

# TOSHIBA

FILE NO. 030-9512

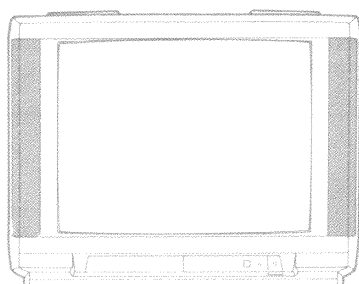
## SERVICE MANUAL

# COLOUR TELEVISION

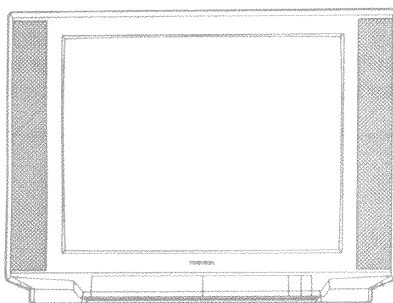
C5SR Chassis

***2555DB, 2855DB***  
***2552DB, 2852DB***

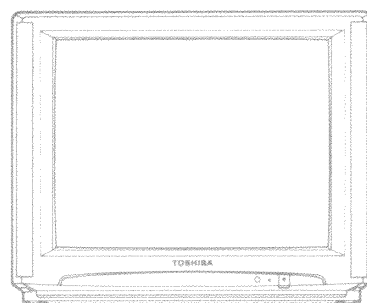
2555DB



2855DB



2552DB/2852DB



## **SAFETY INSTRUCTIONS**

**WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.**

### **X-RAY RADIATION PRECAUTION**

1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 26.5 kV at zero beam current (minimum brightness) operating at 240V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 29.0 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
2. The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
3. Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.  
For continued safety, replacement component should only be made after referring the Product Safety Notice below.

### **SAFETY PRECAUTION**

1. This receiver has a nominal working E.H.T. voltage of 24.5 kV. Extreme caution should be exercised when working on the receiver with the back removed.  
Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.  
When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap.  
The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.  
Do not hold the C.R.T. by the neck as this is a very dangerous practice.
2. It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
4. Replace blown fuses within the receiver with the fuse specified in the parts list.
5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
6. Keep wires away from high temperature components.

### **PRODUCT SAFETY NOTICE**

Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

**2555DB/2855DB**

SPECIFICATIONS		
<b>Input Power Rating:</b>	100 watts (2555DB), 105 watts (2855DB), AC 220-240 volts, 50 Hz	
<b>Aerial Input Impedance:</b>	75 ohm unbalanced type for UHF	
<b>Receiving Channels:</b>	PAL I Standard: UHF ..... channels 21 to 68	
<b>Intermediate Frequencies:</b>	Picture I-F carrier frequency ..... 39.5 MHz Sound I-F carrier frequency ..... 33.5 MHz Colour sub-carrier frequency ..... 35.07 MHz	
<b>Picture Tube:</b>	25 inches, A59EAK71X01, 590 mm (diagonal of viewable area), 110° deflection : (2555DB) 28 inches, A66EAK71X01, 660 mm (diagonal of viewable area), 110° deflection : (2855DB)	
<b>Sound Output:</b>	10.0 watts x 2	
<b>Speakers:</b>	160 mm x 40 mm oval 2 pcs (MAIN) 100 mm 2pcs (Hill Top) : (2555DB) 120 mm x 60 mm oval 2 pcs (MAIN) 100 mm 2pcs (Hill Top) : (2855DB)	
<b>Aux. Terminals:</b>	21 pin socket, S-VIDEO, VIDEO/AUDIO INPUT socket	
<b>Cabinet:</b>	Table type	(2555DB) (2855DB)
<b>Dimensions:</b>	Height .....	527.5 mm 571.3 mm
	Width .....	676 mm 760 mm
	Depth .....	440 mm 480 mm
<b>Mass:</b>	28.4 kg (2555DB), 37.7 kg (2855DB)	
<b>Features:</b>	Video input of PAL/3.58N/4.43N, TELETEXT reception, NICAM Digital stereo system, OFF-timer	

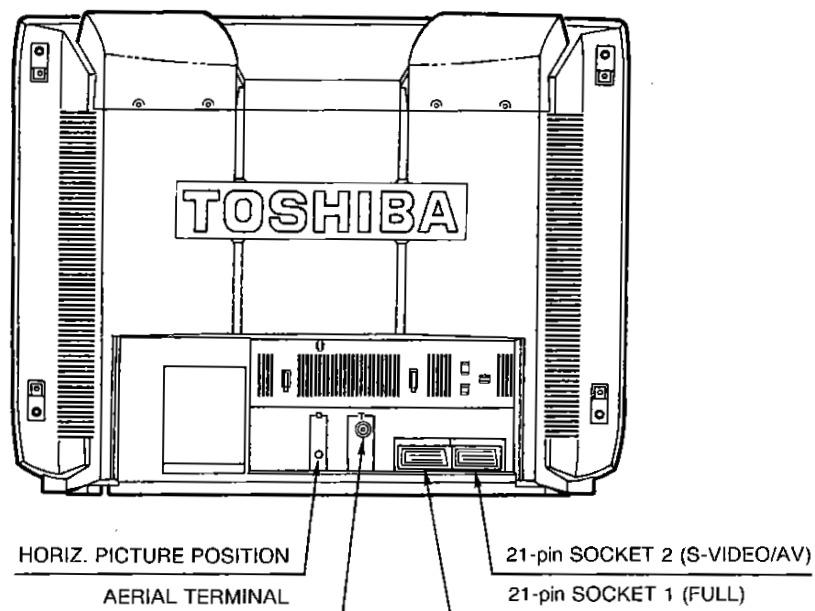
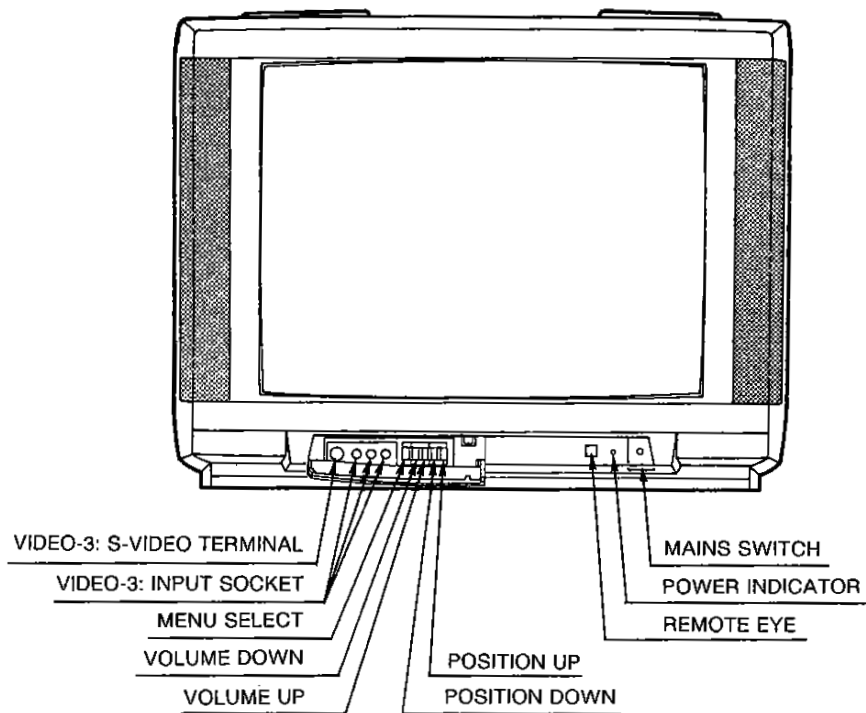
**2552DB/2852DB**

SPECIFICATIONS		
<b>Input Power Rating:</b>	100 watts (2552DB), 105 watts (2852DB), AC 220-240 volts, 50 Hz	
<b>Aerial Input Impedance:</b>	75 ohm unbalanced type for UHF	
<b>Receiving Channels:</b>	PAL I Standard: UHF ..... channels 21 to 68	
<b>Intermediate Frequencies:</b>	Picture I-F carrier frequency ..... 39.5 MHz Sound I-F carrier frequency ..... 33.5 MHz Colour sub-carrier frequency ..... 35.07 MHz	
<b>Picture Tube:</b>	25 inches, A59EAK71X01, 590 mm (diagonal of viewable area), 110° deflection : (2552DB) 28 inches, A66EAK71X01, 660 mm (diagonal of viewable area), 110° deflection : (2852DB)	
<b>Sound Output:</b>	10.0 watts x 2	
<b>Speakers:</b>	160 mm x 40 mm oval 2 pcs (MAIN) : (2552DB) 120 mm x 60 mm oval 2 pcs (MAIN) : (2852DB)	
<b>Aux. Terminals:</b>	21 pin socket, S-VIDEO, VIDEO/AUDIO INPUT socket	
<b>Cabinet:</b>	Table type	(2552DB) (2852DB)
<b>Dimensions:</b>	Height .....	516 mm 568.5 mm
	Width .....	640 mm 700 mm
	Depth .....	447 mm 474 mm
<b>Mass:</b>	29.6 kg (2552DB), 33.0 kg (2852DB)	
<b>Features:</b>	Video input of PAL/3.58N/4.43N, TELETEXT reception, NICAM Digital stereo system, OFF-timer	

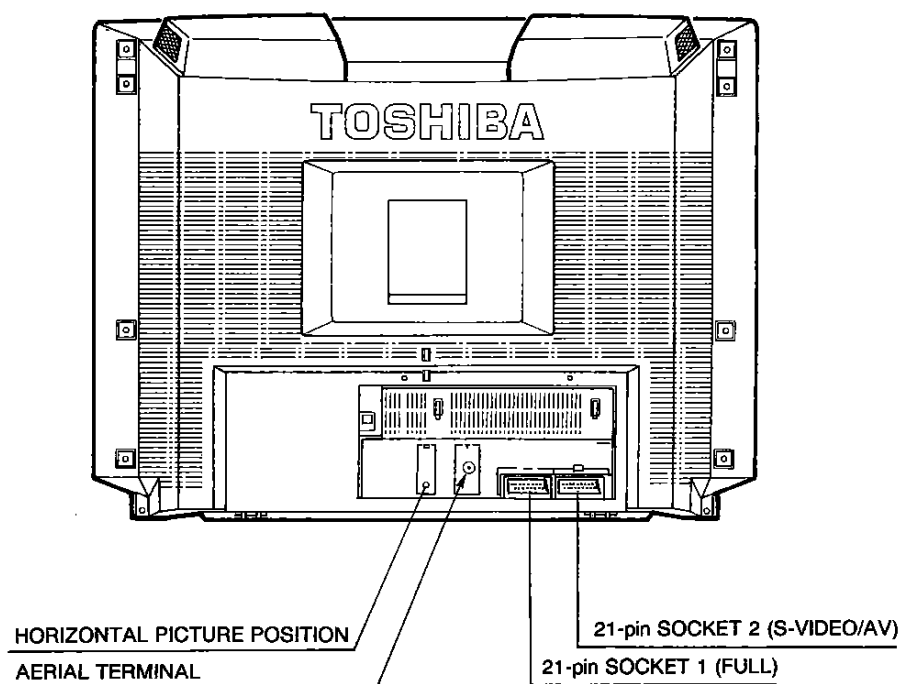
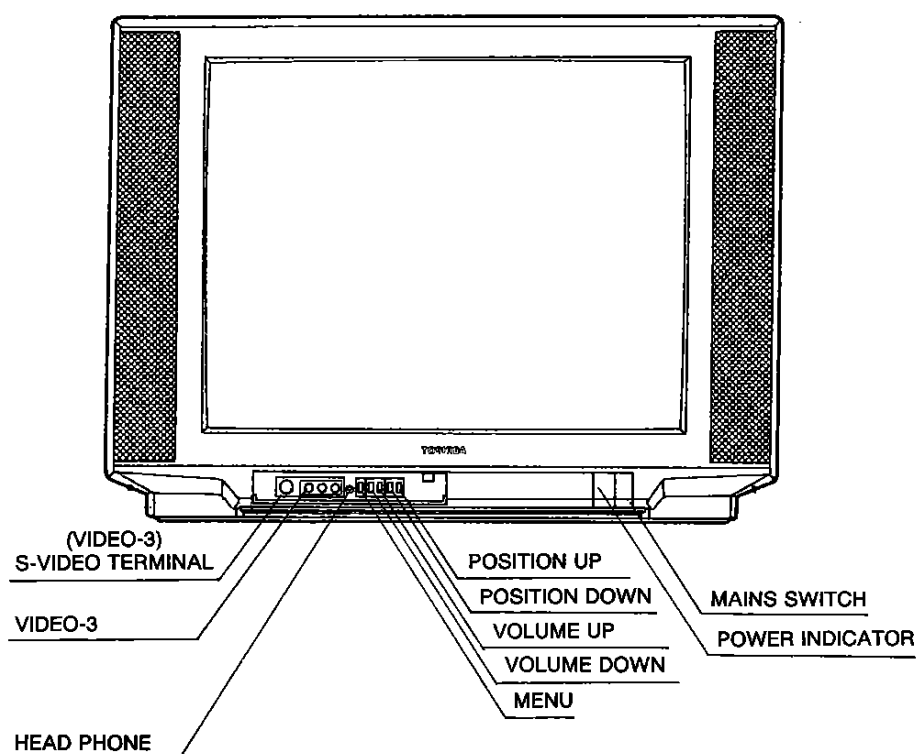
Specifications are subject to change without notice.



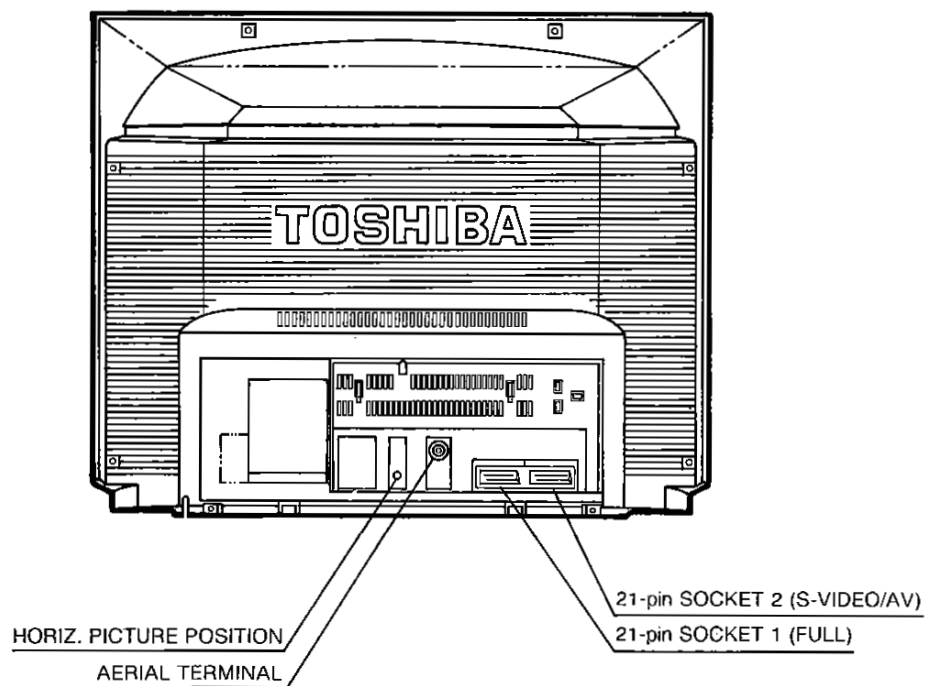
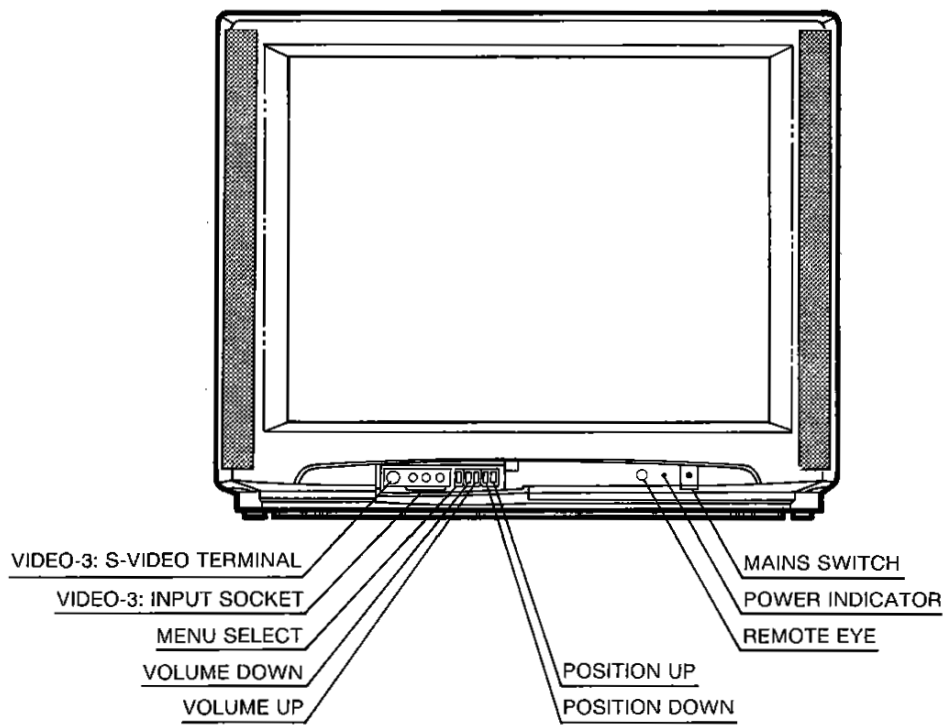
## FRONT CONTROLS AND REAR VIEWS (2555DB)



