
Service Bulletin

May 3, 2004

MEB04-1

TITLE

CABIN HEATER FUEL LINE INSPECTION/REPLACEMENT

EFFECTIVITY

| <u>Model</u> | <u>Year</u> | <u>Serial Numbers</u> |
|--------------|-------------|------------------------|
| 401/401A | | 655 |
| 401 | 1967/68 | 401-0001 thru 401-0322 |
| 401A | 1969 | 401A0001 thru 401A0132 |
| 401B | 1970/71 | 401B0001 thru 401B0121 |
| 401B | 1972 | 401B0122 thru 401B0221 |
| 402 | 1967/68 | 402-0001 thru 402-0322 |
| 402A | 1969 | 402A0001 thru 402A0129 |
| 402B | 1970/1971 | 402B0001 thru 402B0122 |
| 402B | 1972 | 402B0201 thru 402B0249 |
| 402B | 1973 | 402B0301 thru 402B0455 |
| 402B | 1974 | 402B0501 thru 402B0640 |
| 402B | 1975 | 402B0801 thru 402B0935 |
| 402B | 1976 | 402B1001 thru 402B1100 |
| 402B | 1977 | 402B1201 thru 402B1250 |
| 402B | 1978 | 402B1301 thru 402B1384 |
| 402C | 1979 | 402C0001 thru 402C0125 |
| 402C | | 689 |
| 402C | 1980 | 402C0201 thru 402C0355 |
| 402C | 1981 | 402C0401 thru 402C0528 |
| 402C | 1982 | 402C0601 thru 402C0653 |
| 402C | 1984 | 402C0801 thru 402C0807 |
| 402C | 1985 | 402C0808 thru 402C1020 |
| 404 | | 682 |
| 404 | 1977 | 404-0001 thru 404-0136 |
| 404 | 1978 | 404-0201 thru 404-0246 |
| 404 | 1979 | 404-0401 thru 404-0460 |

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To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

| | | |
|------|-----------|------------------------|
| 404 | 1980 | 404-0601 thru 404-0695 |
| 404 | 1981 | 404-0801 thru 404-0859 |
| 414 | | 667 |
| 414 | 1970 | 414-0001 thru 414-0099 |
| 414 | 1971 | 414-0151 thru 414-0175 |
| 414 | 1972 | 414-0251 thru 414-0280 |
| 414 | 1973 | 414-0351 thru 414-0437 |
| 414 | 1974 | 414-0451 thru 414-0550 |
| 414 | 1975 | 414-0601 thru 414-0655 |
| 414 | 1976 | 414-0801 thru 414-0855 |
| 414 | 1977 | 414-0901 thru 414-0965 |
| 414A | 1978 | 414A0001 thru 414A0121 |
| 414A | 1979 | 414A0201 thru 414A0340 |
| 414A | 1980 | 414A0401 thru 414A0535 |
| 414A | 1981 | 414A0601 thru 414A0680 |
| 414A | 1982 | 414A0801 thru 414A0858 |
| 414A | 1984 | 414A1001 thru 414A1006 |
| 414A | 1985 | 414A1007 thru 414A1212 |
| 421 | | 693 |
| 421 | 1967/1968 | 421-0001 thru 421-0200 |
| 421A | 1969 | 421A0001 thru 421A0158 |
| 421B | 1970 | 421B0001 thru 421B0056 |
| 421B | 1971 | 421B0101 thru 421B0147 |
| 421B | 1972 | 421B0201 thru 421B0275 |
| 421B | 1973 | 421B0301 thru 421B0486 |
| 421B | 1974 | 421B0501 thru 421B0665 |
| 421B | 1975 | 421B0801 thru 421B0970 |
| 421C | 1976 | 421C0001 thru 421C0171 |
| 421C | 1977 | 421C0201 thru 421C0350 |
| 421C | 1978 | 421C0401 thru 421C0525 |
| 421C | 1979 | 421C0601 thru 421C0715 |
| 421C | 1980 | 421C0801 thru 421C0910 |
| 421C | 1981 | 421C1001 thru 421C1115 |
| 421C | 1982 | 421C1201 thru 421C1257 |
| 421C | 1984 | 421C1401 thru 421C1413 |
| 421C | 1985 | 421C1801 thru 421C1807 |

PURPOSE

To do an inspection of the cabin heater fuel lines for corrosion and leaks. Corroded or leaking fuel lines shall be replaced. Non-compliance with this Service Bulletin could allow a corroded or leaking cabin heater fuel line to go undetected which could potentially result in a fire.

