

4. Troubleshooting

4-1 DCU Control

In case of ML-6060, you can not use the DCU under 'Diagnostic mode'
But, you can check set condition by status code

4-1-1 DCU Setup

1) Connect DCU to Controller Board Connector CN9 (4 pins)).

4-1-2 DCU Error Status Code

DCU error code will indicate malfunction area of the machine.

Display	Error status
60	OPEN FUSER ERROR
62	LOW HEAT ERROR
68	OVER HEAT ERROR
64	COVER OPEN ERROR
70	NO PAPER or NO CASSETTE
71	PAPER JAM 0
72	PAPER JAM 1
73	PAPER JAM 2
95	LSU NOT READY

4-1-3 Error Solution

Display	Solution
60, 62, 68	<ol style="list-style-type: none"> 1. Measure the resistance of the AC connector on the Fuser. Normal resistance is 2-4 ohms for 110V, 6-8 ohms for 220V. 2. Check if the fuser lamp works properly. 3. Measure the resistance at Q7 on the engine board. If abnormal, replace U503,CN502,
70	<ol style="list-style-type: none"> 1. Make sure that paper is loaded in the cassette. 2. Replace U555 sensor (photo interrupter). 3. Replace U7 on controller board.
71	<ol style="list-style-type: none"> 1. Make sure that paper is loaded in the cassette. 2. Check for pick-up unit. If it is heavily worn, replace it with new one. 3. Replace U554 sensor. 4. Check if the feed clutch works properly. 5. If abnormal, replace the feed clutch or Q3 on the Engine board .
72, 73	<ol style="list-style-type: none"> 1. Make sure that the paper being used meets the specification. 2. Check if there is a paper jam in the fuser. 3. Replace U554 on the engine board or exits ensor on the frame. 4. Check the fuser roller for any dirt. If dirty, clean the roller.
95	<ol style="list-style-type: none"> 1. Check for CN11,CN6 on the Controller board. 2. Replace U5,OSC1 on the Engine board. 3. Replace LSU.

4-2 Abnormal Image Printing and Defective Roller

If abnormal image prints periodically, check the parts shown below.

No	Roller	Abnormal image period	Kind of abnormal image
1	OPC Drum	95.6mm	White spot/Black spot
2	Charge Roller	38.5mm	Black spot
3	Supply Roller	45.3mm	Horizontal density band
4	Develop Roller	47.1mm	Horizontal density band
5	Transfer Roller	56.1mm	Black side contamination/transfer fault
6	Heat Roller	69.3mm	Black spot and fuser ghost
7	Pressure Roller	72.5mm	Black side contamination