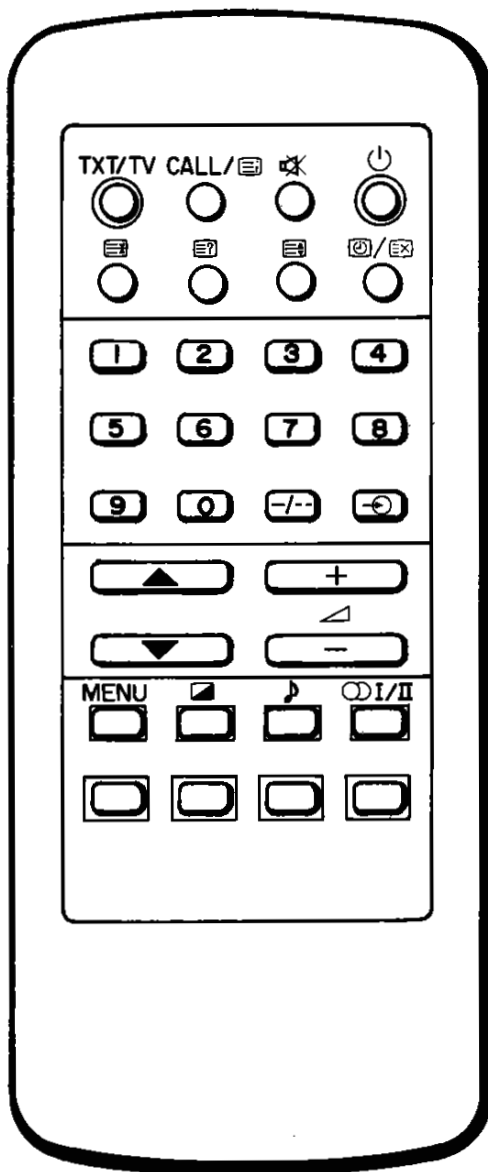
## FRONT CONTROLS AND REAR VIEWS (2855DB)



## FRONT CONTROLS AND REAR VIEWS (2552DB/2852DB)



## REMOTE HAND HELD UNIT

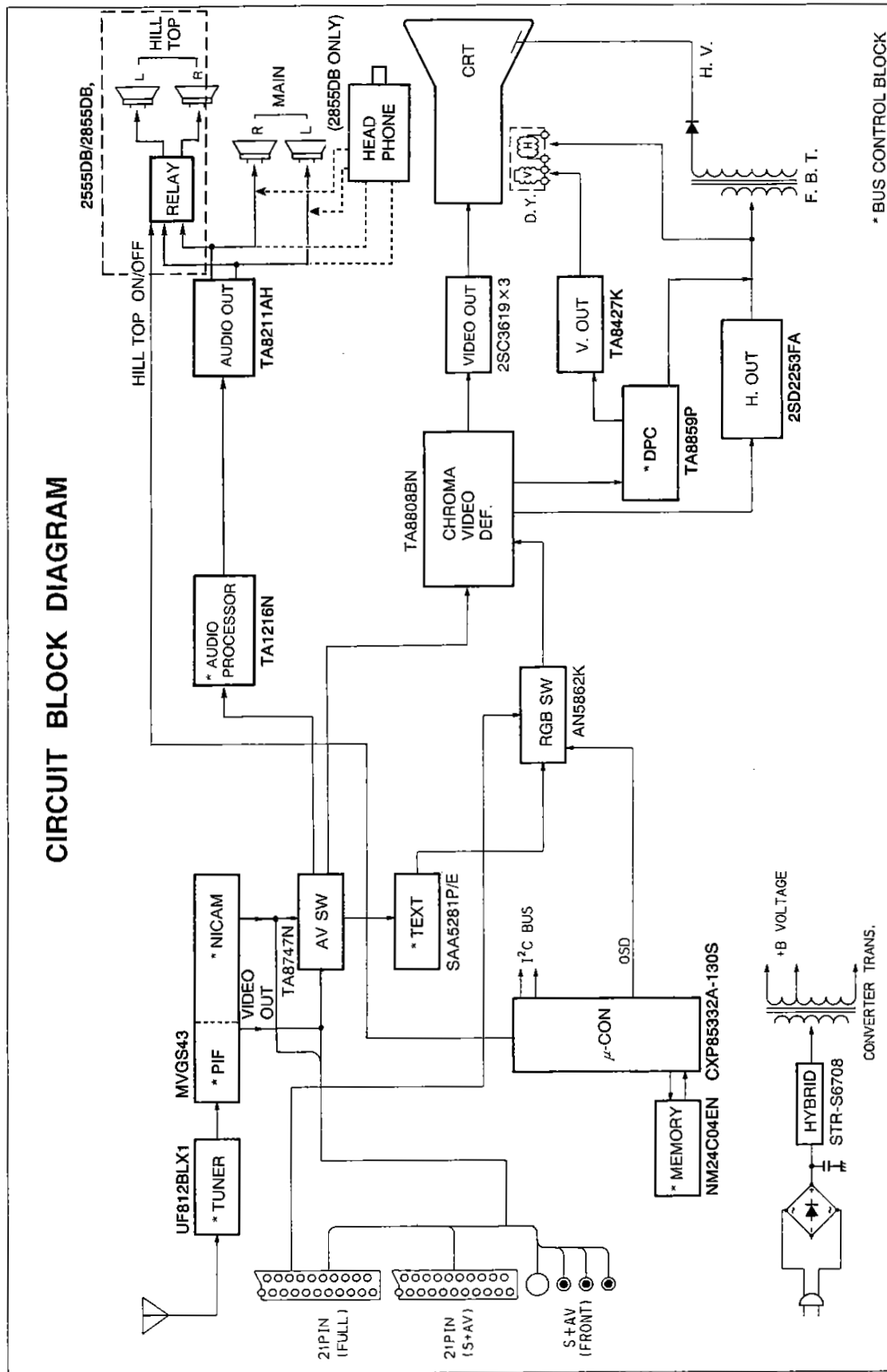


CT-9785

### KEY ASSIGNMENT

- ⏻..... ON/STAND-BY
- 🔇..... MUTE
- CALL ..... DISPLAY CALL
- MENU ..... TUNING & OTHER MENU
- 🖼️ ..... PICTURE MENU
- 🎵 ..... SOUND MENU
- ⏺ I/II..... <TV MODE> ..... STEREO BILINGUAL
- 1~9, 0 ... TEN KEY
- / - - ..... 1 or 2 place
- 📺..... VIDEO INPUT (EXTERNAL INPUT SOURCE SW.)
- 🔊 ..... VOLUME
- + ..... LEVEL PLUS (VOLUME, MENU)
- ..... LEVEL MINUS (VOLUME, MENU)
- ▲ ..... UP (POS., CH., TEXT PAGE)
- ▼ ..... DOWN (POS., CH., TEXT PAGE)
- TXT/TV..... TEXT, MIX, TV MODE SW.
- 🔒..... HOLD
- 📄..... <TEXT MODE> ..... REVEAL / CONCEAL
- 📄..... <TEXT MODE> ..... F-T-B (FULL, TOP, BOTTOM)
- 🕒/🗑️..... TIME DISPLAY (TV MODE)  
TEXT CLEAR (TEXT MODE)
- 📄..... INDEX, INITIAL
- FLOF COLOUR KEY (4 key used)  
Red/Green/Yellow/Blue

# CIRCUIT BLOCK DIAGRAM



\* BUS CONTROL BLOCK



**WARNING:** BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

## INSTALLATION AND SERVICE ADJUSTMENTS

### GENERAL INFORMATION

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and B/W pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials. Plug the power cord into a convenient 240 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or B/W picture.

### AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least 30 minutes in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source. If colour shading still persists, perform the COLOUR PURITY ADJUSTMENT and CONVERGENCE ADJUSTMENTS procedures.

### HIGH VOLTAGE CHECK

**CAUTION:** There is no HIGH VOLTAGE ADJUSTMENT on this chassis.

1. Connect an accurate high voltage meter to the second anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
3. High voltage will be measured below 29.0 kV.

### HORIZONTAL CENTRE ADJUSTMENT

1. Receive the UK PHILIPS pattern.
2. Set the contrast and colour to centre, and the brightness to centre.
3. Adjust H. CENTER USER Control (R452) so the pattern centre can be located at the screen centre.

### FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS. (T461) for well defined scanning lines in the centre area on the screen.

### SIF FM DET (LG04) ADJUSTMENT (NICAM BOARD)

1. Connect SIF generator through 0.01  $\mu$ F capacitor to pin DI of PD01 on NICAM Board.
2. Connect the oscilloscope to pin 9 of ICD03.
3. Set up the SIF generator as described below.
  - Sound carrier frequency : 6.0 MHz
  - Modulation frequency : 1000 Hz
  - Frequency deviation :  $\pm 15$  kHz
  - Signal level : 100 dB $\mu$  (50 ohm load)
4. Adjust LG04 for the maximum response of 1000 Hz det-out on scope.

### **PAL MATRIX ADJUSTMENT**

1. Tune in the colour programme of the Philips pattern.
2. Set the COLOUR Control to obtain the proper colour.
3. If the PAL MATRIX adjustment is incorrect, the Venetian Blind would appear in the colour bars area. This case needs the adjustment.
4. At the first, adjust DL PHASE ADJ. Coil (L551) to minimize the Venetian Blind.
5. Next adjust 1H-DL ADJ. VR (R551) to minimize the Blind.
6. If the Venetian Blind still remains, adjust 1H-DL PHASE ADJ. Coil (L551) to minimize the Blind again.
7. Repeat the item 5 and 6 procedures, adjust the R551 and L551 until the Blind does not appear.

### **CRT GREY SCALE ADJUSTMENT**

1. Tune in an active channel.
2. Set the SERVICE SW. (S202) in the "H. LINE" position.
3. Turn the SCREEN Control (on T461) fully counter-clockwise.
4. By rotating the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) to the mid position.
5. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the center.
6. Rotate the SCREEN Control gradually clockwise until the first line appears slightly on the screen. Set the SCREEN Control to this position.
7. Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE).  
The lines may look like white if the CUT OFF Controls are adjusted properly.
8. Set the SERVICE SW. (S202) in the "RECEIVE" position.
9. Set the CONTRAST and COLOUR Controls to minimum, and BRIGHTNESS Control to the maximum.
10. Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
11. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

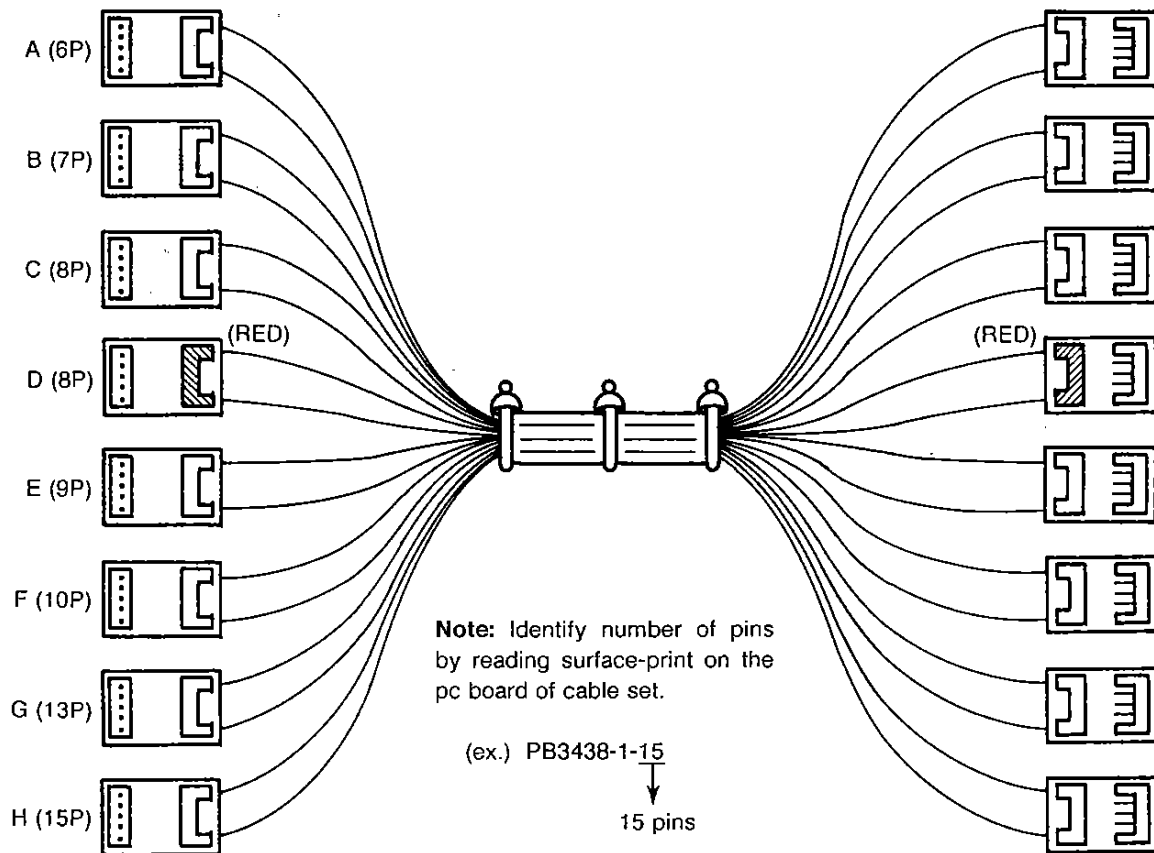
### **SUB-BRIGHTNESS ADJUSTMENT**

1. Tune in a colour programme.
2. Set the CONTRAST Control to the minimum and the BRIGHTNESS Control to the centre.
3. Set the COLOUR Control to the centre.
4. Set the SUB-BRIGHT. Control (R255) to the centre and leave the receiver for five minutes in this state.
5. Watching the picture well, adjust the SUB-BRIGHT. Control in the position where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
6. Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
7. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to the minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT. Control again for the acceptable picture.

## EXTENSION CABLE SET

1. Extension Cable Set is available for servicing modules of C2DB chassis.  
For 2545DB chassis, however, this cable is used for CHROMA Board.
2. Identify number of pins by reading surface-print on the pc board of cable set.

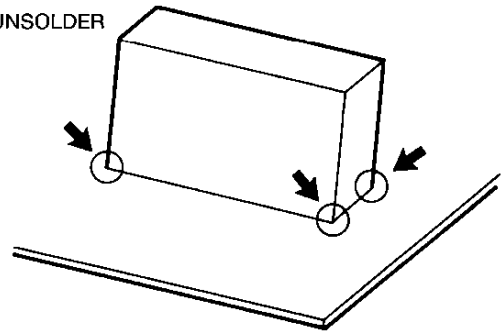
Part No.	Description
23305270	Extension Cable Set



## TO USE THE CABLE SET

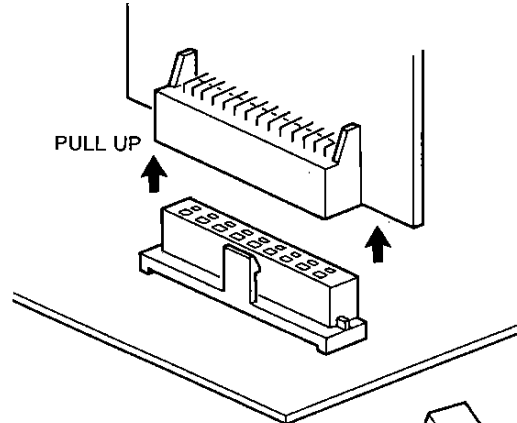
1. Unsolder corners on shielding case of module, which are marked with arrow in the figure.

