SECTION

I

Replacing The Main Circuit Board

When replacing the main circuit board of the Mirage, keep in mind that it is the most expensive module in the unit and is quite fragile and static sensitive. The circuit board is held in place by the audio in and out, footswitch and sync jacks in the rear panel and by three snap-in standoffs in the front of the board.

1. Follow the instructions for the removal of the keyboard (SECTION G - 1 . . . 4), with one exception. Instead of removing the keyboard cable from the keyboard, disconnect the J-3 connector from the main circuit board.

2. With the keyboard removed, disconnect the disk drive cable, keypad cable and two harness connectors from the main circuit board.

3. Unfasten the four nuts from the audio in and out, footswitch and sync jacks.

IMPORTANT! 4. Pop the circuit board off the three standoffs on the front of the board. Lift the front of the board and remove it from the unit. Note that there are lockwashers between the jacks and the rear panel and that the two standoffs on either side of the expansion port connector are not secured to the case. Remove these standoffs from the board and save them to install the new board but DO NOT remove the release film from the adhesive pad.

5. Before installing the new circuit board make sure that the board insulator is in place on the bottom of the case, insert the non-adhesive standoffs on either side of the expansion port connector and place the lockwashers on the jacks.

6. With the circuit board tilted slightly to the rear, insert the jacks into the holes in the rear panel and snap the board onto the three front standoffs. Secure the jacks with nuts.

7. Carefully reconnect the disk drive, keypad and harness cables.

8. Install the keyboard according to the instructions in SECTION G - 5 . . . 9, with this exception. Since the cable should already be attached to the keyboard, make sure that it is not pinched by the mounting rails and connect it to location J-3 on the main circuit board. Take care that the two unused terminals of the cable connector face the rear of the unit.

9. Close the control panel and test the unit.

SECTION

J

Replacing The Wiring Harness

1. Remove all cables connected to the Mirage, including the power cable.

2. Remove the five screws which fasten the Mirage control panel and raise the panel.

3. The wiring harness is hard wired into the wheel module. Unplug the harness from all four connections and cut the two wire ties to release the harness.

4. Tilt the Mirage up on its back to expose the four wheel module screws on the bottom. Remove the screws while supporting the wheel module with your free hand.

5. Unsolder the connections at the wheel module and note the location.

6. Solder the new harness to the wheel module. Refer to Figure 6 for the proper configuration. Reconnect the harness and install new wire ties.

7. Follow the instructions for the installation of the wheel module (SECTION E - 4).

8. Close the control panel and test the unit.

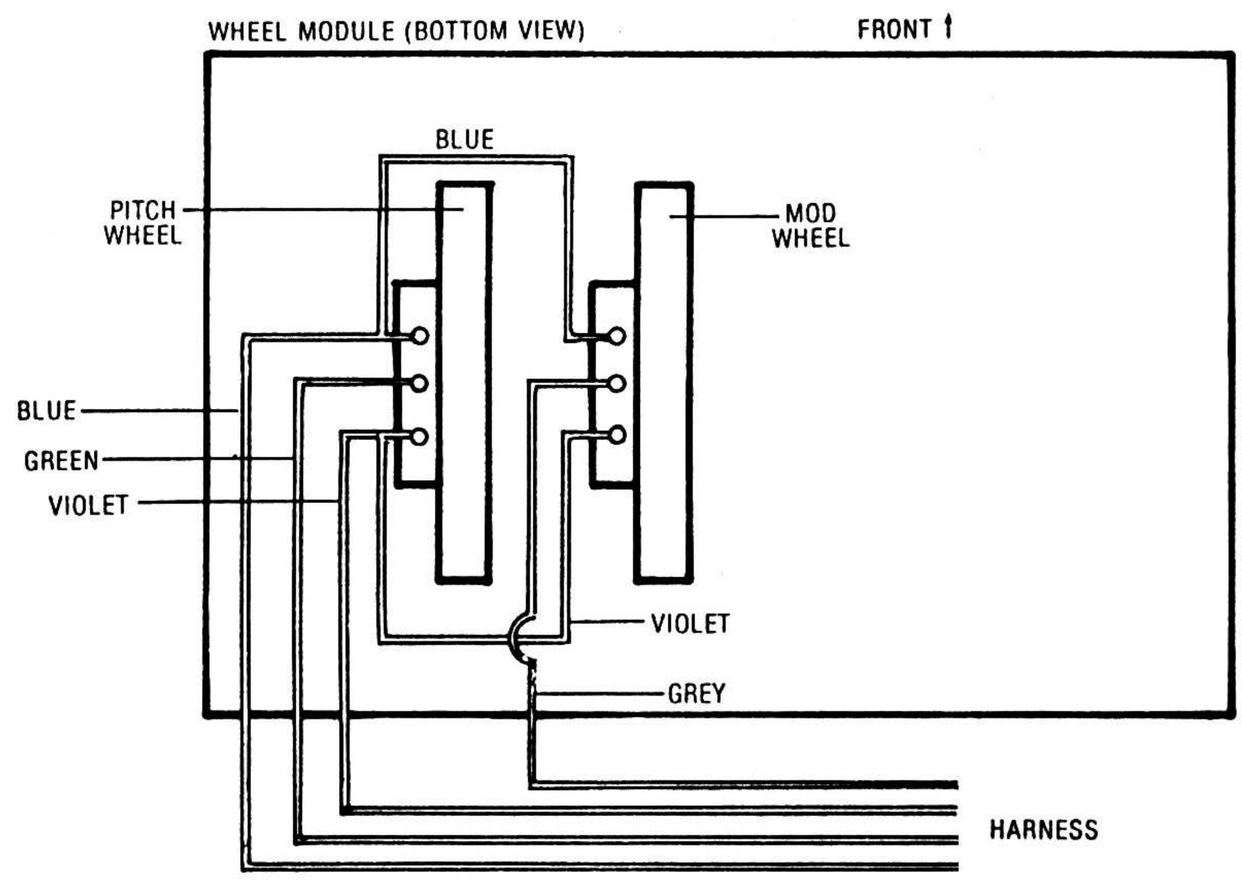

FIGURE 6 - WHEEL MODULE CONNECTIONS

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