

SPEC MAINTENANCE SPECIFICATIONS



ltem	Unit	Model								
		50 hp	60 hp	70 hp	75 hp	80 hp	90 hp			
Thermostat:										
Valve opening temper- ature	°C (°F)	48 ~ 52 (118 ~ 126)								
Full-opening tempera- ture	°C (°F)	60 (140)								
Valve lift	mm (in)	3 (0.12)								

C32000-07

ELECTRICAL

ltem	Unit	Model						
		50hp	60hp	70hp	75hp	80hp	90hp	
Ignition system:	ir r							
Ignition timing								
at full reversed	ATDC degree	7 ± 1		8 ± 1				
at full advanced	BTDC	22 ± 1		20 ± 1		22 ± 1		
cam roller pick-up	ATDC degree	7 ± 1		8 ± 1				
Piston position	477							
at full advanced	BTDC mm (in)		± 0.28 ± 0.11)	2.68 ± 0.26 (0.106 ± 0.010)		± 0.27 ± 0.011)	3.41 ± 0.29 (0.134± 0.011)	
Charging coil resistance [20°C (68°F)]	Ω	136 ~ 204 (Brown – Blue)		64 ~ 96 (Br - R) 191 ~ 288 (B - R)				
Charge coil output peak voltage (minimum) color			Br – L		R-	- Br	B-L	
@ cranking (open)	v	120			5	55	90	
@ cranking (connect)	v	150			6	90	100	
@ 1,500 r/min	v	160			1	70	135	
@ 3,500 r/min	V	120			31	50	135	
Pulser coil resistance [20°C (68°F)] Pulser coil output peak	Ω	240 ~ 360 (W/R ~ W/B)		241 ~ 362 (W/R – W/B)				
voltage (minimum)								
color	189977	W/R - W/B			W/R - W/B			
@ cranking (open)	v	4.5			7.0			
@ cranking (connect)	V	2.5			5.0			
@ 1,500 r/min	V	6.5			14			
@ 3,500 r/min	V	10			20			

Yamaha 2003 90hp Outboard Service Manual

Scott C. Dulebohn

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