

Fig. Mc4-31-Exploded view of lower unit gearcase, water pumps and associated parts used on weedless drive models of Fishing Scott and McCulloch 7.5.

- Water tube Bailer tube
- Grommet Drive shaft Disc Impeller
- Pump housing Impeller pin Exhaust cover
- 11. Snap ring Bearing housing 12.
- Seal Retainer
- Bearing
- Bearing Reverse gear Forward gear Vent plug 17. 18. 19. 20.
- Drive pinion Detent

- Drain plug Propeller shaft Shift spring 24. 25.
- 26. 27. Cap Clutch dog
- 28
- Shift plunger Shift rod
- Grommet Plate
- Spacer Nut 33
- Grommet Shim Water tube
- 36. 37.
- Shift cam

original clutch dog was 0.500 in width (measured horizontally when clutch dog is in operating position). This dimension was increased to 0.550 to obtain a greater engaging area. The two styles are interchangeable and the new style should be used whenever the unit is disassembled. Part number of the new clutch dog is 70417.

To detach the gearcase housing from the lower unit, first remove the motor

shroud and power head, then detach the lower swivel bracket (21-Fig. Mc4-32) from exhaust housing (4). Disconnect the lower shift rod (29-Fig. Mc4-31) from the actuator (13—Fig. Mc4-32). Remove the two cap screws securing the gearcase housing (23-Fig. Mc4-31) to the exhaust housing and withdraw the unit straight down out of exhaust housing. Cooling system and bailer pumps, and the driveshaft,

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Fig. Mc4-32-Exploded view of lower motor housing used on Fishing Scott and McCulloch 7.5 with weedless drive. Standard drive models are similar except for shift mechanism.

- Gasket
- Seal Molding
- Bushing
- Drain eyelet Bailer fitting
- Grommer Shift rod
- Shift voke Bracket
- Shift lever Shift arm
- Fitting Hood latch
- Latch release
- Spring Throttle arm

- 18. Throttle arm 19. Pin 20. Connector 21. Swivel bracket

pinion and forward gear can be removed and serviced. Refer to WATER PUMP paragraph for details. If shift rod or shift mechanism is removed, pay particular attention to the position of the shift rod (29) with relation to the selector cam (37). When assembling, turn the shift rod into selector cam until it bottoms, then back off until the offset upper end of rod is aligned with cam surfaces of selector as shown at (A-Fig. Mc4-33). Make sure seals (S) are in place. Lock the assembly in position by tightening the locknut (33-Fig. Mc4-31). Detent plunger (21) is retained in housing by selector cam (37) and will be released when cam is removed. Use care not to lose the plunger and spring, and make sure they are correctly installed when reassembling. When the lower unit is assembled, adjust the shift mechanism as outlined in the ADJUSTMENT para-

All McCulloch 9 and McCulloch 7.5 with Standard Drive. Refer to Fig. Mc4-34. To detach the gearcase housing from lower motor casing, remove the two retaining cap screws and withdraw the gearcase and associated parts. Remove the drain and vent plugs and allow lower unit gearcase to drain.

Remove the retaining cap screws and lift off bailer pump housing (37) and impeller (35); remove the upper drive pin (42), then lift off anti-cavitation plate (36) and water pump impeller (35). Remove lower drive pin (42) and lift off water pump housing (34).

Mark the position of actuating notch in shift pin (44) and withdraw the pin and "O" ring seals (43). Inlet water line (45) may also be withdrawn at this

Remove the propeller, propeller drive pin and the cap screws retaining bearing cap (1) to gearcase. Twist the

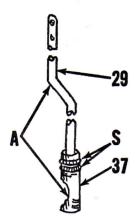


Fig. Mc4-33-Schematic view of shift rod and shift cam used on models with weedless drive When assembling, offset portion of shift roc (29) must be aligned with flat of cam (37) as shown at (A). Be sure seals (S) are installed.