



**ECCN**  
**9E991**

# **AERONAUTICAL ACCESSORIES, INC.**

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## **ALERT SERVICE BULLETIN**

**ASB No. AA-09107**

**No Revision**

**February 24, 2010**

**SUBJECT:** **Cockpit Voice / Flight Data Recorder  
412-634-001 / 412-634-003**

**MODELS AFFECTED:** Bell Helicopter Textron model 412EP helicopters with Aeronautical Accessories Inc. Cockpit Voice / Flight Data Recorder (CV/FDR) Kit (412-634-001 / 412-634-003) installed in accordance with Aeronautical Accessories, Inc. (AAI) Installation Instructions, report AA-05153, revision J or earlier approved revisions and AAI Electrical Installation Drawing 412-628, revision H or earlier approved revisions; per STC SR01278NY-D (formerly SR01278NY); Transport Canada Civil Aviation STC SH01-20; or EASA STC EASA.IM.R.S.01307.

**COMPLIANCE:** Upon receipt of bulletin.

**DESCRIPTION:** This Alert Service Bulletin is being issued to prevent a possible loss of recorded CV/FDR data.

**FAA APPROVAL:** The engineering design change represented by this Alert Service Bulletin complies with applicable Federal Aviation Regulations and is FAA approved.

**MANPOWER:** Approximately 2 hours

**IF OWNERSHIP OF AIRCRAFT HAS CHANGED, PLEASE FORWARD THIS BULLETIN TO NEW OWNER**

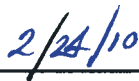
**LOG OF REVISIONS**

Date	Revision	Description	Affected Pages
02/24/10	NR	Original Release	All

**Reviewed:**

  
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Engineering

  
\_\_\_\_\_

Date

  
\_\_\_\_\_

Airworthiness

  
\_\_\_\_\_

Date

**SPECIAL TOOLS:** None

**WEIGHT AND BALANCE:** Not significant

**ELECTRICAL LOAD DATA:** Not affected

**REFERENCES:**

Aeronautical Accessories, Inc. Installation Instructions, report AA-05153, revision J (and prior revisions)

Aeronautical Accessories, Inc. drawing, Electrical Installation – CV/FDR, 412-628, revision H (and prior revisions)

**PUBLICATIONS AFFECTED:**

Aeronautical Accessories, Inc. Instructions for Continued Airworthiness, report AA-05064

**ACCOMPLISHMENT INSTRUCTIONS**

The CV/FDR is currently wired in accordance with Aeronautical Accessories, Inc. Installation Instructions, report AA-05153, revision J (and prior revisions) and drawing, Electrical Installation – CV/FDR, 412-628, revision H (and prior revisions) (Figure 1). Accomplishment of this bulletin will upgrade CV/FDR installation in accordance with Aeronautical Accessories, Inc. Installation Instructions, report AA-05153, revision K (and later revisions) and drawing, Electrical Installation – CV/FDR, 412-628, revision I (and later revisions) (Figure 2).

1. Prepare the helicopter for maintenance. Disconnect the aircraft battery.
2. Gain access to the mounting location of the ROTOR RPM LOW RELAY (typical, aircraft upper nose shelf).
3. De-pin wires FDR283A22N (A2), FDR283A22 (A1), FDR280A22 (X1), and FDR281A22N (X2) from ROTOR RPM LOW RELAY. Remove Rotor RPM Low Relay.
4. Remove ground wires FDR283A22N and FDR281A22N.
5. From ENGINE 1 OUT RELAY (A2), run wire FDR283A22 to ground.
6. De-pin wire FDR280A22, with diode 1N4005 attached, from terminal block 8TB2 (TZ). Remove wire FDR280A22.
7. Modification complete. Perform post installation test procedure, CVR Stop Record Check, in accordance with Section 5 of Installation Instructions, report AA-05153, revision K or later approved revision. Return aircraft to service.
8. Annotate the helicopter historical records with accomplishment of this Bulletin.

