

19, 23, 24

No. 2187
ATA Code 32-50

SUBJECT: LANDING GEAR - INSPECTION AND/OR MODIFICATION OF NOSE LANDING GEAR SHIMMY DAMPER

OPERATIONAL BENEFITS: Beech Aircraft Corporation is issuing this Service Bulletin to insure safe handling of aircraft during ground operations.

EFFECTIVITY: BEECHCRAFT A23-19, 19A, M19A and B19, serials MB-1 through MB-520;
B19 Sport 150, serials MB-521 through MB-905;
23, A23, A23A, B23 and C23, serials M-1 through M-1361;
C23 Sundowner 180, serials M-1362 through M-2156, M-2158 through M-2392;
A23-24 and A24, 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.

No Airworthiness Directive has been issued on this subject.

APPROVAL: Engineering data contained in this Service Bulletin is FAA approved.

MANPOWER: The following information is for planning purposes only:
Estimated man-hours to inspect shimmy damper for condition, function and attachment: 1 hour.
Estimated man-hours to service shimmy damper or to convert P/N 169-380029-5 into a P/N 169-380029-7: 1 hour.
Suggested number of men: 1 man.

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.

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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.

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MATERIAL:

The P/N 169-380029-7 shimmy damper and the Commercial Aircraft Products Kit No. C100016-1B, if required for this modification, may be ordered through a BEEHCRAFT Authorized Outlet. The value of the kit required to accomplish this modification on one airplane is to be advised. Price, when issued, will be subject to change without notice.

WARRANTY:

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 released.

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 BEEHCRAFT 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 BEEHCRAFT Authorized Outlet.

SPECIAL TOOLS:

None.

WEIGHT AND BALANCE:

None.

REFERENCES:

None.

PUBLICATIONS AFFECTED:

It is recommended that a note to "See Service Bulletin No. 2187" be made in the following:

BEEHCRAFT 19, 23 and 24 Series Parts Catalog, P/N 169-590012J or subsequent, Figure 209;

BEEHCRAFT B19, C23, C24R Parts Catalog (MB-866 and after; M-1971, M-1980 and after; MC-533, MC-537 and after) P/N 169-590026E or subsequent, Figure 210.

ACCOMPLISHMENT INSTRUCTIONS:

This Service Bulletin may be accomplished as follows:

1. Inspect the nose landing gear shimmy damper for part number, condition, function and attachment as follows:
 - a. Remove shimmy damper from the airplane.
 - b. Dampers will have one of the following Beech Aircraft Corporation part numbers; P/N 169-380029-1, P/N 169-380029-3, P/N 169-380029-5, or P/N 169-380029-7.
 - c. If the shimmy damper is marked 169-380029-5, check for the vendor's part number. Dampers with a C100016-1 must have Kit P/N C100016-1B ordered and installed. Modified units are then permanently remarked as P/N 169-380029-7 per kit instructions.
 - d. If the shimmy damper is marked 169-380029-5 and the vendor's part number is C100016-1A, perform the following:
 - 1) Obliterate the existing Beech Aircraft Corporation part number and permanently mark P/N 169-380029-7 on the shimmy damper.
2. The P/N's 169-380029-1, 169-380029-3 and 169-380029-7 may be used as is, provided they do not leak, suffer from damage and function satisfactorily. Inspect for condition as follows:
 - a. Visually inspect the shimmy damper for leakage or visible damage.
 - b. Damage which is severe enough to hamper the function of the shimmy damper is grounds for rejection. Repair or replace leaky or damaged shimmy dampers with P/N 169-380029-7.
3. Inspect for function as follows:
 - a. Move the shimmy damper to the middle of its stroke.
 - b. Move the piston vigorously in both directions from mid-stroke.
 - c. If any unrestricted movement or improper damping action is detected, repair or replace the unit with shimmy damper P/N 169-380029-7.
4. Inspect all attaching hardware and external parts of the shimmy damper. Replace any damaged, worn or missing attaching hardware or damper parts.

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.