

Service Bulletin

- Title:** AS350 Air Conditioner Compressor / Transmission Strut Interference. (Flat Belt 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 B, B1, B2, BA, B3, C, D, and D1 equipped with Air Comm Corporation air conditioning. (Flat Belt Configuration) Air Comm Corporation Serial number AS350-001 through AS350-043
- Reference:** 1) STC. Number SR00643DE, AS350 Cabin Air Conditioner
2) ACC Drawing Number AS350-300 Compressor Installation Rev L
3) ACC Drawing Number AS350-200 Air Conditioner General Arrangement Rev D
- 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 and strut protection clamps to prevent possible damage to the strut.

NOTE

If the compressor strut clearance shown on page 3 exists, a new drive belt is not required

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

IV Bill Of Materials:

Parts to be removed after failure of inspection:

ITEM	DESCRIPTION	PART NUMBER	QTY
1	Drive Belt	ES35350-1	2

Parts to be installed after inspection:

ITEM	DESCRIPTION	PART NUMBER	QTY
1	Drive Belt	ES35350-3	2
2	Clamp	S-3542EC-2	2
3	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.
Date: 19 August 2009

A. Inspection

1. Locate the S-3048EC-1 compressor assembly and inspect for a minimum of 0.3” (7.62 mm) clearance between the L/H transmission support tube and the face of the S-3048EC-1 Compressor Pulley (See fig 1).
 - a. If 0.3”(7.62 mm) of clearance is observed DO NOT perform steps 5 and 6 of the accomplishment instructions.
 - b. If 0.3”(7.62 mm) of clearance is not observed proceed to step 2 of the removal instructions.

B. Removal

2. Loosen the compressor pivot bolts (QTY 2) located on the inboard side of the compressor mount assembly. Do not remove the compressor pivot bolts.
3. Remove the safety wire from the S-3018EC-5 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.
4. 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.
5. Disassemble the tail rotor drive shaft in accordance with the applicable AS350 maintenance manual and remove the existing ES35350-1 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.

C. Installation

6. Install the new ES35350-3 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.
7. Install the ES35350-3 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)
8. Replace the safety wire removed in step 3 using MS20995 C32 safety wire in accordance with NASM33540 or equivalent.
9. Using the mark from step 5 center the S-3542EC-2 rubber sheet and install using QTY 2 S-3542EC-2 clamps. (Ref Fig 2) Safety wire the S-3542EC-2 clamps using MS20995 safety wire in accordance with NASM33540
10. Return air conditioner to service

(Continued)

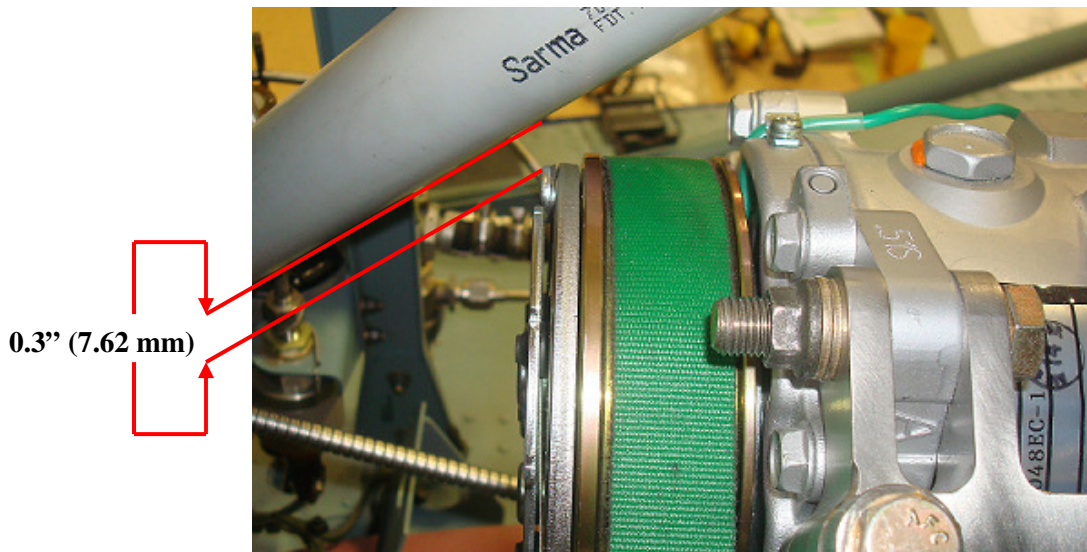


Figure 1 Compressor to Transmission Support Tube Clearance
(View looking outboard)

