MEGATOUCH

Foreseesons 17"
Monitor Replacement

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Foreseesons 17" Monitor Replacement

CONTENTS:

QTY	PART NUMBER	DESCRIPTION
	FUSION MONITOR REPLACEMENT PARTS	
1	EC9384-05	LCD MONITOR
1	MW1379-01	LEFT BRACKET
1	MW1380-01	RIGHT BRACKET
4	HW4401	MOUNTING SCREWS
	COUNTERTOP MONITOR REPLACEMENT PARTS	
3	HW8811	TIE WRAP
2	HW8825	TIE WRAP
2	HW8859-01	SELF-ADHESIVE CABLE TIE WRAP
2	HW6054-01	NYLON SPACER
2	HW9252-03	VELCRO
	PARTS COMMON TO BOTH CABINETS	
1	SB0016-01	TOUCHSCREEN TAPE KIT
5'	HW8087	FOAM TAPE

Follow the instructions to remove and install the monitor in your game. For eVo , Elite Edge, and eVo Wallette games, see page 9.

Fusion and Fun Zone Games

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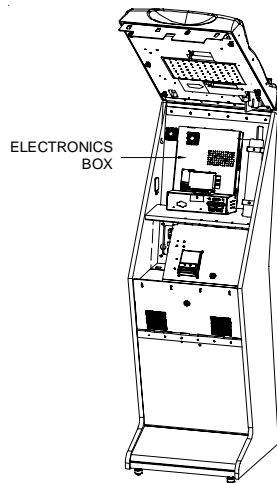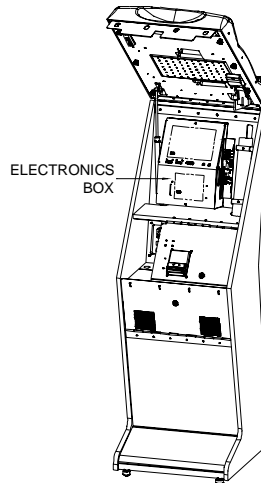

FIGURE 1 - ION FUSION

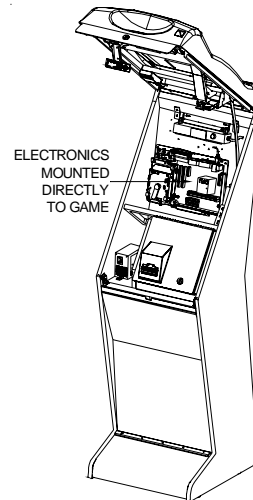FIGURE 2 - FORCE FUSION WITH ELECTRONICS BOX AND FUN ZONE

FIGURE 3 - FORCE FUSION WITHOUT ELECTRONICS BOX

Fusion with Electronics Box and Fun Zone Games

Monitor Removal

1. Turn off and unplug the game.

2. Unlock and open the bezel.

3. *Force games:* Remove the 6 thumb-nuts fastening the bezel to the game (see Figure 4) and remove the bezel.

   Ion games: Disconnect the dongle wire from the top of the electronics box and the fast-on connectors from the coin mech (see Figure 5). Remove the 6 thumbnuts fastening the bezel to the game (see Figure 4). Lift up on the bezel and disconnect the joystick harness (black, 10-pin connector) located between the bezel and the wooden frame. Remove the bezel.

4. *Force games:* *Carefully* remove the screws fastening the touchscreen controller (see Figure 4) to the game and disconnect the cable from the back of the controller; also disconnect the ground screw.

   Ion games: Disconnect the touch-screen controller cable from the touchscreen controller (see Figure 5).

5. If you will be reusing the existing 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 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.

6. Disconnect the VGA monitor connector, as well as the monitor power connector and the monitor control board connector. (For Force games, see Figure 4; Ion games, see Figure 5.)

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

Monitor Installation

1. Line up the monitor's mounting brack-ets over the corresponding holes on the wooden frame and fasten with the 4 screws. If necessary, rotate the cable clips that are alongside the moni-tor (they may be in the way of the brackets). See Figure 6.

2. Connect the VGA monitor connector and ground screw, the monitor con-trol board connector, and the monitor power connector to the new monitor. (See Figure 4 for Force games, Figure 5 for Ion games.)

