

# McIntosh

## THX-M<sup>®</sup> MODULE INSTALLATION INSTRUCTIONS

### CAUTION

Incorrect installation procedure could possibly damage the THX-M, the C39 or the MX130 Control Centers. Three different versions of the C39 and MX130 have been manufactured. They are identified by their serial numbers. Before attempting to install the THX-M, please refer to the instructions that match the serial number of the unit.

*The McIntosh THX-M Module is designed to add Home THX<sup>®</sup> Audio Signal Processing circuits to a McIntosh C39 or MX130 Audio/Video Control Center. The THX-M becomes operational when the Control Center Mode Switch is turned to Cinema2. And will enhance the Dolby Pro Logic decoded sound tracks.*

#### CONTENTS OF THX-M CARTON

- THX-M card.
- 5 conductor cable with one end connected to the THX-M.
- Hardware Package with the following included.
  - 2, 4-40 by 1/4 inch Pan Head Screws.
  - 2, 3/4 inch standoff extensions
  - A Terminator plug.

(The Terminator plug is only needed with C39, Serial Numbers HF3103 & higher, and MX130, Serial Numbers LS1231 and higher.)

**THE INFORMATION BELOW REFERS ONLY TO  
6 CHANNEL EXTERNAL PROCESSOR INPUT MODELS  
C39, Serial Numbers NC1001 and higher.  
MX130, Serial Numbers ND1001 and higher.**

1. Remove the 8 top cover screws and lift off the Control Center top cover.
2. With the front panel facing you, locate the long narrow connecting circuit card, (to the left of the power transformer), mounted on stand-offs in the center area of the Control Center.
3. Disconnect the 20 conductor ribbon connector from its socket on the long circuit board that contains the Mode and Delay switches, behind the front panel. Carefully lift up and reposition the ribbon with its connector towards the rear. Also remove the 9 conductor ribbon connector from its socket on the front panel circuit board and carefully reposition it towards the rear in a similar manner.

NOTE: The temporary removal of these two ribbons will greatly facilitate the THX-M installation.

4. Remove the two mounting screws that hold the connecting card to the standoff posts and lift the card up away from the standoff posts.
5. Carefully disconnect the five interconnecting plugs with ribbon cables from the connectors on the connecting card. (This card will no longer be needed, however please save this card in case the THX-M is removed in the future.) Save the mounting screws, since they will be needed to mount the THX-M.
6. The THX-M card has a small companion card positioned at the right, interconnected to the main card with two plug in connectors. Carefully position the THX-M card with its small companion card to the right, next to the power transformer, over the four standoff post extensions. The edge of the THX-M card with the row of connectors should be towards the rear of the C39 or MX130.
7. Connect the five ribbon cables with connector plugs to the connector pins on the THX-M card in the same placement order as they were on the connecting card.
8. Connect the free end of the cable already connected to the THX-M, to the connecting pins labeled "**TO THX OPTION**" on the left side of the circuit card directly below the THX-M module. (Left front as looking toward the front of the unit.)
9. Secure the THX-M card, first, to the standoff posts on the left side, using the two screws originally holding the connecting card.

10. Position the small companion card up and away toward the right to access the other two mounting holes in the THX-M. Carefully screw in the two 3/4 inch standoff extensions through the two mounting holes on the right side of the THX-M into the threaded portion of the original standoffs. Reposition the companion card over the 3/4 in standoffs and secure it with the two 4-40 screws.
11. Reconnect both the 20 conductor ribbon cable and the 9 conductor ribbon cable back in their respective sockets.
12. Replace the top cover of the Control Center and the THX-M will now be ready for use.

**THE INFORMATION BELOW  
REFERS ONLY TO THE FOLLOWING  
SERIAL NUMBERED MODELS  
C39 Serial Numbers HF3103 and higher.  
MX130 Serial Numbers LS1231 and higher.  
(The Terminator plug is used with these models)**

1. Remove the 8 top cover screws and lift off the Control Center top cover.
2. With the front panel facing you, locate the long narrow connecting circuit card, (to the left of the power transformer), mounted on stand-offs in the center area of the Control Center.
3. Disconnect the 20 conductor ribbon connector from its socket on the long circuit board that contains the Mode and Delay switches, behind the front panel. Carefully lift up and reposition the ribbon with its connector towards the rear. Also remove the 9 conductor ribbon connector from its socket on the front panel circuit board and carefully reposition it towards the rear in a similar manner.

