

L3 COMMUNICATIONS FA2100 COCKPIT VOICE RECORDER - MAINTENANCE PRACTICES

1. General

- A. Maintenance of the optional L3 Communications FA2100 Cockpit Voice Recorder System (SSCVR) consists of removal/installation of the aft avionics shelf mounted components and removal/installation of the instrument panel mounted SSCVR control panel. The system consists of a mounted recorder unit, CVR Adapter, panel mounted S162 Control Panel and an impact switch (5G) located under the cockpit voice recorder on the aft avionics shelf.

2. Tools and Equipment

- A. For a list of tools and equipment, refer to Communications - General.

3. FA2100 Cockpit Voice Recorder Removal/Installation

- A. Remove FA2100 Cockpit Voice Recorder (Refer to Figure 201).

NOTE: The voice recorder unit is tray-mounted on the avionics shelf in the tailcone at RBL 8.80, WL 136.92 between FS 370.80 and FS 385.60. Access to the CVR is from the aft side of the avionics shelf.

- (1) Disengage the cockpit circuit breaker located on the left circuit breaker panel.
- (2) Get access to cockpit voice recorder through the aft tailcone entrance.
- (3) Cut and remove the safety wire between the knurl nuts located on the forward side of the mounting tray.
- (4) Loosen the knurl nuts and the unlatching locking mechanism located on the front of the mounting tray.
- (5) Carefully move the FA2100 cockpit voice recorder straight forward from the mounting tray.
- (6) Remove the FA2100 cockpit voice recorder from airplane.

- B. Install FA2100 Cockpit Voice Recorder (Refer to Figure 201).

- (1) From the aft side of the avionics shelf, put the FA2100 cockpit voice recorder on the mounting tray and slide in until the electrical connectors are firmly engaged.
- (2) Secure the FA2100 cockpit voice recorder to tray by engaging the locking mechanism.
- (3) Engage the tightening mechanism and tighten and safety wire the knurl nuts together on forward side of the mounting tray. Refer to Chapter 20, Safetying - Maintenance Practices.

4. Impact Switch (5G) Removal/Installation

- A. Remove Impact Switch (5G) (Refer to Figure 201).

- (1) Remove electrical power from the airplane.

CAUTION: The CVR and FDR are linked to the same impact switch circuit. If one circuit breaker is disengaged, the other circuit breaker must be disengaged.

- (2) Disengage cockpit voice recorder circuit breaker and if installed, the FDR circuit breaker located on the left circuit breaker panel.
- (3) Get access to the impact switch (5G), located under the aft avionics shelf, near the cockpit voice recorder.
- (4) Disconnect electrical connector from impact switch (5G).
- (5) Remove the screws that attach the impact switch (5G) to the shelf.
- (6) Remove impact switch (5G) from airplane.

- B. Install Impact Switch (5G) (Refer to Figure 201).

- (1) Install impact switch (5G) to the shelf with screws.
- (2) Connect electrical connector to impact switch (5G).

5. Cockpit Voice Recorder Control Panel Removal/Installation

- A. Remove Cockpit Voice Recorder Control Panel (Refer to Figure 201).

NOTE: The cockpit voice recorder S162 Control Panel is normally located at the bottom of the right radio panel on the instrument panel.

- (1) Disengage the cockpit voice recorder circuit breaker, located on the left circuit breaker panel.
- (2) Release the Dzus fasteners that attach the cockpit voice recorder control panel assembly to the instrument panel.
- (3) Remove the cockpit voice recorder control panel from the instrument panel.
- (4) Disconnect electrical connector from the cockpit voice recorder control panel.

(5) Remove the cockpit voice recorder control panel from airplane.

B. Install Cockpit Voice Recorder Control Panel (Refer to Figure 201).

- (1) Position the cockpit voice recorder control panel in the mounting position in the instrument panel.
- (2) Connect electrical connector to the cockpit voice recorder control panel.
- (3) Install the cockpit voice recorder control panel in the instrument panel, attaching with Dzus fasteners.
- (4) Engage the cockpit voice recorder circuit breaker, located on the left circuit breaker panel.

6. CVR Adapter Removal/Installation

NOTE: Removal of both pilot's and copilot's CVR adapter is typical. The CVR adapter is located on the forward side of the pedestal.

A. Remove CVR Adapter (Refer to Figure 201).

- (1) Disconnect the CVR circuit breaker.
- (2) Disconnect electrical connector from the CVR adapter.
- (3) Remove screws that attach the CVR adapter to the bracket.
- (4) Remove the CVR adapter from the airplane.

B. Install CVR Adapter (Refer to Figure 201).

- (1) Put the CVR adapter in place and secure with screws.
- (2) Connect electrical connector to the CVR adapter.
- (3) Connect the CVR circuit breaker.

Figure 201 : Sheet 1 : Cockpit Voice Recorder and Impact Switch Installation

