POWER SAVING FUNCTION

This monitor meets the power saving guidelines set by the EPA Energy Star Program as well as the more stringent TC092 guidelines (NUTEK). It is capable of reduced power consumption when used with a computer equipped with Display Power Management Signaling(DPMS). By sensing the absence of the sync signal coming from the computer, it will reduce the power consumption as follows:

CAUTION: The Power Saving function will automatically put the monitor into Active-off state if the power switch is turned on without any video signal input.Once the horizontal and vertical syncs are sensed, the monitor will automatically return to its Normal operation state.

	State	Power consumption	Required resumption time	⏻ Power indicator	POWER SAVING indicator
1	Normal operation	100%	————	green on	off
2	Suspend (1st step of power saving)	approx. 10%	approx. 3 sec.	green on	orange on
3	Active-off (2nd step of power saving)	approx. 7%	approx. 10 sec.	off	orange on

TIMING SPECIFICATION

Mode	1	2	3	4	5	6
Resolution(H x V)	640 x 480	800 x 600	832 x 624	1024 x 768	1024 x 768	1280 x 1024
Dot Clock(MHz)	25.175	49.500	57.283	65.000	78.750	110.000
Holizontal						
Hor. freq. (kHz)	31.469	46.875	49.725	48.363	60.024	63.953
H-total	31.778	21.333	20.111	20.677	16.660	15.636
H-Front porch	0.636	0.323	0.559	0.369	0.203	0.727
H-Sync width	3.813	1.616	1.117	2.092	1.219	1.018
H-Back porch	1.907	3.232	3.910	2.462	2.235	2.255
H-blanking	6.356	5.172	5.586	4.923	3.657	4.000
H-Active (µsec)	25.422	16.162	14.524	15.754	13.003	11.636
Vertical						
Ver. freq. (Hz)	59.940	75.000	74.550	60.004	75.030	59.938
V-total	525	625	667	806	800	1067
V-Front porch	10	1	1	3	1	1
V-Sync. width	2	3	3	6	3	5
V-Back porch	33	21	39	29	28	37
V-blanking	45	25	43	38	32	43
V-Active (Lines)	480	600	624	768	768	1024
Sync.	External	External	External	External	External	External
H-Polarity	(–)	(+)	(–)	(–)	(+)	(–)
V-Polarity	(–)	(+)	(–)	(–)	(+)	(–)
Scanning mode	Non-Interlace	Non-Interlace	Non-Interlace	Non-Interlace	Non-Interlace	Non-Interlace

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

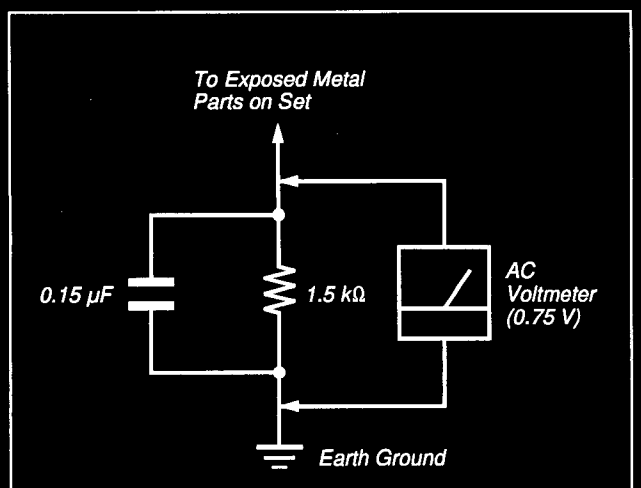


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!
NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!
NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVEE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!
LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

TABLE OF CONTENTS

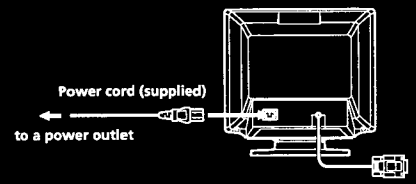
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

SECTION 1
GENERAL

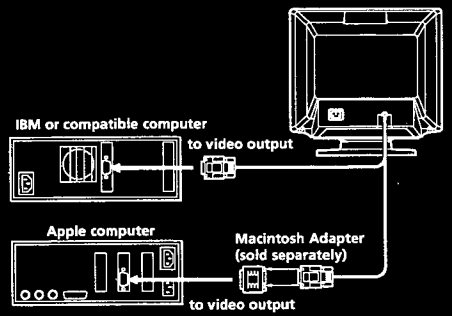
Getting Started

Before using this monitor, please make sure that the following items are included in your package: Multiscan 15sfII/17sfII monitor (1), power cord (1), warranty card (1) and this operating instruction manual (1).
This monitor will sync with any IBM or compatible system equipped with VGA or greater graphics capability.
Although this monitor will sync to other platforms running at horizontal frequencies between 31 and 65 kHz, including Macintosh and Power Macintosh system, a cable adaptor is required. Please consult your dealer for advice on which adaptor is suitable for your needs.

Step 1: With the monitor switched off, attach the power cord to the monitor and the other end to a power outlet.



Step 2: With the computer switched off, attach the video signal cable to the video output.



Step 3: Turn on the monitor and computer.

Step 4: If necessary, adjust the user controls according to your personal preference.

The installation of your Multiscan 15sfII/17sfII is complete. Enjoy your monitor.

Using Your Monitor

Preset and User Modes

The Multiscan 15sfII/17sfII has factory preset modes for the 6 most popular industry standards for true "plug and play" capability.
For less common modes, the Multiscan 15sfII/17sfII's Digital Multiscan Technology will perform all of the complex adjustments necessary to ensure a high quality picture for any timing between 31 and 65 kHz.

No.	Resolution (dots × lines)	Horizontal Frequency	Vertical Frequency	Graphics Mode
1	640 × 480	31.5 kHz	60 Hz	VGA Graphic [1]
2	800 × 600	46.9 kHz	75 Hz	VESA [2]
3	800 × 600	53.7 kHz	85 Hz	VESA [2]
4	832 × 624	49.7 kHz	75 Hz	Macintosh 16" Color [3]
5	1024 × 768	60.0 kHz	75 Hz	VESA [2]
6	1280 × 1024	64.0 kHz	60 Hz	VESA [2]

Note: For Windows®[4] 3.x users, check your video board manual or the utility program which comes with your graphic board and select the highest available refresh rate to maximize monitor performance.

Recommended horizontal timing conditions
Horizontal sync width should be: >1.0 µsec.
Horizontal blanking width should be: >3.0 µsec.
1) VGA is a trademark of IBM Corporation.
2) VESA is a trademark of the non-profit organization, Video Electronics Standard Association.
3) Macintosh is a trademark of Apple Computer Inc.
4) Windows® is a registered trademark of Microsoft Corporation in the United States and other countries.

Adjustments

When one of the preset-type signals is input, no picture adjustment is necessary.
You can, however, adjust the picture to your preferences by following the procedure described below.
You can adjust the all items on the OSD (On Screen Display).

- Before adjusting the items, turn on the unit and feed the video signal from the connected computer/work station.
- When the limit value is reached, the POWER SAVING indicator will begin to flash.
- Adjustments will be stored automatically.

Control Panel

Adjusting the Picture Brightness

The adjustment data becomes the common setting for all input signal.

1 Press the ☼ ←/→ button.
The "CONTRAST/BRIGHTNESS" OSD appears.

2 Press the ☼ ←/→ buttons to adjust picture brightness.
← . . . for less brightness
→ . . . for more brightness

The "CONTRAST/BRIGHTNESS" OSD disappears 2 seconds after you release the buttons.

Adjusting the Picture Contrast

The adjustment data becomes the common setting for all input signal.

1 Press the ◑ ↑/↓ button.
The "CONTRAST/BRIGHTNESS" OSD appears.

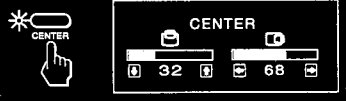
2 Press the ◑ ↑/↓ buttons to adjust picture contrast.
↑ . . . for more contrast
↓ . . . for less contrast

The "CONTRAST/BRIGHTNESS" OSD disappears 2 seconds after you release the buttons.

Adjusting the Picture Centering

The adjustment data becomes the unique setting for the input signal received.

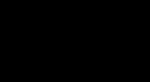
1 Press the CENTER button.
The "CENTER" OSD appears.



2 For vertical adjustment
Press the ◑ ↑/↓ buttons.

↑ . . . to move up
↓ . . . to move down

For holizontal adjustment
Press the ☼ ←/→ buttons.



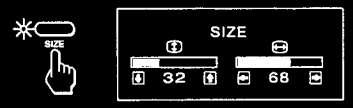
← . . . to move left
→ . . . to move right

To erase the "CENTER" OSD, press the CENTER button again.
The "CENTER" OSD automatically disappears 20 seconds after you release the buttons.

Adjusting the Picture Size

The adjustment data becomes the unique setting for the input signal received.

1 Press the SIZE button.
The "SIZE" OSD appears.



2 For vertical adjustment
Press the ◑ ↑/↓ buttons.

↑ . . . to enlarge
↓ . . . to diminish

For holizontal adjustment
Press the ☼ ←/→ buttons.

← . . . to diminish
→ . . . to enlarge

To erase the "SIZE" OSD, press the SIZE button again.
The "SIZE" OSD automatically disappears 20 seconds after you release the buttons.

Adjusting the Picture Rotation

The adjustment data becomes the common setting for all input signal.

1 Press the GEOM button.
The "GEOMETRY" OSD appears.

2 Press the ◑ ↑/↓ buttons.
↑ . . .to rotate clockwise
↓ . . . to rotate counterclockwise

To erase the "GEOMETRY" OSD, press the GEOM button again.
The "GEOMETRY" OSD automatically disappears 20 seconds after you release the buttons.

Adjusting the Pincushion

The adjustment data becomes the unique setting for the input signal received.

1 Press the GEOM button.
The "GEOMETRY" OSD appears.

2 Press the ☼ ←/→ buttons.

← . . . to diminish the picture sides

→ . . . to expand the picture sides

To erase the "GEOMETRY" OSD, press the GEOM button again.
The "GEOMETRY" OSD automatically disappears 20 seconds after you release the buttons.

Setteing the color temperature

The selected color temperature becomes the common setting for all input signals.

1 Press COLOR button.
The "COLOR TEMPERATURE" OSD appears.

2 Adjust with the ☼ ←/→ and ◑ ↑/↓ buttons.

To select 5000K or 9300K
Press ☼ ←/→ buttons.
The selected color temperature is indicated in yellow.

← . . . to select 5000K
→ . . . to select 9300K

To obtain the desired color temperature between 5000K and 9300K
Press ◑ ↑/↓ buttons.

↑ . . . for higher temperature
↓ . . . for lower temperature

Your most recent adjusted color temperature will be recalled by pressing ◑ ↑/↓ button.
The factory presetting is 6500K for the user adjustable color temperature.

To erase the "COLOR TEMPERATURE" OSD, press the COLOR button again.
The "COLOR TEMPERATURE" OSD automatically disappears 20 seconds after you release the buttons.

Resetting

- Press the RESET button to recall the factory settings for brightness, contrast, horizontal and vertical size, center and pincushion for the mode currently in use.
- Press and hold the RESET button for 2 seconds to recall factory setting for all adjustments in all modes.

Entering New Timings

When using a video mode that is not one of the 6 factory preset modes, some fine tuning may be required to optimize the display to your preferences. Simply adjust the monitor according to the preceding adjustment instructions. The adjustments will be stored automatically and recalled whenever that mode is used.
A total of 10 user-defined modes can be stored in memory. If the 11th mode is entered, it will replace the first.

Power Saving Function

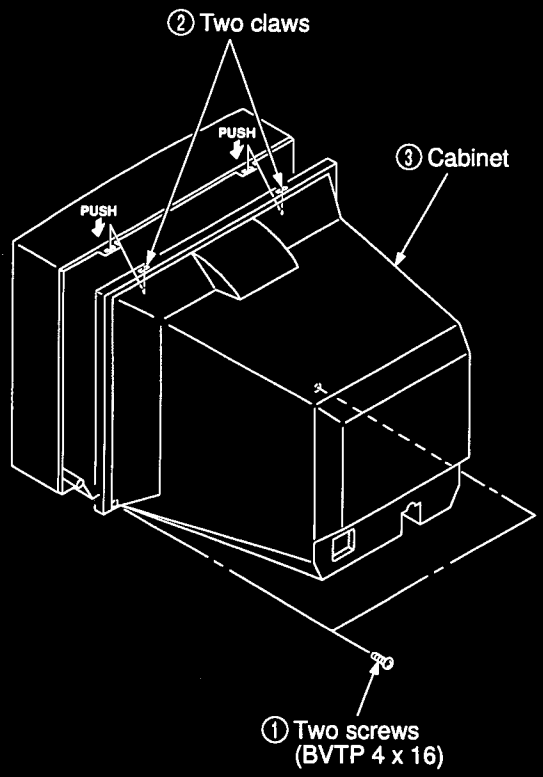
This monitor meets the power saving guidelines set by the EPA Energy Star Program as well as the more stringent NUTEK 803299 (TCO92) guidelines. It is capable of reduced power consumption when used with a computer equipped with Display Power Management Signaling (DPMS). By sensing the absence of the sync signal coming from the computer, it will reduce the power consumption as follows:

CAUTION: The Power Saving function will automatically put the monitor into Active-off state if the power switch is turned on without any video signal input. Once the horizontal and vertical syncs are sensed, the monitor will automatically return to its Normal operation state.