NOTE: The temporary removal of these two ribbons will greatly facilitate the THX-M installation.

4. Remove the two mounting screws that hold the connecting card to the standoff posts and lift off the card. This card will no longer be needed, however please save this card in case the THX-M is removed in the future. Save these screws, since they will be needed to mount the THX-M.
5. Carefully disconnect the six interconnecting plugs with ribbon cables from the connectors on the long narrow connecting card.
6. Connect the **Terminator Plug** onto the connector on the fourth ribbon cable from the left, as

viewed facing the front panel. Be sure to maintain the proper mechanical alignment of the Terminator Plug and the connector.

7. Carefully fold this cable backward toward the rear of the unit, since it is no longer used when the THX Module is installed.
8. Arrange the internal cables in the following manner for the best installation. The four color coded shielded cables to the right, should pass under the THX-M. The six single color coded wires and the three Black shielded cables should pass over the THX-M.
9. The THX-M card has a small companion card positioned at the right, interconnected to the main card with two plug in connectors. Carefully position the THX-M card with its small companion card to the right, next to the power transformer, over the four standoff post extensions. The edge of the THX-M card with the row of connectors should be towards the rear of the C39 or MX130.
10. Secure the THX-M card first, to the standoff posts on the left side, using the two screws originally holding the connecting card.
11. Position the small companion card up and away toward the right to access the other two mounting holes in the THX-M. Carefully screw in the two 3/4 inch standoff extensions through the two mounting holes on the right side of the THX-M into the threaded portion of the original standoffs. Reposition the companion card over the 3/4 in standoffs and secure it with the two 4-40 screws.
12. Connect the five remaining cables with connector plugs to the connector pins on the THX-M card in the same placement order as they were on the connecting card.
13. Connect the free end of the cable already connected to the THX-M, to the connecting pins on the lower circuit card, near the front panel just to the left of the MODE switch.
14. Reconnect both the 20 conductor ribbon cable and the 9 conductor ribbon cable back in their respective sockets.
15. Replace the top cover of the Control Center and the THX-M will now be ready for use.

**THE INFORMATION BELOW  
REFERS ONLY TO THE FOLLOWING  
SERIAL NUMBERED MODELS**

**C39 Starting with Serial Number HF1001 through HF3102.  
MX130 Starting with Serial Number JM1001 and higher.**

1. Remove the 8 top cover screws and lift off the Control Center top cover.
2. With the front panel facing you, locate the long narrow connecting circuit card, (to the left of the power transformer), mounted on stand-offs in the center area of the Control Center.
3. Disconnect the 20 conductor ribbon connector from its socket on the long circuit board that contains the Mode and Delay switches, behind the front panel. Carefully lift up and reposition the ribbon with its connector towards the rear. Also remove the 9 conductor ribbon connector from its socket on the front panel circuit board and carefully reposition it towards the rear in a similar manner.

NOTE: The temporary removal of these two ribbons will greatly facilitate the THX-M installation.

4. Remove the two mounting screws that hold the connecting card to the standoff posts and lift off the card. This card will no longer be needed, however please save this card in case the THX-M is removed in the future. Save these screws, since they will be needed to mount the THX-M.
5. Carefully disconnect the five interconnecting plugs with ribbon cables from the connectors on the long narrow connecting card.
6. Arrange the internal cables in the following manner for the best installation. The four color coded shielded cables to the right, should pass under the THX-M. The six single color coded wires and the three Black shielded cables should pass over the THX-M.
7. The THX-M card has a small companion card positioned at the right, interconnected to the main card with two plug in connectors. Carefully position the THX-M card with its small companion card to the right, next to the power transformer, over the four standoff post extensions. The edge of the THX-M card with the row of connectors should be towards the rear of the C39 or MX130.
8. Secure the THX-M card first, to the standoff posts on the left side, using the two screws originally holding the connecting card.
9. Position the small companion card up and away toward the right to access the other two