

75, 80, 90 hp:

Reverse gear backlash	Decrease or increase
Less than 0.67 mm (0.026 in)	Thickness of shim to be increased (mm) = (0.84 – measurement) × 0.60
0.67 – 1.00 mm (0.026 – 0.039 in)	Decrease or increase will be unnecessary
More than 1.00 mm (0.039 in)	Thickness of shim to be decreased (mm) = (measurement – 0.84) × 0.60

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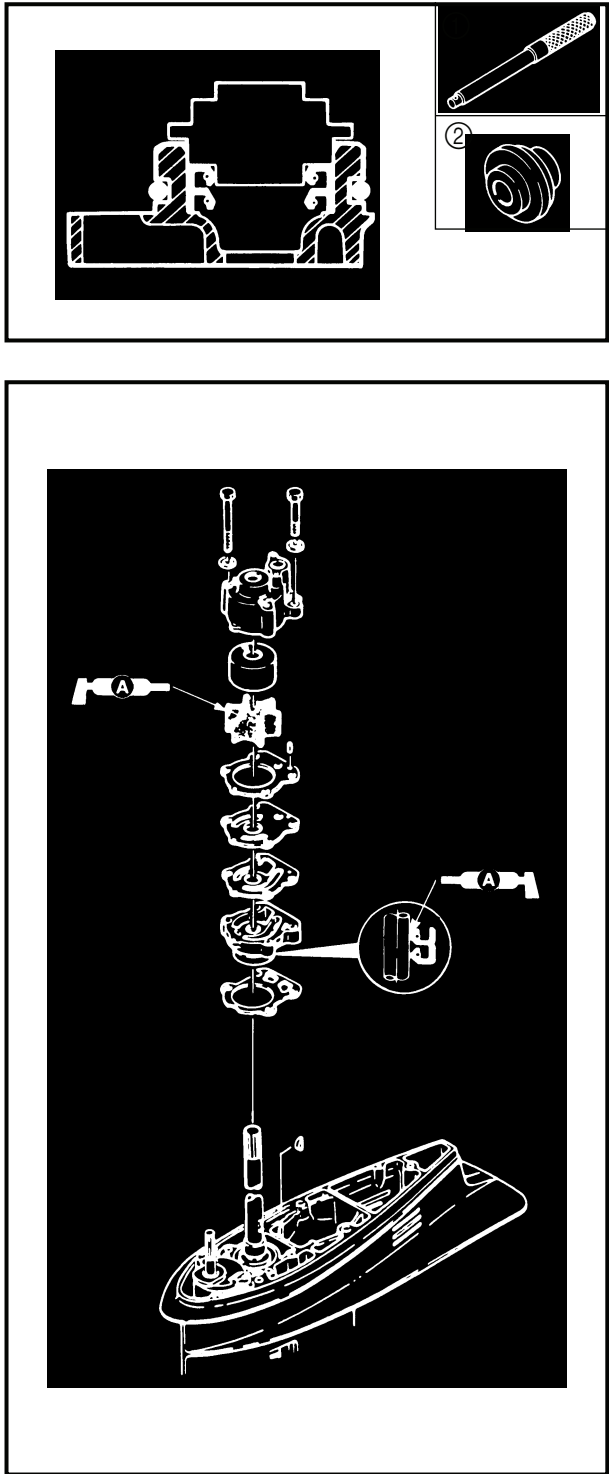
WATER PUMP INSTALLATION

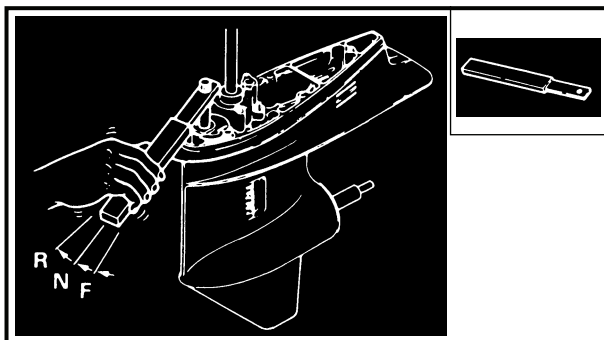
1. Install a new oil seal in the oil-seal housing, and fit a new O-ring in the O-ring groove.



