



SERVICE BULLETIN

DATE: 15 SEPTEMBER 2006
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* Supersedes SB900-083R1, dated 9 October 2002. Revised Aircraft Affected. Aircraft that are in compliance with SB900-083R1 meet the intent of this revision.

INTEGRATED INSTRUMENT DISPLAY SYSTEM (IIDS) EEC LIGHT WIRING MODIFICATION

1. PLANNING INFORMATION

A. Aircraft Affected:

MD900 Helicopters, serial numbers 900-00088 thru 900-00110, 900-00113 and 900-00114.

B. Assembly/Components Affected By This Notice:

Electrical Load Center Assembly, A620 (P/N 900E2750620-131), Electrical Load Center Wire Harness, W620 (P/N) 900E2760620-127).

C. Reason:

The IIDS Electronic Engine Control (EEC) lights unintentionally blink when power is supplied by the essential bus. Failure to comply with this Bulletin may result in pilot distraction during dual generator failure emergency procedures.

D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to modification of the wiring to ensure the correct signals are applied to the IIDS when the Electrical Master Power switch is in the ESNTL position.

E. Time of Compliance

The requirements of this Bulletin shall be accomplished at the next scheduled inspection or within one year after the issue date of this Bulletin.

F. FAA Approval:

The technical design aspects of this Bulletin are FAA Approved.

G. Manpower:

2.0 man-hours

H. Interchangeability:

None

I. Material/Part Availability:

The parts listed below are included in Kit (P/N SBK-005). Contact MDHI Warranty and Repair Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Wire, Single Cond, 24 AWG	M22759/35-24-9 (MRM005659)	9 FT	MDHI
Contact, Socket	M39029/22-192	4	MDHI

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REPLACEMENT PARTS/SUPPLIES (Cont.)			
Nomenclature	Part No.	Qty.	Source
Splice, Elec, Crimp, Red	M81824/1-1	2	MDHI
Contact, Interface, 16 AWG to 20-24 AWG	1662-202-1631	2	MDHI
Sleeve, Heat Shrink, Wht, 0.24 Dia X 2.0 Inch	M23053/16-001-0 (MRM011117)	2 FT	MDHI

WIRE BUILD TABLE						
Wire No.	Wire Nomenclature	Part No.	Wire Length	Termination		Source
				A	B	
1	E100L24 EMI 3	M22759/35-24-9	AR	1662-202-1631	M39029/22-192	MDHI
2	E100M24 EMI 3	M22759/35-24-9	AR	M81824/1-1	M39029/22-192	MDHI
3	E99L24 EMI 3	M22759/35-24-9	AR	1662-202-1631	M39029/22-192	MDHI
4	E99M24 EMI 3	M22759/35-24-9	AR	M81824/1-1	M39029/22-192	MDHI

J. Warranty Policy:

MDHI Warranty and Repair Department will provide parts at no cost to the operator. MDHI will also credit those affected operators with labor warranty (spares credit) not to exceed 2.0 hours.

K. Tooling:

N/A

L. Weight and Balance:

N/A

M. Electrical Load Data:

N/A

N. Other Publications Affected:

Rotorcraft Maintenance Manual (CSP-900RMM-3)

2. ACCOMPLISHMENT INSTRUCTIONS

A. Modification of A620 Electrical Load Center

(Ref. Figure 1)

- (1). Remove A620 left cover and lower circuit breaker panel (Ref. CSP-900RMM-3, Section 96-30-00, Electrical Load Center).
- (2). Locate wire segment between A620 J4-ZB and A620 K7-7 X2.

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- (3). Install splice A620 K7-7 SP1 on wire segment within 6 in. (152.4 mm) of A620 K7-7. Insert wire segment from A620 J4-ZB and wire segment from A620 K7-7 X2 into splice prior to crimping.
- (4). Install wire E99M24 EMI 3 from A620 K7-7 SP1 to A620 TB1-9/10 K.
- (5). Locate wire segment between A620 J4-ZC and A620 K7-9 X2.
- (6). Install splice A620 K7-9 SP1 on wire segment within 6 in. (152.4 mm) of A620 K7-9. Insert wire segment from A620 J4-ZC and wire segment from A620 K7-9 X2 into splice prior to crimping.
- (7). Install wire E100M24 EMI 3 from A620 K7-9 SP1 to A620 TB1-9/10 J.
- (8). Install wire E99L24 EMI 3 from A620 K7-7 B3 to A620 TB1-9/10 E.
- (9). Install wire E100L24 EMI 3 from A620 K7-9 B3 to A620 TB1-9/10 D.
- (10). Install sleeving over splices A620 K7-7 SP1 and A620 K7-9 SP1 for chafe protection.
- (11). Tie added wires into A620 assembly electrical load center wire harness W620.
- (12). Install A620 left cover and raise circuit breaker panel (Ref. CSP-900RMM-3, Section 96-30-00, Electrical Load Center).

