

**TECHNICAL BULLETIN**  
**Bell Helicopter** **TEXTRON**

A Subsidiary of Textron Inc.

No. 214ST-02-170

Date 08-30-02

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DATE
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**MODEL AFFECTED:** 214ST

**SUBJECT:** INTRODUCTION OF P/N 214-060-056-109  
ELECTRIC STARTER MOTOR

**HELICOPTERS AFFECTED:** All Model 214ST Helicopters

**COMPLIANCE:** At Customer's Option

**DESCRIPTION:**

A new design electric starter motor, P/N 214-060-056-109, has been approved for use on the 214ST. The -109 features new internal components that have been designed to improve reliability and serviceability. This new motor is a direct replacement for the current -103 electric starter motor.

P/N 214-060-056-109 is being introduced through a limited exchange program. Refer to the ACCOMPLISHMENT INSTRUCTIONS.

**APPROVAL:**

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

**MANPOWER:**

Approximately 3.0 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.

<u>Part Number</u>	<u>Nomenclature</u>	<u>Quantity*</u>
214-060-056-109	Electric Starter Motor	2

\*Quantity noted is per helicopter.

P/N 214-060-056-109 Electric Starter Motor is available on a limited exchange basis at special pricing. Refer to Accomplishment Instructions, Part II.

**SPECIAL TOOLS:**

None required

**WEIGHT AND BALANCE:**

Not Affected

**ELECTRICAL LOAD DATA:**

Not affected

**REFERENCES:**

BHT-214ST-IPB Illustrated Parts Breakdown, Chapter 96

BHT-214ST-MM Maintenance Manual, Chapter 96

BHT-214ST-CR&O-V.2 Component Repair & Overhaul Vendor Data Book 2, Chapter 80

**PUBLICATIONS AFFECTED:**

BHT-214ST-IPB Illustrated Parts Breakdown, Chapter 96

**ACCOMPLISHMENT INSTRUCTIONS:**

**PART 1 – STARTER INSTALLATION AND SERVICE REQUIREMENTS**

1. Refer to the 214ST Maintenance Manual, Chapter 96, for starter removal and installation procedures.

2. The P/N 214-060-056-109 Electric Starter Motor overhaul interval is established at 750 hours. All other maintenance requirements, i.e. brush and clutch inspections, are identical to that for the –103 Starter Motor.

## **PART II – STARTER EXCHANGE PROGRAM**

1. The P/N 214-060-056-109 Electric Starter Motor is available at a special exchange price of \$30,800 each. This special price is valid through June 30, 2003. Exchange orders received on July 1, 2003 or later will be subject to a higher exchange price.
2. Exchange Process:
  - a. Order an exchange –109 Starter through your normal BHT spares source. Request a Return Material Authorization (RMA) at the time you order the -109 for exchange. You will be billed for the starter reconditioned price less your normal discount, if applicable.
  - b. Return a –103 Starter to BHT with a copy of the exchange invoice and the “RMA”. The assigned “RMA” number should be referenced on the shipping documents. It will be used by BHT to uniquely identify and track the returned item(s) throughout the return/exchange process. Upon receipt of the –103 Starter, a credit will be issued for the difference between the reconditioned price and the exchange price.

**NOTE:** Ensure the –103 Starter Assembly original Historical Record Card is included with the return shipment.