The optional FC-XRM70 Transformer Module can be used to convert the 25 V$_{RMS}$ amplifiers to 70.7 V$_{RMS}$ amplifiers. Transformer connector J1 plugs into amplifier connector P1.

CAUTION! Make certain to observe all of the following conditions:
1. *Remove all power (AC and DC) before making any connections.*
2. *Install the FC-XRM70 option module ONLY on Voice Evacuation Control Panels with the following printed circuit cards installed (refer to the VECP Installation Manual for additional information):*
   - *FC-AAM25X Audio Amplifier Module (FCAAM25-PCB stamped on the circuit board)*
   - *Main circuit board identified by software version FC25502.0 or higher (refer to Fig. 1)*
   - *Main circuit board identified by software version FCDA25501.0 or higher (refer to Fig. 2)*

FC-XRM70 Transformer Module Installation
1. Remove three mounting screws from the top left, top right and bottom right corners of the Audio Amplifier Module(s) FC-AAM25X. Refer to the illustration below.
2. Carefully unplug the Audio Amplifier Module(s) from the main circuit board connector. If two Audio Amplifier Modules are installed, note where each is positioned on the main circuit board. (Switch S1 on each amplifier may be set differently). Refer to the illustration below.
3. Install the three standoffs supplied with the FC-XRM70 Module by inserting the threaded male end of each standoff into the three holes on the component side of the FCC-AAM25X Audio Amplifier Module(s). Secure each standoff in place with a supplied nut. Refer to the illustration on following page for the location of the mounting holes.
4. Reinstall the Audio Amplifier Module(s) by carefully aligning the Amplifier's J1 connector with the P4 or P3 (depending on where it was removed from in step 2) connector on the main circuit board. Press the Audio Amplifier Module securely into place, making certain not to bend or break any connector pins.
5. Secure the Audio Amplifier Module(s) with the screws removed in step 1.
6. Remove the two factory installed jumpers from connector P1 of the Audio Amplifier Module(s). Refer to the illustration on the following page.
7. Carefully align the J1 connector on the FC-XRM70 Transformer Module(s) with the P1 connector on the Audio Amplifier Module and press securely into place. Make certain the pins are properly aligned to prevent bending or breaking of any pins.
8. Secure the FC-XRM70 Transformer Module(s) to the Audio Amplifier Module(s) with the supplied screws.
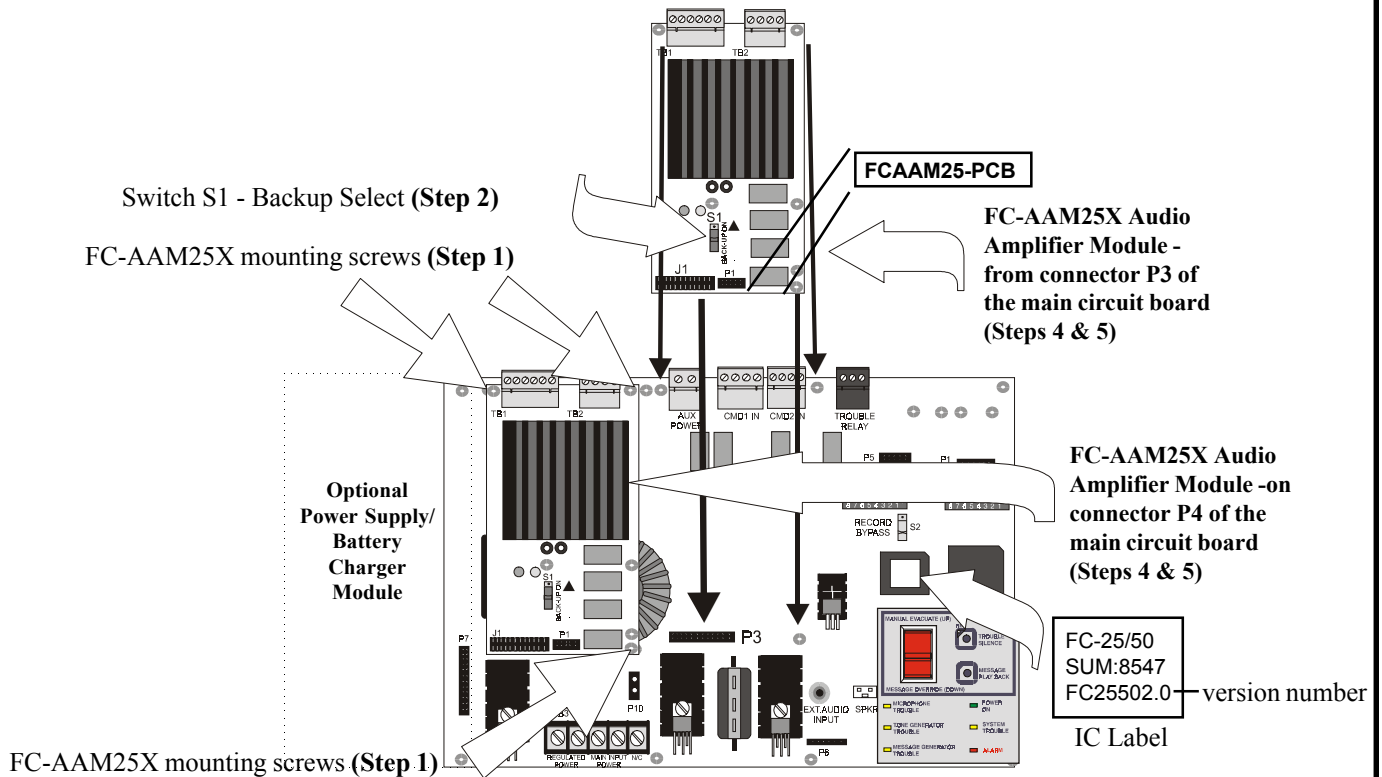

Figure 1: Main Circuit Board

Refer to the FC-XRM70 Transformer Module Installation instructions on page 1.

