



SERVICE BULLETIN

DATE: 07 FEBRUARY 2000

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MANDATORY

TORQUE PRESSURE TRANSDUCER HIGH INTENSITY RADIATED FIELDS (HIRF) PROTECTION MODIFICATION

* Supersedes Service Bulletin 600N-018, dated 08 October 1998. Expanded aircraft effectivity to ensure an accurate torque indication system for all affected helicopters and corrected connector part number. Aircraft which have complied with SB600-018 have met the intent of this revision.

1. PLANNING INFORMATION

A. Aircraft Affected:

All 600N helicopters, serial number RN003 thru RN047.

B. Assembly/Components Affected By This Notice:

Torque and TOT display unit to the Torque Transducer to the Voice Warning box interconnect wiring, and Torque Transducer, P/N PX9606.

C. Reason:

To prevent possible inaccuracy of the torque indicating system caused by high intensity radiated fields and to comply with JAA Interim HIRF Policies INT/POL/27 & 29/1, Issue 2, dated 01 June 1997.

D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to the modification of interconnect wiring for the torque indicating system to prevent possible inaccurate indications and to comply with JAA Interim HIRF Policies.

E. Time of Compliance

The requirements of this Bulletin shall be accomplished at the next major inspection or as parts become available, or no later than 31 January 2001, or prior to registering the helicopter in a country that requires compliance to the JAA Interim HIRF Policies (JAA INT/POL/27 & 29/1, Issue 2, dated 01 June 1997 or later revision), whichever occurs first.

F. FAA Approval:

The technical design aspects of this Bulletin are FAA Approved.

G. Manpower:

Eight (8) manhours.

H. Interchangeability:

None

I. Disposition of Parts Removed:

The removed Torque Pressure Transducer is the same part number as the Engine Oil Pressure Transducer, and may be retained as a spare engine oil pressure transducer.

J. Points of Contact

For further assistance, contact your local MDHI Field Service Representative (refer to the latest revision of the "At Your Service" handbook for address and telephone numbers) or contact the Field Service Department at MDHI, Mesa, Arizona. Telephone 1-800-388-3378 or (480) 891-6342. DATAFAX: (480) 891-6782.

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K. Material/Part Availability:

Contact MDHS Warranty and Repair Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Transducer, Pressure, Torque	PX10126	1	MDHS
Wire, Shielded, Single Conductor	M27500-22SD1T23 (ref. RM #011234)	272 in (691 cm)	MDHS
Wire, Shielded, Two Conductor	M27500-22SD2T23 (ref. RM #011129)	212 in (539 cm)	MDHS
Jumper, Shielding	M83519/2-8	13	MDHS
Connector (P23)	MS27484T8F35S	1	MDHS
Backshell (P23)	M85049/17-08N02	1	MDHS
Contact, Pin (J1201)	M39029/58-360	3	MDHS
Contact, Socket (P19)	M39029/32-259	1	MDHS
Contact, Socket (TB200-6)	M39029/22-191	3	MDHS
Contact, Socket (P23)	M39029/57-354	4	MDHS

L. Warranty Policy:

Parts will be provided at no cost. Eight (8) hours of labor will be provided to compensate for actual labor hours, not to exceed eight (8) hours.

M. Tooling:

Tools listed in this table may be purchased from the sources in the table notes or provided on loan from Boeing. Contact your Field Service Representative to arrange for loaner tool. (Ref. **1.J. Points of Contact**).

REQUIRED TOOLS FOR ELECTRICAL TERMINATIONS					
Item No.	Availability (Ref. Note:)	Tool Frame Part No.	Turret Part No.	Positioner Part No.	Insertion/Extraction Part No.
5	(1)(3) (1) (1)(2)(3) (1)(2)(3)	M22520/1-01	M22520/1-02	N/A	DAK/DRK 20 or M81868/17-09 Insert M81969/19-07 Extract
6	(1) (1)(2)(3)	M22520/2-01	K330-3	86-19	MS3160-20 or 81515-23
	(1)(3)	M22520/7-01	M22520/7-11	N/A	