3. Clean the glass on the new LCD moni-tor 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 overlap-ping. After the tape is in place on the monitor, peel off the backing. Care-fully place the supplied or existing touchscreen over the monitor in the same manner that it was attached to the old monitor, making sure the screen is properly and evenly aligned over the glass.

   Force games: *Carefully* connect the touchscreen cable in the back of the

controller (making sure that the cable's pins are correctly aligned) and secure the controller with the existing hardware (Figure 4).

Ion games: *Carefully* connect the touchscreen cable to the touchscreen controller (Figure 5), making sure that the cable's pins are correctly aligned. Clean the front of the touchscreen with the supplied alcohol wipe once it is in place.

4. *Ion games:* Place the bezel on the game and reconnect the 10-pin joystick harness between the bezel and wooden frame, then fasten the bezel to the frame with the 6 thumbnuts. Re

connect the dongle wire and the coin mech wires (green wire = COM, white wire = OPEN). See Figure 5.

5. *Force games:* Secure the bezel to the game with the 6 thumbnuts.

6. If there is a gap between the bezel and the monitor, place foam tape around the inside edge of the plastic bezel.

7. Plug in and turn on the game.

8. When the game is finished booting, press the CALIBRATE button.

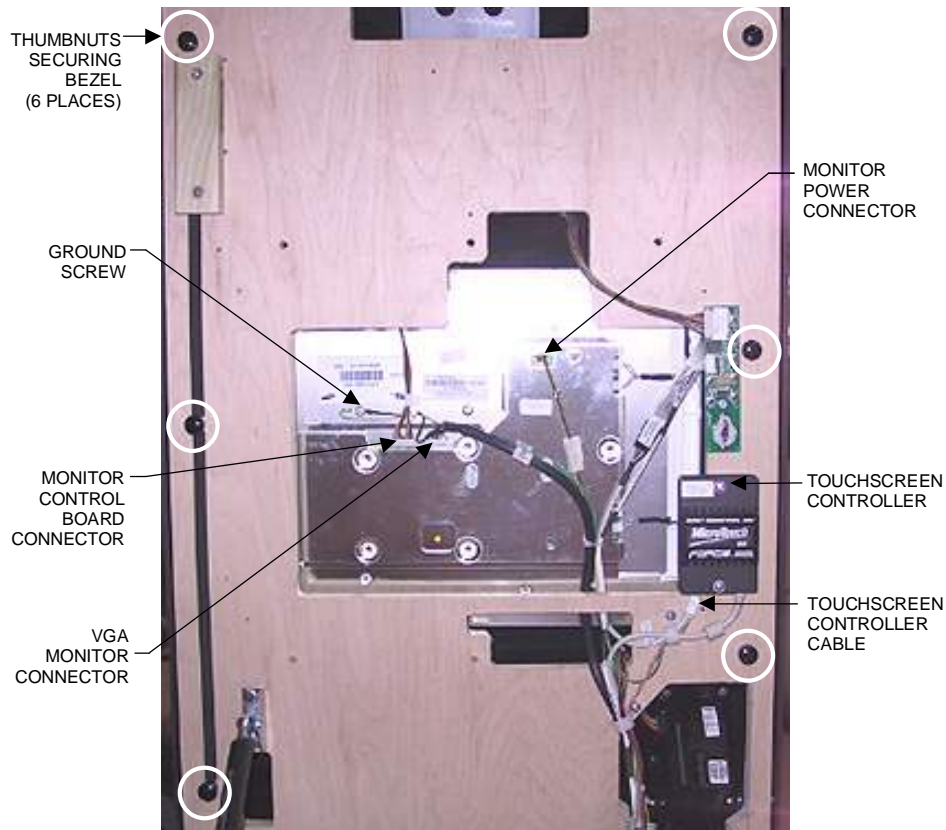9. Close and lock the bezel, then calibrate the touchscreen.

