Single Engine

Service Bulletin

September 29, 2003

SB03-32-01

TITLE

NOSE LANDING GEAR WHEEL FAIRING MODIFICATION

EFFECTIVITY

NOTE: This does not affect model 206H and T206H airplanes equipped with heavy duty nose wheel fairings.

<table>
<thead>
<tr>
<th>Model</th>
<th>Serial Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>172R</td>
<td>17280001 thru 17281097</td>
</tr>
<tr>
<td>172S</td>
<td>172S8001 thru 172S9062</td>
</tr>
<tr>
<td>182S</td>
<td>18280001 thru 18280944</td>
</tr>
<tr>
<td>206H</td>
<td>20608001 thru 20608198</td>
</tr>
<tr>
<td>T206H</td>
<td>T20608001 thru T20608391</td>
</tr>
</tbody>
</table>

REASON

To provide a modification to enhance the strength of the nose landing gear wheel fairing upper attachment area.

DESCRIPTION

Modification Kit MK172-32-01 should be installed to incorporate the modification on the fairing.

COMPLIANCE

Optional; may be accomplished if desired.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.
MANPOWER

2.8 man-hours per airplane to install MK172-32-01

REFERENCES

Modification Kit MK172-32-01


NOTE: Make sure all publications used are complete and current.

NOTE: This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual.

OTHER PUBLICATIONS AFFECTED

Model 172R and Model 172S Illustrated Parts Catalog

Model 182S/182T/T182T Illustrated Parts Catalog

Model 206H & Model T206H Illustrated Parts Catalog

NOTE: Make sure all publications used are complete and current.

MATERIAL PRICE AND AVAILABILITY

The following is available from Cessna Parts Distribution through an appropriate Cessna Service Station for the suggested list price shown.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty/Airplane</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK172-32-01</td>
<td>Nose Landing</td>
<td>1</td>
<td>$44.00</td>
</tr>
<tr>
<td></td>
<td>Gear Wheel Fairing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Modification Kit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE
CREDIT INFORMATION

For airplanes within warranty, applicable Modification Kit parts credit and a labor allowance credit of 2.8 man-hours per airplane will be provided to install MK172-32-01.

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station within 30 calendar days of Service Bulletin compliance before the credit expiration dates shown below.

Domestic ................................ September 29, 2004
International .......................... September 29, 2004

ACCOMPLISHMENT INSTRUCTIONS

Modification Kit MK172-32-01 instructions are attached.

OWNER NOTIFICATION

On September 29, 2003 the following Owner Advisory message will be sent to applicable owners of record in SB03-32-01A.

Dear Cessna Owner:

This Owner Advisory is to inform you that Service Bulletin SB03-32-01 has been issued to provide a modification to enhance the strength of the nose landing gear wheel fairing upper attachment area. Modification Kit MK172-32-01 should be installed to incorporate the modification on the fairing.

Compliance is optional, may be accomplished if desired.

The information contained in the referenced Cessna Service Bulletin shall be considered an amendment to the Cessna Manufacturer’s Service/Maintenance Manual.

For airplanes within warranty, applicable Modification Kit parts credit and a labor allowance credit of 2.8 man-hours per airplane will be provided to install MK172-32-01.

To receive credit, the work must be completed and a Warranty Claim submitted by a Cessna Single Engine Service Station within 30 calendar days of Service Bulletin compliance before the credit expiration dates shown below.

Domestic ................................ September 29, 2004
International .......................... September 29, 2004

Please contact a Cessna Single Engine Service Station for detailed information and if desired, arrange to have Cessna Service Bulletin SB03-32-01 accomplished on your airplane.

* * * * * * * * * * * * *
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NOSE LANDING GEAR WHEEL FAIRING MODIFICATION

EFFECTIVITY

NOTE: This does not affect model 206H and T206H airplanes equipped with heavy duty nose wheel fairings.

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<td>T206H</td>
<td>T20608001 thru T20608391</td>
</tr>
</tbody>
</table>

DESCRIPTION
This modification kit provides parts and instructions to modify the upper attachment area of the nose landing gear fairing.

APPROVAL
FAA approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE
SB03-32-01

CHANGE IN WEIGHT AND BALANCE

<table>
<thead>
<tr>
<th>Model</th>
<th>172R/172S/182S/206H/T206H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight Change</td>
<td>Negligible</td>
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</tbody>
</table>
MATERIAL INFORMATION
The following parts will be necessary:

<table>
<thead>
<tr>
<th>NEW P/N</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>OLD P/N</th>
<th>DISPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK172-32-01</td>
<td>1</td>
<td>Kit, consisting of the following parts:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0543089-1</td>
<td>1</td>
<td>Bracket</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>0543089-2</td>
<td>1</td>
<td>Doubler</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>MS20426B3-8N</td>
<td>16</td>
<td>Rivets</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>MS24665-136</td>
<td>1</td>
<td>Cotter Pin</td>
<td>MS24665-136</td>
<td>Discard</td>
</tr>
<tr>
<td>MK172-32-01</td>
<td>1</td>
<td>Instructions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The material identified below (or equivalent) may be necessary.

<table>
<thead>
<tr>
<th>NAME</th>
<th>NUMBER</th>
<th>MANUFACTURER</th>
<th>USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosion Resistant</td>
<td>513 x 419910 x 942</td>
<td>PRC-DeSoto International</td>
<td>To apply to bare metal.</td>
</tr>
<tr>
<td>Primer</td>
<td></td>
<td>5430 San Fernando Road Glendale, CA 91209</td>
<td></td>
</tr>
</tbody>
</table>

ACCOMPLISHMENT INSTRUCTIONS

1. Electrically ground the airplane and turn all switches to the "OFF" position. If external power is connected to the airplane, disconnect external power from receptacle.

