



EZ Manual XL4xxe

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- ▶ Cutter sensor adjustment
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- ▶ Print Head Balance Adjustment
- ▶ Print Head Position Adjustment



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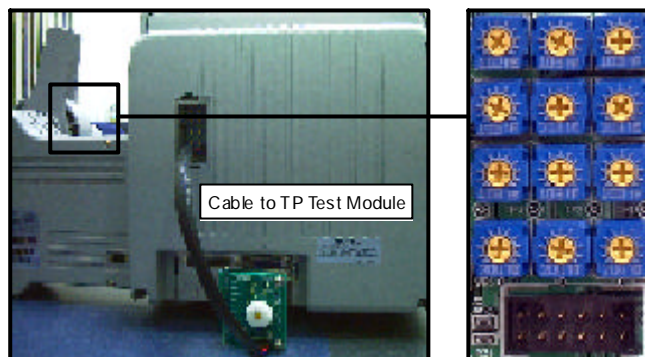
This explains how to check DC power supply, I-Mark sensor level, Gap/center hole sensor level, ribbon sensor level, side hole sensor level, R-corner hole sensor level and jump hole sensor level. Ensure printer power is OFF. Then remove the VR cover on the back of the printer and perform the following steps.

Additional equipment required

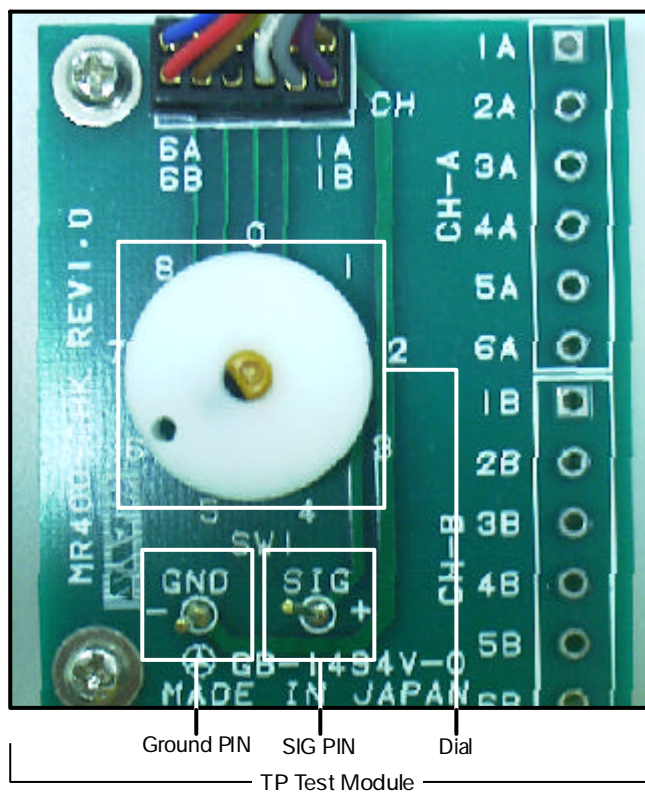
TP Test Module
Digital Multimeter

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 dial POS on the TP Test Module. Record the values from the Multimeter.
- 5 Confirm voltages are correct. If not, then replace parts or adjustment sensor level. Refer to Check and Adjustment chart.
- 6 After performing test, put the VR cover back to the printer.



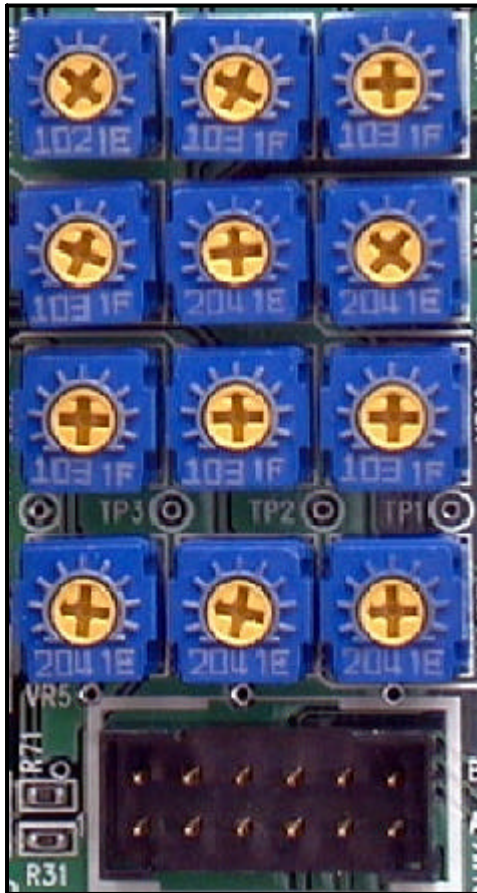
Cable to PCB



Electric Checks and Adjustments

Potentiometers are located on MAIN PCB.