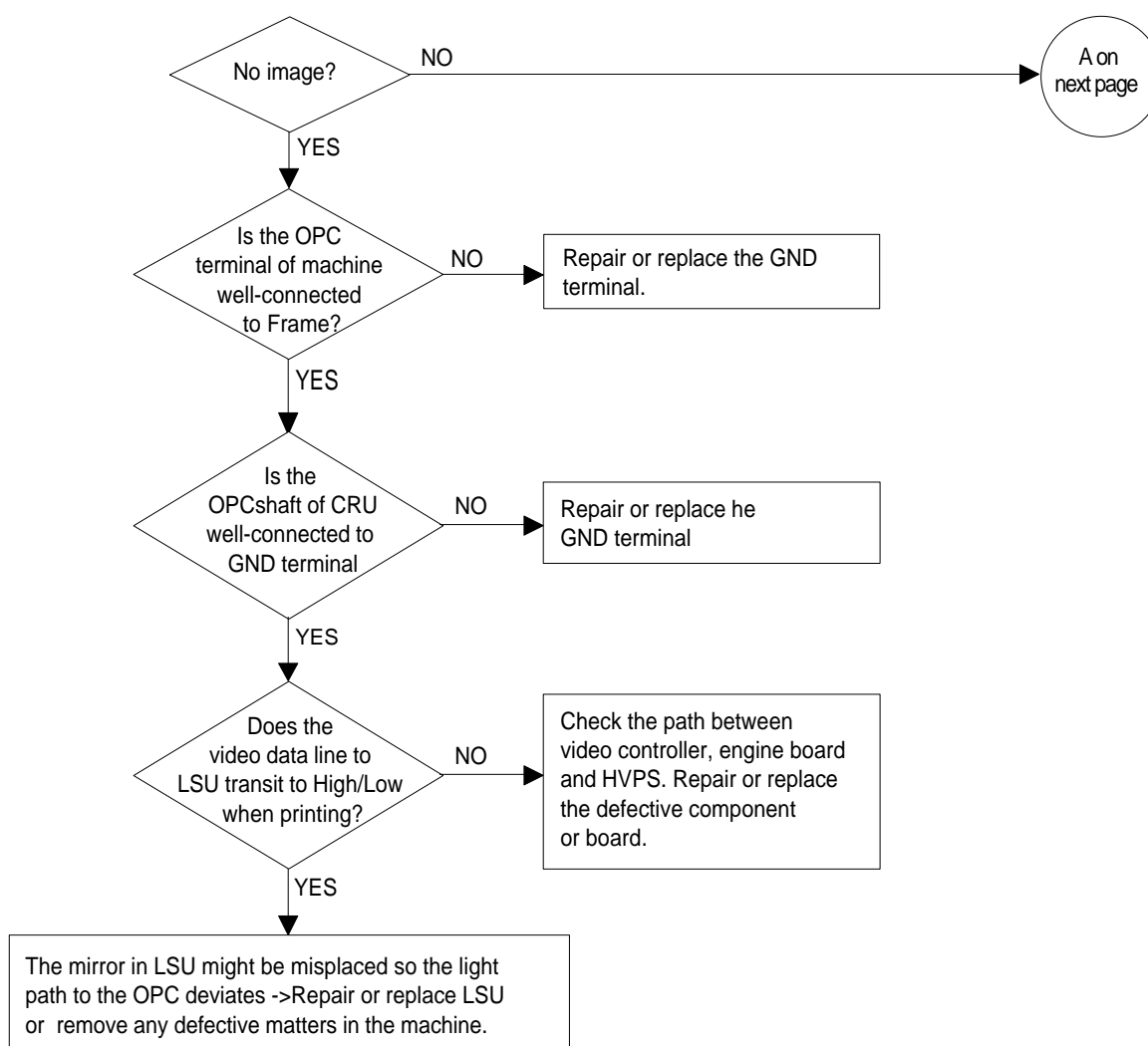
4-3 Print Quality

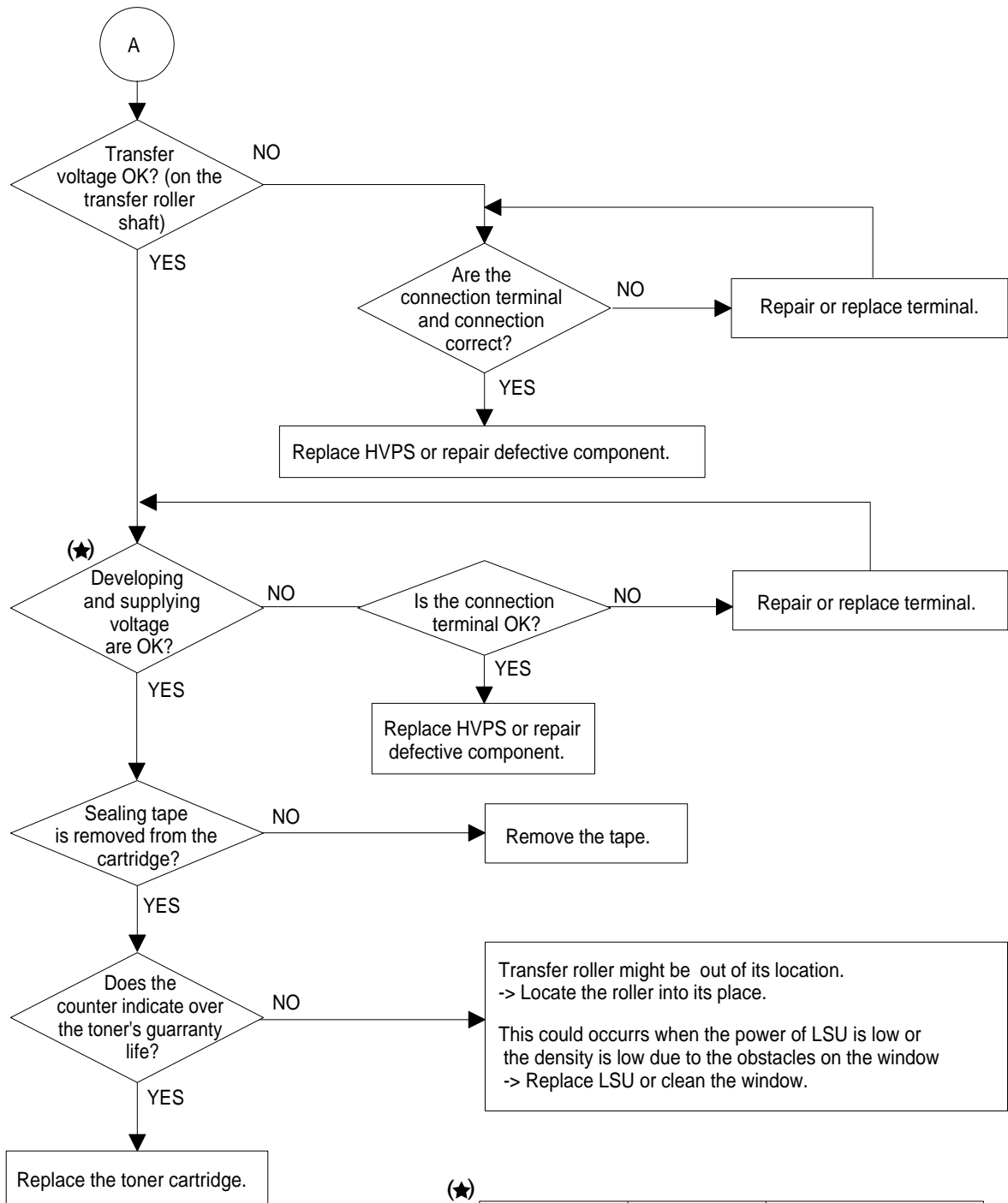
Notice

In the ML-6060 Series system, the Developing/Supplying bias is set to decrease by -50V increments when the system load is over the specified value. Therefore, if you check the bias without the toner cartridge, the system load is recognized to be infinity and Developing/Supplying bias decreases by -50V increments. At the first warm-up after the printer is powered on and then off, the software does not have the data on system load, so the Developing/Supplying bias measures -500V/-650V, the basic voltage. And, from the second warm-up and on, the software has the data on system load, so the bias measures -450V/-600V, which is less -50V than the basic voltage.

Without cartridge	First Warm-up	Second Warm-up
Developing Bias	-500V	-450V
Supplying Bias	-650V	-600v