UNSOLDER



2. Remove shielding case, and pull up module to disconnect.

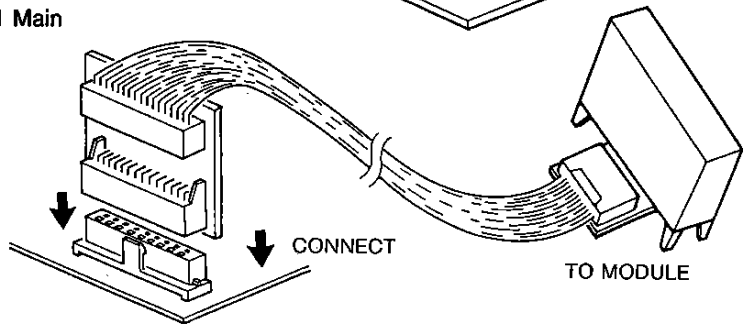
PULL UP



3. Connect Extension Cable Set to module and Main board.

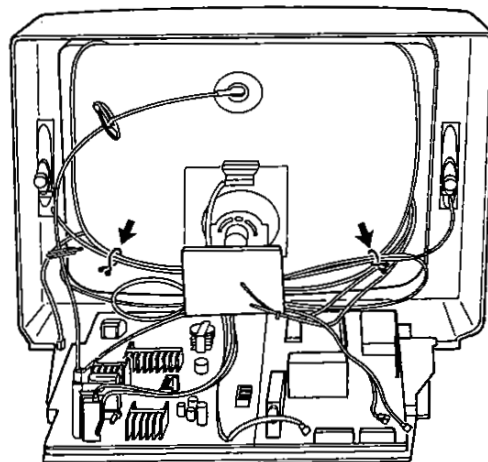
CONNECT

TO MODULE

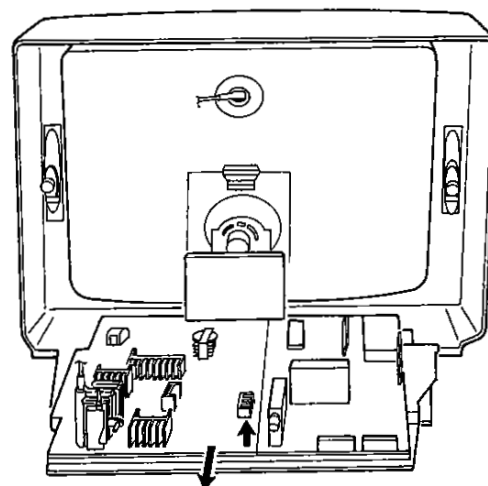


## HOW TO MAKE THE CHASSIS STAND FOR REPAIR OF THE 2555DB 2855DB

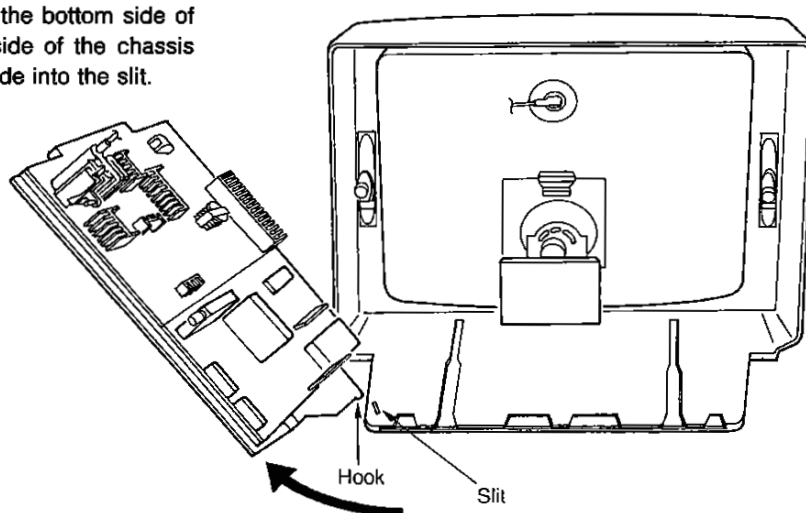
1. Disconnect the lead wires for the speaker fixed to the degausser coil with three omega clips.



2. Lifting up slightly, pull out the chassis from the front mask.



3. There is a slit at the left front of the bottom side of the front mask. Lift up the left side of the chassis and insert the hook at the right side into the slit.

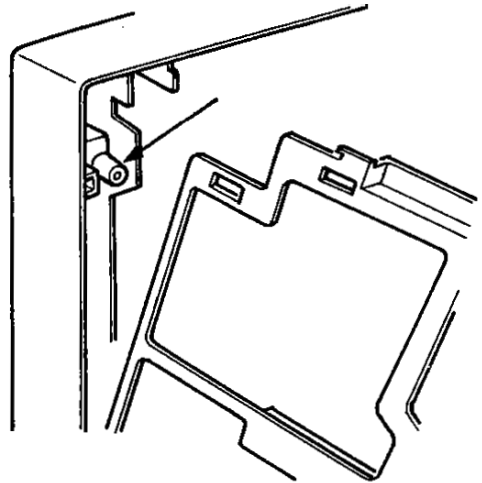


4. 2555DB:

To retain the chassis, use the screw hole (boss) at the upper left for back cover positioning.

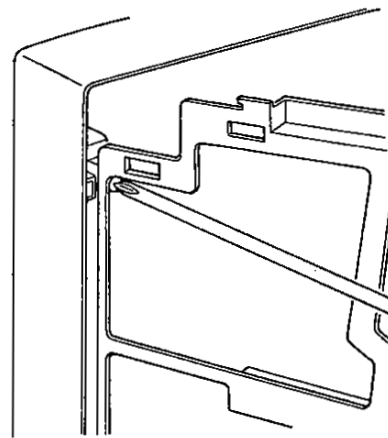
2855DB:

To retain the chassis, use the upper left boss (highest boss) which is marked with No. 29.

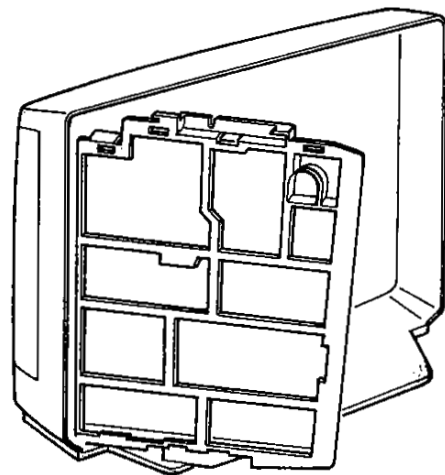


5. Fix it with screws for back cover fixing.

Upper hole of the chassis frame for 2555, 2855 and the lower hole of the chassis frame for 2155 series.

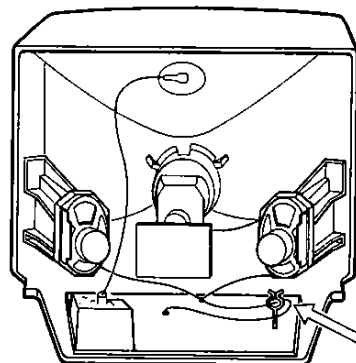


6. After repair works, restore the unit by reversing the above steps.

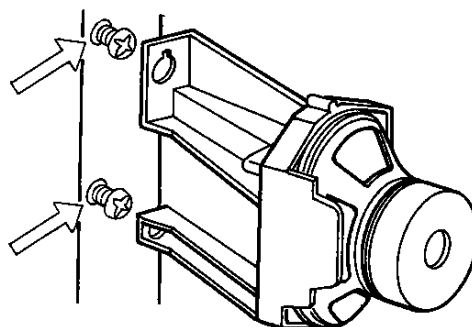


## HOW TO MAKE THE CHASSIS STAND FOR REPAIR OF THE **2852DB** **2552DB**

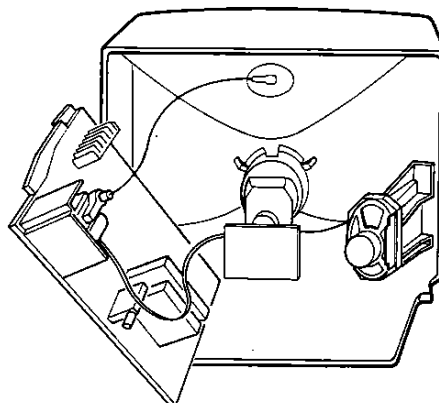
1. Remove the wire set for the loud speaker from the holder.



2. Remove the horn speaker unit (unscrew the fixing screws).

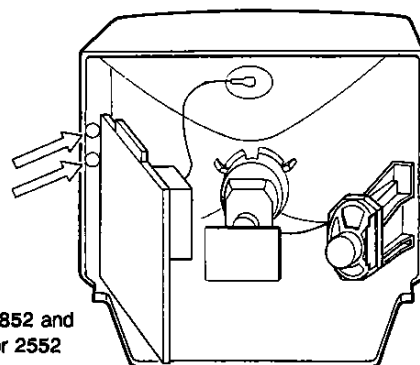


3. Lift up the chassis in such manner that it stands against the inner side surface of the front mask.



4. Using the screws which have been removed when disconnecting the front mask and the back cover, screw the chassis to the side of the front mask.


5. To restore, perform the above steps in opposite order.

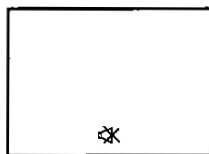



Upper hole for 2852 and  
the lower hole for 2552  
series.

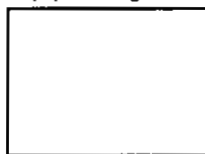
## SERVICE MODE GENERAL INSTRUCTIONS


### 1. ENTERING TO SERVICE MODE

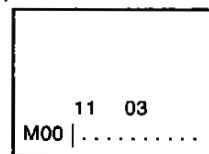
1) Press  button once on Remote Control.



2) Press  button again to keep pressing.





3) Keep pressing the  button, press MENU button on TV set.





(Service mode display)

### 2. SELECTING THE ADJUSTING ITEMS

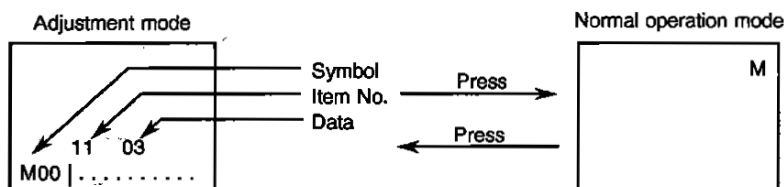
Every pressing of CHANNEL  button changes the adjustment items in the following order. ( button for reverse order.)

### 3. ADJUSTING THE DATA

Pressing of VOLUME  or  button will change the value of data in the range from 00 to FF. The variable range depends on the adjusting item.

### 4. NORMAL OPERATION ON THE SERVICE MODE

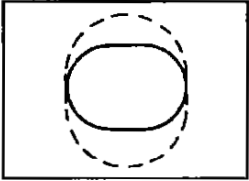
Press MENU button on TV.



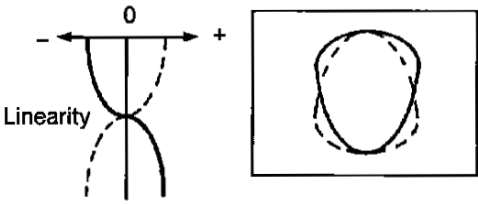
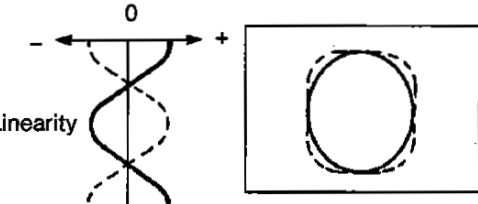
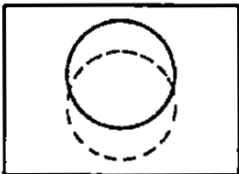
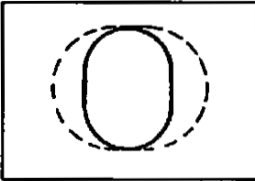
### 5. EXIT FROM SERVICE MODE

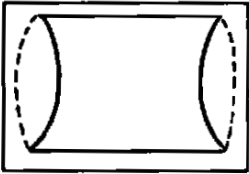
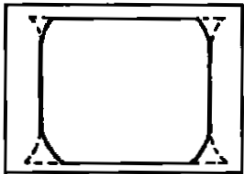
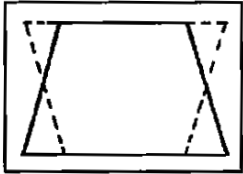

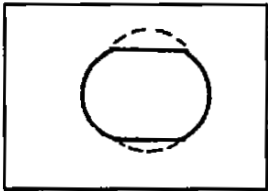
Press POWER button on the remote control to turn off the TV once.

### SUB DATA ADDITIONAL DESCRIPTION

Symbol	Description
HIT	V amplitude adjustment. 



Symbol	Description
LIN	<p>V linearity correction 1.</p>  <p>Linearity balance between top and bottom screen.</p>
VSC	<p>V linearity correction 2.</p>  <p>Linearity balance between top/bottom and center.</p>
VPC	<p>V picture position adjustment.</p> 
VCP	<p>Setting of amount of V amplitude correction against variation of screen brightness.</p>
WID	<p>H amplitude adjustment.</p> 

Symbol	Description
DPC	<p>H pin-cushion distortion correction.</p> 
CNR	<p>H pin-cushion distortion correction at four corners.</p> 
KEY	<p>Pedestal distortion correction.</p> 
HCP	<p>Setting of amount of H amplitude correction against variation of screen brightness.</p>
VMC	<p>V linearity correction. Linearity balance at 1/4, 3/4 areas from top.</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>Linearity</p>  </div>  </div>

## ADJUSTMENT PROCEDURE

Adjustment parts or Bus control item	Input point/ Output point	Adjustment signal	Adjustment conditions and procedures
: Horizontal amplitude adjustment (WID) : Pin distortion compensation amount adjustment (DPC) : Keystone distortion compensation amount adjustment (KEY)	Visual check of picture (Bus control)	WG Philips pattern  Do not use the Philips pattern of FRANCESECAM.	1. Conditions: After V. HEIGHT, VERT POSITION and H. CENT have been adjusted, set the controllers as follows: Contrast: Max Brightness: Center Color: Center  2. Adjustment procedure a. Adjust the horizontal amplitude by the sub address WID. Adjust so that the left and right white flags of Philips pattern disappear at the very limits. b. Make the left and right vertical bars straight by the sub address DPC. c. Compensate the key distortion by the sub address KEY. d. Again, adjust the sub address WID.
: HEIGHT (HIT) : VERT. POSITION	Visual check of picture (Bus control)	WG Philips pattern  Do not use the Philips pattern of FRANCESECAM.	1. Conditions: Contrast: Max Brightness: Center Color: Center  2. Adjustment procedure a. By the bus address VPS, adjust V. position so that the circle of Philips pattern comes to the vertical center. b. Adjust HIT so that the upper and lower flags of Philips pattern disappear at the very limits.

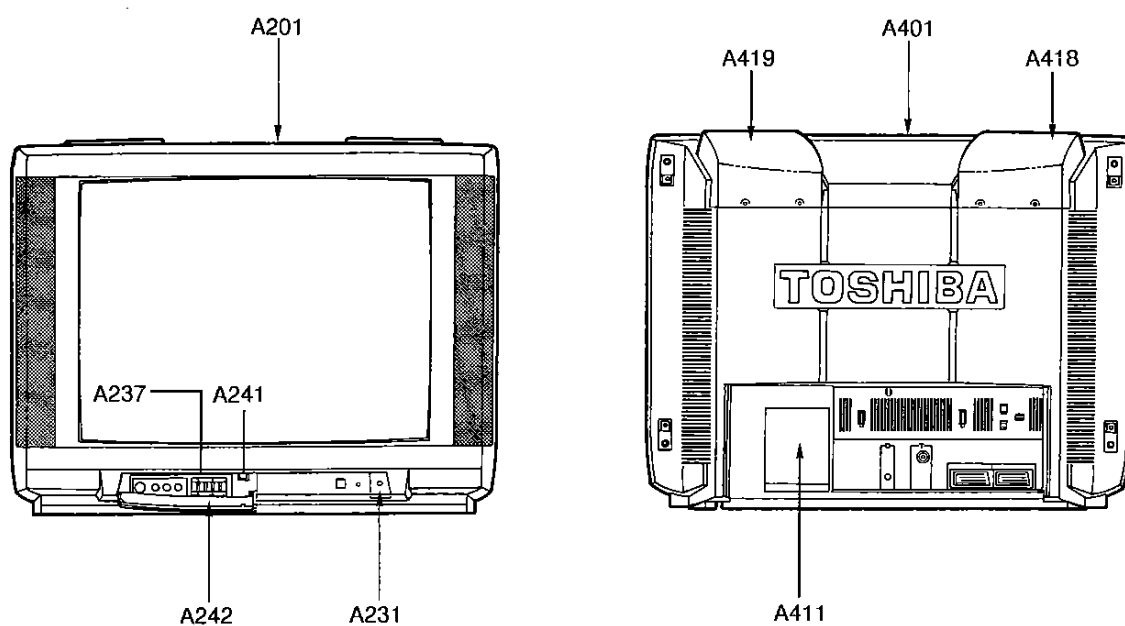
**ROM DATA LIST FOR IIC BUS CONTROL**

(Reference Value)

