



Megatouch FORCE Fusion Monitor Replacement

Visit the Merit Industries, Inc. Web site
<http://www.meritind.com>



merit industries, inc.

PM0450-03

Megatouch FORCE Fusion Monitor Replacement

CONTENTS:

QTY	PART NUMBER	DESCRIPTION
1	SA0469-03	LCD MONITOR W/ SIDE BRACKETS, TOUCHSCREEN
		OR
1	SA0469-04	LCD MONITOR W/ SIDE BRACKETS ONLY
1	SB0016-01	TOUCHSCREEN TAPE KIT
		OR
1	SA0469-09	LCD MONITOR W/ TOUCHSCREEN
		OR
1	EC9384-02	LCD MONITOR ONLY
1	SB0016-01	TOUCHSCREEN TAPE KIT

Use the diagrams below to determine your type of game, then follow the appropriate instructions to remove and install the monitor.

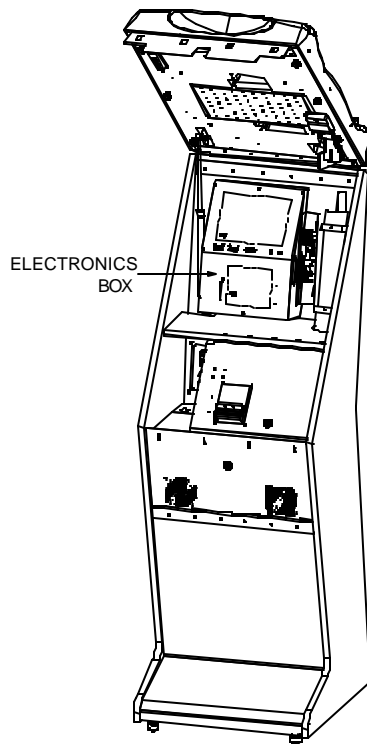


FIGURE 1 - FUSION WITH
ELECTRONICS BOX

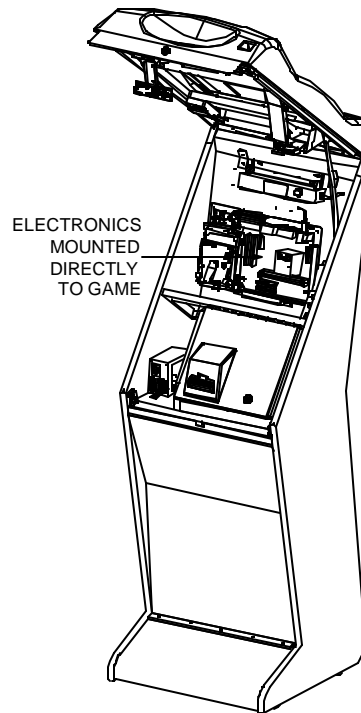


FIGURE 2 - FUSION WITHOUT
ELECTRONICS BOX

Fusion with Electronics Box

Removing the Monitor

1. Turn off and unplug the game.
2. Unlock and open the bezel.
3. Remove the 6 thumbnuts fastening the bezel to the game (see Figure 3) and remove the bezel.
4. If you will not be reusing the existing touchscreen, remove the cable clamps securing the touchscreen cable and the touchscreen power harness, then remove the screws fastening the touchscreen controller (see Figure 3) to the game and disconnect the cable from the back of the controller. Locate and disconnect the Molex connector (orange and gray wires) running from the touchscreen controller cable to the main power harness, and also disconnect the ground screw. See Figure 3.

If you will be reusing the existing touchscreen, disconnect the touchscreen controller cable from the LCD panel (see Figure 3). Then use dental floss to carefully cut the foam tape holding the touchscreen to the monitor until you are able to completely remove the screen. You will need to place the touchscreen on a stable surface until it is installed on the new monitor. Then remove any residual foam tape from the reverse side of the screen with denatured alcohol.

5. Disconnect the VGA monitor connector and ground screw, as well as the monitor power connector. Standard monitors only: Also disconnect the monitor control board connector. See Figure 3.

6. Remove the 4 screws fastening the monitor to the game (see Figure 4) and remove it. Be sure to keep track of the plastic standoffs under the monitor.

Installing the Monitor

1. With the plastic standoffs in place, install the new monitor in the game and fasten it with the 4 screws (see Figure 4).
2. Connect the VGA monitor connector and ground screw, the monitor control board connector, and the monitor power connector to the new monitor. See Figure 3.
3. If your replacement monitor already has a touchscreen, connect the touchscreen cable in the back of the controller and secure the controller with the existing hardware. Also connect the Molex connector (orange and gray wires) to the main power harness (after routing the wires through the cable clamps) and attach the ground screw. See Figure 3.