Any questions regarding this bulletin should be addressed to:

**AERONAUTICAL ACCESSORIES, INC.**  
**P.O. Box 3689**  
**Bristol, TN 37625-3689**  
**PRODUCT SUPPORT**  
**1-800-251-7094**

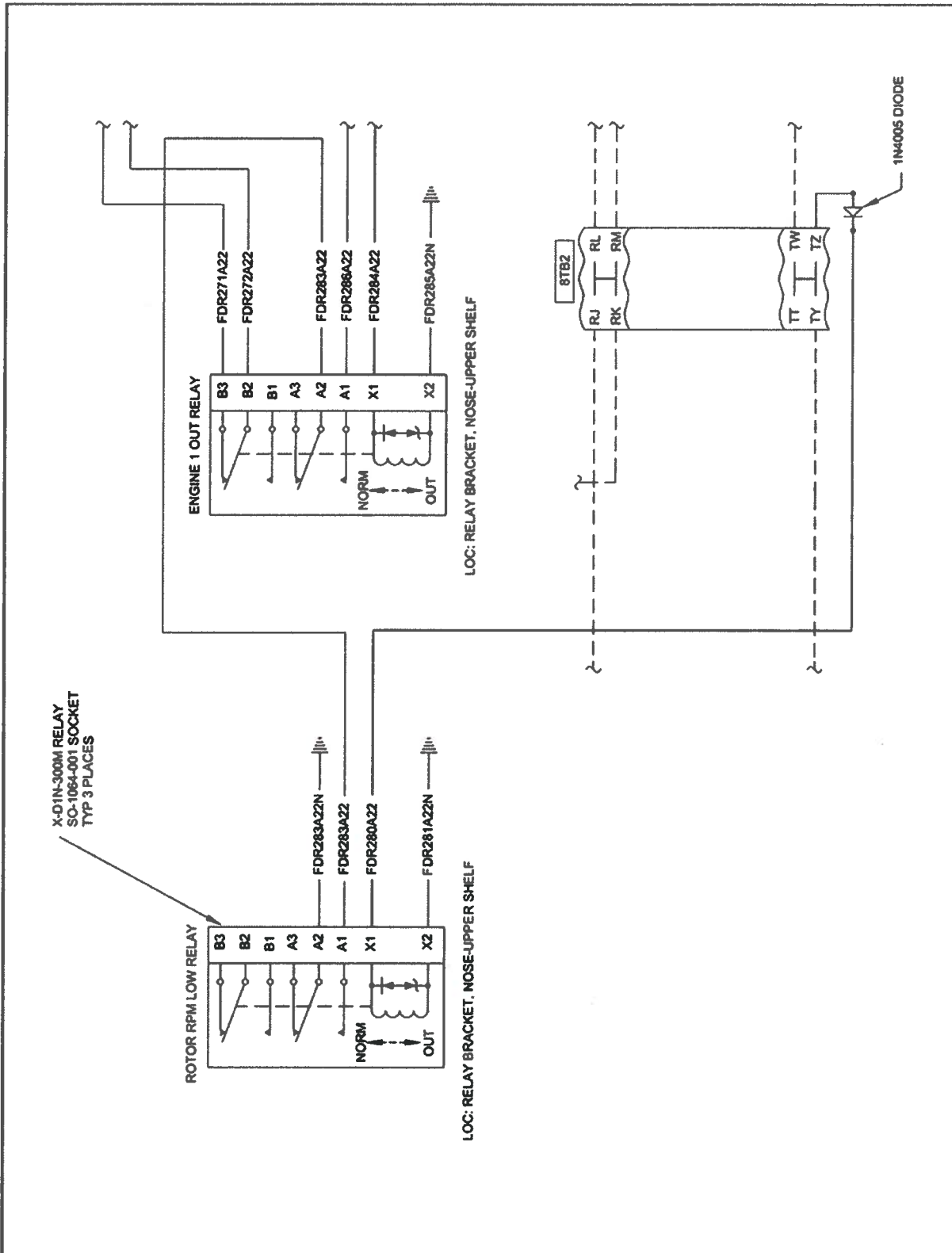
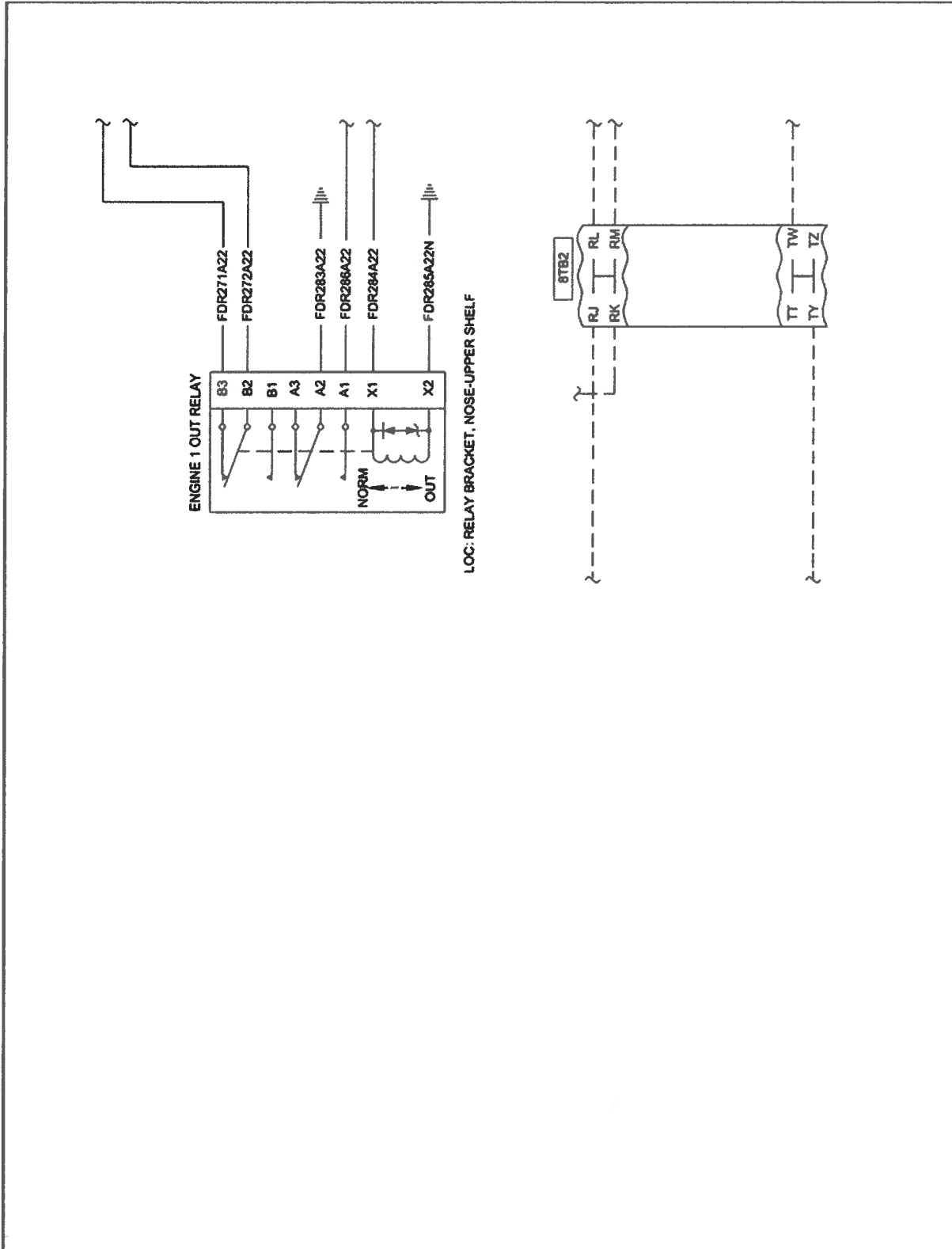


Figure 1. Original Configuration



**Figure 2. New Configuration**