Electric Checks and Adjustments Chart 1



VR3		VR8		VR9	
VR4		VR2		VR1	
VR11		VR10		VR12	
TP4	TP3	TP2	TP1		
VR5		VR6		VR7	
B6	B5	B4	B3	B2	B1
A6	A5	A4	A3	A2	A1

Connector PIN No.

VR (Adjustment Level) on Main PCB	
VR1	Tag Center Hole And Label Gap Sensor Level Adjustment
VR2	I-Mark Sensor Level Fine Adjustment
VR3	Ribbon Sensor Level Adjustment
VR4	Print Position Adjustment (Use Factory)
VR5	Side Hole Sensor Level Adjustment
VR6	R Corner Hole Sensor Level
VR7	Jump Hole Sensor Level Adjustment
VR8	I-Mark Sensor Level Adjustment
VR9	Tag Center Hole And Label Gap Sensor Level Fine Adjustment
VR10	R Corner Threshold Level Adjustment
VR11	Jump Hole Sensor Threshold Level Adjustment
VR12	Side Hole Sensor Threshold Level Adjustment

TP (check level) on main PCB	
TP1	Side Hole Sensor Threshold Level Adjustment
TP2	R Corner Threshold Level Adjustment
TP3	Jump Hole Sensor Threshold Level
TP4	GND

Electric Checks and Adjustments Chart 2

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 no eye-mark point in the sensor's) = Less than +0.5V		CH1B(+8.4V) - CH1A(GND)	VR8 and VR2
		High level (Set the eye-mark in the sensor's) = Low level plus more than +0.9V			(VR2 is used for adjusting the light reception flow. If there is difference between the high and low level, adjust VR2 to allow some level difference.)
		High level (with eye-mark point) - Low level (without eye-mark point) = +0.9V			
5	Gap/Tag Center Hole Sensor Level	Low level (Set the label backing liner or centre hole tag in the sensor's) = Less than +0.5V		CH2B - CH1A(GND)	VR1 and VR9 (Fine adjustment)
		High level (Set the label and tag in the sensor's) = Low level plus more than +0.1V			
		High level (printing point) - Low level (gap point) = +1.0V			

Electric Checks and Adjustments
Chart 3 continued

TP TEST POINT CHART

Dial test point	Comment	Voltage	Voltage Range	Check pin on TP Test Module and Main PCB	Adjustment to VR
6	Ribbon sensor level adjustment	Low level (Set the ribbon without slit point) : Less than +0.5V	High level (with slit point) - Low level (without slit point) +2.0V	CH3B - CH1A(GND)	VR3
7	Side hole sensor level	Low level (Set the side hole in the sensor's) : Less than +0.5V	High level (Set the tag in the sensor's) : Low level plus more than +0.2V	CH4B - CH1A(GND)	VR5
		High level (printing point) - Low level (side hole point) : +2.0V			
N/A	Side hole slice level	Middle of level between high and low levels		TP1 - TP4(GND)	VR12

