



SERVICE INSTRUCTION

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EFFECTIVE DATE: This Service Instruction is effective March 31, 2008

SUBJECT: AmSafe Aviation Inflatable Restraint System

MODELS AFFECTED: CC11-100 or CC11-160 S/N 00026 AND ON

PURPOSE: Install AmSafe Aviation Inflatable Restraint System

PARTS LIST:

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY</u>
SP20300-001	AmSafe Airbag Harness Kit	1
AN3-20A	Bolt	3
AN3-22A	Bolt	1
AN936-A10	Washer, lock	1
AN960-10L	Washer, flat, thin	9
AN315-1032	Nut	9
HDW-7582K12	Cable Tie Mount, 4-way	2
RM1071-003	Cable Tie, 8"	2
RM1071-002	Cable Tie, 5.5"	16
MS24693272	Machine screw	8
MS35338-43	Washer, lock	8

INSTRUCTIONS:

1. Remove Sling Seat Holder.
2. Locate two EMA Assembly brackets in aft baggage compartment. (Upper, RH, forward corner.) Drill the *inboard* hole on the *aft* bracket using a #12 drill. All other holes have machined threads.
3. Attach the EMA box with arrow pointing forward as follows:
 - a. Apply Loctite 242 (obtained locally) on threads of all three (3) AN3-20A bolts and install in threaded locations. (See Figure 1) Leave bolts loose until all have been started.
 - b. Install AN3-22A bolt through the EMA clip, the inboard, aft hole of the EMA box, and upper bracket. Above the bracket install thin washer (AN960-10L), Lock Washer (AN936-A10), and Nut (AN315-1032). Tighten AN3-22A bolts (3) and nut (1) to $6 \pm .2$ in-lbs or until lock washers are flush. Orient clip as shown in Figure 1.

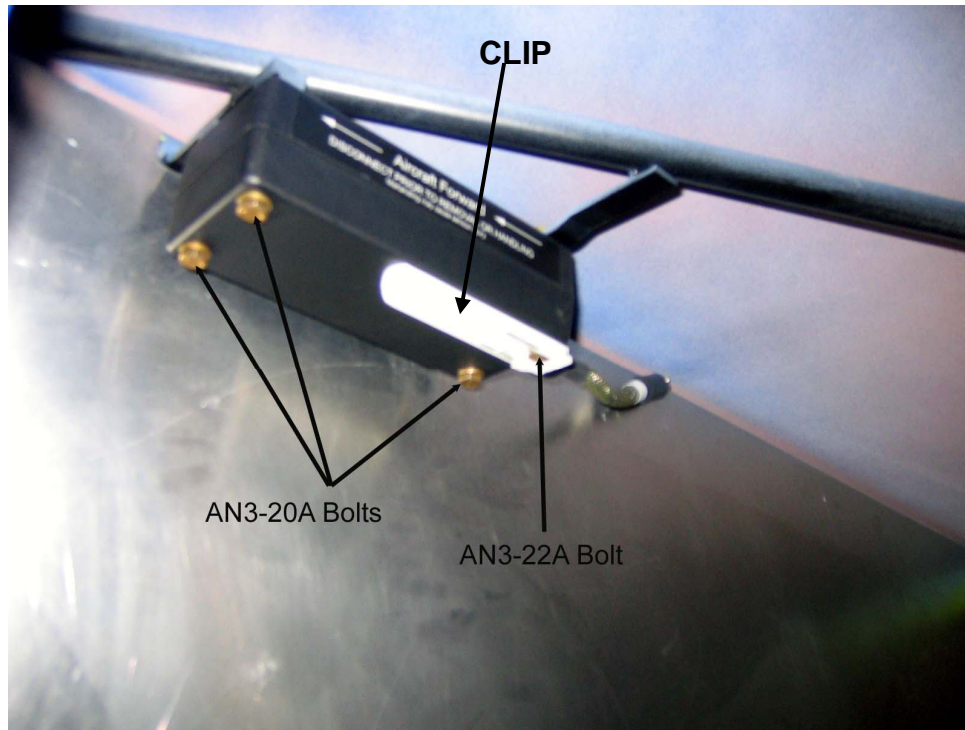


FIGURE 1: EMA Box Installation

NOTE:

Be sure the label on the EMA unit is showing. This will allow the owner and/or Service Center to read the Manufacture Date and Serial Number without removing the EMA unit.
EMA unit refurbishment date comes due in 7 years.

