




ENGLISH


Water Pump Replacement Kit P/N 387362

Safety Considerations

These instructions will alert you to certain things you should do very carefully. If you don't, you could . . .

- hurt yourself, or bystanders
- hurt boat operator, passengers
- damage the machinery

Safety symbol, , appears next to information important to prevent you and others from being hurt.

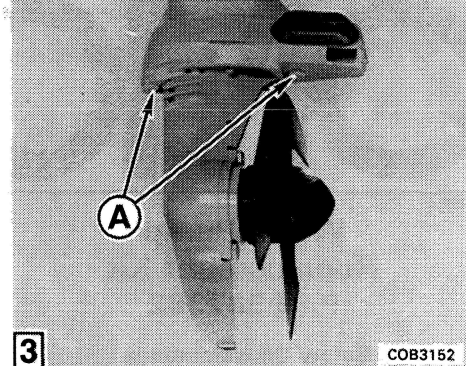
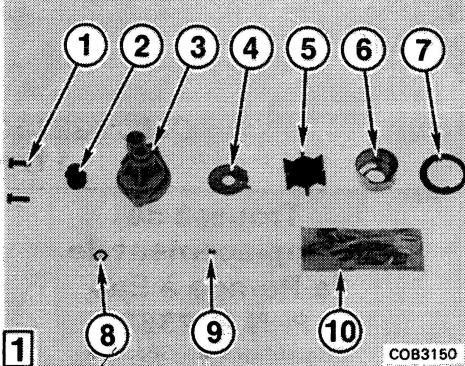
Note symbol, , appears next to information important to keep machinery from being damaged.

IMPORTANT: The important safeguards and instructions appearing in these directions cannot cover all possible conditions or situations that occur. The person following these directions must use common sense, caution and care.

Product Reference & Illustration

When reference is made to a brand name, product or specific tool, an equivalent product may be used in place of the referred to product. Substitute products used must have equivalent characteristics, including type, strength, and material. Incorrect substitution may result in product malfunction and possible injury to the operator and/or passengers.

All photographs and illustrations used may not necessarily depict actual models or equipment, but are intended only for reference. Specifications used are based on the latest product information available at the time of publication.



ENGLISH
Preface

This replacement kit is used on 1970 and later 2 models and 1972 thru CS 4 models.

Actions to be Performed

- Step 1. Preparation for Installation
- Step 2. Removal of Gearcase
- Step 3. Removal of Water Pump
- Step 4. Installation of Water Pump Kit
- Step 5. Installation of Gearcase
- Step 6. Function Test of Gearcase

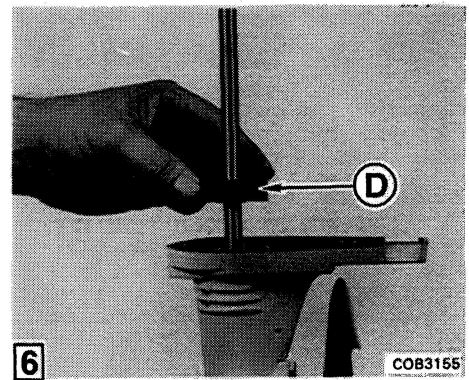
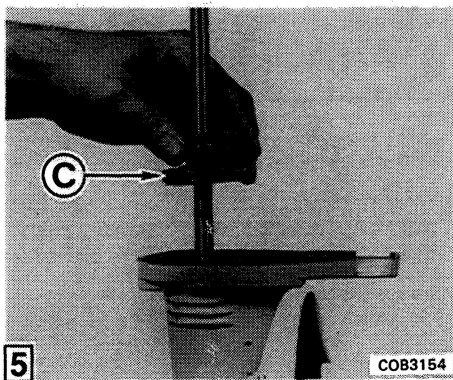
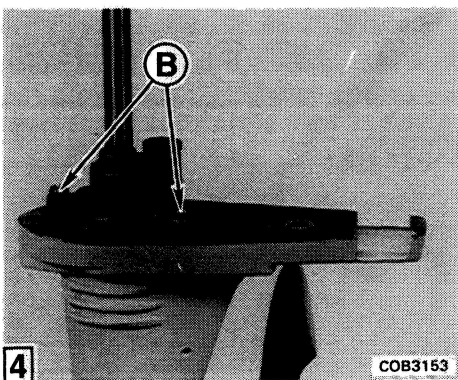
Step 1. Preparation for Installation

1. Read complete installation instructions prior to starting work.


1 2. Check contents of kit.

