



Installation Instructions

CAUTION

This symbol is used to indicate presence of hazards that can cause minor property damage.

1. Remove the following anti-drive end parts from the alternator:
 - a. Fan guard screws, grommets/grommet inserts, and fan guard.
 - b. Fan nut, fan washer and fan - save fan washer for reassembly. Discard fan and fan nut.

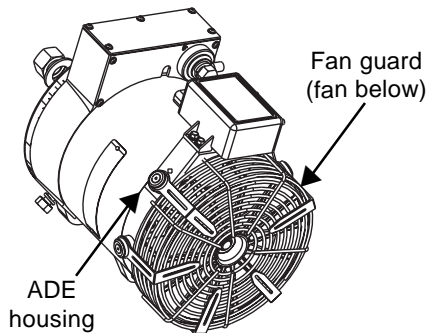


Figure 1 - C612 Alternator

2. Remove anti-drive end housing:
 - a. Scribe marks across ADE housing and shell to ensure proper position when alternator is reassembled.
 - b. Remove ADE locknuts and housing (discard locknuts).
 - c. Remove and discard O-ring from bearing bore.
3. Remove and discard anti-drive end bearing from shaft using a bearing puller.
4. Remove and discard spiral ring seal from groove in shaft.

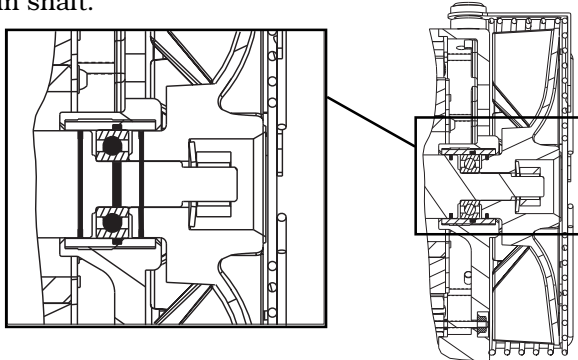


Figure 2 - C612 Assembly with Old-style Bearing

5. Wind new spiral ring seal in groove on shaft closest to rotor. Lubricate with Klüber Asonic¹ HQ72-102 or equivalent.

6. Re-install anti-drive end housing:
 - a. Install new O-ring in bearing bore of anti-drive end housing. Lubricate with Klüber Asonic¹ HQ72-102 or equivalent.
 - b. Align scribe marks on shell and anti-drive end, then lower ADE housing in position.

CAUTION

There will be a slight resistance as spiral ring seal enters bearing bore. Do not force housing on shaft. Spiral ring seal can be damaged by too much pressure.

- c. Secure anti-drive end housing with new locknuts. Use a suitable adhesive such as Loctite² 222 on studs and nuts. Follow adhesive manufacturer's instructions. Torque screws to 5.1 Nm/45 lb. in.
7. Support drive end of shaft with ADE housing facing up. Install new double-wide bearing in position by pressing on inner race of bearing, using suitable tool (such as CEN part no. A10-102).

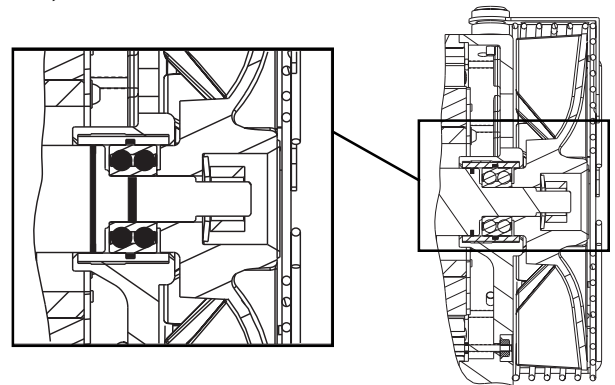


Figure 3 - C612 Assembly with **New-style Bearing**

8. Install fan and fan guard:
 - a. Install new fan on shaft. Fasten with fan washer and new fan nut. Torque nut to 67.8 Nm/50 lb. ft.
 - b. Install fan guard. Fasten with new grommets/grommet inserts and screws. Use a suitable adhesive such as Loctite² 222 on screws. Follow adhesive manufacturer's instructions. Torque screws to 1.1 Nm/10 lb. in.

¹ Loctite is a registered trademark of Loctite Corporation.

² Asonic is a registered trademark of Klüber Lubrication.