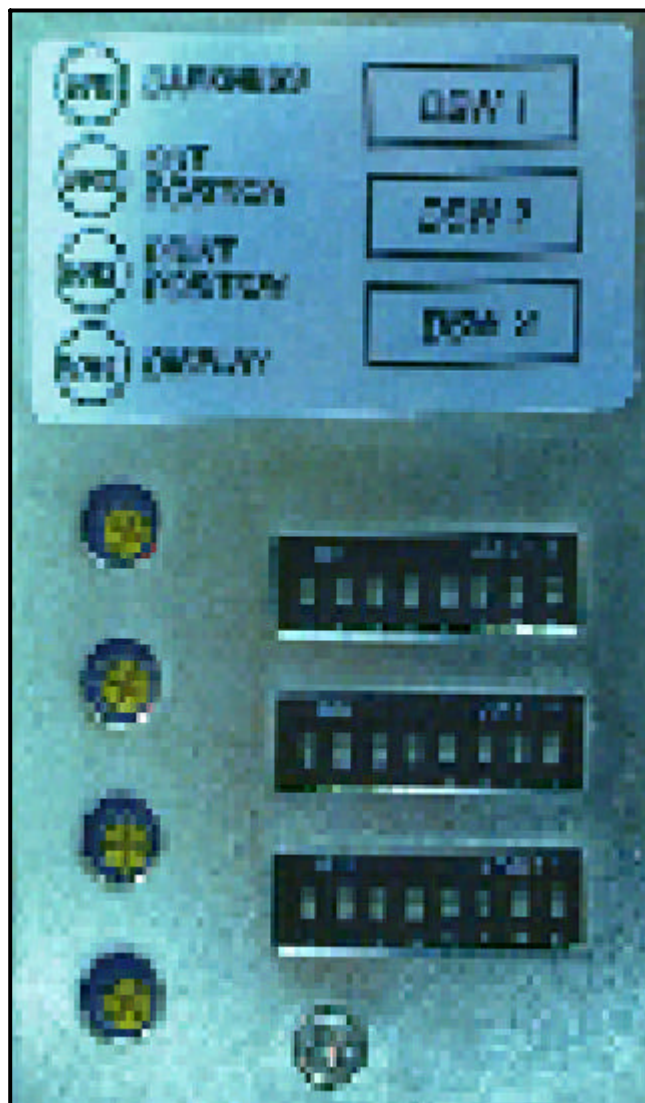
Electric Checks and Adjustments Chart 4 continued

TP TEST POINT CHART

Dial test point	Comment	Voltage	Voltage Range	Check pin on TP Test Module and Main PCB	Adjustment to VR
8	R corner hole sensor level	Low level (Set the R corner in the sensor's) : Less than +0.5V		CH5B - CH1A(GND)	VR6
		High level (Set the tag in the sensor's) : Low level plus more than +2.0V			
		(High level on printing point) - (Low level on R corner point) \geq +2.0V			
N/A	R corner slice level	Middle of level between high and low levels		TP2 - TP4(GND)	VR10
N/A	Jump hole sensor level	Low level (Set the jumphole in the sensor's) : Less than +0.5V and more than +0.2V		CH6B - CH1A(GND)	VR7
		High level (Set the tag in the sensor's) : Low level plus more than +2.0V			
		High level (printing point) - Low level (R corner point) +2.0V			
N/A	Jump hole slice level	Middle of level between high and low levels		TP3 - TP4(GND)	VR11

Potentiometers are located on FRONT PANEL

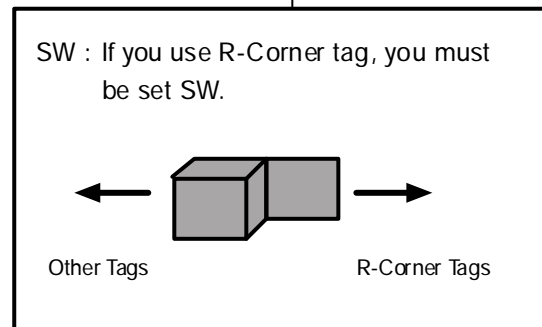
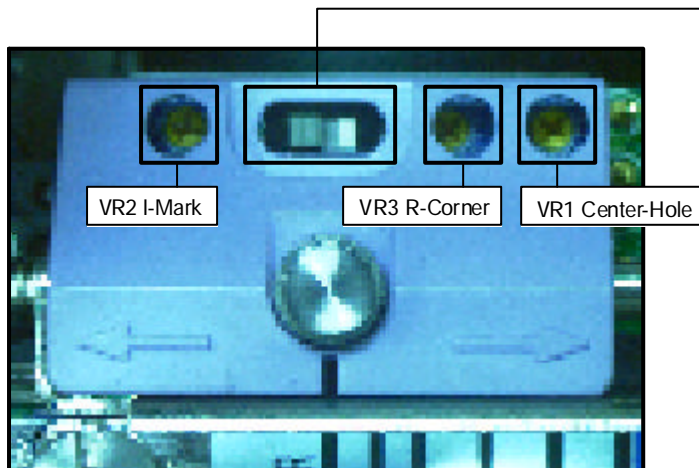
Adjustment VR	Function
VR1	Print (Print darkness)
VR2	Cut Position
VR3	Print Position
VR4	Display (LCD Darkness)



