TECHNICAL BULLETIN

Bell Helicopter TEXTRON

A Subsidiary of Textron Inc.

DATE	
REV	

No. 212-04-198

Date 08-25-04

MODEL AFFECTED: **212**

SUBJECT: **HEATED WINDSHIELD INDICATORS, REPLACEMENT FOR SPARES**

HELICOPTERS AFFECTED: **Model 212 helicopters serial number 30501 through 30999, 31101 through 31277, 31279 through 31283, and 31286 through 31294.**

[Model 212 helicopters serial number 32101 and subsequent will have the intent of this bulletin accomplished prior to delivery]

COMPLIANCE: At Customer's Option

DESCRIPTION:

Bell Helicopter has become aware that indicator P/N 212-706-053-005 is no longer available. This switch assembly is used in the Heated windshield Kit. This bulletin introduces a new Indicator retrofit Kit 212-704-165-103.

APPROVAL:

The engineering design aspects of this bulletin are FAA/DER approved.

MANPOWER:

Approximately 2.0 man-hours are required to complete this bulletin. Man-hours are based on hands-on time, and may vary with personnel and facilities available.

MATERIALS:

Required Material:
The following material is required for the accomplishment of this bulletin and may be obtained through your Bell Helicopter Textron Supply Center.

Part Number	Nomenclature	Quantity
212-704-165-103	Heated windshield indicator	1

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

BHT-212-IPC Illustrated Parts Breakdown
BHT-212-MM Maintenance Manual
BHT-ELEC-SPM

PUBLICATIONS AFFECTED:

BHT-212-IPC Illustrated Parts Breakdown
BHT-212-MM Maintenance Manual
BHT SI 212-57

ACCOMPLISHMENT INSTRUCTIONS:

1. Disconnect battery.
2. Gain access to the back of Heated Windshield indicator located on the instrument panel.
3. Disconnect wires from Heated Windshield indicator.
4. Using fig 2, delete wires as mentioned.
5. Remove and discard Heated Windshield indicator from instrument panel.
6. Install new Heated Windshield indicators in conjunction with doubler –111 as shown in fig 3.

7. Using the fig 1 , 4 and BHT-ELEC-SPM section 4-4, relocate and connect wires on previously installed indicator.

8. Using fig 5, and BHT-ELEC-SPM section 4-9, assemble diode assy as shown in step 1 and 2.

9. Using fig 1, connect diode assy on TB71, between 7 and 8, placing the cathode of the zener diode on the pin 8.

10. Re-connect battery.

11. Apply appropriate power to Heated Windshield system and perform following system check.

12. Check that the “ON” lights illuminate when Heated windshield switch is turned “ON”.

13. Press the new heated windshield “ON/FAIL” light, installed on the instrument panel, both FAIL and both ON lights should illuminate.

