

SERVICE INSTRUCTION: M20-77

DATE: 3-6-86

SUBJECT:

MOONEY M20J POWERPLANT BAFFLE MODIFICATION

**MODELS/
S/N AFFECTED:**

M20J, S/N 24-0001 thru 24-1585

**TIME OF
COMPLIANCE:**

At next annual or 100 hour inspection or earlier.

INTRODUCTION:

Reports of contact between engine lower cooling baffle and the rocker box drain line for no. 2 cylinder have been received. Most aircraft have sufficient clearance; however, to ensure positive clearance during all flight operations the lower flange of the 600369-005 baffle (part of the 600369-001 assy) should be inspected and modified, if applicable, per the instructions of this S.I.

INSTRUCTIONS:

- 1) Remove top and bottom cowling per Service & Maintenance Manual.
- 2) Temporarily relocate the left hand front heater ram air duct to gain access to baffle (ref. Fig. No. S.I. M20 77 1).
- 3) Temporarily remove the #2 cylinder rocker box drain line from rocker box fitting and from case (rubber hose and clamps). Before removal note where drain line passes under baffle flange and mark baffle so location of needed clearance is identified after drain line is removed.
- 4) Plug holes in case and rocker box fitting to keep contamination out of engine.
- 5) Use rotary file on drill motor flexible shaft and radius out baffle so it will have positive clearance between drain line. Ref. Fig. SI M20-77-2.

CAUTION: Edge distance from center of hole in baffle should be .21 in. or greater.

- 6) Reinstall drain line and check clearance between it and baffle. If clearance assured, complete reinstallation of drain line and heater duct.

NOTE: Alternate method of assuring positive clearance between drain line and baffle is to remove .001 baffle assy from engine and trim .10 inch from flange of .005 baffle. This will reduce the flange edge distance (from center of hole) from .31 inch to .21 inch and should provide clearance between baffle and drain line. Reinstall baffle assy and check clearance. Ref. Figure No. SI M20-77-3.

REFERENCE DATA:

NA

PARTS LIST:

NA

FIGURES/TABLES:

See the following figures:

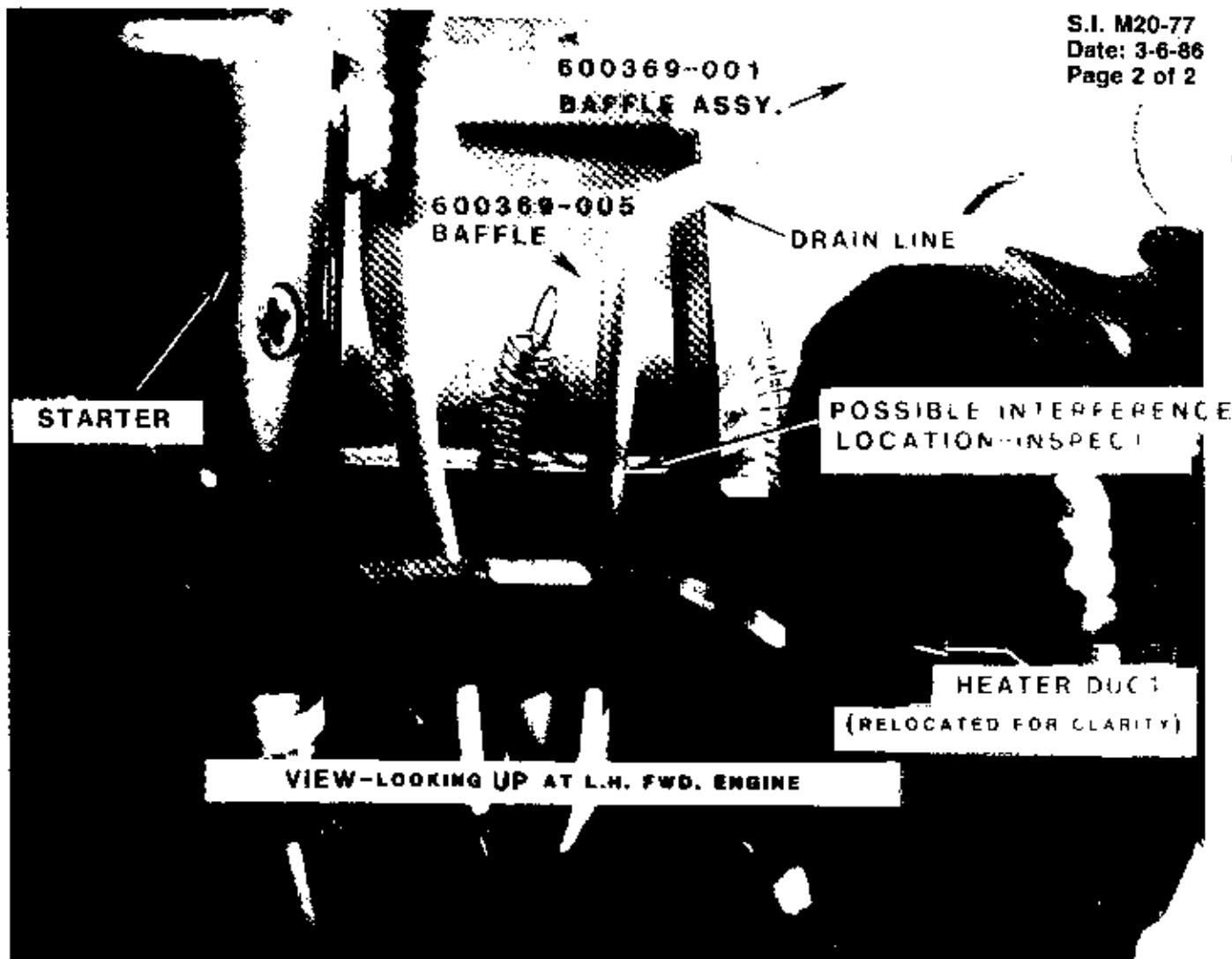


FIGURE SI M20-77-1

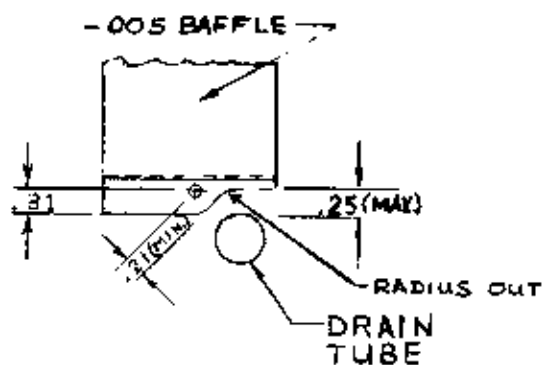


FIGURE SI M20-77-2

FIGURE SI M20-77-3
(ALTERNATE METHOD)