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REQUIRED TOOLS FOR ELECTRICAL TERMINATIONS (Cont.)					
Item No.	Availability (Ref. Note:)	Tool Frame Part No.	Turret Part No.	Positioner Part No.	Insertion/Extraction Part No.
7	(1)(3) (1) (1)(2)(3)	M22520/2-01	M22520/2-09	N/A	DAK/DRK 95-22M or M81469/14-01
8	(1)(3)	M22520/7-01	M22520/7-06	N/A	M81969/14-01

NOTE:

- (1) Daniel’s Manufacturing, phone number (407) 855-6161.
- (2) Richie Electrical, phone number (800) 966-1161 and (602) 831-1318.
- (3) MDHS Warranty and Repair Dept.

N. Weight and Balance:

N/A

O. Electrical Load Data:

N/A

P. Other Publications Affected:

Basic Handbook of Maintenance Instruction (CSP-HMI-3).

2. ACCOMPLISHMENT INSTRUCTIONS

(Ref. Figure 1 and Figure 2)

A. Modify Fuselage Wire Harness:

NOTE:

- Do Not heat shrink any shield jumpers until all jumpers at that location are in place.
- Route wires and remove excessive length prior to installing shields and terminations.
- Route and secure new wires with existing wire harnesses.

- (1). Access P23 and remove existing connector.
- (2). Cut the shield jumper pigtail from the shield sleeve at J1201-50. Leave the pigtail attached to the shield sleeve at J1201-51.
- (3). Replace existing E1258B22 with M27500-22SD2T23 two conductor shielded wire.
- (4). Replace existing torque pressure transducer P/N PX9606 with new P/N PX10126 torque pressure transducer (Ref. CSP-HMI-2).
- (5). Terminate new E1258B22 with M39029/58-360 (J1201) pins (tool item no.7), M39029/57-354 (P23) sockets (tool item no.8) and install M83519/2-8 shield jumpers.
- (6). At J1201 insert the white wire into J1201-49 and the blue wire into J1201-50.
- (7). Insert jumper from J1201-51 into new shield sleeve at J1201-50 and heat shrink shield sleeve.

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- (8). At P23 place M85049/17-08N02 backshell over E1258B22 and shield jumper.
- (9). At P23 insert the white wire into P23-1 and the blue wire into P23-2.
- (10). Replace existing E1259B22 with M27500-22SD1T23 single conductor shielded wire.
- (11). Terminate new E1259B22 with M39029/57-354 (P23) socket (tool item no.8).
- (12). At P23 insert E1259B22 through M85049/17-08N02 backshell.
- (13). At P23 install M83519/2-8 shield jumper onto E1259B22, insert conductor into P23-3 and daisy chain shield jumper with shield of E1258B22.
- (14). Using previously removed 24 AWG single conductor wire, fabricate a shield jumper pigtail of sufficient length to jumper the shield on E1259B22 and P23-4.
- (15). At P23 terminate fabricated shield jumper with M39029/57-354 socket (tool item no.8) and insert into P23-4.
- (16). Insert remaining end of fabricated shield jumper into shield sleeve on E1259B22.
- (17). At P23 ensure all shield jumpers are in place and heat shrink shield sleeves.
- (18). Terminate the shield jumper from E1258B22 into the shield termination area of P23 backshell.
- (19). Terminate new E1259B22 with M39029/22-191 (TB200) socket (tool item no.6) and M83519/2-8 shield jumper.
- (20). Insert E1259B22 into TB200-6-R.
- (21). Replace existing E1259BBB22 with M27500-22SD1T23 single conductor shielded wire.
- (22). Terminate new E1259BBB22 with M39029/22-191 (TB200) socket (tool item no.6) and M39029/32-259 (P19) socket (tool item no.5).

NOTE: Shield is not terminated on E1259BBB22 at P19.

- (23). Install M83519/2-8 shield jumper onto E1259BBB22 at TB200.
- (24). At TB200 insert E1259BBB22 into TB200-6-S.
- (25). At P19 insert E1259BBB22 into P19-K
- (26). Replace existing E1259BB22 with M27500-22SD1T23 single conductor shielded wire.
- (27). Terminate new E1259BB22 with M39029/22-191 (TB200) socket (tool item no.6) and M39029/58-360 (J1201) pin (tool item no.7).

