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EZ Manual CL6XXE

- Electric Checks and Adjustments
- Ribbon Clutch Adjustment
- Print Head Balance Adjustment
- Print Head Position Adjustment



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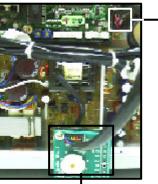


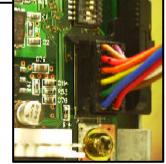
This explains how to check levels of DC power supply, I-mark sensor and gap sensor. Ensure that printer power is off. Remove the LH cover and then perform the following steps.

Additional equipment required TP Test Module Digital Multimeter

STEPS

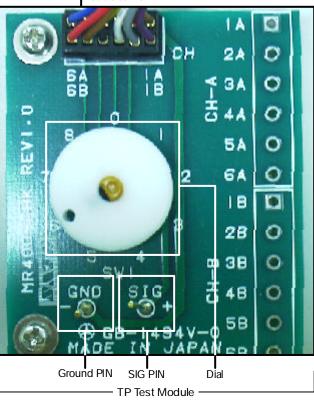
- 1 Attach the connector from the TP Test Module to the test port on the MAIN PCB. Note correct positioning of connector. Nibs on the connector are placed down on the PCB in the forward position.
- 2 Attach the ground probe of the Digital Multimeter to the TP Test Module ground pin (GND PIN).
- 3 Attach positive probe of the Multimeter to the + SIG PIN on the TP Test Module terminal.
- 4 Turn printer power on and rotate the dial to a position 0-5 on the TP Test Module by referring to the diagram on the next page. Record the values from the Multimeter.
- 5 Confirm the recorded voltages are within the voltage range. If not, replace parts or adjust sensor level. Refer to Check and Adjustment chart.
- 6 After performing test, put the LH cover back to the printer.





Cable to TP Test Module

Cable to PCB



Electric Checks and Adjustments

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Electric Checks and Adjustments Chart 1

TP TEST POINT CHART

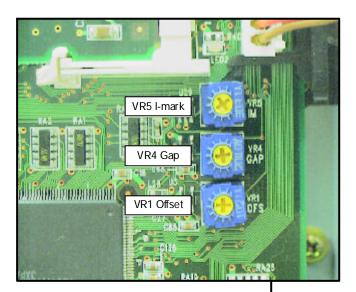
Dial test point	Comment	Voltage	Voltage Range	Check pin on TP Test Module and Main PCB	Adjustment to VR
0	DC Power Supply	+5.0 VDC	+4.8V to +5.2V	CH3A(+5.0V) - CH1A(GND)	N/A
1		+2.0 VDC	+1.9V to +2.1V	CH4A(+2.0V) - CH1A(GND)	N/A
2		+3.3 VDC	+3.1V to +3.5V	CH5A(+3.3V) - CH1A(GND)	N/A
3		+24.0 VDC	+23.5V to +24.5V	CH6A(+24.0V) - CH1A(GND)	N/A
4	I-Mark Sensor Level	Low level (Set the blank area on the sensor) = A		CH1B(+8.4V) - CH1A(GND)	VR5
		High level (Set the I-mark on the sensor) = B			
		High level - Low level = A - B = more than +0.9V			
5	Gap Sensor Level	Low level (Set the label backing liner or the centre hole [in case of the centre hole tag] on the sensor) = C		CH2B - CH1A(GND)	VR4
		High level (Set the label or tag on the sensor) = D			
		High level - Low level = C - D = more than +0.9V			

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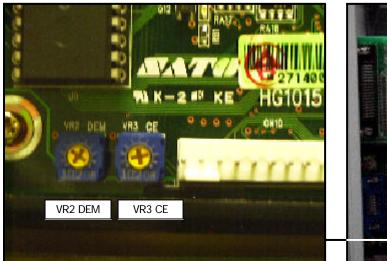


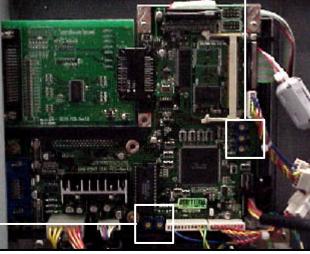
Potentiometers are located on MAIN PCB.

Pitch Offset Adjustment
Dispenser Sensor Level Adjustment
Ribbon Sensor Level Adjustment
Gap Sensor Level Adjustment
I-Mark Sensor Level Adjustment

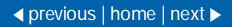


Electric Checks and Adjustments Chart 2





MAIN PCB



DCS & Labelling Worldwide

Potentiometers are located on FRONT PANEL

Adjustment VR	Function	
VR1	Print (Print darkness)	
VR2	Pitch offset	
VR3	Pitch (Print position)	
VR4	LCD Darkness	



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Electric Checks and Adjustments $Chart\ 3$

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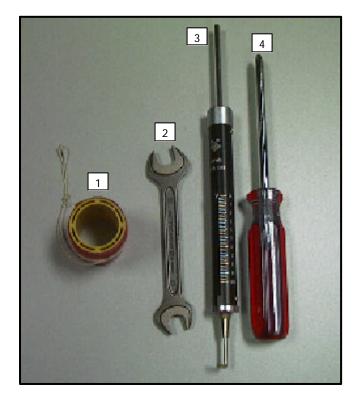


Excessive ribbon unwind and rewind tension will result in variable motion and could be the cause of print quality problems.