COMPLIANCE

Mandatory; shall be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

MAN-HOURS

Not determined

MATERIAL

The parts listed below are available from Cessna Parts Distribution through an appropriate Cessna Service Station for the suggested list price shown.

| <u>Part Number</u> | <u>Description</u> | <u>Qty/Airplane</u> | <u>Price</u> |
|--|-----------------------------|---------------------|-------------------|
| AN818-4K | Nut | (as required) | \$ 4.03 (PS) ea. |
| MS20819-4K | Sleeve | (as required) | \$ 2.19 (PS) ea. |
| CMNP021CLASSB1/2 (Alternate U470499) | Sealant (2.5 oz. Semkit) | (as required) | \$ 32.80 (VR) ea. |

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ACCOMPLISHMENT INSTRUCTIONS

Change In Weight And Balance

Negligible

Material Information

Refer to the Illustrated Parts Catalog for cabin heater fuel supply line part numbers. If a cabin heater fuel supply line part number is not available, fabricate line with a MIL-T-8808 0.250 x 0.035 (Number 4) stainless steel tube and the parts listed below.

| New P/N | Quantity | Description | Old P/N | Disposition |
|----------------|-----------------|--------------------|----------------|--------------------|
| AN818-4K | (as required) | Nut | | |
| MS20819-4K | (as required) | Sleeve | | |

In addition to the parts listed above, the following material or equivalent will be necessary.

| NAME | NUMBER | MANUFACTURER | USE |
|---------------------------|-------------------------------------|---|--|
| Sealant (Semkit, 2.5 oz.) | CMNP021CLASSB1/2 | Cessna Aircraft Company Cessna Parts Distribution 5800 East Pawnee PO Box 1521 Wichita, KS 67218 USA | To prepare fitting threads for corrosion resistance. |
| Stainless Steel Tube | MIL-T-8808 0.250 x 0.035 (Number 4) | Commercially available | To fabricate replacement fuel lines. |

Inspection/Repair Instructions

1. Prepare the airplane for maintenance.
 - A. Make sure that all switches are in the OFF/NORM position.
 - B. Disconnect electrical power from the airplane.
 - (1) Disconnect the airplane battery.
 - (2) Disconnect external electrical power.
 - C. Attach maintenance warning tags to the battery and external power receptacle that have "**DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS**" written on them.

WARNING: OBEY ALL FUEL, SAFETY AND MAINTENANCE PRECAUTIONS.

2. Remove the copilot seat, carpet, cockpit interior, access panels and nose baggage interior as necessary to get access to the cabin heater fuel supply lines. (Refer to applicable sections of the Service/Maintenance Manual.)
3. (Refer to Figure 1, Detail A and Detail B.) Do a visual inspection of the cabin heater fuel supply lines for corrosion and/or leaks.

NOTE: A typical cabin heater and fuel system installation is shown. Refer to applicable sections of the Service/Maintenance Manual and Illustrated Parts Catalog for model-specific installations.

- A. If there is not any corrosion and/or leaks, complete Steps 6 and 8 through 10.
 - B. If there is any corrosion and/or leaks, go to Step 4.
4. Replace the cabin heater fuel supply line.
 - A. Remove and discard each corroded or leaking line assembly.
 - B. (Refer to Figure 1, Detail A and Detail B.) Install a new fuel supply line. (Refer to applicable sections of the Service/Maintenance Manual and Illustrated Parts Catalog.)
 - (1) If a new fuel supply line is not available, get a MIL-T-8808 Number 4 0.25 x 0.35 stainless steel tube and fabricate a fuel supply line so that it is the same as the removed fuel supply line. Use two each AN818-4K Nuts and MS20819-4K Sleeves. The minimum bend radius is 0.88 inch.
 - (a) Coat the threads of the existing fittings with CMNP021CLASSB1/2 Sealant or equivalent to assist in preventing dissimilar metal corrosion.
 - (b) It may be necessary to reform the tube to install it in the airplane.

5. Do a leak check of the fuel supply line and fittings. (Refer to applicable sections of the Service/Maintenance Manual.)
 - A. If necessary, tighten any connections and take appropriate action to make sure no leaks are present.
6. Reconnect the airplane battery.
7. Do an operational check of the cabin heater. (Refer to applicable sections of the Pilot's Operating Handbook.)
8. Remove maintenance warning tags from the battery and external power receptacle.
9. Reinstall the nose baggage interior, access panels, cockpit interior, and carpet. (Refer to applicable sections of the Service/Maintenance Manual.)
10. Make an entry in the airplane logbook stating compliance and method of compliance with this Service Bulletin.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for continued airworthiness, and must be accomplished for ongoing Airworthiness Compliance as required per 14 CFR Part 43.13.

