

Bell Helicopter **TEXTRON**

Bell Helicopter Textron Inc.
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March 15, 2000

TO: ALL 214ST OWNERS AND OPERATORS

**SUBJECT: REVISION "A" TO TECHNICAL BULLETIN NO. 214ST-98-156
BELLMOUTH HEATER CIRCUIT, MODIFICATION OF,**

Technical Bulletin 214ST-98-156 is being revised to allow stuffing tube to be replaced by plastic grommet to allow additional clearance for installed wires at the aft electrical compartment bulkhead. The materials section has been revised to provide the specific material for this task.

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TECHNICAL BULLETIN



A Subsidiary of Textron Inc

NO. 214ST-98-156

DATE 04-30-98

DATE 03/15/00

REV. A

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PAGE NO.1 OF 5

MODELS AFFECTED: MODEL 214ST

SUBJECT: BELLMOUTH HEATER CIRCUIT,
MODIFICATION OF

HELICOPTERS AFFECTED: Model 214ST S/N 28101 through 28200

COMPLIANCE: At customers option.

DESCRIPTION:

The current spare bellmouth heater P/N 214-062-284-105 and -106 are available for model 214ST S/N 28180 and subsequent. Model 214ST S/N 28101 through 28179 use P/N 214-062-284-103 and -104, which are no longer available from spares. The differences in these bellmouth heaters are the vendors that manufacture the heaters and the pin terminations of the heating element on the bellmouth assembly connector.

The purpose of this technical bulletin is to provide instructions to modify the airframe wiring so that either bellmouth heater may be installed on model 214ST helicopters.

APPROVAL:

The engineering design aspect of this Technical Bulletin is FAA approved.

MANPOWER:

Approximately 3.0 man-hours are required to accomplish this bulletin. Man-hours are based on "hands-on" time. Time to accomplish the required tasks may vary due to manpower and facilities available.

MATERIAL:

Consumable Material

The following material is required to accomplish this Bulletin, however this material is considered consumable (bench stock) material and may not require ordering depending on the operators consumable material stock levels. This material may be obtained through your Bell Helicopter Textron Supply Center.

Model 214ST Serial Number 28101-through 28179

<u>PART NUMBER</u>	<u>NOMENCLATURE</u>	<u>QUANTITY</u>	
MS25036-116	TERMINAL	2 EA	
MS25036-118	TERMINAL	2 EA	
M22759/2-8-9	WIRE	15 FT	
MS21266-1N	GROMMET, PLASTIC	1 EA	A
299-947-107TY2CL4 QT	ADHESIVE (EC2126 OR EQUIVALENT)	1 EA	

Model 214ST Serial Number 28180 and Subsequent

<u>PART NUMBER</u>	<u>NOMENCLATURE</u>	<u>QUANTITY</u>	
MS25036-120	TERMINAL	2 EA	
MS25036-122	TERMINAL	2 EA	
M22759/2-6-9	WIRE	15 FT	
MS21266-1N	GROMMET, PLASTIC	1 EA	A
299-947-107TY2CL4 QT	ADHESIVE (EC2126 OR EQUIVALENT)	1 EA	

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

Maintenance Manual BHT-214ST-MM Chap 96 and Chap 98
Illustrated Parts Book BHT-214ST-IPB Chap 96 figures 23 and 41

PUBLICATIONS AFFECTED:

Illustrated Parts Book BHT-214ST-IPB

ACCOMPLISHMENT INSTRUCTIONS:

PART I: MODEL 214ST S/N 28101 THROUGH 28179

1. Refer to Illustrated Parts Book BHT-214ST-IPB Figure 41 item 23 and Maintenance Manual BHT-214ST-MM Chap 98 figure 98-24. Locate Engine 1 and Engine 2 bellmouth heater connectors 10H4J1 and 10H5J1 and Engine 1 and Engine 2 Anti-ice RCCB 10CB21 and 10CB22.
2. Cut and mark wire P/N M22759/2-8-9 in accordance with Table 1.

WIRE NUMBER	LENGTH IN INCHES
H131A8	120
H132A8N	35
H108A8	93
H109A8N	42

TABLE 1

3. Refer to figure 1 of this Technical Bulletin and install added wires from the Engine bellmouth heater connectors to the Engine Anti-ice RCCB and to airframe ground.

-Note-

If additional clearance is required at the aft electrical compartment bulkhead, Stuffing Tubes P/N G1338-A-4 may be removed and replaced with Plastic Grommet P/N MS21266-1N. Install plastic grommet with adhesive P/N 299-947-107 TY2 CL4.