Electric Checks and Adjustments Chart 5

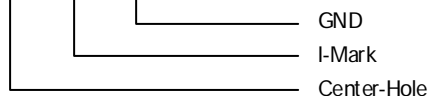
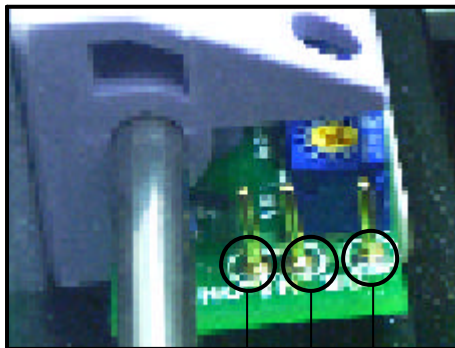
Cutter Sensor Adjustment

Cut sensor type	VR & Check PIN & Sensor Selector Switch
Center-Hole	VR 1
	(+) HO (-) SG
	Other Tag Position (Right side)
I-Mark	VR 2
	(+) IM (-) SG
	Other Tag position (Right side)
R-Corner	VR 3
	(+) HO (-) SG
	R-Corner Tag position (left side)



Cutter Sensor Adjustment continued

Cut sensor type	Sensor Level Voltage	
Center Hole	High level (Position a TAG in the sensor's field of view.)	: More than (+) 6.0Volts to less than (+) 7.0Volts
	Low level (Position a Center Hole in the sensor's field of view.)	: Less than (+) 0.5Volts
I-Mark	High level (Position a I-Mark in the sensor's field of view.)	: More than (+) 6.0Volts to less than (+) 7.0 volts
	Low level (Position a NON I-Mark in the sensor's field of view.)	: Less than (+) 0.5Volts
R-Corner	High level (Position a TAG in the sensor's field of view.)	: More than (+) 6.0Volts to less than (+) 7.0Volts
	Low level (Position a R-Corner in the sensor's field of view.)	: Less than (+) 0.5Volts



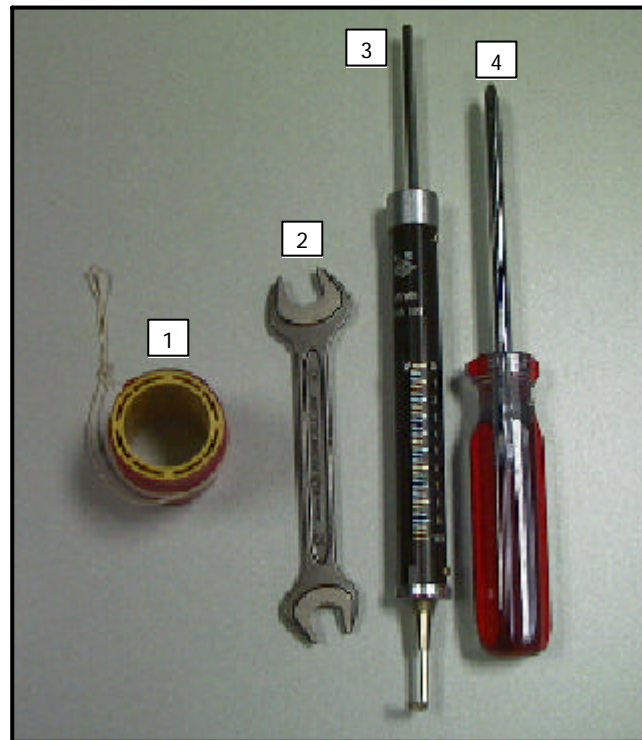
Excessive ribbon unwind and rewind tension will result in variable motion and could be the cause of print quality problems. Ensure the ribbon rewind and unwind tensions are within specifications or adjustment of either clutch is necessary.

STEPS

- 1 Switch the printer OFF and disconnect the power cable.
- 2 Open the top and front access door. 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, pull the string and unwind it from the core. Once the spindle starts to move, the gauge should indicate 500 to 700 grams of tension for ribbon rewind, and 400 and 500 grams of tension for ribbon unwind. Refer to picture in 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.