NOTE: DO A VISUAL INSPECTION OF THE FUEL SUPPLY LINE FOR CORROSION AND/OR LEAKS. REPLACE THE LINE AS NECESSARY. REFER TO APPLICABLE SECTIONS OF THE SERVICE/MAINTENANCE MANUAL AND ILLUSTRATED PARTS CATALOG.

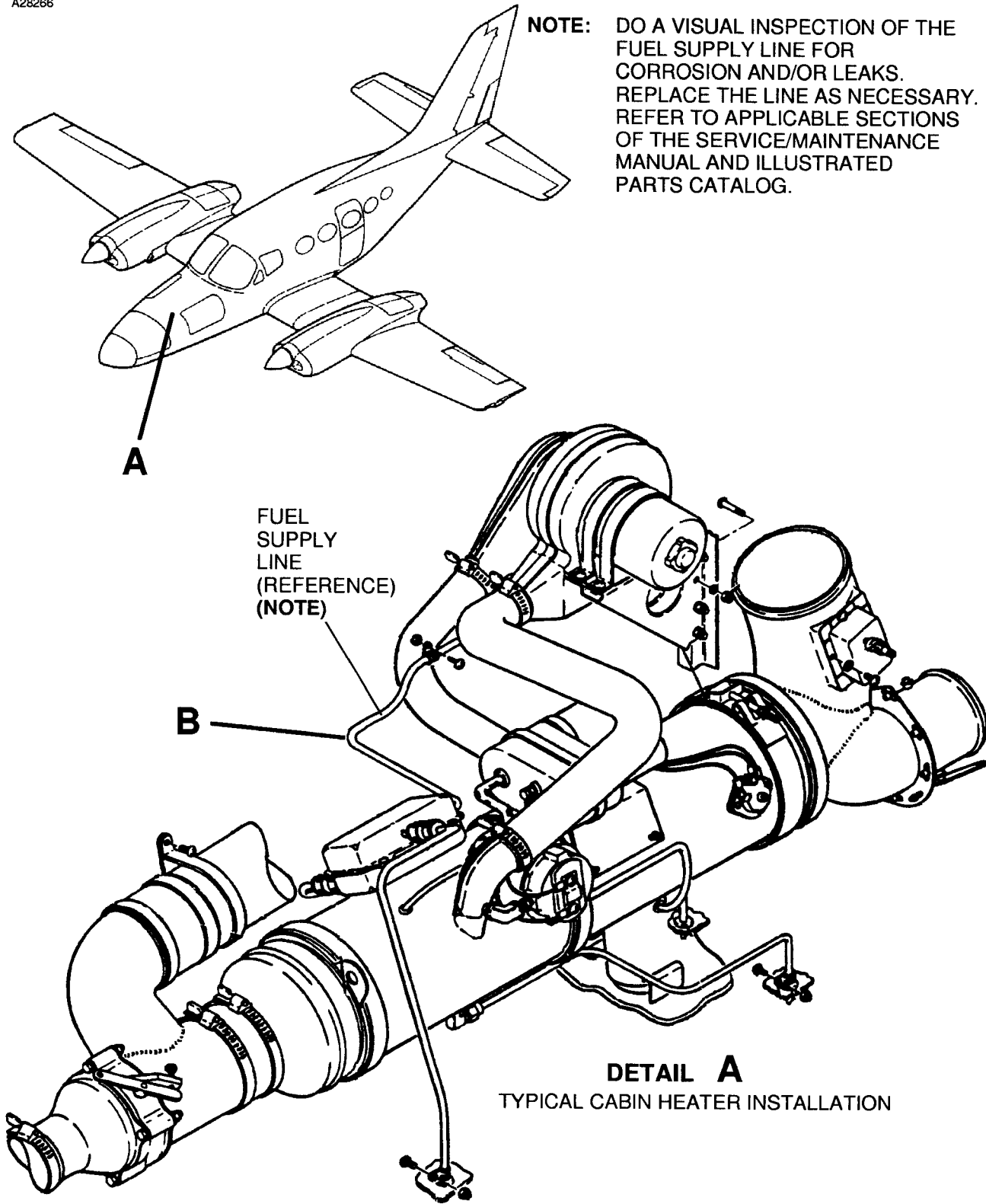


Figure 1. Cabin Heater Fuel Line Inspection (Sheet 1)

