

INSTRUCTION MANUAL
CUE TONE RECEIVER
MODEL 948A/AX
S/N _____

IF FOR SOME REASON YOU HAVE TO
RETURN THIS ITEM TO THE FACTORY
FOR ANY SERVICE OR REPAIR, YOU
MUST CONTACT CUSTOMER SERVICE
FOR AN **RMA** NUMBER AT (585)-765-2254.



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Phone: (585)-765-2254 FAX: (585)-765-9330

P/N 1340177

REVISION DATE: 03/00
REVISION: A

WARRANTY

Monroe Electronics, Inc. warrants to the owners, each instrument and sub-assembly manufactured by them to be free from defects in material and workmanship for a period of one year after shipment from factory. This warranty is applicable to the original purchaser only.

Liability under this warranty is limited to service, adjustment or replacement of defective parts (other than fuses or batteries) on any instrument or sub-assembly returned to the factory for this purpose, transportation charges prepaid.

This warranty does not apply to instruments or sub-assemblies subjected to abuse, abnormal operating conditions, or unauthorized repair or modification.

Since Monroe Electronics, Inc. has no control over conditions of use, no warranty is made, or implied as to the suitability of our product for the customer's intended use.

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In the event of a breach of the foregoing warranty, the liability of Monroe Electronics shall be limited to repairing or replacing the non-conforming goods and/or defective work, and in accordance with the foregoing, Monroe Electronics shall not be liable for any other damages, either direct or consequential.

RETURN POLICY TO FACTORY:

Materials returned to Monroe must have a Return Material Authorization number. To obtain a RMA number, contact our A/V Switching & Control Customer Service at 585-765-2254 or fax 585-765-9330. Customers have 30 days to determine that the product ordered fills their need and performs as described in Monroe's literature. Units returned for approved repair or credit, must be in the original packaging including all parts and paperwork plus be in very good physical condition. If not, the customer is billed the cost to refurbish the unit and for missing accessories and merchandise. No products may be returned for exchange or credit after 12 months of the shipment date. Monroe reserves the right to repair or replace units under warranty.

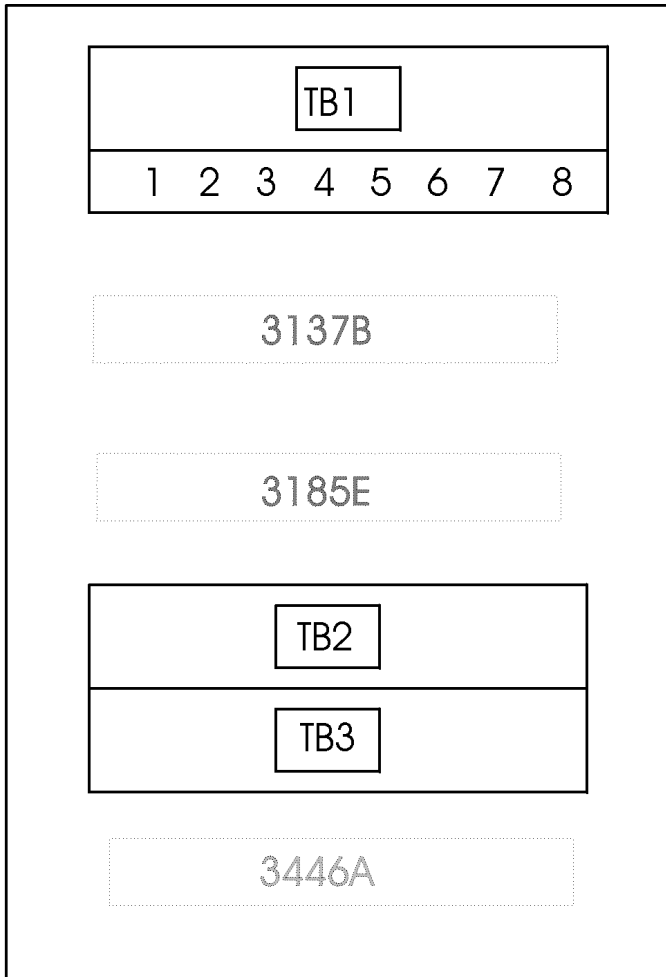
GENERAL DESCRIPTION

The Model 948A/AX Cue Tone Receiver is a small wall mounted enclosure containing a group of PC boards, in plus a power unit. The Model 948A contains a Model 3137B UAD, a Model 3185D(E) Dual Tone Decoder, a Model 3446A Stereo Audio/Video Switch, and a Model 427A, wall mounted power supply. The Model 948AX contains all the above parts, EXCEPT the Model 3137B UAD.

