

Service Bulletin No: 32-004

Ref No: 206

Modification No: ECs: 12-0020, 13-0379, 13-0634, 14-0375, 16-0048

ATA Chapter: 32

**LANDING GEAR - V-STRUT ASSEMBLY
INSTALLATION OF IMPROVED STONE GUARDS****1. Planning Information****A. Effectivity**

All PC-6 aircraft.

B. Concurrent Requirements

None.

C. Reason**(1) Problem**

Aircraft equipped with oversize mainwheels and tires (for rough field operation) also have mudguards installation (P/N 114.35.06.035/036) or stone guards installation (P/N 114.35.06.073/074 or 114.35.06.085/086) installed on the V-struts. These help to prevent damage to the wing and tail from loose debris thrown up by the mainwheels. Operators have reported failures of the mudguard supports and stone guard mounting yokes. The failures are caused by fatigue damage.

(2) Solution

Remove the existing mudguards or stone guards and install smaller stone guards installation (P/N 114.35.06.128) which are designed for the same purpose but are optimized.

NOTE: The new stone guards can also be installed on aircraft that did not previously have mudguards or stone guards.

D. Description

This Service Bulletin gives the instructions and data necessary to remove the mudguards or stone guards (if installed) and install the new improved stone guards.

NOTE: The stone guards are installed on the ski attachment brackets which can have a thickness of 4,0 mm or 6,3 mm. Some of the parts required are different (Ref. Para 2. B. (1)).

Revision 1 to this Service Bulletin:

- Adds data for the special bolt used on 6,3 mm ski attachment brackets
- Relocates the bonding point (for the refuelling equipment) to the outboard ski attachment bracket of the left V-strut. This is necessary because the new stone guard installation obstructs the attachment of the bonding clip
- Includes additional Weight and Balance data for the new stone guards
- Updates the Service Bulletin to the latest standard.

Aircraft modified by the initial issue of this Service Bulletin, require the following rework:

- (1) Remove the stone guards.
- (2) Do the relocation of the bonding point on the left V-strut (Ref. Para. 3.D.).
- (3) Install the stone guards.

Revision 2 to this Service Bulletin:

- Adds a step to make sure the wheel chock can be put in position
- Amends the position of the attachment hole to increase the minimum ground clearance of the stone guard. This permits the use of wheel chocks with a maximum height of 160 mm (6.3 in.)
- Updates the Service Bulletin to the latest standard.

Aircraft modified by a previous issue of this Service Bulletin require no rework.

E. Compliance

Optional.

F. Approval

The technical content of this Service Bulletin is approved under the authority of DOA No. EASA. 21J. 357.

Pilatus advises Operators/Owners to check with their designated Airworthiness Authorities for any changes, local regulations or sanctions that may affect the embodiment of this Service Bulletin.

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H. Manpower

Task	Man-hours
Job Set Up	1.0
Removal	1.0
Preparation for Installation	3.5
Relocation of the Bonding Point	1.0
Installation	1.5
Close Up	1.0
TOTAL MAN-HOURS	9.0

NOTE: Man-hours figures do not include the time required to cure sealants, paints and adhesives.

I. Weight and Balance**(1) Weight Change**

Mudguards installation (P/N 114.35.06.035/036) removed:	- 5.0 kg
Stone Guards installation (P/N 114.35.06.073/074) removed:	- 6,4 kg
Stone Guards installation (P/N 114.35.06.085/086) removed:	- 6,4 kg
Stone Guards installation (P/N 114.35.06.128 up to issue B) installed:	+ 5,8 kg
Stone Guards installation (P/N 114.35.06.128 issue C) installed:	+ 6,2 kg

(2) Moment Change

Mudguards installation (P/N 114.35.06.035/036) removed:	- 14,5 kg m
Stone Guards installation (P/N 114.35.06.073/074) removed:	- 20,7 kg m
Stone Guards installation (P/N 114.35.06.085/086) removed:	- 20,7 kg m
Stone Guards installation (P/N 114.35.06.128 up to issue B) installed:	+ 17,2 kg m
Stone Guards installation (P/N 114.35.06.128 issue C) installed:	+ 18,4 kg m

J. Electrical Load Data

Not changed.

K. Software

Not changed.

L. References

Aircraft Maintenance Manual (AMM): 12-14-32, 20-31-00.

M. Publications Affected

Illustrated Parts Catalog (IPC) 32-11-11.

Component Maintenance Manual (CMM): 32-11-11.

N. Interchangeability of Parts

Not applicable.

2. Material Information**A. Material - Price and Availability**

No Modification Kit is required for this Service Bulletin.

Operators who require further information and/or Service Bulletin material should contact their Authorized Pilatus Service Center, or: .

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B. Material Necessary for Each Aircraft

NOTE: Part numbers given in this Service Bulletin are correct at the time of approval. Pilatus Aircraft Ltd. reserves the right to change the part numbers as necessary. Part numbers of items delivered are correct when dispatched. This could lead to differences between those part numbers quoted in this Service Bulletin and the delivered parts, if parts are superseded. Operators are requested to check the IPC for delivered parts which differ from those listed in the Service Bulletin Materials List.