NOTE: Shield is not terminated on E1259BB22 at J1201.

- (28). Install M83519/2-8 shield jumper onto E1259BB22 at TB200.
- (29). At TB200 insert E1259BB22 into TB200-6-N.
- (30). At J1201 insert E1259BB22 into J1201-65
- (31). At TB200 ensure shield jumpers from TB200-6-S, R, and N are daisy chained together and heat shrink shield sleeves.

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B. Modify Console Wire Harness:

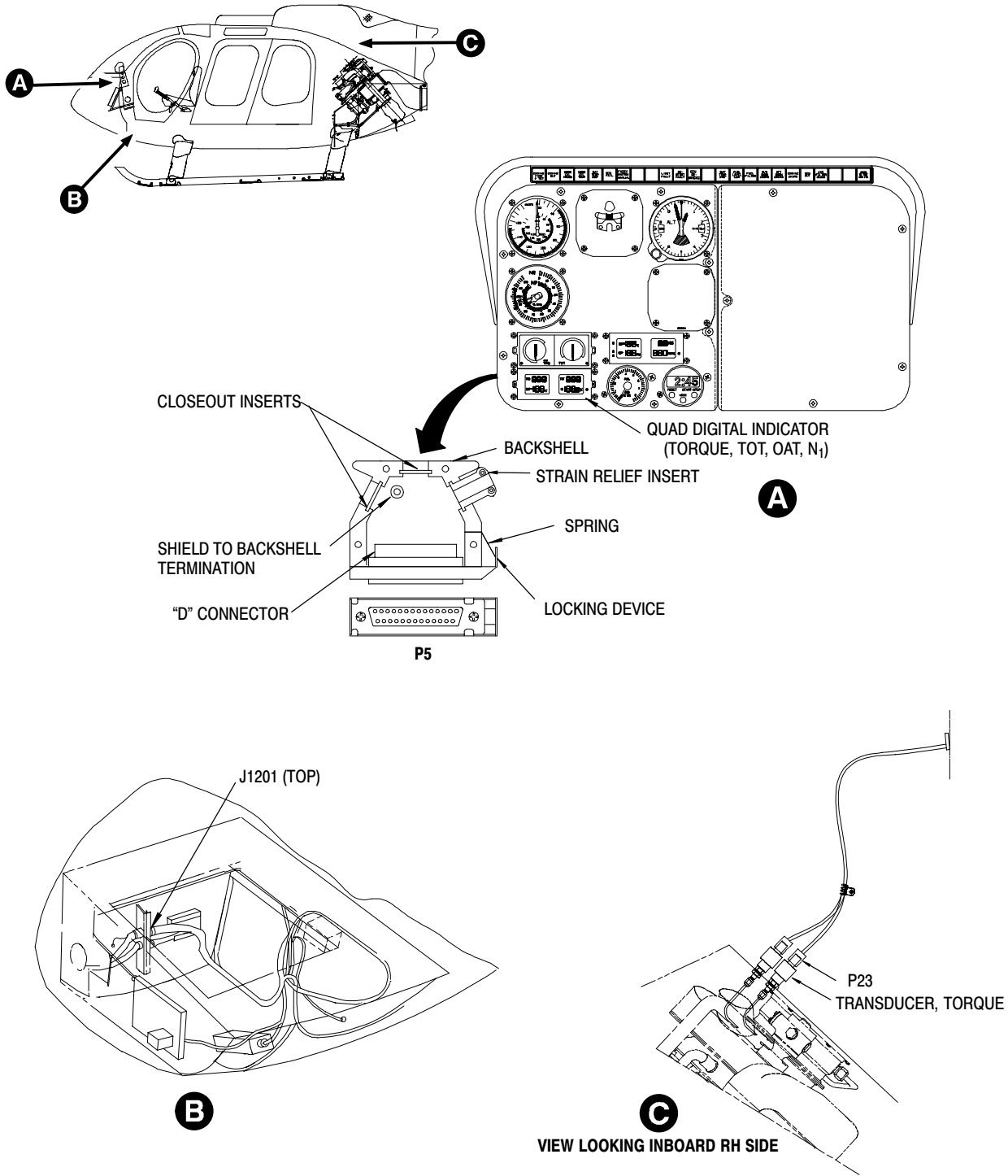
- (1). Disassemble P5 and Install M83519/2-8 shield jumpers onto the shields of P5-3 and P5-4.
- (2). Daisy chain shield jumpers from P5-3, P5-4, and P5-6 together and heat shrink shield sleeves.
- (3). Reassemble P5.
- (4). Close all previously opened access panels.
- (5). Scrap removed parts except transducer which can be retained as a spare engine oil pressure transducer.
- (6). Record compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book.

