

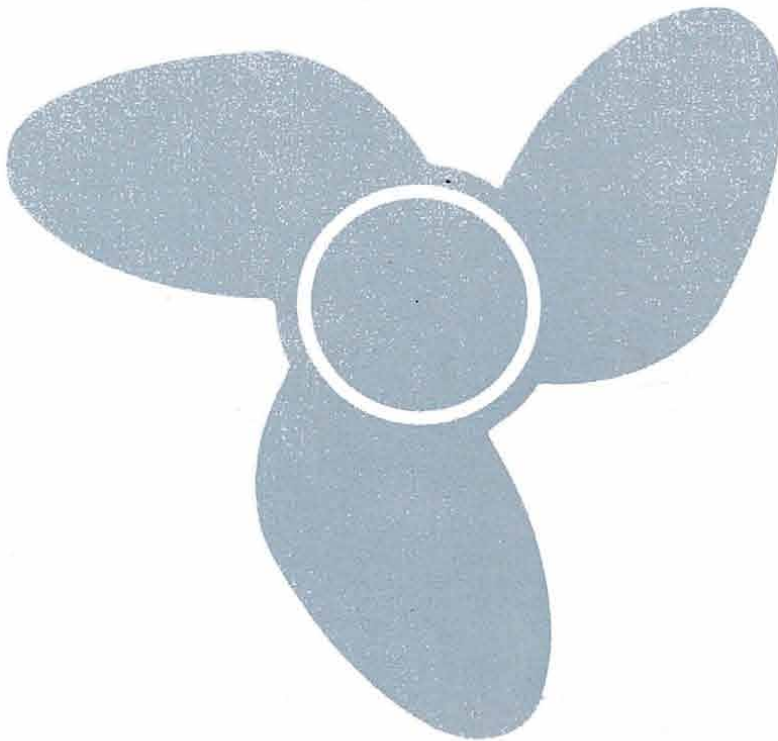
1980

EVINRUDE

SERVICE MANUAL

60 HP models

E60ECS - E60ELCS



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SAFETY



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NATIONAL ASSOCIATION
OF SERVICE MANAGERS
MEMBER

SPECIFICATIONS

Model Numbers E60ECS (standard length)
 E60ELCS (5" (127 mm) longer)
 *Horsepower (B.I.A.-certified) . . 60 hp (42.4 kW) at
 5500 rpm
 Full throttle operating range . . . 5000 to 6000 rpm

NOTE

The recommended full power operating range for this outboard motor is from 5000 - 6000 rpm. In order to get the best performance, the upper end of this range, from 5500 - 6000 rpm is the engine speed to use selecting the proper propeller. The rpm should be measured with your expected average load in the boat.

Tank test with test wheel
 Part No. 387635 5600 rpm
 Idle speed 1000-1100 rpm (neutral)
 700-750 rpm (in gear)
 Engine type 2 cycle, 2 cylinders in line
 Bore and stroke 3.1875" bore x 2.820" stroke
 (80.96 x 71.63 mm)
 Piston displacement 45.0 cu. in. (737 cm³)
 Piston ring sets
 (2 per set) standard Part No. 391170
 0.030" oversize Part No. 391416
 Width of ring
 Upper, 0.0900" - 0.0895"
 (2.286 - 2.273 mm)
 Lower, 0.0625" - 0.0615"
 (1.588 - 1.562 mm)
 Piston without rings
 Standard Part No. 390457
 0.030" oversize Part No. 391417
 Crankshaft size
 Top journal 1.4979" - 1.4974"
 (38.047 - 38.034 mm)
 Center journal 1.3752" - 1.3748"
 (34.930 - 34.920 mm)
 Bottom journal 1.1815" - 1.1810"
 (30.010 - 29.997 mm)
 Connecting rod crank pin 1.1828" - 1.1823"
 (30.043 - 30.030 mm)
 Carburetion 2 carburetors - Float feed.
 Manual and remote control choke
 Float level setting Between notches on
 gauge No 324891
 High speed orifice plug Part No. 320921
 Hole size 0.055" (1.40 mm)

