

Service Bulletin

- Title:** AS350 Air Conditioner Compressor / Transmission Strut Interference. (Poly-V Configuration)
- Subject:** This service bulletin addresses the upgrade of existing AS350 Air Comm Corporation compressor drive installations to preclude contact between the air conditioning compressor pulley and the L/H aft transmission support tube.
- Date:** 2 April 2009
- Applicability:** Eurocopter Model AS350 B3 equipped with Air Comm Corporation air conditioning. (Poly-V Configuration) Air Comm Corporation Serial number AS350-001 through AS350-040
- Reference:** 1) STC. Number SR00643DE, AS350 Cabin Air Conditioner
2) ACC Drawing Number AS350-302 Compressor Installation Rev B
3) ACC Drawing Number AS350-202 Air Conditioner General Arrangement Rev N/C
- Compliance:** Mandatory within 100 hours of receipt of this bulletin.

I Discussion: Air Comm corporation has received reports of damage caused by contact between the L/H aft transmission support tube and the pulley on the air conditioner compressor. This service bulletin provides a new drive belt, belt tension link assembly, and strut protection clamps to prevent possible damage to the strut.

II Approval: Technical aspects of this service bulletin are FAA-DER approved.

III Bill Of Materials:

Parts to be removed:

ITEM	DESCRIPTION	PART NUMBER	QTY
1	Drive Belt	ES35130-2	2
2	Link Assembly	S-3018EC-30	1

Parts to be installed after inspection:

ITEM	DESCRIPTION	PART NUMBER	QTY
1	Drive Belt	ES35130-3	2
2	Clamp	S-3542EC-2	2
3	Link Assembly	S-3018EC-2	1
4	Rubber Sheet	S-3544EC-2	1

Reference documents:

ITEM	DESCRIPTION	DOCUMENT NUMBER	QTY
1	AS350 Air Conditioner ICA	AS350-200M-1 Rev 2	1

Please contact the Air Comm Corporation service department to obtain these parts at no charge.

Rev A: Revised clamp and rubber sheet to fit strut. Removed barrel assembly and added link assembly.
Date: 19 August 2009

IV Accomplishment Instructions

A. Removal

1. Loosen the compressor pivot bolts (QTY 2) located on the inboard side of the compressor mount assembly. Do not remove the compressor pivot bolts.
2. Remove the safety wire from the S-3018EC-30 link assembly and loosen the corresponding jam nuts. Relieve the belt tension by adjusting the belt tension link assembly and remove the drive belt from the compressor pulley.
3. With the drive belt removed Rotate the compressor outward until the compressor pulley comes within 0.06”(1.52mm) of the transmission support tube and mark at the point of potential contact using a non destructive method.
4. Remove the S-3018EC-30 link assembly and discard.

CAUTION

To prevent damage to the air conditioning compressor or the aircraft care must be taken to support the air conditioning compressor assembly after removal of the belt tension link assembly

5. Disassemble the tail rotor drive shaft in accordance with the applicable AS350 maintenance manual and remove the existing ES35130-2 air conditioner drive belt.

NOTE

The air conditioner compressor installation allows for the installation and storage of an extra drive belt. Both drive belts must be removed and discarded.

B. Installation

6. Install the S-3018EC-2 link assembly per figure 1.
7. Install the new ES35130-3 drive belts onto the tail rotor drive shaft. Stow QTY 1 in accordance with the AS350-200M-1 air conditioner ICA and reassemble the tail rotor drive shaft in accordance with applicable AS350 maintenance manual.
8. Install the ES35130-3 drive belt onto the air conditioning compressor assembly and adjust belt tension in accordance with the AS350-200M-1 air conditioner ICA. Torque the compressor pivot bolts (QTY 2) to 160-190 in.lbs (18.07-21.46 nm)
9. Replace the safety wire removed in step 3 using MS20995 C32 safety wire in accordance with NASM33540 or equivalent.
10. Using the mark from step 5 center the S-3542EC-2 rubber sheet (trim rubber if required to ensure no overlap.) and install using QTY 2 S-3542EC-2 clamps. (Ref Fig 1) Safety wire the S-3542EC-2 clamps using MS20995 safety wire in accordance with NASM33540.
11. Return air conditioner to service

(Continued)

