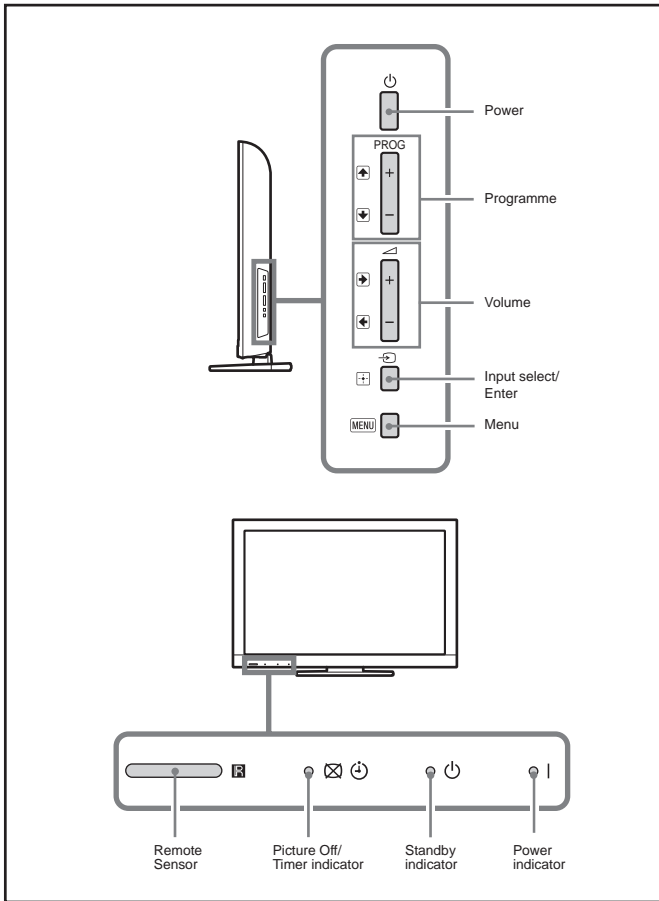


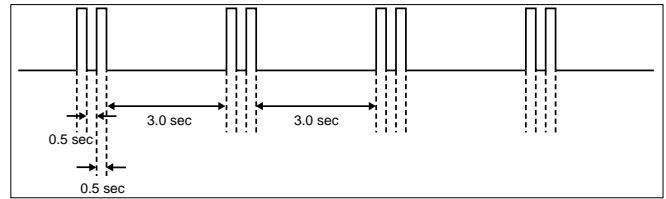
SECTION 2 SELF DIAGNOSTIC FUNCTION

2-1. Overview of Control Buttons



2-4. LED Pattern

When safety shutdown occurs, Standby LED display reports the cause by using the lightning patterns as indicated below.



Example:

The figure above shows LED display when SHUTDOWN is caused by Balancer Error. It repeats flashing for a specified number of times in 0.5sec/cycle and has a 3 seconds interval of lighting off. Please note that a 3 seconds interval of lighting off is fixed regardless of abnormal state types.

2-2. LED Display Specification

LED Type	Description	Remark
POWER	Green: LED	Green lights at power ON.
STANDBY	Red: One LED	Red lights during standby.
Timer	Orange :One LED	Orange lights during Timer activation.

2-3. LED Display Control

Status	Display		Remark
	Power LED	Standby LED	
POWERON	Green lights	OFF	Microcomputer is in a normal state.
STANDBY	OFF	Red lights	Microcomputer is in a sleep state.
Failure	OFF	Red flashes	Classify the trouble causes by the no. of red blinking.

2-5. Standby LED Error Display and Board Replacement Order

Perform below countermeasures according to Standby LED blinking times.

Blinking times	Error	Countermeasure (Replace either/all according to sequence)
2	Main Power Error	1) Power Unit(26"), G2LE Unit(32"), G2HE Unit(40") board. 2) BAA board.
3	DC_ALERT 1/ Audio Error/ Motionflow Error	1) BAA board. 2) Power Unit(26"), G2LE Unit(32"), G2HE Unit(40") board. 3) TCON. 4) Speaker.
4	Balancer Error	1) Inverter board. 2) Panel. 3) Power Unit(26"), G2LE Unit(32"), G2HE Unit(40") board. 4) BAA board.
5	T-CON Error / Panel ID NVM Error	1) T-CON. 2) BAA board. 3) LVDS Cable. 4) Power Unit(26"), G2LE Unit(32"), G2HE Unit(40") board.
6	Backlight Error	1) Inverter board 2) Power Unit(26"), G2LE Unit(32"), G2HE Unit(40") board. 3) BAA board.
7	Temp. Error	1) BAA board. 2) Power Unit(26"), G2LE Unit(32"), G2HE Unit(40") board.

Note:-

- 1: Each of the above blinking repeats 3 seconds.
2. Countermeasure is list out by priority.

