

**SUBJECT:** ALTERNATE AIR DOOR ASSEMBLY DUCT  
MODIFICATION, P/N 600378-503

**MODELS/  
SERIAL NUMBERS  
AFFECTED:** M20K - S/N 25-0265 thru 25-0420 and ALL aircraft  
that have had the alternate air duct  
assembly replaced since October, 1979.

**TIME OF  
COMPLIANCE:** Within the next 50 hours of operation or at next  
scheduled maintenance, whichever is sooner.

**INTRODUCTION:** It has been determined that some of the subject  
duct assys may have been assembled with soft rivets.

**INSTRUCTIONS:**

- 1) Remove cowling and inspect the duct P/N 600378-503, to determine if it is aluminum or fiberglass.
- 2) If fiberglass, inspect for proper attachment and reinstall cowling. Make Log Book entry to document that the inspection has been accomplished.
- 3) If the duct is made from aluminum, remove the duct assy from the induction system for modification by removing the three (3) bolts holding filter and housing to duct, door actuating cable assy and clamp from turbocharger tube connection.
- 4) Drill out the two bottom rivets, MS20470-A5, which attach the hinge fitting assy, P/N 600379-025, to the duct, P/N 600378-503. (Use AC 43.13-1C.64.C, Maintenance Procedures).
- 5) Use a hammer and rounded hardwood drift from the inside of the duct to flatten the area where the hinge fitting assy will lay when attached; (the duct housing now has a radius along this area). Carefully work this area adjacent to the outer extremities of the hinge fitting assy to raise it to the same height and plane as the center portion. Back up the housing as required while forming. Inspect for cracks before proceeding with modification.
- 6) When this area has been prepared to accept the hinge fitting assy without placing any of the rivets in stress, it will be ready for reassembly.
- 7) Reassemble the hinge fitting assy to the duct housing using MS20470-AD5 rivets of proper length.
- 8) Drill a third hole, #21 drill size, centered between the existing two holes to accept an additional MS20470-AD5 rivet.
- 9) Reinstall the duct assembly to the induction system and secure all fittings, filters, cables, clamps, etc.

Instructions cont'd...

- 10) Rig the alternate air door assy per the following:
  - a. The actuating lever arm should be in the latch detent of the door slot at the closed position.
  - b. Allow 1/8 inch cushion between the control cable knob and the panel in the cockpit when closed. Check operation for binding and complete seal when closed.
- 11) Replace cowling and secure all connections.
- 12) Enter Compliance Note in Engine Log Book.

**REFERENCE**

**DATA:** N/A

**PARTS LIST:** N/A

**FIGURES/TABLES:** See illustration.