4. Install friction tape or similar product on tube where wiring contacts tubes. Install two cable tie mounts (HDW-7582K12) on rear spar carry-through. See Figure 2.



FIGURE 2 – Cable Tie Mount Installation



FIGURE 3 – Cable Tie Installation

5. Route wiring along rear spar carry through and skylight v-brace. Secure wiring with 5.5" cable ties (RM1071-002) along tubes and to mounts. Be sure to leave enough slack to enable connecting the yellow connectors at each end. See Figures 2 and 3.
6. Cut fabric away from aft panel hole next to the shoulder harness attach points. Use 8" Cable Tie (RM1071-003) to attach wire to itself through the hole. See Figure 4.

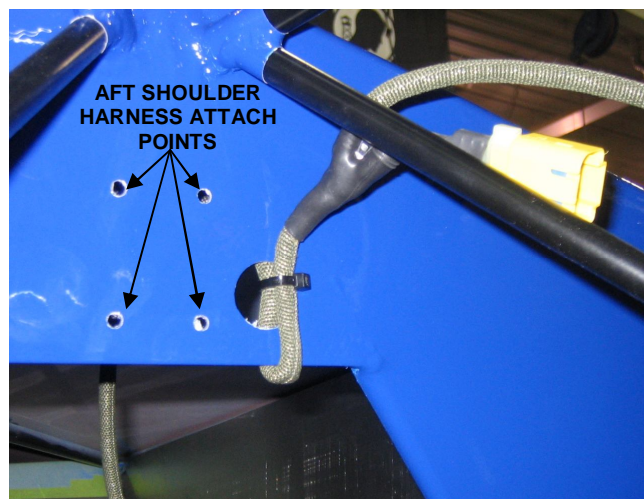


FIGURE 4 – Aft Panel Hole Location

7. Attach connector to EMA clip. See Figure 5.

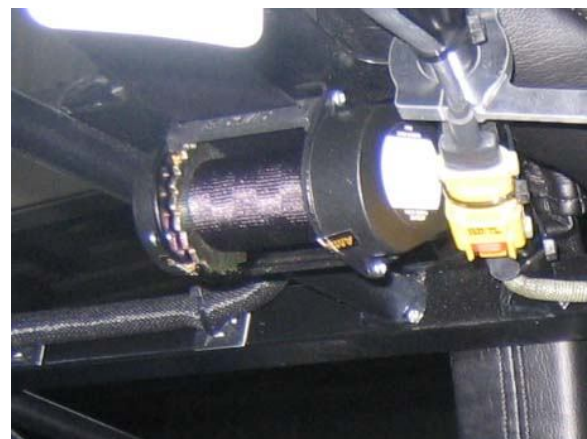


FIGURE 5

8. Assemble Front and Rear Seat Restraint Assemblies according to manufacturer's instructions.
9. Install Restraint Assemblies with machine screws (MS24693S272), lock washers (MS35338-43), thin washers (AN960-10L) and nuts (AN315-1032). Torque to 40 in-lbs. See Figure 6.



AFT BELT INSTALL



FWD BELT INSTALL

FIGURE 6



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10. Connect yellow connectors at each end and engage red button. Secure with 5.5" cable ties (RM1071-002) on both ends of connector. See Figure 2.
11. Connect wire harness to EMA cable.
12. Perform diagnostic test according to manufacturer's instructions.
13. Remove existing lap belts. REUSE existing hardware to install new lap belts.

NOTE:

Ensure existing washers under floorboard remain in place when reinstalling lab belt bolts.

14. Place "AMSAFE Supplemental Instructions for Continued Airworthiness" documentation in the Aircraft Maintenance Manual.