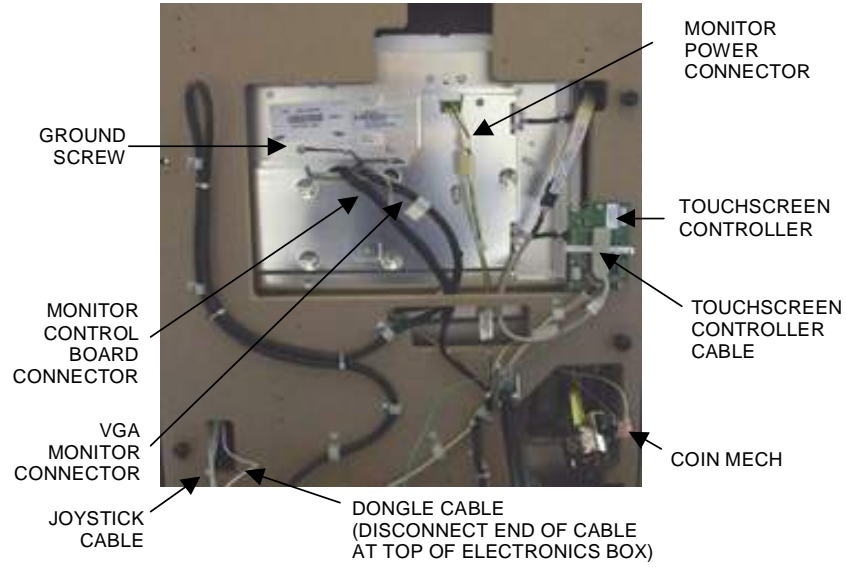FIGURE 4 - FORCE FUSION WITH ELECTRONICS BOX - UNDERSIDE OF BEZEL

MONITOR
POWER
CONNECTOR

GROUND
SCREW

TOUCHSCREEN
CONTROLLER

MONITOR
CONTROL
BOARD
CONNECTOR

TOUCHSCREEN
CONTROLLER
CABLE

VGA
MONITOR
CONNECTOR

COIN MECH

JOYSTICK
CABLE

DONGLE CABLE
(DISCONNECT END OF CABLE
AT TOP OF ELECTRONICS BOX)

FIGURE 5 - ION FUSION - UNDERSIDE OF BEZEL

SCREWS
FASTENING
MONITOR TO
GAME
(4 PLACES)

FIGURE 6 - MONITOR (WITH BEZEL REMOVED)

Fusion without Electronics Box *(Force Games Only)*

Monitor Removal

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; also remove the cables from the 2 clamps attached to the monitor. See Figure 8.

4. Remove the screws fastening the touchscreen controller (see Figure 4) to the game and *carefully* disconnect the cable from the back of the controller. Disconnect the ground screw, and release the cables from the cable clamps. See Figures 9 and 10.

5. Remove the 10 screws securing the plastic bezel to the wooden frame (see Figure 8) 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 and unscrew the supporting brackets from the monitor. See Figure 11.

NOTE: Do not scratch the glass when setting the monitor aside.

7. If you will be reusing the existing 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. 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 screen with denatured alcohol and clean the glass with the supplied alcohol wipe.

Monitor Installation

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

1. 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 supplied or exisitng touchscreen over the monitor in the same manner the touchscreen 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. Position the new LCD monitor on the wooden frame as it will be mounted, and mark the positions of the 4 mounting screws and 2 cable clamps (see Figures 7 and 8). Place the monitor aside and drill holes in the wooden frame for the screws and clamps. Reposition the monitor on the wooden frame and fasten with 4 screws, and replace the 2 cable clamps in the appropriate screw holes.

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 8).

5. If there is a gap between the bezel and the monitor, place foam tape around the inside edge of the plastic bezel.

6. *Carefully* reconnect the touchscreen controller cable in the back of the controller and secure the controller in the game with the existing hardware. Reattach the ground screw. Replace the cables in the clamps as before. See Figures 9 and 10.

7. Connect the VGA monitor connector and ground screw (do not over-tighten), the monitor control board connector, and the monitor power connector (see Figure 8) to the new monitor and replace the cables in the 2 clamps attached to the monitor.

