



TECHNICAL BULLETIN

DATE: 13 NOVEMBER 2001

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JAR OPS 3 MODIFICATION

* Supersedes TB900-014R3, dated 15 March 2001. Revised to reflect the change in nomenclature for part number 90005720002 and the title change of Technical Bulletin TB900-010R1, due to the part number change for the Integrated Instrument Display System (IIDS). Aircraft which have complied with previous revisions of this Bulletin meet the intent of this revision.

1. PLANNING INFORMATION

A. Aircraft Affected

All MD900 helicopters serial number 00010 thru 00051 equipped with Pratt & Whitney PW206A engines.

B. Assembly/Components Affected By This Notice:

Attitude Gyro #1 Circuit Breaker Installation P/N 900A7701149-101; Wire Harness Installation, W451, Attitude Gyro #1 P/N 900A7711049-101; Attitude Gyro #1 Instrument Installation P/N 900A7701049-101; MOD Increased OEI Torque Limit P/N 90005720002; Hover/Landing Light Installation, External P/N 900E5750029; Fire Extinguisher Configuration P/N 9000723000-101; and Modification Take Off Timer P/N 900E5750028.

C. Reason:

This Bulletin has been released to identify and authorize the helicopter modifications necessary to meet JAR OPS 3 operations. Revision 4 is released to reflect changes in the Integrated Instrument Display System (IIDS) part numbers.

D. Description:

Procedures in this Bulletin provide owners and operators with information pertaining to modifying their rotorcraft for JAR OPS 3 operations. JAR OPS 3 provides operating rules for day and night VFR Category A operations as defined by JAR OPS 3 operating rules.

NOTE: Use the latest revision of the Service and Technical Bulletins referenced below.

For JAR OPS 3, the operator must;

- Ensure the items listed below have been accomplished prior to installation of GO/NO GO Timer modification.
- ● Install the #1 Attitude Gyro System in accordance with CSP-900RMM-3.
- ● Install the Increased One Engine Inoperative (OEI) Torque Limit Modification in accordance with TB900-010R1.

NOTE: There are two different external hover/landing light installations. The 900E5750029 installation is the only installation acceptable for the requirements of this Bulletin.

- ● Perform the 900E5750029 External Hover/Landing Light Modification in accordance with TB900-011.
- ● Install the Fire Extinguishing System in accordance with TB900-012R1.
- ● Comply with SB900-063 Mechanical Engine Control System Modification.
- ● Comply with SB900-069R1 A612 Forward Interconnect Panel Modification.

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- Perform the GO/NO-GO Timer Modification in accordance with this Bulletin.
- Operate the rotorcraft in accordance with the latest revision of Rotorcraft Flight Manual CSP-900RFM-1 and JAR OPS 3 Supplement CSP-900RFM-S2.

E. Manpower:

Fifty (50) manhours for this Bulletin.

F. Time of Compliance

Optional, at the discretion of the owner/operator.

G. Classification:

Compliance with this Bulletin is a major alteration.

H. 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.

I. Interchangeability:

None

J. Material/Part Availability:

Contact MDHI Part Sales Dept.

REPLACEMENT PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
MOD Increased OEI Torque Limit	90005720002	1	MDHI
Attitude Gyro #1 Installation	900A7701049-101	REF	MDHI
1) Attitude Gyro	504-0028-906	1	MDHI
2) Screw, Machine	MS51957-34B	4	MDHI
3) Washer, Flat	NAS620C6LP	4	MDHI
Wire Harness Installation, W451, Attitude Gyro #1	900A7711049-101	REF	MDHI
1) Wire Harness	900A2710451-103	1	MDHI
2) M39029/22-192	Contact, Socket	2	MDHI
3) M39029/22-191	Contact, Socket	1	MDHI
Circuit Breaker Installation, Attitude Gyro #1	900A7701149-101	REF	MDHI
1) Circuit Breaker, Trip Free, 5A	MS3320-5	1	MDHI
2) Terminal, Lug, Crimp, Insulated	MS25036-149	3	MDHI



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REPLACEMENT PARTS/SUPPLIES (Cont.)			
Nomenclature	Part No.	Qty.	Source
3) Wire Electrical	M22759/43-22-9	60 in (152.4 cm)	MDHI
Modification, Take Off Timer	900E5750028	REF	MDHI
1) Resistor, 510 OHM, 10%, 1/2 Watt	10N556	1	MDHI
2) Resistor, 220 OHM, 10%, 1/2 Watt	10N547	1	MDHI
3) Resistor, 698 KILO-OHM, 1/2 Watt	58F003698K	1	MDHI
4) Contact	1662-202-1631	11	MDHI
5) Terminal Board	900E2750120-101	1	MDHI
6) Bracket	900E2750630-101	1	MDHI
7) Label, NO-GO	900E5750025-1	1	MDHI
8) Label, GO	900E5750025-3	1	MDHI
9) Relay, 8 Second Time Delay	M83726/30-1002P	1	MDHI
10) Washer	AN960JD6L	3	MDHI
11) Washer	AN960JD10L	8	MDHI
12) Terminal, Stud, Insulated	HS4093-1	6	MDHI
13) Relay	HS4235-1101	2	MDHI
14) Track Assembly, Relay	HS4785-104	1	MDHI
15) Socket Module, Relay	HS4791-1	2	MDHI
16) Sleeving, Expandable, Black	HS5330-1524	36 in (91.5 cm)	MDHI
17) Diode, Power Rectifier	JANTX1N5420	1	MDHI
18) Relay Socket	M12883/40-23S	1	MDHI
19) Wire, Single Conductor	M22759/43-22-9	964 in (245 cm)	MDHI
20) Heat Shrinkable Sleeving, Black	M23053/5-106-0	2 in (5 cm)	MDHI
21) Contact, Socket	M39029/1-16-20	1	MDHI
22) Contact, Socket	M39029/22-191	15	MDHI

