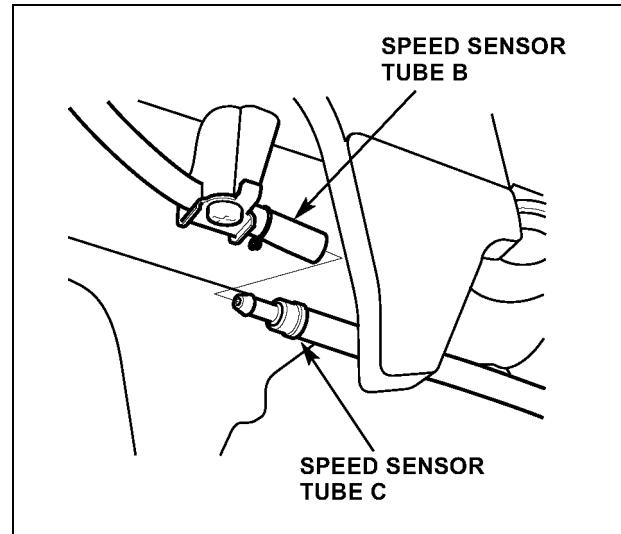




Water Pump Replacement for BF115D•BF135A•BF150A Outboard Motors

Prior to removing the gear case, make sure the outboard motor is secure on an engine stand or transom of a boat that is out of the water. Tilt the outboard motor up to the highest position and place the shift lever in the "N" (neutral) position.

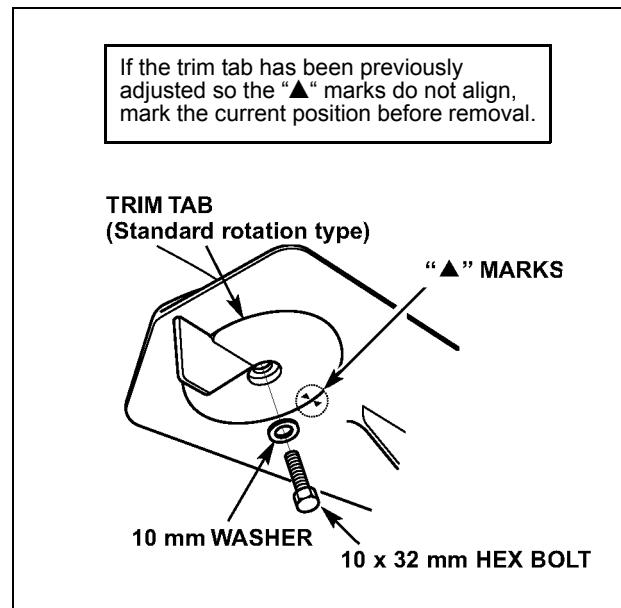
Disconnect speed sensor tube C from speed sensor tube B at the joint located under the mounting case.



Remove the 10 x 32 mm trim tab (or gear case cover) bolt to gain access to the gear case rear mounting bolt.

