

TECHNICAL BULLETIN

Bell Helicopter **TEXTRON**

A Division of Textron Canada Ltd.

NO. 407-98-9

DATE 4/3/98

PAGE NO. 1 of 8

DATE
REV.

12, 800 Rue de l'Avenir, Mirabel, Quebec J7J 1R4

MODELS AFFECTED: 407

SUBJECT: ENGINE AND FADEC ECU, BETTER ELECTRICAL BONDING.

HELICOPTERS AFFECTED: 407, Serial Numbers 53000 through 53199.
[Helicopter Serial Numbers 53200 and subsequent will have the intent of this bulletin completed before delivery.]

COMPLIANCE: Recommended at the next annual inspection.

DESCRIPTION: Replacement of the ground bonding straps to make the electrical bonding and EMI/RFI protection of the engine electrical and FADEC control systems better.

APPROVAL: The engineering design aspects of this bulletin are Transport Canada approved.

MANPOWER: Approximately 1.0 man-hour is necessary to complete this bulletin. Man-hours are based on hands-on time and can change because of the personnel and facilities available.

WARRANTY: Owners/operators of 407 helicopters who comply with the instructions outlined in this bulletin are eligible for a special 100% warranty credit towards the purchase of the bonding straps and hardware listed in the MATERIAL section of this bulletin.

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To receive this credit:

- Customers must order the listed parts from an approved BHTI spares supply source.
- Comply with the instructions outlined in this bulletin no later than November 30, 1998.
- Send a completed Malfunction Report (MR) to BHT Warranty Administration. A copy of the BHTI invoice referencing the parts used to accomplish this bulletin must be attached to the Malfunction Report.

- NOTE -

Customers who comply with the instructions in this bulletin after November 30, 1998, are **not** eligible for the special warranty credit provisions listed above.

MATERIAL:

The material that follows is necessary to complete this Technical Bulletin and can be procured through your Bell Helicopter Textron Supply Center:

<u>PART NUMBER</u>	<u>NOMENCLATURE</u>	<u>QUANTITY</u>
961114-1	BONDING STRAP	1
961114-2	BONDING STRAP	1
MS21919WCJ8	CLAMP	2
MS21042L3	NUT	5

SPECIAL TOOLS:

None.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

BHT-ELEC-SPM, Chapter 8 – Electrical Bonding and Grounding

PUBLICATIONS AFFECTED:

BHT-407-IPB, Chapter 96, Illustrated Parts Breakdown Manual

ACCOMPLISHMENT INSTRUCTIONS:

1. Prepare the helicopter for maintenance.
2. Get access to the left-hand side of the engine compartment (BHT-407-MM-5, Chapter 53).
3. In the engine compartment, remove the bonding strap, P/N MS25083-7BB15 (Figure 1).
4. Install the new bonding strap P/N 961114-2. Replace the two strap clamps P/N MS21919WCJ3 with the clamps P/N MS21919WCJ8. Use the new nuts P/N MS21042L3 (quantity 4) to attach the new bonding strap and clamps. Refer to Figure 2 for the required hardware installation sequence and clamp installation at each location.
5. Remove the forward transmission fairing to get access to the FADEC ECU installed on the transmission deck (BHT-407-MM-5, Chapter 53).
6. Remove the bonding strap P/N MS25083-2BB6, installed between the FADEC ECU and the transmission deck (Figure 3).
7. Install the new bonding strap P/N 961114-1. Use the new nut P/N MS21042L3 to attach the bonding strap to the transmission deck. Refer to Figure 4 for the required hardware installation sequence at each location.
8. Make an entry in the helicopter historical records to show that you have completed this bulletin.

9. Make an entry in the Record of Technical Bulletins in the Maintenance Manual and the Illustrated Parts Breakdown to show that you have completed this bulletin.