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REPLACEMENT PARTS/SUPPLIES (Cont.)			
Nomenclature	Part No.	Qty.	Source
23) Contact, Socket	M39029/56-348	13	MDHI
24) Contact, Socket	M39029/58-360	14	MDHI
25) Contact, Socket	M39029/92-534	9	MDHI
26) Splice, Crimp, Insulated, Blue	M81824/1-2	3	MDHI
27) Solid Rivet	MS20470AD4	2	MDHI
28) Nut, Self Locking	MS21042L06	1	MDHI
29) Nut, Self Locking	MS21042L3	4	MDHI
30) Switch	MS24524-23	1	MDHI
31) Lug, Ring Terminal, Red	MS25036-102	2	MDHI
32) Lamp Holder, Green	MS25041-7	1	MDHI
33) Lamp Holder, Amber	MS25041-8	1	MDHI
34) Lamp	MS25237-327	2	MDHI
35) Washer, Lock, Spring	MS35338-41	1	MDHI
36) Screw, Machine	MS51957-30	1	MDHI
37) Screw, Machine	NAS603-8P	4	MDHI
38) Nut	NAS671-6	1	MDHI
39) Rivet, Blind	NAS1919B04-01	3	MDHI
40) Paint, Black Per FED-STD-595 #37038	HMS15-1100, T2 (RM009918)	1 oz (30 cc)	MDHI
41) Paint, White Per FED-STD-595 #17875	HMS15-1100, T2 (RM009134)	1 oz (30 cc)	MDHI
42) Supplement to the Rotorcraft Flight Manual for Takeoff and Landing Operations	CSP-900RFM-S2	1	MDHI

K. Disposition of Parts Removed

Return to MDHI

L. Warranty Policy:

N/A

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M. Tooling:

N/A

N. Weight and Balance:

Attitude Gyro #1 circuit breaker installation, 0.07 lbs at FS 244.4.

Attitude Gyro #1 wire harness installation, 0.18 lbs at FS 145.0.

Attitude Gyro #1 instrument installation, 2.92 lbs, at FS 104.8.

Take off timer installation, 1.3 lbs at FS 111.2, LBL 0.7, WL 113.2.

O. Electrical Load Data:

N/A

P. Other Publications Affected:

Rotorcraft Flight Manual JAR OPS 3 Supplement (CSP-900RFM-S2), Rotorcraft Maintenance Manual (CSP-900RMM-3), and Illustrated Parts List (CSP-900IPL-4).

2. ACCOMPLISHMENT INSTRUCTIONS

A. Attitude Gyro #1 Installation:

- (1). Install Attitude Gyro #1 Indicator, Wire Harness, and Circuit Breaker (Ref. CSP-900RMM-3).

B. IIDS Replacement:

- (1). Remove and replace IIDS (Ref. TB900-010R1).

C. Modification, Hover/Landing Light:

- (1). Perform Hover/Landing Light Modification (Ref. TB900-011).

D. Installation, Fire Extinguishing System:

- (1). Install Fire Extinguishing System (Ref. TB900-012R1).

E. Modification, Mechanical Engine Control System Modification:

- (1). Perform Mechanical Engine Control System Modification (Ref. SB900-063).

F. Modification, A612 Forward Interconnect Panel:

- (1). Perform A612 Forward Interconnect Panel Modification (Ref. SB900-069R1).

G. Modification, Take Off Timer:

(Ref. Table 1)

- (1). Fabricate wires (Ref. Table and CSP-900RMM-3).

Table 1. Wire Build

Wire No.	Wire Nomenclature	Part No.	Wire Length	Termination		Source
				A	B	
1	TT27A22 EMI 3	M22759/43-22-9 (RM005659)	30 in (76 cm)	1662-202-1631	M39029/92-534	MDHI
2	TT28B22 EMI 3	M22759/43-22-9 (RM005659)	16 in (41 cm)	M39029/22-191	M39029/58-360	MDHI

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Table 1. Wire Build (Cont.)

Wire No.	Wire Nomenclature	Part No.	Wire Length	Termination		Source
				A	B	
3	TT29A22 EMI 3	M22759/43-22-9 (RM005659)	16 in (41 cm)	Strip and Tin	M39029/58-360	MDHI
4	TT33A22N EMI 3	M22759/43-22-9 (RM005659)	30 in (76 cm)	1662-202-1631	MS25036-102	MDHI
5	TT21A22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	M39029/58-360	M39029/22-191	MDHI
6	TT21B22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	M39029/22-191	Strip and Tin	MDHI
7	TT31B22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	1662-202-1631	Strip and Tin	MDHI
8	TT22B22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	1662-202-1631	Strip and Tin	MDHI
9	TT29C22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	M39029/58-360	Strip and Tin	MDHI
10	TT35A22 EMI 3	M22759/43-22-9 (RM005659)	16 in (41 cm)	Strip and Tin	M39029/92-534	MDHI
11	TT24D22 EMI 3	M22759/43-22-9 (RM005659)	6 in (15 cm)	M39029/22-191	M39029/22-191	MDHI
12	TT28A22 EMI 3	M22759/43-22-9 (RM005659)	36 in (91 cm)	1662-202-1631	M39029/22-191	MDHI
13	TT24C22 EMI 3	M22759/43-22-9 (RM005659)	36 in (91 cm)	1662-202-1631	M39029/22-191	MDHI
14	TT24A22 EMI 3	M22759/43-22-9 (RM005659)	6 in (15 cm)	M39029/22-191	M39029/22-191	MDHI
15	TT21C22 EMI 3	M22759/43-22-9 (RM005659)	16 in (41 cm)	M39029/22-191	M39029/92-534	MDHI
16	TT34A22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	Strip and Tin	M39029/92-534	MDHI
17	TT22A22 EMI 3	M22759/43-22-9 (RM005659)	36 in (91 cm)	Strip and Tin	Strip and Tin	MDHI
18	TT32C22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	1662-202-1631	Strip and Tin	MDHI

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Table 1. Wire Build (Cont.)

