This Service Letter reidentified a Service Bulletin M 30-110 per Service Instruction M20-15.

SUBJECT:

Rerouting of Oil Lines to the Oil Cooler

MODELS AFFECTED:

M20C, Serials 1852, 1940-2475 M20D, Serials 1, 101-170

TIME OF COMPLIANCE: Recommended as soon as practical and not later than next 100 hours. If not complied with immediately, inspect oil cooler flanges each 25 hours until compliance with this service letter.

#### INTRODUCTION

The oil lines must be rerouted in order to reduce the vibration upon the oil cooler flanges.

#### INSTRUCTIONS

- 1. Remove the top and side cowling.
- Remove the left top baffle exposing the top side of the cylinder.
- 3. Remove both oil lines from the oil cooler.
- 4. Remove both oil lines from the engine.
- 5. Remove all clamps and hardware from the oil lines (and push the grommets in the front baffle upward through the baffle; push the grommets in the rear baffle forward through the baffle.)
- Pull the oil lines forward and out of the baffles through the front cowling air intake.
- 7. Remove the oil cooler from the aircraft.
- 8. Remove both 45° fittings from the oil cooler.
- Install the two 90° fittings in the oil cooler as per Figure 1.
- 10. Remove the air deflector from the oil cooler.
- 11. Install and route both oil lines per Figures 1, 2, and 3.
- 12. Slide the oil cooler into position with the fittings toward the center line of the engine.
- 13. Secure the oil lines to the fittings with the long line going to the top fitting while the cooler is loose.
- 14. Secure the oil cooler with the top mounting holes in each flange.
- 15. Drill .193/.200 dia, hole (2) in the oil cooler flanges to match the hole in the mounting brackets and the support plates.

- 16. Install the two remaining bolts.
- 17. Re-install the air deflector with the two long bushings to the outboard side.
- 18. Clamp the lines as per Figures 2 and 3.
- 19. Patch the holes in the cowling baffles with .032 2024-T3 clad aluminum patches.
- 20. Re-install the top left baffle.
- 21. Install the cowlings.

## COMPLIANCE

After this service letter has been complied with, please return the enclosed compliance card to Mooney Aircraft for our records.

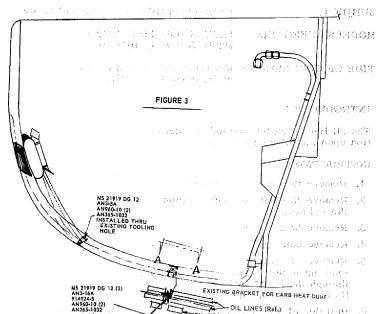
### S.L. KIT 20-110

This kit is available from Mooney Aircraft, Inc., Spare Parts Department, Kerrville, Texas, at no cost.

# **PARTS LIST**

Part No.	No. Required
AN3-5A Bolt	3
AN3-12A Bolt	1
AN3-16A Bolt	1
AN960-10 Washer	8
AN970-3 Washer	5
AN365-1032 Nut	5
MS21919DG-12 Clamp	7
AN822-8D 90° Elbow	2
914024-3	1
914024-5	1
8" length of 1% ID clear	
vinyl tubing	1

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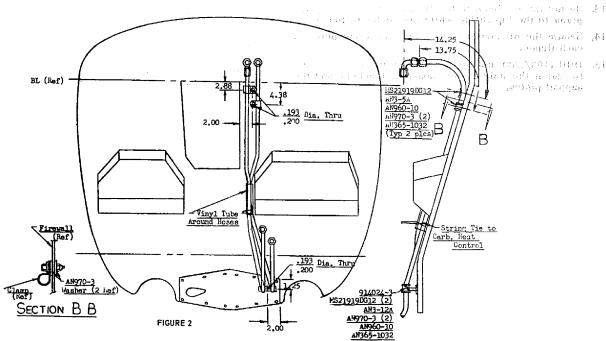


FIGURE 1

OIL COOLER (Ref.)

AN 822-8D 90° FITTING (2)