If you are using the original touchscreen, clean the glass on the new LCD monitor with the supplied alcohol wipe, then cut pieces of the supplied 1/2" foam tape long enough to cover each edge of the monitor without overlapping. After the tape is in place on the monitor, peel off the backing. Carefully place the touchscreen over the monitor in the same manner it was attached to the old monitor, making sure the screen is properly and evenly aligned over the glass, then connect the cable to the LCD panel (see Figure 3). Clean the front of the touchscreen with the supplied alcohol wipe once it is in place.

4. Reinstall the bezel on the game and fasten it with the 6 thumbnuts.
5. Plug in and turn on the game.
6. When the game is finished booting, press the CALIBRATE button.
7. Close and lock the bezel, then calibrate the touchscreen.

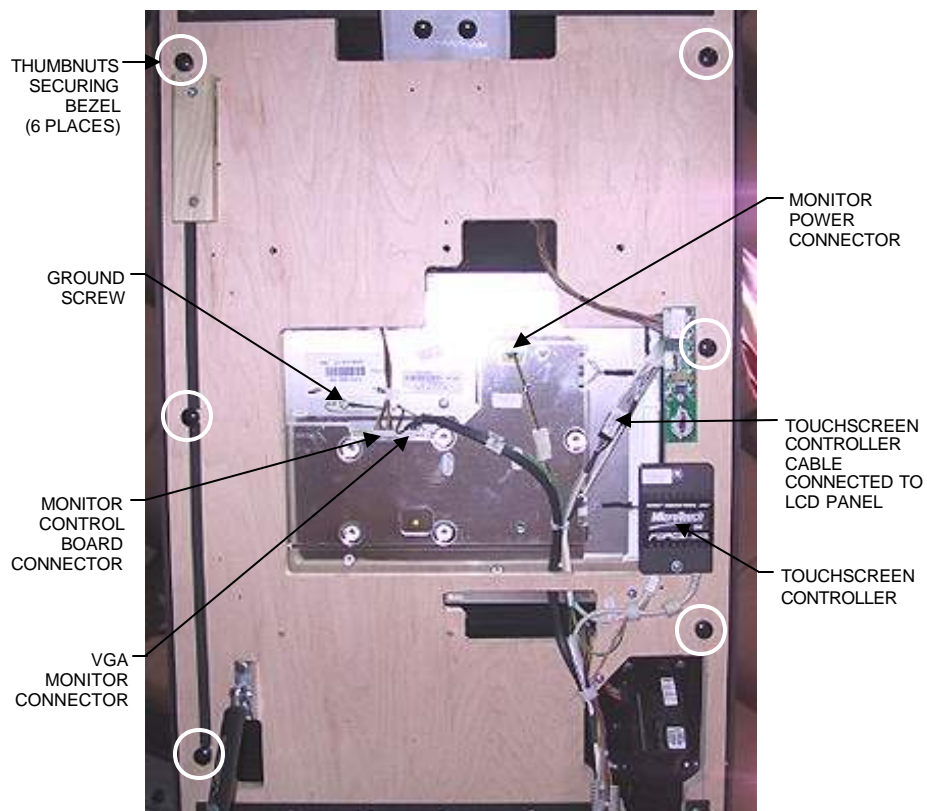


FIGURE 3 - FUSION WITH ELECTRONICS BOX - UNDERSIDE OF BEZEL



FIGURE 4 - FUSION WITH ELECTRONICS BOX - MONITOR (WITH BEZEL REMOVED)

Fusion without Electronics Box

Removing the Monitor

1. Turn off the game and unplug it from its power source.
2. Unlock and open the bezel.
3. Disconnect the VGA monitor connector and ground screw, the monitor control board connector, and the monitor power connector and also remove the cables from the 2 clamps attached to the monitor. See Figure 5.
4. If you will not be reusing the existing touchscreen, remove the screws fastening the touchscreen controller to the game and disconnect the cable from the back of the controller. Then locate and disconnect the Molex connector (orange and gray wires) running from the touchscreen controller cable to the main power harness. After disconnecting the ground screw, pull the cables out of the clamps. See Figures 6 and 7.
5. Remove the 10 screws securing the plastic bezel to the wooden frame (see Figure 5) and carefully remove the bezel from the game. Be careful not to damage the bezel with the coin cup during removal.

