

ALERT SERVICE BULLETIN

AERONAUTICAL ACCESSORIES, INC.
P.O. BOX 3689 • BRISTOL, TENNESSEE 37625-3689

ASB NO. 99075 NO REV. • DATE: JUNE 18, 1999 • PAGE 1 OF 7

SUBJECT: **HOIST SUPPORT INSTALLATION, LUCAS
WESTERN HOIST;
P/N 412-142-300/-350/-400**

HELICOPTERS AFFECTED: All Bell 205A-1, 212, 412, 412EP helicopters equipped with subject Hoist Support Installation.

COMPLIANCE: This Alert Service Bulletin shall be complied with immediately upon receipt.

DESCRIPTION: During routine inspection of a Lucas Western External Hoist System installed on a 412 helicopter, it was discovered that one of the AN4C36 Bolts used to attach the Hoist to the Hoist Support Assembly had failed. Engineering investigation indicated that the head of the bolt was sheared due to fatigue. The redundant design of the Hoist Support Installation allowed the Hoist to function normally with only one of the two attachment bolts in place. This Alert Service Bulletin gives instructions to replace the current two AN4C36 Bolts used to attach the Hoist to the Hoist Support Assembly with increased strength NAS6204-54 Bolts. This Bulletin also gives instructions for Sealant installation between the Hoist Socket and Hoist Support Sleeve to dampen vibration.

ECCN
9E991

IF OWNERSHIP OF AIRCRAFT HAS CHANGED PLEASE FORWARD TO NEW OWNER

LOG OF REVISIONS

Revision	Date	Description	Pages Affected
--	6/18/99	Original Release	All

MANPOWER:

Approximately one and one-half (1.5) man-hours.

MATERIAL:

The following material required to comply with this Bulletin is provided with the Bulletin:

- Two NAS6204-54 Bolts
- Two NAS1291C4M Nuts
- Four AN960C416L Washers
- One NAS 1291-7 Nut
- Sealant (MIL-S-8802 TY 2 CL B1/2)

The following consumable material is required to comply with this Bulletin and may be procured locally:

- Isopropyl Alcohol

SPECIAL TOOLS:

None required.

WEIGHT AND BALANCE:

Not affected.

ACCOMPLISHMENT INSTRUCTIONS:

CAUTION

The Hoist Support Assembly, when installed on the aircraft with the hoist assembly attached, is heavy and somewhat awkward to handle. Prior to removing the hoist from the aircraft, ensure that a minimum of 3 people are on hand to assist with removal.

1. Disconnect Cable Assemblies (412-146-101/-102) from the two connectors mounted just aft of the Hoist Support Assembly.

WARNING

When the NAS627-50 bolt is removed in the following step, the Hoist will be free to rotate. Ensure the Hoist is well supported on both sides to prevent possible injury to personnel and damage to the Hoist and components.

2. Remove the Bolt (NAS627-50), Nut (NAS1291-7) and Washers (NAS1587-7C, under Bolt head), (NAS1587-7, two under Nut) securing the Hoist Support Assembly (412-144-220) to the Tube Assembly (412-153-290). Refer to Figure 1. Discard the Nut and retain the hardware remaining for reinstallation.
3. Carefully slide the Hoist Support Assembly outboard until it is free of the Tube Assembly.
4. Place the Hoist and Hoist Support Assembly on a table or work stand with the Hoist Support pointing up.
5. Remove the lower portion of the Hoist Fairing surrounding the Hoist Socket.
6. Remove the two Bolts, (AN4C36A) two Nuts (NAS1291C4M) and four Washers (AN960C416L) securing the Hoist to the Hoist Support Assembly. Discard the removed hardware.
7. Slide the Hoist Support Assembly out of the Hoist Socket. Record Hoist Support Assembly Serial Number (location shown in Figure 1) in appropriate section of Appendix A.
8. Clean the Hoist Socket and Hoist Support Assembly Sleeve with Isopropyl Alcohol.
9. Apply a thin (1/16 inch) layer of Sealant (MIL-S-8802 TY2 CL 1/2), provided, to the inside diameter and top of the Hoist Socket.
10. Slide the Hoist Support Assembly into the Hoist Socket and install the new Bolts (NAS6204-54), Nuts (1291C4M), and Washers (AN960C416L) provided.
11. Clean up any Sealant squeeze out with Isopropyl Alcohol.
12. Allow the Sealant to cure for 24 hrs prior to continuing with steps 13 through 16.
13. Reinstall the Hoist Fairing removed in step 5.
14. Reinstall the Hoist and Hoist Support Assembly on the aircraft utilizing the hardware retained in step 2 and the Nut (1291-7) provided.
15. Connect Cable Assemblies (412-146-101/-102) to the two connectors mounted just aft of the Hoist Support Assembly.
16. Complete ASB NO. 99075 Compliance Notification Form, provided in Appendix A, and mail or telefax (423-538-8469) to Aeronautical Accessories, Inc.

