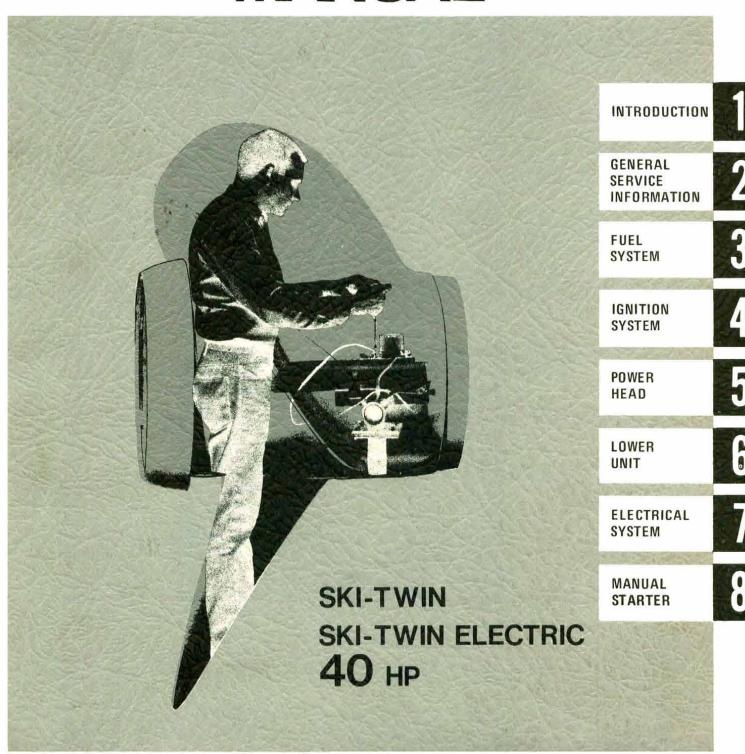
1971 EVINRUDE SERVICE MANUAL



MODELS 40102 · 40103 · 40152 · 40153

SPECIFICATIONS

Model Numbers	40102 - Standard length (15" transom)	Propeller options	3 blade, 10-3/8" dia. x 11-1/2" pitch	•
	40103 - 5" longer (20" transom) 40152 - Standard length		3 blade, 10-1/2" dia. x 12" pitch	
	(15" transom) 40153 - 5" longer (20" transom)	I	3 blade, 10-3/8" dia. x 14" pito 3 blade, 11" dia. x 9" pitch	ch
Horsepower (B.I.A. certified)	40 hp at 4500 rpm	Speed control	Knob on steering bracket or re-	_
Full throttle operating range	4000 to 5000 rpm		mote control. Synchronized throttle and spark	
Tank test with test wheel	4300 rpm Part Number 378566	Gear shift control	Forward, neutral, and reverse	2
Engine type	2 cyl., 2 cycle, alternate firing	Weight (without fuel tank)	Model 40102 - 128.5 lbs. Model 40103 - 132 lbs. Model 40152 - 140 lbs.	
Bore and stroke	3-3/16" bore x 2-3/4" stroke	turni,	Model 40153 - 144 lbs. (Fuel tank weight 11 pounds n	net)
Piston displace- ment	43.9 cubic inches	Fuel capacity	6 gallons	
Piston ring sets (2 p standard .030" oversize	per set) Part Number 384699 Part Number 384718	Starter	Ski-Twin - Simplex self-windir Ski-Twin Electric - Electric	ng
Diameter of ring	3.1875 in. (standard)	Starter amperage draw while cranking 120 AMPS Max.		
Width of ring	Upper09000895 in. Lower06150625 in.	Ignition	Flywheel magneto	
Lbs. compression	Upper5 to 2.5 lbs.	Spark plug	AC-M42K, Champion J4J, 14m	m
recommended when compressed	Lower - 4 to 8 lbs.	Spark plug gap	.030 inch	
Piston less rings standard	Part Number 384692	Spark plug torqu Breaker point	e 17-1/2 - 20-1/2 foot-pounds Gap .020 inch	
.030" oversize Crankshaft size	Part Number 384715	The state of the s	And the second s	
Top journal Center journal	1.2500 - 1.2495 1.0009995	Condenser Capacity	Part Number 580422 .25 - 29 Mfd.	
Bottom journal	1.0009995	Part No. 580416 Coil Test Specifications		
Connecting rod crank pin	1.1828 - 1.1823 in.	Old Stevens Test		
Carburetion	Single barrel, float feed, high-	Switch	Index Reading	
	and low-speed adjustments, manual choke or electric choke	A	2.0 - 2.5	
Float level setting	Flush with rim of casting	New Stevens Tes Switch	ter Model No. M.A75 Index Adjustment	
Inlet needle seat	.065062 Use #52 drill as gage	A	22	
Cooling system	Centri-matic (combination	Merc-O-Tronic		
. 	positive displacement and centrifugal pump)	Operating	Primary Secondar Resistance Continuit	ty
Propeller gear	12:21	Amperage 1.4	Min. Max. Min. Max .4555 35 - 45	x. —
Propeller drive	Part Number 304575, 1/4" x 1-15/32" stainless steel	Graham Tester	Model 51	
pin		Maximum Maxim Secondary Prim	No. 0 125 No.	
Propeller supplied with motor	3 blade, 10-1/2" dia. x 13" pitch	5500 1.		