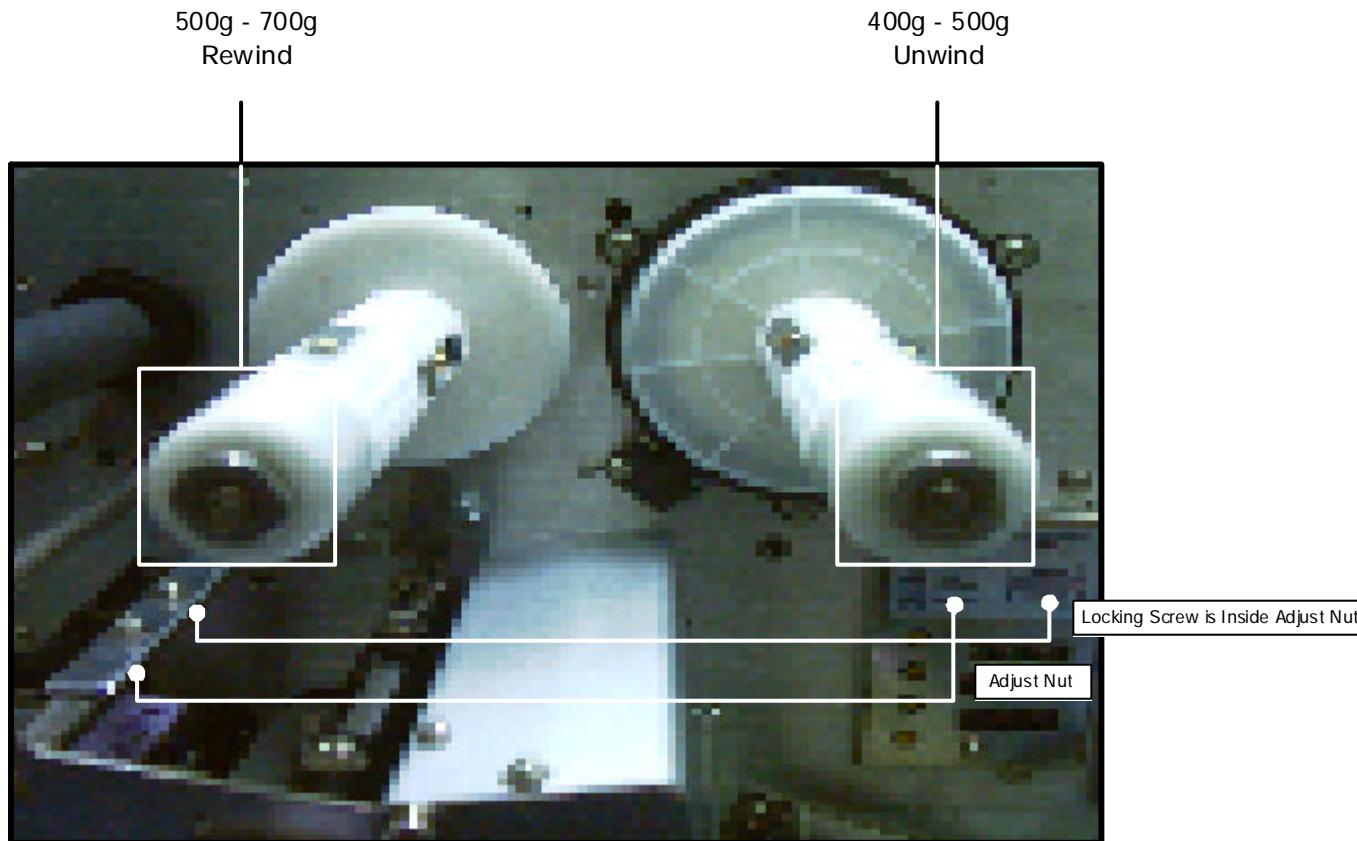
Required equipment

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



Ribbon Clutch Adjustment

Ribbon Clutch Adjustment continued



Major Adjustment

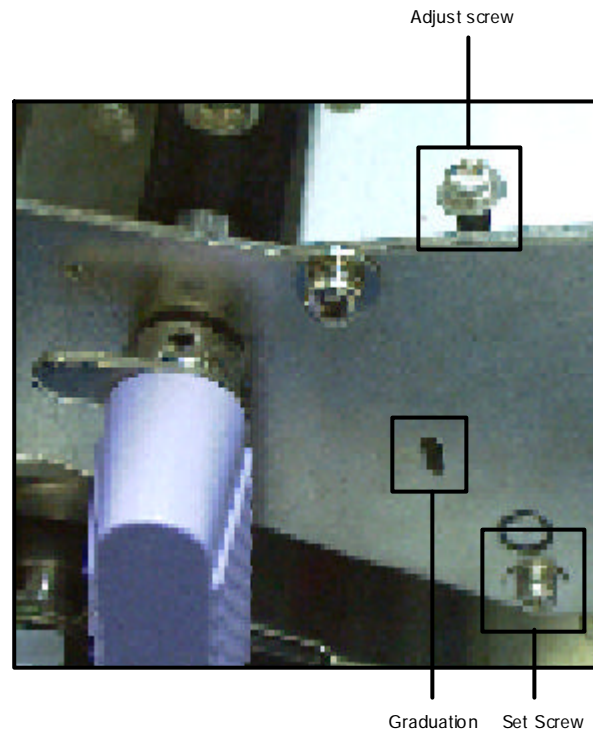
Required equipment

"+" Screwdriver (JIS No.2 equivalent)

To adjust the print head presser and to ensure consistent print quality across labels, perform the following steps:

STEP

- 1 Loosen the set screw.
- 2 Turn the adjust screw to adjust.
- 3 If the print is dark at front side, turn the adjust screw to clockwise.
- 4 If the print is dark at basic frame side, turn the adjust screw to anticlockwise.
