

TECHNICAL BULLETIN

NO. 214ST-89-101

Bell Helicopter **TEXTRON**

A Subsidiary of Textron Inc

DATE 5-18-89

DATE

REV.

Post Office Box 482 • Fort Worth, Texas 76101

PAGE NO. 1 of 5

MODEL AFFECTED: 214ST

SUBJECT: 85 GALLON AUXILIARY FUEL KIT, P/N 214-706-600, MODIFICATION OF

HELICOPTERS AFFECTED: All 214ST Helicopters with auxiliary fuel kit, P/N 214-706-600-101/-102 or -103/-104, installed

COMPLIANCE: At customer option

DESCRIPTION:

Bell Helicopter Textron is introducing new left/right 85 gallon auxiliary fuel kits, P/N 214-706-600-105/-106, which replace kits P/N 214-706-600-101/-102 and -103/-104. The new kits eliminate the two piece quick disconnect hose and check valve assemblies, utilizing a new one-piece hose assembly, P/N 214-066-334-101. This new hose requires a modification be made to the existing tank assemblies, P/N 214-066-270-101/102. Also, a new cover assembly, P/N 214-066-337-101 and cover-fitting assemblies, P/N 214-066-335-101 and 214-066-336-107, are required.

Once existing assets are used, spares will no longer be available for the early -101/-102 and -103/-104 kits. Replacement of any part of the old hose/quick-disconnect/check valve assembly will be with the hose and associated hardware listed in this bulletin.

FAA APPROVAL:

The engineering design aspects of this bulletin are FAA approved.

MANPOWER:

It is estimated that four (4) manhours will be required to accomplish this bulletin.

Manhours are based on "hands-on" time. Elapsed time to accomplish the required maintenance task may vary due to manpower and facilities available to the operator.

7851 58913

AN APPROPRIATE ENTRY SHOULD BE MADE IN THE AIRCRAFT LOG BOOK UPON ACCOMPLISHMENT
IF OWNERSHIP OF AIRCRAFT HAS CHANGED PLEASE FORWARD TO NEW OWNER

MATERIALS:

The following materials are required to accomplish this bulletin on both aux fuel tanks, left and right, and can be purchased through your local Bell Helicopter Textron Supply Center:

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity</u>
214-066-334-101	Hose Assembly	2 ea.
214-066-335-101	Fitting Assembly	2 ea.
214-066-336-107	Fitting Assembly	2 ea.
214-066-337-101	Cover Assembly	2 ea.
MS29513-228	Packing	2 ea.
MS29513-243	Packing	2 ea.
AN960JD10	Washer	32 ea.
AN960JD416	Washer	20 ea.
MS3367-7-9	Strap	8 ea.
NAS1738MW4-2	Rivet	7 ea.
NAS6603-6	Bolt	32 ea.
NAS6604-3	Bolt	8 ea.
NAS6604-4	Bolt	12 ea.
MILS8802CLB2 PT	Sealant	1 pt.

SPECIAL TOOLS:

None required

WEIGHT AND BALANCE:

Not affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

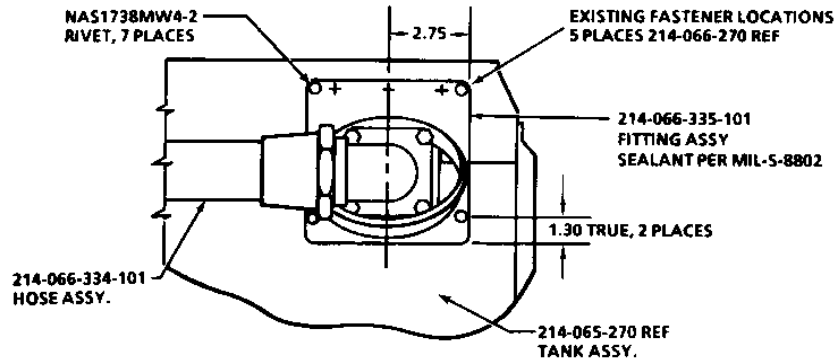
214ST Maintenance Manual, Chapter 28
214ST Illustrated Parts Catalog, Chapter 28-20-00, Figure 8 and Figure 8A.

PUBLICATIONS AFFECTED:

214ST Maintenance Manual, Chapter 28
214ST Illustrated Parts Catalog, Chapter 28

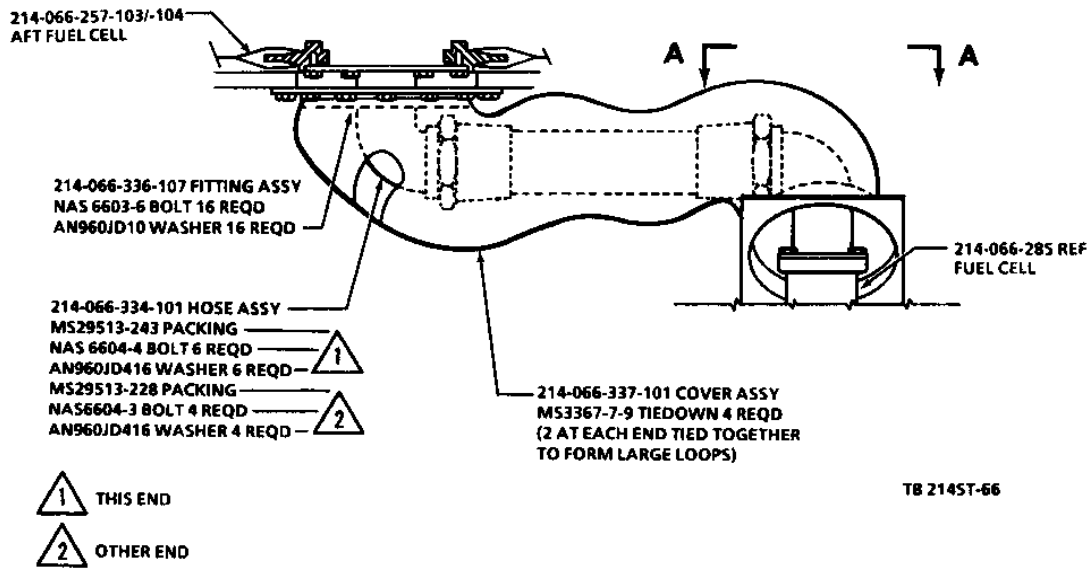
ACCOMPLISHMENT INSTRUCTIONS: (Each side):

