

Maintenance Procedure

No. P211

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TASK DESCRIPTION RECORD HEP ALTERNATOR SERIAL NUMBER AND SERVICE HOURS. IF REQUIRED, GREASE ALTERNATOR BEARING.
BUILDER'S OR VENDOR'S MAINTENANCE INSTRUCTIONS
SPECIAL TOOLS REQUIRED: Exxon Polyrex EM or equivalent anti-friction, high quality grease with lubrication temperature range of -22° to 175° C
RELATED MAINTENANCE PROCEDURES MODIFICATIONS, POINTERS, ETC.
SAFETY PRECAUTIONS: CONTRACTOR TO ASSUME RESPONSIBILITY FOR SAFETY RULES AND COMPLIANCE.
PREPARATION: Start with HEP alternator running. If grease application is required, shut down unit and restart according to procedure.

PROCEDURE

1 Record Alternator Serial Number and Service Hours

- 1.1 Record the HEP alternator serial number on work order.
- 1.2 There is an alternator hour meter mounted on barrel of alternator. Take this reading and record it on the work order.
- 1.3 There is a service interval tag mounted on the barrel of alternator that shows three annual 500 – hours service intervals (see figure 1). If the service hours observed in step 1.2 are approaching or within the range of one of the annual 500 -hours service intervals, refer to steps 2.1 thru 2.9 to grease the HEP alternator bearing.

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SERIAL #	SERVICE INTERVAL
EMP.# _____	4000 - 4500 HRS
EMP.# _____	8500 - 9000 HRS
EMP.# _____	13000 - 13500 HRS
SCHEDULED CHANGE OUT 18000 - 19000 HRS	
GREASE TYPE _____	

Fig. 1 Service Interval Tag

Each annual grease application service interval has a range of 500-hours.

An employee number marked beside a service interval, indicates a completed grease application.

2 Grease Application

- 2.1 Shut down HEP engine and remove power to alternator.
- 2.2 Wipe clean the grease plug and surrounding area.
- 2.3 Remove filler and drain plugs.
- 2.4 Insert 6 millimeters (1/4 inch) N.P.T. grease fitting in fill pipe.
- 2.5 Free drain hole of any hard grease, using a piece of wire if necessary.
- 2.6 Using a low pressure grease gun add grease as described in either step 2.6.1 or 2.6.2:
 - 2.6.1 On an F59 alternator, the initial bearing grease application will be 40 grams of Exxon Polyrex EM or equivalent.

All following grease applications on an F59 alternator will only require 20 grams of grease.
 - 2.6.2 On an MP40 alternator, all bearing grease applications will be 35 to 70 grams of Exxon Polyrex EM or equivalent.

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- 2.7 Start unit with drain plug removed – the fill pipe may be open or closed. Allow unit to run at idle for 15 minutes to allow excess grease to drain.
- 2.8 Stop unit, wipe off any drained grease and replace filler and drain plugs.
- 2.9 Write employee number beside appropriate service interval on tag.

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