



CLASS I

SERVICE INSTRUCTIONS

77

No. 1142
ATA Code 78-00
Recurring Inspection

SUBJECT: EXHAUST - INSPECTION AND/OR REPLACEMENT OF THE MUFFLER ASSEMBLY AND INSTALLATION OF A CARBON MONOXIDE DETECTOR AND DECAL

EFFECTIVITY: PART I
BEECHCRAFT Skipper 77, serials WA-1 through WA-116.

PART II
BEECHCRAFT Skipper 77, serials WA-1 and after.

PART III
BEECHCRAFT Skipper 77, serials WA-1 through WA-118, WA-123 and WA-124.

REASON: PART I
To inspect the muffler assembly for cracks and install a modified muffler assembly and a carbon monoxide detector.

PART II
To inspect the muffler assembly for cracks each 100 service hours.

PART III
To install a decal on the instrument panel next to the carbon monoxide detector.

COMPLIANCE: Beech Aircraft Corporation considers this to be a mandatory inspection/modification and it should be accomplished as follows:

PART I
The muffler assembly should be inspected for cracks and a carbon monoxide detector installed on the instrument panel before the next flight of the airplane, unless previously accomplished per BEECHCRAFT Safety Communique No. 77-53.

DJ-86, DJ-89
880 I

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Beech Aircraft Corporation issues service information for the benefit of owners and fixed base operators in the form of three classes of Service Instructions. CLASS I (Red Border) are changes, inspections, and modifications that could affect safety. The factory considers compliance mandatory. CLASS II (Green Border) covers changes, modifications, improvements or inspections the factory feels will benefit the owner and although highly recommended, they are not considered mandatory compliance, unless specified at the time of issuance. Class I and II are mailed to:

- (a) BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers.
- (b) Owners of record on the FAA Registration list and the

BEECHCRAFT International Owner Notification Service List
(c) Those having a publications subscription.

CLASS III (No Border) covers changes which are optional, maintenance aids, product improvement kits and miscellaneous service information. Compliance is at the owner or operator's prerogative. Copies of Class III are distributed per a and c above. Information on Owner Notification Service or Subscriptions can be obtained through any BEECHCRAFT Aero or Aviation Center, International Distributor and Dealer, or the Factory. As Service Instructions are issued, temporary notation in the index should be made until the index is revised. Warranty will be allowed only when specifically defined in the Service Instructions and in accordance with Beech Warranty Policy.

CLASS I

98-34239D



Member of GAMA
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NOTE

PART I of these Service Instructions supersede and cancel BEEHCRAFT Safety Communique No. 77-53.

PART II

The original or modified P/N 108-389000-1 muffler assembly should be inspected for cracks every 100 service hours.

PART III

As soon as possible after receipt of these Service Instructions, but no later than the next 25 service hours.

APPROVAL:

FAA Approved - DOA CE-2.

MANPOWER:

The following information is for planning purposes only:

Estimated man-hours to install carbon monoxide detector: .5 hour.
Estimated man-hours to remove and reinstall the muffler assembly: 2.5 hours.
Estimated man-hours to inspect the muffler assembly: 1.5 hour.
Estimated man-hours to install decal: .5 hour.
Suggested number of men: 1 man.

MATERIAL:

The following parts required for this modification may be ordered through BEEHCRAFT Aero or Aviation Centers and International Distributors and Dealers:

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
PART I		
*276324	Carbon Monoxide Detector	1
PART III		
108-320024-1	Decal	1

*P/N of Van Dusen Aircraft Supplies, Division of Van Dusen Air, Inc., P.O. Box 10133 Lambert Field, St. Louis, MO 63145. May be obtained from local sources.

NOTE

An exchange program has been established for PART I airplanes which are equipped with original unmodified P/N 108-389000-1 mufflers in which no cracks were found. Each individual owner of record will be contacted by telephone or telex advising when modified mufflers are available. Those owners who agree to immediate action will be expected to remove the original unmodified P/N 108-389000-1 muffler and immediately send it, by the fastest method, to the attention of J.L. Wagner, Commercial Service Department, Beech Aircraft Corporation, Wichita, Kansas 67201. Upon receipt of the returned muffler, a modified P/N 108-389000-1 muffler will be returned to the owner by the same method. The original unmodified P/N 108-389000-1 mufflers will be modified by Beech Aircraft Corporation and added to the exchange stock. Because the P/N 108-389000-1 mufflers are being modified and will be eventually returned to service, all stock orders for P/N 108-389000-3 mufflers as specified in BEEHCRAFT Safety Communique No. 77-53 have been cancelled.

WARRANTY:

PART I

Warranty credit to the extent noted under MATERIAL and MANPOWER will be allowed on all claims submitted prior to November 30, 1980 as follows:

If no cracks are found in the muffler, warranty credit will be allowed for removal, inspection and reinstallation of the muffler.