B. Post Modification Check

- (1). Ensure both **ENGINE CONTROL** rotary switches are **OFF**.
- (2). Position both throttles to **NORMAL** detent position.
- (3). Select **ELECTRICAL MASTER POWER** switch to **BAT/EXT**.
- (4). Confirm that Electrical Load Center **L IGNTR**, **R IGNTR**, **L DETENT** and **R DETENT** circuit breakers (CB) are pressed in.
- (5). Press **EEC RESET** on collective head.
- (6). Confirm that **EEC**, **MAN**, and **FAIL** do not display on IIDS.
- (7). Rotate left throttle out of **NORMAL** detent.
- (8). Pull Electrical Load Center **L IGNTR** CB and **R IGNTR** CB.
- (9). Confirm IIDS displays **EEC MAN** for left engine, and nothing for right engine.
- (10). Pull Electrical Load Center **L DETENT** CB and **R DETENT** CB.
- (11). Confirm that **EEC**, **MAN**, and **FAIL** do not display on IIDS.
- (12). Rotate right throttle out of **NORMAL** detent.
- (13). Confirm that **EEC**, **MAN**, and **FAIL** do not display on IIDS.
- (14). Rotate left throttle back to **NORMAL** detent.
- (15). Confirm that **EEC**, **MAN**, and **FAIL** do not display on IIDS.
- (16). Press in Electrical Load Center **L DETENT** and **R DETENT** CBs.

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- (17). Confirm IIDS displays nothing for left engine and **EEC MAN** for right engine.
- (18). Rotate right throttle back to **NORMAL** throttle position.
- (19). Confirm IIDS displays nothing for left engine and **EEC MAN** for right engine.
- (20). Rotate right throttle out of **NORMAL** detent.
- (21). Press **EEC RESET** on collective head.
- (22). Confirm IIDS displays nothing for left engine and **EEC** blinks for right engine.
- (23). Rotate right throttle back to **NORMAL** detent.
- (24). Confirm that **EEC**, **MAN**, and **FAIL** do not display on IIDS.
- (25). Press in Electrical Load Center **L IGNTR** and **R IGNTR** CBs.
- (26). Repeat Steps (7) thru (25), switching all "left" to "right" and "right" to "left."

3. DISPOSITION OF PARTS REMOVED

Scrap

4. COMPLIANCE RECORD

Record compliance to this Service Bulletin in the Compliance Record section of the helicopter Log Book.

5. POINTS OF CONTACT

For further assistance, 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.

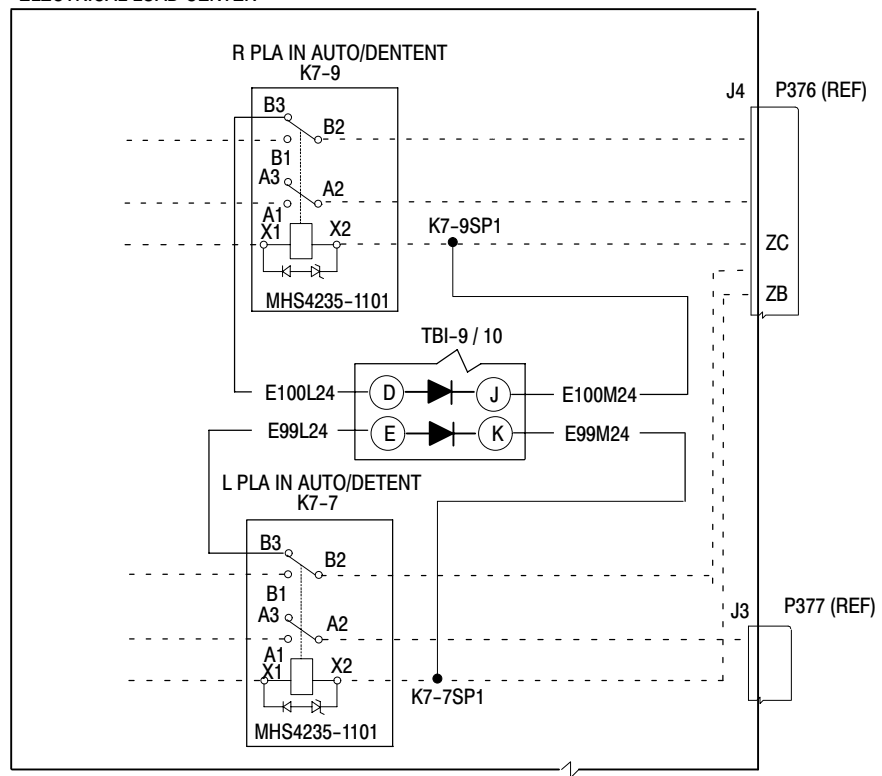
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A620
ELECTRICAL LOAD CENTER



NOTES: DASHED WIRE SEGMENTS ARE EXISTING WIRES.

9B95-170B

Figure 1. IIDS Signal Correction Modification Wiring Diagram

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