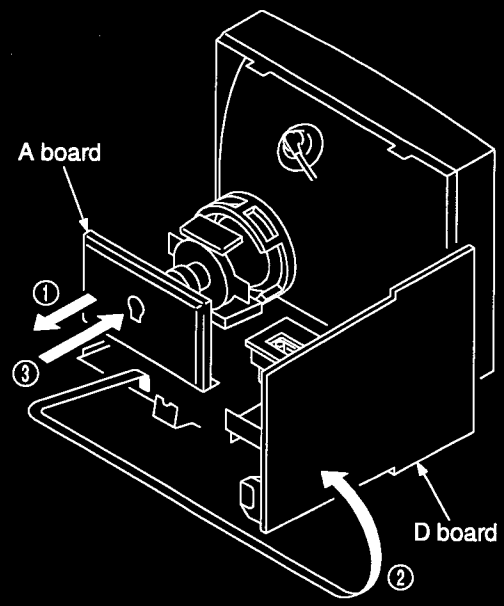
	State	Power consumption	Required resumption time	⏻ Power indicator	POWER SAVING indicator
1	Normal operation	100%	—	green on	off
2	Suspend (1st step of power saving)	approx. 10%	approx. 3 sec.	green on	orange on
3	Active-off (2nd step of power saving)	CPD-15SF2: approx. 7% CPD-17SF2: approx. 6%	approx. 10 sec.	off	orange on

SECTION 2
DISASSEMBLY

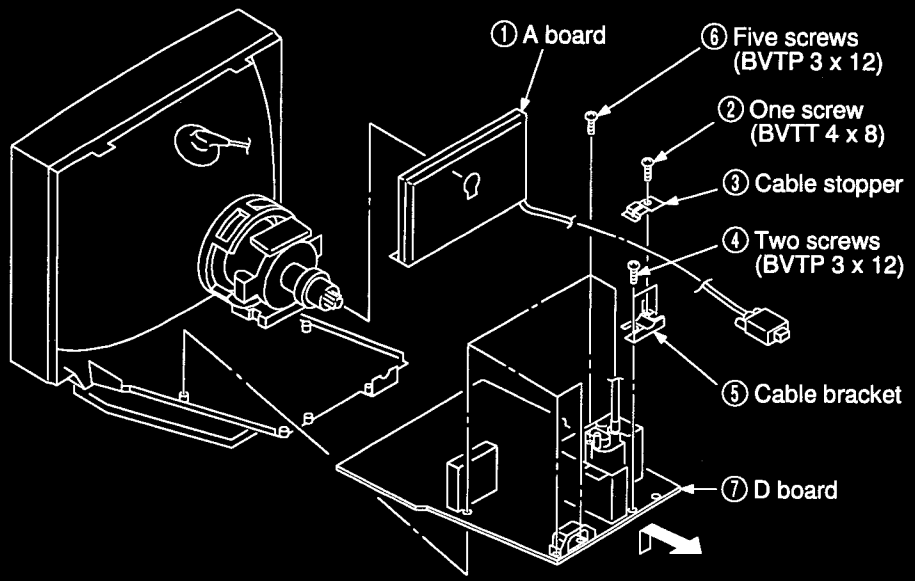
2-1. CABINET REMOVAL



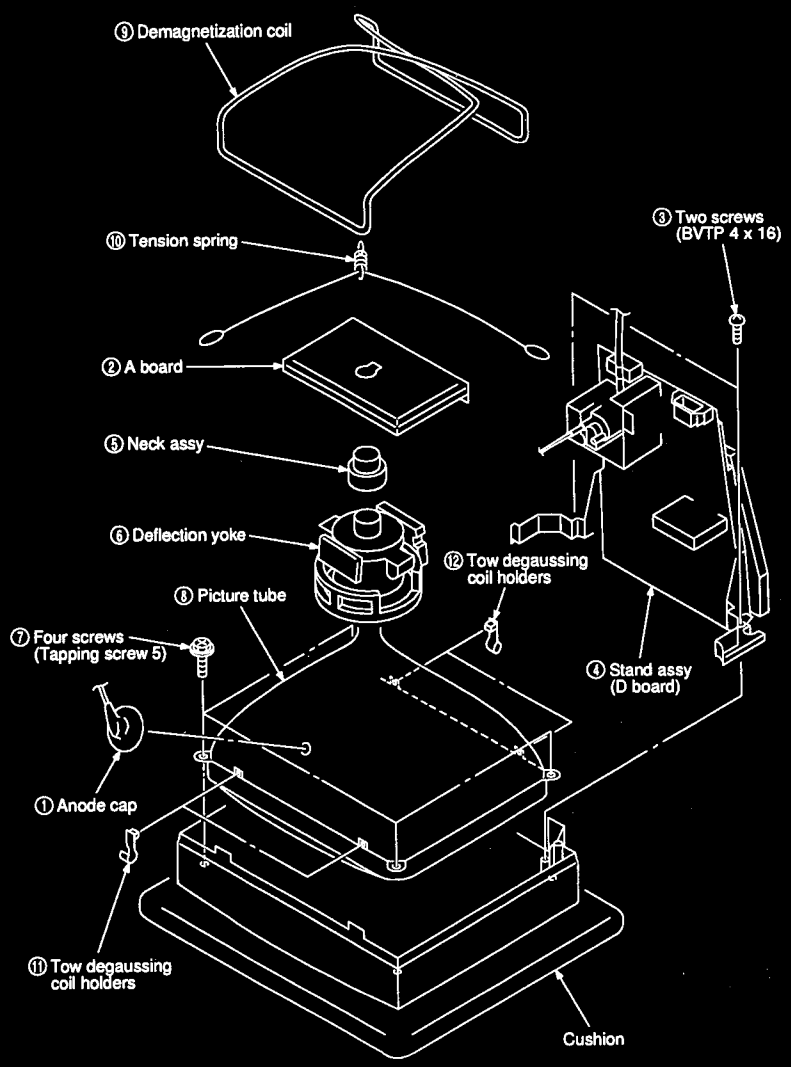
2-2. SERVICE POSITION



2-3. D BOARD REMOVAL



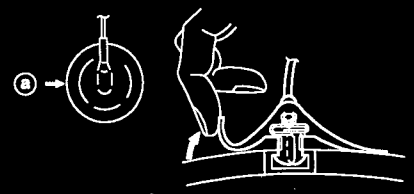
2-4. PICTURE TUBE REMOVAL



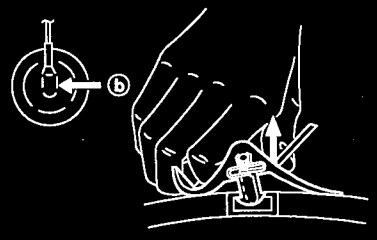
• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

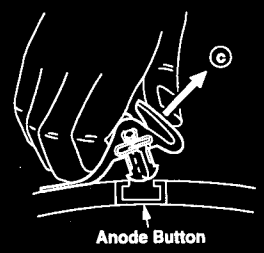
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



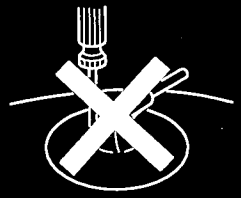
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with shartp shaped material!
② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3
SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (☒)
SCREEN	RV470

	Part Replaced (◪)
HV Regulator Circuit	D board IC501, FBT (T501), R457, R475, R487, R508, R509, R512, RV470, C509, C526, C541, C542, C580, C585
HV Hold-Down Circuit	D board IC500, IC501, D407, D515, R472, R492, R494, R496, R577, C402, C403, C404, FBT (T501) • Mounted D board
Beam Current Protector Circuit	D board IC500, IC501, D596, D597, R450, R459, R460, R498, R970 C528, C549, C938 • Mounted D board

※ Confirm one minute later turning on the power.

a) HV Regulator Check

1) Input white cross hatch signal. (fH = 63.9 kHz)
2) Minimum CONT and BRT controls.
3) Cut off Screen VR (G2).
4) Input voltage : 120 ± 2 VAC
5) Confirm that the voltage is within the voltage range shown below.
   Standard voltage: Less than 25.5 KV

b) HV Hold-Down Check

1) Using an external DC Power supply, apply the voltage shown below between cathode of D407 and GND, and confirm that the HV Hold-Down circuit works. (TV Raster disappears)
   Standard voltage: 31.6 ± 0.05 V DC
   Check Condition
   - Input voltage : 120 ± 2 V AC
   - Input signal : Any pattern (fH = 63.9 kHz)
   - Controls : CONT and BRT → Minimum
     : Screen VR (G2) → Cutoff

c) Beam Protector Check-1 (Software logic)

1) Using an external DC power supply, apply the voltage 7.00 ± 0.05 VDC between pin ⑪ of FBT (T501) and GND, and confirm that the voltage of both ends C938 is with in the voltage range shown below.
   Standard voltage: Less than 3.26 V DC
   Check Condition
   - Input voltage : 120 ± 2 V DC
   - Input signal : Any pattern (fH = 63.9 kHz)
   - Controls : CONT and BRT → Minimum
     : Screen VR (G2) → Cutoff

d) Beam Protector Check-2 (Hardware logic)

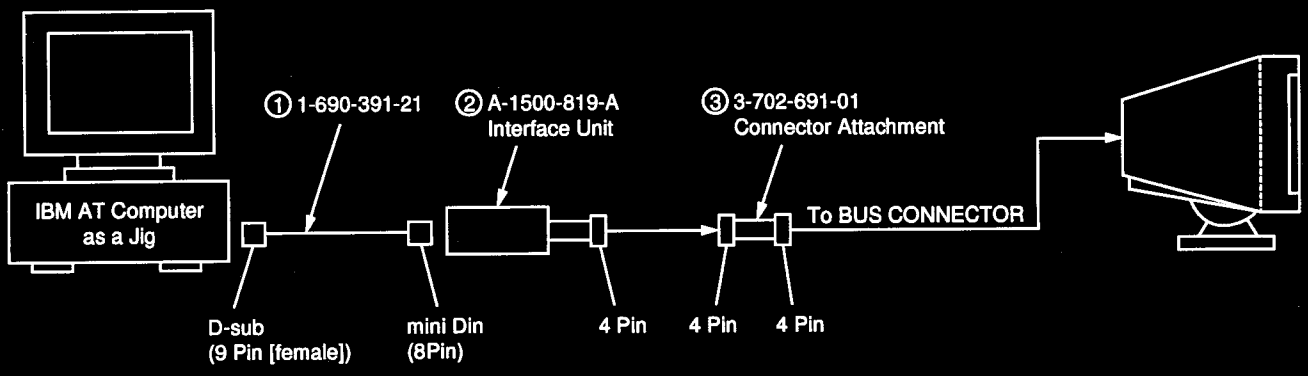
1) Applying specified external DC voltage 5.00 V DC at between C938 (Side of anode) and GND.
2) Confirm that the beam current protector circuit is to be activated when to make short between pin ⑪ of FBT (T501) and GND.

e) +B MAX Check

1) Input white cross hatch (fH = 63.9 kHz) signal.
2) Minimum CONT and BRT controls.
3) Input voltage : 120 ± 2 V AC
   Note: Use NF power supply or make sure that distortion factor is 3% or less.
4) Confirm that the voltage is within the voltage range shown below.
   Standard voltage : 140 ± 2 V

SECTION 4
ADJUSTMENTS

Connect the communication cable of the computer to the connector located on the D board on the monitor. Run the service software and then follow the instruction.



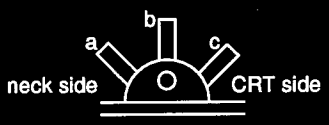
*The parts above (① ~ ③) are necessary for DAS adjustment.

● H.CENT Adjustment

(This should be performed before Convergence Adjustment.)

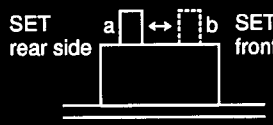
1. Receive the picture with maximum frequency. (Dot signal)
2. Adjust "BRT" to "255", "H.SIZE" to "–127".
3. Set the lever switch (S500) to the CRT neck side (position "a"). Select the minimum point of right and left difference of the raster at (S501). Then fine adjust H.CENT at switch (S500).

※ Correction distance change-over : S500



Shifting distance { a 2mm, b 4mm, c 5mm

※ Correction direction change-over : S501



moving direction { a left, b right

● Landing Rough Adjustment

1. Enter the full white signal.
2. Adjust the contrast to the maximum.
3. Make the screen monogreen.
4. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
5. Moving the DY forward, adjust so that an entire screen becomes monogreen.
6. Adjust the tilt of DY, and fix lightly with a clamp.

● Landing Fine Adjustment

1. Place the set in the Helmholtz coil.
2. Enter a green signal only.
3. Degauss the entire screen with hand-degausser.
4. Attach a wobbling coil to the specified position of CRT neck.
5. Attach a landing adjuster sensor on the CRT.
6. Using a landing checker, adjust the DY position, purity, tilt of DY.
7. Clamp the DY screw.
   Clamping torque : 22 ± 2 kgcm (2.2 ± 0.2 N·m)

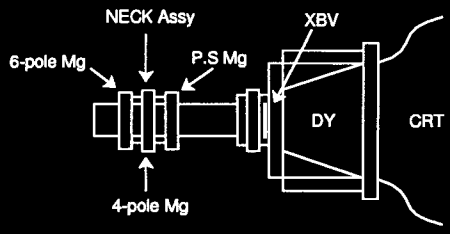
● Convergence Rough Adjustment

1. Enter the white crosshatch signal.
2. Adjust roughly the horizontal and vertical convergence at four-pole magnet.
3. Adjust roughly HMC and VMC at six-pole magnet.

● Convergence Fine Adjustment

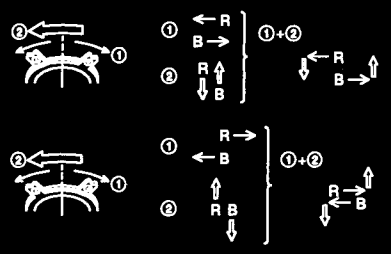
※ Set DY four-pole magnet to mechanical center before adjustment.