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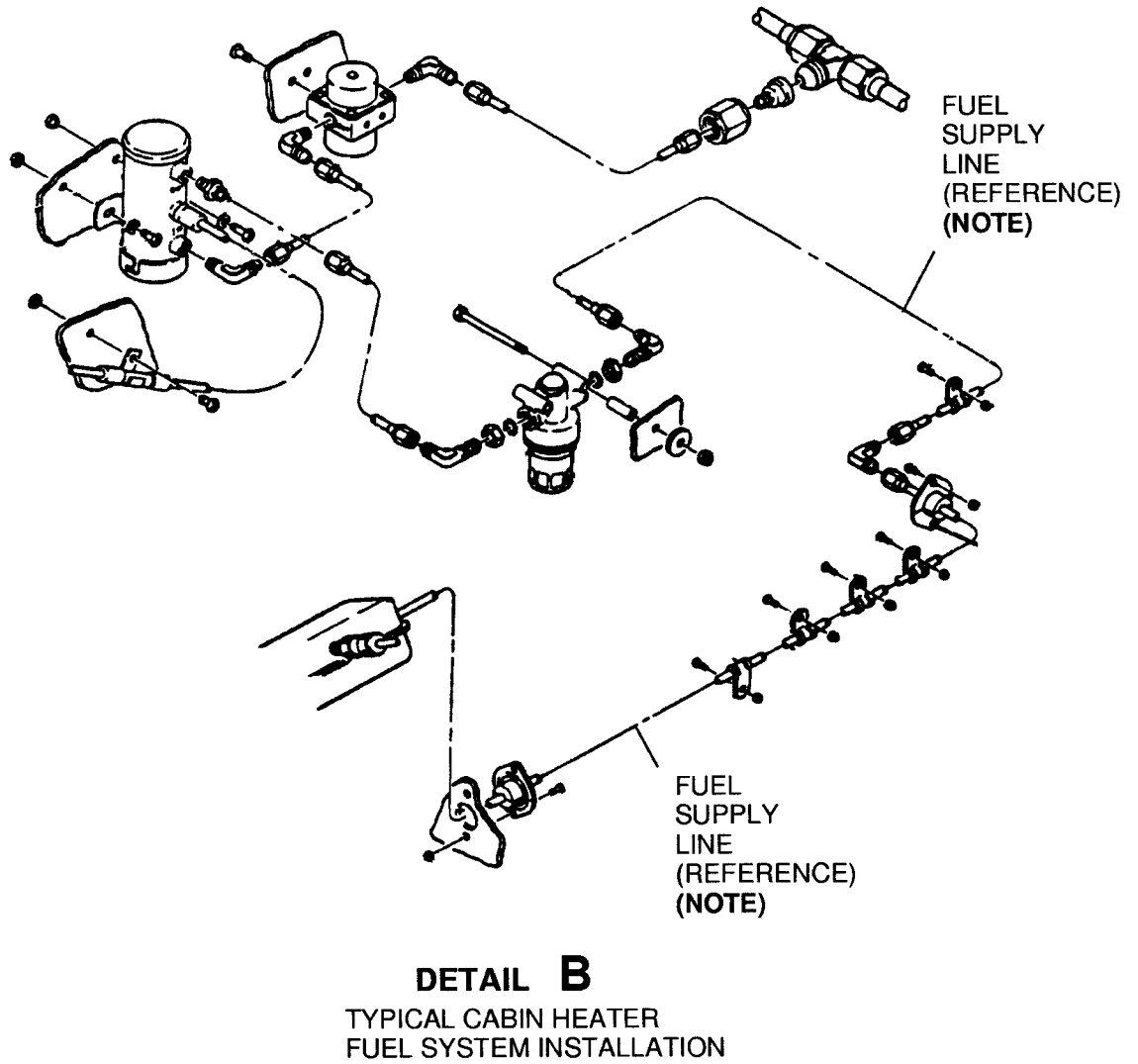


Figure 1. Cabin Heater Fuel Line Inspection (Sheet 2)

CREDIT

Not applicable

OWNER NOTIFICATION

On May 3, 2004 the following Owner Advisory message will be sent to applicable owners of record in MEB04-1A.

Dear Cessna Owner:

This Owner Advisory is to inform you that Service Bulletin MEB04-1 has been issued and requires an inspection of the cabin heater fuel lines for corrosion and leaks. Corroded or leaking fuel lines shall be replaced. Non-compliance with MEB04-1 could allow a corroded or leaking cabin heater fuel line to go undetected which could potentially result in a fire.

Compliance is mandatory; shall be accomplished within the next 100 hours of operation or 12 months, whichever occurs first.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual or Instructions for continued airworthiness, and must be accomplished for ongoing airworthiness compliance as required per 14 CFR Part 43.13.

Please contact a Cessna Multi-engine Service Station for detailed information and arrange to have Cessna Service Bulletin MEB04-1 accomplished on your airplane.

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