Reference	Symptom (dead set)							Video distorted or missing						
	2Blinks	3Blinks	4Blinks	5Blinks	6Blinks	7Blinks	No Power	No Video BL OK OSD OK	No Video No BL	No Video BL OK No OSD	No Tuner Video OK	Tuner OK Video 1-3 Bad	No HDMI	No Audio
BAA board	●	●		▲		▲	●	●	●	●	●	●	●	●
H2LR board														
H2LS														
HLR3 board														
SW1board														
Power Unit (26")	●				●	●	●		●					●
G2LE Unit (32")	●				●	●	●		●					●
G2HE Unit (40")	●				●	●	●		●					●
T-con board		●		●		●				▲				
Speaker unit		●												●
RF module											●			
Panel module			●											
FFC cable		▲								●				
Joint connector									●					
Problem	No Power	BAA board	Balancer	TCON, Panel ID	Inverter	Temperature	No Power	BAA board	BAA board	BAA board	BAA board	BAA board	BAA board	BAA board

- Doubtful part
- ▲ Few possibility

SECTION 4 SERVICE ADJUSTMENT

4-1. Accessing Self Diagnostic Menu

- While TV on standby mode, press the following sequence on the Remote commander.
< Display--> <5>--> <Vol Down>--> <Power>

Self Check		
002	Main Power	001
003	Dc_Alert	000
003	Aud_Prot	000
003	MotionFlow	000
004	Balancer_Error	000
005	T-CON Error	000
005	Panel ID NVM Error	000
006	Backlight Error	000
007	Temp_Error	000

indicates no. of times an error was detected.
0 indicates no error was detected.

00009	00027	00009
Total Hours of Operation (max 65535)	Boot Count (max 65535)	Total Panel Hours (max 65535)

Diagnostic Menu Sample

- To Reset Error Count & Error History
Press < 8 > --> < 0 > key
- To Reset Panel Operation Time
Press < 7 > --> < 0 > key
- To exit, turn the power off using Remote.

4-2. Accessing Service Mode

- While TV on standby mode, press the following sequence on the Remote commander.
< Display--> <5>--> <Vol Up>--> <Power>

Tuning System	<[Auto]>
No_Signal_Mute	<[Off]>
Serial Number Edit	
Self Diagnosis History >>	
LVDS Spectrum (%)	<[10]>
Low of HPD	<[5]>
VCR1	<[off]>
GAISOU	<[0]>

Service Mode Menu Sample

- Use the ↓ or ↑ button to select the item you want to refer and press for details.
Example Status information

Service Mode	
Status Information >>	
Test Reset	<[Off]>
Tuning System	<[Auto]>
No_Signal_Mute	<[Off]>
Serial Number Edit	
Self Diagnosis History >>	
LVDS Spectrum (%)	<[10]>
Low of HPD	<[5]>

Main Micro	
SW Version	TM0.341.012
NVM Version	TD0.341
Boot Version	TB0.341
Panel Version	MT0000.000.0030.LT
Flash PQ Version	
AQ Version	AQ0.003

4-3. GAISOU Adjustment (For Board Replacement)

- When new board is replaced, please confirm the color ornamental of the TV set.
- While TV on standby mode, press the following sequence on the Remote commander.
<Display> → <5> → <Vol Up> → <Power>

Tuning System	<[Auto]>
No_Signal_Mute	<[Off]>
Serial Number Edit	
Self Diagnosis History >>	
LVDS Spectrum (%)	<[10]>
Low of HPD	<[5]>
VCR1	<[off]>
GAISOU	<[0]>

Service Mode Menu Sample

- Use the ↓ or ↑ button to select the GAISOU item.

Service Mode	
Status Information >>	
Test Reset	<[Off]>
Tuning System	<[Auto]>
No_Signal_Mute	<[Off]>
Serial Number Edit	
Self Diagnosis History >>	
LVDS Spectrum (%)	<[10]>
Low of HPD	<[5]>
VCR1	<[off]>
GAISOU	<[0]>

- The color variation table of each TV set as below:-

Case Table	Color Type	Model Name	Panel ID		Area ID
			Resolution	Inch Size	
00	Default	5-2	WXGA/FHD	40, 32, 26, 22	ALL
01	Glossy Gun Metallic (back print)	3a-2	FHD	32,40,46	GA
02	Glossy Silver (back print)	3a-2	WXGA	22,26,32	GA
03	Red	3a-2	FHD	32	GA
04	Blue	3a-2	FHD	32	GA
05	Matt Gun Metallic	3a-2	FHD	32,40,46	CH
06	Flat Gun Metallic Hairline	3a-1, 3a-0.5	HFRV/ FHD	32,40,46,55	ALL
07	Silver	5-0	FHD	32,40	ALL
08	Black	5-0	WXGA	26,32	ALL

- For example if color is Red than should select 03 in the service mode of the TV set.