※ This should be prime mode.



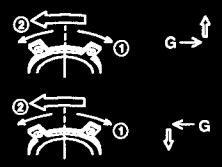
1. Receive R.B. cross-hatch.
2. Adjust H.STAT and V.STAT at four-pole magnet.

< 4 Pole Magnet >



3. Receive White cross-hatch.
4. Adjust HMC and VMC at six-pole magnet.

< 6 Pole Magnet >



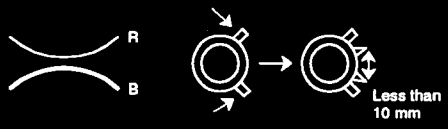
5. Receive R.B. cross-hatch.
6. Adjust XBV at DY four-pole magnet.

XBV Correction

ⓐ When

1) Open DY four-pole. (Do not move H.STAT)
2) Re-adjust V.STAT with four-pole at NECK Ass'y.

ⓑ When



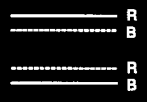
1) Close DY four-pole. (Do not move H.STAT)
2) Re-adjust V.STAT with four-pole at NECK Ass'y.

7. Repeat the above procedure so that R.G.B. will be on X. Y axis.
8. Adjust H.TILT by swinging the DY neck right and left.
9. Adjust XCV with XCV core.

XCV movement

10. Adjust V.TILT with TLV VR.

TLV movement

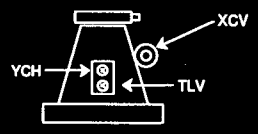


11. Adjust Y.CLOTH with YCH VR.

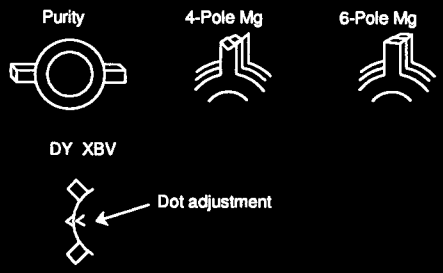
YCH movement

12. Paint lock the four-, six-pole Mg.

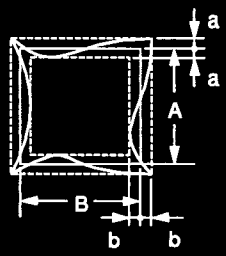
< VR Adjustment on DY >



< Zero Position NECK Ass'y >



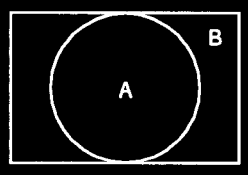
● Vertical and Horizontal Position and Size Specification



a < 2.5mm
b < 2.5mm

A	B
202	270

● Convergence Specification

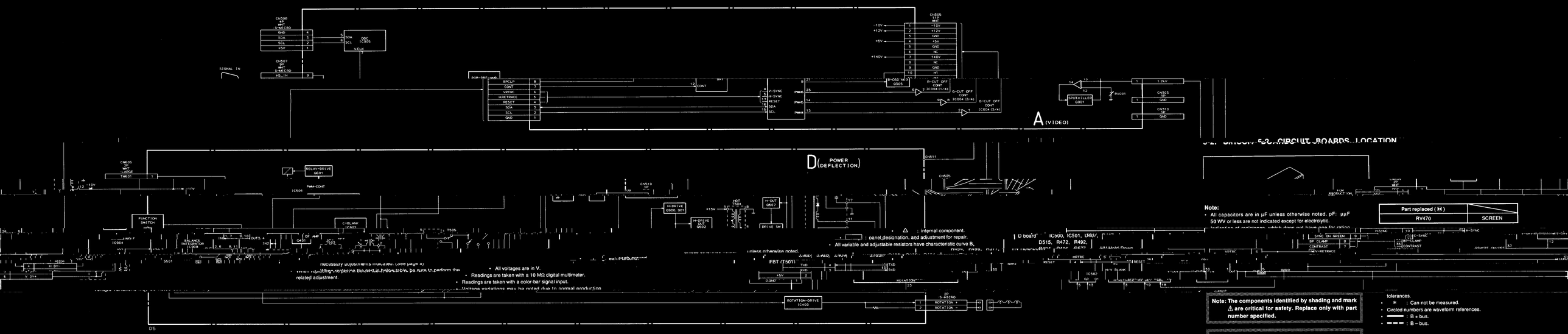


A ≦ 0.30mm
B ≦ 0.35mm

MEMO

SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM (with FRAME SCHEMATIC DIAGRAM)



(1) Schematic Diagram of D Board

● D BOARD
VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC400	1	1.5		2	3.8
	2	1.5		3	0.2
	3	–10.7		5	8.3
	4	1.5		10	4.2
				11	2.3
IC500	1	0.2		12	2.3
	2	5.2		13	7.5
	3	4.2		14	4.2
	7	3.6		15	3.8
				17	0.7
IC501	1	6.1		21	5.4
	2	9.2		22	2.3
	4	6.8		23	5.3
	5	*		25	5.3
	6	5.6		26	8.3
	8	7.2		27	3.7
	9	4.7		28	3.6
	10	5.7		29	4.7
	11	6.1		30	3.7
	12	6.1		31	3.8
	13	6.1		32	3.7
	14	6.3		33	4.7
	15	6.1		34	0
	16	7.9		35	0
	17	2.6		36	2.2
	18	4.7			

● D BOARD WAVEFORMS

①	②	③	④	⑤	⑥
1.000 Vp-p (H)	50.0 Vp-p (H)	1.5 Vp-p (V)	50.0 Vp-p (V)	10.0 Vp-p (H)	5.5 Vp-p (H)

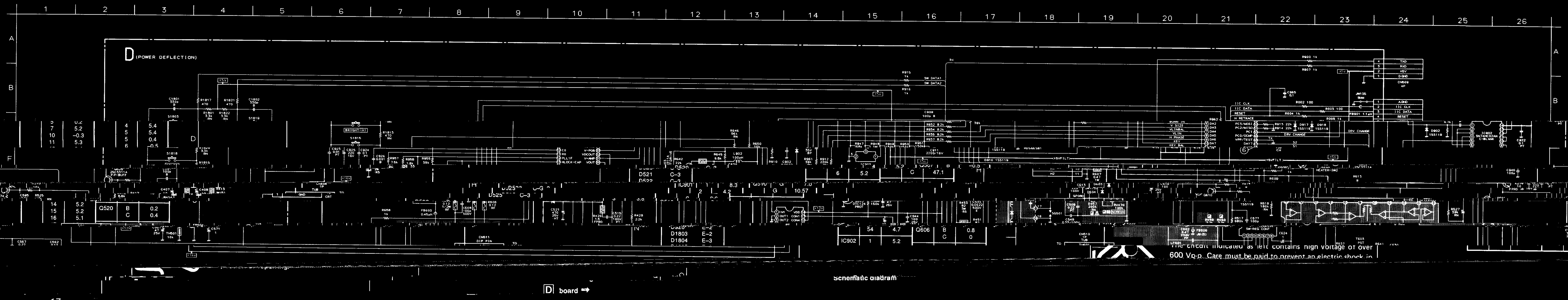
● D BOARD DIFFERENCE LIST (* MARK)

Ref. No.	CPD-15SF2	CPD-15SF2T
R627	—	100Ω
C623	—	0.01μF 50V

● D BOARD SEMICONDUCTOR LOCATION

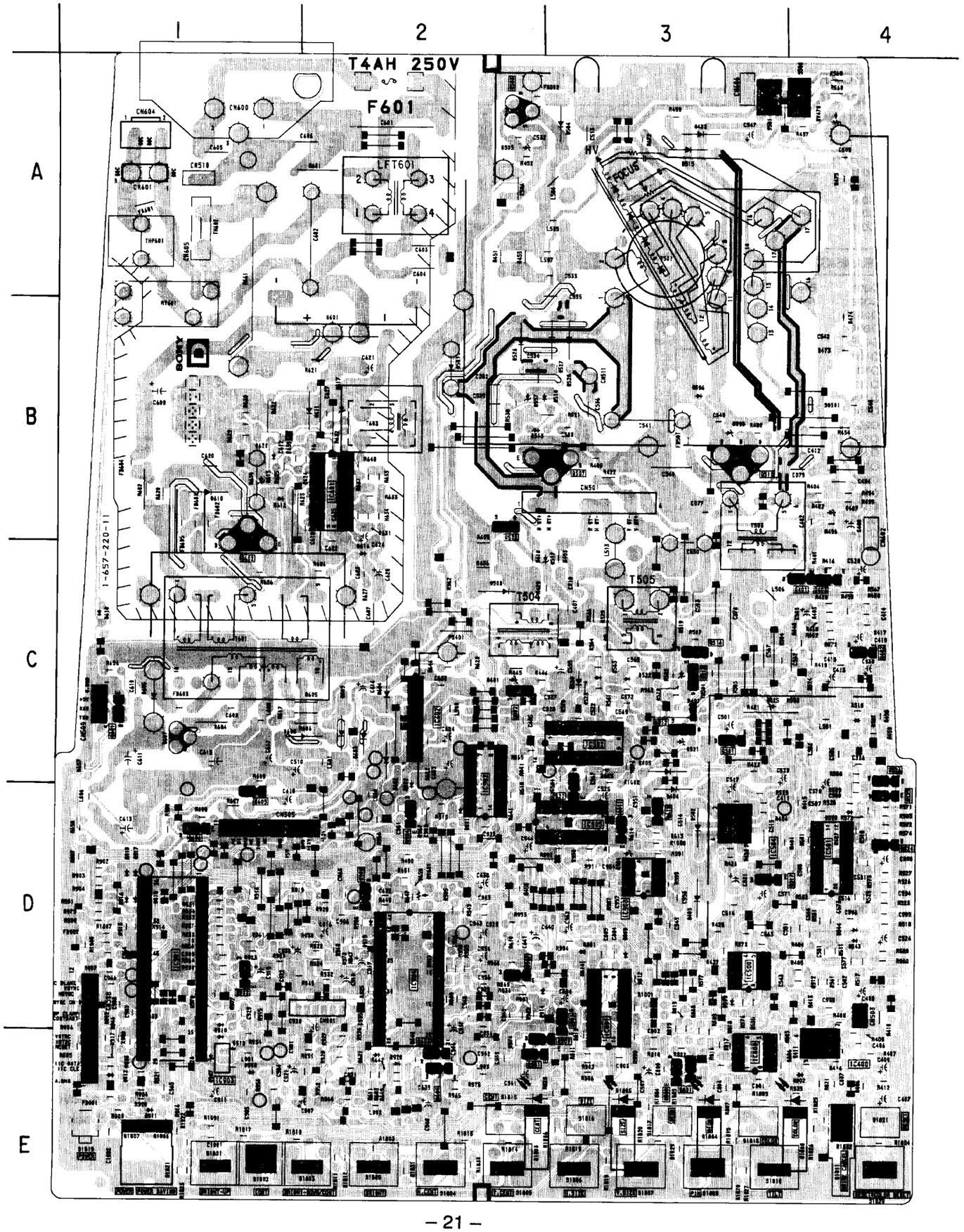
IC	
IC400	E–4
IC500	D–3
IC501	D–4
IC502	C–3
IC504	D–3
IC601	B–2
IC602	C–2
IC901	D–1
IC902	C–2
IC903	E–1
IC904	D–2
IC905	D–3
IC908	D–3

TRANSISTOR	
Q401	C–4
Q402	C–4
Q403	C–4
Q501	C–3
Q502	C–2
Q503	A–2
Q507	B–3
Q510	B–3
Q512	C–3
Q513	C–3
Q514	C–3



— D Board —

D [POWER DEFLECTION]



A [VIDEO]

