



OUTBOARD MOTOR NOMENCLATURE

Sometimes the words "right" and "left" are very confusing when referring to the sides of an outboard motor. Therefore, the sides are referred to as STARBOARD or PORT sides. STARBOARD means on the right hand while facing the bow (FRONT) of the boat; PORT means left hand. See Figures 1-1 and 1-2.

Service required for outboard motors is generally one of three kinds . . .

- 1. NORMAL CARE AND MAINTENANCE, which includes putting a new motor into operation, storing motor, lubrication, and care under special operating conditions such as salt water and cold weather.
- 2. OPERATING MALFUNCTIONS due to improper motor mounting, propeller condition or

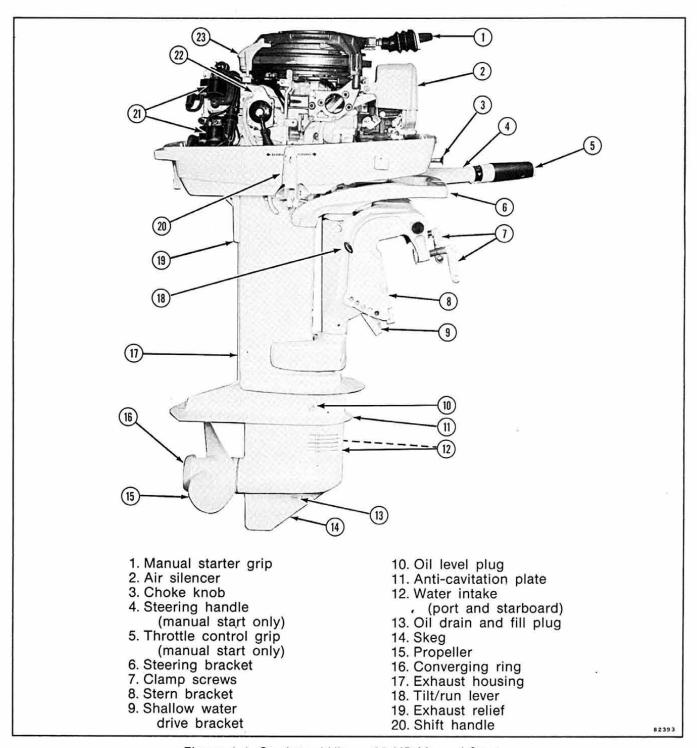


Figure 1-1. Starboard View - 35 HP Manual Start

SPECIFICATIONS

SPECIFICATIONS).			
Models 25802 and 35802,	Standard Length (15"			/4" dia. x 12"
Manual Start	transom) (381 mm)		pitch SST	1- 11 1 /4" d:-
Models 25852 and 35852, Electric Start	Standard Length		x 7" pitch a	de 11-1/4" dia. Ilum.
Models 25803 and 35803,	Long Shaft (20" transom)		3 blade 11"	dia. x 9" pitch alum.
Manual Start	(508 mm)			dia. x 13" pitch alum.
Models 25853 and 35853, Electric Start	Long Shaft			1/4" dia. x 13"
POWER HEAD			pitch SST	1/2" dia. x 11"
Horsepower (B.I.A. certified)			pitch SST	1/2 did. X 11.
25 HP Model	25 HP at 5000 rpm		3 blade 11"	dia. x 9" pitch SST
35 HP Model	35 HP at 5500 rpm	Speed control		handle (Manual start) rol available
Full throttle operating range	25 HP - 4500-5500 rpm 35 HP - 5000-6000 rpm		(Electric	
Tank test				utral and reverse
	25 HP - Wheel part number 388880, 5200 rpm		Model 25802, 101	
35 HP - Wheel part number 386891, 5300 rpm		(without fuel tank)	Model 25803, 104 Model 25852, 103	
Engine type 2 cyl., 2 cycle, alternate firing Bore and stroke 3.000" bore x 2.250" (76.20 x 57.15 mm)		ruel rank)	Model 25853, 106	
Piston displacement 31.8 cubic inches (521 cm ³)			Model 35802, 114	
Piston and rings available standard and 0.030" oversize			Model 35803, 118	
Thickness of ring	Upper - 0.0900 - 0.0895 in.	-	Model 35852, 117 Model 35853, 121	lbs. (53.1 kg)
	(2.286 - 2.273 mm)			11 pounds - net 5 kg)
	Lower - 0.0625 - 0.0615 in. (1.588 - 1.562 mm)	Fuel capacity	6 gallons (2	
Crankshaft size		ELECTRICA	L SYSTEM	Л
Top journal	1.2510 - 1.2515 in.	Charging system	5 amp flywh	eel alternator