Ref. No.	Name of Part	Qty.
1	Screw - water pump	2
2	Grommet - water tube	1
3	Water pump - housing	1
4	Plate	1
5	Impeller	1
6	Cup	1
7	Spacer	1
8	O-ring	1
9	Pin - impeller	1
10	BMCA Moly Lube	1

DEUTSCH

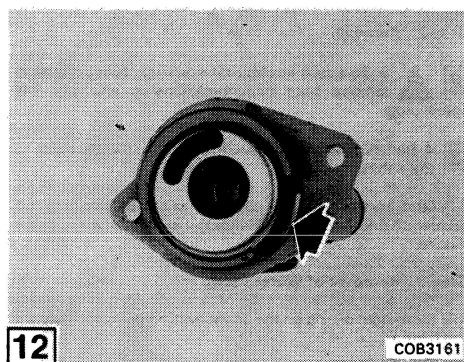
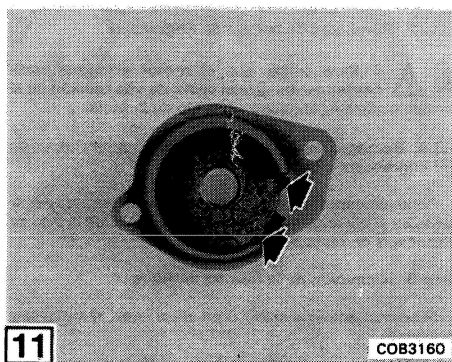
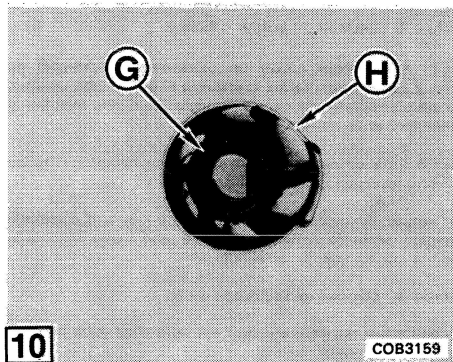
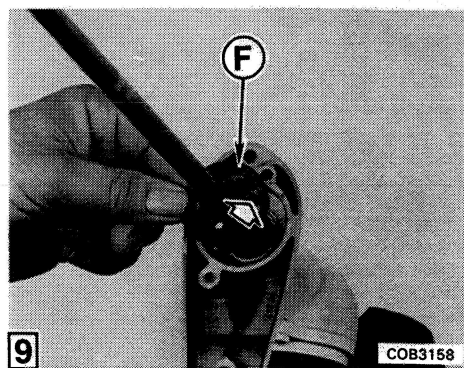
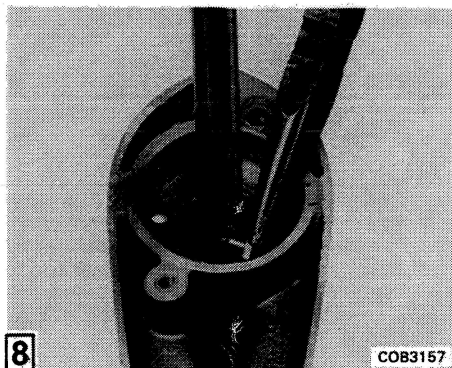
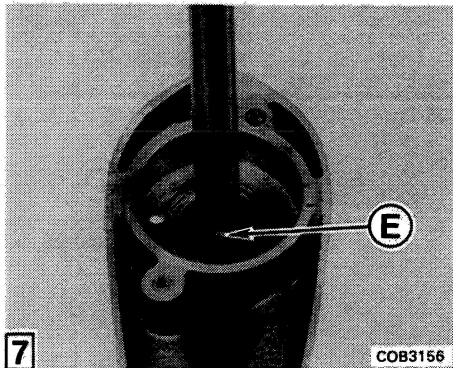


ENGLISH
Step 2. Removal of Gearcase

- 2**  **3.** To avoid accidental start-up, twist the high tension lead counterclockwise and pull off spark plug.
- 3** **4.** Remove the two screws (A) attaching the gearcase to the exhaust housing.
- 5.** Withdraw the gearcase carefully to avoid damaging the driveshaft and water tube. Mount the gearcase in a suitable fixture.