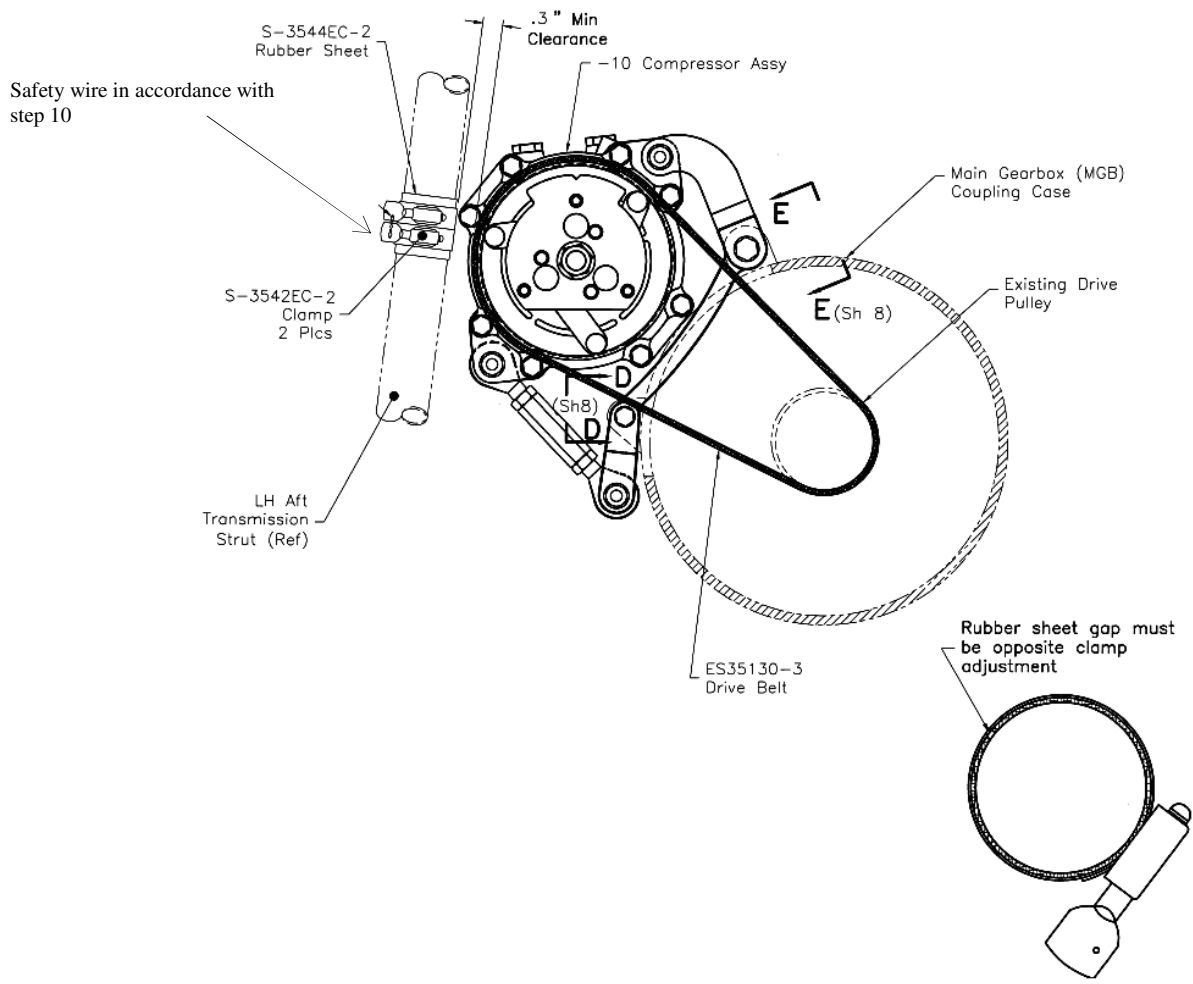


Figure 1 Rubber Sheet and Clamp installation
(View looking aft)

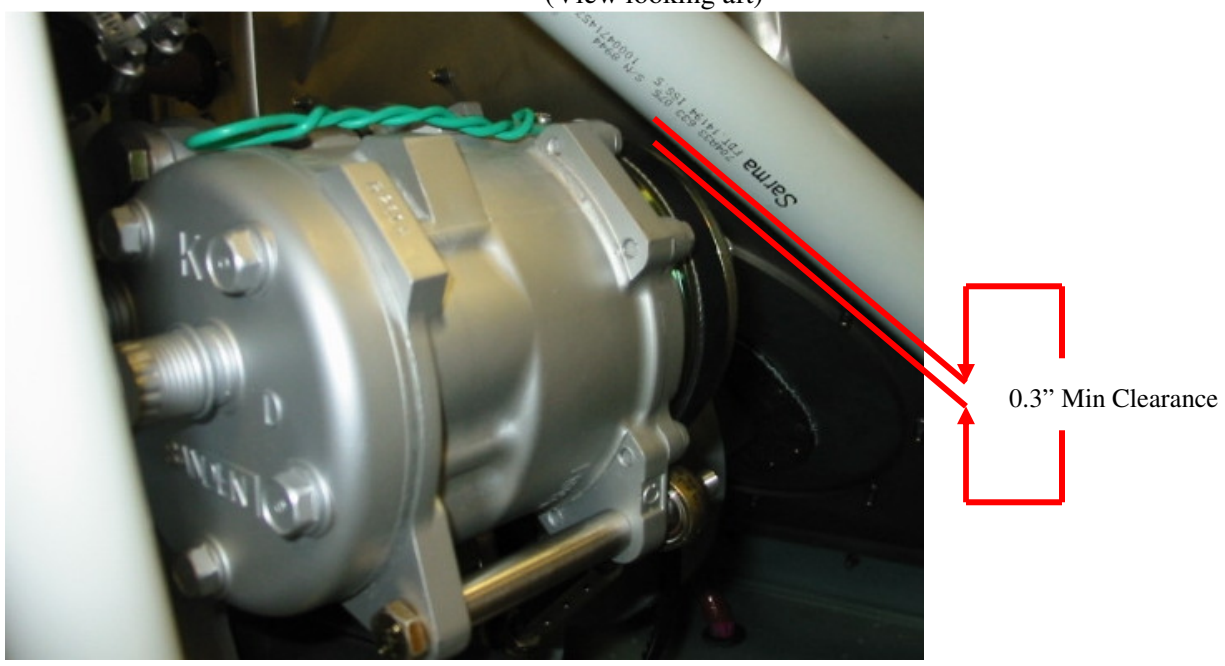


Figure 2 Compressor / Strut Clearance
(View looking forward)