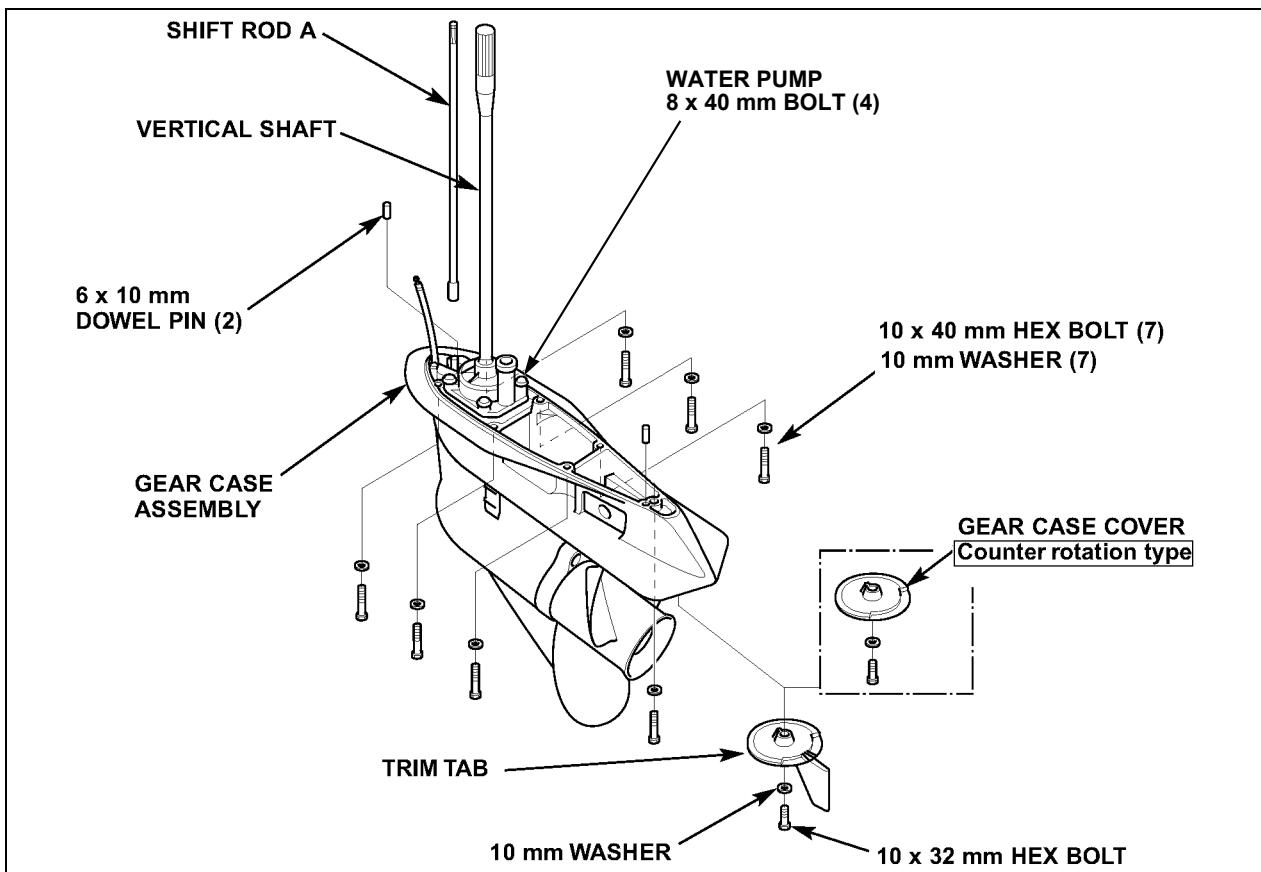
For standard rotation models with a trim tab, check if the trim tab has been previously adjusted. If the "▲" marks do not align, mark the current location so the trim tab can be reinstalled in the same position.

If the trim tab has been previously adjusted so the "▲" marks do not align, mark the current position before removal.



HONDA MARINE

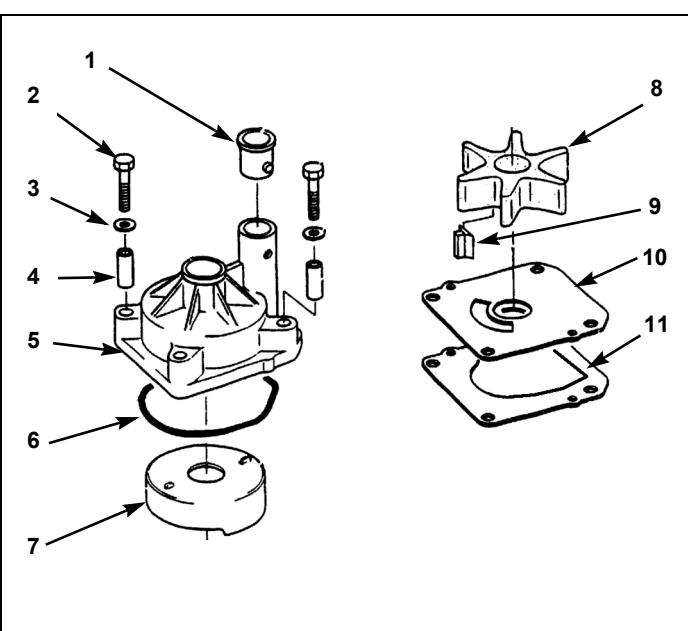
Remove the seven 10 x 40 mm bolts and washers and remove the gear case assembly. The vertical shaft will stay connected to the gear case, so remove the gear case without twisting, and then place the unit on a workbench.