Ensure the ribbon rewind and unwind tensions are within specifications or adjustment of either clutch is necessary.

Required equipment

- 1 Empty Ribbon Core and String
- 2 12mm Wrench
- 3 2kg Tension Gauge
- 4 "+" Screwdriver (JIS No.2 equivalent)



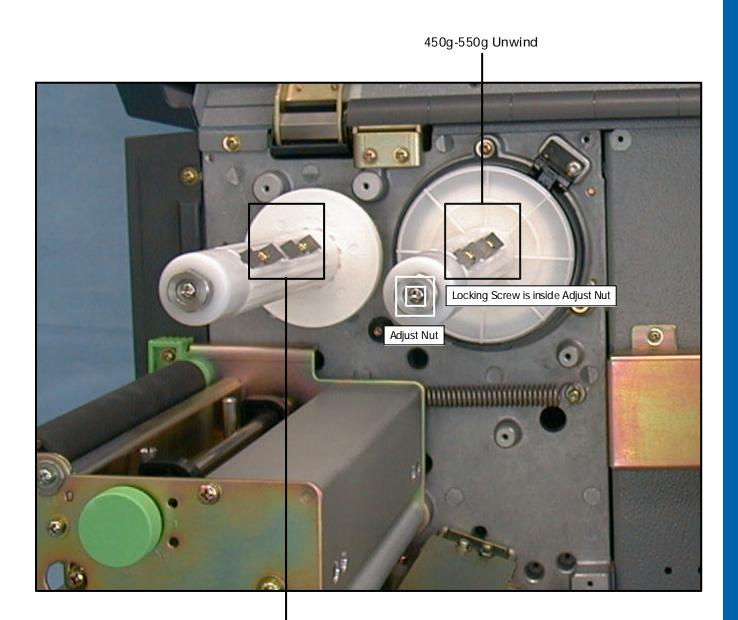
STEPS

- 1 Switch the printer OFF and disconnect the power cable.
- 2 Open the top and front access doors. Remove the ribbon and label stock if installed.
- 3 Attach string to an empty ribbon core and place on the Ribbon Spindle. Wind the string tightly around the ribbon core in single layer and in clockwise direction. Attach the end of the string to the tension gauge.
- 4 Gradually lift the tension gauge and pull the string, unwinding it from the core. Once the spindle starts to move, the gauge should indicate 950 to 1050 grams of tension for ribbon rewind, and 450 to 550 grams of tension for ribbon unwind. Refer to pictures on next page.
- 5 To adjust the clutch, loosen the locking screw and move the adjust nut CW for more tension and CCW for less tension. Tighten the locking screw and repeat steps 3 and 4 until the correct tension is achieved.

Ribbon Clutch Adjustment

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Ribbon Clutch Adjustment continued

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950g-1050g Rewind



Major Adjustment

Required equipment 10mm Open End Wrench "+" Screwdriver (JIS No.2 equivalent)

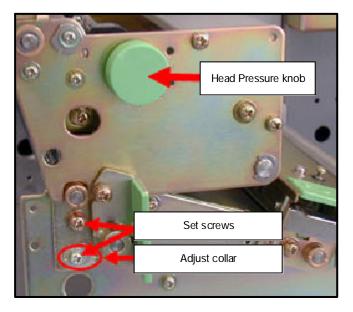
To adjust the print head alignment and consistent quality across label, perform the following steps:

STEPS

- 1 Loosen the set screws.
- 2 Turn the Adjust collar to begin an adjustment.
- 3 Should the outer side print be too dark, turn the Collar in the clockwise direction.
- 4 Should the outer side print be light, turn the Collar in the counter clockwise direction.

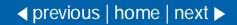
Note

The scale of Head pressure adjusting knob should be in position 3.



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Print Head Balance Adjustment



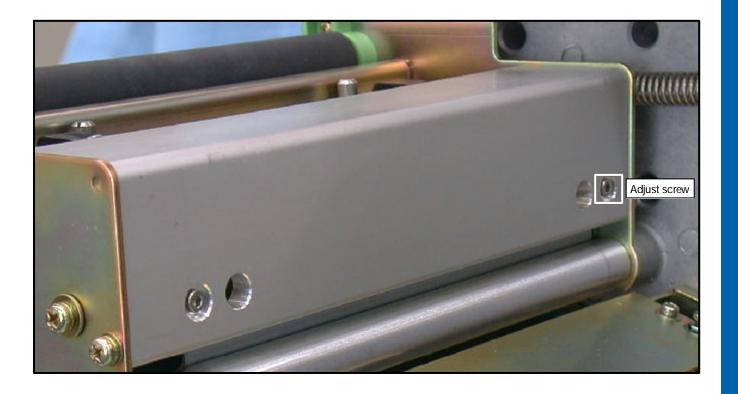


Major Adjustment

Required equipment 2.5 mm Allen Key.

STEPS

- 1 Turn the adjust screw on the rear surface of the head frame to adjust the head position.
- 2 One cycle of the screw turning is 5mm.



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Print Head Position Adjustment