- 5 Finish adjust, then fix the set screw.



Print Balance Adjustment

Major Adjustment

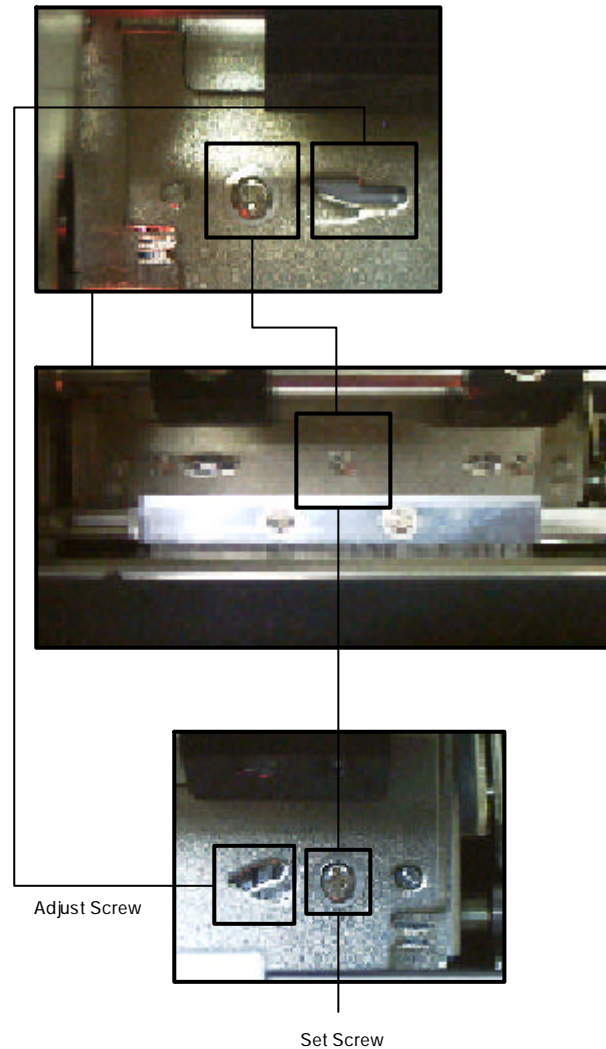
Required equipment

"+" Screwdriver (JIS No.2 equivalent)

"-" Screwdriver

STEP

- 1 Loosen the two set screws on the adjustment plate.
- 2 Turn the head mounting screw.
- 3 Adjust the head position by moving the head adjustment plate back or forth using the "-" screwdriver.
- 4 After the adjustment, tighten the set screws and the head mounting screw.



Print Head Position Adjustment

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