— A Board —

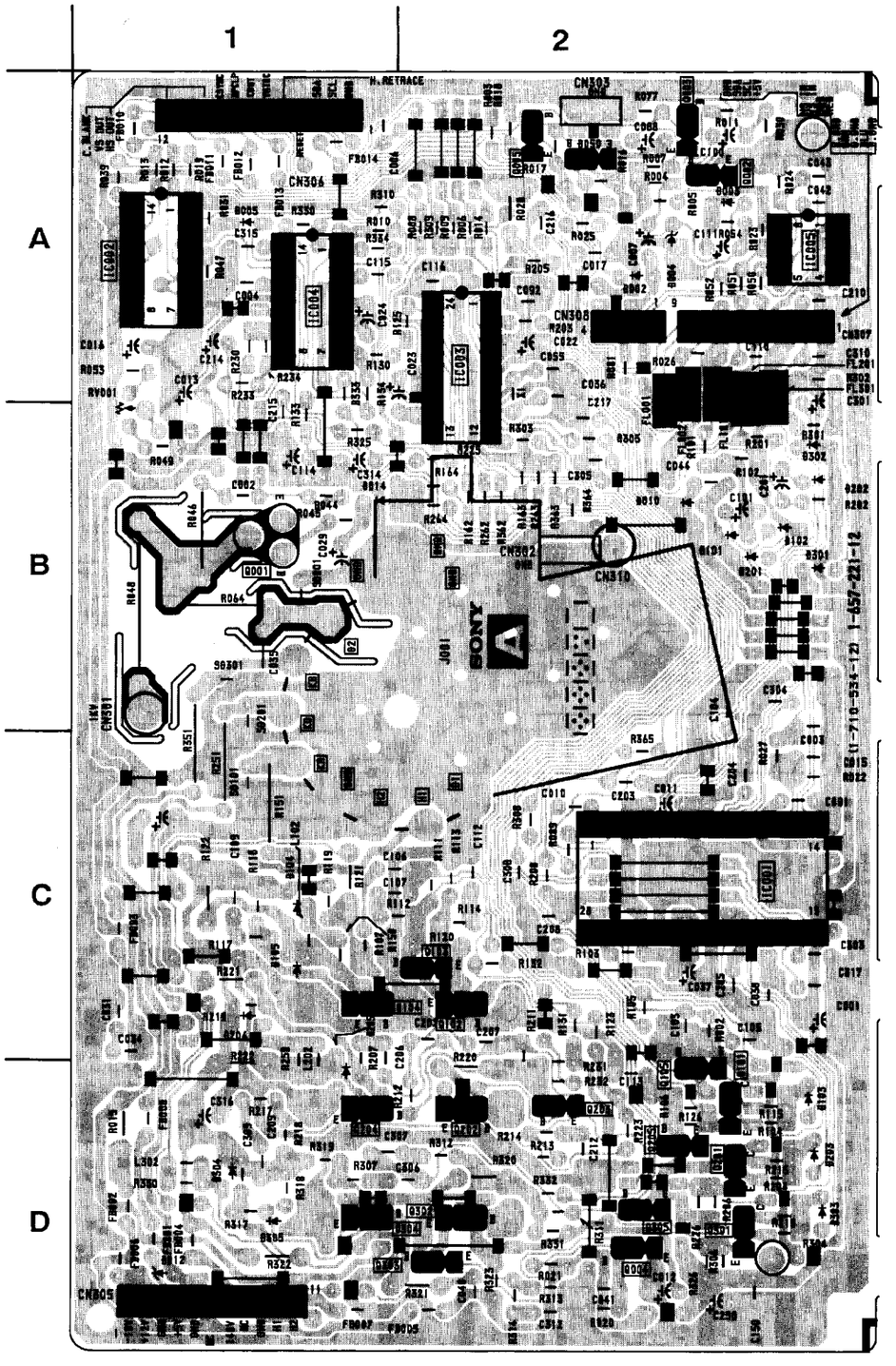
● A BOARD SEMICONDUCTOR LOCATION

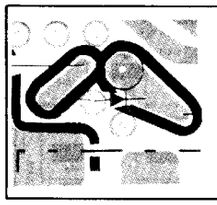
IC	
IC001	C–2
IC002	A–1
IC003	A–2
IC004	A–1
IC005	A–2

TRANSISTOR	
Q001	B–1
Q002	A–2
Q003	A–2
Q004	D–2
Q005	A–2
Q101	D–2
Q102	C–2
Q103	C–2
Q104	C–1
Q105	D–2
Q201	D–2
Q202	D–2
Q203	D–2
Q204	D–1
Q205	D–2
Q301	D–2
Q302	D–2
Q303	D–2
Q304	D–1
Q305	D–2

DIODE	
D002	A–2
D003	A–2
D004	A–2
D005	A–1
D010	B–2
D012	D–1
D014	B–1
D050	A–2
D101	B–2
D102	B–2
D103	D–2
D104	C–1
D105	C–1
D201	B–2
D202	B–2
D203	D–2
D204	C–1
D205	D–1
D301	B–2
D302	B–2
D303	D–2
D304	D–1
D305	D–1

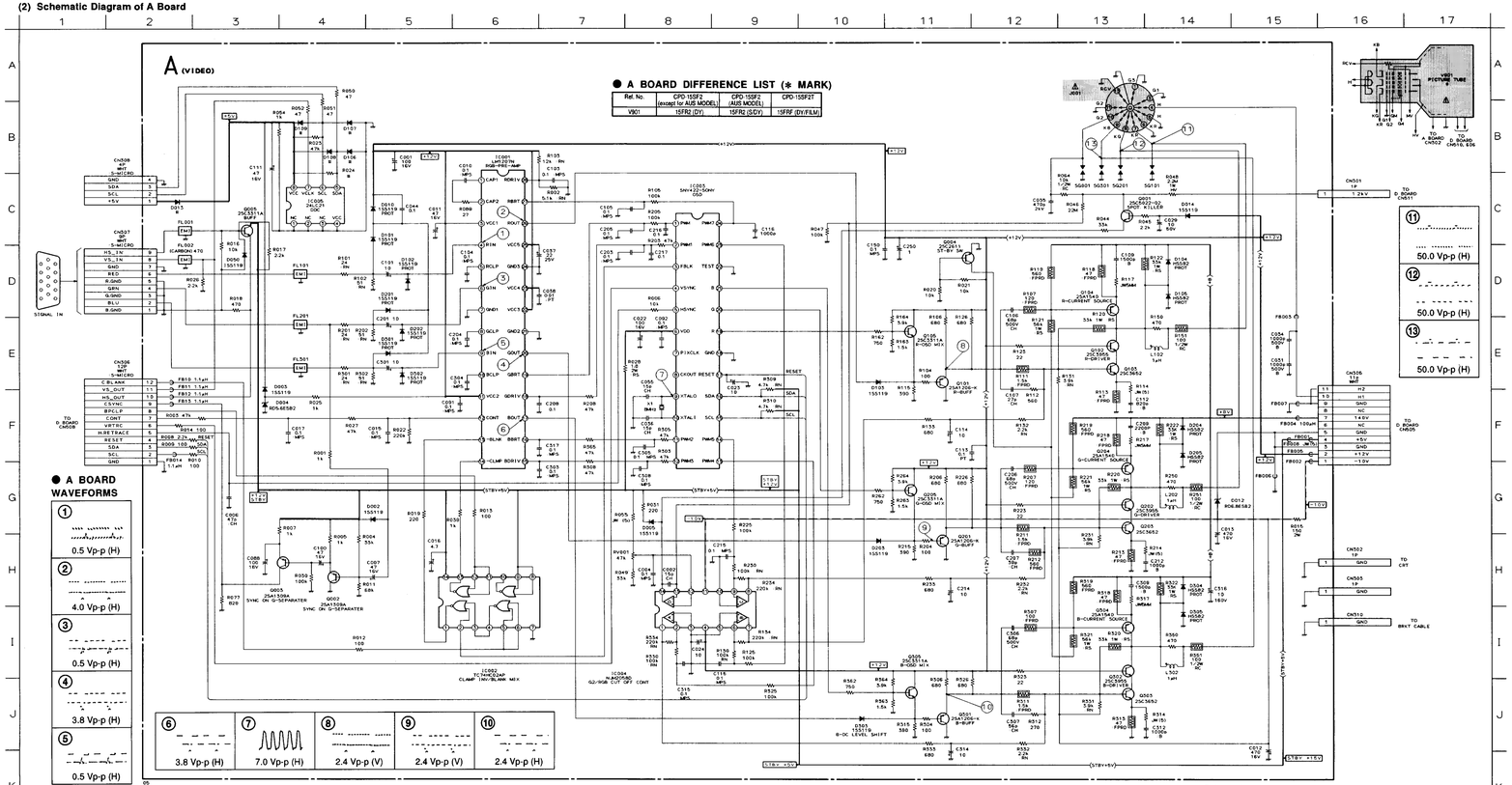
CRYSTAL	
X1	A–2





NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(2) Schematic Diagram of A Board



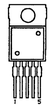
● A BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC001	1	5.5	Q001	B	11.6
	2	5.5		E	11.1
	4	2.9	Q002	B	3.6
	5	8.2		E	4.3
	6	2.9	Q003	B	4.3
	8	8.5		C	0.7
	9	2.9		E	4.5
	10	8.7	Q004	B	0.8
	12	2.7		C	0.2
	13	4.7	Q005	B	0
	14	5.2		C	5.2
	15	2.2		E	0
	16	1.8	Q101	B	2.2
	17	2.6		C	0
	18	2.9		E	3.0
	19	1.8	Q102	C	98.1
	20	2.7		E	11.6
	26	2.7	Q103	B	1.4
	27	1.8		C	11.6
	28	3.7		E	0.7
IC002	1	4.7	Q104	B	142.1
	2	0		C	98.1
	3	0.6		E	142.7
	4	0.6	Q105	B	1.5
	5	4.7		E	3.0
	6	4.7	Q201	B	2.2
	11	0.2		E	3.0
	12	0.2	Q202	C	104.9
	13	5.2		E	11.6
	14	5.2	Q203	B	1.4
IC003	1	1.8		C	11.6
	2	2.9		E	0.7
	3	0	Q204	B	142.1
	4	0.2		C	104.9
	5	0.4		E	142.8
	9	2.4	Q205	B	1.5
	10	2.2		E	2.1
	11	1.9	Q301	B	2.1
	12	2.3		E	2.9
	13	4.1	Q302	C	105.1
	14	4.2		E	11.6
	15	4.8	Q303	B	1.4
	16	4.9		C	11.6
	17	5.2		E	0.7
	19	0.2	Q304	B	142.1
	20	0.2		C	105.1
	23	3.6		E	142.8
	24	1.8	Q305	B	1.5
IC004	1	−4.4		E	2.1
	2	0			
	3	0			
	5	0			
	6	0			
	7	−3.8			
	8	−4.5			
	9	0			
	10	0			
	11	−6.9			
	12	3.8			
	13	3.8			
	14	5.9			
IC005	5	5.3			
	6	5.3			
	7	5.2			

5-4. SEMICONDUCTORS

HD74HC123AP

LA6500-FA



MC14066BCP
SN74HC02AN
NJM2058D

NJM2903D
TL082CP

TDA8172

PST600D-T

DTC124ES

IRFI9630G-LF
IRFPE40LF20
IRL1530G

IRFPC40

IRF614
2SK1904

2SA1175-HFE
2SA1309
2SC2001
2SC2001-LK

2SA1206-K
2SA1206-K1

2SA1540-DE

2SB1094-LK

2SC2611
2SC3955-DE

2SC2785-HFE
2SC3311A

2SK738

D8LC20U

EGP10D
RH-1A

EGP10G
RD10ES-B2
RD12ES-B2
RD15ES-B2
RD18ES-B2
RD27ES-B2
RD2.7ES-B2
RD4.7ES-B2
RD5.6ES-B1
RD5.6ES-B2
RD6.8ES-B2
1SS119

GBU4JL-6088

GP08D
GP08DPKG23
HSS82
RGP02-20EL-6394
UF3ML-6505
UF4007G23
1SS82
1SS83
3DL41A

SB340

SB340L-6489

U05G

5TUZ52

SEL1422G
SEL1922D-C

SECTION 6
EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked * * * are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

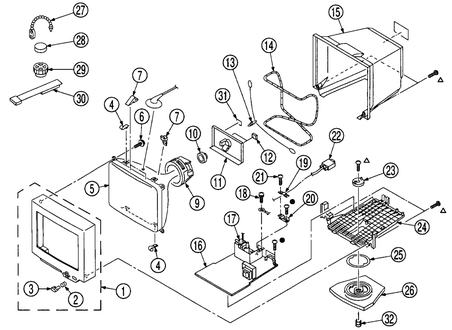
NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

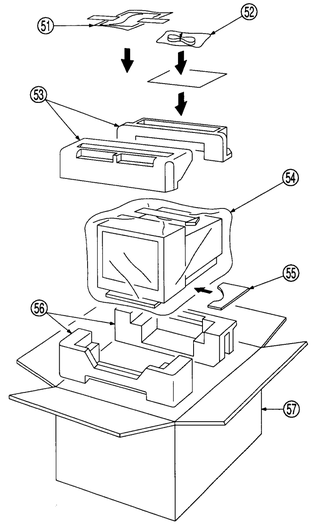
6-1. CHASSIS

● 7-685-648-79 SCREW +BVTP 3X12
△ 7-685-663-79 SCREW +BVTP 4X16



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4032-970-1	BEZEL ASSY	2, 3
2	3-571-801-01	SPRING, COMPRESSION	
3	4-045-116-01	BUTTON, POWER	
4	4-045-123-01	HOLDER, DEGAUSSING COIL	
5	⚠8-734-826-05	PICTURE TUBE 15FR2 (DY) (M36LDJ15X) (except for AUS, 15SF2T)	
5	⚠8-734-829-05	PICTURE TUBE 15FR2 (S/DY) (M36LDJ15X) (AUS)	
5	⚠8-734-830-05	PICTURE TUBE 15FRF (DY/FILM) (M36LDJ15X) (15SF2T)	
6	4-365-808-01	SCREW (5), TAPPING	
7	4-050-492-01	SPACER, DY	
9	⚠8-451-469-21	DEFLECTION YOKE Y15FRF2M2	
10	⚠1-452-756-11	NECK ASSY, PICTURE TUBE (NA293)	
11	*A-1292-901-B	A BOARD, COMPLETE (for Japan-made set]	
11	*A-1297-587-B	A BOARD, COMPLETE (US/CND)	
11	*A-1297-626-B	A BOARD, COMPLETE [for UK-made set]	
12	*4-050-329-01	CUSHION, (A)	
13	4-369-318-00	SPRING, TENSION	
14	⚠1-409-799-11	COIL, DEMAGNETIZATION	
15	4-045-113-01	CABINET	
16	*A-1346-408-A	D BOARD, COMPLETE (for Japan-made set]	
16	*A-1346-411-A	D BOARD, COMPLETE (US/CND)	
16	*A-1346-419-A	D BOARD, COMPLETE (AEP [for UK-made set])	
16	*A-1346-447-A	D BOARD, COMPLETE (15SF2T)	
17	⚠X-4033-083-1	TRANSFORMER ASSY, FLYBACK (NX-4130U/J1E)	
18	4-389-025-01	SCREW (M4X8) (EXT TOOTH WASHER)	
19	*4-045-131-01	STOPPER, CABLE	
20	*4-045-130-01	BRACKET, CABLE	
21	4-381-962-11	SCREW +BVTT 4X8 (S)	
22	1-775-535-21	CABLE ASSY	
23	4-045-121-01	STOPPER (A), STAND	
24	4-045-114-01	COVER, BOTTOM (except for US/CND)	
24	4-045-114-11	COVER, BOTTOM (US/CND)	
25	4-045-122-01	RING, TILT SWIVEL	
26	X-4032-051-1	BASE ASSY, STAND	
27	4-368-870-00	CLIP, LEAD WIRE	
28	1-452-032-00	MAGNET, DISC 10mm ϕ	
29	1-452-094-00	MAGNET, ROTATABLE DISK 15mm ϕ	
30	X-403-058-41	PERMALLOY ASSY, CONVERGENCE	
31	*4-046-834-01	LABEL, X-RAY (except for [for UK-made set])	
31	*4-050-730-01	LABEL, X-RAY [for UK-made set]	
32	4-048-148-01	STOPER (B)	