2. Disconnect the airplane battery. (Refer to the appropriate Maintenance Manual, Chapter 24, Electrical Power.)

3. Attach maintenance warning tags to the battery and external power receptacle with the following instruction: **DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS.**

4. (Refer to Figure 1, View D-D.) Drill a 0.31 inch diameter hole in both of the 0543089-1 Bracket pilot hole locations.

**NOTE:** Alignment of the nose wheel fork attachment holes to the 0.31 inch diameter holes in the 0543089-1 Bracket will occur with minimum reaming (Step 14) if this Step is accomplished with care.

5. Remove the nose wheel fairing upper mounting bolt and keep the hardware for installation.

6. (Refer to Figure 1, Sheet 1 and Sheet 4.) Put the 0543089-1 Bracket over the upper crown of the nose wheel fairing and align the two upper 0.31 inch diameter attach holes in the nose wheel fairing with the two 0.31 inch diameter attach holes in the 0543089-1 Bracket.

**NOTE:** Make sure the mating surface locations for the 0543089-1 Bracket and 0543089-2 Doubler (both on the bottom and on the top of the fairing) are smooth and clean of all dirt, grease, and composite material inconsistencies.

**NOTE:** Temporarily insert a 5/16 bolt into each 0.31 inch diameter hole to align the nose wheel fairing to the 0543089-1 Bracket.

7. (Refer to Figure 1, Sheet 2.) Hold the 0543089-1 Bracket in place with the 0.31 inch holes in alignment, and trace the footprint of the bracket flange onto the fairing surface. Remove the 0543089-1 Bracket.
8. Remove the nose wheel fairing and cover plate, and keep all the hardware. (Refer to the appropriate Maintenance Manual, Chapter 32, Nose Landing Gear - Maintenance Practices.)

9. (Refer to Figure 1, Sheet 3 and Sheet 4.) Trim off the entire upper crown portion of the wheel fairing.
   **NOTE:** Make sure to leave enough material for good edge margin (two times rivet diameter) when the 0543089-1 Bracket and 0543089-2 Doubler are installed to the nose wheel fairing.

10. (Refer to Figure 1, Sheet 4.) Put the 0543089-1 Bracket on the top side of the nose wheel fairing and align the bracket flange to the traced lines drawn in Step 7. Drill thirteen equal spaced 0.098 inch diameter holes through the 0543089-1 Bracket and the Fairing.

11. (Refer to Figure 1, Sheet 4.) Put the 0543089-2 Doubler on the bottom side of the modified nose wheel fairing and align it with the 0543089-1 Bracket located in Step 10. Use the 0543089-1 Bracket and fairing drilled in Step 10 and drill matching 0.098 inch diameter holes through the 0543089-2 Doubler.

   A. Attach the 0543089-1 Bracket, 0543079 Nose Wheel Fairing and the 0543089-2 Doubler together with temporary sheet metal fasteners and adjust them as necessary to make sure these parts are aligned.

   B. Countersink (100 degree) each 0.098 inch diameter hole on the upper surface of the 0543089-1 Bracket.

   C. Remove the 0543089-1 Bracket, 0543079 Nose Wheel Fairing and the 0543089-2 Doubler, and deburr each hole and assemble these parts together with temporary sheet metal fasteners.

12. (Refer to Figure 1, Sheet 4.) Attach the 0543089-1 Bracket and the 0543089-2 Doubler to the modified nose wheel fairing with MS20426B3-8N Rivets.

13. Make sure there is a minimum clearance of 0.03 inches between the nose landing gear fork and the radius of the 0543089-1 Bracket.

14. (Refer to Figure 1, Sheet 4.) Increase the 0.31 inch diameter holes in the 0543089-1 Bracket to match the upper attach holes in the fork as necessary.

   **NOTE:** Alignment of the nose wheel fork attachment holes to the 0.31 inch diameter holes in the 0543089-1 Bracket will occur with minimum reaming if Step 4 was accomplished with care.

   A. Paint the bare edges of the 0543089-1 Bracket holes with epoxy primer.

15. Paint the 0543089-1 Bracket and touch-up the nose wheel fairing with paint that matches the airplane as necessary.

16. Install the nose wheel fairing with the attached 0543089-1 Bracket and the cover plate to the nose landing gear fork with the hardware kept in Step 5 and Step 8. (Refer to the appropriate Maintenance Manual, Chapter 32, Nose Landing Gear - Maintenance Practices)

17. Remove the maintenance warning tags from the battery and external power receptacle.

18. Connect the airplane battery. (Refer to the appropriate Maintenance Manual, Chapter 24, Electrical Power.)

19. Make an entry in the airplane logbook that this modification kit has been installed.
MODEL 172 LOCATOR SHOWN (TYPICAL ON OTHER MODELS)

DETAIL A

TOW-BAR SPACER
UPPER CROWN OF NOSE WHEEL FAIRING

COVER PLATE

NOSE WHEEL FAIRING

Figure 1. Nose Gear Wheel Fairing Modification (Sheet 1)
Figure 1. Nose Gear Wheel Fairing Modification (Sheet 2)
Figure 1. Nose Gear Wheel Fairing Modification (Sheet 3)
NOTE 1: ALL DIMENSIONS SHOWN ARE IN INCHES.
NOTE 2: LOCATE 0543089-2 BRACKET DOUBLER TO MATCH 0543089-1 BRACKET FLANGE.

Figure 1. Nose Gear Wheel Fairing Modification (Sheet 4)