Remove the four water pump 8 x 40 mm bolts and washers and remove the pump assembly over the vertical shaft.

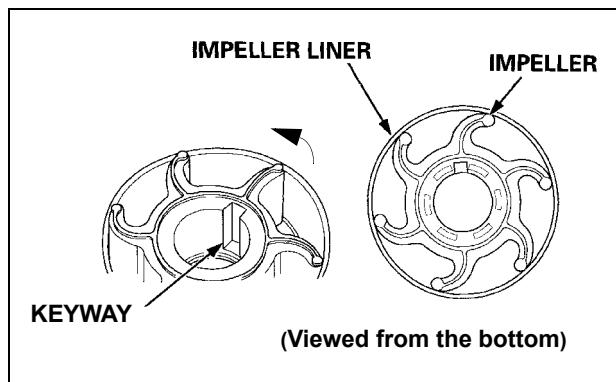
Clean all parts and check the impeller, liner, and cover for wear or cracks.

TYPE KIT	CONTENTS	PART NUMBER
Service kit	Impeller, Gasket, Woodruff key, O-Ring	06192-ZY6-000
Rebuild kit	1- Seal ring 2- Bolt (4) 3- Washer (4) 4- Collar (4) 5- Housing 6- O-Ring 7- Liner 8- Impeller 9- Woodruff key 10- Cover 11- Gasket	06193-ZY6-000 (up to SN 1300562) 06193-ZY6-A01 (SN 1300563 and subsequent)



Start reassembling the pump by applying marine grease to the inner surface of the impeller liner, housing O-ring, and the water tube seal rubber.

Install the impeller by turning it counterclockwise into the impeller liner. Make sure the open end of the keyway is visible and will face out when installed in the pump.



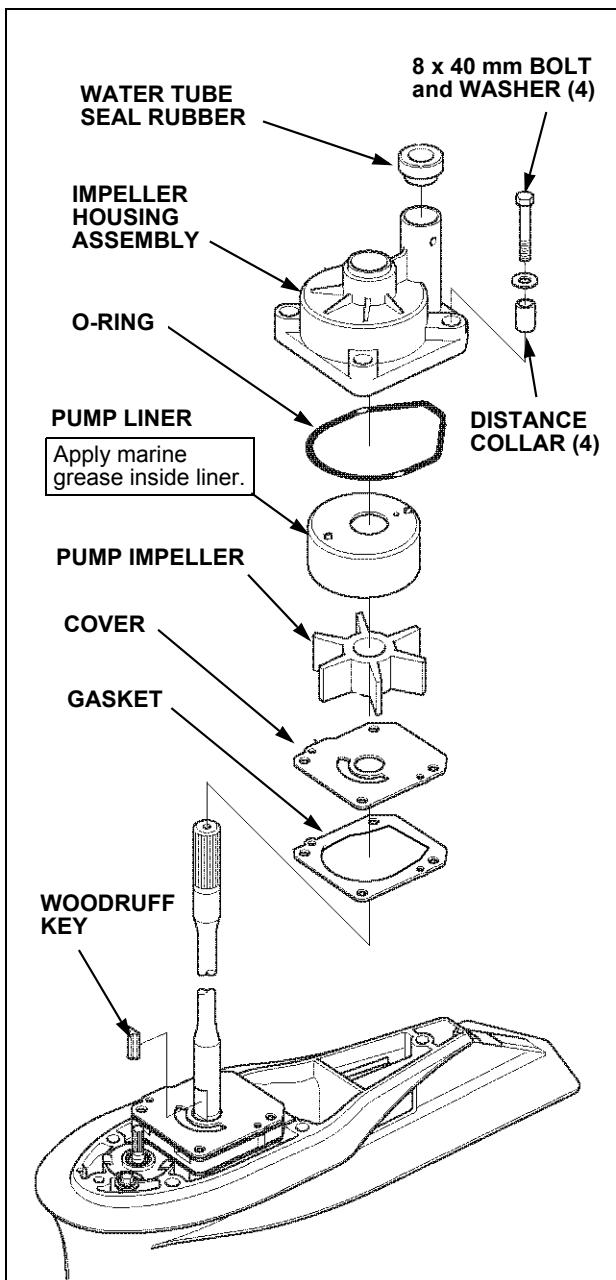
Insert a new greased O-ring and water tube seal rubber and four distance collars into the impeller housing. Install the pump liner/impeller into the housing.