Symbol	Comment	Data			
		2555DB	2855DB	2552DB	2852DB
M00	MODE 0	51	51	51	51
M01	MODE 1	33	33	33	33
M01	MODE 1 USE ALPS TUNER	01	01	01	01
M02	MODE 2	03	03	02	02
M03	MODE 3	17	17	49	49
HIT	HEIGHT	* 30	* 30	* 30	* 30
LIN	V. LINEARITY	32	32	32	32
VSC	V. S-CORRECTION	32	32	32	32
VPS	V. POSITION	* 07	* 07	* 07	* 07
VCP	V. COMPENSATION	30	30	30	30
WID	H. WIDTH	* 22	* 26	* 22	* 26
DPC	DPC	* 26	* 24	* 26	* 24
CNR	DPC CORNER	P44V32	32	P44V32	32
KEY	KEYSTONE	* 09	* 09	* 09	* 09
HCP	H. COMPENSATION	10	10	10	10
VMC	V. M-CORRECTION	52	41	52	41
SHI	16:9 SUB HEIGHT	00	00	00	00
SLI	16:9 SUB V. LINEARITY	32	32	32	32
SVS	16:9 SUB V. S-CORRECTION	17	17	17	17
SDP	16:9 SUB DPC	P18V21	P17V21	P18V21	P17V21
SCN	16:9 SUB CORNER	30	30	30	30
WCT	WOOFER FC SET	12	08	12	12
BAC	BASS CENTER	40	34	50	50
TRC	TREBLE CENTER	48	52	44	44
BAX	BASS MAX	79	79	79	79
WON	BAZOOKA AUTO	05	30	06	06
WOF	BAZOOKA OFF	20	47	25	25
BAE	BASS UP	01	03	01	01
TRE	TREBLE UP	12	17	10	10
VOE	VOL UP	02	02	00	00
WFL	WOOFER LEVEL	100	100	100	100
EMX	NICAM OFF LEVEL (PHIL)	252	252	252	252
EMN	NICAM ON LEVEL (PHIL)	100	100	100	100
FMA	FM INPUT ATT (PHIL)	00	00	00	00
STS	STEREO SEPARATION	—	—	—	—

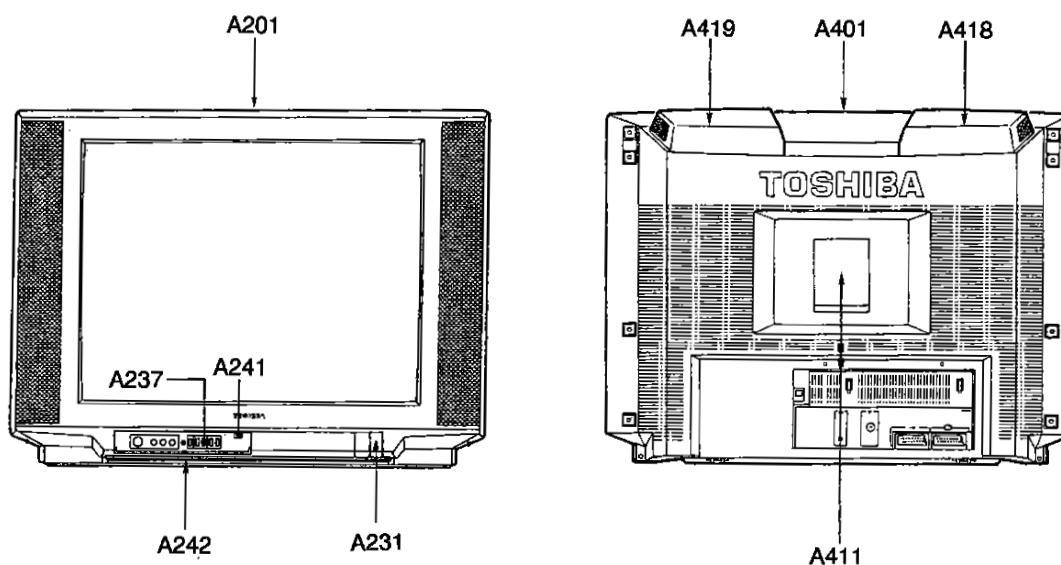
\* Mark items should be adjusted.

## CABINET REPLACEMENT PARTS LIST (2555DB)



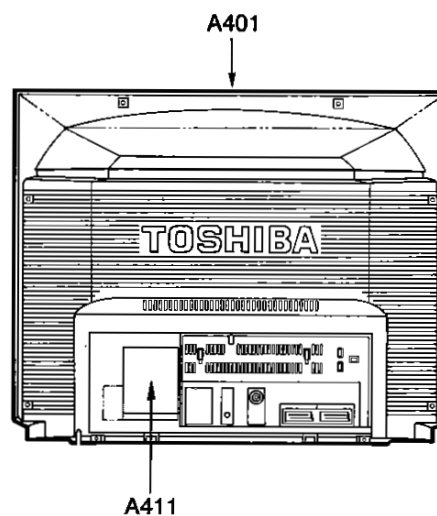
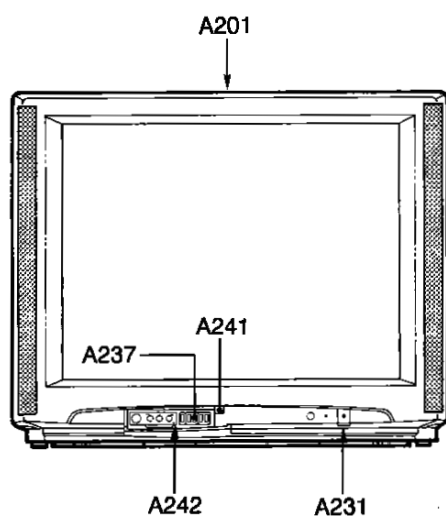
Location No.	Part No.	Description
A201	23519039	Front Cover
A231	23443868	Button, POWER
A237	23443867	Button, 5-Key
A241	70368125	Push Catch for Door
A242	23425970	Door
△A401	23425938	Back Cover
A411	23569517	Label, Model No. (2555DB)
A418	23792579	Top Cover Assembly (Left)
A419	23792580	Top Cover Assembly (Right)

## CABINET REPLACEMENT PARTS LIST (2855DB)



Location No.	Part No.	Description
A201	23410567	Front Cover
A231	23443960	Button, POWER
A237	23443961	Button, 5-Key
A241	70368125	Push Catch for Door
A242	23426384	Door
△ A401	23426383	Back Cover
A411	23569513	Label, Model No. (2855DB)
A418	23426540	Top Cover Assembly (Left)
A419	23426541	Top Cover Assembly (Right)

## CABINET REPLACEMENT PARTS LIST (2552DB/2852DB)



### 2552DB

Location No.	Part No.	Description
A201	23410755	Front Cover
A231	23443775	Button, POWER
A237	23443777	Button, 5-Key
A241	70368125	Push Catch for Door
A242	23425536	Door
△ A401	23425494	Back Cover
A411	23569613	Label, Model No. (2552DB)

### 2852DB

Location No.	Part No.	Description
A201	23410460	Front Cover
A231	23443776	Button, POWER
A237	23443777	Button, 5-Key
A241	70368125	Push Catch for Door
A242	23425524	Door
△ A401	23425487	Back Cover
A411	23569593	Label, Model No. (2852DB)

## CHASSIS REPLACEMENT PARTS LIST

**WARNING:** BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

**CAUTION:** The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

**NOTICE:**

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with \* mark is no longer available after the end of the production.

**ABBREVIATIONS:**

Capacitors.....	CD : Ceramic Disk	PF : Plastic Film	EL : Electrolytic
Resistors.....	CF : Carbon Film	CC : Carbon Composition	MF : Metal Film
	OMF : Oxide Metal Film	VR : Variable Resistor	FR : Fusible Resistor

(All CD and PF capacitors are  $\pm 5\%$ , 50V and all resistors,  $\pm 5\%$ , 1/6W unless otherwise noted.)

Location No.	Part No.	Description
<b>CAPACITORS</b>		
C100	24794221	EL, 220 $\mu$ F, $\pm 20\%$ , 16V
C101	24794221	EL, 220 $\mu$ F, $\pm 20\%$ , 16V
C182	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C183	24797229	EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V
C185	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C188	24797100	EL, 10 $\mu$ F, $\pm 20\%$ , 50V
C189	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C190	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C193	24797100	EL, 10 $\mu$ F, $\pm 20\%$ , 50V
C202	24795101	EL, 100 $\mu$ F, $\pm 20\%$ , 25V
C203	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C204	24797220	EL, 22 $\mu$ F, $\pm 20\%$ , 50V
C205	24797478	EL, 0.47 $\mu$ F, $\pm 20\%$ , 50V
C206	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C207	24794100	EL, 10 $\mu$ F, $\pm 20\%$ , 16V
C208	24436220	CD, 22pF
C209	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C210	24797100	EL, 10 $\mu$ F, $\pm 20\%$ , 50V
C211	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C212	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C213	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C214	24436470	CD, 47pF (2555DB)
C214	24436220	CD, 22pF (2855DB)
C216	24436680	CD, 68pF (2555DB/2855DB)
C240	24538474	PF, 0.47 $\mu$ F
C301	24085944	EL, 2.2 $\mu$ F, $\pm 20\%$ , 50V, Non-Polar
C302	24212152	CD, 1500pF, $\pm 10\%$
C303	24214221	CD, 220pF, $\pm 10\%$ , 500V (2855DB/2552DB)
C304	24590102	PF, 1000pF
C305	24617915	EL, 1 $\mu$ F, $\pm 10\%$ , 50V (2555DB)
C305	24617912	EL, 2.2 $\mu$ F, $\pm 10\%$ , 50V (2855DB)
C306	24667472	EL, 4700 $\mu$ F, $\pm 20\%$ , 25V
C307	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C308	24693473	PF, 0.047 $\mu$ F, 100V (2555DB)
C308	24693333	PF, 0.033 $\mu$ F, 100V (2855DB)
C310	24765102	EL, 1000 $\mu$ F, $\pm 20\%$ , 35V
C313	24082057	PF, 0.22 $\mu$ F, 100V
C314	24591563	PF, 0.056 $\mu$ F

Location No.	Part No.	Description
C315	24590104	PF, 0.1 $\mu$ F
C316	24538474	PF, 0.47 $\mu$ F
C317	24617926	EL, 220 $\mu$ F, $\pm 20\%$ , 16V
C318	24668221	EL, 220 $\mu$ F, $\pm 20\%$ , 35V
C319	24212102	CD, 1000pF, $\pm 10\%$
C321	24591183	PF, 0.018 $\mu$ F
C322	24617912	EL, 2.2 $\mu$ F, $\pm 10\%$ , 50V
C323	24538224	PF, 0.22 $\mu$ F (2555DB)
C323	23590683	PF, 0.068 $\mu$ F (2552DB)
C324	24590683	PF, 0.068 $\mu$ F (2555DB)
C324	23538224	PF, 0.22 $\mu$ F (2552DB)
C325	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C326	24538474	PF, 0.47 $\mu$ F
C341	24794101	EL, 100 $\mu$ F, $\pm 20\%$ , 16V
C378	24590104	PF, 0.1 $\mu$ F
C379	24232103	CD, 0.01 $\mu$ F, +80%, -20% (2555DB/2855DB)
C380	24212102	CD, 1000pF, $\pm 10\%$
C401	24617920	EL, 120 $\mu$ F, $\pm 20\%$ , 25V
C402	24353241	CD, 240pF (2555DB)
C402	24353271	CD, 270pF (2552DB)
C403	24797339	EL, 3.3 $\mu$ F, $\pm 20\%$ , 50V
C405	24590183	PF, 0.018 $\mu$ F
C406	24590183	PF, 0.018 $\mu$ F
C407	24590273	PF, 0.027 $\mu$ F
C408	24794221	EL, 220 $\mu$ F, $\pm 20\%$ , 16V
C409	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C410	24082261	PF, 5600pF, 100V
C412	24590182	PF, 1800pF
C413	24214391	CD, 390pF, $\pm 10\%$ , 500V
C414	24212471	CD, 470pF, $\pm 10\%$
C416	24709100	EL, 10 $\mu$ F, $\pm 20\%$ , 200V
C417	24214821	CD, 820pF, $\pm 10\%$ , 500V
C421	24082698	PF, 0.47 $\mu$ F, 250V
C422	24829473	PF, 0.047 $\mu$ F, 400V
C423	24082698	PF, 0.47 $\mu$ F, 250V
C430	24538474	PF, 0.47 $\mu$ F
⚠ C440	24082581	PF, 7000pF, $\pm 3\%$ , 1500V
C441	24214221	CD, 220pF, $\pm 10\%$ , 500V
C443	24214221	CD, 220pF, $\pm 10\%$ , 500V
C444	24082609	PF, 5100pF, $\pm 3\%$ , 1800V



Location No.	Part No.	Description
C445	24095903	PF, 0.056 $\mu$ F, $\pm$ 10%, 250V
C446	24095887	PF, 0.01 $\mu$ F, $\pm$ 3%, 630V
C447	24700479	EL, 4.7 $\mu$ F, $\pm$ 20%, 250V
C448	24640962	EL, 33 $\mu$ F, $\pm$ 20%, 200V
C449	24667102	EL, 1000 $\mu$ F, $\pm$ 20%, 25V
C450	24794471	EL, 470 $\mu$ F, $\pm$ 20%, 16V
△C463	24212222	CD, 2200pF, $\pm$ 10%
C464	24082721	PF, 1.5 $\mu$ F, 250V
C466	24082694	PF, 0.33 $\mu$ F, 250V
C470	24794220	EL, 22 $\mu$ F, $\pm$ 20%, 16V
C471	24538474	PF, 0.47 $\mu$ F
C473	24538474	PF, 0.47 $\mu$ F
C501	24794331	EL, 330 $\mu$ F, $\pm$ 20%, 16V
C502	24474181	CD, 180pF, $\pm$ 10%
C503	24436181	CD, 180pF
C504	24353150	CD, 15pF (2555DB/2855DB)
C505	24590273	PF, 0.027 $\mu$ F
C507	24590103	PF, 0.01 $\mu$ F
C508	24085944	EL, 2.2 $\mu$ F, $\pm$ 20%, 50V, Non-Polar
C509	24353330	CD, 33pF
C510	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C511	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C512	24353200	CD, 20pF
C512	24353220	CD, 22pF (2552DB)
C513	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C515	24797220	EL, 22 $\mu$ F, $\pm$ 20%, 50V
C516	24590104	PF, 0.1 $\mu$ F
C517	24590104	PF, 0.1 $\mu$ F
C518	24232103	CD, 0.01 $\mu$ F, +80%, -20%
C520	24797478	EL, 0.47 $\mu$ F, $\pm$ 20%, 50V
C521	24206478	EL, 0.47 $\mu$ F, 50V
C522	24206478	EL, 0.47 $\mu$ F, 50V
C523	24206478	EL, 0.47 $\mu$ F, 50V
C524	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
C524	24232103	CD, 0.01 $\mu$ F, +80%, -20% (2552DB/2852DB)
C525	24436820	CD, 82pF
C526	24436820	CD, 82pF
C527	24436820	CD, 82pF
C529	24353300	CD, 30pF (2555DB/2855DB)
C531	24436561	CD, 560pF
C532	24436561	CD, 560pF
C534	24794471	EL, 470 $\mu$ F, $\pm$ 20%, 16V
C536	24797479	EL, 4.7 $\mu$ F, $\pm$ 20%, 50V
C626	24797470	EL, 47 $\mu$ F, $\pm$ 20%, 50V
C633	24538124	PF, 0.12 $\mu$ F
C634	24538124	PF, 0.12 $\mu$ F
C636	24797229	EL, 2.2 $\mu$ F, $\pm$ 20%, 50V
C637	24667470	EL, 47 $\mu$ F, $\pm$ 20%, 25V
C638	24667470	EL, 47 $\mu$ F, $\pm$ 20%, 25V
C639	24796101	EL, 100 $\mu$ F, $\pm$ 20%, 35V
C641	24795470	EL, 47 $\mu$ F, $\pm$ 20%, 25V
C642	24797229	EL, 2.2 $\mu$ F, $\pm$ 20%, 50V
C643	24797479	EL, 4.7 $\mu$ F, $\pm$ 20%, 50V (2555DB)
C643	24797478	EL, 0.47 $\mu$ F, $\pm$ 20%, 50V (2855DB)
C644	24667102	EL, 1000 $\mu$ F, $\pm$ 20%, 25V
C646	24667102	EL, 1000 $\mu$ F, $\pm$ 20%, 25V
C660	24797478	EL, 0.47 $\mu$ F, $\pm$ 20%, 50V
C673	24797478	EL, 0.47 $\mu$ F, $\pm$ 20%, 50V (2555DB/2855DB)
C674	24590102	PF, 1000pF
C677	24590102	PF, 1000pF