4-3-1 No Image

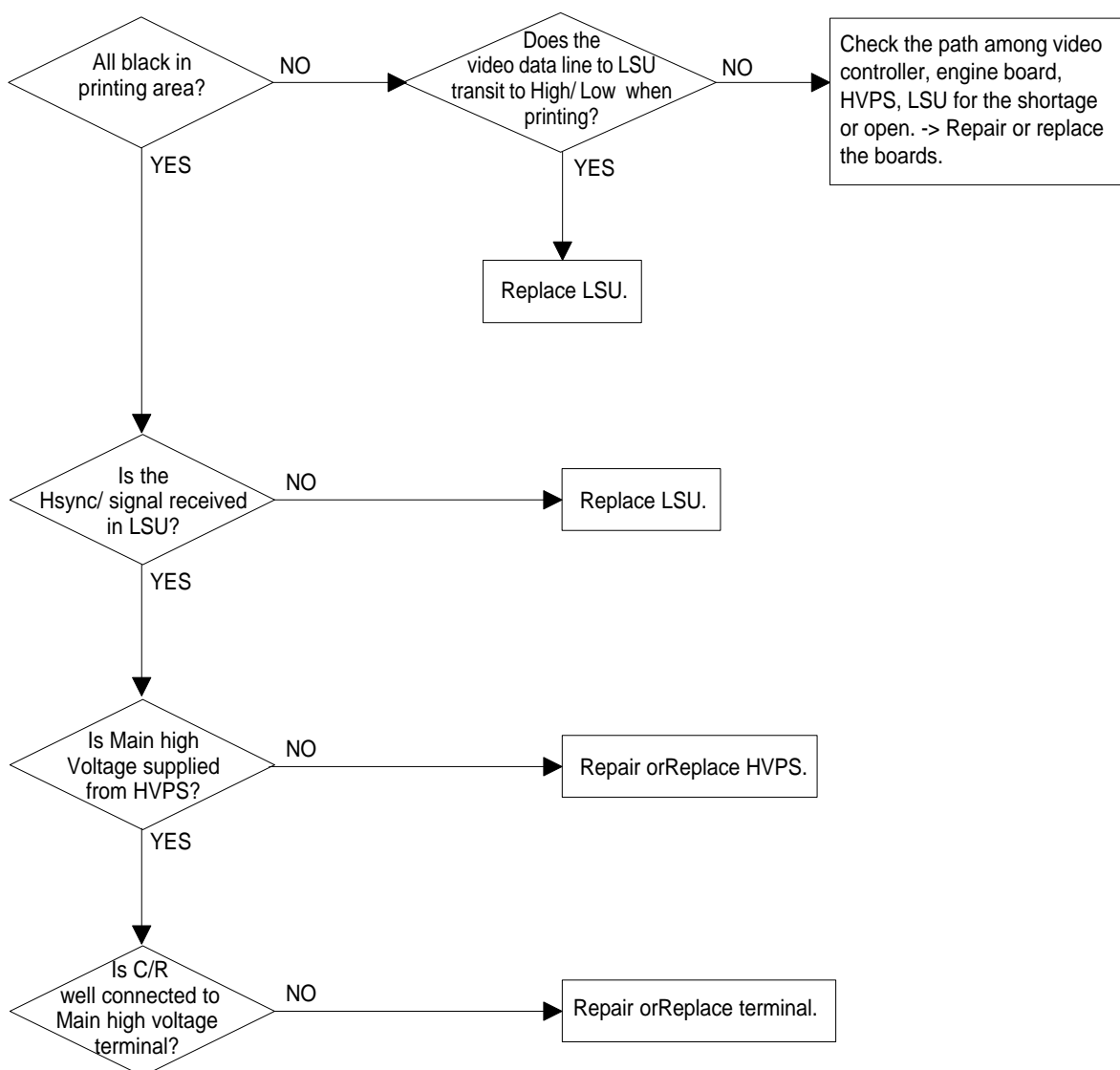




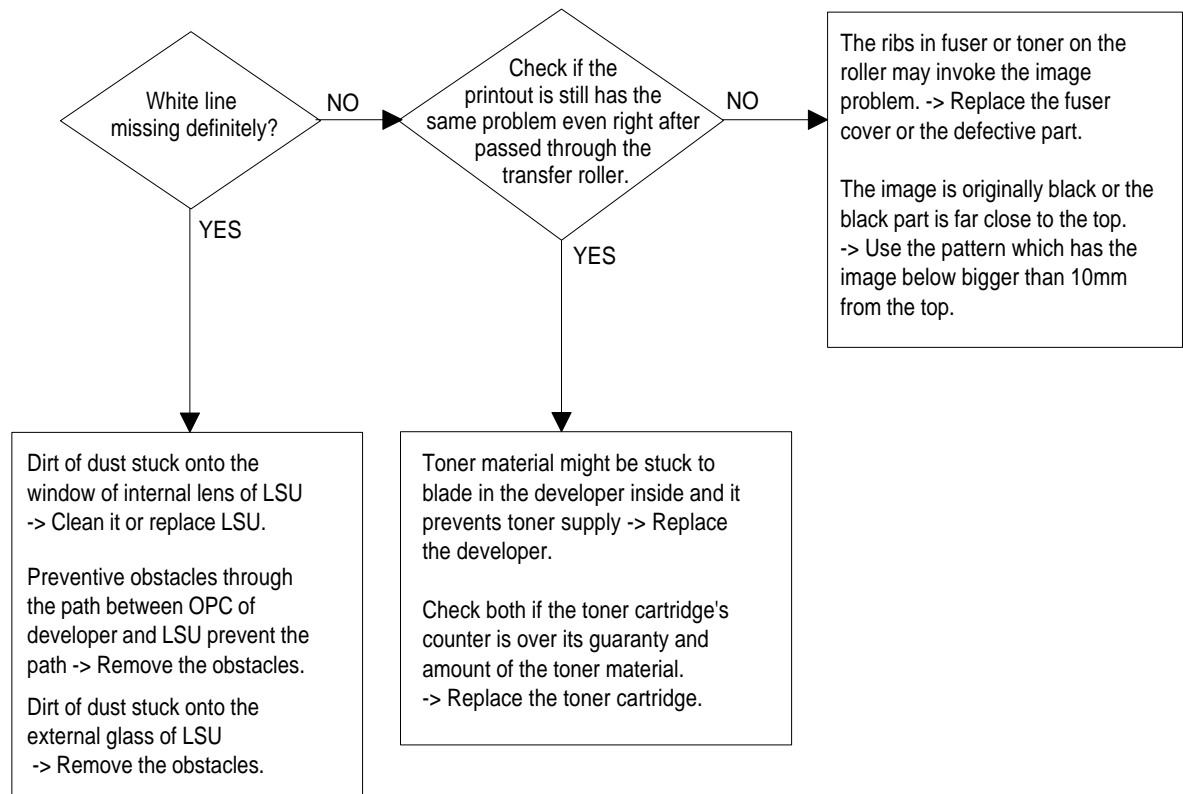
(★)

	Normal	Without Cartridge
Developing	-500V	-450V
Supplying	-650	-600V

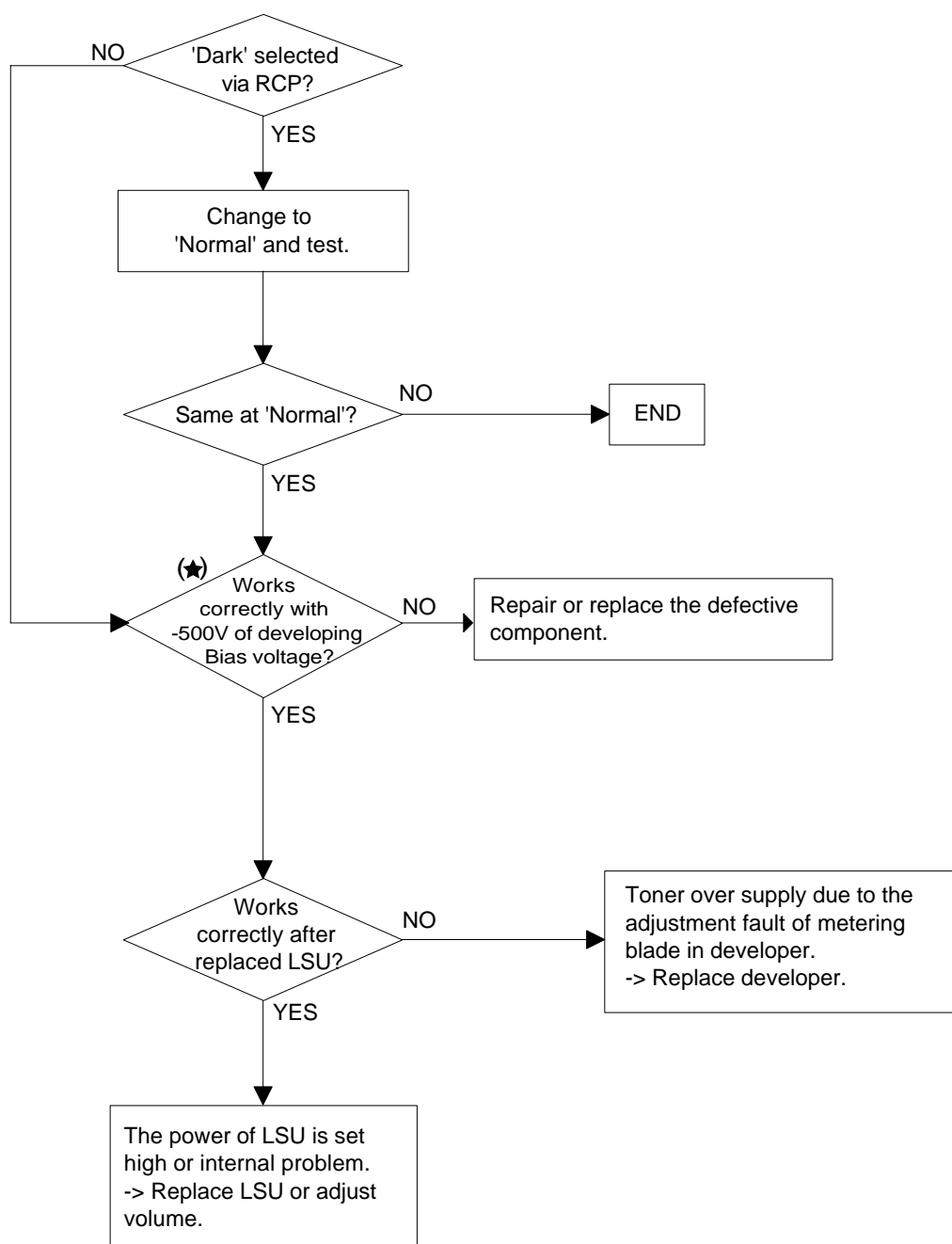
4-3-2 All Black



4-3-3 Vertical White Line (Band)