8. Plug in and turn on the game.

9. When the game is finished booting, press the CALIBRATE button.

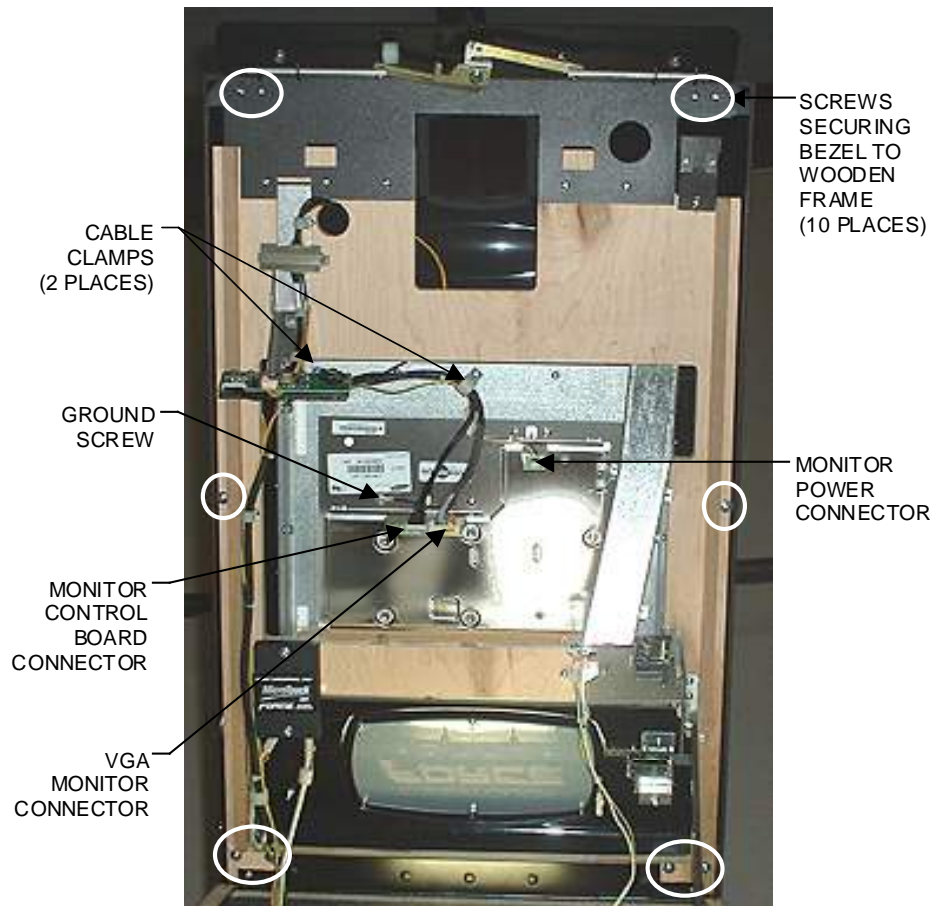10. Close and lock the bezel, then calibrate the touchscreen.

SCREWS
SECURING
BEZEL TO
WOODEN
FRAME
(10 PLACES)

CABLE
CLAMPS
(2 PLACES)

GROUND
SCREW

MONITOR
POWER
CONNECTOR

MONITOR
CONTROL
BOARD
CONNECTOR

VGA
MONITOR
CONNECTOR

FIGURE 8 - FORCE FUSION WITHOUT ELECTRONICS BOX - UNDERSIDE OF BEZEL

TOUCHSCREEN
CONTROLLER
CONNECTED
TO LCD PANEL

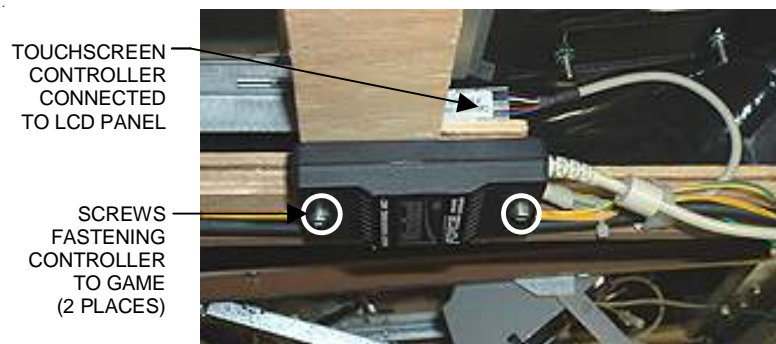SCREWS
FASTENING
CONTROLLER
TO GAME
(2 PLACES)

FIGURE 9 - FORCE FUSION WITHOUT ELECTRONICS BOX -
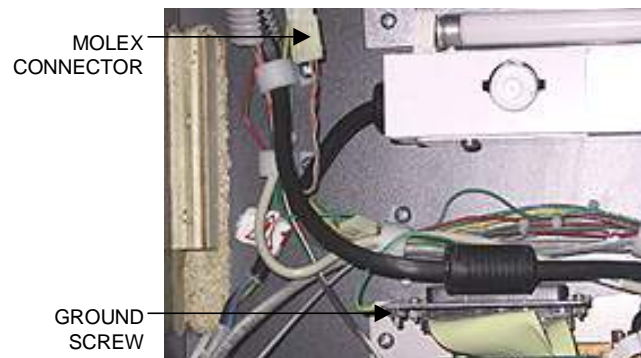TOUCHSCREEN CONTROLLER MOUNTED ON BEZEL