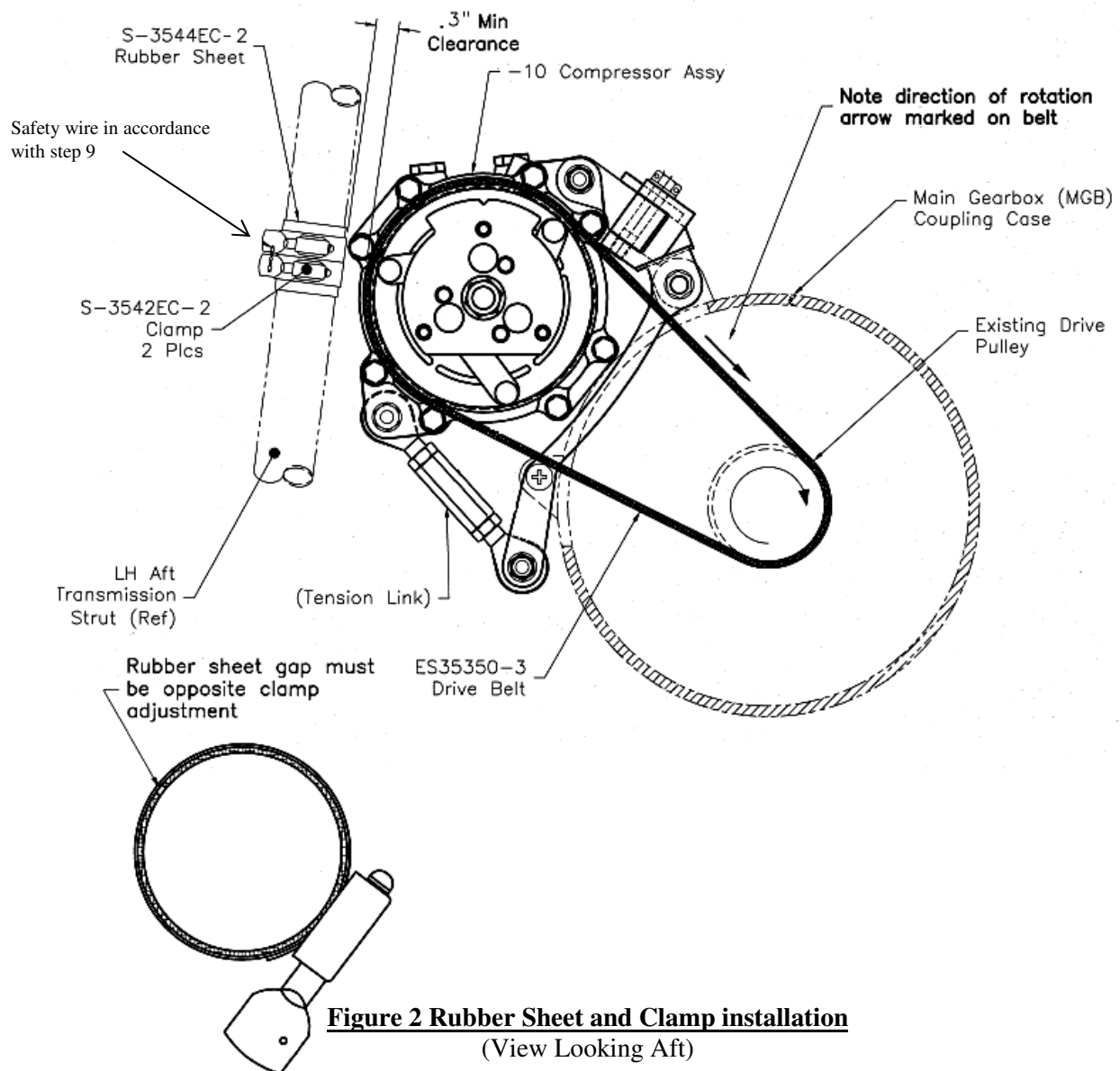


Figure 2 Rubber Sheet and Clamp installation
(View Looking Aft)