6-2. PACKING MATERIALS



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	3-800-818-11	MANUAL, INSTRUCTION (15SF2 [AEP, ES, AUS])	
51	3-800-818-21	MANUAL, INSTRUCTION (15SF2 [US/CND])	
51	3-800-818-31	MANUAL, INSTRUCTION (15SF2T)	
52	1-765-717-11	CORD SET, POWER (except for US/CND)	
52	1-765-718-11	CORD SET, POWER (US/CND)	
53	*4-045-089-01	CUSHION (UPPER) (ASSY)	
54	*4-041-927-11	BAG, POLYETHYLENE (except for US/CND)	
54	4-380-340-01	BAG, POLYETHYLENE (US/CND)	
55	*4-045-088-01	PAT, TILT FIXED	
56	*4-045-090-01	CUSHION (LOWER) (ASSY)	
57	*4-050-991-01	INDIVIDUAL CARTON (US/CND)	
57	*4-050-995-01	INDIVIDUAL CARTON (15SF2T)	
57	*4-050-996-01	INDIVIDUAL CARTON (AEP [for Japan-made set], ES, AUS)	
57	*4-050-997-01	INDIVIDUAL CARTON (AEP [for UK-made set])	

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1292-901-B	A BOARD, COMPLETE			
		**********			
		[for Japan-made set]			
	*A-1297-587-B	A BOARD, COMPLETE (US/CND)			
		**********			
	*A-1297-626-B	A BOARD, COMPLETE [for UK-made set]			
		**********			
	*4-045-124-01	COVER, VIDEO			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		(Q102, Q104, Q202, Q204, Q302, Q304)			
	CAPACITOR				
C001	1-126-933-11	ELECT	100µF	20% 16V	
C002	1-102-951-00	CERAMIC	15pF	5% 50V	
C004	1-136-165-00	FILM	0.1µF	5% 50V	
C006	1-101-880-00	CERAMIC	47pF	5% 50V	
C007	1-126-967-11	ELECT	47µF	20% 16V	
C010	1-136-165-00	FILM	0.1µF	5% 50V	
C011	1-126-967-11	ELECT	47µF	20% 16V	
C012	1-126-935-11	ELECT	470µF	20% 16V	
C013	1-126-935-11	ELECT	470µF	20% 16V	
C015	1-136-165-00	FILM	0.1µF	5% 50V	
C016	1-124-927-11	ELECT	4.7µF	20% 50V	
C017	1-136-165-00	FILM	0.1µF	5% 50V	
C022	1-126-933-11	ELECT	100µF	20% 16V	
C023	1-126-964-11	ELECT	10µF	20% 50V	
C024	1-126-964-11	ELECT	10µF	20% 50V	
C029	1-126-964-11	ELECT	10µF	20% 50V	
C031	1-162-318-11	CERAMIC	0.001µF	10% 500V	
C034	1-162-318-11	CERAMIC	0.001µF	10% 500V	
C035	1-162-134-11	CERAMIC	470pF	10% 2KV	
C036	1-102-951-00	CERAMIC	15pF	5% 50V	
C037	1-128-551-11	ELECT	22µF	20% 25V	
C038	1-137-370-11	FILM	0.01µF	5% 50V	
C044	1-136-165-00	FILM	0.1µF	5% 50V	
C055	1-102-951-00	CERAMIC	15pF	5% 50V	
C088	1-126-933-11	ELECT	100µF	20% 16V	
C091	1-136-165-00	FILM	0.1µF	5% 50V	
C092	1-136-165-00	FILM	0.1µF	5% 50V	
C100	1-126-967-11	ELECT	47µF	20% 16V	
C101	1-126-964-11	ELECT	10µF	20% 50V	
C103	1-136-165-00	FILM	0.1µF	5% 50V	
C104	1-136-165-00	FILM	0.1µF	5% 50V	
C105	1-136-165-00	FILM	0.1µF	5% 50V	
C106	1-107-608-11	CERAMIC	68pF	5% 500V	
C107	1-102-961-00	CERAMIC	27pF	5% 50V	
C109	1-102-119-00	CERAMIC	0.0015µF	10% 50V	
C111	1-126-967-11	ELECT	47µF	20% 16V	
C112	1-102-117-00	CERAMIC	820pF	10% 50V	
C113	1-136-165-00	FILM	0.1µF	5% 50V	
C114	1-126-964-11	ELECT	10µF	20% 50V	
C115	1-136-165-00	FILM	0.1µF	5% 50V	
C116	1-102-074-00	CERAMIC	0.001µF	10% 50V	
C150	1-136-165-00	FILM	0.1µF	5% 50V	
C201	1-126-964-11	ELECT	10µF	20% 50V	
C203	1-136-165-00	FILM	0.1µF	5% 50V	
C204	1-136-165-00	FILM	0.1µF	5% 50V	
C205	1-136-165-00	FILM	0.1µF	5% 50V	
C206	1-107-608-11	CERAMIC	68pF	5% 500V	
C207	1-102-965-00	CERAMIC	39pF	5% 50V	
C208	1-136-165-00	FILM	0.1µF	5% 50V	
C209	1-102-121-00	CERAMIC	0.0022µF	10% 50V	
C212	1-102-074-00	CERAMIC	0.001µF	10% 50V	
C214	1-126-964-11	ELECT	10µF	20% 50V	
C215	1-136-165-00	FILM	0.1µF	5% 50V	
C216	1-136-165-00	FILM	0.1µF	5% 50V	
C217	1-136-165-00	FILM	0.1µF	5% 50V	
C250	1-124-903-11	ELECT	1µF	20% 50V	
C301	1-126-964-11	ELECT	10µF	20% 50V	
C303	1-136-165-00	FILM	0.1µF	5% 50V	
C304	1-136-165-00	FILM	0.1µF	5% 50V	
C305	1-136-165-00	FILM	0.1µF	5% 50V	
C306	1-107-608-11	CERAMIC	68pF	5% 500V	
C307	1-101-884-00	CERAMIC	56pF	5% 50V	
C308	1-136-165-00	FILM	0.1µF	5% 50V	
C309	1-102-119-00	CERAMIC	0.0015µF	10% 50V	
C312	1-102-074-00	CERAMIC	0.001µF	10% 50V	
C314	1-126-964-11	ELECT	10µF	20% 50V	
C315	1-136-165-00	FILM	0.1µF	5% 50V	
C316	1-107-943-11	ELECT	10µF	20% 160V	
C317	1-136-165-00	FILM	0.1µF	5% 50V	
	CONNECTOR				
CN301	*1-506-108-41	PIN, CONNECTOR (TERMINAL PIN)			

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Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
CN302	1-695-915-11	TAB (CONTACT)			
CN303	1-695-915-11	TAB (CONTACT)			
CN305*	1-564-514-11	PLUG, CONNECTOR	11P		
CN306*	1-564-515-11	PLUG, CONNECTOR	12P		
CN307*	1-564-512-11	PLUG, CONNECTOR	9P		
CN308*	1-564-507-11	PLUG, CONNECTOR	4P		
		DIODE			
D002	8-719-911-19	DIODE 1SS119-25			
D003	8-719-911-19	DIODE 1SS119-25			
D004	8-719-109-89	ZENER DIODE RD5.6ESB2			
D005	8-719-911-19	DIODE 1SS119-25			
D010	8-719-911-19	DIODE 1SS119-25			
D012	8-719-109-97	ZENER DIODE RD6.8ESB2			
D014	8-719-911-19	DIODE 1SS119-25			
D050	8-719-911-19	DIODE 1SS119-25			
D101	8-719-911-19	DIODE 1SS119-25			
D102	8-719-911-19	DIODE 1SS119-25			
D103	8-719-911-19	DIODE 1SS119-25			
D104	8-719-970-83	DIODE HSS82			
D105	8-719-970-83	DIODE HSS82			
D201	8-719-911-19	DIODE 1SS119-25			
D202	8-719-911-19	DIODE 1SS119-25			
D203	8-719-911-19	DIODE 1SS119-25			
D204	8-719-970-83	DIODE HSS82			
D205	8-719-970-83	DIODE HSS82			
D301	8-719-911-19	DIODE 1SS119-25			
D302	8-719-911-19	DIODE 1SS119-25			
D303	8-719-911-19	DIODE 1SS119-25			
D304	8-719-970-83	DIODE HSS82			
D305	8-719-970-83	DIODE HSS82			
		FERRITE BEAD			
FB001	1-412-911-11	INDUCTOR, FERRITE BEAD			
FB002	1-412-911-11	INDUCTOR, FERRITE BEAD			
FB003	1-412-911-11	INDUCTOR, FERRITE BEAD			
FB004	1-412-537-31	INDUCTOR			100µH
FB005	1-412-911-11	INDUCTOR, FERRITE BEAD			
FB006	1-412-911-11	INDUCTOR, FERRITE BEAD			
FB007	1-412-911-11	INDUCTOR, FERRITE BEAD			
FB008	1-535-303-00	LEAD, JUMPER (5.0MM)			
FB010	1-410-397-21	FERRITE BEAD INDUCTOR			1.1µH
FB011	1-410-397-21	FERRITE BEAD INDUCTOR			1.1µH
FB012	1-410-397-21	FERRITE BEAD INDUCTOR			1.1µH
FB013	1-410-397-21	FERRITE BEAD INDUCTOR			1.1µH
FB014	1-410-397-21	FERRITE BEAD INDUCTOR			1.1µH
		FILTER			
FL001	1-421-995-11	FILTER, NOISE			
FL002	1-249-413-11	CARBON	470	5%	1/4W
FL101	1-239-973-11	FILTER, EMI			
FL201	1-239-973-11	FILTER, EMI			
FL301	1-239-973-11	FILTER, EMI			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		IC			
IC001	8-759-335-25	IC LM1207			
IC002	8-759-232-03	IC TC74HC02AP			
IC003	8-759-348-09	IC SNY422-SONY			
IC004	8-759-711-28	IC NJM2058D			
IC005	8-759-338-37	IC 24LC21I/P			
		JACK			
J001	⚠ 1-251-335-11	SOCKET, PICTURE TUBE			
		COIL			
L102	1-414-142-11	INDUCTOR			1µH
L202	1-414-142-11	INDUCTOR			1µH
L302	1-414-142-11	INDUCTOR			1µH
		TRANSISTOR			
Q001	8-729-032-61	TRANSISTOR 2SC5022-02			
Q002	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q003	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q004	8-729-326-11	TRANSISTOR 2SC2611			
Q005	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q101	8-729-103-19	TRANSISTOR 2SA1206-K1			
Q102	8-729-019-70	TRANSISTOR 2SC3955-DE			
Q103	8-729-031-84	TRANSISTOR 2SC3652			
Q104	8-729-823-07	TRANSISTOR 2SA1540-DE			
Q105	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q201	8-729-103-19	TRANSISTOR 2SA1206-K1			
Q202	8-729-019-70	TRANSISTOR 2SC3955-DE			
Q203	8-729-031-84	TRANSISTOR 2SC3652			
Q204	8-729-823-07	TRANSISTOR 2SA1540-DE			
Q205	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q301	8-729-103-19	TRANSISTOR 2SA1206-K1			
Q302	8-729-019-70	TRANSISTOR 2SC3955-DE			
Q303	8-729-031-84	TRANSISTOR 2SC3652			
Q304	8-729-823-07	TRANSISTOR 2SA1540-DE			
Q305	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		RESISTOR			
R001	1-249-417-11	CARBON	1K	5%	1/4W
R002	1-215-438-00	METAL	5.1K	1%	1/4W
R003	1-249-437-11	CARBON	47K	5%	1/4W
R004	1-249-435-11	CARBON	33K	5%	1/4W
R005	1-249-417-11	CARBON	1K	5%	1/4W
R006	1-249-429-11	CARBON	10K	5%	1/4W
R007	1-249-417-11	CARBON	1K	5%	1/4W
R008	1-249-421-11	CARBON	2.2K	5%	1/4W
R009	1-247-807-31	CARBON	100	5%	1/4W
R010	1-247-807-31	CARBON	100	5%	1/4W
R011	1-249-439-11	CARBON	68K	5%	1/4W
R012	1-247-807-31	CARBON	100	5%	1/4W
R013	1-247-807-31	CARBON	100	5%	1/4W
R014	1-247-807-31	CARBON	100	5%	1/4W
R015	1-215-887-00	METAL OXIDE	150	5%	2W F