NOTE: Keep track of all hardware removed in the monitor replacement process.

6. Place the bezel assembly upside-down on a flat surface and remove the 10 screws fastening the LCD monitor to the bezel (remember which 2 screws also fasten cable clamps), then remove the monitor from the bezel. See Figure 8.

NOTE: Be sure the glass is not scratched when setting the monitor aside.

7. If you will not be reusing the existing touchscreen, skip to the next step. If you will be reusing the touchscreen, note the orientation of the screen (i.e., the positioning of the ribbon cable and which side is the front) before removing it from the LCD monitor. Then use dental floss to carefully cut the foam tape holding the screen to the monitor. Once the touchscreen is completely free from the monitor, remove any residual foam tape from the screen with denatured alcohol and clean the glass with the supplied alcohol wipe.
4. Carefully replace the plastic bezel assembly in the game, making sure the coin cup protrudes into the lower cutout and no wires are pinched, then secure it to the wooden frame with the 10 screws (see Figure 5).
5. If the monitor has a new touchscreen, connect the touchscreen controller cable in the back of the controller and secure the controller in the game with the existing hardware. Then connect the Molex connector (orange and gray wires) to the main power harness and attach the ground screw. Replace the cables in the clamps as before. See Figure 7.

Installing the Monitor

NOTE: Be sure the monitor glass is not scratched during installation.

1. If your replacement monitor already has a touchscreen, skip to step 3. If you will be using the original touchscreen, clean the glass on the new LCD monitor with the supplied alcohol wipe, then cut pieces of the supplied 1/2" foam tape long enough to cover each edge of the monitor without overlapping. After the tape is in place on the monitor, peel off the backing.
2. Carefully place the touchscreen over the monitor in the same manner it was attached to the old monitor, making sure the screen is properly and evenly aligned over the glass. Clean the front of the touchscreen with the supplied alcohol wipe once it is in place.
3. Place the new LCD monitor in the bezel (make sure it is not upside-down), lining up the screw holes on the face of the mounting frame with the larger, drilled holes on the plastic mounting pieces (see Figure 9), and fasten it with the 10 screws. Also replace the cable clamps in the appropriate screw holes. See Figure 8.
6. Connect the VGA monitor connector and ground screw (do not over-tighten), the monitor control board connector, and the monitor power connector (see Figure 5) to the new monitor and replace the cables in the 2 clamps attached to the monitor.
7. Plug in and turn on the game.
8. When the game is finished booting, press the CALIBRATE button.
9. Close and lock the bezel, then calibrate the touchscreen.

If the monitor has the original touchscreen, reconnect the touchscreen controller cable to the LCD panel (see Figure 6).

