

SUBJECT: FUEL - REPLACEMENT OF THE ELECTRIC FUEL BOOST PUMP

**SYNOPSIS OF
DIFFERENCE:**

This Service Bulletin supersedes and cancels Service Instructions No. 0904.

P/N 1816-00-1 and P/N 1817-00-1 have been added as the replacement fuel boost pumps.

NOTE

Compliance with Service Instructions No. 0904 does not meet the intent on this Service Bulletin.

**OPERATIONAL
BENEFITS:**

Beech Aircraft Corporation is issuing this Service Bulletin to install electric boost pumps with improved vane material. Vanes in existing boost pumps can deteriorate and produce contaminants which cause the engine driven fuel pump to lose fuel pressure. This loss of fuel pressure can prevent the engine from producing power.

EFFECTIVITY:

BEECHCRAFT A23-24 and A24 Musketeer, serials MA-1 through MA-368;

A24R, serials MC-2 through MC-95;

A24R, B24R and C24R Sierra 200, serials MC-96 through MC-795.

COMPLIANCE:

Beech Aircraft Corporation considers this to be a mandatory modification and it should be accomplished as soon as possible after receipt of this Service Bulletin, but no later than the next 25 service hours.

An Airworthiness Directive has been requested on the matter covered by this Service Bulletin.

All existing P/N 1171-00-1 and P/N 1420-00-1 pumps in spares stock must be returned to Beech Aircraft Corporation for warranty credit.

APPROVAL:

Engineering data contained in this Service Bulletin is FAA approved.

MANPOWER:

The following information is for planning purposes only:

Estimated man-hours: 2 hours.

:Suggested number of men: 1 man.

No BECP M

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1 of 3

Beech Aircraft Corporation issues service information for the benefit of owners and fixed base operators in the form of two classes of Service Bulletins. Mandatory (Red Border) Service Bulletins are changes, inspections and modifications that could affect safety. The factory considers compliance with these Service Bulletins mandatory. OPTIONAL (No Border) Service Bulletins cover changes, modifications, improvements or inspections the factory feels will benefit the owner and although highly recommended, they are not considered mandatory compliance at the time of issuance, unless so stated in the publication. Due to the wide range of information covered by the OPTIONAL Service Bulletin, each owner/operator is responsible for conducting a thorough review of each Optional Service Bulletin and determine if compliance is required based on the applicability of the OPTIONAL Service Bulletin to his particular set of operating conditions. Both classes are mailed to:

- (a) BEECHCRAFT Authorized Outlets.
- (b) Owners of record on the FAA Aircraft Registration Branch List and the BEECHCRAFT International Owner Notification Service List.

- (c) Those having a publications subscription.

Information on Owner Notification Service or Subscriptions can be obtained through any BEECHCRAFT Authorized Outlet. As Service Bulletins are issued, temporary notification in the Service Bulletin Master Index should be made until the index is revised. Warranty will be allowed only when specifically defined in the Service Bulletin and in accordance with the Beech Aircraft Corporation Warranty Policy.

Unless otherwise designated, Beech Aircraft Corporation Service Bulletins as well as BEECHCRAFT kits are approved for installation on BEECHCRAFT airplanes in original or BEECHCRAFT modified configurations only. BEECHCRAFT Service Bulletins and Kits may not be compatible with airplanes modified by STC installations or modifications other than BEECHCRAFT Approved kits.

Service Bulletin No. 2217

The above is an estimate based on experienced, properly equipped personnel complying with this Service Bulletin. Occasionally, after work has started, conditions may be found which could result in additional man-hours.

MATERIAL:

MA-1 through MA-368; MC-2 through MC-673

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
1816-00-1	Fuel Pump	1 Required

MC-674 through MC-795

PART NUMBER	DESCRIPTION	QUANTITY PER AIRPLANE
1817-00-1	Fuel Pump	1 Required

The value of the part required to incorporate this Service Bulletin on one airplane is to be advised. Price, when issued, will be subject to change without notice.

WARRANTY CREDIT:

Warranty credit for parts and labor to the extent noted under MATERIAL and MAN-POWER will be allowed on all affected airplanes which are within warranty at the time this Service Bulletin is issued.

For airplanes which are beyond the initial warranty coverage, we will offer these pumps at a cost of \$140.00 to the airplane owner. The pump removed from the airplane or from spares stock must be returned to the BEECHCRAFT Authorized Outlet for forwarding to Beech Aircraft Corporation through normal warranty filing procedures to receive credit for the new pump, less the \$140.00 charge.

Warranty coverage offered in this Service Bulletin will expire 12 months from the last day of the month this Service Bulletin is issued. After this date, the owner/operator assumes the responsibility for compliance and cost. Beech Aircraft Corporation reserves the right to void continued warranty coverage in the area affected by this Service Bulletin if this Service Bulletin is not complied with.

All warranty reimbursements are handled through franchised BEECHCRAFT Authorized Outlets. 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 a BEECHCRAFT Authorized Outlet.

SPECIAL TOOLS:

None.

WEIGHT AND BALANCE:

None.

REFERENCES:

None.

**PUBLICATIONS
AFFECTED:**

It is recommended that a note "See Service Bulletin No. 2217" be made in the following: BEECHCRAFT 19, 23, 24 Parts Catalog, P/N 169-5900012J or subsequent, Figure 285; BEECHCRAFT B19, C23, C24R Parts Catalog, P/N 169-590026E or subsequent, Figure 281.

**ACCOMPLISHMENT
INSTRUCTIONS:**

This Service Bulletin may be accomplished as follows:

1. Gain access to the electric fuel boost pump which is located beneath the forward cabin floorboards.

NOTE

On airplanes with 14 volt electrical systems (MA-1 through MA-368 and MC-2 through MC-673) replace the existing fuel boost pumps with P/N 1816-00-1 pumps. On airplanes with 28 volt electrical systems (MC-674 through MC-795) replace the existing fuel boost pumps with P/N 1817-00-1 pumps.

2. Remove the existing fuel boost pump and install the new fuel boost pump.
3. Disconnect the inlet fuel line to the engine driven fuel pump and flush out the fuel line between the boost pump and the engine driven fuel pump.
4. Reconnect the inlet fuel line to the engine driven fuel pump.
5. Start the engine and check the operation of the new pump.
6. Shut the engine off and check for fuel leaks.
7. Replace any equipment which was removed to facilitate the fuel boost pump replacement.

RECORD COMPLIANCE: Upon completion of this Service Bulletin, make an appropriate maintenance record entry.

NOTE

If you are no longer in possession of this airplane, please forward this information to the present owner.