10. Prepare the helicopter for flight.

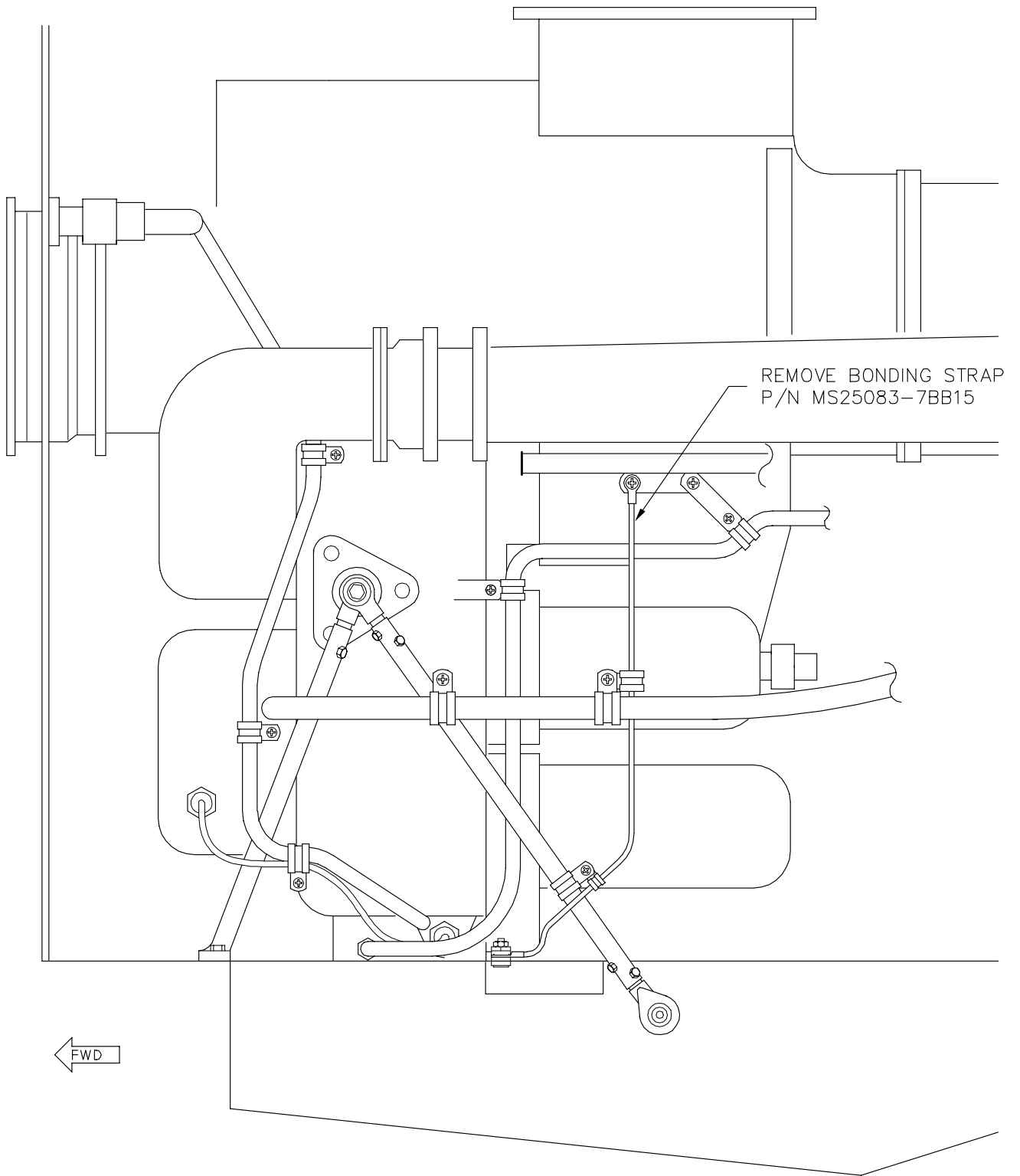