Location No.	Part No.	Description
C684	24232103	CD, 0.01 $\mu$ F, +80%, -20% (2855DB)
C685	24232103	CD, 0.01 $\mu$ F, +80%, -20% (2855DB)
△C801	24082318	PF, 0.1 $\mu$ F, $\pm$ 20%, AC250V
△C802	24094656	CD, 2200pF, $\pm$ 20%, AC400V
△C803	24094656	CD, 2200pF, $\pm$ 20%, AC400V
△C804	24082318	PF, 0.1 $\mu$ F, $\pm$ 20%, AC250V
C807	24092281	CD, 4700pF, $\pm$ 20%, AC250V
C808	24092281	CD, 4700pF, $\pm$ 20%, AC250V
C809	24086037	EL, 270 $\mu$ F, $\pm$ 20%, 400V
C810	24667331	EL, 330 $\mu$ F, $\pm$ 20%, 25V
C811	24214471	CD, 470pF, $\pm$ 10%, 500V
C812	24676220	EL, 22 $\mu$ F, $\pm$ 20%, 100V
C813	24590222	PF, 2200pF
C814	24214471	CD, 470pF, $\pm$ 10%, 500V
C815	24095931	PF, 2200pF, 1250V
C816	24795470	EL, 47 $\mu$ F, $\pm$ 20%, 25V
C817	24092341	CD, 470pF, $\pm$ 10%, 2kV
C818	24214471	CD, 470pF, $\pm$ 10%, 500V
C819	24797470	EL, 47 $\mu$ F, $\pm$ 20%, 50V
C820	24794470	EL, 47 $\mu$ F, $\pm$ 20%, 16V
C827	24794471	EL, 470 $\mu$ F, $\pm$ 20%, 16V
C828	24212101	CD, 100pF, $\pm$ 10%
C829	24796222	EL, 2200 $\mu$ F, $\pm$ 20%, 35V
C830	24092337	CD, 220pF, $\pm$ 10%, 2kV
C831	24086953	EL, 220 $\mu$ F, $\pm$ 20%, 160V
C833	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
C835	24797479	EL, 4.7 $\mu$ F, $\pm$ 20%, 50V
C836	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
C837	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
C840	24214471	CD, 470pF, $\pm$ 10%, 500V
C846	24590104	PF, 0.1 $\mu$ F
C849	24214471	CD, 470pF, $\pm$ 10%, 500V
C892	24794470	EL, 47 $\mu$ F, $\pm$ 20%, 16V
C901	24700100	EL, 10 $\mu$ F, $\pm$ 20%, 250V
C902	24095931	PF, 2200pF, 1250V
CA01	24474101	CD, 100pF, $\pm$ 10%
CA02	24474101	CD, 100pF, $\pm$ 10%
CA03	24474101	CD, 100pF, $\pm$ 10%
CA10	24212102	CD, 1000pF, $\pm$ 10%
CA11	24212102	CD, 1000pF, $\pm$ 10%
CA12	24794471	EL, 470 $\mu$ F, $\pm$ 20%, 16V
CA13	24794100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CA15	24590104	PF, 0.1 $\mu$ F
CA16	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CA21	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CA22	24797010	EL, 1 $\mu$ F, $\pm$ 20%, 50V
CA29	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CA31	24473300	CD, 30pF
CA32	24473300	CD, 30pF
CA33	24212102	CD, 1000pF, $\pm$ 10%
CA90	24538474	PF, 0.47 $\mu$ F
CA91	24212102	CD, 1000pF, $\pm$ 10%
CA92	24590104	PF, 0.1 $\mu$ F
CB01	24474101	CD, 100pF, $\pm$ 10%
CB01(U903)	24794470	EL, 47 $\mu$ F, $\pm$ 20%, 16V (2855DB)
CB09	24794330	EL, 33 $\mu$ F, $\pm$ 20%, 16V
CB10	24797010	EL, 1 $\mu$ F, $\pm$ 20%, 50V
CB11	24436181	CD, 180pF
CB12	24212561	CD, 560pF, $\pm$ 10%
CB13	24212472	CD, 4700pF, $\pm$ 10%
CD01	24796220	EL, 22 $\mu$ F, $\pm$ 20%, 35V
CD11	24676339	EL, 3.3 $\mu$ F, $\pm$ 20%, 100V

Location No.	Part No.	Description
CF02	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CF03	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CF05	24212102	CD, 1000pF, $\pm$ 10%
CF06	24353150	CD, 15pF
CF07	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CF08	24590104	PF, 0.1 $\mu$ F
CF09	24085944	EL, 2.2 $\mu$ F, $\pm$ 20%, 50V, Non-Polar
CF10	24794330	EL, 33 $\mu$ F, $\pm$ 20%, 16V
CF11	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CF16	24353080	CD, 8pF, $\pm$ 0.25pF
CF17	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CF18	24590104	PF, 0.1 $\mu$ F
CF19	24794101	EL, 100 $\mu$ F, $\pm$ 20%, 16V
CF20	24473220	CD, 22pF
CG04	24206010	EL, 1 $\mu$ F, 50V
CG05	24203220	EL, 22 $\mu$ F, $\pm$ 20%, 16V
CG07	24206010	EL, 1 $\mu$ F, 50V
CG08	24206010	EL, 1 $\mu$ F, 50V
CG09	24206010	EL, 1 $\mu$ F, 50V
CG10	24474102	CD, 1000pF, $\pm$ 10%
CG12	24590273	PF, 0.027 $\mu$ F
CG13	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CG14	24203101	EL, 100 $\mu$ F, $\pm$ 20%, 16V
CG15	24590822	PF, 8200pF
CG16	24206010	EL, 1 $\mu$ F, 50V
CG17	24590273	PF, 0.027 $\mu$ F
CG18	24590822	PF, 8200pF
CG19	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CG20	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CG21	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CG22	24591224	PF, 0.22 $\mu$ F
CG23	24590104	PF, 0.1 $\mu$ F
CG24	24590104	PF, 0.1 $\mu$ F
CG25	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CG26	24203100	EL, 10 $\mu$ F, $\pm$ 20%, 16V
CG27	24797478	EL, 0.47 $\mu$ F, $\pm$ 20%, 50V
CG28	24797478	EL, 0.47 $\mu$ F, $\pm$ 20%, 50V
CG29	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CG30	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CG31	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CM09	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CN01	24473270	CD, 27pF
CN02	24436270	CD, 27pF
CN03	24474101	CD, 100pF, $\pm$ 10% (2555DB/2855DB)
CN04	24436101	CD, 100pF
CN06	24232103	CD, 0.01 $\mu$ F, +80%, -20% (2555DB)
CN11	24232103	CD, 0.01 $\mu$ F, +80%, -20% (2555DB/2855DB)
CN12	24474271	CD, 270pF, $\pm$ 10% (2555DB)
CN12	24474331	CD, 330pF, $\pm$ 10% (2855DB)
CN13	24474121	CD, 120pF, $\pm$ 10%
CN14	24474102	CD, 1000pF, $\pm$ 10%
CN16	24590273	PF, 0.027 $\mu$ F (2555DB/2855DB)
CN16	24590103	PF, 0.01 $\mu$ F (2552DB/2852DB)
CN17	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV01	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CV02	24206010	EL, 1 $\mu$ F, 50V
CV03	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CV04	24206010	EL, 1 $\mu$ F, 50V
CV05	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV06	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V

Location No.	Part No.	Description
CV07	24797010	EL, 1 $\mu$ F, $\pm$ 20%, 50V
CV08	24797010	EL, 1 $\mu$ F, $\pm$ 20%, 50V
CV09	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV10	24797010	EL, 1 $\mu$ F, $\pm$ 20%, 50V
CV11	24797010	EL, 1 $\mu$ F, $\pm$ 20%, 50V
CV12	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CV14	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV15	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CV16	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CV17	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CV18	24797220	EL, 22 $\mu$ F, $\pm$ 20%, 50V
CV19	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV20	24212102	CD, 1000pF, $\pm$ 10%
CV21	24212102	CD, 1000pF, $\pm$ 10%
CV23	24793471	EL, 470 $\mu$ F, $\pm$ 20%, 10V
CV24	24212102	CD, 1000pF, $\pm$ 10%
CV25	24212102	CD, 1000pF, $\pm$ 10%
CV26	24212102	CD, 1000pF, $\pm$ 10%
CV27	24212102	CD, 1000pF, $\pm$ 10%
CV31	24793471	EL, 470 $\mu$ F, $\pm$ 20%, 10V
CV32	24797101	EL, 100 $\mu$ F, $\pm$ 20%, 50V
CV33	24085981	EL, 10 $\mu$ F, $\pm$ 20%, 16V, Non-Polar
CV34	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CV35	24085981	EL, 10 $\mu$ F, $\pm$ 20%, 16V, Non-Polar
CV36	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CV37	24212471	CD, 470pF, $\pm$ 10%
CV38	24212471	CD, 470pF, $\pm$ 10%
CV39	24212471	CD, 470pF, $\pm$ 10%
CV40	24212471	CD, 470pF, $\pm$ 10%
CV41	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CV46	24794331	EL, 330 $\mu$ F, $\pm$ 20%, 16V
CV72	24794220	EL, 22 $\mu$ F, $\pm$ 20%, 16V
CV73	24794220	EL, 22 $\mu$ F, $\pm$ 20%, 16V
CV74	24436470	CD, 47pF
CW01	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CW02	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CW05	24232103	CD, 0.01 $\mu$ F, +80%, -20%
CX02	24797478	EL, 0.47 $\mu$ F, $\pm$ 20%, 50V
CX03	24797478	EL, 0.47 $\mu$ F, $\pm$ 20%, 50V
CX04	24797478	EL, 0.47 $\mu$ F, $\pm$ 20%, 50V
CX05	24206010	EL, 1 $\mu$ F, 50V
CX06	24206010	EL, 1 $\mu$ F, 50V
CX07	24206010	EL, 1 $\mu$ F, 50V
CX08	24797100	EL, 10 $\mu$ F, $\pm$ 20%, 50V
CX09	24797010	EL, 1 $\mu$ F, $\pm$ 20%, 50V
CX10	24797010	EL, 1 $\mu$ F, $\pm$ 20%, 50V
CX11	24797010	EL, 1 $\mu$ F, $\pm$ 20%, 50V

#### RESISTORS

R208	24366432	CF, 4300 ohm
R211	24366473	CF, 47k ohm
R212	24366103	CF, 10k ohm
R213	24366103	CF, 10k ohm
R214	24366182	CF, 1800 ohm
R215	24366152	CF, 1500 ohm
R216	24366333	CF, 33k ohm
R218	24366472	CF, 4700 ohm
R219	24366472	CF, 4700 ohm
R220	24366473	CF, 47k ohm
R221	24366473	CF, 47k ohm
R222	24366473	CF, 47k ohm
R223	24366472	CF, 4700 ohm

Location No.	Part No.	Description
R224	24366682	CF, 6800 ohm
R228	24366182	CF, 1800 ohm
R231	24366102	CF, 1k ohm
R233	24366821	CF, 820 ohm
R237	24366471	CF, 470 ohm
R242	24366183	CF, 18k ohm(2555DB)
R242	24366153	CF, 15k ohm(2855DB)
R243	24366103	CF, 10k ohm
R244	24366203	CF, 20k ohm
R245	24366622	CF, 6200 ohm
R246	24366103	CF, 10k ohm
R247	24366101	CF, 100 ohm
R252	24061593	VR, 500 ohm, 1/8W
R253	24061593	VR, 500 ohm, 1/8W
R255	24066601	VR, 20k ohm, 1/10W
R260	24366333	CF, 33k ohm
R261	24366153	CF, 15k ohm
R262	24366153	CF, 15k ohm
R266	24366153	CF, 15k ohm
R267	24366153	CF, 15k ohm
R268	24366184	CF, 180k ohm
R270	24366822	CF, 8200 ohm
R281	24366104	CF, 100k ohm (2555DB/2855DB)
R282	24366221	CF, 220 ohm(2555DB)
R282	24366181	CF, 180 ohm(2855DB)
R283	24366221	CF, 220 ohm(2555DB)
R283	24366391	CF, 390 ohm(2855DB)
R283	24366101	CF, 100 ohm(2552DB/2852DB)
R285	24366473	CF, 47k ohm(2555DB/2855DB)
R286	24366473	CF, 47k ohm(2555DB/2855DB)
R287	24366223	CF, 22k ohm(2555DB/2855DB)
R289	24366473	CF, 47k ohm(2555DB/2855DB)
R290	24366103	CF, 10k ohm(2555DB/2855DB)
R299	24366681	CF, 680 ohm
R301	24366221	CF, 220 ohm
R302	24366274	CF, 270k ohm
R303	24366393	CF, 39k ohm(2555DB)
R303	24366563	CF, 56k ohm(2855DB)
R303	24366363	CF, 36k ohm(2552DB)
R304	24366683	CF, 68k ohm(2555DB)
R304	24366273	CF, 27k ohm(2855DB)
R304	24366513	CF, 51k ohm(2552DB)
R305	24366151	CF, 150 ohm
R306	24366823	CF, 82k ohm(2555DB)
R306	24366473	CF, 47k ohm(2855DB)
R306	24366563	CF, 56k ohm(2552DB)
R307	24366304	CF, 300k ohm(2555DB)
R307	24366364	CF, 360k ohm(2855DB)
R307	24366394	CF, 390k ohm(2552DB)
R308	24366102	CF, 1k ohm
R309	24383561	OMF, 560 ohm, 2W(2555DB)
R309	24383391	OMF, 390 ohm, 2W(2855DB)
R309	24383471	OMF, 470 ohm, 2W(2552DB)
R311	24366473	CF, 47k ohm
R312	24366204	CF, 200k ohm
R313	24366104	CF, 100k ohm
R314	24366105	CF, 1M ohm
R315	24366155	CF, 1.5M ohm
R316	24366154	CF, 150k ohm
R317	24366103	CF, 10k ohm
R318	24366101	CF, 100 ohm
R319	24366101	CF, 100 ohm
R320	24366101	CF, 100 ohm

Location No.	Part No.	Description
R321	24366102	CF, 1k ohm
R322	24321159	MF, 1.5 ohm, 1/2W
R323	24322688	MF, 0.68 ohm, 1W(2555DB)
R323	24322568	MF, 0.56 ohm, 1W(2855DB)
△ R327	24339479	MF, 4.7 ohm, 2W
R329	24366223	CF, 22k ohm
R334	24383561	OMF, 560 ohm, 2W(2555DB)
R334	24383751	OMF, 750 ohm, 2W (2855DB/2552DB)
R336	24383331	OMF, 330 ohm, 2W (2555DB only)
R340	24382271	OMF, 270 ohm, 1W(2555DB)
R340	24382331	OMF, 330 ohm, 1W(2855DB)
R341	24366182	CF, 1800 ohm
R342(U903)	24366562	CF, 5600 ohm
R342(U902A)	24366103	CF, 10k ohm
R343	24310109	MF, 1.0 ohm, 1/2W (2555DB/2552DB)
R343	24321109	MF, 1.0 ohm(2855DB/2852DB)
R344(U903)	24366392	CF, 3900 ohm
R344(U902A)	24366392	CF, 3900 ohm
R345	24366103	CF, 10k ohm
R346	24366103	CF, 10k ohm
R349	24366153	CF, 15k ohm
R402	24366273	CF, 27k ohm
R403	24366272	CF, 2700 ohm
R404	24552472	OMF, 4700 ohm, 1/2W
R405	24366431	CF, 430 ohm
R406	24366331	CF, 330 ohm(2555DB)
R406	24366220	CF, 22 ohm(2855DB/2852DB)
R407	24366151	CF, 150 ohm(2555DB)
R407	24366131	CF, 130 ohm(2855DB)
R408	24366562	CF, 5600 ohm
R409	24366204	CF, 200k ohm
R410	24552472	OMF, 4700 ohm, 1/2W
R411	24366561	CF, 560 ohm
R413	24366151	CF, 150 ohm
R415	24382272	OMF, 2700 ohm, 1W
R416	24510562	Cement, 5600 ohm, 5W
R421	24366104	CF, 100k ohm
R430	24366272	CF, 2700 ohm
R431	24366102	CF, 1k ohm
R432	24366473	CF, 47k ohm
R433	24366333	CF, 33k ohm
R434	24366123	CF, 12k ohm
R440	24366472	CF, 4700 ohm
R442	24382102	OMF, 1k ohm, 1W
R444	24322398	MF, 0.39 ohm, 1W
R446	24533151	FR, 150 ohm, 2W
△ R448	24338338	MF, 0.33 ohm, 1W
R452	24069547	VR, 5k ohm, 0.08W, CC
R470	24322568	MF, 0.56 ohm, 1W
R471	24552101	OMF, 100 ohm, 1/2W
R472	24376393	CF, 39k ohm, 1/2W
R474	24366331	CF, 330 ohm
R475	24366102	CF, 1k ohm
R477	24366153	CF, 15k ohm
R501	24366561	CF, 560 ohm
R502	24366334	CF, 330k ohm
R504	24366391	CF, 390 ohm(2555DB)
R504	24366471	CF, 470 ohm (2855DB/2552DB/2852DB)
R507	24366822	CF, 8200 ohm
R508	24366561	CF, 560 ohm

