



Tachometer Applications

ISO086

Rev. V ecn 10430 8/2016

OutBoard Engines

Make / Year	Model	# of Poles
Chrysler 1968 - 1983	35 HP, 70 HP & up	12
	55, 60, 85 & 125 HP	20
Force 1984 - 1999 Some older Force engines are 20 pole (see note f.)	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)	
90 - 120 HP L-Drive (1991 B & later)		
Honda to Present Older tiller models require Honda jumper wire 32197-ZH8-003, BF 40/50 HP require 06383-ZV5-315 Tach Kit (thru 2005)	BF 75/100A, BF 8A, BF 9.9/15A HP	4
	BF 25/30, BF60, BF 75/90 HP	
	BF 40/50 (2006 and later)	
	BF 115/130 HP	
Mercury/Mariner 1977 to Present (See note "e") *Use Tach adapter #17461A9 Service #17461T9 **Use Tach adapter MM #17461A8 or A10 Service #56-883040A1 SmartCraft requires AGI converter for Analog Gauges.	BF 135/150 HP, BF 200/225 HP	6
	BF 35/45, BF 40/50 HP (thru 2005)	
	BF 8D/9.9D, BF 15D/ 20D (Includes Power Thrust Models)	
Mercury/Mariner 1977 to Present (See note "e") *Use Tach adapter #17461A9 Service #17461T9 **Use Tach adapter MM #17461A8 or A10 Service #56-883040A1 SmartCraft requires AGI converter for Analog Gauges.	18, 25, 48, 60 HP Mariner through 1983	4
	8, 9.9, 15 and 25 HP (4 stroke)(after1998-2004)	
	Less than 40 HP - All Before 1999	
	40 HP (serial # 582399 and before)	
	8, 9.9 (Before 1999 and after 2005) & 50H (4 stroke)	
	Verado 200 - 400 HP	
	6 to 25 HP 1999 & up, *2002 & up	
	25 HP & 30 HP (4 stroke)	
	40 HP (after serial # 582399)	
	45 HP (1987), 50-60 HP (4 stroke EFI)	
50 HP & above, ** 75, 90,115 HP (4 stroke EFI)		
Evinrude/Johnson 1977 to Present for 88 HP {90} & 112 HP {115} a voltage reg. kit is recommended. A System Check Tach or 2" gauge is required	135, 150, 200, 225 HP, DI	12
	3.0L EFI 225 & 250 HP	
	Pro Max 3.0L 300 HP EFI	
	9.9 HP -15 HP 4 stroke after 2001	
	All 2 cylinders less than 70 HP (Pre 1993)	
	9.9 HP & 15 HP (2 cylinder) (4 stroke)	
	25-35 HP 3 CYL	
	40-50 HP, 2 cylinder (1993 & later)	
	60 HP, 3 cylinder (1985 & later)	
	70 HP & greater, including sea drives	
All FICHT models		
All E-Tech 40 HP - 250 HP		

Make / Year	Model	# of Poles
Suzuki to Present A System Monitor Tach or 2" gauge is required	Less than 55 HP - All, DT55, 2-Stroke Models	4
	60 HP, 65 HP thru 1985, DT 2-Stroke Models	
	50 - 60 HP Cabrea, DT 2-Stroke Models	
	DF 2.5 through DF 15, DF 25 V(TWIN) 2006 & later	
Tohatsu / Nissan to Present (See note "e").	25 HP & 30 HP (1993 & later) DT 2-Stroke Models	6
	55 HP & 65 HP (1985 & later) DT 2-Stroke Models	
	75 HP & up (1985 & later) DF 25 through	
	DF 30 (3 Cyl Models), DT 2-Stroke Models	
Tohatsu / Nissan to Present (See note "e").	75 HP and up (Cabrea) DT 2-Stroke Models	12
	115 HP and up (1988 & later), DT 2-Stroke Models	
	DF 40 through DF 250, (4 stroke) ALL	
	(2 strokes) 8 HP, 9.8, 9.9, 15, 18, 25, 30, 40C, M40C or less (all 2 cylinder)	
Tohatsu / Nissan to Present (See note "e").	All TLDI 40 through 115	4
	(2 strokes) M40D, 40D2, 50D, 50D2, 70B and CM90A (all 3 cylinder)	
	(4 strokes) MFS20 or less	
	(2 strokes) 115 HP, 120 HP, 140 HP, M115A-M140A (all 4 cyl.)	
Yamaha 1984 to Present	(4 strokes) 8, 9.8, 9.9, 15, 18, 25 & 30 HP, EFI 25, 30, MFS25/30 (3 cyl)	12
	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)	
Yamaha 1984 to Present	S250B and V8 four stroke will not support a conventional tachometer.	6
	C30 (2 cyl '93-'97), 25 HP (3 cyl), 25HP (2cyl, '88-'05)	
	C/P/E 30-70, F8, F15, F20	
	F/T 25-F250, HPDI 150-300, 80-SX250	
Yamaha 1984 to Present	F/T 9.9 (early '92), C75-C150, P75-P200	12
	V /V X 150-250, F15C/F20	

I/O and Inboard Engines

Most I/O and Inboard Applications use a Tach Setting as Follows

4 Cylinder	Setting 1
6 Cylinder	Setting 2
8 Cylinder	Setting 3

For Mercury engines use the following:

Engine	Tach Signal	Pulses	Setting
3.0 TKS	4 cyl	2P/Rev	1
3.0 MPI EC	8 cyl	4P/Rev	3
4.3 TKS	6 cyl	3P/Rev	2
4.3 MPI	6 cyl	3P/Rev	2
4.3 MPI EC	8 cyl	4P/Rev	3
4.5L MPI	6 cyl	4P/Rev	3
4.5L MPI EC	6 cyl	4P/Rev	3
5.0 MPI	8 cyl	4P/Rev	3
5.0 MPI EC	8 cyl	4P/Rev	3
350 Mag	8 cyl	4P/Rev	3
350 Mag EC	8 cyl	4P/Rev	3
377 Mag & EC	8 cyl	4P/Rev	3
8.2 Mag & EC	8 cyl	4P/Rev	3

6000 RPM w/12 Pole option - Pre 2016

6000 RPM w/12 Pole option - 2016 & newer
7000 RPM Outboard Tach

ENG. CYL. SWITCH SETTING

- 1 - 4 CYL
 - 2 - 6 CYL
 - 3 - 8 CYL
 - 4 - 12 POLE OB ALT
- SLIGHTLY DEPRESS WHILE TURNING

SWITCH SETTING

- 1 - 4 POLE/CYL
 - 2 - 6 POLE/CYL
 - 3 - 8 POLE/CYL
 - 4 - 10 POLE
 - 5 - 12 POLE
- SLIGHTLY DEPRESS WHILE TURNING

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 indicator 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 Beede no longer makes a 20 pole tach.

Made in the USA

Faria Beede Instruments, inc.
www.FariaBeede.com