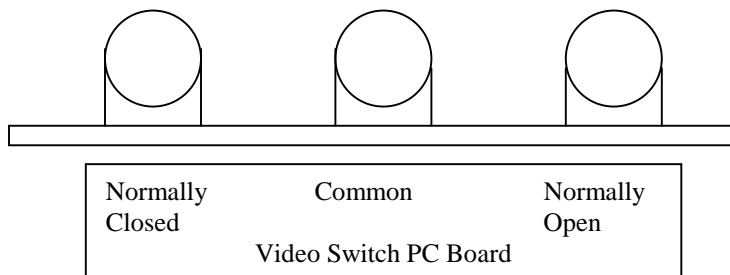
The units are designed to switch an Stereo Audio-follow-Video or IF/RF signal if the proper DTMF tone sequence is entered. These signals may be received from various audio sources, including satellite audio or microwaves. In the Model 948A, the unit may also be controlled via a dial up telephone line.

INSTALLATION

1. Remove the two screws holding the cover on the 948A and remove the cover.
2. The Model 3185D(E) is factory set to decode a 4-digit 'ON' code sequence and a 4-digit 'OFF' code sequence. The first three digits in the code sequence are determined by the hexadecimal rotary switches on the front edge of the 3185D(E). 0 through D select the corresponding DTMF digit to be decoded. The letter 'E' on the rotary switch represents the '*' DTMF digit and the letter 'F' on the rotary switch represents the '#' DTMF digit. The fourth digit for the 'ON' code sequence is factory set to '*', and fourth digit for the 'OFF' code sequence is set to '#'. Set the rotary switches on the 3185D(E) to the Cue Tone sequence you wish to decode. See the 3185D(E) manual for more information.
3. The Cue Tones may be received by the Model 948A from the alternate program source (baseband audio) or other audio subcarriers. If so, connect an audio cable from the Cue Tone source to TB1 #4 with common on TB1 #5 (ground). If installing a 948AX, connect Cue Tone Audio to TB2 #8 and TB1 #5 (ground).
4. Connect the video from the main program source to the normally closed (NC) F connector on the 3446A card.
5. Connect the video from the alternate program source to the normally open (NO) F connector on the 3446A.
6. Connect the modulator video input to the common (COM) F connector on the 3446A card.
7. Connect the Left and Right Audio inputs, and the Audio output, to the screw terminals on the mother board as shown in the accompanying schematic.
8. Connect the Black/White (+12) lead from the 427 Power Supply to TB1 #7 and the Black (GND) lead from the 427A to TB1 #6.
9. If your model is a 948A, the audio tones may be supplied over the telephone line and/or from an audio source as described above. If the signals come ONLY over the telephone line, disregard item 3 above.
10. Attach the Tip and Ring lines from the POTS line to the connections as shown on the attached drawing.
11. The 3137B is set to answer on 2 rings, and hang up on current disconnect when the calling party hangs up. See the 3137B manual for more information.



**SCREW TERMINAL SIDE (BACK)
OF INTER-CONNECT PC BOARD.
PLUG IN BOARDS ON OTHER SIDE.**



GENERAL OPERATION

The Model 3185D(E) Dual Tone decoder monitors the audio at TB #1 pin 4 for the specific four digit Cue Tone 'ON' code sequence to which it is programmed to respond. When it receives the correct code, the 3185D(E)'s relay energizes, which supplies ground to the 3446A Relay card, energizing it's relays. This switches in the alternate audio/video program source.

The 3185D(E) continues to monitor the audio at TB1 #4 and when it receives the correct 'OFF' code sequence, it de-energizes it's relay and de-energizes the relays on the 3446A card. This returns it back to the main program source.

If the Model 3137B UAD has answered the telephone line, the above connection is isolated, and tones supplied over the telephone line are used – as above – to activate the device.