Location No.	Part No.	Description
R509	24366223	CF, 22k ohm
R511	24366202	CF, 2k ohm
R512	24366182	CF, 1800 ohm
R513	24366122	CF, 1200 ohm
R514	24366562	CF, 5600 ohm
R515	24366221	CF, 220 ohm
R516	24366221	CF, 220 ohm
R517	24366221	CF, 220 ohm
R518	24366475	CF, 4.7M ohm
R520	24366102	CF, 1k ohm (2555DB/2855DB)
R521	24366562	CF, 5600 ohm (2552DB/2852DB)
R522	24366185	CF, 1.8M ohm
R523	24366332	CF, 3300 ohm (2555DB/2855DB)
R527	24366154	CF, 150k ohm (2552DB/2852DB)
R528	24366221	CF, 220 ohm
R529	24366681	CF, 680 ohm
R530	24366472	CF, 4700 ohm
R531	24366472	CF, 4700 ohm
R532	24366122	CF, 1200 ohm
R533	24366331	CF, 330 ohm
R534	24366331	CF, 330 ohm
R535	24366331	CF, 330 ohm
R536	24366152	CF, 1500 ohm
R537	24366152	CF, 1500 ohm
R538	24366152	CF, 1500 ohm
R540	24366222	CF, 2200 ohm
R541	24366222	CF, 2200 ohm
R543	24366222	CF, 2200 ohm
R547	24552560	OMF, 56 ohm, 1/2W (2555DB)
R547	24366560	CF, 56 ohm (2855DB)
R548	24366101	CF, 100 ohm
R551	24066955	VR, 1k ohm, 1/10W
R557	24061589	VR, 10k ohm, 1/8W
R558	24061589	VR, 10k ohm, 1/8W
R559	24061589	VR, 10k ohm, 1/8W
R561	24366270	CF, 27 ohm
R562	24366680	CF, 68 ohm (2555DB)
R562	24366270	CF, 27 ohm (2855DB)
R563	24366100	CF, 10 ohm
R564	24366181	CF, 180 ohm
R565	24366181	CF, 180 ohm
R591	24383153	OMF, 15k ohm, 2W
R592	24383153	OMF, 15k ohm, 2W
R593	24383153	OMF, 15k ohm, 2W
R633	24366229	CF, 2.2 ohm
R634	24366229	CF, 2.2 ohm
R635	24366153	CF, 15k ohm
R635	24366103	CF, 10k ohm (2552DB/2852DB)
R636	24366153	CF, 15k ohm
R636	24366103	CF, 10k ohm (2552DB/2852DB)
R641	24366103	CF, 10k ohm
R642	24366101	CF, 100 ohm
R643	24552331	OMF, 330 ohm, 1/2W (2855DB)
R644	24552331	OMF, 330 ohm, 1/2W (2855DB)
R662	24366103	CF, 10k ohm
R663	24366104	CF, 100k ohm (2552DB)
R666	24366103	CF, 10k ohm
R667	24366103	CF, 10k ohm
R668	24366103	CF, 10k ohm
R670	24366222	CF, 2200 ohm
R673	24366392	CF, 3900 ohm

Location No.	Part No.	Description
R674	24366102	CF, 1k ohm
R675	24366392	CF, 3900 ohm
R678	24366202	CF, 2k ohm (2555DB/2855DB)
R679	24366473	CF, 47k ohm (2555DB/2855DB)
R681	24366222	CF, 2200 ohm
R687	24366103	CF, 10k ohm
R688	24366104	CF, 100k ohm
R689	24366103	CF, 10k ohm
△ R801	24004914	Metal-Glazed Resistor, 5.6M ohm, 1/2W
R803	24382683	OMF, 68k ohm, 1W
R805	24366101	CF, 100 ohm
R810	24366122	CF, 1200 ohm
R812	24552103	OMF, 10k ohm, 1/2W
R813	24366272	CF, 2700 ohm
R815	24552102	OMF, 1k ohm, 1/2W
R816	24382180	OMF, 18 ohm, 1W
R817	24322278	MF, 0.27 ohm, 1W
R818	24321829	MF, 8.2 ohm, 1/2W
R819	24366472	CF, 4700 ohm
R820	24366101	CF, 100 ohm
R825	24366472	CF, 4700 ohm
R832	24321228	MF, 0.22 ohm, 1/2W
R833	24005007	Metal-Glazed Resistor, 8.2M ohm, 1W
R842	24366681	CF, 680 ohm
R843	24366821	CF, 820 ohm
R848	24552332	OMF, 3300 ohm, 1/2W
R860	24366681	CF, 680 ohm
R861	24366221	CF, 220 ohm
R863	24366102	CF, 1k ohm
R865	24366681	CF, 680 ohm
R866	24366471	CF, 470 ohm
R867	24366103	CF, 10k ohm
R868	24366472	CF, 4700 ohm
R870	24382223	OMF, 22k ohm, 1W
R872	24569339	Cement, 3.3 ohm, 10W
△ R878	24531560	FR, 56 ohm, 1/2W
R879	24366472	CF, 4700 ohm
△ R884	24531120	FR, 12 ohm, 1/2W
△ R890	24019340	PTC Thermistor, 18 ohm, 290V
R893	24366103	CF, 10k ohm
R901	24552272	OMF, 2700 ohm, 1/2W
R902	24552272	OMF, 2700 ohm, 1/2W
R903	24552272	OMF, 2700 ohm, 1/2W
△ R920	24000907	FR, 3.9 ohm, 1W
RA01	24366223	CF, 22k ohm
RA02	24366104	CF, 100k ohm (2855DB/2552DB)
RA03	24366103	CF, 10k ohm
RA04	24366223	CF, 22k ohm (2555DB/2855DB)
RA05	24366103	CF, 10k ohm
RA06	24366103	CF, 10k ohm
RA07	24366222	CF, 2200 ohm
RA10	24366473	CF, 47k ohm
RA11	24366102	CF, 1k ohm
RA12	24366103	CF, 10k ohm
RA13	24366103	CF, 10k ohm
RA16	24366101	CF, 100 ohm
RA18	24366101	CF, 100 ohm
RA19	24366102	CF, 1k ohm
RA20	24366331	CF, 330 ohm
RA21	24366331	CF, 330 ohm

Location No.	Part No.	Description
RA22	24366103	CF, 10k ohm
RA23	24366473	CF, 47k ohm
RA24	24366162	CF, 1600 ohm
RA25	24366162	CF, 1600 ohm
RA26	24366162	CF, 1600 ohm
RA27	24366223	CF, 22k ohm
RA28	24366223	CF, 22k ohm
RA29	24366562	CF, 5600 ohm
RA32	24366223	CF, 22k ohm
RA33	24366103	CF, 10k ohm
RA34	24366223	CF, 22k ohm
RA35	24366102	CF, 1k ohm
RA36	24366223	CF, 22k ohm
RA40	24366223	CF, 22k ohm
RA41	24366223	CF, 22k ohm
RA60	24366392	CF, 3900 ohm
RA61	24366102	CF, 1k ohm
RA62	24366103	CF, 10k ohm
RA63	24366103	CF, 10k ohm
RA68	24366473	CF, 47k ohm
RA69	24366223	CF, 22k ohm
RA81	24366103	CF, 10k ohm
RA84	24366392	CF, 3900 ohm
RA85	24366392	CF, 3900 ohm
RA86	24366472	CF, 4700 ohm
RA87	24366472	CF, 4700 ohm
RA90	24366391	CF, 390 ohm
RA92	24366102	CF, 1k ohm
RA94	24366392	CF, 3900 ohm
RA95	24366392	CF, 3900 ohm
RA97	24366332	CF, 3300 ohm
RA98	24366682	CF, 6800 ohm
RA99	24366203	CF, 20k ohm
RB01	24366103	CF, 10k ohm
RB01(U903)	24366470	CF, 47 ohm (2855DB)
RB02	24366332	CF, 3300 ohm
RB03	24366103	CF, 10k ohm
RB04	24366103	CF, 10k ohm
RB05	24366332	CF, 3300 ohm
RB06	24366333	CF, 33k ohm
RB10	24366182	CF, 1800 ohm
RB11	24366471	CF, 470 ohm
RB12	24366333	CF, 33k ohm
RB13	24366564	CF, 560k ohm
RB14	24366123	CF, 12k ohm
RB15	24366392	CF, 3900 ohm
RB16	24366392	CF, 3900 ohm
RB19	24366223	CF, 22k ohm
△RD01	24000211	FR, 15 ohm, 1/2W
RD02	24323229	MF, 2.2 ohm, 2W
RD03	24366562	CF, 5600 ohm
RD04	24552102	OMF, 1k ohm, 1/2W
RD05	24552332	OMF, 3300 ohm, 1/2W
RD06	24366242	CF, 2400 ohm
RD07	24366273	CF, 27k ohm
RD08	24366114	CF, 110k ohm
RD09	24366153	CF, 15k ohm
RD10	24366153	CF, 15k ohm
RF01	24366332	CF, 3300 ohm
RF03	24366100	CF, 10 ohm
RF04	24366273	CF, 27k ohm
RF05	24366472	CF, 4700 ohm
RF06	24366103	CF, 10k ohm
RF07	24366103	CF, 10k ohm

Location No.	Part No.	Description
RF08	24366101	CF, 100 ohm
RF09	24366102	CF, 1k ohm
RF12	24366103	CF, 10k ohm
RF13	24366101	CF, 100 ohm
RF14	24366101	CF, 100 ohm
RF15	24366392	CF, 3900 ohm
RF16	24366103	CF, 10k ohm
RF17	24366332	CF, 3300 ohm
RF18	24366682	CF, 6800 ohm
RF19	24366101	CF, 100 ohm
RF20	24366102	CF, 1k ohm
RF21	24366102	CF, 1k ohm
RF22	24366101	CF, 100 ohm
RF23	24366102	CF, 1k ohm
RG03	24366101	CF, 100 ohm
RG04	24366101	CF, 100 ohm
RG10	24366362	CF, 3600 ohm
RG11	24366362	CF, 3600 ohm
RG12	24366272	CF, 2700 ohm
RG13	24366272	CF, 2700 ohm
RG14	24366223	CF, 22k ohm
RG15	24366223	CF, 22k ohm
RM26	24366153	CF, 15k ohm
RN01	24366101	CF, 100 ohm
RN02	24366152	CF, 1500 ohm
RN04	24366303	CF, 30k ohm(2555DB/2855DB)
RN07	24366153	CF, 15k ohm(2555DB/2855DB)
RN08	24366185	CF, 1.8M ohm (2555DB/2855DB)
RN08	24366103	CF, 10k ohm(2552DB/2852DB)
RN09	24366104	CF, 100k ohm (2555DB/2855DB)
RN10	24366153	CF, 15k ohm(2555DB/2855DB)
RN11	24366103	CF, 10k ohm
RN12	24366122	CF, 1200 ohm
RN13	24366103	CF, 10k ohm
RN15	24366473	CF, 47k ohm (2555DB/2855DB)
RN16	24366473	CF, 47k ohm (2555DB/2855DB)
RN18	24366473	CF, 47k ohm
RN20	24366103	CF, 10k ohm
RN21	24366473	CF, 47k ohm
RN22	24366473	CF, 47k ohm
RN24	24366332	CF, 3300 ohm
RN25	24366105	CF, 1M ohm(2555DB)
RN26	24366103	CF, 10k ohm(2555DB)
RN27	24366473	CF, 47k ohm(2555DB)
RN28	24366473	CF, 47k ohm(2555DB)
RN29	24366473	CF, 47k ohm(2555DB)
RN30	24366473	CF, 47k ohm(2555DB)
RN34	24366104	CF, 100k ohm
RN35	24366561	CF, 560 ohm
RV01	24366101	CF, 100 ohm
RV02	24366102	CF, 1k ohm
RV03	24366472	CF, 4700 ohm
RV04	24366472	CF, 4700 ohm
RV05	24366101	CF, 100 ohm
RV06	24366102	CF, 1k ohm
RV07	24366101	CF, 100 ohm
RV08	24366102	CF, 1k ohm
RV10	24366101	CF, 100 ohm
RV11	24366472	CF, 4700 ohm
RV12	24366472	CF, 4700 ohm

Location No.	Part No.	Description
RV13	24366101	CF, 100 ohm
RV16	24366104	CF, 100k ohm
RV17	24366223	CF, 22k ohm
RV18	24366473	CF, 47k ohm
RV21	24366101	CF, 100 ohm
RV22	24366101	CF, 100 ohm
RV23	24366561	CF, 560 ohm
RV24	24552331	OMF, 330 ohm, 1/2W
△RV25	24019261	FR, 47 ohm, ±2%, 1/4W
RV26	24366222	CF, 2200 ohm
RV27	24366104	CF, 100k ohm
RV28	24366104	CF, 100k ohm
RV29	24366221	CF, 220 ohm
RV30	24366152	CF, 1500 ohm
RV31	24366750	CF, 75 ohm
RV32	24366750	CF, 75 ohm
RV34	24366151	CF, 150 ohm
RV36	24366750	CF, 75 ohm
RV37	24366104	CF, 100k ohm
RV38	24366104	CF, 100k ohm
RV39	24366750	CF, 75 ohm
RV40	24366750	CF, 75 ohm
RV41	24366103	CF, 10k ohm
RV42	24366750	CF, 75 ohm
RV43	24366620	CF, 62 ohm
RV44	24366620	CF, 62 ohm
RV45	24366620	CF, 62 ohm
RV47	24366101	CF, 100 ohm
RV49	24366102	CF, 1k ohm
RV60	24552391	OMF, 390 ohm, 1/2W
RV61	24366130	CF, 13 ohm
RV62	24366130	CF, 13 ohm
RV63	24366130	CF, 13 ohm
RV64	24366104	CF, 100k ohm
RV65	24366104	CF, 100k ohm
RV66	24366104	CF, 100k ohm
RV67	24366104	CF, 100k ohm
RV71	24366750	CF, 75 ohm
RV72	24366103	CF, 10k ohm
RV73	24366750	CF, 75 ohm
RV74	24366472	CF, 4700 ohm
RV75	24366472	CF, 4700 ohm
RV76	24366101	CF, 100 ohm
RV77	24366152	CF, 1500 ohm
RV78	24366103	CF, 10k ohm
RV79	24366750	CF, 75 ohm
RV81	24366101	CF, 100 ohm(2555DB/2855DB)
RV82	24366222	CF, 2200 ohm (2555DB/2855DB)
RV91	24366102	CF, 1k ohm
RW01	24366223	CF, 22k ohm
RW02	24366333	CF, 33k ohm
RW03	24366103	CF, 10k ohm
RW04	24366223	CF, 22k ohm
RW05	24366333	CF, 33k ohm
RW06	24366103	CF, 10k ohm
RW07	24552561	OMF, 560 ohm, 1/2W
RW08	24366103	CF, 10k ohm
RW09	24366123	CF, 12k ohm
RW10	24366103	CF, 10k ohm
RW11	24366103	CF, 10k ohm
RW12	24366123	CF, 12k ohm
RW13	24366103	CF, 10k ohm
RW14	24366123	CF, 12k ohm

Location No.	Part No.	Description
RW15	24366123	CF, 12k ohm
RW25	24366221	CF, 220 ohm
RW26	24366221	CF, 220 ohm
RX01	24366102	CF, 1k ohm
RX02	24366101	CF, 100 ohm
RX03	24366101	CF, 100 ohm
RX04	24366103	CF, 10k ohm
RX05	24366103	CF, 10k ohm
RX06	24366332	CF, 3300 ohm
RX07	24366122	CF, 1200 ohm
RX08	24366122	CF, 1200 ohm
RX09	24366122	CF, 1200 ohm
RX10	24366101	CF, 100 ohm
RX12	24366102	CF, 1k ohm
RX13	24366332	CF, 3300 ohm
RX14	24366103	CF, 10k ohm
RX15	24366473	CF, 47k ohm
RX19	24366201	CF, 200 ohm
RX20	24366152	CF, 1500 ohm
RX21	24366201	CF, 200 ohm
RX22	24366201	CF, 200 ohm
RX27	24366102	CF, 1k ohm
<b>COILS &amp; TRANSFORMERS</b>		
L201	23289220	Coil, Peaking, TRF4220AF (2555DB/2855DB)
L202	23289390	Coil, Peaking, TRF4390AF
L203	23289270	Coil, Peaking, TRF4270AF (2555DB/2855DB)
L301	23103859	Coil (Ferrite Bead), TEM2011
L302	23289101	Coil, Peaking, TRF4101AF
L315	23238714	Coil, Peaking, TRF4100AJ
L405	23221685	Coil, Choke, TLN3193
L412	23221684	Coil, Choke, TLN3191D
L414	23103859	Coil (Ferrite Bead), TEM2011
L421	23248116	Coil, Choke, TLN3368D
L422	23221894	Coil, Choke, TLN3063
L441	23233948	Coil, Linearity, TLN2137G
△L462	-----	DY, Supplied with V901
L503	23238714	Coil, Peaking, TRF4100AJ
L551	23250972	Coil, 1H-Delay Matching, TRF5418D
L590	23289100	Coil, Peaking, TRF4100AF
L810	23103859	Coil (Ferrite Bead), TEM2011
L811	23103859	Coil (Ferrite Bead), TEM2011
L821	23222694	Coil, Width, TLN2026
L823	23221747	Coil, Choke, TRF9253D
L826	23248073	Coil, Choke, TLN3299D
L829	23103859	Coil (Ferrite Bead), TEM2011
L842	23103859	Coil (Ferrite Bead), TEM2011
L866	23289229	Coil, Peaking, TRF42R2AF
L880	23222694	Coil, Width, TLN2026
△L901	23200275	Coil, Degaussing, TSB-2329BR (2555DB/2552DB)
△L901	23200276	Coil, Degaussing, TSB-2330BR (2855DB/2852DB)
LA01	23289109	Coil, Peaking, TRF41R0AF
LA12	23221803	Coil, Choke, TLN3040D
LB01	23262001	Coil, IF, TRF1166D
LD02	23221896	Coil, Choke, TLN3061
LF02	23238712	Coil, Peaking, TRF4150AJ
LF03	23238720	Coil, Peaking, TRF4339AJ
LF04	23238562	Coil, Peaking, TRF4109AJ
LF05	23238714	Coil, Peaking, TRF4100AJ