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Figure 1. Component Locator

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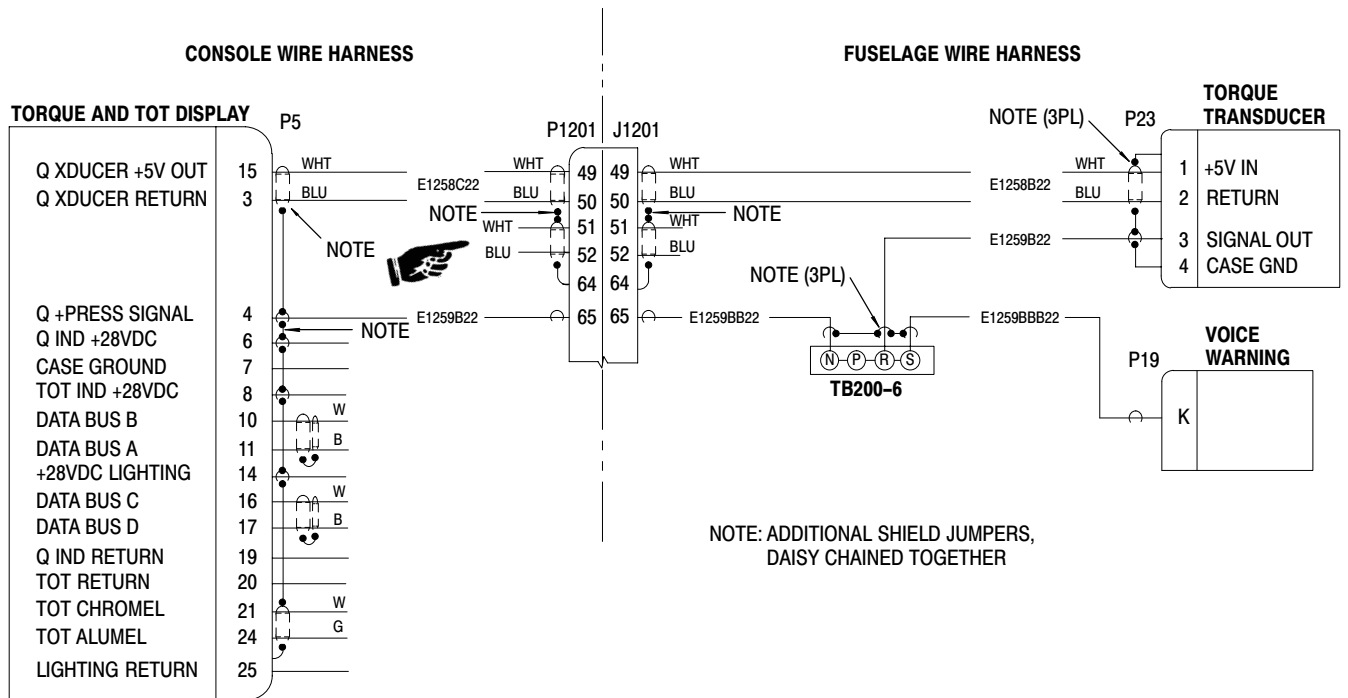
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Figure 2. Wiring Modification, Torque Pressure Transducer