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R016	1-249-429-11	CARBON	10K	5% 1/4W	
R017	1-249-421-11	CARBON	2.2K	5% 1/4W	
R018	1-249-413-11	CARBON	470	5% 1/4W	
R019	1-247-815-91	CARBON	220	5% 1/4W	
R020	1-249-429-11	CARBON	10K	5% 1/4W	
R021	1-249-429-11	CARBON	10K	5% 1/4W	
R022	1-247-887-00	CARBON	220K	5% 1/4W	
R023	1-249-437-11	CARBON	47K	5% 1/4W	
R025	1-249-417-11	CARBON	1K	5% 1/4W	
R026	1-249-421-11	CARBON	2.2K	5% 1/4W	
R027	1-249-437-11	CARBON	47K	5% 1/4W	
R028	1-216-372-11	METAL OXIDE	1.8	5% 2W	F
R030	1-249-441-11	CARBON	100K	5% 1/4W	
R031	1-247-815-91	CARBON	220	5% 1/4W	
R039	1-249-417-11	CARBON	1K	5% 1/4W	
R044	1-249-435-11	CARBON	33K	5% 1/4W	
R045	1-249-421-11	CARBON	2.2K	5% 1/4W	
R046	1-219-621-91	METAL	22M	10% 1/4W	
R047	1-249-441-11	CARBON	100K	5% 1/4W	
R048	1-211-885-21	METAL	2.2M	5% 1W	
R049	1-249-435-11	CARBON	33K	5% 1/4W	
R050	1-249-401-11	CARBON	47	5% 1/4W	
R051	1-249-401-11	CARBON	47	5% 1/4W	
R052	1-249-401-11	CARBON	47	5% 1/4W	
R054	1-249-417-11	CARBON	1K	5% 1/4W	
R064	1-202-830-00	SOLID	10K	20% 1/2W	
R077	1-249-416-11	CARBON	820	5% 1/4W	
R089	1-249-398-11	CARBON	27	5% 1/4W	
R101	1-215-382-00	METAL	24	1% 1/4W	
R102	1-215-390-00	METAL	51	1% 1/4W	
R103	1-215-447-00	METAL	12K	1% 1/4W	
R104	1-247-807-31	CARBON	100	5% 1/4W	
R105	1-249-441-11	CARBON	100K	5% 1/4W	
R106	1-249-415-11	CARBON	680	5% 1/4W	
R107	1-249-406-11	CARBON	120	5% 1/4W	F
R111	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R112	1-249-414-11	CARBON	560	5% 1/4W	
R113	1-249-401-11	CARBON	47	5% 1/4W	F
R115	1-249-412-11	CARBON	390	5% 1/4W	
R118	1-249-401-11	CARBON	47	5% 1/4W	F
R119	1-249-414-11	CARBON	560	5% 1/4W	F
R120	1-215-878-00	METAL OXIDE	33K	5% 1W	F
R121	1-216-443-11	METAL OXIDE	56K	5% 1W	F
R122	1-215-878-00	METAL OXIDE	33K	5% 1W	F
R123	1-247-791-91	CARBON	22	5% 1/4W	
R125	1-249-441-11	CARBON	100K	5% 1/4W	
R126	1-249-415-11	CARBON	680	5% 1/4W	
R130	1-215-469-00	METAL	100K	1% 1/4W	
R131	1-215-435-00	METAL	3.9K	1% 1/4W	
R132	1-215-429-00	METAL	2.2K	1% 1/4W	
R133	1-249-415-11	CARBON	680	5% 1/4W	
R134	1-215-477-00	METAL	220K	1% 1/4W	
R150	1-249-413-11	CARBON	470	5% 1/4W	
R151	1-202-549-00	SOLID	100	20% 1/2W	
R162	1-215-418-00	METAL	750	1% 1/4W	
R163	1-249-419-11	CARBON	1.5K	5% 1/4W	
R164	1-249-424-11	CARBON	3.9K	5% 1/4W	
R201	1-215-382-00	METAL	24	1% 1/4W	
R202	1-215-390-00	METAL	51	1% 1/4W	
R203	1-249-437-11	CARBON	47K	5% 1/4W	
R204	1-247-807-31	CARBON	100	5% 1/4W	
R205	1-249-441-11	CARBON	100K	5% 1/4W	
R206	1-249-415-11	CARBON	680	5% 1/4W	
R207	1-249-406-11	CARBON	120	5% 1/4W	F
R208	1-249-437-11	CARBON	47K	5% 1/4W	
R211	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R212	1-249-414-11	CARBON	560	5% 1/4W	F
R213	1-249-401-11	CARBON	47	5% 1/4W	F
R215	1-249-412-11	CARBON	390	5% 1/4W	
R218	1-249-401-11	CARBON	47	5% 1/4W	F
R219	1-249-414-11	CARBON	560	5% 1/4W	F
R220	1-215-878-00	METAL OXIDE	33K	5% 1W	F
R221	1-216-443-11	METAL OXIDE	56K	5% 1W	F
R222	1-215-878-00	METAL OXIDE	33K	5% 1W	F
R223	1-247-791-91	CARBON	22	5% 1/4W	
R225	1-249-441-11	CARBON	100K	5% 1/4W	
R226	1-249-415-11	CARBON	680	5% 1/4W	
R230	1-215-469-00	METAL	100K	1% 1/4W	
R231	1-215-435-00	METAL	3.9K	1% 1/4W	
R232	1-215-429-00	METAL	2.2K	1% 1/4W	
R233	1-249-415-11	CARBON	680	5% 1/4W	
R234	1-215-477-00	METAL	220K	1% 1/4W	
R250	1-249-413-11	CARBON	470	5% 1/4W	
R251	1-202-549-00	SOLID	100	20% 1/2W	
R262	1-215-418-00	METAL	750	1% 1/4W	
R263	1-249-419-11	CARBON	1.5K	5% 1/4W	
R264	1-249-424-11	CARBON	3.9K	5% 1/4W	
R301	1-215-382-00	METAL	24	1% 1/4W	
R302	1-215-390-00	METAL	51	1% 1/4W	
R303	1-249-437-11	CARBON	47K	5% 1/4W	
R304	1-247-807-31	CARBON	100	5% 1/4W	
R305	1-249-437-11	CARBON	47K	5% 1/4W	
R306	1-249-415-11	CARBON	680	5% 1/4W	
R307	1-249-405-11	CARBON	100	5% 1/4W	F
R308	1-249-437-11	CARBON	47K	5% 1/4W	
R309	1-215-437-00	METAL	4.7K	1% 1/4W	
R310	1-215-437-00	METAL	4.7K	1% 1/4W	
R311	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R312	1-249-410-11	CARBON	270	5% 1/4W	
R313	1-249-401-11	CARBON	47	5% 1/4W	F
R315	1-249-412-11	CARBON	390	5% 1/4W	
R318	1-249-401-11	CARBON	47	5% 1/4W	F
R319	1-249-414-11	CARBON	560	5% 1/4W	F
R320	1-215-878-00	METAL OXIDE	33K	5% 1W	F
R321	1-216-443-11	METAL OXIDE	56K	5% 1W	F
R322	1-215-878-00	METAL OXIDE	33K	5% 1W	F
R323	1-247-791-91	CARBON	22	5% 1/4W	
R325	1-249-441-11	CARBON	100K	5% 1/4W	
R326	1-249-415-11	CARBON	680	5% 1/4W	
R330	1-215-469-00	METAL	100K	1% 1/4W	
R331	1-215-435-00	METAL	3.9K	1% 1/4W	
R332	1-215-429-00	METAL	2.2K	1% 1/4W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R333	1-249-415-11	CARBON	680	5%	1/4W
R334	1-215-477-00	METAL	220K	1%	1/4W
R350	1-249-413-11	CARBON	470	5%	1/4W
R351	1-202-549-00	SOLID	100	20%	1/2W
R362	1-215-418-00	METAL	750	1%	1/4W
R363	1-249-419-11	CARBON	1.5K	5%	1/4W
R364	1-249-424-11	CARBON	3.9K	5%	1/4W
R365	1-249-437-11	CARBON	47K	5%	1/4W
		VARIABLE RESISTOR			
RV001	1-241-787-11	RES, ADJ, CARBON	47K		
		SPARK GAP			
SG001	1-519-422-11	GAP, SPARK			
SG101	1-519-504-11	GAP, DISCHARGE			
SG201	1-519-504-11	GAP, DISCHARGE			
SG301	1-519-504-11	GAP, DISCHARGE			
		CRISTAL			
X1	1-567-890-11	VIBRATOR, CRYSTAL			
		**********			
	* A-1346-408-A	D BOARD, COMPLETE			
		**********			
		[for Japan-made set]			
	* A-1346-411-A	D BOARD, COMPLETE (US/CND)			
		**********			
	* A-1346-419-A	D BOARD, COMPLETE			
		**********			
		(AEP [for UK-made set])			
	* A-1346-447-A	D BOARD, COMPLETE			
		**********			
		(15SF2T)			
	1-533-223-11	HOLDER, FUSE (F601)			
	4-045-132-01	HOLDER (A), LED			
	4-045-133-01	HOLDER (B), LED			
	4-047-285-01	SHEET, INSULATING (Q510)			
	4-382-854-11	SCREW (M3X10), P, SW (+) (Q503, Q507, Q510, Q602, IC504, IC602, D501, D601)			
	4-389-025-01	SCREW (M4X8)(EXT TOOTH WASHER)			
	4-389-026-11	SHEET, BN (Q602)			
		CAPACITOR			
C077	1-162-318-11	CERAMIC	0.001µF	10%	500V
C079	1-109-878-11	CERAMIC	15pF	5%	2KV
C401	1-137-399-11	FILM	0.1µF	5%	50V
C402 ⚠	1-137-370-11	FILM	0.01µF	5%	50V
C403 ⚠	1-126-965-11	ELECT	22µF	20%	50V
C404 ⚠	1-136-203-11	FILM	0.0001µF	5%	630V
C405	1-136-173-00	FILM	0.47µF	5%	50V
C406	1-137-375-11	FILM	0.068µF	5%	50V
C407	1-126-964-11	ELECT	10µF	20%	50V
C408	1-126-964-11	ELECT	10µF	20%	50V
C409	1-124-903-11	ELECT	1µF	20%	50V
C410	1-126-964-11	ELECT	10µF	20%	50V
C411	1-102-112-00	CERAMIC	330pF	10%	50V
C412	1-101-810-00	CERAMIC	100pF	5%	500V
C413	1-126-964-11	ELECT	10µF	20%	50V
C414	1-137-370-11	FILM	0.01µF	5%	50V
C415	1-107-714-11	ELECT	10µF	20%	16V
C501	1-104-664-11	ELECT	47µF	20%	25V
C503	1-107-667-11	ELECT	2.2µF	20%	160V
C504	1-104-664-11	ELECT	47µF	20%	25V
C505	1-107-974-11	CERAMIC	47pF	5%	2KV
C506	1-136-105-00	FILM	0.33µF	5%	200V
C507	1-126-964-11	ELECT	10µF	20%	50V
C509 ⚠	1-137-378-11	FILM	0.22µF	5%	50V
C510	1-128-526-11	ELECT	100µF	20%	25V
C511	1-137-370-11	FILM	0.01µF	5%	50V
C512	1-137-370-11	FILM	0.01µF	5%	50V
C513	1-106-391-12	MYLAR	0.1µF	10%	200V
C514	1-101-006-00	CERAMIC	0.047µF		50V
C515	1-106-228-00	MYLAR	0.22µF	10%	100V
C516	1-137-399-11	FILM	0.1µF	5%	50V
C517	1-107-894-11	ELECT	220µF	20%	35V
C518	1-102-002-00	CERAMIC	680pF	10%	500V
C520	1-126-942-61	ELECT	1000µF	20%	25V
C521	1-128-528-11	ELECT	470µF	20%	25V
C522	1-137-374-11	FILM	0.047µF	5%	50V
C523	1-137-399-11	FILM	0.1µF	5%	50V
C524	1-124-903-11	ELECT	1µF	20%	50V
C525	1-126-964-11	ELECT	10µF	20%	50V
C526 ⚠	1-136-169-00	FILM	0.22µF	5%	50V
C527	1-106-343-00	MYLAR	0.001µF	10%	100V
C528 ⚠	1-126-965-11	ELECT	22µF	20%	50V
C532	1-106-367-00	MYLAR	0.01µF	10%	200V
C533	1-101-821-00	CERAMIC	0.0022µF		500V
C534	1-162-978-11	CERAMIC	0.01µF		2KV
C535	1-161-754-00	CERAMIC	0.001µF	10%	2KV
C536	1-162-978-11	CERAMIC	0.01µF		2KV
C540	1-136-539-11	FILM	0.0022µF	3%	2KV
C541 ⚠	1-109-997-11	FILM	0.0043µF	3%	1.8KV
C542 ⚠	1-137-368-11	FILM	0.0047µF	5%	50V
C543	1-102-973-00	CERAMIC	100pF	5%	50V
C544	1-137-364-11	FILM	0.001µF	5%	50V
C547	1-126-941-11	ELECT	470µF	20%	25V
C548	1-137-425-11	FILM	0.33µF	10%	100V
C549 ⚠	1-137-399-11	FILM	0.1µF	5%	50V
C550	1-109-960-11	FILM	0.43µF	5%	400V
C551	1-102-106-00	CERAMIC	100pF	10%	50V
C562	1-136-946-11	FILM	0.12µF	5%	200V
C563	1-102-110-00	CERAMIC	220pF	10%	50V
C565	1-136-244-11	FILM	0.1µF	5%	50V
C567	1-136-121-00	FILM	0.27µF	5%	200V
C569	1-137-370-11	FILM	0.01µF	5%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C570	1-136-853-11	FILM	0.56µF	5%	200V
C571	1-124-903-11	ELECT	1µF	20%	50V
C573	1-137-364-11	FILM	0.001µF	5%	50V
C577	1-102-106-00	CERAMIC	100pF	10%	50V
C578	1-126-952-11	ELECT	1000µF	20%	16V
C580 ⚠	1-137-367-11	FILM	0.0033µF	5%	50V
C581	1-137-399-11	FILM	0.1µF	5%	50V
C582	1-161-754-00	CERAMIC	0.001µF	10%	2KV
C583	1-106-375-12	MYLAR	0.022µF	10%	100V
C584	1-101-361-00	CERAMIC	150pF	5%	50V
C585 ⚠	1-102-002-00	CERAMIC	680pF	10%	500V
C587	1-137-399-11	FILM	0.1µF	5%	50V
C590	1-126-965-11	ELECT	22µF	20%	50V
C591	1-102-106-00	CERAMIC	100pF	10%	50V
C593	1-136-105-00	FILM	0.33µF	5%	200V
C594	1-137-365-11	FILM	0.0015µF	5%	50V
C595	1-137-370-11	FILM	0.01µF	5%	50V
C596	1-102-114-00	CERAMIC	470pF	10%	50V
C599	1-104-665-11	ELECT	100µF	20%	25V
C601 ⚠	1-107-533-51	FILM	1µF	20%	250V
C602 ⚠	1-104-708-51	FILM	0.47µF	20%	250V
C603 ⚠	1-113-912-51	CERAMIC	0.0047µF	20%	250V
C604 ⚠	1-113-912-51	CERAMIC	0.0047µF	20%	250V
C605 ⚠	1-113-900-51	CERAMIC	470pF	10%	250V
C606 ⚠	1-113-900-51	CERAMIC	470pF	10%	250V
C607	1-113-912-51	CERAMIC	0.0047µF	20%	250V
C608	1-101-810-00	CERAMIC	100pF	5%	500V
C609	1-109-984-11	ELECT	390µF	20%	400V
C610	1-162-115-00	CERAMIC	330pF	10%	2KV
C611	1-125-700-11	ELECT	220µF	20%	200V
C612	1-162-318-11	CERAMIC	0.001µF	10%	500V
C613	1-107-947-11	ELECT	220µF	20%	160V
C615	1-126-944-11	ELECT	3300µF	20%	25V
C616	1-107-896-11	ELECT	470µF	20%	35V
C617	1-126-105-11	ELECT	1000µF	20%	25V
C618	1-126-942-61	ELECT	1000µF	20%	25V
C619	1-102-116-00	CERAMIC	680pF	10%	50V
C620	1-136-601-11	FILM	0.01µF	5%	630V
C621	1-128-564-11	ELECT	220µF	20%	100V
C622	1-136-169-00	FILM	0.22µF	5%	50V
C623	1-137-370-11	FILM	0.01µF	5%	50V (15SF2T)
C624	1-124-903-11	ELECT	1µF	20%	50V
C625	1-102-114-00	CERAMIC	470pF	10%	50V
C626	1-137-364-11	FILM	0.001µF	5%	50V
