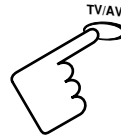
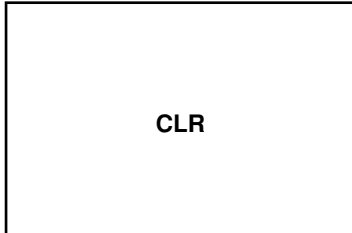


Service Adjustments with Replacing Memory IC(IC802)

Note: The CPU (IC801) and memory IC (IC802) store the service adjustments data and controls data for each circuit. When the Memory IC (IC802) is replaced, some of the service adjustments should be readjusted to obtain the best performance. The necessary service adjustments are carried out by using the RC handset. Please set up the TV set with following steps [1] to [2].

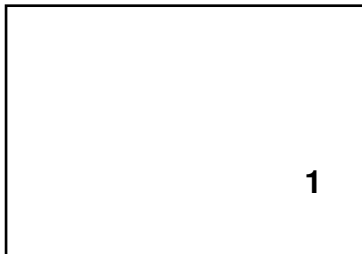
[1] Initializing Procedure

1. Put a new memory IC.
2. Turn on the TV set.
3. Press and hold the **TV/AV Selector button** on the TV set for more than 2 seconds. The following picture appears on the screen.



Press and hold for more than 2 seconds

4. Press the **PROGRAMME UP** on the TV set while the above On-Screen Display is still on the screen. The following picture appears on the screen.



This completes the initialization of memory IC.

Following shows the initialized contents of memory data by this procedure.

- | | |
|---------------------|----------------|
| - Plug & play | : No executed |
| - Inhibit data | : Cancelled |
| - Ch skip data | : Cancelled |
| - Sound volume data | : 10/63 steps. |
| - Volume Lock | : OFF |
| - Tuning Lock | : OFF |
| - Colour system | : AUTO |

Service Adjustments with Replacing Memory IC(IC802)

[2] Required Service Adjustments

Readjust the following service adjustments.

Adjustments	Service Mode No. & Item
RF AGC	Item 01, RF AGC
Horizontal centre	Item 02, H-PHA
Vertical size	Item 04, V-SIZ
Vertical-S correction	Item 05, V-SCO
Vertical linearity	Item 06, V-LIN
Gray scale	Item 14-17, 19-21

Further adjustment please refer to page 12 and 13.

Following table shows the initial values which have been stored in the CPU ROM, and items for the service adjustments.

Service mode adjustments table in CPU ROM

NO.	ITEM	DATA RANGE	INITIAL DATA	DESCRIPTION
01	RF AGC	00~63	30	RF AGC Adj.
02	H-PHA	00~31	5	H-Phase (H-Centering) Adj. (50Hz)
03	V-POS	00~63	40	V-Position (V-Centering) Adj. (50Hz) Fixed.
04	V-SIZ	00~127	69	V-Size Adj. (50Hz)
05	V-SCO	00~31	15	V-S Correction (50Hz)
06	V-LIN	00~31	19	V-Linearity Adj. (50Hz)
07	H-P60	-80~+70	+5	H-Centering Adj. (60Hz)
08	V-S60	-32~+31	0	V-Size Adj. (60Hz)
09	OSDHP	00~255	29	OSD H-Position Adj.
10	OSDC	00~127	45	OSD Contrast Adj.
11	V-SCP	00~07	7	Correction of the V-size accompanying brightness change.
12	H-SCP	00~07	7	Correction of the H-size accompanying brightness change.
13	SBIAS	00~127	105	Sub Bias Adj. (Do not change)
14	RBIAS	00~255	0	Red Bias Adj.
15	GBIAS	00~255	0	Green Bias Adj.
16	BBIAS	00~255	0	Blue Bias Adj.
17	RDRIV	00~127	64	Red Drive Adj.
18	GDRIV	00~15	8	Green Drive Adj.
19	BDRIV	00~127	64	Blue Drive Adj.
20	1-LINE APPEAR			
21	DRV			White Balance Adj.
22	B-YD	00~15	10	B-Y DC level Adj.. Colour compensation (PAL)
23	R-YD	00~15	10	R-Y DC level Adj.. Colour compensation (PAL)
24	B-YDN	-08~+07	0	NTSC B-Y DC level Adj. (Difference value over PAL.)
25	R-YDN	-08~+07	0	NTSC R-Y DC level Adj. (Difference value over PAL.)
26	SBDC	-08~+07	-8	SECAM B-Y DC level Adj. (Difference value over PAL.)
27	SRDC	-08~+07	-5	SECAM R-Y DC level Adj. (Difference value over PAL.)
28	G-YA	0,1	0	G-Y angle Adj. (The reproducibility of a colour is changed.)
29	RBGB	00~15	8	R-Y, B-Y Gain Balance Adj. (Do not change.)
30	RBAG	00~15	8	R-Y, B-Y Angle Adj. (Do not change.)
31	G-YAN	0,1	0	NTSC G-Y Angle Adj. (Difference value over PAL.)
32	RBGBN	-08~+07	0	NTSC R-Y, B-Y Gain Balance Adj. (Difference value over PAL.)
33	RBAGN	-08~+07	0	NTSC G-Y, B-Y Angle Adj. (Difference value over PAL.)
34	COGV	00~03	0	Coring Adj.
35	BLKS	00~03	3	Setting of Black stretch start.
36	BLKG	00~03	3	Setting of Black stretch gain.
37	BRTA	0,1	0	On and off of ABL.
38	BRST	0,1	0	Setting of ABL.
39	BRTH	00~07	0	Setting of ABL.
40	WPL	00~03	2	White peak limiter.
41	YGAM	00~03	0	Y Gamma setting.
42	PORW	0,1	0	Switching of Pre-shoot and Over shoot in AV mode.
43	PORS	00~03	2	Pre-shoot/Over shoot Adj. in AV mode.
44	RFCO	00~03	0	RF Coring Gain Adj.