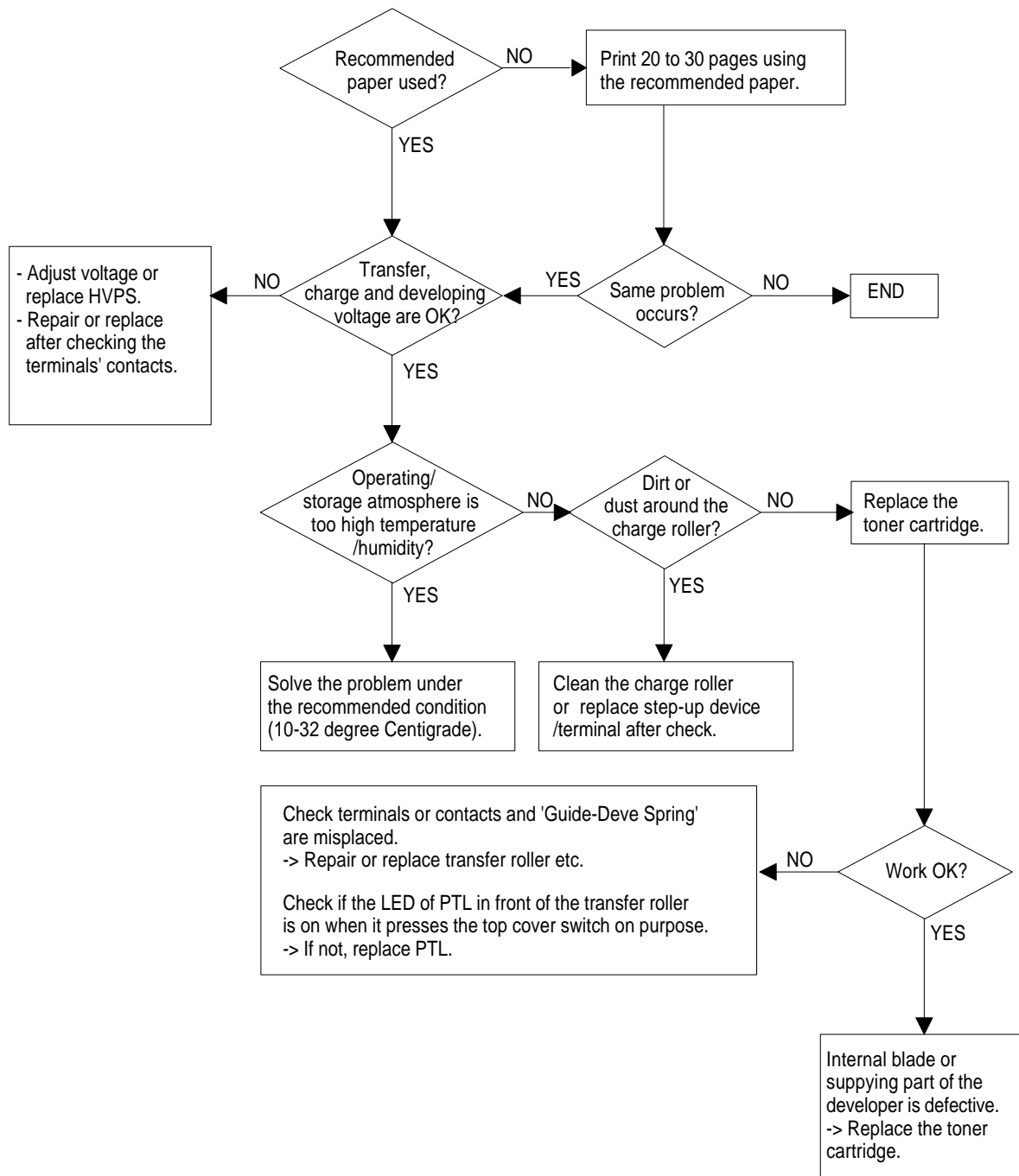
4-3-4 Dark Image



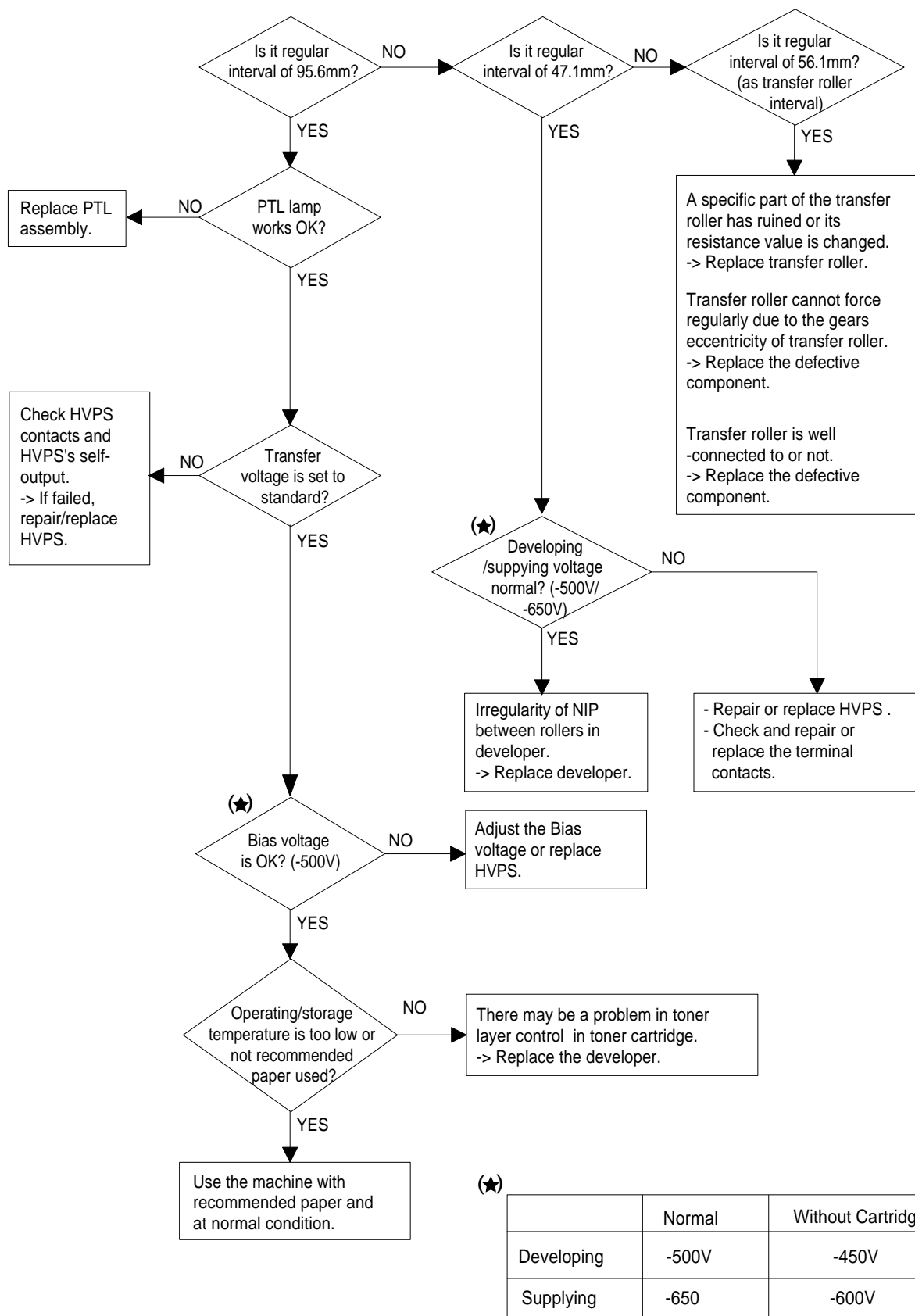
(★)

