

LUBRICATION

Intervals of Three Months or Less

AIR ENGINES -

(1) Lubricate all pneumatic cylinders with P.C. lubricant # 1 using one teaspoonful for each cylinder.

(2) This lubricant can best be applied by means of an oil gun as shown on page 54.

(3) The line breakers are lubricated by squirting oil thru the hole in the cylinder casting above the piston. The main and reverse cylinders by removing the pipe plug in cylinder head and squirting on the top wall of the cylinder. If pipe plugs are not provided, remove the cylinder heads and apply the lubricant with a swab.

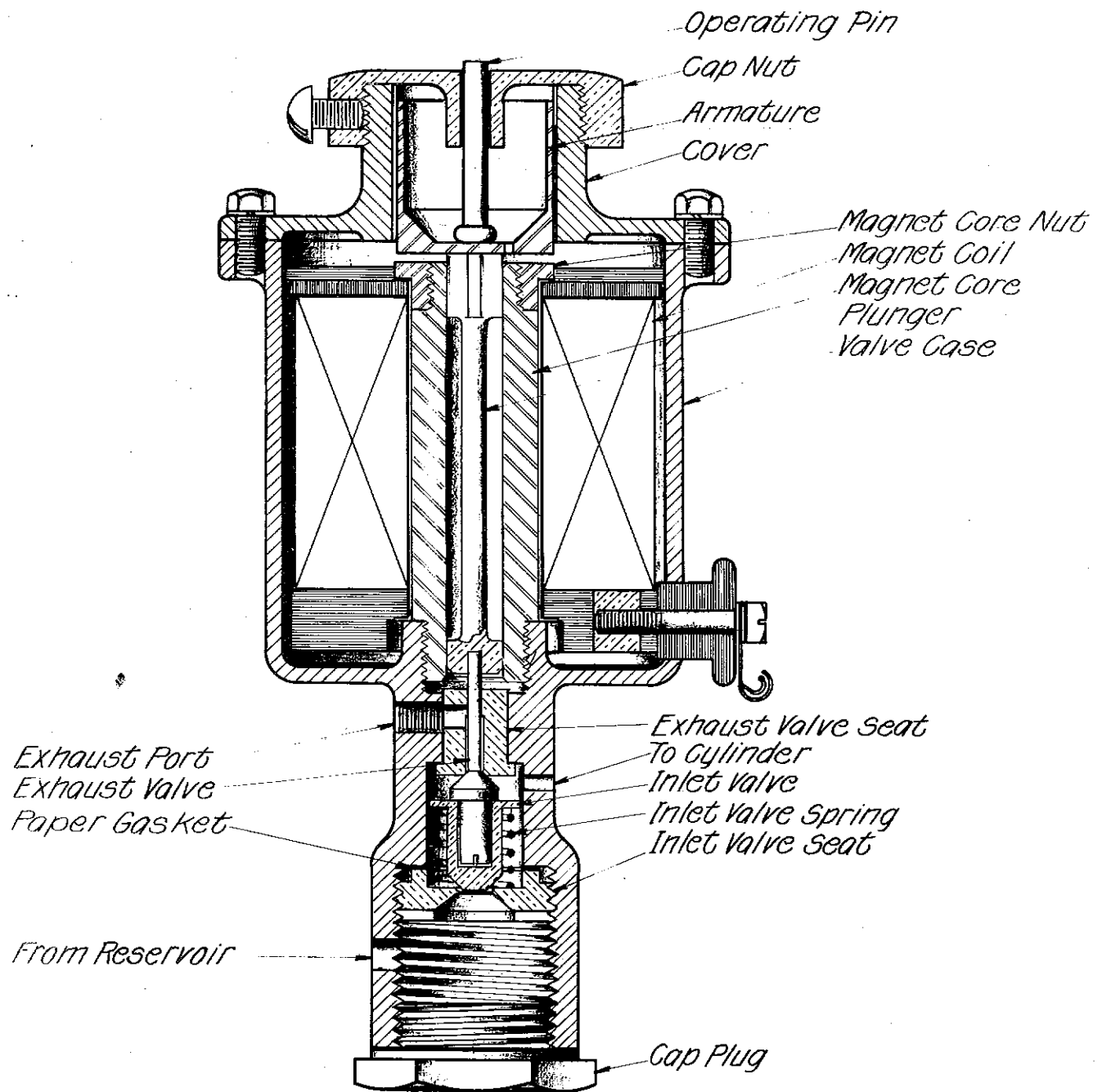
(4) Refer to page 29, put P.C. lubricant # 1 in holes A and B with controller in "off" position. Then turn controller to full "on" before putting it in hole C. The small controllers, (PC-5, PC-6 and PC-9) have hole A omitted.

BEARINGS -

(1) The roller bearings on the contactor units and star wheel pawls should be lubricated with a small amount of P.C. lubricant # 1, applied at each end, and the bearing rotated to cause the oil to enter between the end washer and the outside rollway.

(2) The hinge pin bearings of the line breaker and contactor units should be lubricated with a small amount of P.C. lubricant # 1.

(3) Lubricate the reverser main bearings and also the sliding bearing and pin between the piston and the crank, if the controller is of the PC-10-11-12 or 101 type, with a small amount of P.C. lubricant # 1.



MAGNET VALVE FOR "OFF" CYLINDER.

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Overhauling Period, or at least once a year.

AIR ENGINE -

(1) Dismantle the air operating cylinders sufficiently so that the cylinder walls and piston parts may be thoroughly cleaned. This should include for the large PC controllers, (PC-10, PC-11, PC-12 and PC-101) removing and cleaning the spring and piston head in the "off" end of the main air engine as indicated on pages 29, 30 and 31. When re-assembling, lubricate with P.C. lubricant # 2. The three leather washers constitute a single packing and even when soaking them in oil should never be separated.

(2) If the leather packing is soft and pliable rub it over with P.C. lubricant # 2. If the packing is dry and hard, soak it for several hours in P.C. lubricant # 1. Do not knead the leather to soften it as it distorts the packing with the possibility of leaking when reassembled.

(3) Apply to the clean cylinder walls with a swab or brush an even film of P.C. lubricant # 2. For cylinders 3-1/2" diameter use 1/5 ounce (heaping teaspoonful). For cylinders 1-3/4" and 2-1/4" diameter use 1/8 ounce (level teaspoonful).

BALL BEARINGS -

Remove bearing and bearing housing from the cam shaft and pry out the plate holding the bearing in the housing, Clean thoroughly, pack with P.C. lubricant # 2 and use new felt washers when reassembling.

SLEEVE AND SPHERICAL BEARINGS--(WICK OILED)

Clean the oil wells and bearings, wash the felt wick in gasoline rather than signal oil or kerosene. Fill with P.C. lubricant # 1.

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GREASE GUN.

APPROX. 5/12 SIZE INDEX 779 5 11 18

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