Driver rod:
YB-6071..... ①
Oil seal attachment:
YB-6269..... ②

2. Grease the O-ring and the lip of the oil-seal, then install the oil-seal housing complete to the gear-case and fit the dowel-pins.
3. Aligning with the dowel-pins, install a new gasket, a plate and a new gasket on the oil-seal housing.
4. Install a key in the keyway on the drive-shaft and insert a impeller.
5. Grease the impeller and install the water-pump housing, turning the drive shaft clockwise, then tighten the bolts.





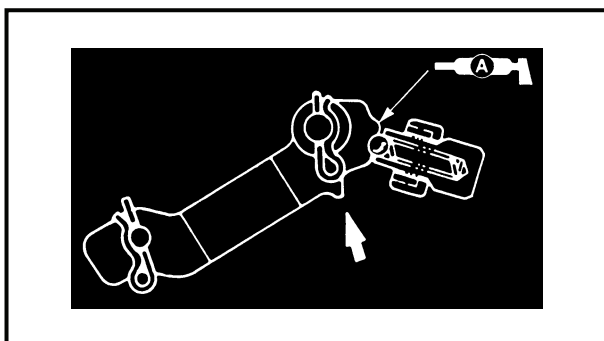
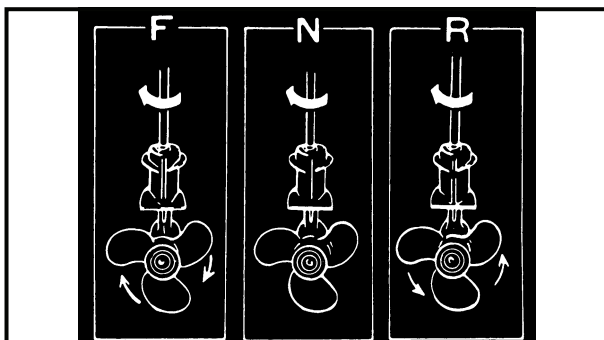
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INSTALLATION

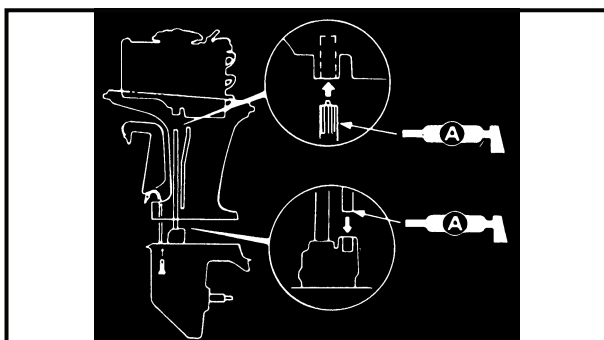
1. Check that the clutch dog shifts to "Forward", "Neutral" and "Reverse" correctly by turning the shift rod, and shift into "Neutral".



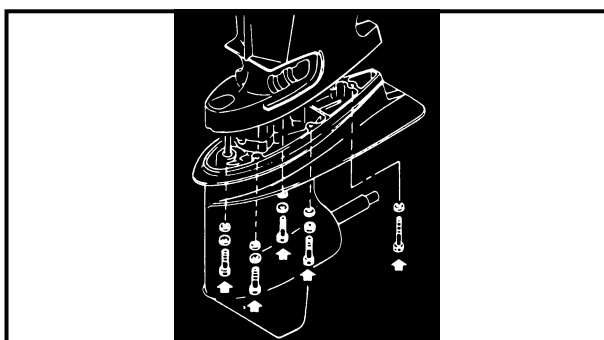
Shift rod wrench:
YB-6052



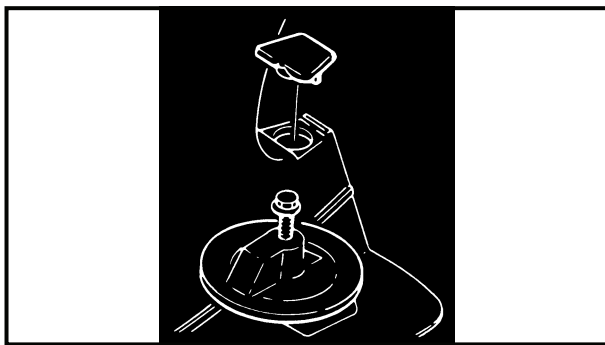
2. Align the mark on the shift lever with the arrow mark on the bottom cowling.