Wire No.	Wire Nomenclature	Part No.	Wire Length	Termination		Source
				A	B	
19	TT32B22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	1662-202-1631	Strip and Tin	MDHI
20	TT22C22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	1662-202-1631	Strip and Tin	MDHI
21	TT31C22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	1662-202-1631	Strip and Tin	MDHI
22	TT24F22 EMI 3	M22759/43-22-9 (RM005659)	16 in (41 cm)	M39029/22-191	M39029/92-534	MDHI
23	TT25C22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	M39029/92-534	M39029/58-360	MDHI
24	TT26C22 EMI 3	M22759/43-22-9 (RM005659)	12 in (31 cm)	M39029/92-534	M39029/58-360	MDHI
25	TT31A22 EMI 3	M22759/43-22-9 (RM005659)	36 in (91 cm)	M39029/92-534	Strip and Tin	MDHI
26	TT32A22 EMI 3	M22759/43-22-9 (RM005659)	40 in (102 cm)	M39029/92-534	Strip and Tin	MDHI
27	TT24B22 EMI 3	M22759/43-22-9 (RM005659)	40 in (102 cm)	1662-202-1631	M39029/22-191	MDHI
28	TT24G22 EMI 3	M22759/43-22-9 (RM005659)	16 in (41 cm)	M39029/22-191	M39029/58-360	MDHI
29	TT24E22 EMI 3	M22759/43-22-9 (RM005659)	16 in (41 cm)	M39029/22-191	M39029/58-360	MDHI
30	TT25B22 EMI 3	M22759/43-22-9 (RM005659)	24 in (61 cm)	M39029/58-348	M39029/58-348	MDHI
31	TT25A22 EMI 3	M22759/43-22-9 (RM005659)	40 in (102 cm)	M39029/58-360	Strip and Tin	MDHI
32	TT26B22 EMI 3	M22759/43-22-9 (RM005659)	24 in (61 cm)	M39029/58-348	M39029/58-348	MDHI
33	TT26A22 EMI 3	M22759/43-22-9 (RM005659)	40 in (102 cm)	M39029/58-360	Strip and Tin	MDHI
34	TT24K22 EMI 3	M22759/43-22-9 (RM005659)	24 in (61 cm)	M39029/58-348	M39029/58-348	MDHI

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Table 1. Wire Build (Cont.)

Wire No.	Wire Nomenclature	Part No.	Wire Length	Termination		Source
				A	B	
35	TT24N22 EMI 3	M22759/43-22-9 (RM005659)	40 in (102 cm)	M39029/58-360	Strip and Tin	MDHI
36	TT24H22 EMI 3	M22759/43-22-9 (RM005659)	24 in (61 cm)	M39029/58-348	M39029/58-348	MDHI
37	TT24M22 EMI 3	M22759/43-22-9 (RM005659)	40 in (102 cm)	M39029/58-360	Strip and Tin	MDHI
38	TT28C22 EMI 3	M22759/43-22-9 (RM005659)	40 in (102 cm)	M39029/58-348	M39029/58-348	MDHI
39	TT28D22 EMI 3	M22759/43-22-9 (RM005659)	10 in (25 cm)	M39029/58-360	MS25036-102	MDHI
40	TT29B22 EMI 3	M22759/43-22-9 (RM005659)	40 in (102 cm)	M39029/58-348	M39029/58-348	MDHI
41	TT28E22 EMI 3	M22759/43-22-9 (RM005659)	16 in (41 cm)	M39029/22-191	Strip and Tin	MDHI
42	TT30B22N EMI 3	M22759/43-22-9 (RM005659)	40 in (102 cm)	M39029/1-16-20	M39029/58-348	MDHI
43	TT30A22 EMI 3	M22759/43-22-9 (RM005659)	10 in (25 cm)	M39029/58-360	Strip and Tin	MDHI

(2). If applicable, remove or cap and stow unused wires (Ref. Table and CSP-900RMM-3).

(Ref. Table 2)

Table 2. Wires To Be Removed From W124 On Rotorcraft S/N 00008-00018

Wire Number	From	To
L121B24 EMI 3	J118-36	P172-69
L122B24 EMI 3	J118-37	P172-70
L123F24 EMI 3	J118-38	P172-71
L124B24N EMI 3	J118-39	GS104-F
L126B24 EMI 3	J118-40	P172-72
L127B24 EMI 3	J118-41	P172-73
L128F24 EMI 3	J118-42	P172-74
L129B24N EMI 3	J118-43	GS104-G

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(Ref. Figure 1)

- (3). Stencil new S9 switch legend as shown using block font with a height of 0.08 in (2.03 mm) minimum. Paint new legend using HMS15-1100 white paint.
- (4). Install GO and NO-GO lights.
 - (a). Blackout "PUSH TO TEST" with HMS15-1100 black paint.
 - (b). Remove instrument panel glareshield (Ref. CSP-900RMM-3).
 - (c). Locate position of lights approximately as shown.
 - (d). Remove encoding altimeter (Ref. CSP-900RMM-3).