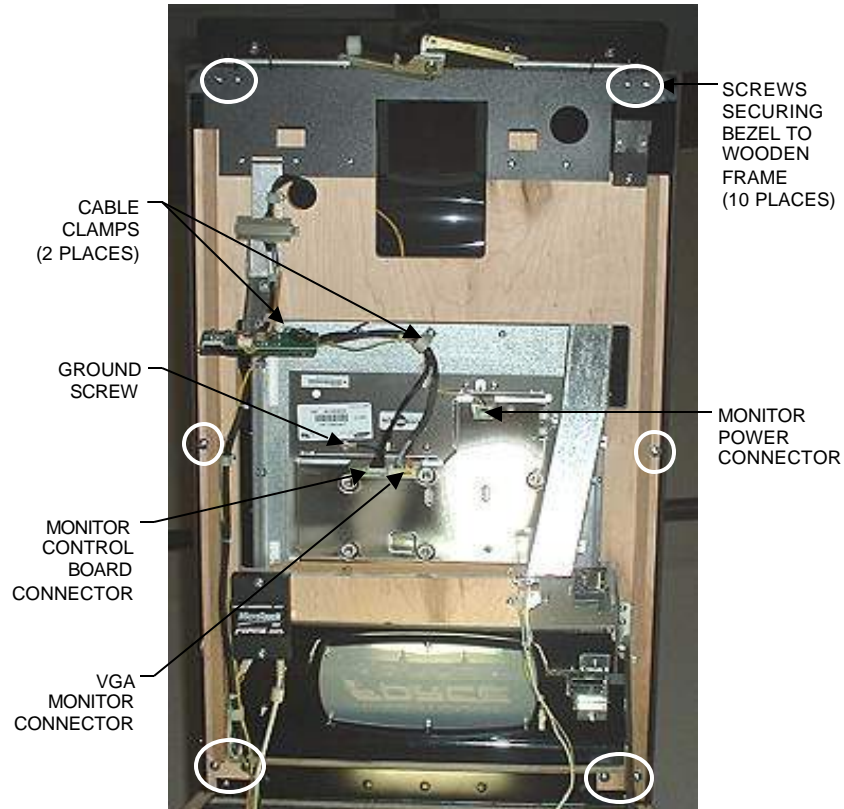


FIGURE 5 - FUSION WITHOUT ELECTRONICS BOX - UNDERSIDE OF BEZEL

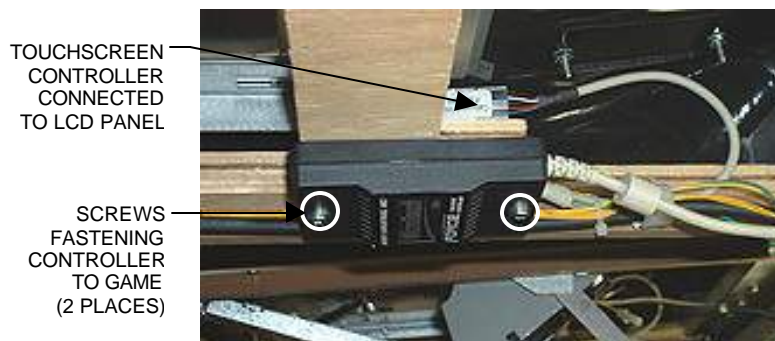


FIGURE 6 - FUSION WITHOUT ELECTRONICS BOX - TOUCHSCREEN CONTROLLER MOUNTED ON BEZEL

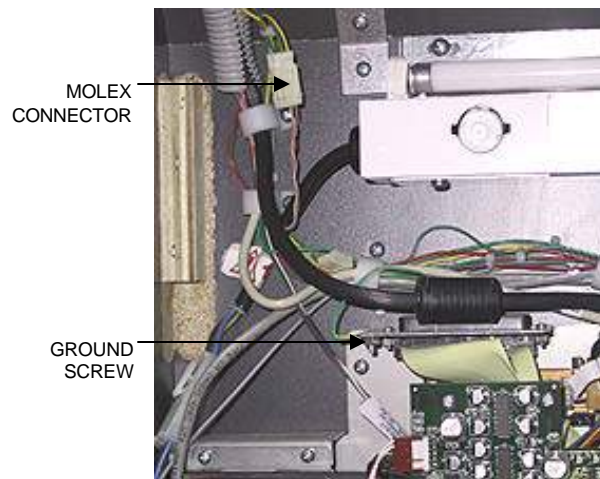


FIGURE 7 - FUSION WITHOUT ELECTRONICS BOX - CLOSEUP OF CPU SECTION

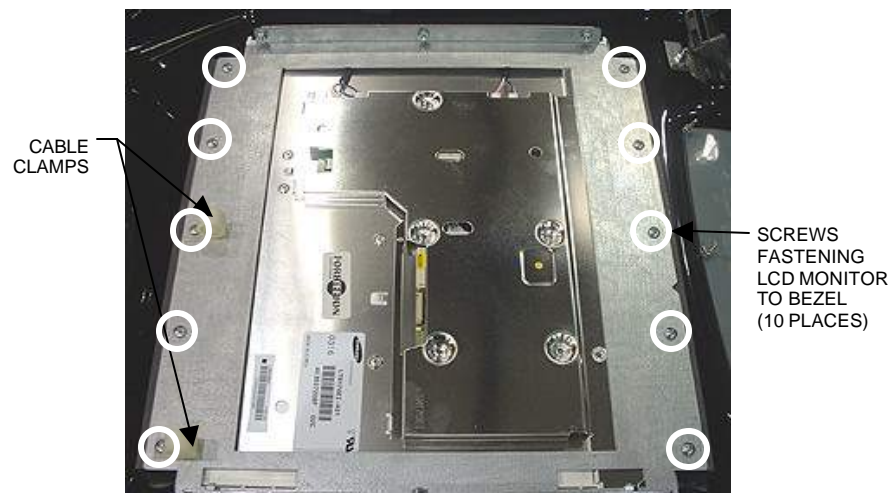


FIGURE 8 - FUSION WITHOUT ELECTRONICS BOX - UNDERSIDE OF MONITOR



FIGURE 9 - FUSION WITHOUT ELECTRONICS BOX -
PLASTIC MOUNTING PIECES ON BEZEL

MEGATOUCH FORCE FUSION MONITOR REPLACEMENT
PM0450-03