

ENSTROM TH-28/480 SERIES MAINTENANCE MANUAL

13-27. Upper Plenum/Air Inlet

13-28. Removal- Upper Plenum/Air Inlet

- A. Remove the transfer ducts (para. 13-23).
- B. Remove the air exit ducting the aft end of the upper plenum.

CAUTION

Use a backing wrench when loosening or tightening air/fluid lines and fittings to prevent damage to the lines or fittings.

- C. Disconnect the scavenge air line from the upper plenum.
- D. Disconnect the anti-collision beacon electrical connector if applicable.
- E. Remove the screws attaching the upper plenum to the aircraft.
- F. Remove the plenum by slightly lifting it and pulling aft.
- G. Place the upper plenum in a location that will prevent the plenum from being damaged.

13-29. Inspection - Upper Plenum/Air Inlet

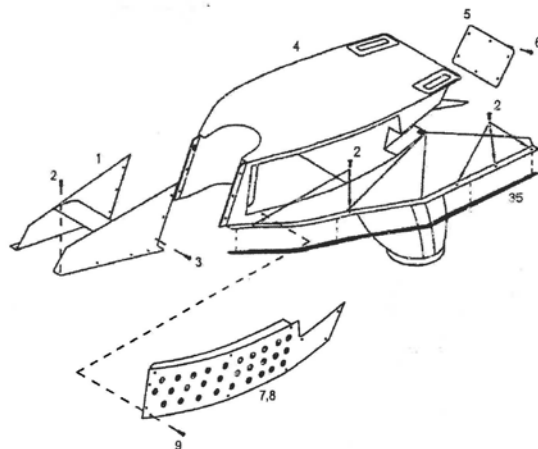
- A. Inspect the upper plenum for cracks, cleanliness, condition of the outlets, security and overall condition of the particle separators and the air lines in the upper plenum/air inlet.
- B. Inspect for indications of the drive belt rubbing on the upper plenum/air inlet assembly.

13-30. Repair- Upper Plenum/Air Inlet

- A. Repair damage to the upper plenum/air inlet 1/A/W AC 43.13-1B. Replace the upper plenum/air inlet if not repairable.

- (1) Install new hand-holds in plenum/air inlet in accordance with the following procedure:

- a. Remove plenum/air inlet assembly (4) from helicopter.
- b. Remove aft access plate (5) and swirl tube assemblies (7 & 8).



- c. Use a suitable grinder to grind off the horizontal flange of the hand hold assembly.



- d. The adhesive used to attach the hand hold to the plenum assembly is blue or green so it can be easily determined when the grinding operation is nearly completed.
- e. When the horizontal flange has been ground off, the hand hold can be removed from the plenum/air inlet assembly.
- f. Bond the new hand hold into the plenum/air inlet using Hysol 9359.3 adhesive or an equivalent locally available 2 part epoxy adhesive.
- g. Repair the paint on the plenum/air inlet assembly as necessary.
- h. Install the aft access plate (5) and the swirl tube assemblies (7 & 8).
- i. Install the plenum/air inlet assembly on the helicopter in accordance with paragraph 13-31.

B. Shim the upper plenum/air inlet assembly to obtain the minimum drive belt clearance using the following procedure:

- (1) Remove the upper plenum/air inlet assembly.
- (2) Remove the foam tape from the assembly mounting flanges and clean the mounting flanges.
- (3) Position a shim, P/N 4120505-11 (.063"/1.6 mm) or 4120525-13 (.125"/3.2 mm), on each mounting flange and trim to fit as required. Determine shim thickness from previous clearance check.
- (4) Bond the shims to the mounting flanges using WELD-ON® 45™ or Loctite® H3300™ or equivalent.