

12-16. Repair or Replacement - Windshield Wiper.

a. Converter Assembly. Repair or replace parts of the converter assembly as follows:

(1) Discard preformed packing (15, figure 12-3 and replace during reassembly.

(2) Make minor repairs as necessary to correct minor defects. Replace defective or worn parts during reassembly.

b. Electric Motor Assembly. Repair or replace parts of the electric motor assembly as follows (see figure 12-4 and table 12-4 for Inspection Limits):

(1) Resolder loose connections where necessary.

(2) Make minor repairs where practical, such as removing nicks and burrs, unless specific instructions are given. Replace all damaged, worn, or otherwise defective parts during reassembly.

12-17. Assembly - Windshield Wiper.

a. Converter Assembly. To assemble the converter assembly, refer to figure 12-3 and proceed as follows:

(1) Position converter nameplate (3) on worm and housing assembly (9); secure with four screws (4). Stake screws.

NOTE

- Apply sealing compound (C-242) to all mating surfaces of nameplate (3) and idler cover plate (6) during reassembly.
- Dow Corning 3145 RTV may be substituted for elastomeric sealing compound per MIL-S-7124 when assembling windshield wiper converter assembly.

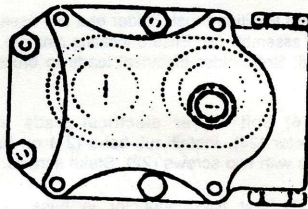
(2) Position idler coverplate (6) on housing and secure with three screws (5). Stake screws.

(3) Position washer (7) in bearing bore against idler cover plate (6).

(4) Install washers (1) and bearings (2) on linkage assembly (11).

(5) Apply grease (C122) to housing and linkage assembly.

(6) Install linkage assembly (11) in housing with the wiper shaft eccentric positioned to the side as shown in figure 12-5.



ASSEMBLE LINKAGE WITH WIPER SHAFT ECCENTRIC POSITIONED TO THE SIDE AS SHOWN

Figure 12-5. Positioning of Wiper Shaft

(7) If removed during disassembly, install sleeve (14) in cover plate (12). Stake sleeve (four places) to inside of cover plate.

(8) Install packing (15) and sleeve (16) on inside of sleeve (14). Stake sleeve (16) in place.

(9) Clean all mating surfaces of worm gear and housing assembly (9) and cover plate (12).

(10) Apply sealing compound (C242) to all mating surfaces of cover plate (12) and worm gear and housing assembly (9). Position cover plate on housing and secure with four screws (8) and nuts (13).

(11) Install bolt (18) and retaining ring (17) on linkage shaft.

(12) Test converter assembly in accordance with paragraph 12-19.

b. Electric Motor Assembly. To assemble the electric motor assembly, see figure 12-4 and proceed as follows:

NOTE

Refer to figure 12-6 for motor assembly schematic diagram.

(1) Position base (19, figure 12-4) on barrel assembly (1) and secure with two screws (20).

(2) Install thermoprotector (23). Soft solder electrical leads to thermoprotector.

(3) Position two brush holder assemblies (29) on brush holder ring (35) and secure with four screws (33).

(4) Position brush holder rings (35) on end bell assembly (32) and secure with two screws (36) and lockwashers (34).