Step 3. Removal of Water Pump

- 1.** If there is an o-ring on the driveshaft, remove and discard the o-ring.
- 4** **2.** Remove the two water pump screws (B), discard the two screws.
- 3. IMPORTANT:** Do not remove the driveshaft or pull it out of the gearcase so far that the pinion drops out of position.
- 5** **4.** Remove the impeller housing and the water tube grommet (C). Discard the housing and the grommet.
- 6** **5.** Remove and discard the impeller (D) from the gearcase.



ENGLISH

- 7** 6. Remove the impeller pin (E) from the driveshaft. Discard the pin.

Step 4. Installation of Water Pump Kit

1. Inspect the water pump cavity and the water inlet holes of the gearcase. Clean as required.

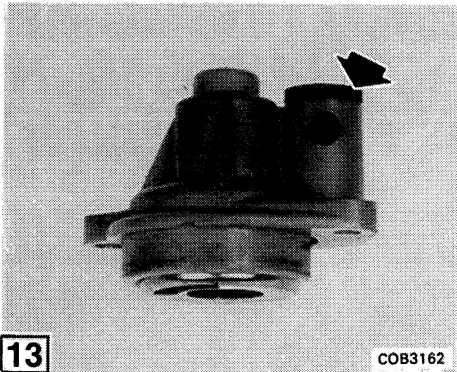
- 8** 2. Install the new impeller pin in the driveshaft by aligning the tee portion with the axis of shaft and pressing the pin in until the pin bottoms against the shaft.

9 3. Install the plastic pump spacer (F) in the pump cavity of the gearcase so that the side with two small prongs are toward the cavity and the prongs enter the large main water intake hole of the gearcase.

10 4. Lightly oil the impeller blades and install the impeller (G) in the housing cup (H) while turning in a clockwise direction, making sure the blades seat.

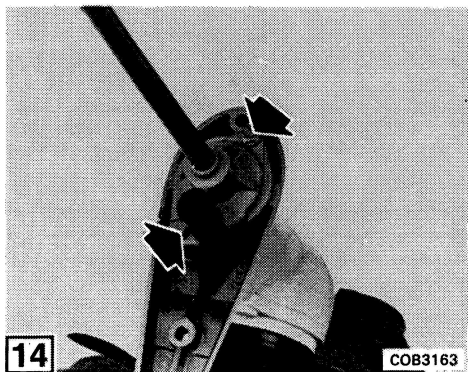
11 5. Place the impeller plate in the water pump body so that the long tabs extend into the water outlet opening.

12 6. Install the impeller and cup into the impeller body making sure the tabs on the cup are in the slot in the pump body.



13

COB3162



14

COB3163

ENGLISH

13 7. Oil the new water pump grommet and install it in the pump housing as shown.

8. Carefully turn the pump body to line up the screw holes with those in the gearcase

Note Only rotate the water pump housing in a counter-clockwise direction to prevent the impeller blades from being turned backward.

14 9. Coat the two screws with BMCA Gasket Sealing Compound, install the screws and tighten to a torque of 2,8-4,0 N-m (25-35 in. lbs.).

Note If an o-ring was removed from the driveshaft, replace with a new one supplied in the kit. Lubricate the o-ring and install it on the driveshaft groove.

Step 5. Installation of Gearcase

1. Apply oil or liquid soap in the water tube grommet.
2. Coat the driveshaft splines with BMCA Moly Lube. Do not coat the top surface of the driveshaft as lubricant here may prevent seating of the driveshaft in the crankshaft.
3. Apply BMCA Locquic Primer and BMCA Nut Lock to the threads of the gearcase retaining screws.
4. Install the gearcase using care to align the water tube grommet and driveshaft splines with the crankshaft. Turn the flywheel clockwise to align the driveshaft with the crankshaft.
5. Install the gearcase retaining screws and tighten screws to a torque of 7-9 N-m (60-84 in. lbs.).

Step 6. Function Test of Gearcase

1. Run the motor and check the cooling system operation as indicated by water spray from the idle relief hole.