

# ERRO MESSAGE FUNCTION

## ERROR CODE EXPLANATION

This projection systems have the capability of displaying an error message when either of the following occur: projector operation failure or improper connection.

Code messages are displayed on the 2 seven segment displays located on the rear control panel.

Code list and explanations can be found on the attached sheets.

### 1. 7=-Segment Display Error Code List

#### 1. Communication Errors

- (1) "F3"  
Point PWB communications error.
- (2) "F7"  
Point PWB does not respond.
- (3) "F1"  
Switcher communications error.
- (5) "F5"  
Switcher does not respond.
- (6) "F4"  
System program has crashed.
- (7) "F8"  
Convergence adjustment has stopped. →
  - Is the PP pulse normal.
  - CF drive overvoltage.
- (8) "F0"  
Fan stoppage.

#### 2. Power Supply Failure

- (1) "A1" ~ "AF"  
Refer to " 2. Power Unit Failure Diagnosis" for further details.  
**NOTE:** I am renaming the error code explanation headings on the next two pages.

#### 3. DEF PWB Failure

- (1) "B1" ~ "BF"  
Refer to "3. DEF PWB Failure Diagnosis" for further details.

#### 4. Gain CTL/Video OUT PWB Failure

- (1) "41" ~ "7F"  
Refer to "5. Gain CTL/Video OUT PWB Failure Diagnosis for further details.

#### 5. HV PWB Failure

- (1) "D0"  
HV OFF with the protector operated. →
  - The PS unit 180 V dropped.
  - DEF deflection stopped.
  - Video OUT output abnormal.
  - HV overcurrent.
  - HV overvoltage.
- (2) "D1"  
HV OFF without the protector operated. →
  - Cause: HV PWB in trouble.

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### 2. Power Unit Failure Diagnosis

Display	POWER	Symptom	Next Step
A1	NG	5V fuse blown.	
A2	?	180V power cut off.	
A3	?	180V power cut off.	
A4	***	***	
A5	?	110V power cut off. (5V fuse blown)	
A6	***	***	
A7	?	180V power cut off. 110V power cut off.	
A8	?	F/V power cut off.	
A9	?	F/V power cut off.	
AA	?	F/V power cut off. 180V power cut off.	
AB	?	F/V power cut off. 180V power cut off, and 5V fuse blown	
AC	***	***	
AD	?	F/V power cut off. 110V power cut off	
AE	***	***	
AF	NG	All power cut off or power OFF.	

Note: ? : This mode is not currently used.

\*\*\* : Unused mode. Possible detection section failure.

### 3. DEF PWB Failure Diagnosis

Display	DEF	Symptom	Next Step
B1	OK	H sync input alarm	TO STEP 01
B2	OK	V sync input alarm	TO STEP 01
B3	OK	HV sync alarm	TO STEP 01
B4	NG	H deflection stopped	TO STEP 02
B5	NG	H deflection stopped and H sync input alarm	TO STEP 02
B6	NG	H deflection stopped and V sync input alarm	TO STEP 02
B7	NG	H deflection stopped and HV sync input alarm	TO STEP 02
B8	NG	V deflection stopped	TO STEP 03
B9	NG	V deflection stopped and H sync input alarm	TO STEP 03
BA	NG	V deflection stopped and V sync input alarm	TO STEP 03
BB	NG	V deflection stopped and HV sync input alarm	TO STEP 03
BC	NG	HV deflection stopped	TO STEP 01, 02, 03
BD	NG	HV deflection stopped and H sync alarm	TO STEP 01, 02, 03
BE	NG	HV deflection stopped and V sync alarm	TO STEP 01, 02, 03
BF	NG	HV deflection stopped and HV sync alarm	TO STEP 01, 02, 03

\* Step 01 : Check GAIN CTL PWB for valid input signal.

\* Step 02 : H deflection yoke connector check and F/V power check.

\* Step 03 : Deflection yoke connector check and DEF output check.

