



Figure 14. Fan assemblies.

*b. Governor Shaft Bearing.* Lubricate the governor shaft bearing daily. To do so, remove the threaded plug in the top of the gear box, and add a few drops of engine oil No. 1C.

*c. Fan Assembly Bearing.* Fan assemblies equipped with oil cup should be lubricated daily with engine oil No. 50. Assemblies having no oil cup require no lubrication. The two fan assemblies are shown in figure 14.

*d. Magneto Coupling.* The magneto coupling should be lubricated each time the magneto is removed for overhaul. For this use general purpose grease, No. 2.

*e. Generator Ball Bearing.* The bearing housing should be lubricated every 1,004 hours of operation. Pack it with general purpose grease, No. 2.

**CAUTION:** Be sure not to get any grease on commutator or armature!

**15. ENGINE TROUBLE CHART.**

*a. Engine Will Not Start.*

Possible Cause	Check	Remedy
(1) Fuel tank empty.	Check fuel supply.	Add fuel.
(2) Fuel line clogged.	Check fuel strainer.	Clean or replace strainer screen if dirty. Remove and clean fuel line.
(3) Fuel not drawn freely from tank.	Check fuel tank filler cap vent. Check fuel line for air leaks.	Clean out vent. Tighten joints in fuel line.
(4) Improper or dirty fuel.	Check condition and grade of fuel.	Use fresh fuel.
(5) Carburetor clogged.	Check carburetor jet and float valve.	Clean or replace.
(6) Excessive choking.	Check for bent choke valve stem.	Replace defective parts.
(7) Defective fuel pump.	Try spare fuel pump.	Replace pump.
(8) Dirty or cracked spark plugs.	Check for spark at spark plug.	Clean plugs or replace.
(9) Improper spark gap.	Check with gauge.	Adjust points.
(10) Improper timing.	Check timing.	Correct timing.