Protective Equipment



- (e). Drill holes with a number 40 drill and enlarge to **0.470 - 0.490 in ()** and deburr.

Chemical Coating (C233)



- (f). Touch up with chemical coating (C233) (Ref. CSP-SPM).

Primer (C310)



- (g). Touch up with primer (C310) (Ref. CSP-SPM).
- (h). Install lamp holders and lamps (Ref. CSP-900RMM-3).
- (i). Install "NO-GO" and "GO" labels as shown.

NOTE: Do not reinstall altimeter and glareshield at this time.

- (5). Install K1 and K2 relay.
 - (a). Remove access panels PL120 and PR120 (Ref. CSP-900RMM-2).

Protective Equipment



- (b). Locate the 900E2750630 bracket as shown in figure and drill three (3) equally spaced number 30 holes through bracket and aircraft structure.
- (c). Deburr holes and electrical prep bracket and structure for class R electrical bond (Ref. CSP-SPM).

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Primer (C310)



- (d). Install bracket using NAS1919 rivets. Install wet with primer (C310).
- (e). Electrical bond prep bracket and HS4785 track assembly for class R electrical bond (Ref. CSP-SPM).
- (f). Install track assembly using four (4) NAS603-8P screws, eight (8) AN960JD10L washers, and four (4) MS21042L3 nuts. Torque hardware (Ref. CSP-900RMM-2).
- (g). Test track for class R electrical bond (Ref. CSP-SPM).
- (h). Install two (2) HS4791-1 relay sockets into track assembly (Ref. CSP-900RMM-3).

NOTE: Do not install relays or close panels at this time.

- (6). Modify A612 forward interconnect panel.

CAUTION

- The modifications in this portion of this Bulletin are compatible with base line rotorcraft.
 - If it is determined that this portion of this Bulletin is not compatible with a specific rotorcraft, contact MDHS Field Service for assistance (Ref. Points of Contact).
 - Note the location of any option installed wiring or components prior to removing or disconnecting any wiring or components.
- (a). Access A612 panel and remove (Ref. CSP-900RMM-3).
 - (b). Mark location of cutout and three (3) relay mounting holes for K11 relay.
 - (c). Mark location for two (2) TB5 mounting fasteners, use holes in TB5 as a template.

Protective Equipment



- (d). Drill three relay mounting holes with a number 4 drill bit and deburr.
- (e). Cutout relay mounting clearance hole and deburr.
- (f). Drill TB5 mounting holes with a number 30 drill bit and deburr.

Chemical Coating (C233)



- (g). Touch up with chemical coating (C233) (Ref. CSP-SPM).

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Primer (C310)



- (h). Install TB5 with two (2) MS2047AD4 rivets. Install wet with primer (C310).
- (i). Touch up K11 cutout and mounting holes with primer (C310) (Ref. CSP-SPM).
- (j). Install K11 relay socket using supplied hardware. Torque hardware.

NOTE: Do not install K11 relay at this time.

Protective Equipment



- (k). Mark location of ground stud E2 and drill with a number 18 drill bit and deburr.

Chemical Coating (C233)



- (l). Prepare ground stud location E2 for class R electrical bond (Ref. CSP-SPM).
 - (m). Install MS51957 Screw, 3 ea. AN960JD6L washers, MS35338 spring lock washer, NAS671 nut, and MS21042L06 nut.
 - (n). Test E2 for class R electrical bond (Ref. CSP-SPM).
 - (o). Identify E2 location with reference designator using permanent ink.
 - (p). Install power rectifier diode CR4 onto TB5-1 and TB5-2.
 - (q). Install 220 ohm resistor onto TB5-3 and TB5-6, or if Bulletin was previously complied with prior to Revision 3, replace existing 2.2 K resistor with 220 ohm resistor.
 - (r). Install 698 K ohm resistor onto TB5-5 and TB5-8.
- (7). Modify A602 electrical/lighting control panel.
- (a). Remove A602 panel from center console (Ref. CSP-900RMM-3).
 - (b). Remove existing S5 lighting master and replace with MS24524-23 switch (Ref. CSP-900RMM-3).
 - (c). Install 510 ohm resistor onto R2-3A and R2-2A with heat shrinkable sleeving over resistor conductors, or if Bulletin was previously complied with prior to Revision 3, disconnect lead of existing 510 ohm resistor from R2-1A and reconnect to R2-3A.

(Ref. Figure 2)

NOTE:

- Route new wires with existing harness.
- Tie new wires into existing harness after installing all wires.