Service Adjustments with Replacing Memory IC(IC802)

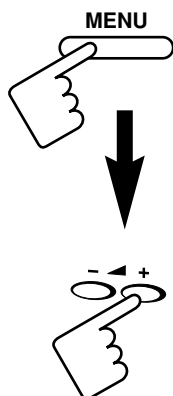
NO.	ITEM	DATA RANGE	INITIAL DATA	DESCRIPTION
45	PORWN	0,1	0	Switching of RF Pre-shoot and Over shoot.
46	PORSN	00~03	0	RF Pre-shoot/Over shoot Adj.
47	TINT	-16~+15	0	RF Tint Adj.
48	TINT 443	-16~+15	-12	NTSC 4.43 Tint Adj.
49	SHRF	-32~+31	0	RF Sharpness Adj.
50	TEXTC	-128~+127	0	OSD TEXT Contrast.
51	VOLUM	00~255	127	Volume Control Adj.
52	DEEM	0,1	0	De emphasis TC.
53	VIFSW	00~03	0	VIF System Switch.
54	SIFSW	00~03	1	SIF System Switch.
55	V-LVL	00~07	4	Video Level Adj.
56	FMLVL	00~31	16	FM Level Adj.
57	IF-TE	0,1	0	IF Test.
58	IF-T1	0,1	1	IF Test-1.
59	IF-T2	0,1	1	IF Test-2
60	IF-T3	00~255	136	IF Test-3
61	H-FRQ	00~63	34	Correction of Horizontal Frequency.
62	FBTS	0,1	0	Switching of H-blanking and Flyback Pulse.
63	COOP	00~07	7	Setting of Colour Killer Level.
64	HBLKL	00~07	7	H-Blanking Control. (Left)
65	HBLKR	00~07	3	H-Blanking Control. (Right)
66	AFCRF	0,1	0	RF AFC Gain & Gate Adj.
67	VSURF	0,1	0	RF V-Sync. Separation Adj.
68	CDMRF	00~07	0	RF V-Countdown Circuit Adj.
69	AFCAV	0,1	1	AV AFC Gain & Gate Adj.
70	VSUAV	0,1	0	AV V-Sync. Separation Adj.
71	CDMAV	00~07	0	AV V-Countdown Circuit Adj.
72	HLVDRF	0,1	1	Incorrect operation prevention at the time of a special signal (RF mode)
73	HLVDAV	0,1	1	Incorrect operation prevention at the time of a special signal (AV mode)
74	VCO-SW	0,1	0	C-VCO Adj. Switch.
75	VCO-ADJ	00~03	3	C-VCO Adj.
76	CROSS-BW	00~03	0	Pattern Output.
77	AVNCON	00~127	64	Contrast Adj. of the blue back in AV mode.
78	AVNBRI	00~127	64	Brightness Adj. of the blue back in AV mode.
79	POMT	00~255	25	Power Mute Time Adj.
80	CHMT	00~255	10	Channel Change Mute time Adj.
81	SYST	00~15	5	Selection of the number of times of a Colour system judgment.
82	S-STE	0,1	1	Stereo/Mono Option.
83	VOLTBL	00~03	0	Selection of the change characteristic of volume.
84	CHIP818	0,1	0	Option of 818(1:TINT Control reversal)/828(2:TINT through control) selection.
300	R00	00~255	112	CPU Debug Date.
301	R01	00~255	64	CPU Debug Date.
302	R02	00~255	0	CPU Debug Date.
303	R03	00~255	0	CPU Debug Date.
304	R04	00~255	1	CPU Debug Date.
305	R05	00~255	0	CPU Debug Date.
306	R06	00~255	0	CPU Debug Date.
307	R07	00~255	0	CPU Debug Date.
308	R08	00~255	33	CPU Debug Date.
309	R09	00~255	112	CPU Debug Date.
310	R10	00~255	68	CPU Debug Date.
311	R11	00~255	0	CPU Debug Date.
⋮	⋮	⋮	⋮	⋮
371	R71	00~255	0	CPU Debug Date.
372	R72	00~255	177	CPU Debug Date.