	Normal	Without Cartridge
Developing	-500V	-450V
Supplying	-650	-600V

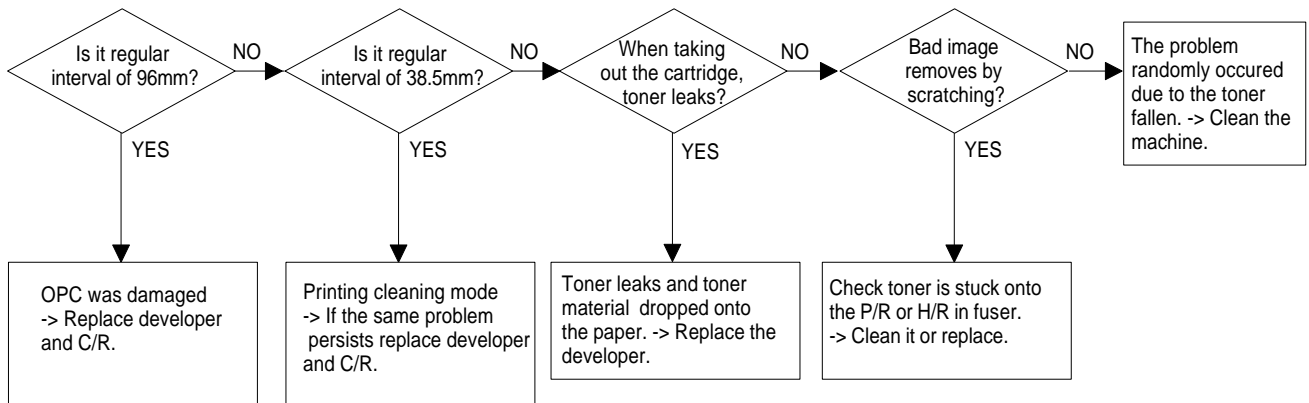
4-3-5 Background



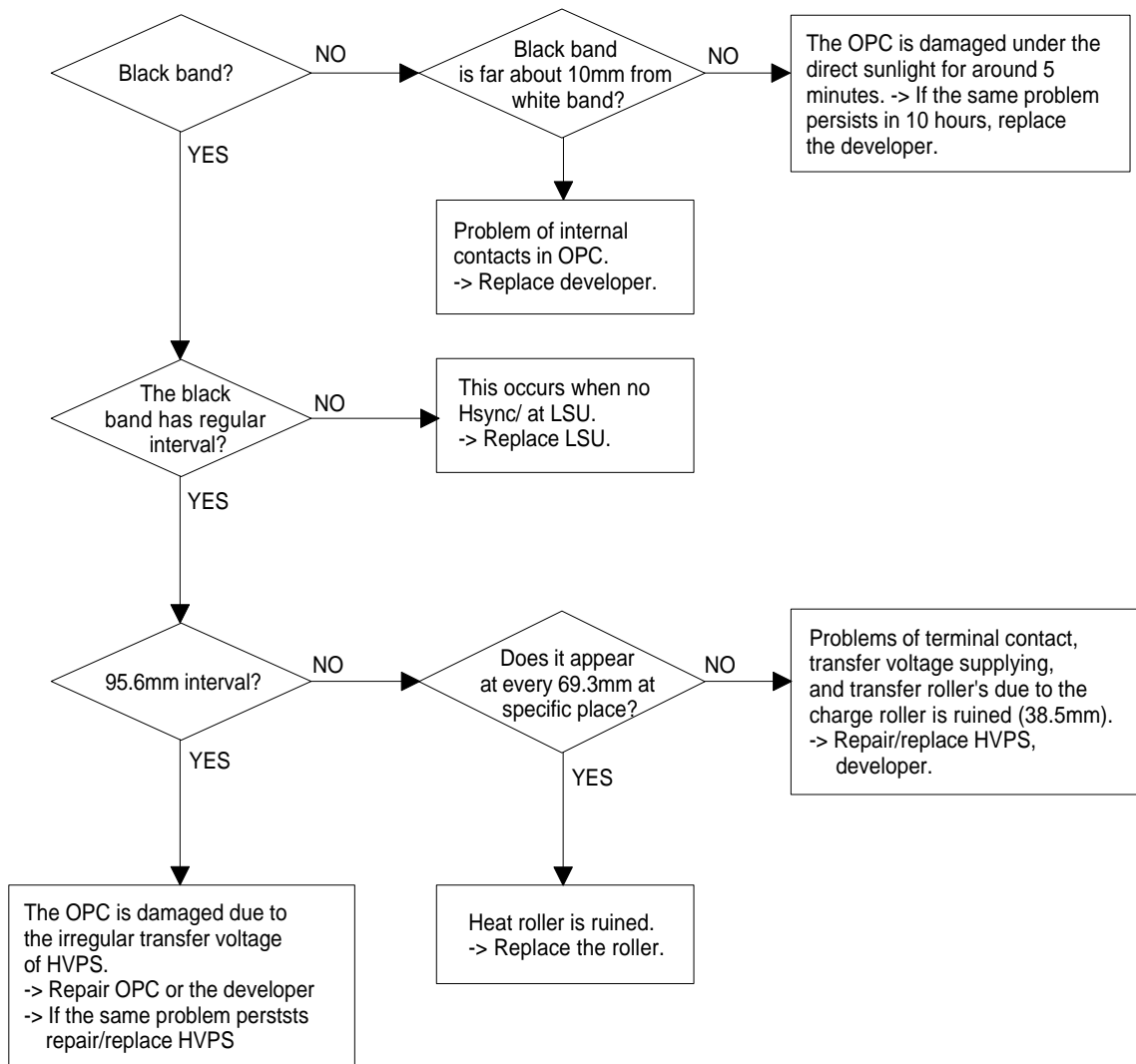