14. System check completed, turn power “OFF” on the system and aircraft.

15. Make an entry in the helicopter historical records indicating compliance with this Technical Bulletin.

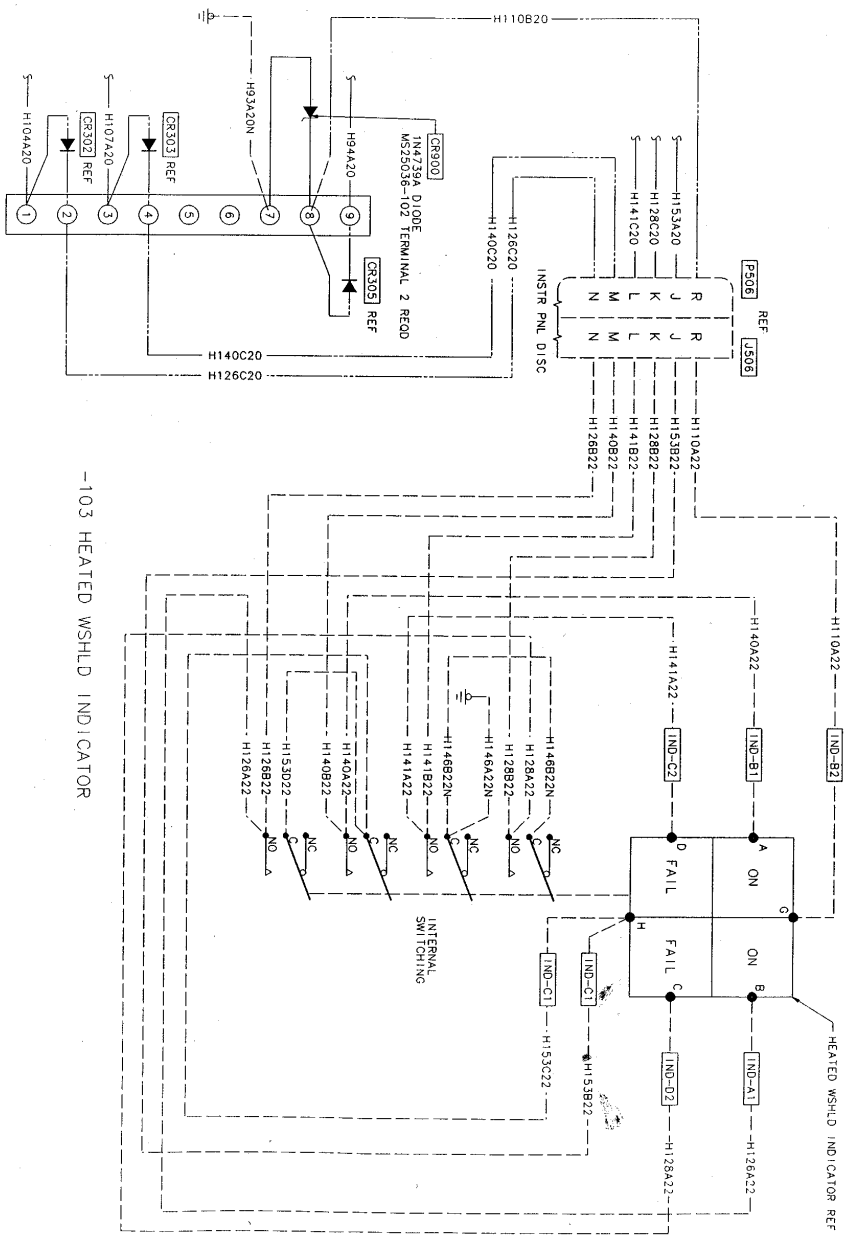

-103 HEATED WSHLD INDICATOR
H110B20
H93A20N
H104A20
CR302 REF
H107A20
CR303 REF
H94A20
CR900
IN4739A DIODE
MS25036-102 TERMINAL 2 REQD
CR305 REF
H140C20
H126C20
INSTR PNL DISC
P506
REF
J506
H153A20
H128C20
H141C20
H153B22
H128B22
H141B22
H140B22
H126B22
H110A22
H140A22
H141A22
IND-C2
IND-B1
IND-B2
H146B22N
H146A22N
H128A22
H153D22
H140A22
INTERNAL SWITCHING
FAIL
ON
IND-C1
H153C22
IND-D2
IND-A1
HEATED WSHLD INDICATOR REF

Fig 1

DELETE TABLE -103		
WIRE NUMBER	FROM	TO
H94B20	TB71 (5)	TB71 (9)
H108B20	J506 (P)	TB71 (6)
H108A22	P506 (P)	IND SWT (A2)
H153E22	SWITCH	IND SWT (D1)
HARDWARE	FROM	TO
R301	TB71 (7)	TB71 (8)
R300	TB71 (6)	TB71 (7)
CR304	TB71 (5)	TB71 (6)

Fig 2

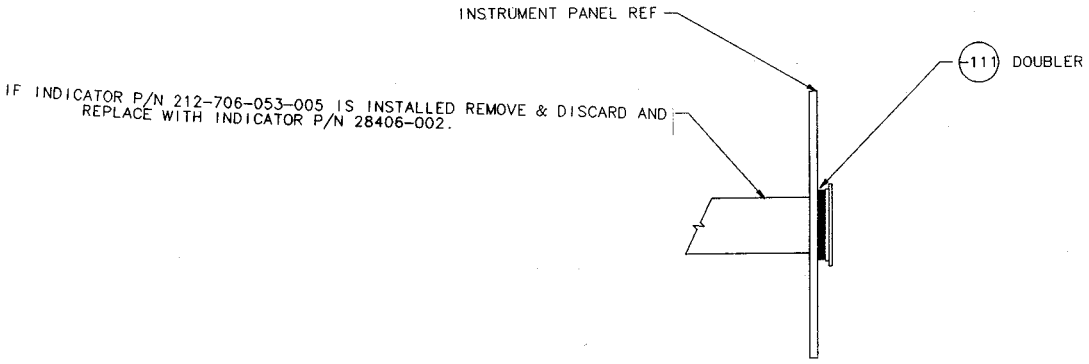
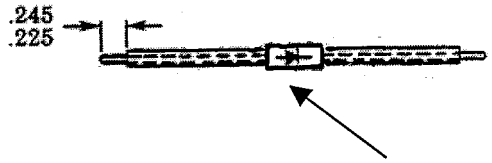


Fig 3

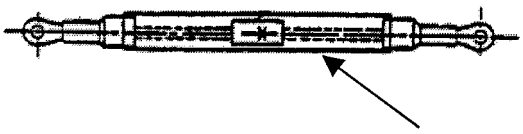
RELOCATE WIRE TABLE -103		
WIRE NUMBER	FROM OLD SWT P/N 212-706-053-005	TO NEW SWT P/N 28406-002
H126A22	(A1)	(B)
H140A22	(B1)	(A)
H110A22	(B2)	(G)
H141A22	(C2)	(D)
H153B22	(C1)	(H)
H128A22	(D2)	(C)
H153C22	(C1)	(H)

Fig 4



tubing 130-005-3

step 1



tubing 130-005-5N

step 2

Fig 5