

REPAIR AND OVERHAUL INSTRUCTIONS**STROMBERG FLOAT TYPE CARBURETTORS****NA-Y9H-507 AND NA-Y9EI-507****IDLE CUT OFF VALVE**

1 Difficulty has been experienced with idle-cut-off valve on NA-Y9H-507 and NA-Y9EI-507 carburetors used on P&W R-1340-AN1 engines. This condition has been attributed to the presence of foreign matter, weakness of spring, and/or a bent plunger (poppet valve).

2 Sticking of the plunger in the idle-cut-off position will result in a lean mixture which will cause difficult starting and prevent continuous idling.

3 Sticking of the plunger in normal (closed) position will result in ineffective idle-cut-off operation.

4 At the 500 hour inspection the idle-cut-off valve will be checked for normal operation. This inspection will be included in EO 05-55A-7A at the next revision.

5 If the above difficulty is encountered, the idle-cut-off valve will be removed and cleaned as follows:-

(a) Move the mixture control lever to the full rich position. Cut the locking wire. Do not break it as one end is usually secured to the body of idle-cut-off assembly which is softer

than the locking wire, so that pulling on wire to break it will cause the wire to pull through the body causing a fracture to the body.

(b) Unscrew the hex-head plug. The gasket will come off with the plug. Remove the spring and push the plunger through from the opposite end.

6 Clean the plunger (poppet valve) and seat with cleaning fluid conforming to specification 3-GP-8. Ensure that the plunger is not bent and check for wear along the plunger shaft and at the seat. Check the spring for serviceability. Before assembly, polish the plunger with jeweller's rouge. Check for freedom of movement within the seat.

7 Re-assemble the idle-cut-off valve and use a new gasket when replacing the hex-head plug. When threading the plug into the casting use caution as the body assembly is aluminum casting.

8 List of Parts:-

37C/P-21847	Plug hex-head
37C/P-5319	Gasket
37C/P-21855	Spring
37C/P-21852	Plunger

ISSUED ON THE AUTHORITY OF THE CHIEF OF THE AIR STAFF