Switch S1 - Backup Select **(Step 2)**

FC-AAM25X mounting screws **(Step 1)**

FCAAM25-PCB

**FC-AAM25X Audio
Amplifier Module -
from connector P3 of
the main circuit board
(Steps 4 & 5)**

**FC-AAM25X Audio
Amplifier Module -on
connector P4 of the
main circuit board
(Steps 4 & 5)**

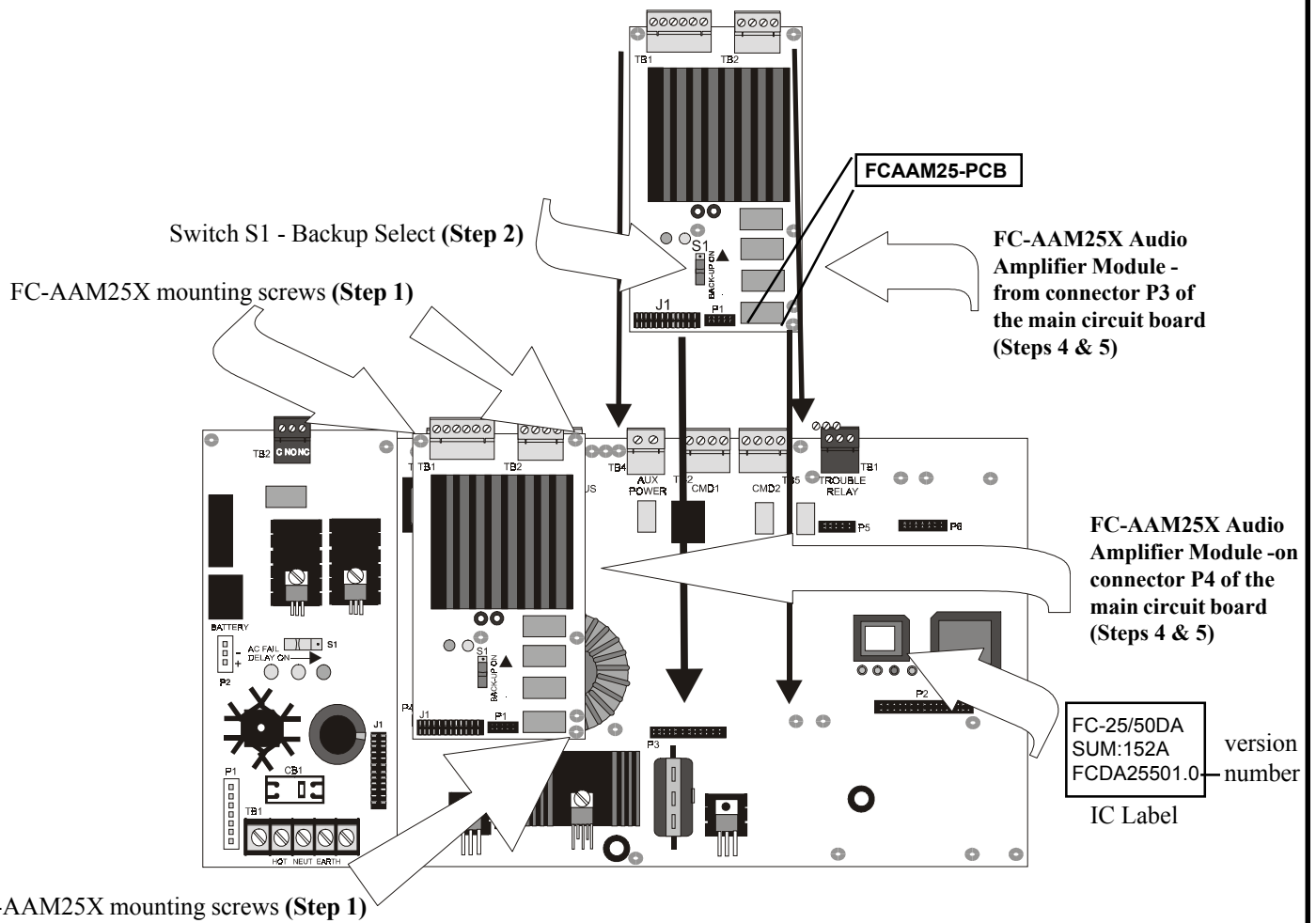FC-25/50DA
SUM:152A
FCDA25501.0 — version number

IC Label

FC-AAM25X mounting screws **(Step 1)**

Figure 2: Main Circuit Board

Insert Standoff
(Step 3)

Insert Standoff
(Step 3)

Component-side of board

**FC-AAM25X Audio
Amplifier Module**

Secure with nut
(Step 3)

TB1 TB2

S1 ON

BACK-UP ON

J1 P1

Insert Standoff
(Step 3)

Insert Standoff
(Step 3)

Insert Standoff
(Step 3)

**FC-AAM25X Audio
Amplifier Module**

**FC-AAM25X Audio
Amplifier Module**

TB1 TB2

Two Factory Installed Jumpers on P1
of Each Amplifier Module Must be
Removed to Install the FC-XRM70
Transformer Module **(Step 6)**

BACK-UP ON

P1

P1

T1

J1

**FC-XRM70
Transformer Module
(Steps 7 & 8)**