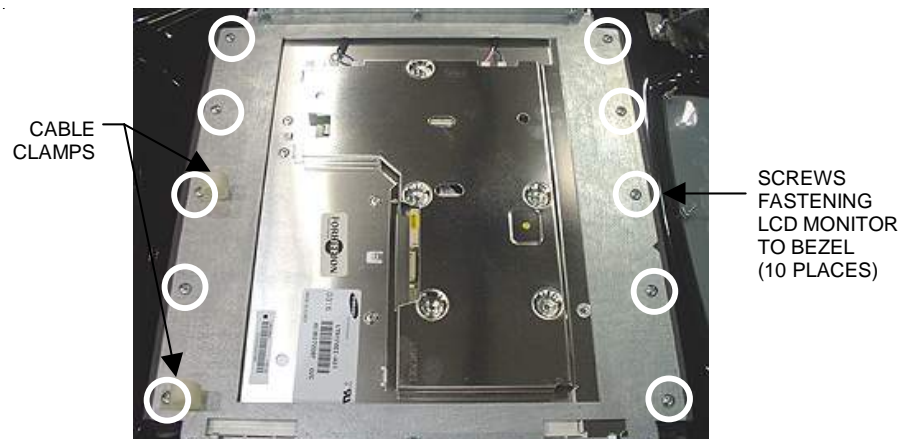FIGURE 10 - FORCE FUSION WITHOUT ELECTRONICS BOX - CLOSEUP OF CPU SECTION

FIGURE 11 - FORCE FUSION WITHOUT ELECTRONICS BOX - UNDERSIDE OF MONITOR

FIGURE 12 - FORCE FUSION WITHOUT ELECTRONICS BOX -
PLASTIC MOUNTING PIECES ON BEZEL

17" Ion eVo, Elite Edge and eVo Wallette Games

Monitor Removal

1. Turn off and unplug the game.

2. Unlock and open the CPU section.

3. *Very carefully* cut the tie wraps securing the touchscreen controller cable to the touchscreen controller. Then, disconnect the cable from the touchscreen controller. See Figure 13.

4. Release the touchscreen controller ribbon cable from the cable clamp.

5. Cut the tie wrap securing the touchscreen controller cables and speaker wires on the back of the monitor (see Figure 13).

6. Cut the tie wrap securing the orange and gray wires and ground wire from the touchscreen controller and the OSD cable. See Figure 13.

7. Remove the touchscreen controller cable, the orange and gray wires (from the touchscreen controller) and the OSD board cable from the cable twist lock. See Figure 13.

8. Carefully remove the 2 screws securing the touchscreen controller to the LCD mounting bracket. Carefully remove the controller and the nylon spacers underneath (if applicable). Set the controller aside.

9. Disconnect the 2-pin LCD connector, the OSD connector and the VGA connector from the back of the monitor. See Figure 13.
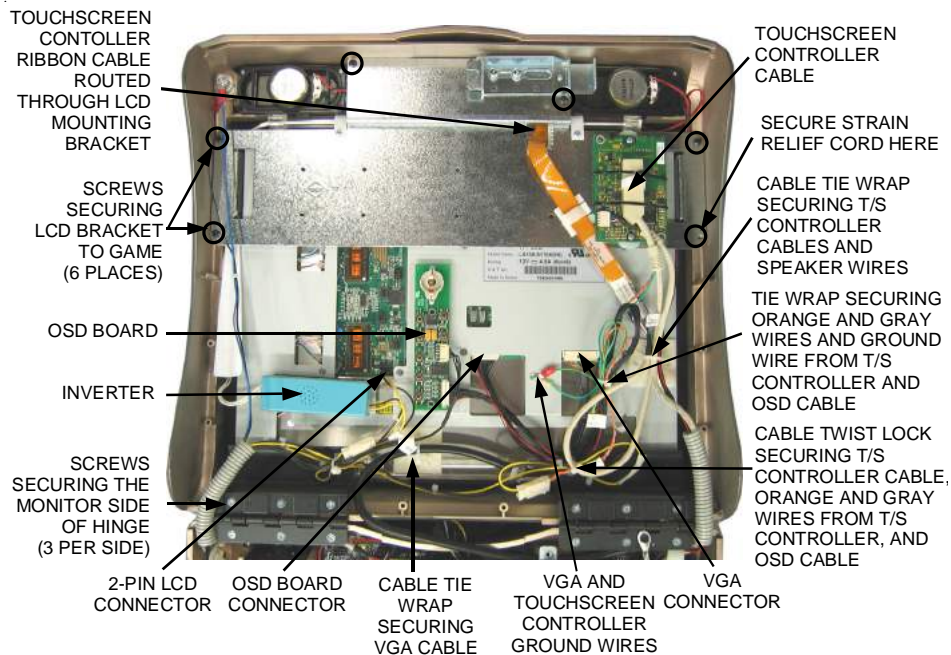