Idle orifice plug Part no. 325827
 0.044" (1.12 mm)
 Intermediate orifice plug Part no. 323703
 0.036" (0.91 mm)
 Inlet needle set . . 0.065" - 0.062" (1.65 - 1.57 mm)
 Use a #52 drill as gage.
 Cooling system Temperature and
 pressure controlled system
 Propeller gear ratio 12:29
 Propeller supplied with motor (Aluminum)
 3 blade 11-3/4 dia. x 17" pitch
 Alternate propellers (Aluminum) 3 blade,
 13" dia. x 11" pitch
 (Aluminum) 3 blade, 12-1/2" dia. x 13" pitch
 (Aluminum) 3 blade, 11-3/4" dia. x 17" pitch
 (Aluminum) 3 blade, 11-1/2" dia. x 19" pitch
 (SST) 3 blade, 12-1/2" dia. x 13" pitch
 (SST) 3 blade, 12-1/4" dia. x 15" pitch
 (SST) 3 blade, 11-3/4" dia. x 17" pitch
 (SST) 3 blade, 11-1/4" dia. x 19" pitch
 Speed control Remote control synchronized
 throttle and spark
 Gear shift control Forward, neutral,
 reverse - remote control
 Weight
 (without fuel tank) . . Standard - 180 lbs. (81.6 kg),
 Long - 187 lbs. (84.8 kg)
 (Fuel tank weight 11 lbs. (5.0 kg) net)
 Fuel capacity 6 gallons (22.7 litres)
 Starter Electric with emergency rope
 Electrical system 5 amp alternating current
 generator
 Starter amp draw when cranking
 (Prestolite) 160 amperes maximum
 (Bosch) 110 amperes maximum
 Ignition (Magneto breakerless C.D.) CD-2
 Timing 21° @ 3500 minimum rpm in gear
 Spark plug Champion L77J4 or
 AC M40FFX
 Spark plug torque 17-1/2 - 20-1/2 ft.-lbs.
 (24-27 N·m)
 Spark plug gap 0.040" (1.0 mm)
 Ignition coil Part No. 581997

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

IGNITION COIL TEST SPECIFICATIONS

Stevens Model ST-75
 Reverse Polarity (Switch Setting CD) 1.2
 Stevens Tester Model M.A.-75 or M.A.-80
 Switch A (Use Model CD-1 Adapter - Red
 test clip to orange/black -
 Black test clip to orange
 Index Adjustment 20
 Merc-O-Tronic with
 Capacitor Discharge Adapter Model 55-980
 Operating Amperage 1.4

Primary Resistance 0.1 Ohm or less
 Secondary Continuity Approx 5
 Graham Tester Model 51
 Maximum Secondary 1,000 ohms
 Maximum Primary5 ohm
 Coil Index 50
 Coil Test Minimum Amplified 17
 (With secondary circuit "open")
 Hi tension lead disconnected
 Gap Index 50 (Coil must fire sprak gap on
 tester at this setting)