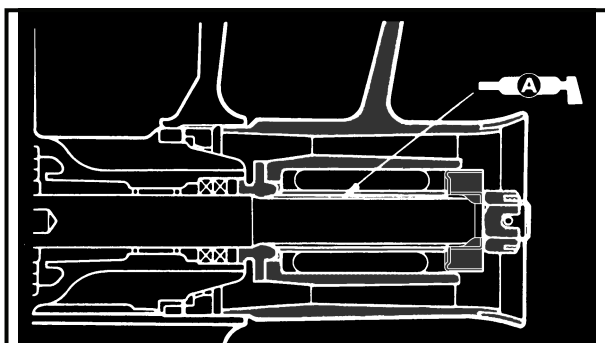
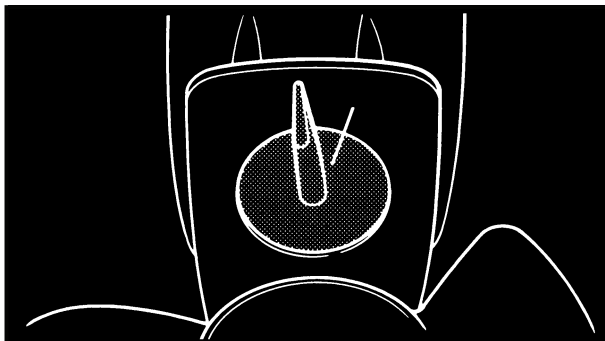
3. Grease the spline of the drive-shaft and the water-tube outer face, align the water-tube and drive-shaft, install the lower unit and tighten the bolts to the specified torque.



Lower unit mounting bolts:
40 Nm (4.0 m • kg, 29 ft • lb)



4. Install the trim tab on the gear case. Be sure to align the marks put on both of them when they were removed. Place the cap over the bolt hole.



5. Install the spacer, propeller, spacer, bushing, and propeller nut over the propeller shaft.

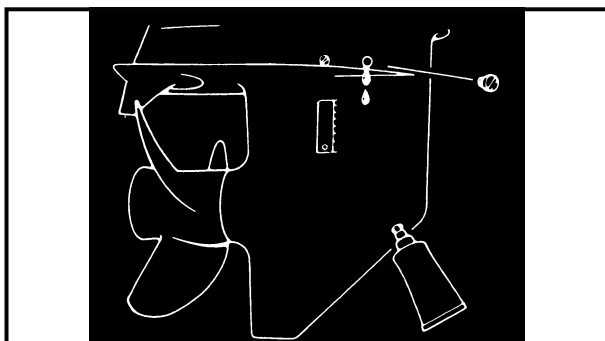
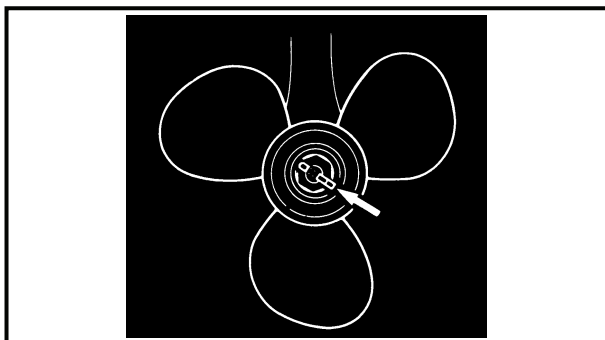


Propeller nut:
35 Nm (3.5 m • kg, 25 ft • lb)

6. Align the recess in the propeller nut with the hole in the propeller shaft and insert the cotter pin into the hole. Be sure to bend the cotter pin ends.

NOTE:

If the propeller nut does not align with the propeller shaft hole when the nut is tightened to specification, turn it in further so that they align.



7. Fill with fresh gear oil through the oil plug-hole until oil flows out through the level-plug hole, then secure the plugs in these two holes. (Secure the check plug first.)