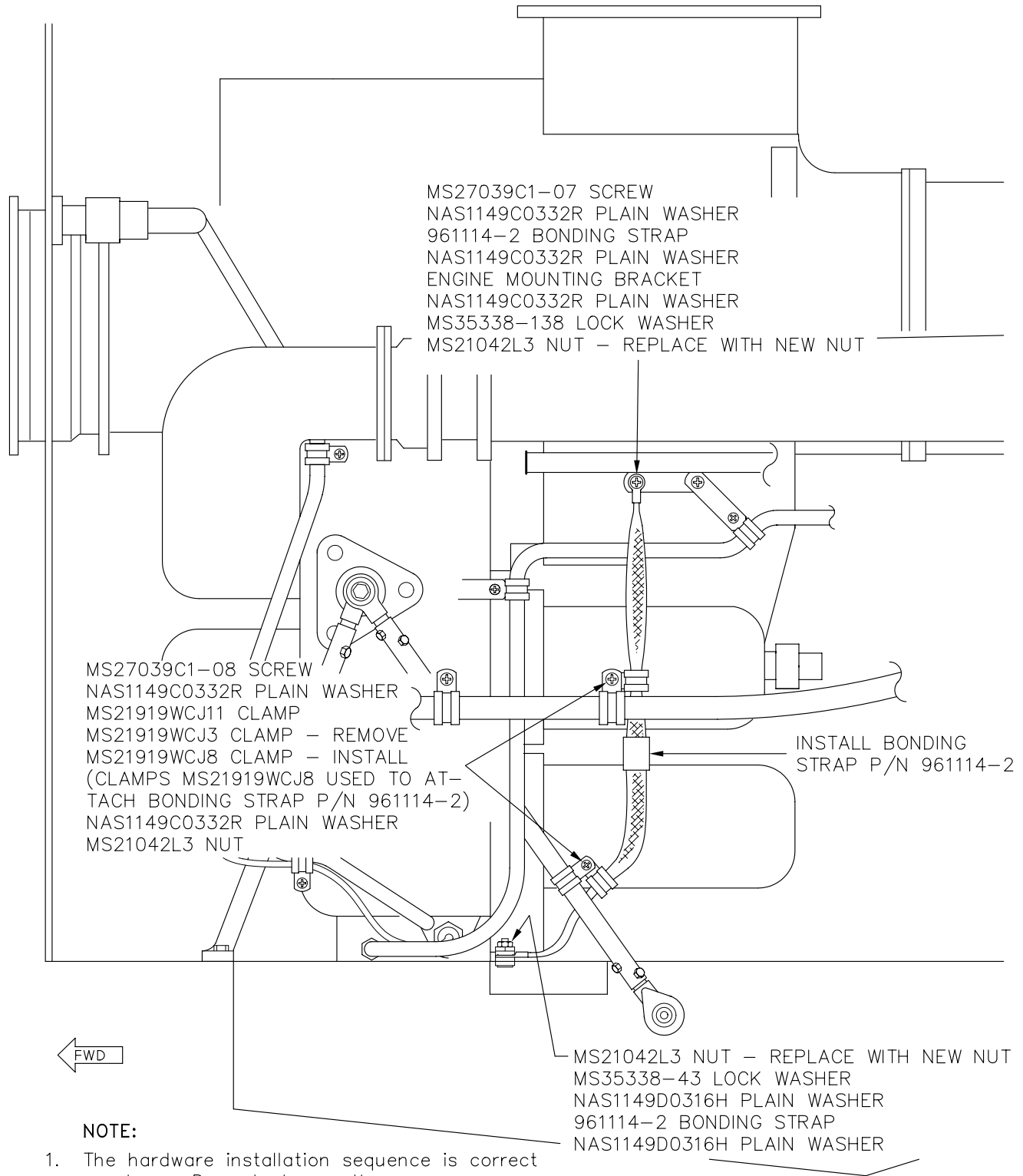


