



Tech Info Library

ImageWriter LQ General Troubleshooting (Part 3 of 3)

This article last reviewed: 20 November 1987

NOTE: Detailed instructions for Take-Apart can be found in the Technical Procedures.

TESTING THE PAPER-HANDLING CHANGE SWITCH

Materials Required: Digital multimeter

Procedure

1. Turn off the printer and remove the main cover.
2. Disconnect the paper-handling change switch cable from main board connector CN18.
3. Connect the multimeter between pins 1 and 2 of the removed connector and alternately depress and release the paper-handling change switch.

When the paper release lever is depressed, the resistance should be 0 ohms. When the lever is released, the resistance should be infinite. If the resistances are not as shown, replace the paper-handling change switch.

TESTING THE PAPER FEED MOTOR

Materials Required: Digital multimeter

Procedure

1. Turn off the printer and remove the main cover.
2. Disconnect the paper feed motor cable from main board connector CN6.
3. Connect the multimeter between the pins of the removed connector listed below and verify that resistances are as shown.

Pins to measure	Resistance (Ohms)
1 and 3	20
1 and 5	20
2 and 4	20
2 and 6	20
3 and 5	40
4 and 6	40

If the resistances are not as shown, replace the paper feed motor.

TESTING THE AUTO-LOAD SOLENOID

Materials Required: Digital multimeter

Procedure

1. Turn off the printer and remove the main cover.
2. Disconnect the auto-load solenoid cable from main board connector CN8.
3. Connect the multimeter between pins 1 and 2 of the removed connector, and then between pins 2 and 3.

The resistance between pins 1 and 2 and between pins 2 and 3 should be infinite. If the resistances are not as indicated, replace the auto-load solenoid.

TESTING THE PAPER-OUT SENSOR

Materials Required: Digital multimeter

Procedure

1. Turn off the printer and remove the main cover.
2. Disconnect the paper-out sensor cable from main board connector CN9.
3. Connect the multimeter between pins 4 and 5 of the removed connector and alternately raise and release the paper-out sensor arm.

When you raise the paper-out sensor arm, the resistance should be 0 ohms. When you release the paper-out sensor arm, the resistance should be infinite. If the resistances are not as indicated, replace the paper-out sensor.

TESTING THE COVER-OPEN SENSOR

Materials Required: Digital multimeter

Procedure

1. Turn off the printer and remove the main cover.
2. Connect the multimeter between pins 1 and 13 of the removed connector and open and close the front cover.

When you close the front cover, the resistance should be 0 ohms. When you open the front cover, the resistance should be infinite. If the resistances are not as indicated, replace the control panel PCA.

TESTING THE COLOR RIBBON DETECT SWITCH

Materials Required: Digital multimeter

Procedure

1. Turn off the printer and remove the main cover.
2. Disconnect the color ribbon assembly cable from main board connector CN7.
3. Connect the multimeter between pins 7 and 8 of the removed connector and alternately depress and release the color ribbon detect switch.

When you depress the color ribbon detect switch, the resistance should be 0 ohms. When you release the switch, the resistance should be infinite. If the resistances are not as indicated, replace the color ribbon detect switch.

TESTING THE COLOR RIBBON HOME POSITION SWITCH

Materials Required: Digital multimeter

Procedure

1. Turn off the printer and remove the main cover.
2. Disconnect the color ribbon assembly cable from main board connector CN7.
3. Connect the multimeter between pins 9 and 10 of the removed connector and alternately rotate the front carrier shaft completely forward and then back slightly.

When you rotate the shaft completely toward you, closing the switch, the resistance should be 0 ohms. When you rotate the shaft slightly forward, opening the switch, the resistance should be infinite. If the resistances are not as indicated, replace the color ribbon motor assembly.

TESTING THE COLOR RIBBON MOTOR

Materials Required: Digital multimeter

Procedure

1. Turn off the printer and remove the main cover.
2. Disconnect the color ribbon assembly cable from main board connector CN7.
3. Connect the multimeter between the pins of the removed connector listed below, and verify that resistances are as shown.

Pins to measure	Resistance (Ohms)
1 and 3	70
1 and 5	70
2 and 4	70
2 and 6	70
3 and 5	140
4 and 6	140

If the resistances are not as indicated, replace the color ribbon motor assembly.

TESTING THE CONTROL PANEL SWITCHES

Materials Required: Digital multimeter

Procedure

1. Turn off the printer and remove the main cover.
2. Place the cover top down on a padded work surface.
3. Connect the multimeter between the pins of the control panel PCA connector

listed below and check to see if the resistance reads 0 ohms when the corresponding control panel switch is depressed. Refer to Figure 14 to determine the location of each pin.

Switch	Check pins
Select switch	10 & 13
Print quality switch	9 & 13
Line feed switch	1 & 13
Form feed switch	12 & 13

If any switch fails to show 0 ohms when depressed, replace the control panel PCA.

For more ImageWriter LQ troubleshooting information see the following articles:
ImageWriter LQ General Troubleshooting (Part 1 of 3)
ImageWriter LQ General Troubleshooting (Part 2 of 3)

Refer to the Technical Procedures for the take apart instructions.
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Keywords: hts

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19960215 11:05:19.00

Tech Info Library Article Number: 1615