Center journal	(31.775 - 31.788 mm) 1.1805 - 1.1810 in.	(Electric start models Starter	s only) Manual – Se	ol footballan
Comer Journal	(29.985 - 29.997 mm)	Sidirer	Electric - 1	2 volt
Bottom journal	0.9842 - 0.9846 in.	Starter amperage draw		
Connection and exact air	(24.999 - 25.009 mm) 1.1828 - 1.1823 in.	cranking		
Connecting rod crank pin	(30.043 - 30.030 mm)	IGNITION S		
CARBURETOR	,	Ignition Spark plug	Magneto bre Champion L	eakerless C.D.
Carburetion	Single barrel, float feed,	Alternate Spark plug		.77J4 or AC
	fixed high speed, adjust-		M40FFX g	apped at 0.040"
	able low-speed (under mo- tor cover), manual choke	6-1-1-1	(1.0 mm)	1/2 (
High speed orifice plug	25 HP - Part Number 324020	Spark plug torque	(24 - 27 N	-1/2 foot-pounds
The street services in the street	Identification Number 49-D	Ignition coil	Part No. 58	
	35 HP - Part Number 319831 Identification Number 59-D			
Float level setting	Flush with rim of casting	IGNITION C		
Inlet needle seat	0.065 - 0.062 (1.65 - 1.57 mm)	SPECIFICATIONS		
	Use #53 drill as gage	Stevens Model ST-75		
Initial low speed needle setting Idle speed	1-1/4 turns open 650 rpm maximum	Reverse Polarity (Switch Setting CD) 1.6		
Maximum neutral rpm	2000 - 3500 rpm	Stevens Tester Model M.A75 or M.A80		
Cooling system	Combination positive dis-	Switch ** A	Index	Adjustment
- "	placement and centrifugal	**Use Model CD-1 A	alastas - Dad tost al	20
	pump Pressure relief and thermo-	Black test clip to		ip to orange/black =
	statically controlled	Merc-O-Tronic with		
Propeller gear ratio	12:21 (25 HP) - 14:27 (35 HP)	Capacitor Discharge Adapter Model 55-980		
Propeller supplied with	25 HP - 3 blade 9-1/4" dia.	Operating	Primary Resistance	Secondary Continuity
motor	x 11" pitch 35 HP - 3 blade 10-1/2" dia.	Amperage 1.7	0.1 Ohm or less	5 (approx.)
	x 11" pitch			(1)
Propeller options	25 HP - 3 blade 9-1/4" dia.	Graham Tester Model 51 Maximum Secondary		
9	x 9" pitch SST 3 blade 9" dia. x 9" pitch			
	3 blade 9" dia. x 10" pitch			
	3 blade 9-1/4" dia. x 7"			
	pitch			
	3 blade 9-1/4" dia. x 9" pitch SST			
*Horsepower established at sea lev	ACCORDED TOTAL	001 /300 m) -h 1-		coror or mis sering./
inorsepower established at sea lev	ver. Allow 270 reduction per 10	ou (soum) above sea le	vel.	

^{*}Horsepower established at sea level. Allow 2% reduction per 1000' (300 m) above sea level.