Slide the pump gasket and cover over the shaft, aligning the holes with the pump base.

Place a small amount of marine grease on the Woodruff key and insert it onto the flat surface of the vertical shaft.

Slide the impeller housing assembly over the shaft, making sure to align the Woodruff key with the impeller keyway.

Install the 8 x 40 mm bolts, water tube seal holder, and two washers and torque to **14 ft•lb (19.7 N•m)** in a crisscross pattern to make sure the housing seats correctly.

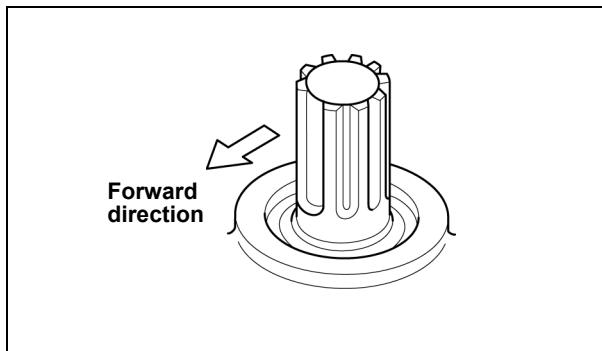


HONDA MARINE

Check that the shift rod in the gear case is in the "N" (Neutral) position.

The cutout in the shift rod spline will be in the forward direction as shown.

Note that A2 thru A5 counter-rotating models will have the cutout in the rearward direction.

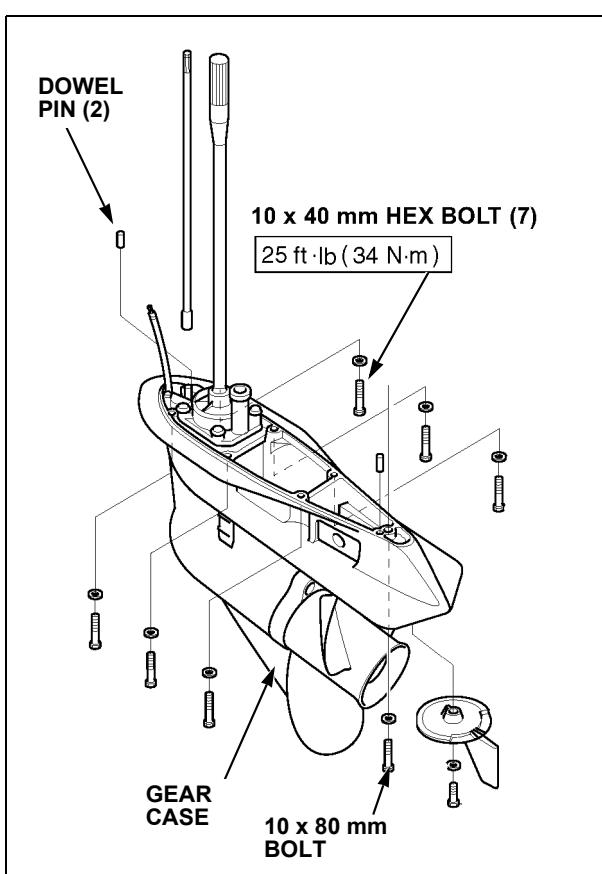


Apply marine grease to the water tube seal ring, vertical shaft splines, and two dowel pins.

Install the gear case assembly into the motor making sure the speed sensor tube is routed into the opening of the extension case.

Start threading the seven 10 x 40 mm bolts and washers to hold the gear case in place.

Torque the 10 mm gear case bolts to **25 ft·lb (34 N·m)**.



Install the trim tab (or gear case cover) by aligning the "▲" marks as shown (or marks previously made).

Install and tighten the 10 x 32 mm bolt and washer.

Attach speed tube sensors located under the mounting case.

