), F/T 9.9 ('85-'91)		
C25 - C55 (2 cyl) Except C30 (2cyl '93-'97)		
F/T 9.9 (MID '92 on), C30-C70 (3 cyl)		
C30 (2 cyl '93-'97), 25 HP (3 cyl),	6	
25 HP (2 cyl '88-'01)		
30HP-70HP, 50EJ, 50-70, F15	12	
F/T 25-F225, HPDI 150-300, 80-SX250		
F/T 9.9 (early '92), C75-C150, P75, F30-250		
V/VX 150-250, VZ 225-300, 90-300		

Notes:

a. 6000 RPM tachs are for Inboard & I/O gas engine applications only

□  
b. 7000 RPM & 8000 RPM tachs are for all outboard motor applications only. 20 Pole Tachs are no longer available.

□  
c. Electrical pulses per revolution are equal to 1/2 the number of alternator poles.

□  
d. Older model outboards (prior to 1977) may have the tach signal wire originating at the ignition system though they are alternator equipped. All alternator tachometers may be used on these systems by disconnecting the tach signal wire at the engine and connecting that wire to the unrectified alternator signal at the rectifier. Be certain the number of alternator poles match the tachometer pole setting of the tach.

□  
e. TOHATSU recommends, when using aftermarket tachs on TLDI engines, using inductor light kit part number 3Y9762510 and Harness 3T5710420. Strong alternator interference on some TOHATSU / NISSAN outboards and some pre 2001 Mercury 90HP outboards may require wiring a .1mf, 100 volt non-polarized capacitor between the signal and ground stud terminals. □

□  
f. Faria no longer makes a 20 pole tach.