FIGURE 13 – FORESEESONS MONITOR IN 17" ION COUNTERTOP GAME

10. Remove the screw and washer securing the VGA and touchscreen controller ground wires to the back of the monitor. See Figure 13.

11. Remove the OSD board and inverter from the Velcro attached to the back side of the monitor and set them aside. See Figure 13.

12. Place something in front of the game to brace the bezel once the strain relief cord is undone, then remove the screw and washer securing the strain relief cord. See Figure 13.

13. Remove the remaining 5 screws fastening the LCD mounting bracket to the game. See Figure 13.

14. Route the touchscreen controller cable through the hole in the LCD mounting bracket and set the LCD mounting bracket aside.

15. Loosen the 6 screws on the monitor side of the hinges (3 screws per hinge) in order to raise the hinges and allow enough room to remove the monitor. Be careful to keep the hinge spacers in place beneath the hinges.

16. Carefully remove the monitor from the bezel.

17. If you will be reusing the existing 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 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.

Monitor Installation

18. Clean the glass on the new 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.

19. Carefully place the supplied or existing 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.

20. Carefully place the new monitor into the bezel so that the monitor connections are nearest to the hinges. Make sure the monitor is properly centered.

21. Route the touchscreen controller cable through the hole in the LCD mounting bracket. See Figure 13.

22. Fasten the strain relief cord under the LCD mounting bracket screw designated in Figure 13. Replace the remaining 5 screws securing the mounting bracket to the bezel. See Figure 13.

23. Tighten the 3 screws per hinge that were loosened during removal of your old monitor. See Figure 13. Make sure the spacers beneath the hinges are aligned correctly as you tighten the screws.

24. Carefully attach the cable to the touchscreen controller, making sure

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that the cable's pins are correctly aligned. Secure the cable in place using the 2 provided black tie wraps.

25. Install the 2 existing nylon spacers on the standoffs where the touchscreen controller will be mounted (see Figure 13). If your touchscreen controller did not have nylon spacers, install the 2 provided spacers. Then, secure the touchscreen controller to the standoffs on the LCD mounting bracket using the existing screws.

26. Secure the ribbon cable from the touchscreen controller in the cable clamp on the LCD mounting bracket. See Figure 13.

27. Add the "loop" side of the provided Velcro (the mating side of the Velcro attached to the OSD board and inverter) to the back of the monitor in the same locations as the old monitor. Replace the OSD board and inverter on the Velcro.

28. Connect the 2-pin LCD connector to the back of the monitor. See Figure 13.

29. Connect the OSD connector to the monitor. See Figure 13.

30. Connect the VGA monitor connector to the monitor. See Figure 13.

31. Replace the screw and washer securing the VGA and touchscreen controller ground wires to the back of the monitor. See Figure 13.

32. Replace the touchscreen controller cable, the orange and gray wires (from the touchscreen controller) and the OSD board cable in the cable twist lock as shown in Figure 13.

33. Adhere the provided cable tie wraps to the back of the monitor in the same locations as the old monitor.

34. Thread the provided tie wrap through the adhesive cable tie wraps just installed and secure the touchscreen controller wires and OSD cable wires in the cable tie wrap shown in Figure 13. Secure VGA cable in the other cable tie wrap in the same fashion.

35. Dress the remaining wires using the supplied tie wrap.

36. Close and lock the CPU section.

37. Plug in and turn on the game.

MEGATOUCH FORESEESONS MONITOR REPLACEMENT
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