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NFC-BDA-25/70V Optional Amplifier Product Installation Document

PN LS10035-001NF-E:A 4/19/2013 13-187

1 Overview

An optional second audio amplifier can be plugged into connectors J10 & J11 located in the upper right of the main control board in the NFC-50/100. This amplifier also provides 50 watts of power at 25 V_{RMS} or 70 V_{RMS}, depending on the model, and can therefore be used to expand system power to 100 watts (providing dual 50 watt speaker circuits) or it can be used as a backup amplifier. The output is power-limited and speaker circuit connections to it are provided on the main control board and optional speaker circuit expander module. The circuit can be wired for Style Y (Class B) or Style Z (Class A) operation. For more information, including application examples, refer to the *NFC-50/100 Manual* P/N LS10001-001NF-E.



NOTE: Both the primary and secondary amplifiers must be same voltage output (25V or 70V).



NOTE: Installation and wiring of this device must be done in accordance with NFPA 72 and local ordinances.

2 Installation

1. Remove mounting screws shown, from the main control board, and save (refer to Figure 1).
2. Install four supplied metal standoffs (using a 1/4") socket in locations from which mounting screws were removed in Step 1.
3. Secure the Audio Amplifier Module with the screws removed in Step 1. It is important to secure the module with the metal screws in order to help protect against electrical transients.
4. Plug the supplied power cable into J10 on the main control board, then into J1 on the audio amplifier. Plug the supplied control cable into J11 on the main control board, then into J2 on the audio amplifier.
5. Configure the slide switch, SW6, on the amplifier for 50W operation. Only the 50W setting is compatible. *Do not use any other setting.*
6. Configure the slide switch, SW5, on the main control board for 25V or 70V operation. (70V operation requires the optional amplifier model NFC-BDA-70V and the NFC-XRM-70V transformer, sold separately.)
7. Connect field wiring to TB21 on the main control board (if not using the amplifier as backup). Refer to the *NFC-50/100 Manual* for illustration of speaker connections.
8. Configure the Audio Amplifier for primary or backup operation, and 70V operation, through the web-based programming utility.

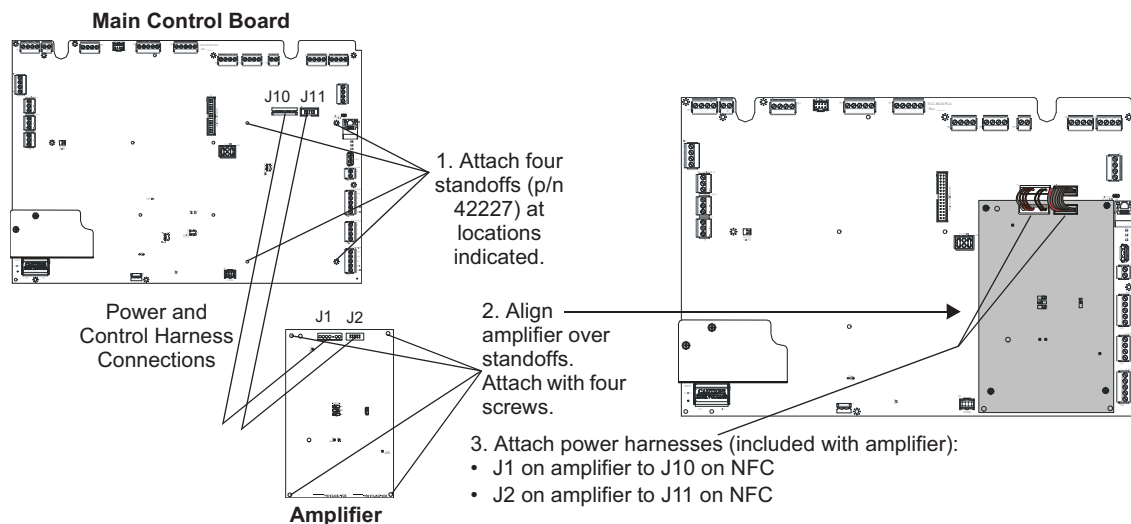


Figure 1 NFC-BDA-25/70V Installation

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BDA-25-70.mwf
bdaamt.wmf