



CLASS I SERVICE INSTRUCTIONS

19, 23, 24

No. 0566-241, Rev. II
ATA Code 71-60

SUBJECT: POWER PLANT - INSPECTION AND REPLACEMENT OF INDUCTION AIR DUCTS

SYNOPSIS OF CHANGE: To provide information clarifying the use of double wall induction air ducts.

EFFECTIVITY: BEECHCRAFT A23-19, 19A, M19A and B19, serials MB-1 through MB-520;
B19 Sport 150, serials MB-521 through MB-603;
23, A23, A23A, B23 and C23, serials M-2 through M-1361;
C23 Sundowner 180, serials M-1362 through M-1476;
A23-24 and A24, serials MA-1 through MA-368.

REASON: To inspect for possible separation of double wall ducts which were manufactured prior to the second quarter of 1978 as specified in the ACCOMPLISHMENT INSTRUCTIONS. Separation of the inner liner could cause a blockage of the air ducts which could cause partial or complete engine power loss.

COMPLIANCE: Beech Aircraft Corporation considers this to be a mandatory inspection/modification and, unless previously accomplished per FAA Airworthiness Directive 73-23-3, Amendment 39-1741 or subsequent revision or Rev. I of these Service Instructions, it should be accomplished within the next 100 service hours.

APPROVAL: FAA Approved.

MANPOWER: The following information is for planning purposes only:

Estimated man-hours: .5 hours.
Suggested number of men: 1 man.

MATERIAL: The following parts, if required, may be ordered through BEECHCRAFT Aero or Aviation Centers and International Distributors and Dealers.

AIRPLANES AFFECTED	NEW PART NUMBER	OLD PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
23 (M-2 through M-554 except M-3)	115167EXX120803	111728OF0-40	Filtered Air Duct	1
	115167EXX120883	111716AX6-44	Carburetor Heat Duct	1
A23 and A23A (M-3 and M-555 through M-1094)	115167EXX100323	115167DXX100283	Filtered Air Duct	1

AW 669
373
R374
R481 I

CLASS I

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.

98-34239D



Service Instructions No. 0566-241, Rev. II

AIRPLANES AFFECTED	NEW PART NUMBER	OLD PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
B23 (M-1095 through M-1284)	115167EXX121323	115167DXX121323	Filtered Air Duct	1
	115167EXX120803	SCEET12-80-3	Carburetor Heat Duct	1
	115167EXX120403	SCEET12-40-3	Carburetor Airbox to Carburetor	1
C23 (M-1285 through M-1476)	115167EXX121963 Single Wall Ducts (Except those ducts identified by FLX-2022-24-196-3 or BEE-2022-24-196-3) or 115167DXX121963 Dual Wall Duct Dated 2Q78 or after	115167EXX121963 Single Wall Duct (Also identified by FLX-2022-24-193-3, or BEE-2022-24-193-3) or 115167DXX121963 Dual Wall Duct Dated prior to 2Q78	Filtered Air Duct	1
	115167EXX101083 Single Wall Duct (Except those ducts identified by FLX-2022-20-108-3 or BEE-2022-20-108-3) or 115167DXX101083 Dual Wall Duct Dated 2Q78 or after	115167EXX101083 Single Wall Duct (Also identified by FLX-2022-20-108-3, or BEE-2022-20-108-3) or 115167DXX101083 Dual Wall Duct Dated prior to 2Q78	Carburetor Heat Duct	1
A23-19, 19A and M19A (MB-1 through MB-480)	115167EXX120603	SCEET12-60-3	Filtered Air Duct	1
	115167EXX120803	SCEET12-80-3	Carburetor Heat Duct	1
B19 (MB-481 through MB-603)	115167EXX121063 Single Wall Duct (Except those ducts identified by FLX-2022-24-106-3 or BEE-2022-24-106-3) or 115167DXX121963 Dual Wall Duct Dated 2Q78 or after	115167EXX121063 Single Wall Duct (Also identified by FLX-2022-24-106-3, or BEE-2022-24-106-3) or 115167DXX121963 Dual Wall Duct Dated prior to 2Q78	Filtered Air Duct	1
	115167EXX100723 Single Wall Duct (Except those ducts identified by FLX-2022-20-072-3 or BEE-2022-20-072-3) or 115167DXX100723 Dual Wall Duct Dated 2Q78 or after	115167EXX100723 Single Wall Duct (Also identified by FLX-2022-20-072-3, or BEE-2022-20-072-3) or 115167DXX100723 Dual Wall Duct Dated prior to 2Q78	Carburetor Heat Duct	1
A23-24 and A24 (MA-1 through MA-368)	115167EXX100203	115167DXX100283	Filtered Air Duct	1

WARRANTY: None.

SPECIAL TOOLS: None.

WEIGHT AND BALANCE: None.

REFERENCES: FAA Airworthiness Directive 73-23-3, Amendment 39-1741 or subsequent revision.

PUBLICATIONS AFFECTED:

It is recommended that a note to "See Service Instructions No. 0566-241, Rev. II" be made in all 19, 23, 24 series Parts Catalog copies P/N 169-590012I or subsequent, Figures 241, 241A, 241B, 241C and 241D.

ACCOMPLISHMENT

INSTRUCTIONS: These Service Instructions may be accomplished as follows:

1. Remove the engine cowling.
2. Inspect the carburetor air duct connecting the induction air filter to the carburetor air box (or fuel injector unit) and the duct from the carburetor hot air source to the carburetor air box to determine if they are single wall (reinforcing wire exposed inside the duct) or double wall (reinforcing wire sandwiched between material).

NOTE

On B23 airplanes three ducts are affected, filter to air box, carburetor heat shroud to air box and air box to carburetor.

3. If the existing ducts are single wall, no further action is necessary. Continue with step 6.
4. If the existing ducts are double wall, inspect the ducts to determine the date of manufacture.

NOTE

This date is usually located on the duct collar immediately adjacent to the duct part number. The first part of the manufacture date divides the production year into quarters, 1Q represents first quarter, 2Q represents second quarter etc. The remaining two numbers are the production year. Example, 3Q79 represents the third quarter of 1979.

5. If the existing double wall ducts were manufactured prior to the second quarter of 1978 (1Q78 or before) remove and replace the ducts with the appropriate ducts specified in the MATERIAL section. If the existing double wall ducts were manufactured after the second quarter of 1978 (2Q78 or after) no further action is necessary. Continue with step 6.
6. Reinstall the engine cowling.

RECORD

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