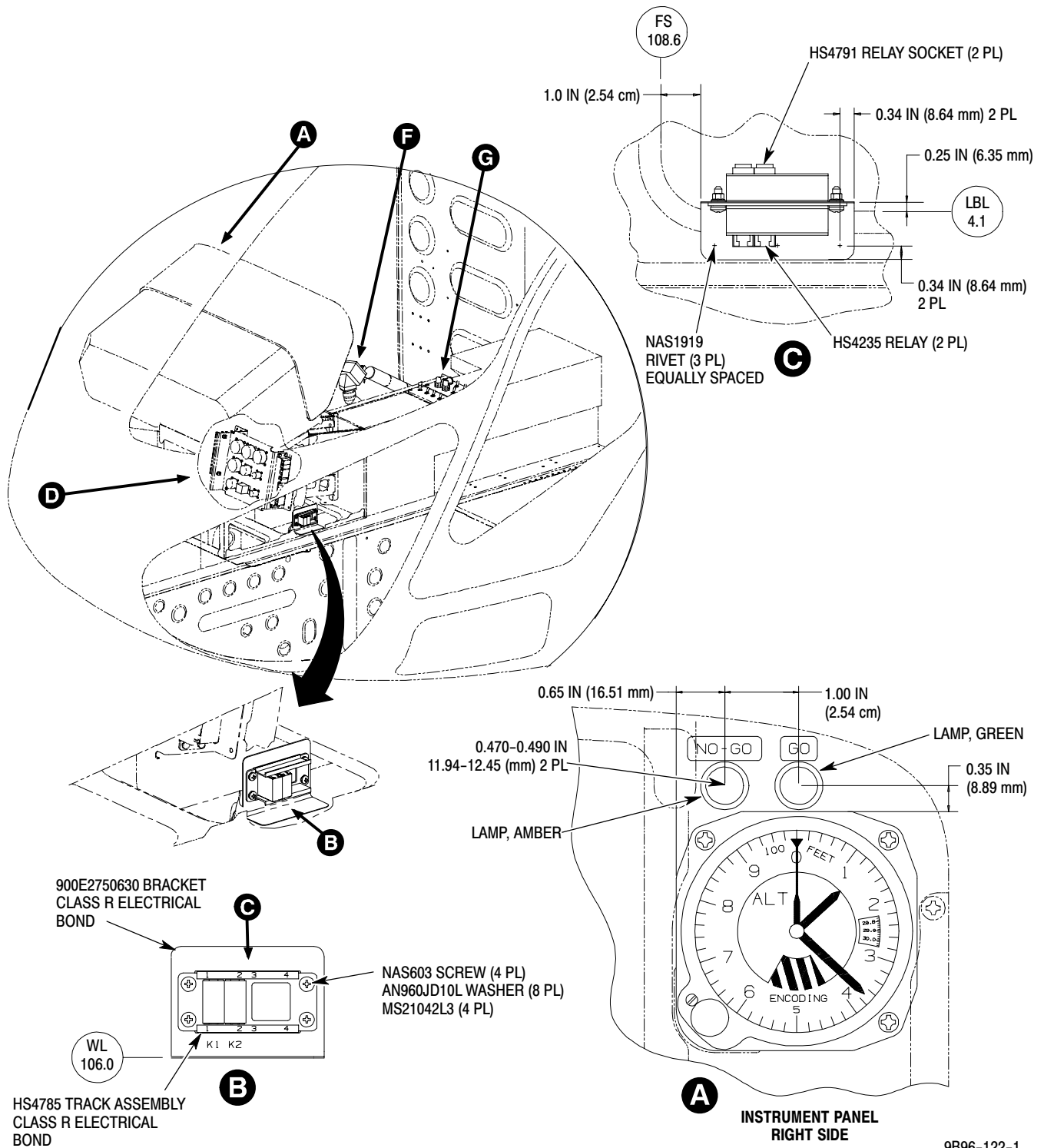
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- (d). Install wire TT28D22 EMI 3 from S5-4 to J2-F.
- (e). Install wire TT29C22 EMI 3 from J2-G to R2-3A, or if Bulletin was previously complied with prior to Revision 3, disconnect existing wire TT29C22 EMI 3 from R2-1A and reconnect to R2-3A.
- (f). Install wire TT30A22 EMI 3 from J2-H to R2-2A.

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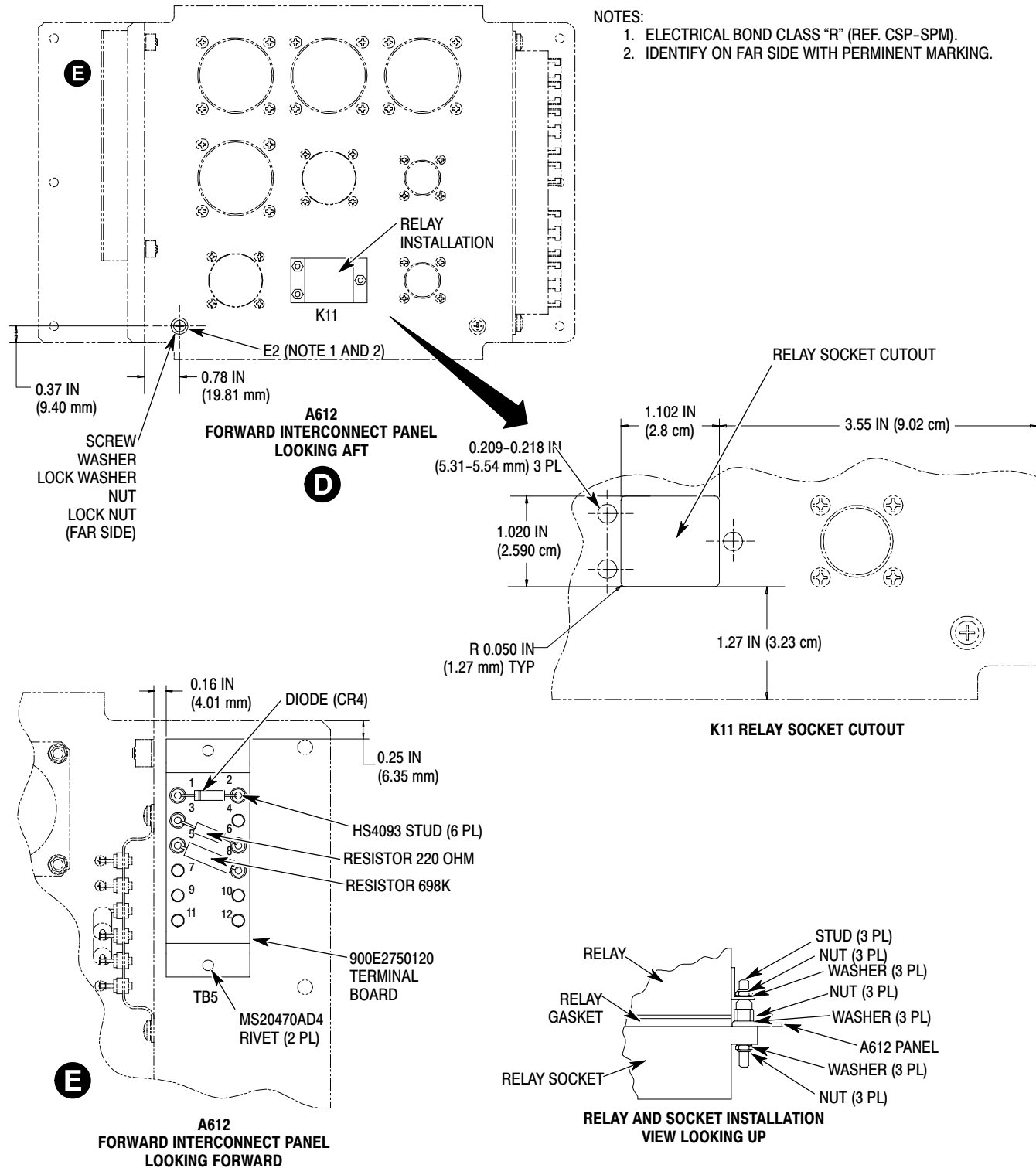
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Figure 1. A612 Forward Interconnect Panel Modification (Sheet 1 of 3)

