



SERVICE BULLETIN

DATE: 14 AUGUST 2002
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INTEGRATED INSTRUMENT DISPLAY SYSTEM (IIDS) TEST

1. PLANNING INFORMATION

A. Aircraft Affected:

All MD900 Helicopters equipped with an Integrated Instrument Display System Assembly listed below.

B. Assembly/Components Affected By This Notice:

Integrated Instrument Display System Assembly (P/N 900A3720002-115, -117, -119, -121).

C. Reason:

To verify the implementation of a factory modification of the Integrated Instrument Display (IIDS), by performing a continuity test. An IIDS that does not pass the continuity test must be returned for repair. Replacement IIDS will be available on a rotatable pool basis.

Failure to comply with this Bulletin may result in an IIDS failure, which could result in an inability to monitor engine and aircraft operating information and caution/warning indicators.

D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to performing a continuity test between pins at unit connectors, J4 and J5, and replacement of the IIDS, if required.

E. Time of Compliance

The requirements of this Bulletin shall be accomplished before the next 10 hours of flight after receipt of this Bulletin.

F. FAA Approval:

The technical design aspects of this Bulletin are FAA Approved.

G. Manpower:

1.0 man-hour.

H. Interchangeability:

None

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I. Material/Part Availability:

Contact MDHI Warranty and Repair Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Integrated Instrument Display System (Used with PW206A engine)	900A3720002-1 15/-1 17	1	MDHI
Integrated Instrument Display System (Used with PW206E engine)	900A3720002-1 19	1	MDHI
Integrated Instrument Display System (Used with PW207E engine)	900A3720002-121	1	MDHI

J. Warranty Policy:

MDHI will credit operators with labor warranty (spares credit) not to exceed 1.0 hour for performing the IIDS continuity test. To receive this credit, operators must complete and return the attached Compliance Recording Form. If the IIDS is unserviceable, MDHI Warranty and Repair Department will provide a replacement IIDS at no cost to the operator. The affected IIDS must be returned with a completed Service and Operations Report (SOR) form to MDHI Warranty and Repair Department within five days of removal.

K. Tooling:

N/A

L. Weight and Balance:

N/A

M. Electrical Load Data:

N/A

N. Other Publications Affected:

N/A

O. Referenced Publications

CSP-900RMM-2, Rotorcraft Maintenance Manual
 CSP-900RMM-2 S1, Ground Based Maintenance Computer (GBMC) User Guide-PW206A
 CSP-900RMM-2 S2, Ground Based Maintenance Computer (GBMC) User Guide-PW206E
 CSP-900RMM-2 S3, Ground Based Maintenance Computer (GBMC) User Guide-PW207E

2. ACCOMPLISHMENT INSTRUCTIONS

A. IIDS Continuity Test

- (1). Remove IIDS from helicopter (Ref. CSP-900RMM-2, Section 95-30-00, Integrated Instrument Display System (IIDS) Removal).

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- (2). Check Mod Record Plate on side of IIDS.
 - (a). If mod “2” is scratched off of plate, testing is not required. Reinstall IIDS in helicopter (Ref. CSP-900RMM-2, Section 95-30-00, Integrated Instrument Display System (IIDS) Installation)
 - (b). If mod “2” is not scratched off of plate, proceed as follows:

NOTE: Perform the following test using a Fluke 77 (or equivalent) **digital multimeter set to DIODE.**

- (3). Measure continuity between J4-q and J5-q at back of IIDS.
- (4). Allow meter to stabilize and record reading after 10 seconds.
- (5). Reverse meter leads, allow meter to stabilize and record reading after 10 seconds.
- (6). If either or both measurements are less than 1.2V, IIDS is not serviceable and must be returned for repair per paragraph B. “IIDS Replacement”, below.
- (7). If both measurements are 1.2V or greater, proceed as follows:
 - (a). Scratch off mod “2” from Mod Record Plate on side of IIDS.
 - (b). Reinstall IIDS in helicopter (Ref. CSP-900RMM-2, Section 95-30-00, Integrated Instrument Display System (IIDS) Installation).

B. IIDS Replacement

NOTE: Prior to replacement, the IIDS must be reinstalled and the data downloaded.

- (1). Reinstall IIDS in helicopter (Ref. CSP-900RMM-2, Section 95-30-00, Integrated Instrument Display System (IIDS) Installation), except do not restore battery power to helicopter, only external power may be used.
- (2). Connect helicopter to external power (Ref. CSP-900RMM-2, Section 96-00-00, Applying External Power).
- (3). Perform Downloading Files From The IIDS procedure (Ref. Ground Based Maintenance Computer (GBMC) User Guide).
- (4). Remove external power from helicopter (Ref. CSP-900RMM-2, Section 96-00-00, Removing External Power).
- (5). Remove IIDS from helicopter (Ref. CSP-900RMM-2, Section 95-30-00, Integrated Instrument Display System (IIDS) Removal).
- (6). Return removed IIDS for repair per paragraph 3. “Disposition of Parts Removed”, below.
- (7). Install replacement IIDS in helicopter (Ref. CSP-900RMM-2, Section 95-30-00, Integrated Instrument Display System (IIDS) Installation).
- (8). Perform Uploading Files To The IIDS procedure (Ref. GBMC User Guide).

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3. DISPOSITION OF PARTS REMOVED

Fax a copy of the completed Service and Operations Report (SOR) form to MDHI Warranty Repair Dept. DATAFAX: (480) 346-6814.

Ship removed IIDS along with the (original) completed Service and Operations Report (SOR) form to MDHI at address below.

Attention: Dave Hagstrom
MD Helicopters, Inc.
4555 E. McDowell Road
Mesa, AZ 85215-9734

4. COMPLIANCE RECORD

Record compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book. Complete the attached Compliance Recording Form and return to MDHI.

5. 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) 346-6387. DATAFAX: (480) 346-6813.

For warranty and repair information, contact the Warranty Administrator. Telephone: 1-800-388-3378 or (480) 346-6452. DATAFAX: (480) 346-6814.

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Compliance Recording Form

Customer/Operator Name

Aircraft Serial No.

IIDS Serial No.

Helicopter Total Time

IIDS Continuity Test

Date: _____ **Results:** _____

Signature of Person Performing Test

Date of IIDS Replacement

Signature of Person Confirming IIDS Replacement

**FAX this form to MDHI (480) 346-6813 or
Email to ServiceEngineering@mdhelicopters.com**

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