Location No.	Part No.	Description
LF06	23238714	Coil, Peaking, TRF4100AJ
LF07	23238714	Coil, Peaking, TRF4100AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238506	Coil, Peaking, TRF4229AJ
LF10	23238506	Coil, Peaking, TRF4229AJ
LF11	23103859	Coil (Ferrite Bead), TEM2011
LF12	23238506	Coil, Peaking, TRF4229AJ
LF13	23238714	Coil, Peaking, TRF4100AJ
LN01	23238713	Coil, Peaking, TRF4120AJ
LN02	23238714	Coil, Peaking, TRF4100AJ (2555DB/2855DB)
LN03	23238710	Coil, Peaking, TRF4220AJ
LV01	23289220	Coil, Peaking, TRF4220AF
LV03	23289270	Coil, Peaking, TRF4270AF
△ T401	23224336	Transformer, Horiz. Drive, TLN1083
△ T461	23236454	Transformer, Flyback, TFB4117AR
△ T801	23211670	Line, Filter, TRF3164G
△ T803	23217214	Transformer, Converter, TPW3283AR
<b>SEMICONDUCTORS</b>		
Q205	23314794	Transistor, 2PC1815Y
Q208	23314794	Transistor, 2PC1815Y
Q213	23314794	Transistor, 2PC1815Y
Q214	A6342206	Transistor, 2SC2878-A(TE (2555DB/2855DB))
Q215	A6342206	Transistor, 2SC2878-A(TE (2555DB/2855DB))
Q216	A6002040	Transistor, RN1204 (2555DB/2855DB)
Q240	23314794	Transistor, 2PC1815Y
Q301	B0378560	IC, TA8427K
Q302	B0384683	IC, TA8859AP
Q340(U903)	23314791	Transistor, 2PA1015Y
Q340(U902A)	23314794	Transistor, 2PC1815Y
Q402	A678971D	Transistor, 2SC1569 FA-5
△ Q404	A6872801	Transistor, 2SD2253(FA)
Q408	23319314	IC, UPC2412HF
Q430	23314794	Transistor, 2PC1815Y
Q470	A6547250	Transistor, 2SA1320
Q501	B0384303	IC, TA8808BN
Q505	A6363200	Transistor, 2SC3619
Q507	A6363200	Transistor, 2SC3619
Q509	A6363200	Transistor, 2SC3619
Q510	A6330059	Transistor, 2SC2482(C)
Q511	23314791	Transistor, 2PA1015Y
Q604	23314791	Transistor, 2PA1015Y
Q605	B0376856	IC, TA8211AH
Q608	A6010040	Transistor, RN2004
Q621	A6342206	Transistor, 2SC2878-A(TE
Q622	A6342206	Transistor, 2SC2878-A(TE
Q671	A6342206	Transistor, 2SC2878-A(TE
Q672	23314794	Transistor, 2PC1815Y (2555DB/2855DB)
Q673	A6342206	Transistor, 2SC2878-A(TE
Q801	23904247	IC, STR-S6708
Q802	23314141	Transistor, 2SC3852
△ Q826	A8643108	Photo Coupler, TLP621(GR-LF
△ Q827	A6907751	IC, S1854
Q828	23314794	Transistor, 2PC1815Y
Q831	23314794	Transistor, 2PC1815Y
Q835	23318299	IC, L78MR05

Location No.	Part No.	Description
Q836	23314791	Transistor, 2PA1015Y
Q861	23314141	Transistor, 2SC3852
Q870	A6333346	Transistor, 2SC2655-Y(C)
Q871	23314794	Transistor, 2PC1815Y
Q890	23314141	Transistor, 2SC3852
QA01	23905276	IC, 85332A-130S
QA02(U902A)	23904665	IC, NM24C04EN
QA02(U902A)	23904762	IC, ST24C04CB6
QA10	23319935	IC, MM1096BS
QB01	23314794	Transistor, 2PC1815Y
QB02	23314794	Transistor, 2PC1815Y
QB11	23314794	Transistor, 2PC1815Y
QB12	23314791	Transistor, 2PA1015Y
QD01	A6625365	Transistor, 2SB688-O(BS)
QD02	23314794	Transistor, 2PC1815Y
QD03	23314794	Transistor, 2PC1815Y
QF02	23904779	IC, SAA5281P/E
QF04	23314794	Transistor, 2PC1815Y
QF05	23314794	Transistor, 2PC1815Y
QF06	23314794	Transistor, 2PC1815Y
QG01	B0385640	IC, TA1216N
QN02	23314791	Transistor, 2PA1015Y
QN03	23314791	Transistor, 2PA1015Y
QN04	A6342206	Transistor, 2SC2878-A(TE (2555DB only))
QN05	A6342206	Transistor, 2SC2878-A(TE (2555DB only))
QN07	A6000020	Transistor, RN1002
QN08	23314794	Transistor, 2PC1815Y
QN13	A6342206	Transistor, 2SC2878-A(TE (2555DB/2855DB))
QN15	A6342206	Transistor, 2SC2878-A(TE
QV01	B0383720	IC, TA8747N
QV03	A6342206	Transistor, 2SC2878-A(TE
QV04	A6534053	Transistor, 2SA1015-Y(TE
QV05	23314791	Transistor, 2PA1015Y
QV06	23314791	Transistor, 2PA1015Y
QV07	23314794	Transistor, 2PC1815Y
QV81	A6534053	Transistor, 2SA1015-Y(TE (2555DB/2855DB))
QW01	23314791	Transistor, 2PA1015Y
QW02	23314791	Transistor, 2PA1015Y
QW03	23314791	Transistor, 2PA1015Y
QW04	23314791	Transistor, 2PA1015Y
QX01	23119139	IC, AN5862K
QX02	A6534077	Transistor, 2SA1015-GR
QX03	A6734585	Transistor, 2SC752(G)TM-O
QX04	23314794	Transistor, 2PC1815Y
QX05	23314794	Transistor, 2PC1815Y
QX06	23314794	Transistor, 2PC1815Y
QX07	23314794	Transistor, 2PC1815Y
QX09	23314794	Transistor, 2PC1815Y
QX10	23314794	Transistor, 2PC1815Y
QY09	23114474	Transistor, RN1002 (2855DB/2552DB)
D108	23316756	Diode, Zener, MTJ33D
D201	A7150041	Diode, 1SS104
D203	23115599	Diode, 1N4148
D204	23115599	Diode, 1N4148
D205	23115599	Diode, 1N4148
D246	23115599	Diode, 1N4148
D301	23118479	Diode, BYD33J
D302	23118479	Diode, BYD33J
D303	23115599	Diode, 1N4148



Location No.	Part No.	Description
D320	23118822	Diode, ERB12-02
D321	23118822	Diode, ERB12-02
D332	23316794	Diode, SC570A
D340	23316666	Diode, Zener, MTZJ4.7B
D401(U902A)	23316719	Diode, Zener, MTZJ12B
D401(U902A)	23316719	Diode, Zener, MTZJ12B
D402	23316734	Diode, Zener, MTZJ20B
D403	23316719	Diode, Zener, MTZJ12B
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D410	23316684	Diode, Zener, MTZJ8.2B
D471	A7801205	SCR, SF0R3G42
D474	23316728	Diode, Zener, MTZJ16B
D475	23316719	Diode, Zener, MTZJ12B
D591	23316554	Diode, 1SS146
D592	23316554	Diode, 1SS146
D593	23316554	Diode, 1SS146
D594	23115599	Diode, 1N4148 (2555DB)
D594	A7150258	Diode, 1SS176(FA) (2855DB)
D601	23115599	Diode, 1N4148
D636	23115599	Diode, 1N4148
D637	23115599	Diode, 1N4148
D638	23115599	Diode, 1N4148
D639	23115599	Diode, 1N4148
D640	23115599	Diode, 1N4148
D641	23115599	Diode, 1N4148
D671	A7150351	Diode, 1SS178 (2555DB/2855DB)
D801	23316391	Diode, D3S860, 4109
D802	23118479	Diode, BYD33J
D803	23118479	Diode, BYD33J
D804	23316678	Diode, Zener, MTZJ6.8B
D805	23115599	Diode, 1N4148
D806	23118479	Diode, BYD33J
D807	23118479	Diode, BYD33J
D808	23118479	Diode, BYD33J
D809	23316672	Diode, Zener, MTZJ5.6B
D810	23115599	Diode, 1N4148
D811	23115599	Diode, 1N4148
D812	23115599	Diode, 1N4148
D813	23118479	Diode, BYD33J
D814	23115599	Diode, 1N4148
D815	23316725	Diode, Zener, MTZJ15B
D816	23316674	Diode, Zener, MTZJ6.2A
D825	23115599	Diode, 1N4148
D826	23115599	Diode, 1N4148
D830	23118052	Diode, RU4Z
D831	23118479	Diode, BYD33J
D832	23118451	Diode, RU-4A
D844	23316718	Diode, Zener, MTZJ12A
D848	23316666	Diode, Zener, MTZJ4.7B
D861	23316672	Diode, Zener, MTZJ5.6B
D862	23316690	Diode, Zener, MTZJ10B
D874	23316670	Diode, Zener, MTZJ5.1C
D875	23115599	Diode, 1N4148
D878	23316671	Diode, Zener, MTZJ5.6A
DA02	23316675	Diode, Zener, MTZJ6.2B
DA03	23316675	Diode, Zener, MTZJ6.2B
DA05	23115599	Diode, 1N4148
DA06	23115599	Diode, 1N4148
DA15	23316675	Diode, Zener, MTZJ6.2B
DA96	23316675	Diode, Zener, MTZJ6.2B
DA98	23316675	Diode, Zener, MTZJ6.2B
DA99	23316675	Diode, Zener, MTZJ6.2B

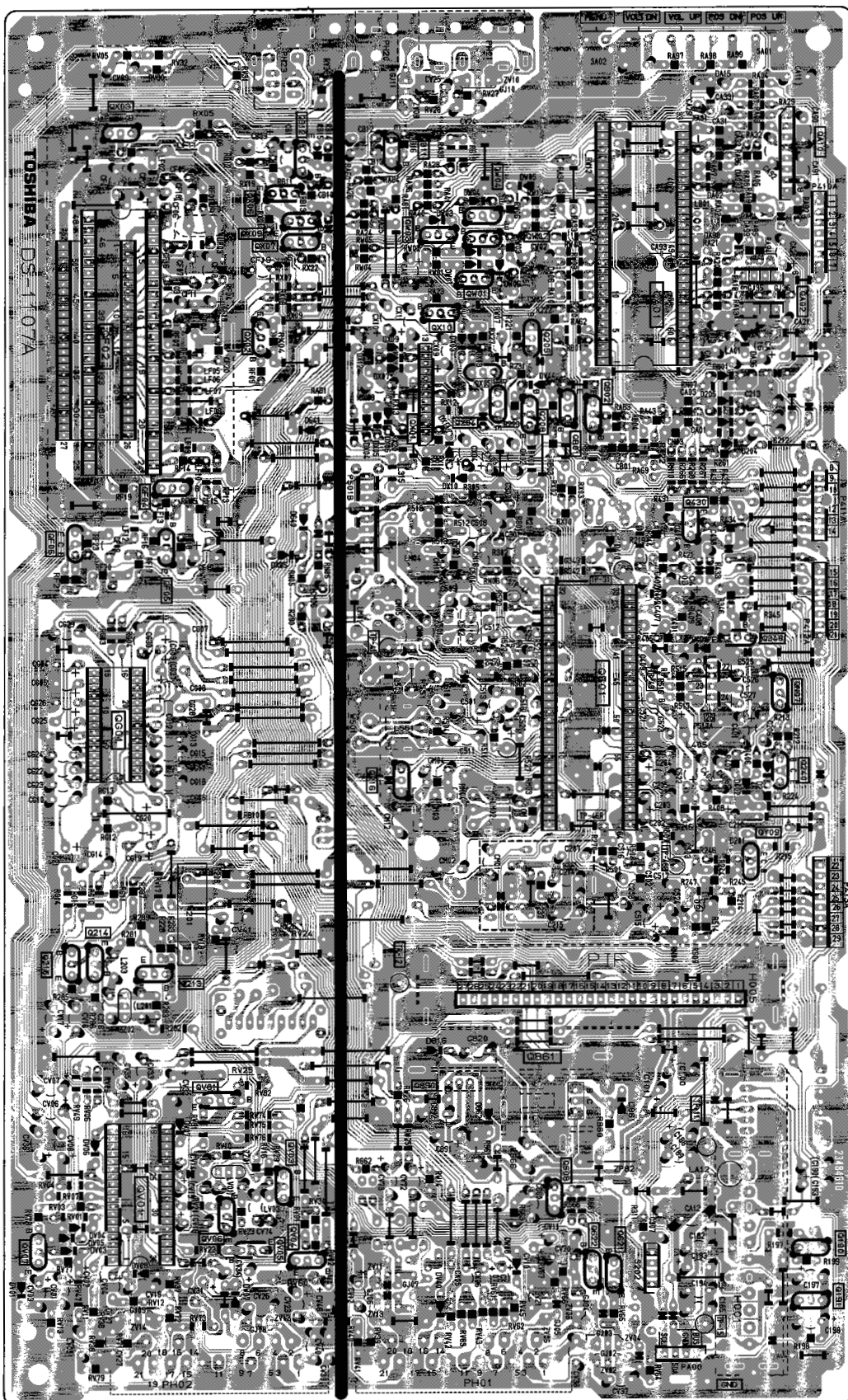
Location No.	Part No.	Description
DB01	23358504	Diode, Zener, SCL003URC3FX
DD01	23118479	Diode, BYD33J
DD02	23316582	Diode, ERC20-06
DD03	23118479	Diode, BYD33J
DD04	23115599	Diode, 1N4148
DD05	23316718	Diode, Zener, MTZJ12A
DD06	23316672	Diode, Zener, MTZJ5.6B
DD07	23316672	Diode, Zener, MTZJ5.6B
DE50	23358504	LED, Red, SCL003URC3FX
DN01	23115599	Diode, 1N4148 (2555DB/2855DB)
DV01	23316690	Diode, Zener, MTZJ10B
DV03	23316690	Diode, Zener, MTZJ10B
DV04	23316690	Diode, Zener, MTZJ10B
DV05	23316690	Diode, Zener, MTZJ10B
DV06	23316690	Diode, Zener, MTZJ10B
DV07	23316690	Diode, Zener, MTZJ10B
DV08	23316687	Diode, Zener, MTZJ9.1B
DV40	23115599	Diode, 1N4148
DV44	23316666	Diode, Zener, MTZJ4.7B
DW01	23115599	Diode, 1N4148
DW02	23115599	Diode, 1N4148
DW03	23115599	Diode, 1N4148
DW04	23115599	Diode, 1N4148
DW05	23316663	Diode, Zener, MTZJ4.3B
DW06	23316667	Diode, Zener, MTZJ4.7C
DW07	23316722	Diode, Zener, MTZJ13B
DW08	23316722	Diode, Zener, MTZJ13B
DX03	23115599	Diode, 1N4148
DX04	23115599	Diode, 1N4148
DX05	23115599	Diode, 1N4148
DX06	23115599	Diode, 1N4148
DX07	23115599	Diode, 1N4148
DX08	23115599	Diode, 1N4148
DX09	23115599	Diode, 1N4148
DX10	23115599	Diode, 1N4148
DX11	23115599	Diode, 1N4148
DX12	23316666	Diode, Zener, MTZJ4.7B
DX13	23115599	Diode, 1N4148
<b>MISCELLANEOUS</b>		
△F801	23144507	Fuse, 3.15A
F801A	23165433	Holder, Fuse
△F803	23144874	Fuse, 0.8A
F803A	23165433	Holder, Fuse
H005	23148249	Module, IF/NICAM, MVGS43A
G343	24366103	CF, 10k ohm
G406	23103859	Coil (Ferrite Bead), TEM2011
GV84	24366681	CF, 680 ohm
GV85	24366681	CF, 680 ohm
GV86	24366681	CF, 680 ohm
GV87	24366681	CF, 680 ohm
GV88	24366681	CF, 680 ohm
GV89	24366681	CF, 680 ohm
K901	23120220	Remote Sensor, IR-9109A-K (2555DB/2552DB/2852DB)
KB01	23904946	Remote Sensor, RPM-676CBR-S (2855DB)
P681	23363607	Jack, Earphone (2855DB)
△P801	23372012	Power Cord
PH01	23365598	Connector, 21Pin
PH02	23365598	Connector, 21Pin
PH20	23363252	Pin Jack, Yellow
PH21	23365508	Jack, Phono