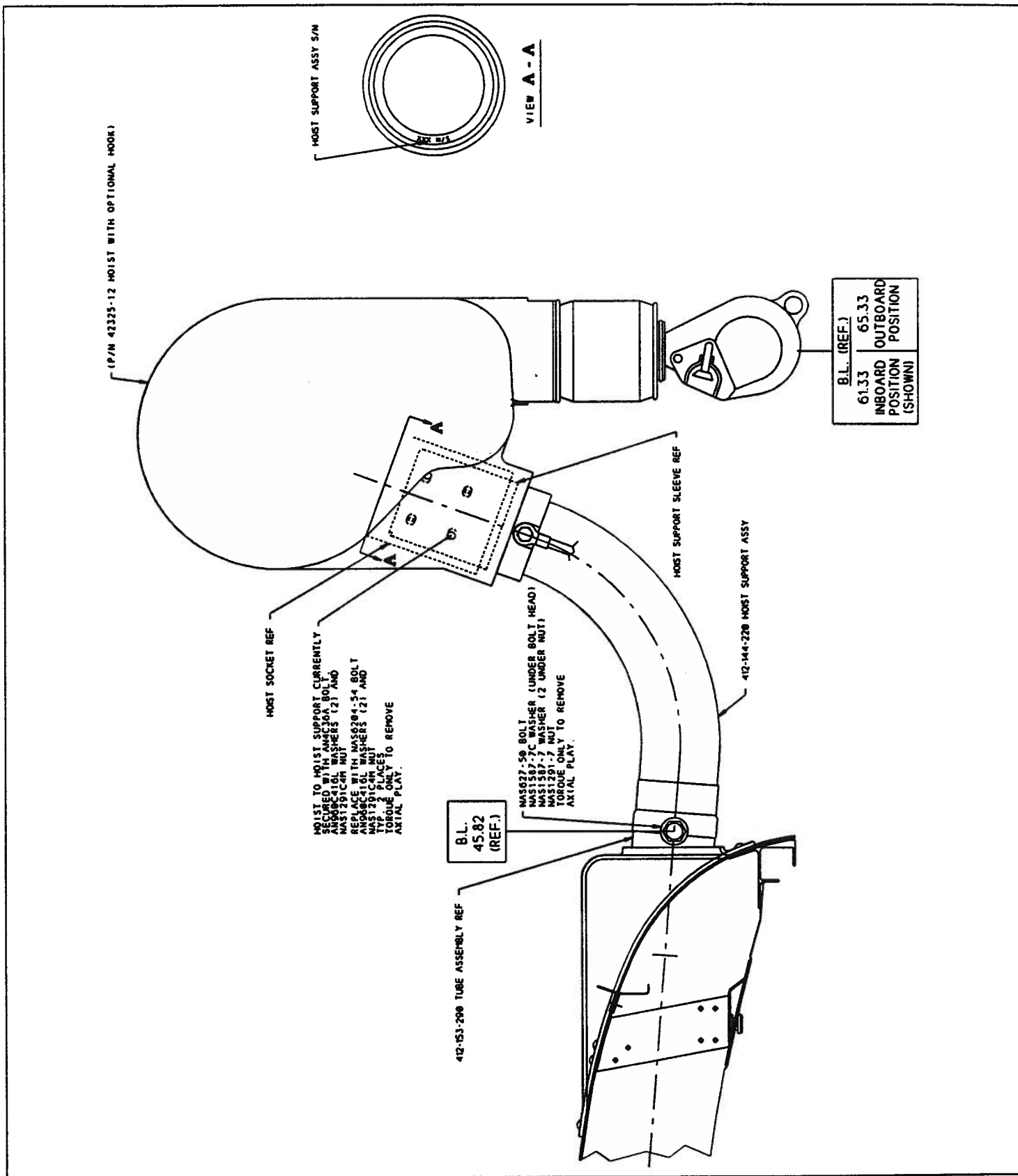


Figure 1

ASB NO 99075 COMPLIANCE NOTIFICATION FORM

Company Name:

Company Address:

Aircraft Registration Number:

Aircraft Serial Number:

Hoist Support Assy (412-144-220) Serial Number (See Figure 1):

Compliance Date:

Signature:

Appendix A

PARTS LIST
Hoist Support Installation
Modification Kit
P/N 412-139-001

<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
_____ 2	NAS6204-54	Bolt
_____ 2	NAS1291C4M	Nut
_____ 1	NAS1291-7	Nut
_____ 4	AN960C416L ALT.- NAS1149C0432R	Washer
_____ 1	CS-3204B1/2	Sealant (6 oz.)

Appendix B