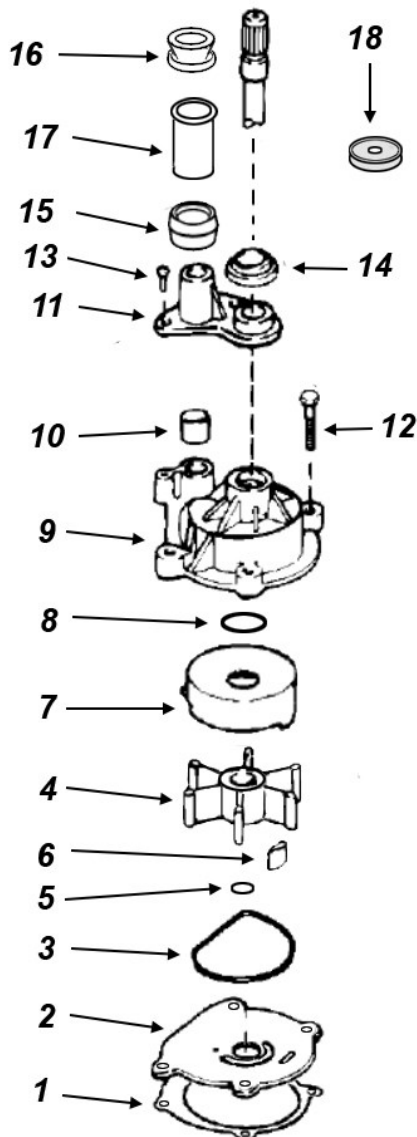


MTM5001595 Water Pump Repair Kit

Evinrude Johnson V4 & V6 motors

Useful Chemicals: OMC Gasket Sealer (Loctite 518 or Perfect Seal are equivalent)
Adhesive "M" (3M Scotch-Grip 847 is equivalent)
Vaseline, oil, or similar lubricant to ease impeller installation
(Most parts stores have Loctite and 3M products)



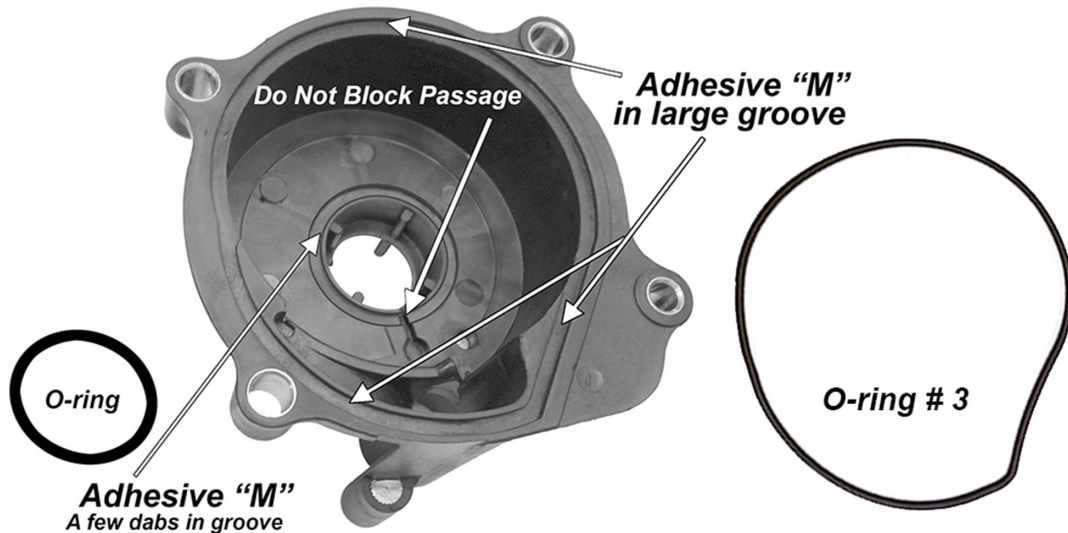
1. wear plate gasket
2. wear plate
3. housing o-ring
4. impeller
5. o-ring
6. impeller key
7. insert
8. insert o-ring
9. housing
10. water tube grommet
11. impeller housing cover
12. housing bolt (4)
13. housing cover screw (2)
14. pump to exhaust housing grommet
15. water tube sleeve, 20" models
16. water tube sleeve (25" & 30" models)
17. water tube (see note)
18. shift rod grommet

NOTE # 17 short tube 20" models
long tube 25" & 30" models

Remove the 4 bolts securing the pump housing (#12)

Slide the housing with wear plate (#1 thru #9) up off of the driveshaft and remove wear plate (#2), gasket (#1), impeller cam (#6), impeller (#4), and o-ring (#3).

Apply a thin coat of a good tacky gasket sealer such as OMC Adhesive "M" , Scotch-Grip 847, or equivalent (do NOT use silicone) in the large groove in the plastic housing . Also apply a few dabs in center o-ring groove to hold o-ring in place during assembly. Take care not to get any in the air bleed passage; otherwise, the pump will lose prime and not pump water. Set small o-ring (#8) into center groove and large o-ring # 3 into outside groove, matching the contour.

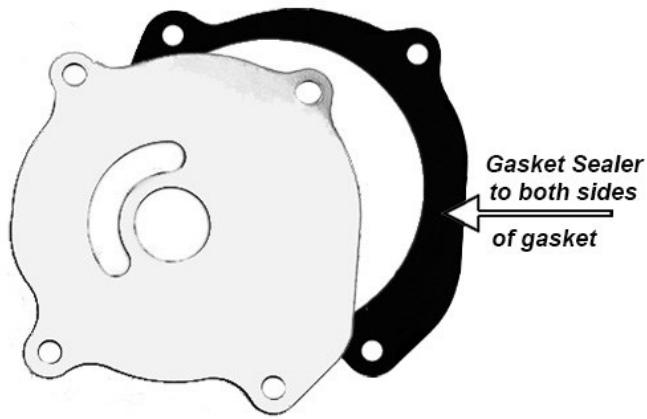


Install water tube grommet # 10 into housing with the *inside tapered end* facing up:



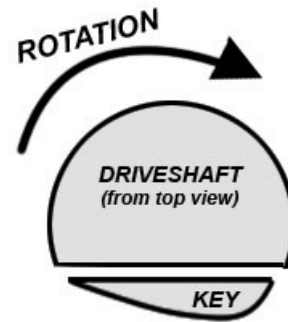
Install grommet # 14 on cover, then attach cover to housing. You can use gasket sealer on the threads





Compare plate to pump housing to make sure the gasket and plate orients correctly, then apply a thin coat of OMC Gasket Sealer to both sides of gasket surface and assemble to bottom of wear plate. Then slide plate over driveshaft to gearcase.

Slide o-ring # 5 down driveshaft and using it as a retainer, install the impeller cam. Slide impeller down and, aligning it with the cam, press it down, turning it in a CLOCKWISE direction to seat it in place on the shaft.



Holding the cup # 7 in place over the impeller, rotate the driveshaft CLOCKWISE while pressing down to get the impeller fit into the cup. Be sure to coat inside of cup first with outboard oil, Vaseline, or similar lubricant to help ease the impeller into the cup.

Slide housing down, aligning the cutout with the lip on the cup. The lock tab on top of the cup should fit the small hole inside the housing.

Rotate shaft and housing CLOCKWISE until the bolt holes align, install bolts, and tighten down securely.