

# CLASS 11

19, 23

No. 0667-241, Rev. I ATA Code 73-00

SUBJECT: POWER PLANT - REPLACEMENT OF THE CARBURETOR AND MODIFICATION OF

THE CARBURETOR AIR BOX

SYNOPSIS OF CHANGE: Service Instructions rewritten to current format and EFFECTIVITY extended to include M-

1095 through M-1361.

EFFECTIVITY: PART I

BEECHCRAFT B23 and C23, serials M-1095 through M-1361;

C23 Sundowner 180, serials M-1362 through M-1451, M-1455, M-1459, M-1460, M-1462,

M-1463, M-1465 through M-1491 and M-1523 through M-1541.

PART II

BEECHCRAFT B19, serials MB-481 through MB-520;

B19 Sport 150, serials MB-521 through MB-539 and MB-541 through MB-676.

REASON: To provide an improved carburetor installation.

COMPLIANCE: When replacement of the carburetor is necessary.

**DESCRIPTION:** PART I

The existing carburetor is to be replaced with a carburetor having a rotary mixture control.

PART II

The existing carburetor is to be replaced with a carburetor with a pepper box nozzle. The

carburetor air box is to be modified on the initial carburetor replacement.

APPROVAL: FAA Approved - DOA CE-2.

MANPOWER: The following information is for planning purposes only:

> Estimated man-hours: 4 hours. Suggested number of men: 1 man.

MATERIAL: The following parts required for this modification, except the carburetors, may be ordered

through BEECHCRAFT Aero or Aviation Centers and International Distributors and

Dealers. The carburetors may be ordered through Lycoming Dealers and Distributors.

AW-858, AW-872, AW-873, AW-939

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Beech Aircraft Corporation issues service information for the benefit of owners BEECHCRAFT International Owner Notification Service List. 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:

BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers

Owners of record on the FAA Registration list and the

(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.



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# PART I

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
* 122B 1/4x1/4	Hex Nipple	1
* 101B 1/4x1/4x1/4	Tee	1
* 110B 1/4x1/8	Reducer	1
95-920017-5	Restrictor Assy.	1
AN816-6	Nipple	1
** LW12097 or	HA6 Carburetor	1
*** 10-5092		

# NOTE

Some of the affected airplanes will already have the above fittings installed. Replacement of the fittings is required only on initial carburetor replacement.

# PART II

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
** LW13659	MA4SPA Carburetor	1
or		
*** 10-5135		

- \* P/N of Imperial Eastman Corp., Chicago, IL 60648. \*\* P/N of Avco Lycoming, Williamsport, PA 17701.
- \*\*\* P/N of Marvel Schebler/Tillotson Div. of Borg Warner Corp., Decatur, IL 62525.

The value of the parts required to accomplish these Service Instructions on one airplane is to be advised. Prices, when issued, will be subject to change without notice.

### WARRANTY:

This is a product improvement and may be installed at the owner's option, therefore no warranty is applicable.

SPECIAL TOOLS:

None.

WEIGHT AND BALANCE:

None.

REFERENCES:

BEECHCRAFT Service Instructions No. 0608-259, Rev. I or subsequent.

**PUBLICATIONS AFFECTED:** 

It is recommended that a note to "See Service Instructions No. 0667-241, Rev. I or subsequent" be made in all BEECHCRAFT 19, 23 and 24 Parts Catalog copies, P/N 169-

590012I or subsequent, Figures 241B and 241D.

ACCOMPLISHMENT INSTRUCTIONS:

Carburetor replacement and air box modification may be accomplished as follows:

# NOTE

Service Instructions No. 0608-159, Rev. I or subsequent, if applicable, should be accomplished prior to or concurrently with these Service Instructions.

# PART I

- 1. Remove the upper engine cowling.
- Disconnect all lines, controls and ducts from the carburetor.
- Remove the existing carburetor and install the new carburetor.
- Install the tee, nipples, reducer and restrictor assembly as shown in the illustration.
- Reconnect all lines, controls and ducts to the new carburetor.
  - 6. Inspect the mixture control to ensure full travel.
- Adjust the idle mixture, idle speed and inspect all fittings for possible leaks.
  - 8. Reinstall the upper cowling.

# PART II

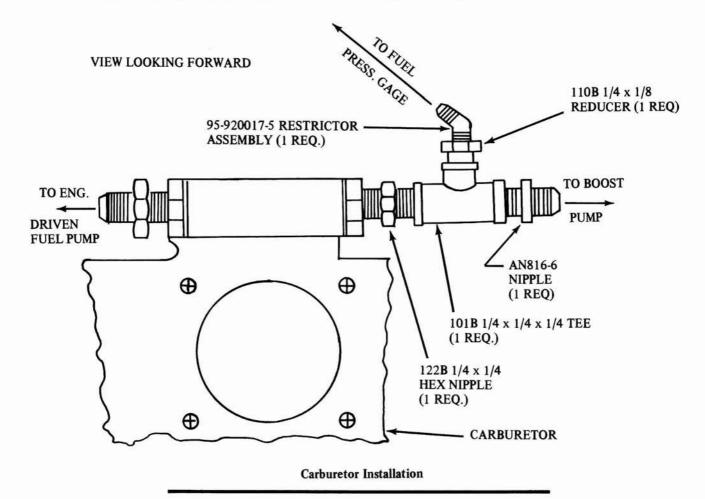
- 1. Remove the lower cowling.
- Disconnect all lines, controls and ducts from the carburetor.
  - 3. Remove the air box from the carburetor.

Remove the existing carburetor and install the new carburetor.

# NOTE

Step 5a and 5b below are required on the initial carburetor replacement only.

- 5. Modify the carburetor air box as follows:
- a. Remove the splitter vanes from the base of the air box.
- b. Grind and smooth all around the inside edge of the base of the air box to remove any remaining protrusions or rough areas.
  - 6. Install the air box to the carburetor.
  - 7. Reconnect all lines, controls and ducts.
- Inspect the mixture and throttle controls to ensure full travel.
  - 9. Reinstall the lower cowling.
- Adjust the mixture, idle speed and inspect all fittings for possible leaks.



RECORD COMPLIANCE:

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