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

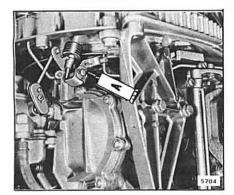


Figure 2-3. Cam Follower Linkage and Locking Lever

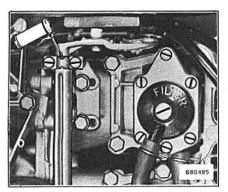


Figure 2-4. Throttle Shaft
Bearing and
Magneto Linkage

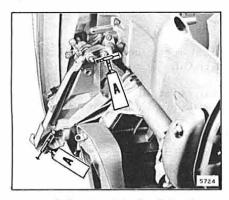


Figure 2-5. Throttle Shaft Bushings and Gears

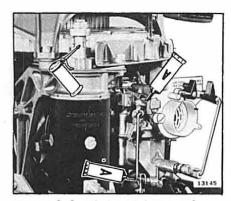


Figure 2-6. Choke Linkage and Starter Pinion Gear Shaft

LUBRICATION POINTS

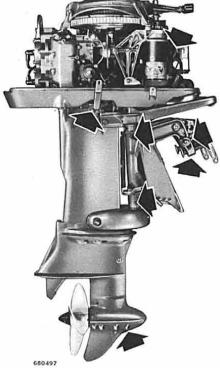


Figure 2-1. Starboard Side, 40 H.P. Electric

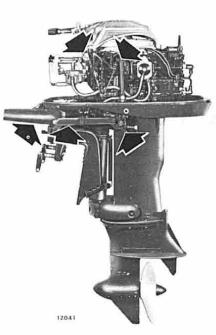


Figure 2-2. Port Side, 40 H.P. Manual Start

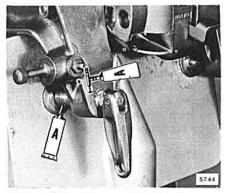


Figure 2-7. Tilt Lock Pin and Clamp Screws



Figure 2-8. Gearcase

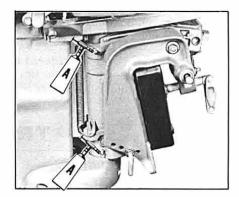


Figure 2-9. Swivel Bracket Fittings and Reverse Lock

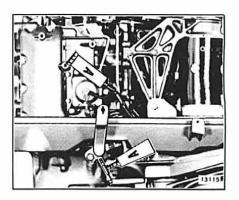


Figure 2-10. Gear Shift Lever Shaft and Lockout