C627	1-102-114-00	CERAMIC	470pF	10%	50V
C628	1-124-927-11	ELECT	4.7µF	20%	50V
C630	1-126-964-11	ELECT	10µF	20%	50V
C632	1-102-110-00	CERAMIC	220pF	10%	50V
C633	1-137-399-11	FILM	0.1µF	5%	50V
C634	1-128-526-11	ELECT	100µF	20%	25V
C635	1-128-528-11	ELECT	470µF	20%	16V
C639	1-137-399-11	FILM	0.1µF	5%	50V
C640	1-126-964-11	ELECT	10µF	20%	50V
C641	1-137-364-11	FILM	0.001µF	5%	50V
C901	1-137-399-11	FILM	0.1µF	5%	50V
C902	1-137-366-11	FILM	0.0022µF	5%	50V
C903	1-102-951-00	CERAMIC	15pF	5%	50V
C904	1-137-399-11	FILM	0.1µF	5%	50V
C905	1-137-399-11	FILM	0.1µF	5%	50V
C906	1-137-399-11	FILM	0.1µF	5%	50V
C907	1-124-927-11	ELECT	4.7µF	20%	50V
C908	1-102-951-00	CERAMIC	15pF	5%	50V
C909	1-102-106-00	CERAMIC	100pF	10%	50V
C911	1-126-768-11	ELECT	2200µF	20%	16V
C912	1-136-165-00	FILM	0.1µF	5%	50V
C916	1-124-925-11	ELECT	2.2µF	20%	50V
C917	1-124-925-11	ELECT	2.2µF	20%	50V
C918	1-124-925-11	ELECT	2.2µF	20%	50V
C919	1-124-925-11	ELECT	2.2µF	20%	50V
C920	1-124-925-11	ELECT	2.2µF	20%	50V
C921	1-124-925-11	ELECT	2.2µF	20%	50V
C922	1-137-399-11	FILM	0.1µF	5%	50V
C923	1-137-370-11	FILM	0.01µF	5%	50V
C924	1-137-399-11	FILM	0.1µF	5%	50V
C925	1-126-934-11	ELECT	220µF	20%	16V
C926	1-137-364-11	FILM	0.001µF	5%	50V
C928	1-137-370-11	FILM	0.01µF	5%	50V
C929	1-137-399-11	FILM	0.1µF	5%	50V
C930	1-124-768-11	ELECT	4.7µF	20%	35V
C931	1-136-169-00	FILM	0.22µF	5%	50V
C932	1-137-399-11	FILM	0.1µF	5%	50V
C933	1-126-934-11	ELECT	220µF	20%	16V
C934	1-124-925-11	ELECT	2.2µF	20%	50V
C935	1-136-169-00	FILM	0.22µF	5%	50V
C936	1-137-399-11	FILM	0.1µF	5%	50V
C937	1-126-935-11	ELECT	470µF	20%	16V
C938 ⚠	1-124-927-11	ELECT	4.7µF	20%	50V
C939	1-137-399-11	FILM	0.1µF	5%	50V
C940	1-126-934-11	ELECT	220µF	20%	16V
C941	1-126-934-11	ELECT	220µF	20%	16V
C942	1-137-370-11	FILM	0.01µF	5%	50V
C943	1-137-370-11	FILM	0.01µF	5%	50V
C944	1-104-665-11	ELECT	100µF	20%	25V
C945	1-137-370-11	FILM	0.01µF	5%	50V
C946	1-102-106-00	CERAMIC	100pF	10%	50V
C948	1-137-399-11	FILM	0.1µF	5%	50V
C949	1-137-399-11	FILM	0.1µF	5%	50V
C951	1-136-173-00	FILM	0.47µF	5%	50V
C952	1-137-372-11	FILM	0.022µF	5%	50V
C953	1-137-372-11	FILM	0.022µF	5%	50V
C954	1-137-399-11	FILM	0.1µF	5%	50V
C960	1-137-374-11	FILM	0.047µF	5%	50V
C961	1-102-110-00	CERAMIC	220pF	10%	50V
C962	1-124-925-11	ELECT	2.2µF	20%	50V
C964	1-137-364-11	FILM	0.001µF	5%	50V
C965	1-136-165-00	FILM	0.1µF	5%	50V
C1801	1-102-112-00	CERAMIC	330pF	10%	50V
C1802	1-102-112-00	CERAMIC	330pF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		CONNECTOR	
CN501*	1-580-798-11	CONNECTOR PIN (DY)	6P
CN505*	1-564-514-11	PLUG, CONNECTOR	11P
CN508*	1-564-515-11	PLUG, CONNECTOR	12P
CN509*	1-508-879-00	BASE POST	
CN510	1-695-915-11	TAB (CONTACT)	
CN600⚠	1-251-227-11	INLET, AC	
CN601	1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P
CN602	1-695-915-11	TAB (CONTACT)	
CN604*	1-691-134-11	PIN, CONNECTOR (PC BOARD)	2P
CN605*	1-506-371-00	PIN, CONNECTOR	2P
CN606	1-695-915-11	TAB (CONTACT)	
		DIODE	
D401	8-719-110-41	ZENER DIODE RD15ESB2	
D402	8-719-979-58	DIODE EGP10D	
D403	8-719-908-03	DIODE GP08D	
D404	8-719-908-03	DIODE GP08D	
D405	8-719-908-03	DIODE GP08D	
D407⚠	8-719-110-67	ZENER DIODE RD27ESB2	
D501	8-719-049-12	DIODE 5TUZ52	
D502	8-719-979-58	DIODE EGP10D	
D504	8-719-051-97	DIODE 3DL41A(LC6-15)	
D505	8-719-110-17	ZENER DIODE RD10ESB2	
D508	8-719-975-77	DIODE SB340	
D513	8-719-970-83	DIODE HSS82	
D514	8-719-970-83	DIODE HSS82	
D515⚠	8-719-979-58	DIODE EGP10D	
D517	8-719-109-97	ZENER DIODE RD6.8ESB2	
D519	8-719-109-97	ZENER DIODE RD6.8ESB2	
D522	8-719-911-19	DIODE 1SS119	
D523	8-719-911-19	DIODE 1SS119	
D525	8-719-110-31	ZENER DIODE RD12ESB2	
D526	8-719-018-82	DIODE RGP02-20EL-6394	
D527	8-719-911-55	DIODE U05G	
D528	8-719-979-60	DIODE EGP10G	
D529	8-719-911-19	DIODE 1SS119	
D530	8-719-901-83	DIODE 1SS83	
D543	8-719-911-19	DIODE 1SS119	
D544	8-719-911-19	DIODE 1SS119	
D557	8-719-109-81	ZENER DIODE RD4.7ESB2	
D596⚠	8-719-911-19	DIODE 1SS119	
D597⚠	8-719-911-19	DIODE 1SS119	
D598	8-719-110-41	ZENER DIODE RD15ESB2	
D599	8-719-911-19	DIODE 1SS119	
D601⚠	8-719-025-88	DIODE GBU4JL-6088	
D602	8-719-908-03	DIODE GP08D	
D604	8-719-908-03	DIODE GP08D	
D605	8-719-048-62	DIODE UF3ML-6505	
D607	8-719-054-51	DIODE D8LC20U-4012	
D608	8-719-979-50	DIODE EGP30D	
D609	8-719-051-97	DIODE 3DL41A(LC6-15)	
D610	8-719-053-19	DIODE UF4007G23	
D611	8-719-300-76	DIODE RH-1A	
D613	8-719-110-49	ZENER DIODE RD18ESB2	
D614	8-719-911-19	DIODE 1SS119	
D617	8-719-109-60	ZENER DIODE RD2.7ESB2	
D618	8-719-911-19	DIODE 1SS119	
D620	8-719-911-19	DIODE 1SS119	
D621	8-719-911-19	DIODE 1SS119	
D901	8-719-911-19	DIODE 1SS119	
D902	8-719-911-19	DIODE 1SS119	
D904	8-719-109-89	ZENER DIODE RD5.6ESB2	
D907	8-719-109-88	ZENER DIODE RD5.6ESB1	
D909	8-719-911-19	DIODE 1SS119	
D910	8-719-911-19	DIODE 1SS119	
D911	8-719-911-19	DIODE 1SS119	
D912	8-719-911-19	DIODE 1SS119	
D913	8-719-911-19	DIODE 1SS119	
D914	8-719-911-19	DIODE 1SS119	
D915	8-719-911-19	DIODE 1SS119	
D916	8-719-911-19	DIODE 1SS119	
D917	8-719-911-19	DIODE 1SS119	
D918	8-719-911-19	DIODE 1SS119	
D920	8-719-911-19	DIODE 1SS119	
D1803	8-719-311-90	DIODE SEL1922D-C	
D1804	8-719-311-90	DIODE SEL1922D-C	
D1805	8-719-311-90	DIODE SEL1922D-C	
D1806	8-719-311-90	DIODE SEL1922D-C	
D1807	8-719-311-15	DIODE SEL1422G	
D1808	8-719-311-90	DIODE SEL1922D-C	
		FUSE	
F601⚠	1-576-231-11	FUSE (H.B.C.) 4A/250V	
		FERRITE BEAD	
FB501	1-410-396-41	FERRITE BEAD INDUCTOR	0.45µH
FB502	1-410-396-41	FERRITE BEAD INDUCTOR	0.45µH
FB601	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB602	1-410-396-41	FERRITE BEAD INDUCTOR	0.45µH
FB603	1-410-396-41	FERRITE BEAD INDUCTOR	0.45µH
FB604	1-410-396-41	FERRITE BEAD INDUCTOR	0.45µH
FB605	1-410-396-41	FERRITE BEAD INDUCTOR	0.45µH
FB606	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB607	1-535-303-00	LEAD, JUMPER (5.0MM)	
FB901	1-410-397-21	FERRITE BEAD INDUCTOR	1.1µH
FB902	1-410-397-21	FERRITE BEAD INDUCTOR	1.1µH
		TERMINAL	
GT002*	1-537-738-21	TERMINAL, EARTH	
		IC	
IC400	8-759-803-42	IC LA6500-FA	
IC500⚠	8-759-729-03	IC NJM2903D	
IC501⚠	8-759-342-07	IC UPC5023CS-095	
IC502	8-759-054-26	IC HD74HC123AP	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
IC504	8-759-980-58	IC TDA8172	
IC601	8-759-335-24	IC TEA2262	
IC602	8-759-335-23	IC TDA8138	
IC901	8-759-354-66	ST7271N5B1/CCM	
IC902	8-759-921-08	IC SN74HC02AN	
IC903	8-759-165-81	IC PST600D-T	
IC904	8-759-336-24	IC TDA9103	
IC905	8-759-000-49	IC MC14066BCP	
IC908	8-759-503-91	IC TL082ACP	
		COIL	
L501	1-412-550-11	INDUCTOR 1.2MMH	
L502	1-412-537-31	INDUCTOR 100µH	
L504	1-459-104-00	COIL, WITH CORE	
L505	1-412-531-31	INDUCTOR 33µH	
L506	1-459-104-00	COIL, WITH CORE	
L507	1-412-531-31	INDUCTOR 33µH	
L513	1-409-803-11	COIL, HORIZONTAL LINEARITY	
L601	1-412-537-31	INDUCTOR 100µH	
L606	1-412-537-31	INDUCTOR 100µH	
L608	1-406-665-11	COIL, CHOKE 100UH	
L900	1-412-537-31	INDUCTOR 100µH	
L901	1-412-537-31	INDUCTOR 100µH	
L902	1-412-537-31	INDUCTOR 100µH	
L903	1-412-537-31	INDUCTOR 100µH	
		FILTER	
LF601	⚠1-424-677-11	TRANSFORMER, LINE FILTER	
		IC LINK	
PS401	⚠1-532-838-41	LINK, IC 600MA/90V	
		TRANSISTOR	
Q401	8-729-031-89	TRANSISTOR 2SC3941A-Q(TA)	
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q502	8-729-931-45	TRANSISTOR IRF614	
Q503	8-729-027-97	TRANSISTOR IRFI9630G-LF	
Q507	8-729-027-95	TRANSISTOR 2SC5129(LBSONY)	
Q510	8-729-027-82	TRANSISTOR IRFPE40LF20	
Q512	8-729-027-96	TRANSISTOR IRLI530G	
Q513	8-729-027-96	TRANSISTOR IRLI530G	
Q514	8-729-027-96	TRANSISTOR IRLI530G	
Q517	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q520	8-729-900-36	TRANSISTOR DTC124ES	
Q522	8-729-143-79	TRANSISTOR 2SK738	
Q524	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q525	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q526	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q601	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q602	8-729-926-52	TRANSISTOR IRFPC40	
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q605	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q900	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q901	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q902	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q903	8-729-900-36	TRANSISTOR DTC124ES	
Q904	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		RESISTOR	
R002	1-247-807-31	CARBON 100 5% 1/4W	
R003	1-247-807-31	CARBON 100 5% 1/4W	
R004	1-249-417-11	CARBON 1K 5% 1/4W	
R005	1-249-417-11	CARBON 1K 5% 1/4W	
R006	1-249-417-11	CARBON 1K 5% 1/4W	
R007	1-249-417-11	CARBON 1K 5% 1/4W	
R008	1-249-417-11	CARBON 1K 5% 1/4W	
R072	1-215-445-00	METAL 10K 1% 1/4W	
R401	1-215-443-00	METAL 8.2K 1% 1/4W	
R402	1-249-429-11	CARBON 10K 5% 1/4W	
R403	1-249-439-11	CARBON 68K 5% 1/4W	
R404	1-215-485-00	METAL 470K 1% 1/4W	
R405	1-249-401-11	CARBON 47 5% 1/4W	
R406	1-215-447-00	METAL 12K 1% 1/4W	
R407	1-215-449-00	METAL 15K 1% 1/4W	
R408	1-249-383-11	CARBON 1.5 5% 1/4W	F
R409	1-215-429-00	METAL 2.2K 1% 1/4W	
R410	1-215-883-11	METAL OXIDE 33 5% 2W	F
R411	1-215-460-00	METAL 43K 1% 1/4W	
R412	1-215-439-00	METAL 5.6K 1% 1/4W	
R415	1-249-419-11	CARBON 1.5K 5% 1/4W	
R416	1-249-441-11	CARBON 100K 5% 1/4W	
R417	1-215-427-00	METAL 1.8K 1% 1/4W	
R418	1-216-391-11	METAL OXIDE 1.5 5% 3W	F
R419	1-247-887-00	CARBON 220K 5% 1/4W	
R420	1-247-889-00	CARBON 270K 5% 1/4W	
R421	1-202-963-11	METAL 1 1% 1W	
R422	1-215-866-11	METAL OXIDE 330 5% 1W	F
R423	1-215-439-00	METAL 5.6K 1% 1/4W	
R424	1-215-447-00	METAL 12K 1% 1/4W	
R425	1-215-439-00	METAL 5.6K 1% 1/4W	
R426	1-249-383-11	CARBON 1.5 5% 1/4W	F
R427	1-215-447-00	METAL 12K 1% 1/4W	
R428	1-249-421-11	CARBON 2.2K 5% 1/4W	
R429	1-249-417-11	CARBON 1K 5% 1/4W	
R436	1-216-392-11	METAL OXIDE 1.8 5% 3W	F
R440	1-249-428-11	CARBON 8.2K 5% 1/4W	
R441	1-249-405-11	CARBON 100 5% 1/4W	F
R444	1-247-863-91	CARBON 22K 5% 1/4W	
R445	1-215-888-00	METAL OXIDE 220 5% 2W	F
R450	⚠1-215-463-00	METAL 56K 1% 1/4W	
R451	1-216-474-11	METAL OXIDE 82 5% 3W	F
R452	1-249-428-11	CARBON 8.2K 5% 1/4W	