LUBRICATION POINTS

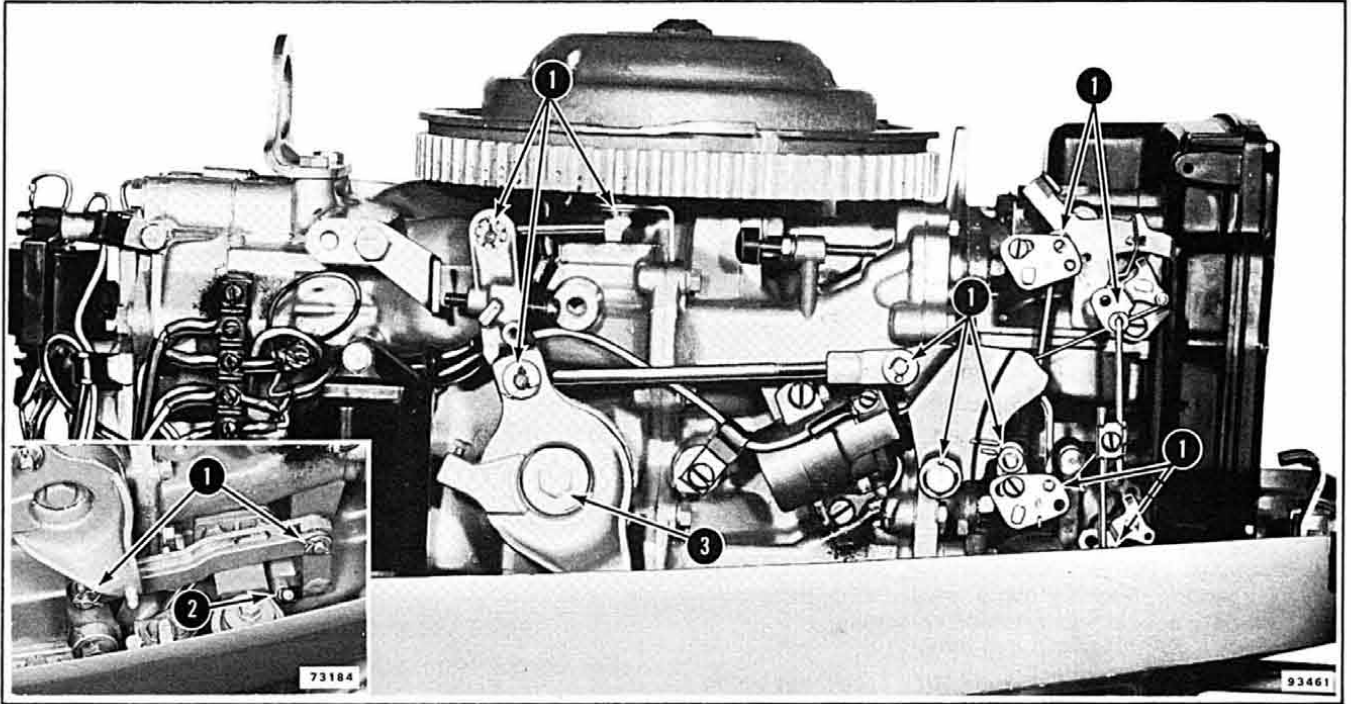


Figure 2-2.

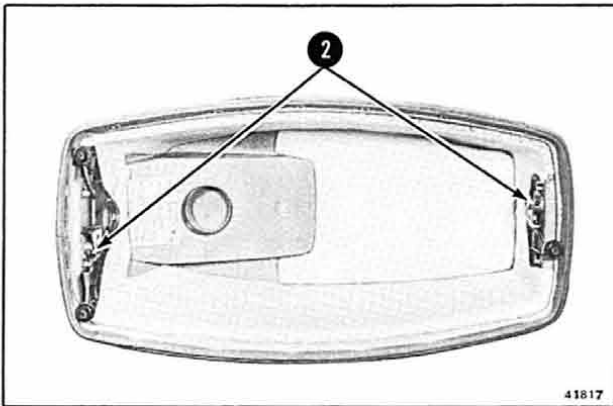


Figure 2-3.

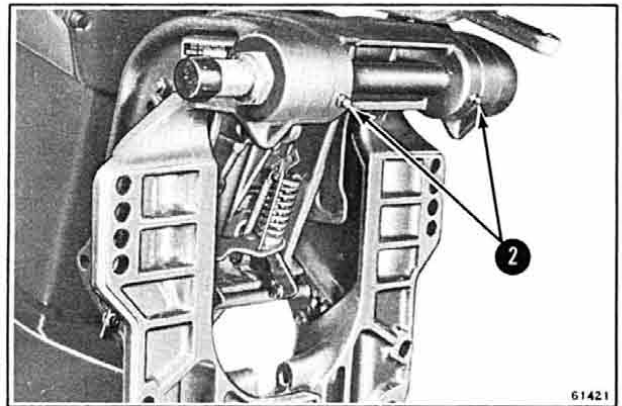


Figure 2-4.

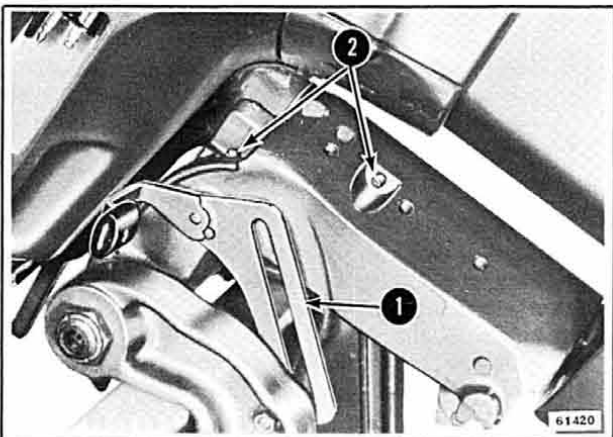


Figure 2-5.

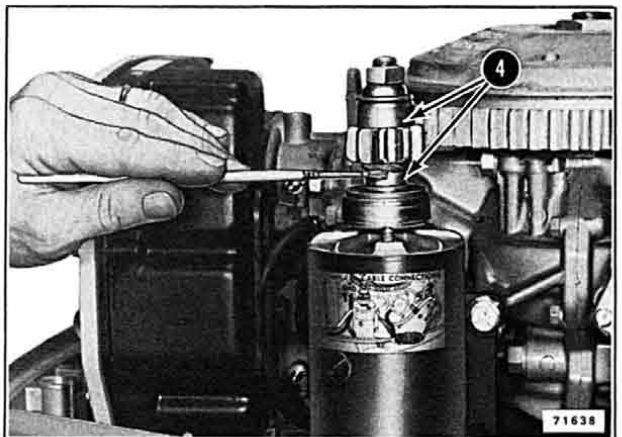


Figure 2-6.