4-3-6 Ghost



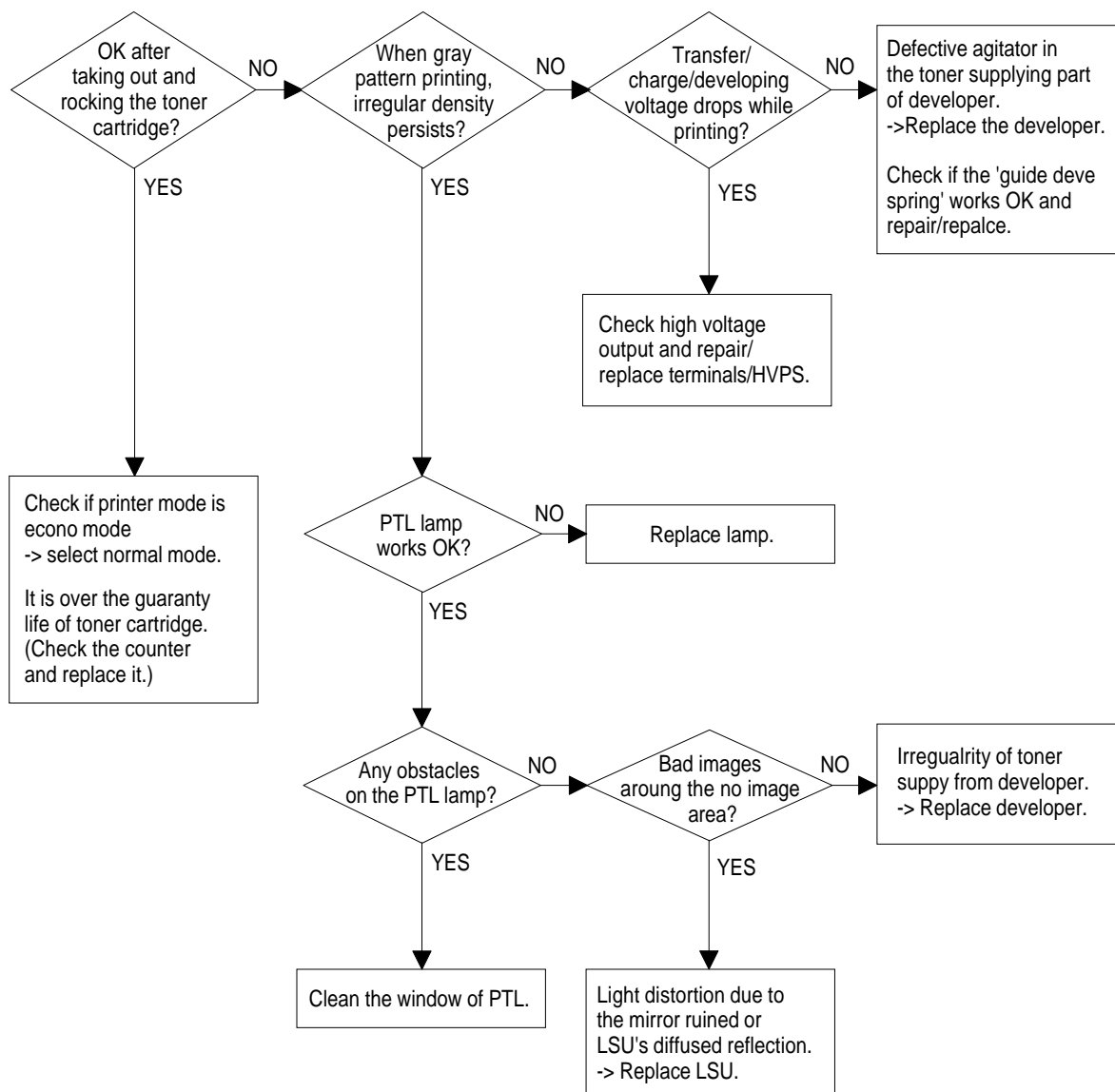
4-3-7 Black Dot



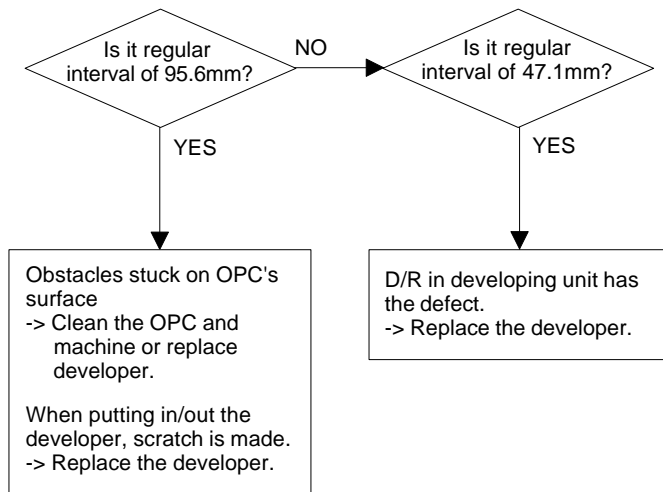
4-3-8 Horizontal Band



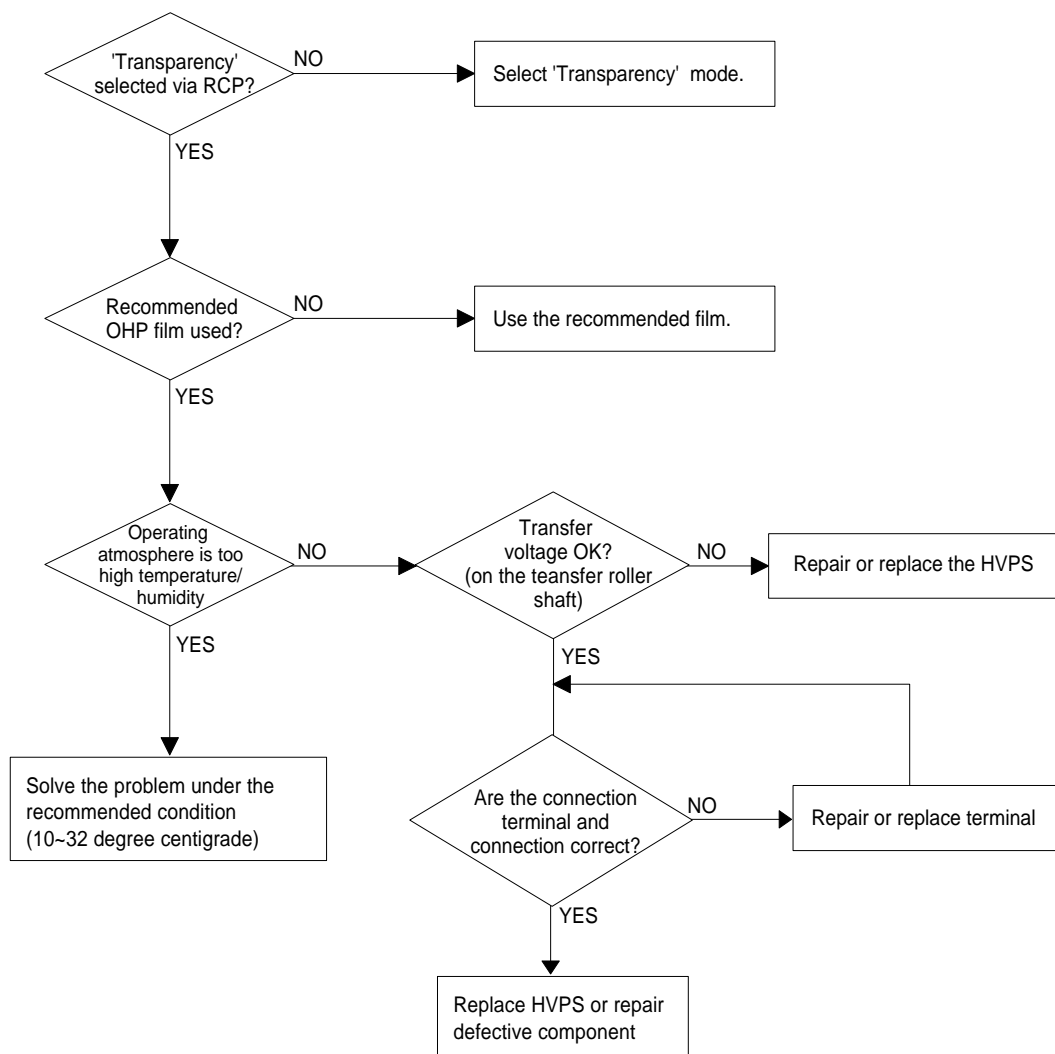