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-Note-

Contacts (R&T) in connectors 10H4J1 and 10H5J1 may be removed with contact removal tool P/N M81969/14-04 (rear release). It is recommended that these contacts be soldered to the wire then installed with tool P/N M81969/14-04.

PART II: MODEL 214ST S/N 28180 and subsequent

1. Refer to Illustrated Parts Book BHT-214ST-IPB Figure 41 item 23 and Maintenance Manual BHT-214ST-MM Chap 98 figure 98-24. Locate Engine 1 and Engine 2 bellmouth heater connectors 10H4J1 and 10H5J1 and Engine 1 and Engine 2 Anti-ice RCCB 10CB21 and 10CB22.
2. Cut and mark wire P/N M22759/2-6-9 in accordance with Table 2.

WIRE NUMBER	LENGTH IN INCHES
H131A6	120
H132A6N	35
H108A6	93
H109A6N	42

TABLE 2

3. Refer to figure 2 of this Technical Bulletin and install added wire from the Engine bellmouth heater connectors to the Engine Anti-ice RCCB and to airframe ground.

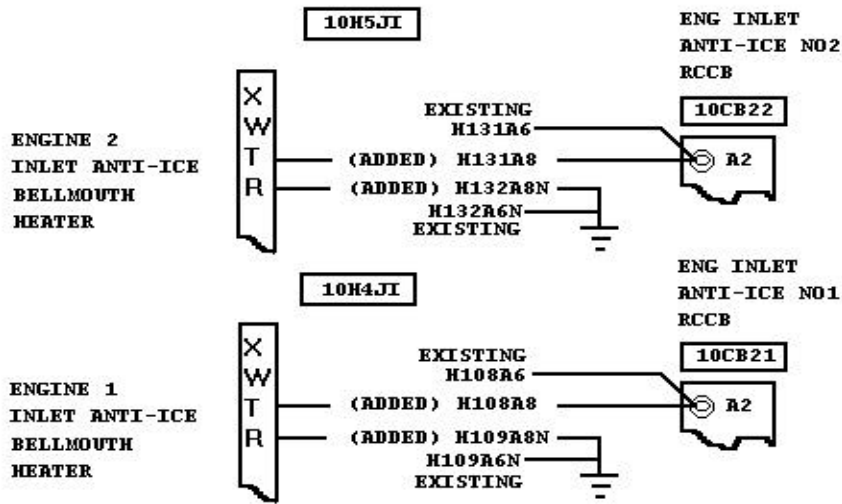
-Note-

If additional clearance is required at the aft electrical compartment bulkhead, Stuffing Tubes P/N G1338-A-4 may be removed and replaced with Plastic Grommet P/N MS21266-1N. Install plastic grommet with adhesive P/N 299-947-107 TY 2 CL 4.

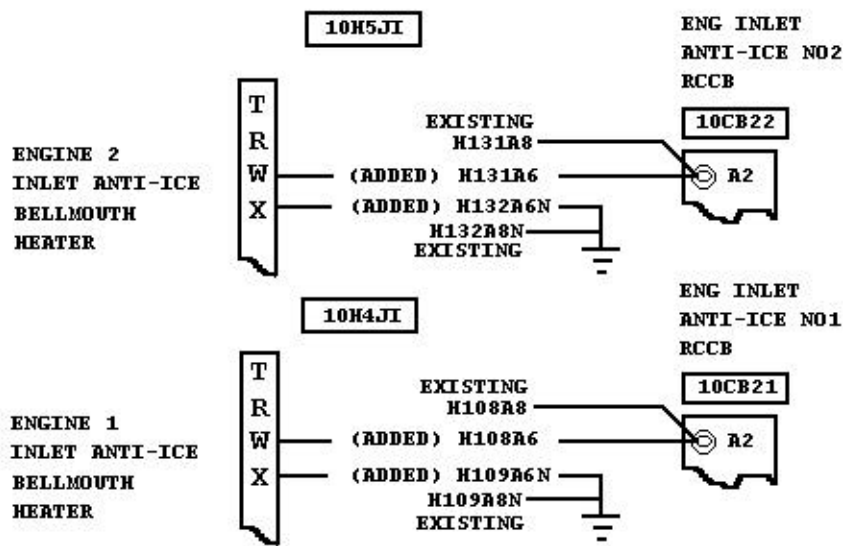
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-Note-

Contacts (W&X) in connectors 10H4J1 and 10H5J1 may be removed with contact removal tool P/N M81969/29-03 (rear release). It is recommended that these contacts be soldered to the wire then installed with tool P/N M81969/29-03.



214ST S/N 28101-28179
FIGURE 1



214ST S/N 28180-SUB
FIGURE 2