Notes: The initial value that the CPU writes down the CPU ROM data to the memory when replaced the memory IC. TV set may not operate correctly with this initial value. It is required to set up the fine adjustment for service adjustments described in the above.

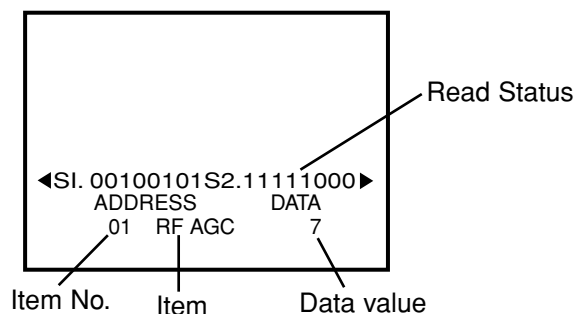
Service Adjustments with Replacing Memory IC(IC802)

[Entering to Service Mode]

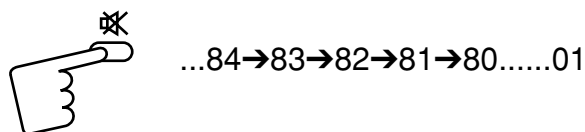
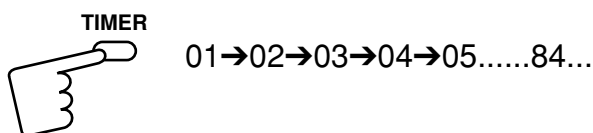
1. Press and hold the **MENU** button on the Remote Control and press the **VOLUME (+)** button on the TV set.
Following setting items appears on the screen.



Display for [RF AGC] RF AGC adjustment

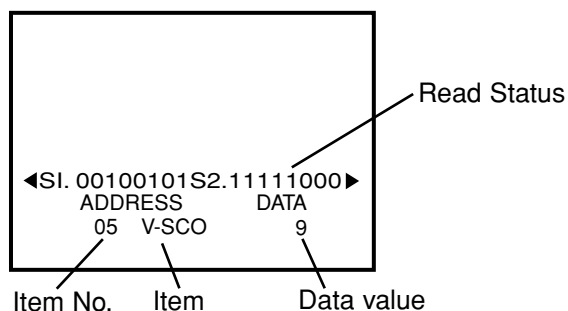


2. Select item by pressing the **TIMER** (Item No. UP) or **SOUND MUTE** (Item No. DOWN) button on the remote control handset.

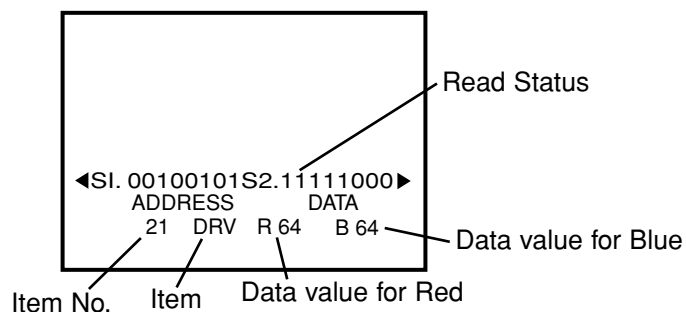


Example

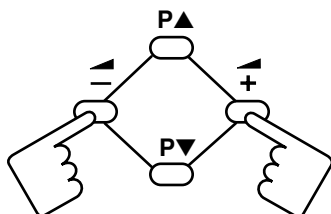
Display for [V-SCO] V-S Correction adjustment



Display for [DRV] White balance adjustment



3. Adjust data value by pressing the **VOLUME +** or **VOLUME -** button on the remote control handset.



To return to normal TV mode, press the **MENU** button on the TV set or the remote control handset.