If cracks are found in the muffler, warranty credit will be allowed for removal, inspection, one-way shipment to Beech Aircraft Corporation and reinstallation of the muffler.

When the modified mufflers become available, warranty credit will be allowed only for removal, one-way shipment to Beech Aircraft Corporation and reinstallation of the muffler.

NOTE

Warranty credit will be allowed for the initial inspection only. No warranty credit will be allowed for any subsequent inspections or the 100 hour recurring inspection. No warranty credit will be allowed for any unmodified P/N 108-389000-1 mufflers after November 30, 1980.

Warranty credit will be allowed for only one carbon monoxide detector.

PART II

None.

PART III

Warranty credit for parts and labor to the extent noted under MATERIAL and MANPOWER will be allowed on all claims submitted prior to November 30, 1980.

PART I, II and III

All warranty reimbursements are handled through franchised BEEHCRAFT Aero or Aviation Centers and International Distributors and Dealers. Owners and Operators should arrange with these outlets to perform the work and have them submit the standard Beech Aircraft Corporation warranty claim form through BEEHCRAFT Parts and Equipment Wholesalers or International Distributors.

SPECIAL TOOLS:

None.

WEIGHT AND BALANCE:

None.

REFERENCES:

BEEHCRAFT Skipper 77 Maintenance Manual, P/N 108-590000-7 or subsequent, Chapters 12-10, 21-40 and 71-10;
BEEHCRAFT Safety Communique No. 77-53 or subsequent, ENVIRONMENTAL SYSTEM - CABIN HEAT - DETECTION OF CARBON MONOXIDE;
FAA Advisory Circular 43.13-1A, Acceptable Methods, Techniques and Practices - Aircraft Inspection and Repair, Chapter 7.

PUBLICATIONS AFFECTED:

It is recommended that a note to "See Service Instructions No. 1142" be made in the BEEHCRAFT Skipper 77 Parts Catalog P/N 108-590000-9 or subsequent, Chapters 11-30 and 25-10.

**ACCOMPLISHMENT
INSTRUCTIONS:**

These Service Instructions may be accomplished as follows:

PART I

1. Check the airplane maintenance records and determine if BEEHCRAFT Safety Communique No. 77-53 has been complied with. If the Safety Communique has been complied with, proceed with step 10. If the Safety Communique has not been complied with, proceed with step 2.
2. Refer to the Maintenance Manual and remove the engine cowling.
3. Remove the muffler assembly from the engine.
4. Remove the heater shroud from the muffler.
5. Refer to FAA Advisory Circular 43.13-1A and dye penetrant inspect the muffler for cracks along the edges of the welds.
6. If cracks are detected, contact the Sales and Service Department, Beech Aircraft Corporation, Liberal, Kansas, Phone (316) 624-1613 or TWX No. 910-740-1501.
7. If no cracks are detected, install the heater shroud on the muffler and install the muffler assembly on the engine.
8. Refer to the Maintenance Manual and reinstall the engine cowling.
9. Install a P/N 276324 FAA approved carbon monoxide detector on the instrument panel in clear view of the pilot. The carbon monoxide detector should be monitored during each flight and noted for discoloration. If carbon monoxide is detected in flight, close the cabin heat vent and open the cabin fresh air vents. Land the airplane as soon as practical. Do not smoke, smoking will cause an increase in the amount of carbon monoxide taken into the lungs.
10. If carbon monoxide is detected in the cockpit, contact the Sales and Service Department, Beech Aircraft Corporation, Liberal, Kansas, as specified in step 6.
11. Replace the P/N 276324 carbon monoxide detector every 30 days as specified in the instructions which are included with the detector.
12. When a modified P/N 108-389000-1 muffler becomes available as specified in the MATERIAL section of these Service Instructions, remove the unmodified P/N 108-389000-1 muffler as described in steps 2 through 4.
13. Install the modified P/N 108-389000-1 muffler on the engine as described in steps 7 and 8.

NOTE

The unmodified P/N 108-389000-1 muffler must be returned to Beech Aircraft Corporation as specified in the MATERIAL section of these Service Instructions.

PART II

1. The muffler should be inspected for cracks as described in the Maintenance Manual, Chapters 12-10 and 21-40 after each 100 service hours.
2. If cracks are detected, contact the Sales and Service Department, Beech Aircraft Corporation, Liberal, Kansas, as specified in step 6 of PART I of these Service Instructions.

PART III

Install a P/N 108-320024-1 decal on the instrument panel adjacent to the carbon monoxide detector.

RECORD COMPLIANCE: Upon completion of these Service Instructions, make an appropriate maintenance record entry.