Location No.	Part No.	Description
PH23	23365546	Jack, 2C-2P
S202	23344333	Switch, Lever, 1C3P
SA01	23145428	Switch, Push, 1C1Px4(2555DB)
SA01	23145430	Switch, Push, 1C1P(2855DB)
SA02	23145430	Switch, Push, 1C1P
SA03	23145430	Switch, Push, 1C1P(2855DB)
SA04	24145430	Switch, Push, 1C1P(2855DB)
SA05	24145430	Switch, Push, 1C1P(2855DB)
SR60	23146561	Relay, DC12V (2555DB/2855DB)
△ V901A	23902891	Socket, CRT, 10P
W201	23250120	Delay Line, TRF2133T
W501	23153357	1H Delay, ED645A91M
W661	23351106	Speaker, SPK-1373, 40x160mm, 14 ohm (2555DB)
W661	23351115	Speaker, SPK-1381, 60x120mm, 16 ohm (2855DB)
W661	23351086	Speaker, SPK-1358, 80x120mm, 8 ohm (2552DB)
W662	23351106	Speaker, SPK-1373, 40x160mm, 14 ohm (2555DB)
W662	23351115	Speaker, SPK-1381, 60x120mm, 16 ohm (2855DB)
W662	23351086	Speaker, SPK-1358, 80x120mm, 8 ohm (2552DB)
W671	23351105	Speaker, SPK-1372, 100x100mm, 16 ohm (2555DB/2855DB)
W672	23351105	Speaker, SPK-1372, 100x100mm, 16 ohm (2555DB/2855DB)
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153979	Crystal, 4.43MHz
X502	23153961	Crystal, 3.58MHz (2555DB/2855DB)
XA01	23153845	Ceramic Resonator, 4MHz, TCR1015
ZF01	23153012	Crystal, 27MHz
ZP81	23144451	Protector, PRF5000, 125V, 5A
ZP82	23144452	Protector, PRF1000, 125V, 1A
ZZ01	23303056	Ceramic Trap, TCF1085, 4.43M
ZZ02	23303055	Ceramic Trap, TCF1084, 3.58M (2555DB/2855DB)
<b>PC BOARD ASSEMBLIES</b>		
* U901	23704101	CRT Drive Board, PB5447Y (2555DB/2552DB)
* U901	23704405	CRT Drive Board, PB5447X (2855DB/2852DB)
* U902A	23704251	Signal Board, PB5448M1 (2555DB)
* U902A	23704174	Signal Board, PB5503A1 (2855DB)
* U902A	23704496	Signal Board, PB5448-1G (2552DB)
* U902A	23704343	Signal Board, PB5448A1 (2852DB)
* U902B	23704252	Chroma Board, PB5448M2 (2555DB)
* U902B	23704175	Chroma Board, PB5503A2 (2855DB)
* U902B	23704497	Chroma Board, PB5448-2G (2552DB)

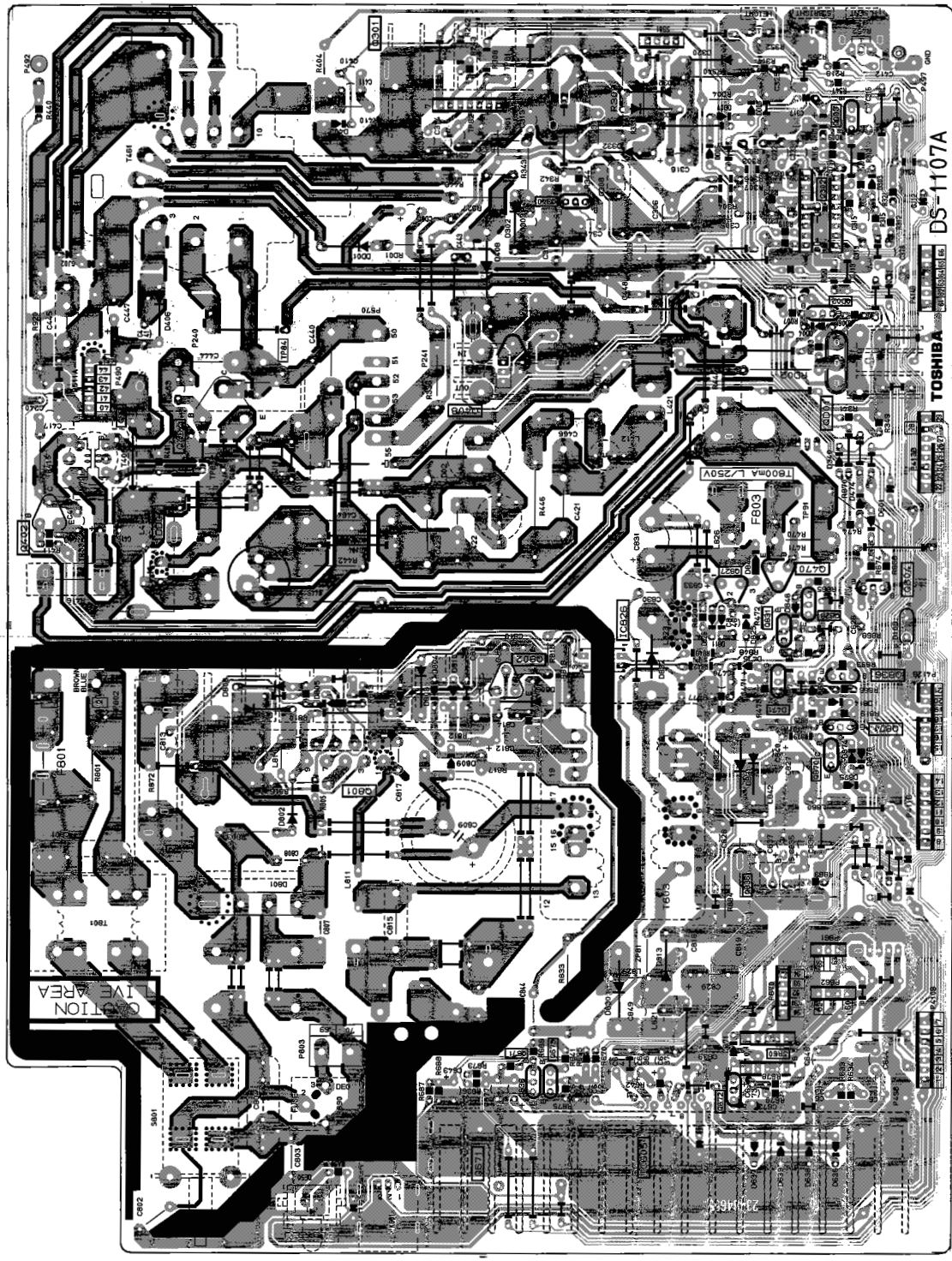
Location No.	Part No.	Description
* U902B	23704348	Chroma Board, PB5448A2 (2852DB)
* U903	23704250	Power/Def/Audio Board, PB5449M (2555DB)
* U903	23704172	Power/Def/Audio Board, PB5504A(2855DB)
* U903	23704495	Power/Def/Audio Board, PB5449G (2552DB)
* U903	23704355	Power/Def/Audio Board, PB5449A (2852DB)
<b>PICTURE TUBE</b>		
△ V901	23312462	Picture Tube, A59EAK71X01 (2555DB/2552DB)
△ V901	23312463	Picture Tube, A66EAK71X01 (2855DB/2852DB)
<b>TUNER</b>		
H001	23321182	Tuner, UF812BL
<b>ACCESSORIES</b>		
K902	23306092	Remote Hand Unit, CT-9785
AT03	23305743	Battery Cover
Y101	23562378	Owner's Manual, English, 2555DB
Y101	23562375	Owner's Manual, English, 2855DB
Y101	23562456	Owner's Manual, English, 2552DB
Y101	23562420	Owner's Manual, English, 2852DB

SIGNAL BOARD (2555DB  
2552DB  
2852DB)  
BOTTOM (FOL) SIDE

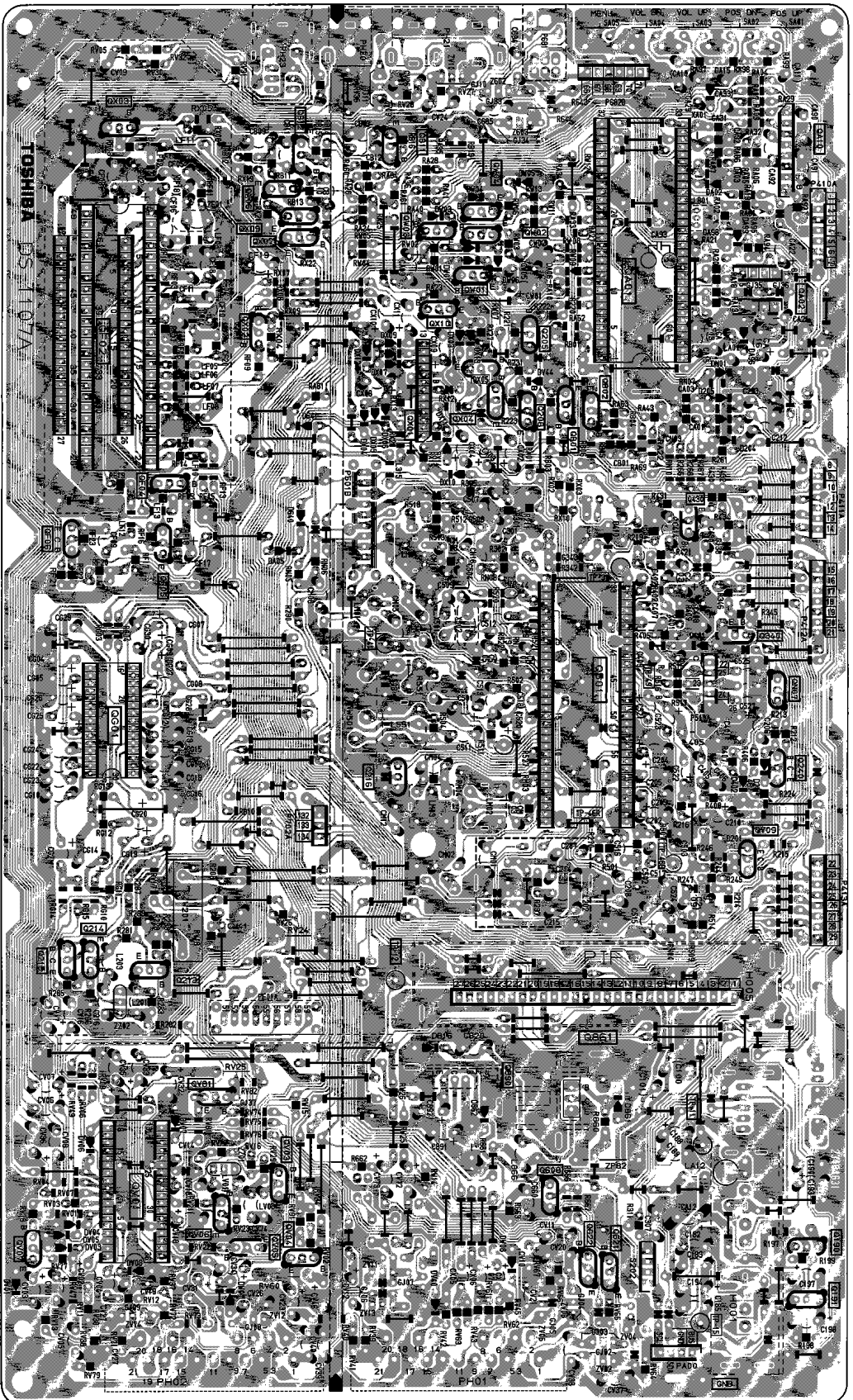


POWER/DEF/AUDIO BOARD  
 (2555DB 2552DB 2852DB)

BOTTOM (FOIL) SIDE

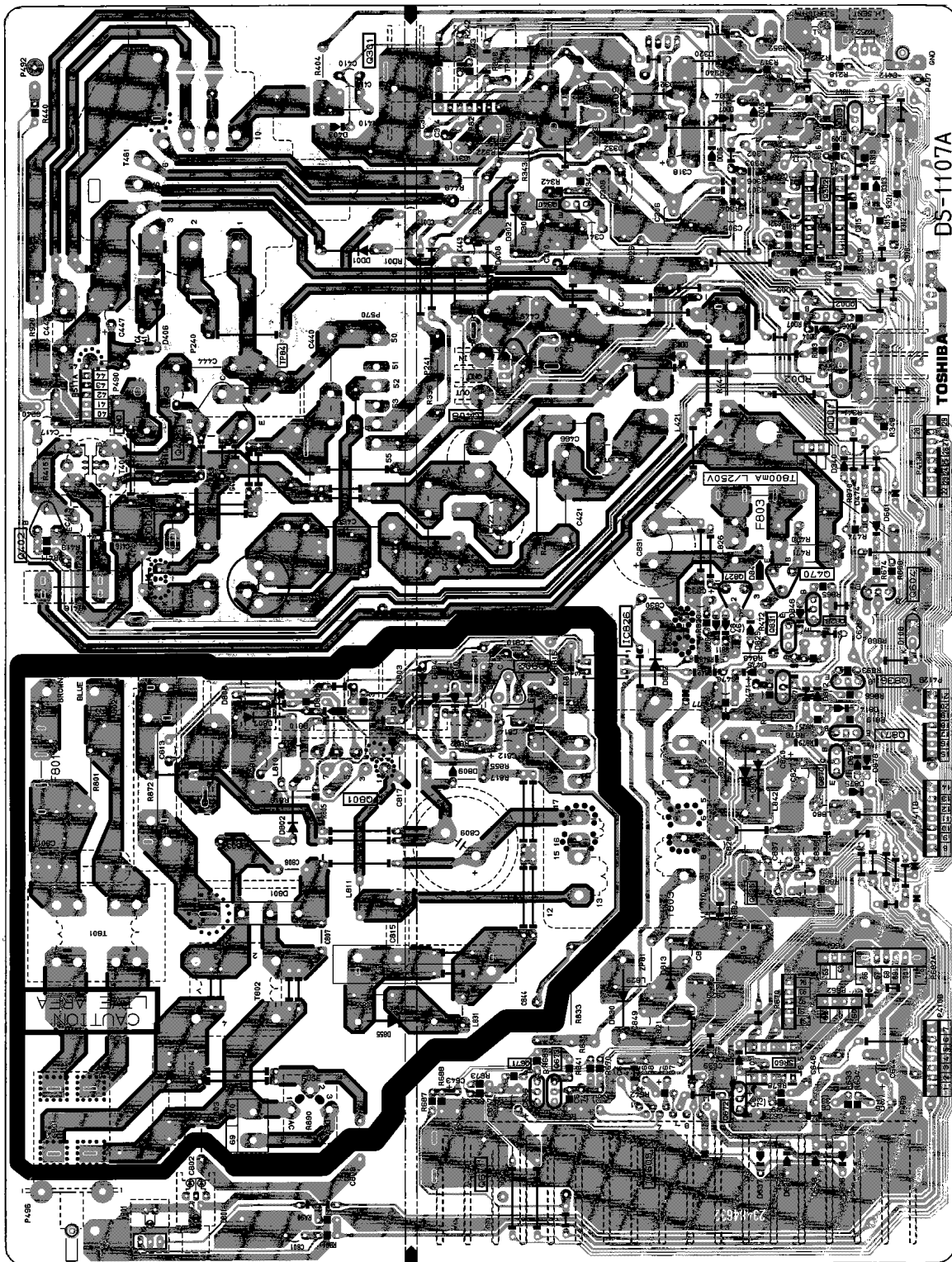


**SIGNAL BOARD (2855DB)**  
 BOTTOM (FOIL) SIDE

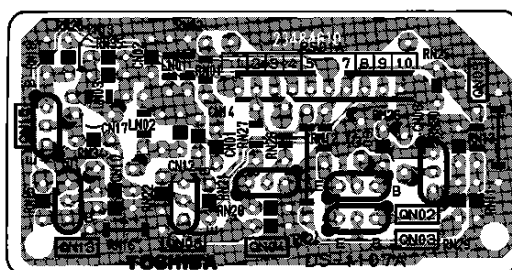
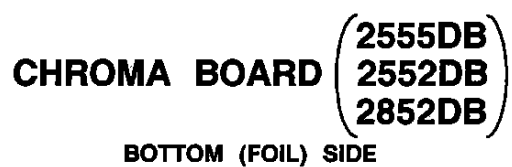




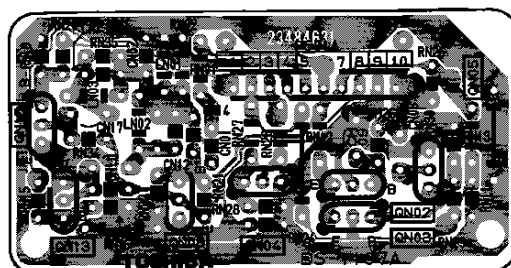
POWER/DEF/AUDIO BOARD (2855DB)  
BOTTOM (FOIL) SIDE



**BOTTOM (FOIL) SIDE**

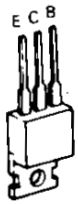


**CHROMA BOARD (2855DB)**  
**BOTTOM (FOIL) SIDE**

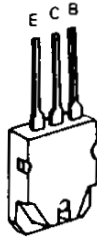


## TERMINAL VIEW OF TRANSISTORS

① 2SC1569



② 2SC3927(A)



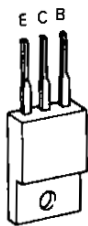
③ 2SC2580-C  
2SC2655



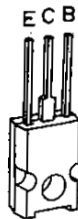
④ 2SA933S  
2SA1015-Y  
2SA1320-Y  
2SC752GTM  
2SC1685-Q  
2SC1740S  
2SC1815-N  
2SC1959-Y  
2SC2120-Y  
2SC2878-A



⑤ 2SB1186A  
2SC3852  
2SD2253



⑥ 2SC3619



⑦ RN1203  
RN1204  
RN1206  
RN2004



⑧ 2SB1186A  
2SD1763A