1. Prepare helicopter for maintenance. Disconnect battery or external power.
2. Defuel helicopter and purge fuel system.
3. Remove auxiliary fuel tanks, P/N 214-066-270-101 and -102.
4. Remove check valves, P/N 214-066-603-101 or -103, from fuel cells, P/N 214-066-270. Discard.
5. Remove elbows, P/N 214-066-292-101, from auxiliary fuel tanks, P/N 214-066-270. Discard.
6. Rework cover assemblies, P/N 214-066-270-105/-106 by removing bracket, P/N 214-066-270-159, and bracket, P/N 214-066-270-199, from -105/-106 cover assemblies. Discard. Reference 214ST Illustrated Parts Catalog, Section 28-10-00, Figure 3, Item 16, and to Figure 2.
7. Install fitting assemblies, P/N 214-066-336-107 into aft fuel cells, P/N 214-066-257 using bolts, P/N NAS6603-6, and washers, P/N AN960JD10. Reference Figure I.
8. Install fitting assemblies, P/N 214-066-335-101, onto aux tank, assemblies, P/N 214-066-270, using sealant, P/N MIL-S-8802, rivets, P/N NAS1738MW4-2. Reference Figure I, View A-A.
9. Install cover assemblies, P/N 214-066-337-101 over hose assemblies. Install hose assemblies, P/N 214-066-334-101, onto fuel cell fitting assemblies with packings, P/N MS29513-243, bolts P/N NAS6604-4, and washers, P/N AN960JD416. Install hose assembly onto auxiliary fuel tank fitting with packing, P/N MS29513-228, bolts, P/N NAS6604-3, and washers, P/N AN960JD416. Reference Figure I.
10. Use tie-down straps, P/N MS3367-7-9 (2 at each end tied together to form large loops) to hold cover in place.
11. Connect drain lines to fitting on P/N 214-066-337-101 cover assemblies.
12. Refuel helicopter and check for fuel leaks.
13. When an auxiliary fuel tank assembly is removed, a P/N 214-066-259-101 plate must be installed using existing hardware. Stow plate with loose equipment when not in use.



VIEW A - A

214-066-337 COVER ASSY OMITTED FOR CLARITY



TB 214ST-66

AUX FUEL KIT
 FIGURE 1

TB 214ST-66

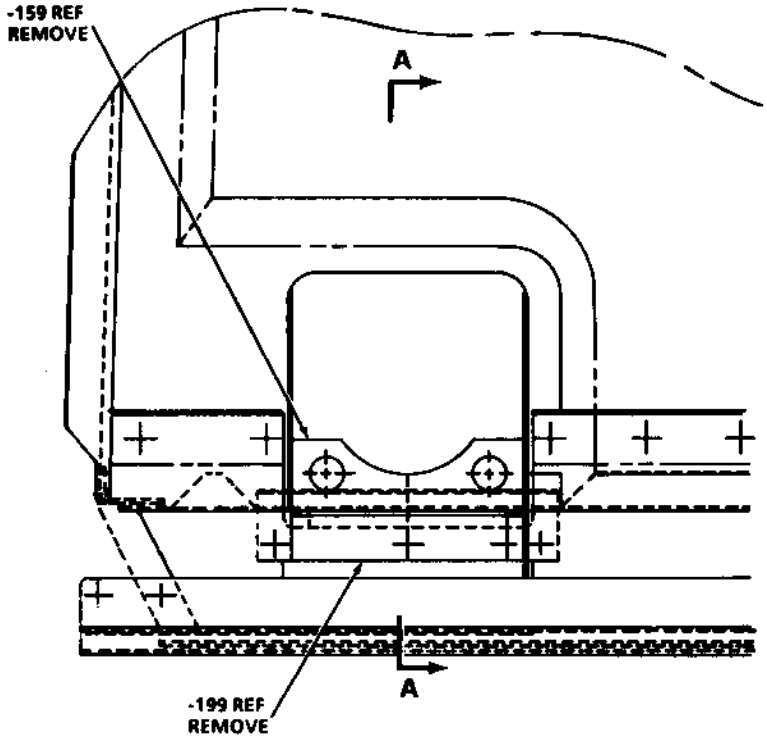
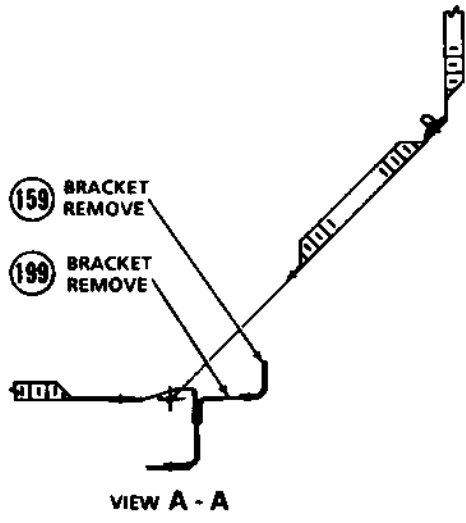


FIGURE 2.