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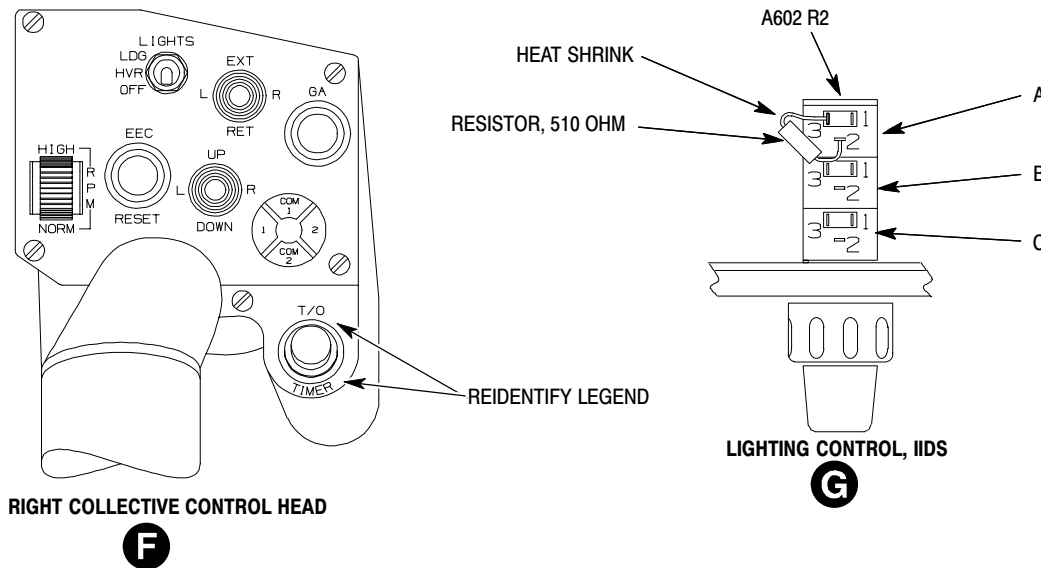


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Figure 1. A612 Forward Interconnect Panel Modification (Sheet 2 of 3)

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Figure 1. A612 Forward Interconnect Panel Modification (Sheet 3 of 3)

(Ref. Figure 2)

NOTE:

- Route new wires with existing harness.
- Tie new wires into existing harness after installing all wires.

(8). Install new wiring into W124 wire harness.

- (a). Install wire TT28C22 EMI 3 from P172-73 to P116-F.
- (b). Install wire TT29B22 EMI 3 from P172-74 to P116-G.
- (c). Install wire TT30B22N EMI 3 from GS104-F to P116-H.
- (d). Install wire TT25B22 EMI 3 from P172-69 to J118-37.
- (e). Install wire TT26B22 EMI 3 from P172-70 to J118-36.
- (f). Install wire TT24K22 EMI 3 from P172-71 to J118-39.
- (g). Install wire TT24H22 EMI 3 from P172-72 to J118-38.

(9). Reinstall A602 electrical/lighting control panel Ref. CSP-900RMM-3).

(10). Install new wiring into W136 wire harness

NOTE: Install new wires in W136 wire harness inside HS5330 expandable sleeving.

- (a). Install wire TT25A22 EMI 3 from P118-37 to NO-GO lamp holder (amber).
- (b). Install wire TT26A22 EMI 3 from P118-36 to GO lamp holder (green).
- (c). Install wire TT24N22 EMI 3 from P118-39 to GO lamp holder (green).
- (d). Install wire TT24M22 EMI 3 from P118-38 to NO-GO lamp holder (amber).

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- (11). Install new wiring into A612 panel wire harness.
- (a). Remove wire E208B24 EMI 3 from J1-18 to TB2-6Z and discard.
 - (b). Install wire TT21A22 EMI 3 from J6-12 to TB2-6T.
 - (c). Install wire TT21B22 EMI 3 from TB2-6W to TB5-1.
 - (d). Install wire TT21C22 EMI 3 from TB2-6Z to K11-B2.
 - (e). Install wire TT24A22 EMI 3 from TB2-6D to TB3-8M.
 - (f). Install wire TT24D22 EMI 3 from TB3-8J to TB3-8N.