4-3-9 Irregular Density



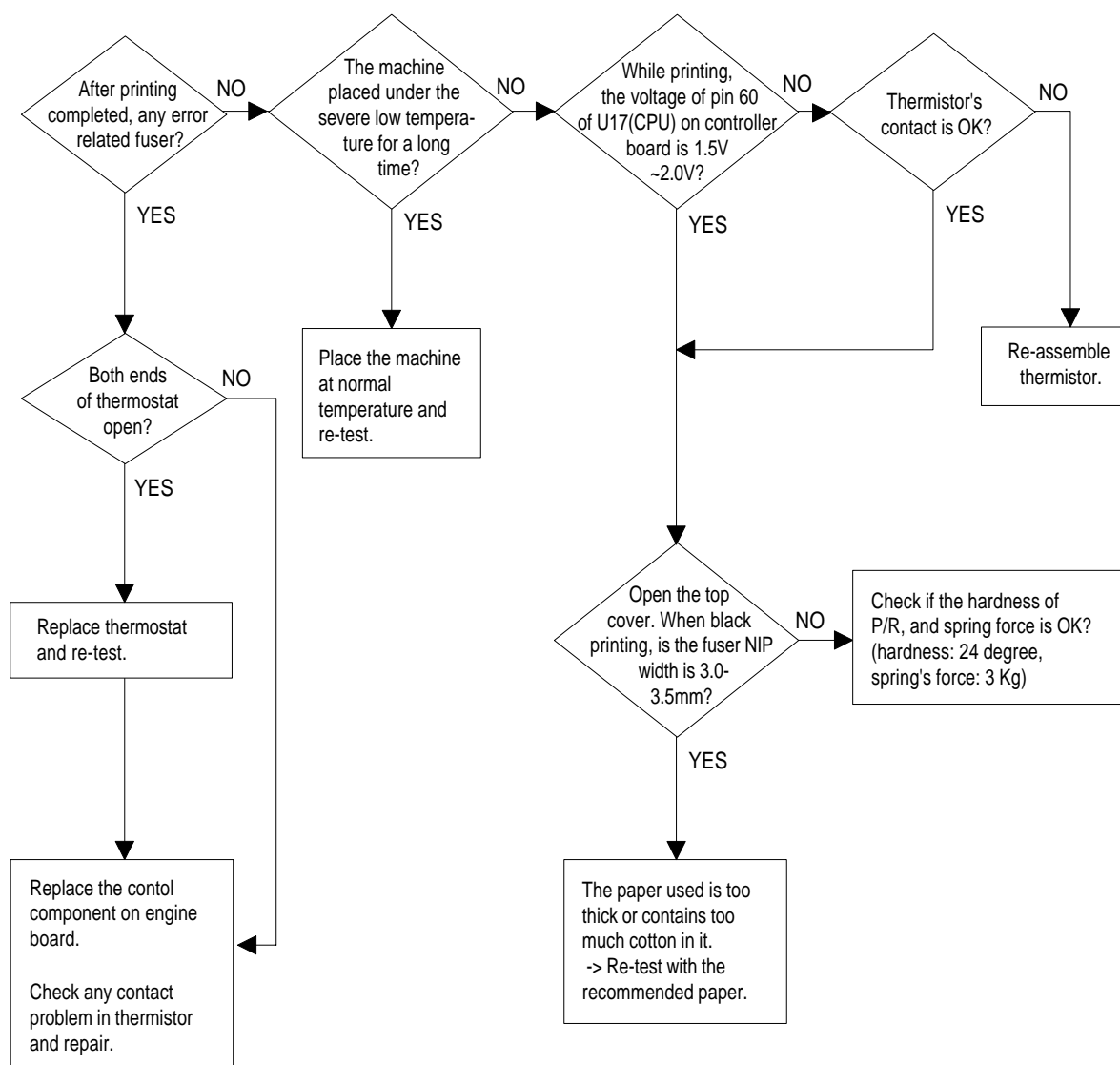
4-3-10 White Spot



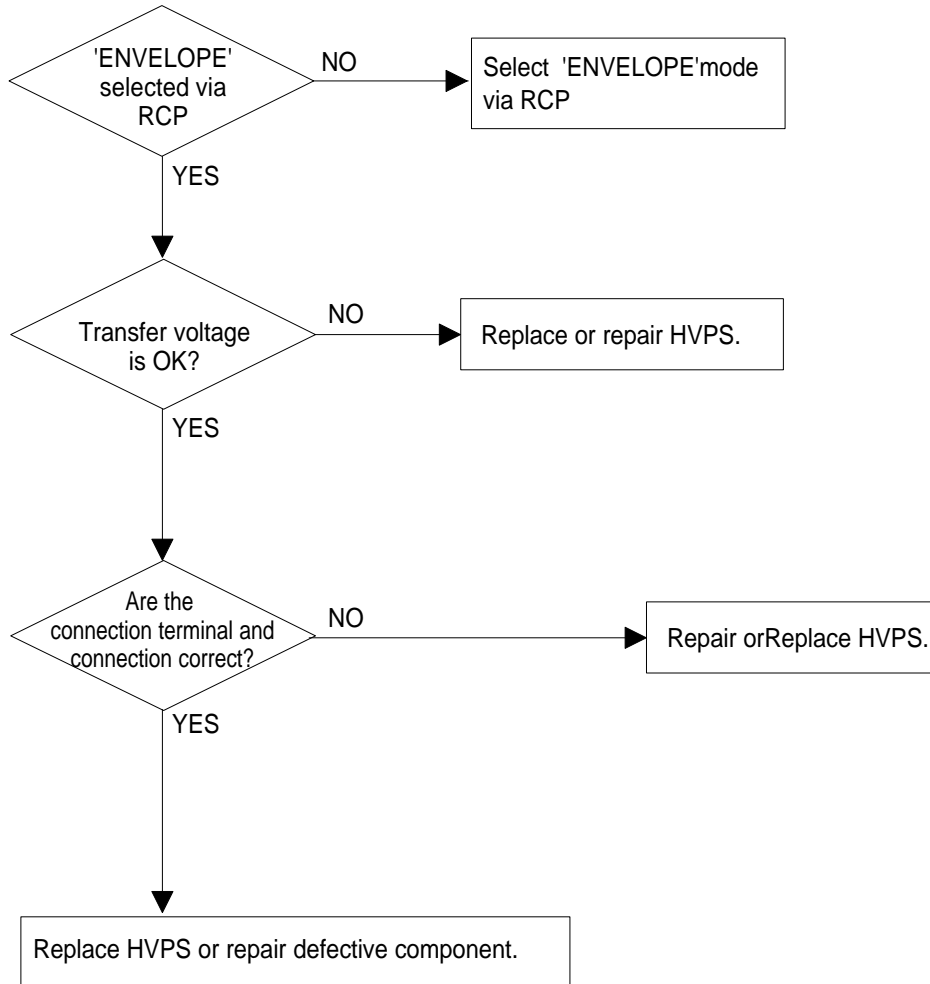
4-3-11 Trembling at the End When OHP Printing