Figure 1.



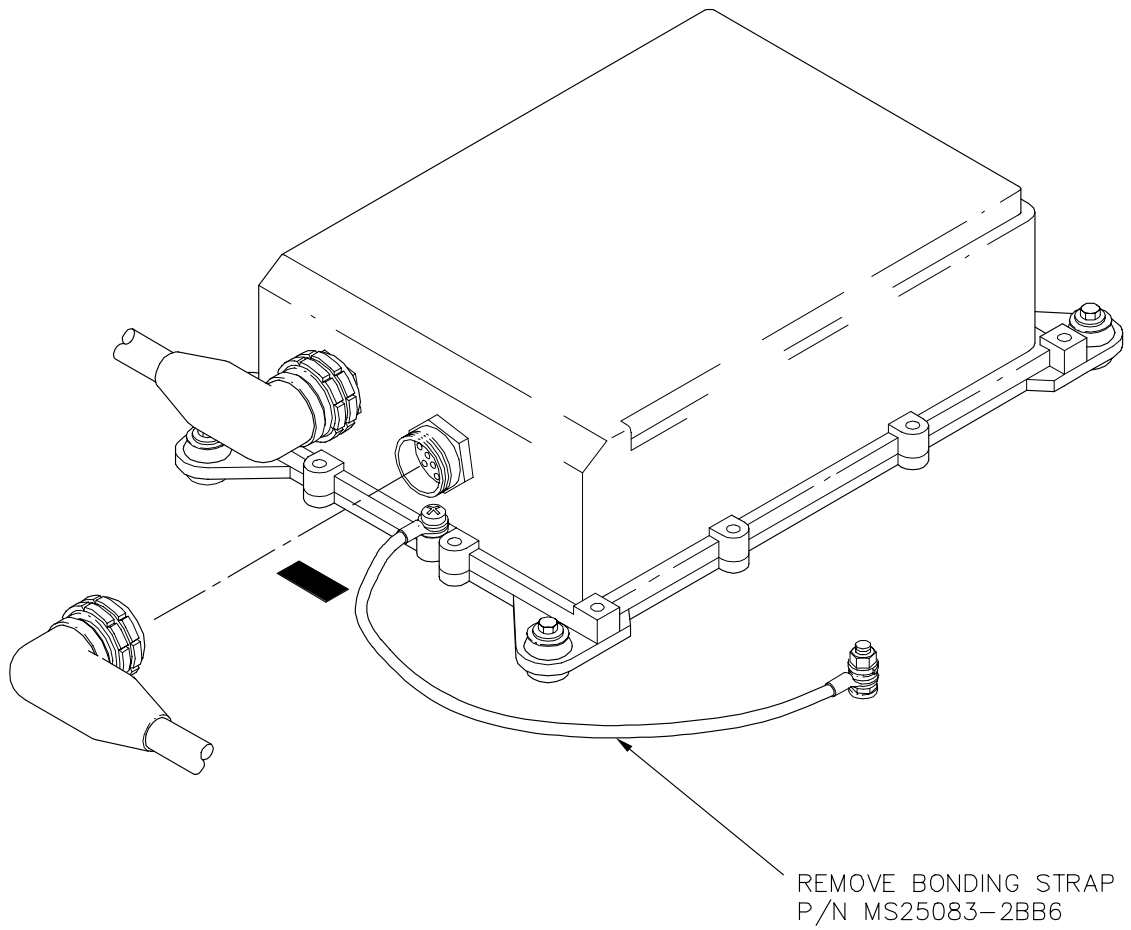
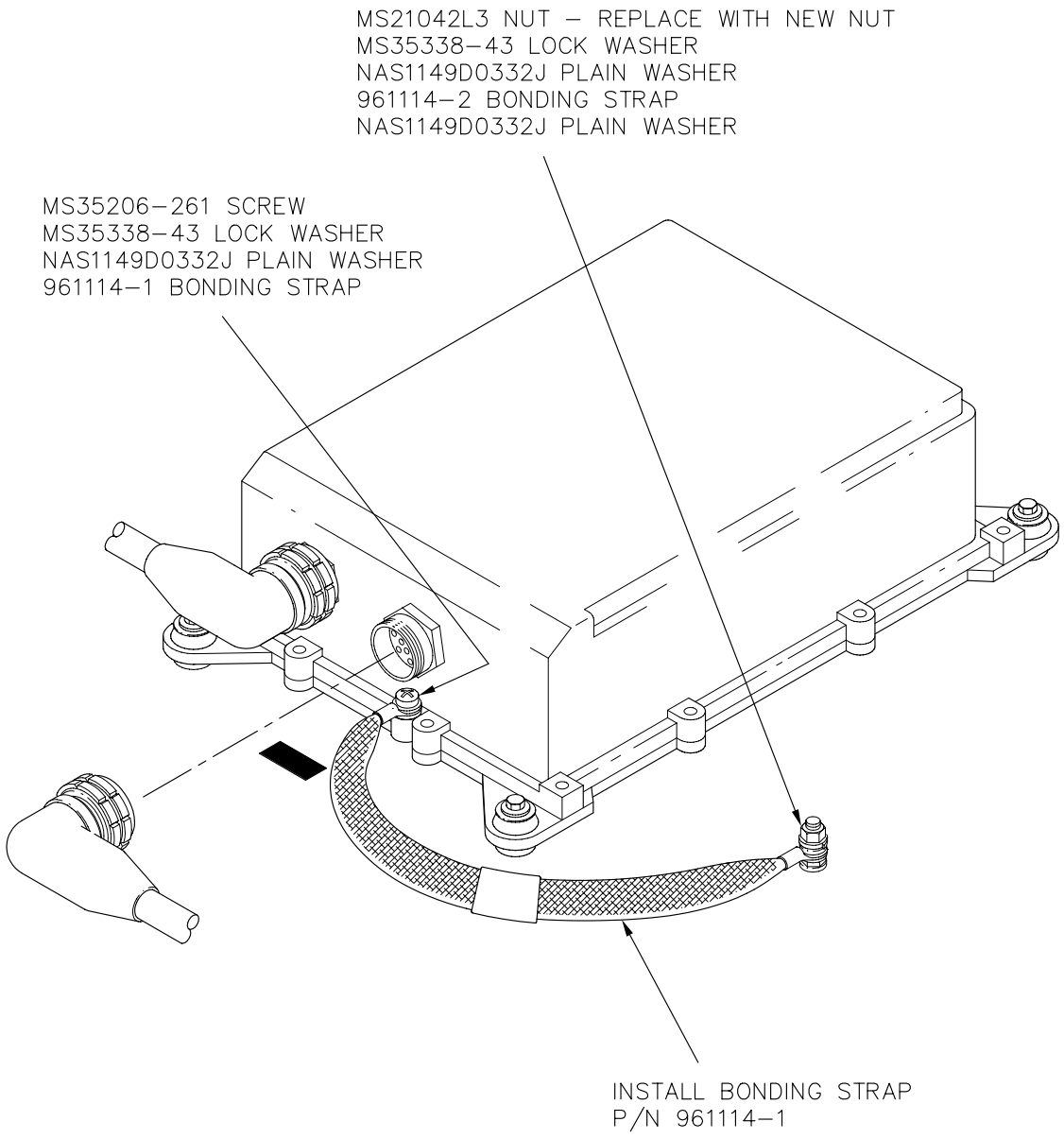


Figure 3.



NOTE:

1. The hardware installation sequence is correct as shown. Do not change the sequence.

Figure 4.