[2] Error codes shown in the "MACHINE ERROR X X " message

If the LCD shows the "PLS OPEN COVER" message, you can display the detailed error code following the MACHINE ERROR, by using the maintenance-mode function code 82 described in CHAPTER 5, Section 5.3.17.

NOTE: When checking a PCB as instructed in the "Check:" column, check its harness also.

NOTE: To check sensors, use the maintenance-mode function code 32 described in CHAPTER 5, Section 5.3.8 (that is, press the **3** and **2** keys in the maintenance mode).

Error Code (Hex)	Error factor	Check:
25	Ink cartridges had already been loaded when the power was first applied.	Reload ink cartridges, referring to the Owner's Manual.
26	The black ink has run out.	• Ink cartridges • Cartridge PCB • Head flat cables • Main PCB • Ink empty sensor
27	The yellow ink has run out.	
28	The cyan ink has run out.	
29	The magenta ink has run out.	
30	The carriage cannot travel to the right or left.	• Carriage ASSY • Encoder strip (Any stains or scratches? Hooked correctly?) • Carriage motor • Main PCB • Power supply PCB • Purge unit • Main chassis
31	After driven by the specified number of pulses, the carriage does not stop (since it cannot detect the left end of the travel).	
33	During carriage travel except printing operation, the carriage suddenly stops or the travel speed decreases abnormally.	
35	The carriage stops during low-speed travel.	
3C	During printing operation, the carriage travel speed decreases abnormally.	
41	The head drive voltage has not been turned from Low to High within the specified time.	• Carriage ASSY • Main PCB • Print head unit • Power supply PCB
42	The head drive voltage has not been turned from High to Low within the specified time.	
43	Head thermister broken.	• Print head unit • Carriage ASSY • Main PCB
44	Head thermister short-circuited or error in its related parameters stored in the EEPROM of the main PCB	
45	Flushing operation abnormally ended. (The head temperature has arisen abnormally.)	• Print head unit

Error Code (Hex)	Error factor	Check:
46	The number of performed purge sequences has reached the limit.	• Ink absorber box • Main PCB
47	Head parameters stored in the EEPROM are invalid. (This code may appear only in the maintenance mode.)	• Print head unit • Main PCB • Power supply PCB
4D	Error in the head drive voltage parameter stored in the EEPROM but not accessible at the user site. (This code may appear only in the maintenance mode.)	• Main PCB
4E	Out of the allowable range of the head drive voltage designed for individual print head properties. (This code may appear only in the maintenance mode.)	• Main PCB • Print head unit
50	The purge cam HP switch does not come ON even after the purge cam has been driven by the specified number of pulses.	• Purge unit • Purge-related gears on the main chassis (Purge bevel gear A, ASF/purge idle gear, and ASF-purge switching gear 23) • Main chassis • Paper feed motor • Main PCB
51	The purge cam HP switch does not go OFF even after the purge cam has been driven by the specified number of pulses.	
52	The pump switching cam HP switch does not come ON even after the switching cam has been driven by the specified number of pulses.	
53	The pump switching cam HP switch does not go OFF even after the switching cam has been driven by the specified number of pulses.	
7D	Any of the ink dot counters has counted up to the specified number of dots, meaning the end of the head service life.	• Print head unit • Ink absorber box
7E	No head parameters stored in the EEPROM. (This code may appear only in the maintenance mode.)	• Print head unit • Main PCB
7F	Print engine error.	• Main PCB
80	At the start of recording operation, it is detected that paper is smaller than A4 size in length or width.	• Paper width sensor • Paper size
83	Recording paper jam. (At the retry of paper pulling-in operation, the registration sensor is not OFF.)	• Registration sensor actuator • Main PCB

Error Code (Hex)	Error factor	Check:
84	Recording paper jam. (The paper width sensor and/or registration sensor has detected a paper jam.)	• Paper width sensor actuator • Registration sensor actuator • Main PCB
88	Recording paper jam. (Even after paper pulling-in operation, the registration sensor is still OFF.)	
A1	Top cover or control panel opened.	• Cover/panel open sensor actuator • Main PCB • Top cover and control panel
A2	Document too long to scan.	• Document front sensor actuator • Document rear sensor actuator • Control panel PCB • Document sensor PCB • Document feed roller • Scanner motor • Main PCB
A3	Document not detected by the document rear sensor.	
A4	50% or more faulty of white level data.	• CIS unit • Main PCB
A7	One-line feeding timeout.	
A8	One-line scanning timeout.	
AC	Less than 50% faulty of white level data.	• CIS unit • Main PCB
B9	Light emission intensity error of the LED array (Exceeding the upper limit).	• CIS unit • Main PCB
BB	White level data value too low.	• CIS unit • Main PCB • Document pressure bar (any stains?)

Error Code (Hex)	Error factor	Check:
BD	Black level data value too high.	• CIS unit • Main PCB
D∗	Modem error.	• Main PCB
E4	Out of recording paper.	• ASF • Registration sensor actuator • Document feed roller • Main PCB
E6	Write error in EEPROM.	• Main PCB
E8	Data scanning error during transmission.	• CIS unit • Main PCB
EA	Document removed at phase B.	
F3 F5	Internal software error.	• Replace the main PCB if this error occurs frequently.
F6	PC interface error.	• Interface cable • Main PCB
FF	Memory management error.	• Replace the main PCB if this error occurs frequently.