NOTE: Splices K2-SP1, K2-SP2, and K2-SP3 will be completed after reinstallation of A612 panel.

- (g). Install wire TT31A22 EMI 3 from K2-SP1 to K11-X2.
 - (h). Install wire TT22A22 EMI 3 from K2-SP2 to TB5-2.
 - (i). Install wire TT32A22 EMI 3 from K2-SP3 to K11-B1.
 - (j). Install wire TT28B22 EMI 3 from TB3-8Y to J6-73.
 - (k). Install wire TT24F22 EMI 3 from TB3-8R to K11-X1.
 - (l). Install wire TT24G22 EMI 3 from TB3-8S to J6-71.
 - (m). Install wire TT24E22 EMI 3 from TB3-8P to J6-72.
 - (n). Install wire TT28E22 EMI 3 from TB3-8Z to TB5-3.
 - (o). Install wire TT35A22 EMI 3 from TB5-5 to K11-D3.
 - (p). Install wire TT34A22 EMI 3 from TB5-8 to K11-D1.
 - (q). Install wire TT29A22 EMI 3 from TB5-6 to J6-74.
 - (r). Install wire TT25C22 EMI 3 from K11-A3 to J6-69.
 - (s). Install wire TT26C22 EMI 3 from K11-A1 to J6-70.
- (12). Reinstall A612 forward interconnect panel (Ref. CSP-900RMM-3).
- (13). Install wiring from A612 to K1/K2.
- (a). Install wire TT24C22 EMI 3 from K1-X1 to TB3-8K.
 - (b). Install wire TT28A22 EMI 3 from K1-A1 to TB3-8W.
 - (c). Install wire TT27A22 EMI 3 from K1-A2 to K11-A2.
 - (d). Install wire TT33A22N EMI 3 from K1-B1 to E2.

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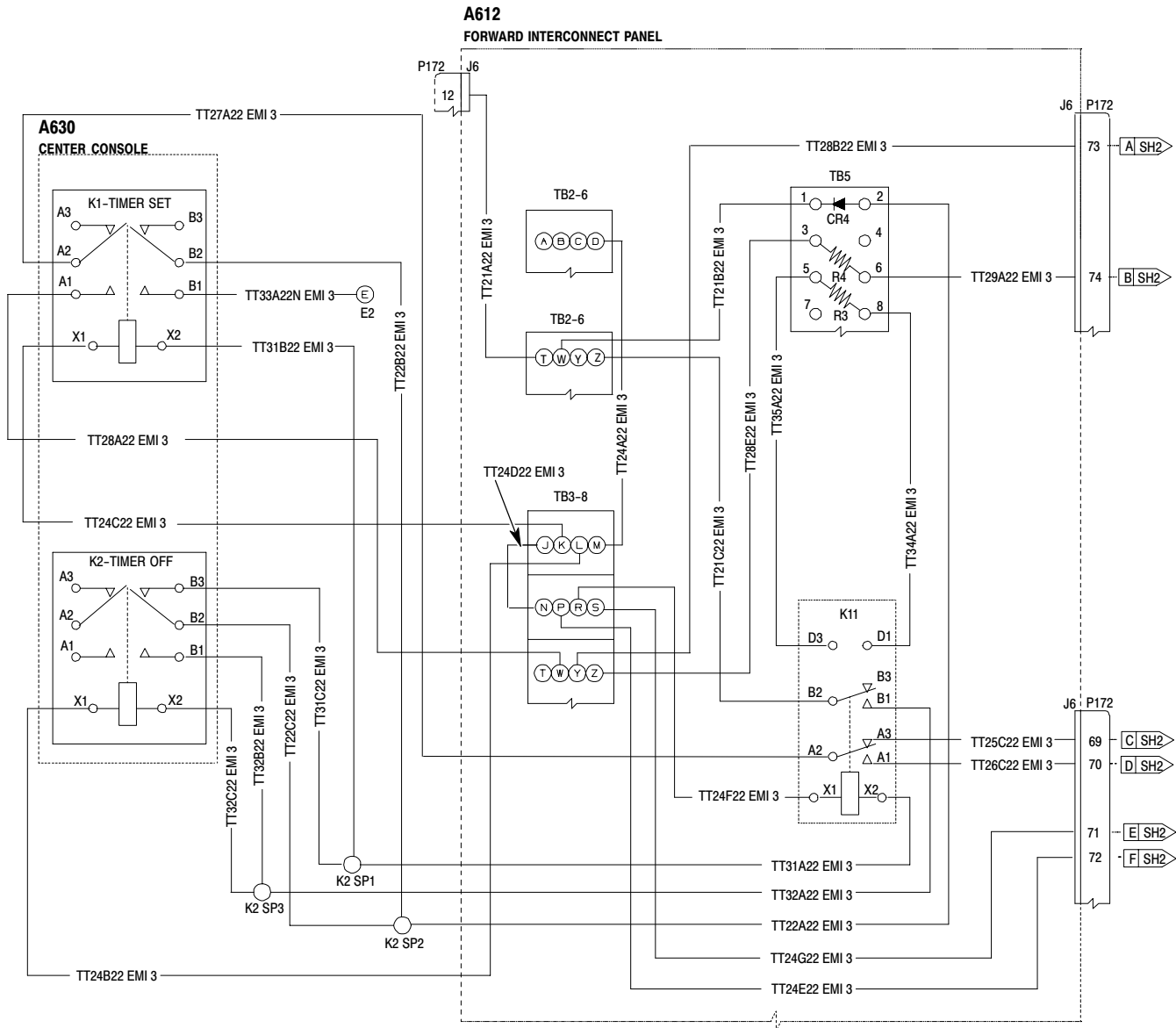
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NOTE:

- Complete splices K2-SP1, K2-SP2, and K2-SP3 after insertion of all the wires into each splice (Ref. CSP-900RMM-3).
- Splices shall be secured into wiring from A612 to K1/K2 after completion of wiring installation.
 - (e). Install wire TT31B22 EMI 3 from K1-X2 to K2-SP1.
 - (f). Install wire TT31C22 EMI 3 from K2-B3 to K2-SP1.
 - (g). Install wire TT22C22 EMI 3 from K2-B2 to K2-SP2.
 - (h). Install wire TT22B22 EMI 3 from K1-B2 to K2-SP2.
 - (i). Install wire TT32B22 EMI 3 from K2-B1 to K2-SP3.
 - (j). Install wire TT32C22 EMI 3 from K2-X2 to K2-SP3.
 - (k). Install wire TT24B22 EMI 3 from K2-X1 to TB3-8L.
- (14). Install altimeter, glareshield, K11 relay, K1 relay, and K2 relay.
- (15). Secure all wiring.
- (16). Perform operational test of GO NO-GO installation.
 - (a). Apply electrical power to the rotorcraft (Ref. CSP-900RMM-3).
 - (b). Place LT MSTR switch on Lighting Control panel in OFF position.
 - (c). Press and release takeoff timer switch on right collective.
 - (d). Verify the NO-GO (amber) light is illuminated for eight (8) seconds.
 - (e). Verify the GO (green) light is illuminated after the NO-GO (amber) light is off.
 - (f). Press and release the takeoff timer switch on the right collective and verify both lights are off.
 - (g). Place LT MSTR switch on Lighting Control panel in ON position.
 - (h). Repeat steps (c), (d) and (e).
 - (i). Rotate IIDS lighting control on Lighting Control panel and verify that the intensity of the GO (green) light can be changed.
 - (j). Press and release the takeoff timer switch on the right collective and verify both lights are off.
- (17). Close/install all previously opened panels.
- (18). Record compliance to this Service Bulletin in the Compliance Record section of the Rotorcraft Log Book.

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NOTES:

1. ELECTRICAL BOND CLASS R (REF. CSP-SPM).
2. WIRES IDENTIFIED WITH "TT" FUNCTION ARE NEW WIRES REQUIRED FOR THIS MODIFICATION.

Figure 2. Take Off Timer Wiring Diagram (Sheet 1 of 2)

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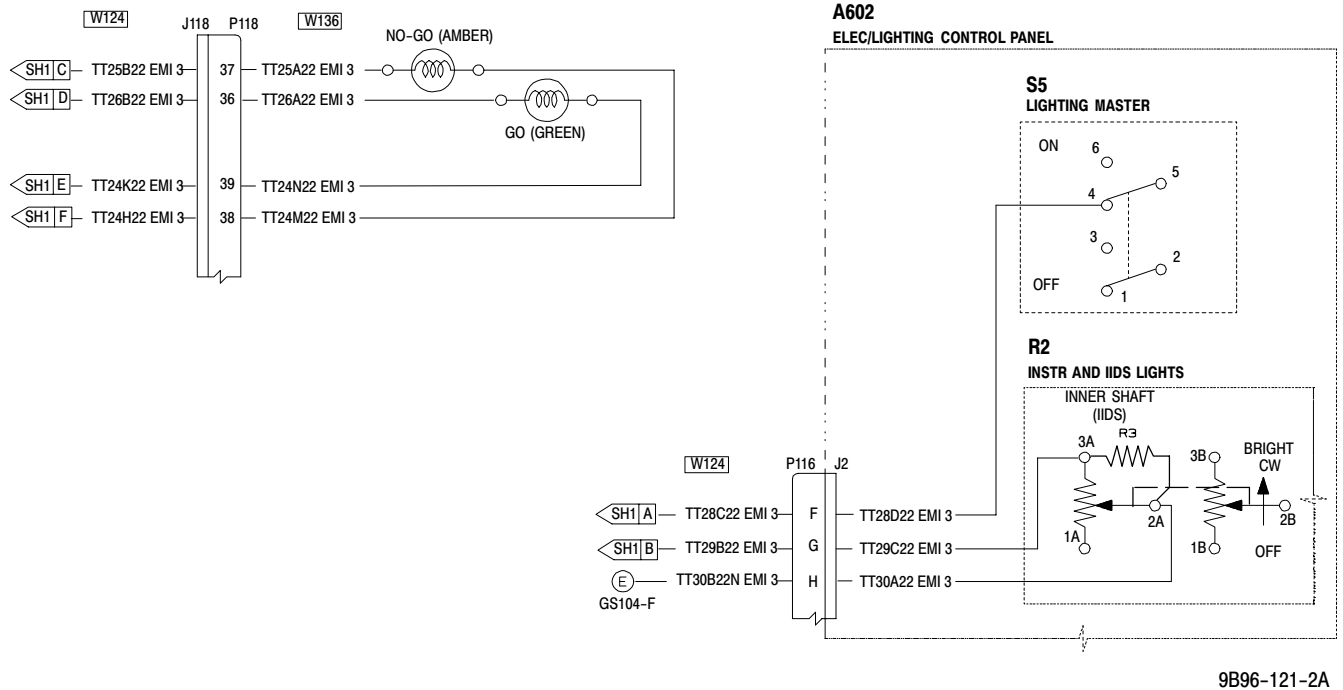


Figure 2. Take Off Timer Wiring Diagram (Sheet 2 of 2)