4-3-12 Poor Fusing Grade

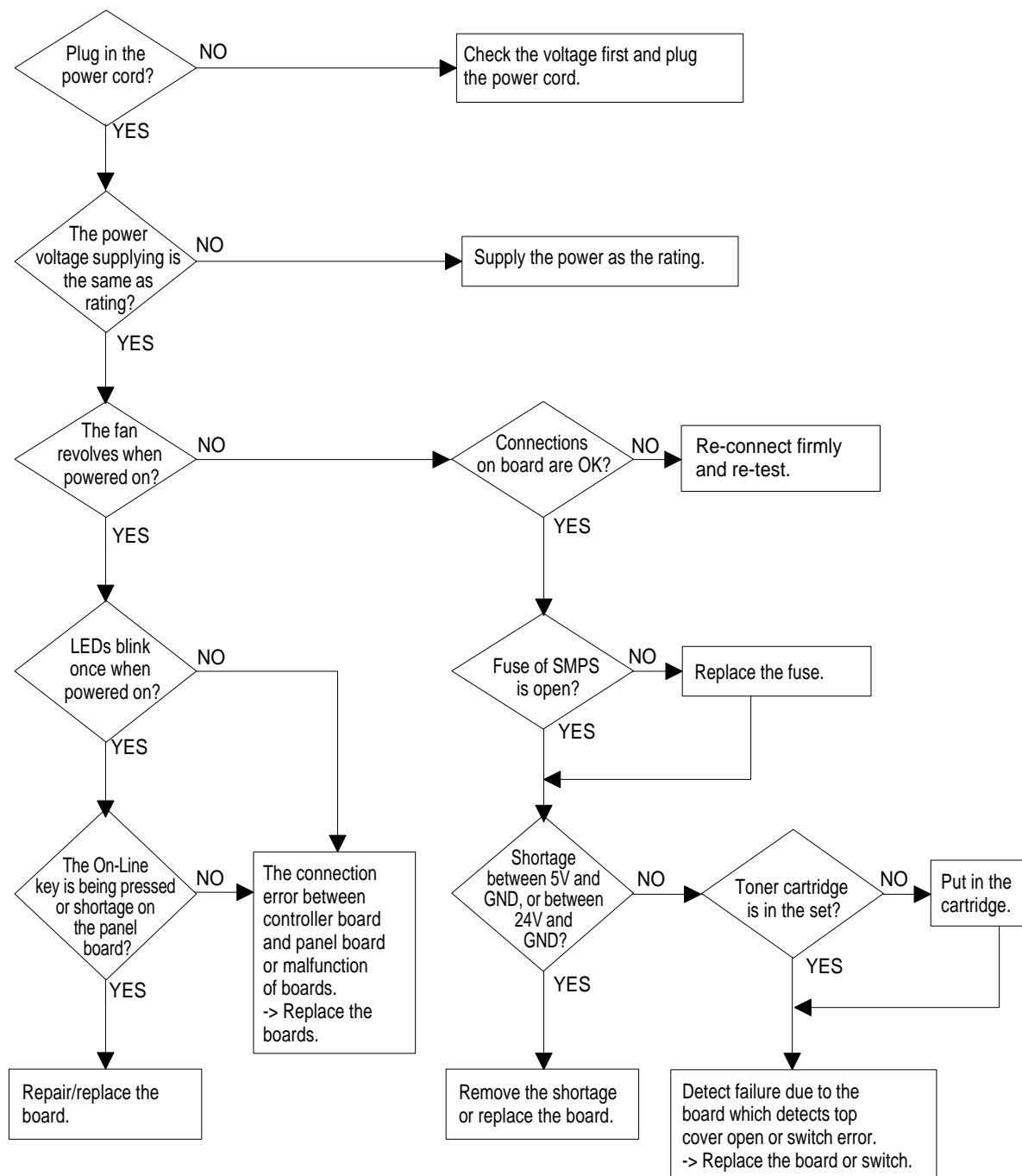


4-3-13 Poor transfer and poor fusing when ENVELOPE printing

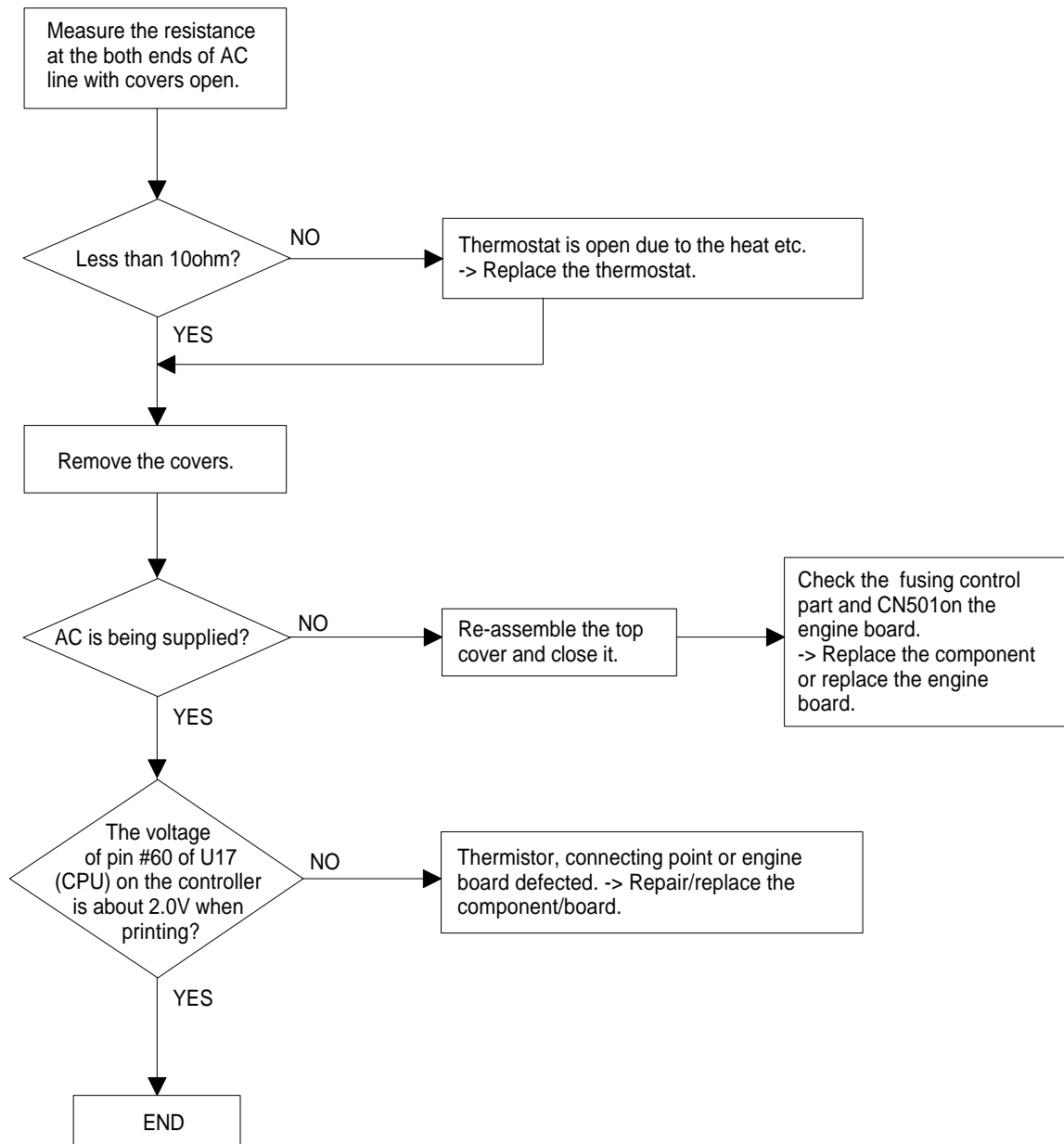


4-4 Malfunction

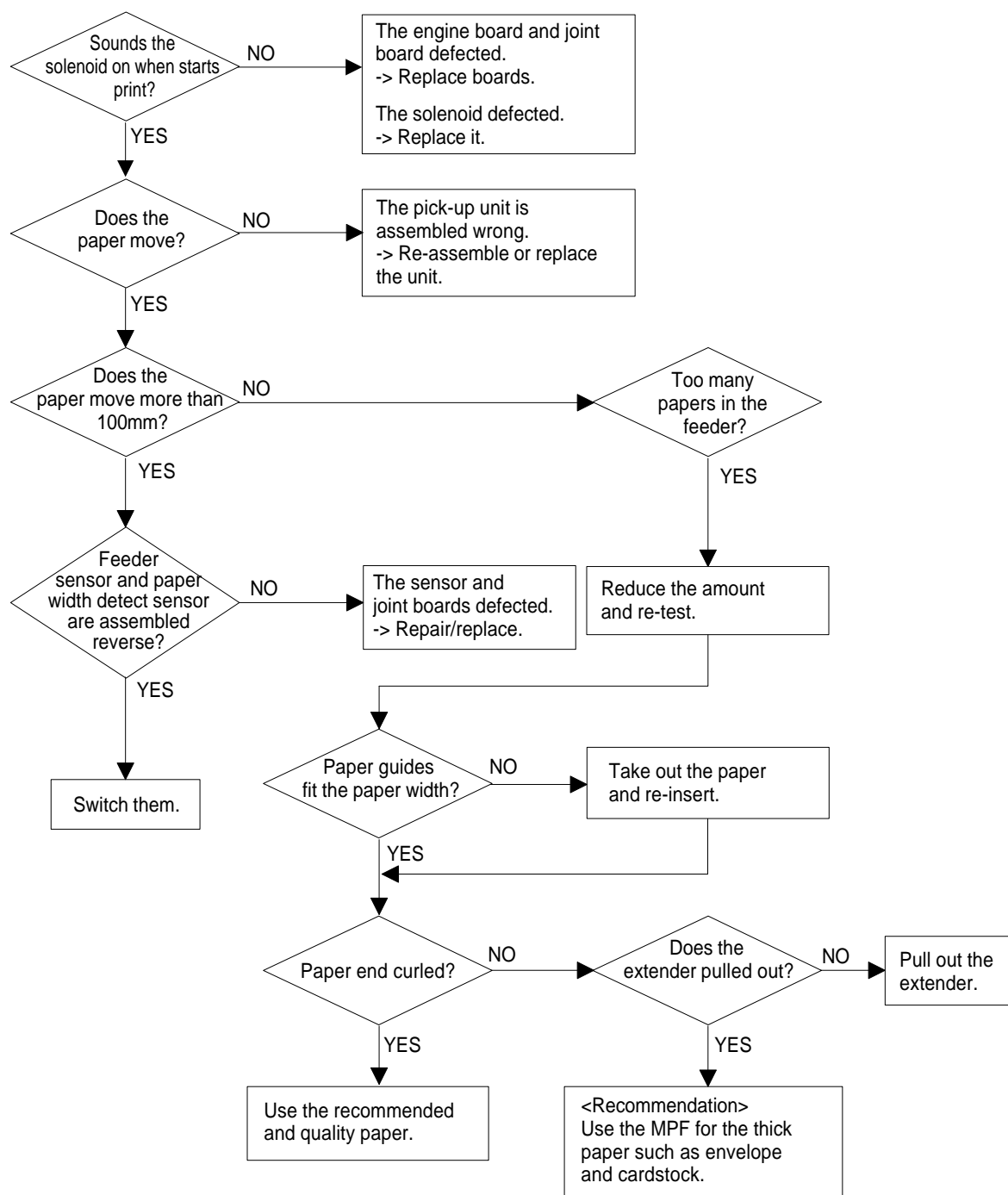
4-4-1 No Power (LED Off)



4-4-2 Fuser Error



4-4-3 Paper Jam (Mis-feeding)



4-4-4 Paper Jam (Jam 1)