**4. GAIN CTL/VIDEO PWB Failure Diagnosis**

**NOTE:** This listing containing variations of the following explanation which is confusing. For example OUT (B) Not output is easier to understand when written: No (B) OUTPUT'. Therefore the following corrections should be made for this page and the next:

Current listing	Correction
OUT (B) Not output	No (B) Video Output
OUT (G) Not output	No (G) Video Output
OUT (R) Not output	No (R) Video Output
OUT (R, G, B) Not output	No (R, G, B) Video Output
GAIN (R, G, B) Not output	No (R, G, B) Video Gain Output

Display	Gain/OUT	Symptom	Next Step
41	NG	OUT (B) Not output.	TO STEP 01
42	NG	OUT (G) Not output.	TO STEP 01
43	NG	OUT (G, B) Not output	TO STEP 01
44	NG	OUT (R) Not output	TO STEP 01
45	NG	OUT (R, B) Not output	TO STEP 01
46	NG	OUT (R, G) Not output	TO STEP 01
47	NG	OUT (R, G, B) Not output	TO STEP 01
48	***	***	
49	NG	GAIN (B) Not output	TO STEP 02
4A	***	***	
4B	NG	GAIN (B), OUT (G) Not output	TO STEP 03
4C	***	***	
4D	NG	GAIN (B), OUT (R) Not output	TO STEP 03
4E	***	***	
4F	NG	GAIN (B), OUT (R, G) Not output	TO STEP 03
50	***	***	
51	***	***	
52	NG	GAIN (G) Not output	TO STEP 02
53	NG	GAIN (G), OUT (B) Not output	TO STEP 03
54	***	***	
55	***	***	
56	NG	GAIN (G), OUT (R) Not output	TO STEP 03
57	NG	GAIN (G), OUT (R, B) Not output	TO STEP 03
58	***	***	
59	***	***	
5A	***	***	
5B	NG	GAIN (G, B) Not output	TO STEP 02
5C	***	***	
5D	***	***	
5E	***	***	
5F	NG	GAIN (G, B), OUT (R) Not output	TO STEP 03

## ERROE MESSAGE FUNCTION

Display	Gain/OUT	Symptom	Next Step
60	***	***	
61	***	***	
62	***	***	
63	***	***	
64	NG	GAIN (R) Not output	TO STEP 02
65	NG	GAIN (R), OUT (B) Not output	TO STEP 03
66	NG	GAIN (R), OUT (G) Not output	TO STEP 03
67	NG	GAIN (R), OUT (G, B) Output	TO STEP 03
68	***	***	
69	***	***	
6A	***	***	
6B	***	***	
6C	***	***	
6D	NG	GAIN (R, B) Not output	TO STEP 02
6E	***	***	
6F	NG	GAIN (R, B), OUT (G) Not output	TO STEP 03
71	***	***	
72	***	***	
73	***	***	
74	***	***	
75	***	***	
76	NG	GAIN (R, G) Not output	TO STEP 02
77	NG	GAIN (R, G), OUT (B) Not output	TO STEP 03
78	***	***	
79	***	***	
7A	***	***	
7B	***	***	
7C	***	***	
7D	***	***	
7E	***	***	
7F	NG	GAIN (R, G, B) Not output	TO STEP 04

Note: \*\*\* Unused mode. Possible detection section failure.

\* Step 01: Check if the CRT is cut off.

If it is replace the CRT PWB.

\* Step 02: 1) Verify valid input signal.

(If this problem occurs in video but not RGB mode, then the V4-DEC PWB is faulty.)

**Note:** An all white raster must be input to run this check.

2) If nothing unusual is found, replace the GAIN CTL PWB Check performance one more time.

\* Step 03: If error persists after performing step 02; Go back to step 01.

\* Step 04: 1) First, check the power supply unit. (180 V, 15 V)

2) When the power supply unit is normal, perform Step 02.