D

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R453	1-216-474-11	METAL OXIDE	82	5%	3W	F
R454	1-219-683-11	METAL	220K	5%	1/2W	
R455	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R457 ⚠	1-215-476-91	METAL	200K	1%	1/4W	
R458	1-249-397-11	CARBON	22	5%	1/4W	F
R459 ⚠	1-215-429-00	METAL	2.2K	1%	1/4W	
R460 ⚠	1-215-429-00	METAL	2.2K	1%	1/4W	
R472 ⚠	1-249-389-11	CARBON	4.7	5%	1/4W	F
R473	1-215-469-00	METAL	100K	1%	1/4W	
R474	1-215-493-00	METAL	1M	1%	1/4W	
R475 ⚠	1-215-421-00	METAL	1K	1%	1/4W	
R480	1-249-397-11	CARBON	22	5%	1/4W	F
R481	1-249-419-11	CARBON	1.5K	5%	1/4W	
R484	1-249-435-11	CARBON	3.3K	5%	1/4W	
R485	1-249-421-11	CARBON	2.2K	5%	1/4W	
R487 ⚠	1-249-429-11	CARBON	10K	5%	1/4W	
R490	1-249-417-11	CARBON	1K	5%	1/4W	F
R492 ⚠	1-215-472-00	METAL	130K	1%	1/4W	
R493	1-216-477-11	METAL OXIDE	270	5%	3W	F
R494 ⚠	1-215-489-00	METAL	680K	1%	1/4W	
R496 ⚠	1-215-467-00	METAL	82K	1%	1/4W	
R497	1-249-417-11	CARBON	1K	5%	1/4W	F
R498 ⚠	1-215-461-00	METAL	47K	1%	1/4W	
R499	1-249-377-11	CARBON	0.47	5%	1/4W	F
R502	1-249-417-11	CARBON	1K	5%	1/4W	F
R503	1-249-437-11	CARBON	47K	5%	1/4W	
R504	1-249-437-11	CARBON	47K	5%	1/4W	
R505	1-215-427-00	METAL	1.8K	1%	1/4W	
R506	1-247-883-00	CARBON	150K	5%	1/4W	
R507	1-249-437-11	CARBON	47K	5%	1/4W	
R508 ⚠	1-215-469-00	METAL	100K	1%	1/4W	
R509 ⚠	1-215-477-00	METAL	220K	1%	1/4W	
R511	1-247-887-00	CARBON	220K	5%	1/4W	
R512 ⚠	1-249-438-11	CARBON	56K	5%	1/4W	
R516	1-215-447-00	METAL	12K	1%	1/4W	
R517	1-215-489-00	METAL	680K	1%	1/4W	
R518	1-215-475-00	METAL	180K	1%	1/4W	
R519	1-249-437-11	CARBON	47K	5%	1/4W	
R520	1-215-443-00	METAL	8.2K	1%	1/4W	
R521	1-215-867-00	METAL OXIDE	470	5%	1W	F
R524	1-216-447-00	METAL OXIDE	27	5%	2W	F
R525	1-215-461-00	METAL	47K	1%	1/4W	
R526	1-215-465-00	METAL	68K	1%	1/4W	
R527	1-215-459-00	METAL	39K	1%	1/4W	
R528	1-215-445-00	METAL	10K	1%	1/4W	
R529	1-249-415-11	CARBON	680	5%	1/4W	
R530	1-249-931-11	CARBON	2.2K	5%	1/4W	F
R531	1-249-432-11	CARBON	18K	5%	1/4W	
R532	1-249-429-11	CARBON	10K	5%	1/4W	
R535	1-249-429-11	CARBON	10K	5%	1/4W	
R563	1-249-441-11	CARBON	100K	5%	1/4W	
R564	1-249-421-11	CARBON	2.2K	5%	1/4W	
R565	1-215-441-00	METAL	6.8K	1%	1/4W	
R566	1-215-912-11	METAL OXIDE	150	5%	3W	F
R567	1-215-907-11	METAL OXIDE	22	5%	3W	F
R568	1-215-859-00	METAL OXIDE	22	5%	1W	F
R569	1-216-427-00	METAL OXIDE	120	5%	1W	F
R570	1-215-441-00	METAL	6.8K	1%	1/4W	
R571	1-249-377-11	CARBON	0.47	5%	1/4W	F
R572	1-249-426-11	CARBON	5.6K	5%	1/4W	
R573	1-249-429-11	CARBON	10K	5%	1/4W	
R574	1-249-429-11	CARBON	10K	5%	1/4W	
R575	1-249-426-11	CARBON	5.6K	5%	1/4W	
R576	1-249-425-11	CARBON	4.7K	5%	1/4W	
R577 ⚠	1-249-437-11	CARBON	47K	5%	1/4W	
R582	1-249-426-11	CARBON	5.6K	5%	1/4W	
R583	1-249-426-11	CARBON	5.6K	5%	1/4W	
R589	1-215-449-00	METAL	15K	1%	1/4W	
R601 ⚠	1-202-882-91	SOLID	560K	20%	1/2W	
R602	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R603	1-215-469-00	METAL	100K	1%	1/4W	
R604	1-211-874-11	FUSIBLE	0.12	10%	1/2W	
R605	1-219-154-11	FUSIBLE	0.12	10%	1/4W	
R606	1-219-154-11	FUSIBLE	0.12	10%	1/4W	
R607	1-216-345-11	METAL OXIDE	0.47	5%	1W	F
R608	1-249-417-11	CARBON	1K	5%	1/4W	
R609	1-249-417-11	CARBON	1K	5%	1/4W	
R610	1-249-437-11	CARBON	47K	5%	1/4W	
R611	1-249-408-11	CARBON	180	5%	1/4W	
R617	1-219-154-11	FUSIBLE	0.12	10%	1/4W	
R620	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R621 ⚠	1-215-901-71	METAL OXIDE	33K	5%	2W	F
R622	1-211-874-11	FUSIBLE	0.12	10%	1/2W	
R623	1-249-436-11	CARBON	39K	5%	1/4W	
R624	1-249-394-11	CARBON	12	5%	1/4W	F
R625	1-249-393-11	CARBON	10	5%	1/4W	
R626	1-249-429-11	CARBON	10K	5%	1/4W	
R627	1-249-405-11	CARBON	100	5%	1/4W (15SF2T)	
R628	1-215-463-00	METAL	56K	1%	1/4W	
R629	1-215-421-00	METAL	1K	1%	1/4W	
R630	1-207-983-00	WIREWOUND	0.18	10%	3W	F
R631	1-249-441-11	CARBON	100K	5%	1/4W	
R632	1-247-863-91	CARBON	22K	5%	1/4W	
R633	1-249-429-11	CARBON	10K	5%	1/4W	
R634	1-215-433-00	METAL	3.3K	1%	1/4W	
R635	1-215-419-00	METAL	820	1%	1/4W	
R636	1-247-791-91	CARBON	22	5%	1/4W	
R637	1-249-417-11	CARBON	1K	5%	1/4W	
R638	1-215-421-00	METAL	1K	1%	1/4W	
R639	1-215-397-00	METAL	100	1%	1/4W	
R640	1-215-397-00	METAL	100	1%	1/4W	
R641	1-249-415-11	CARBON	680	5%	1/4W	
R642	1-247-863-91	CARBON	22K	5%	1/4W	
R645	1-249-427-11	CARBON	6.8K	5%	1/4W	
R646	1-215-463-00	METAL	56K	1%	1/4W	
R647	1-215-435-00	METAL	3.9K	1%	1/4W	
R648	1-249-393-11	CARBON	10	5%	1/4W	F
R649	1-247-891-00	CARBON	330K	5%	1/4W	
R650	1-215-445-00	METAL	10K	1%	1/4W	
R651	1-215-449-00	METAL	15K	1%	1/4W	
R652	1-249-429-11	CARBON	10K	5%	1/4W	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R656	1-249-403-11	CARBON	68	5%	1/4W
R657	1-249-417-11	CARBON	1K	5%	1/4W
R658	1-249-417-11	CARBON	1K	5%	1/4W
R661 ⚠	1-205-985-21	WIREWOUND	1.5	5%	20W
R900	1-249-417-11	CARBON	1K	5%	1/4W
R901	1-249-425-11	CARBON	4.7K	5%	1/4W
R902	1-249-425-11	CARBON	4.7K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-249-425-11	CARBON	4.7K	5%	1/4W
R905	1-215-471-00	METAL	120K	1%	1/4W
R907	1-249-417-11	CARBON	1K	5%	1/4W
R908	1-247-863-91	CARBON	22K	5%	1/4W
R910	1-249-437-11	CARBON	47K	5%	1/4W
R912	1-215-477-00	METAL	220K	1%	1/4W
R913	1-247-863-91	CARBON	22K	5%	1/4W
R914	1-247-863-91	CARBON	22K	5%	1/4W
R915	1-249-417-11	CARBON	1K	5%	1/4W
R916	1-249-417-11	CARBON	1K	5%	1/4W
R918	1-249-435-11	CARBON	33K	5%	1/4W
R919	1-249-425-11	CARBON	4.7K	5%	1/4W
R920	1-249-417-11	CARBON	1K	5%	1/4W
R921	1-247-863-91	CARBON	22K	5%	1/4W
R923	1-249-425-11	CARBON	4.7K	5%	1/4W
R924	1-249-432-11	CARBON	18K	5%	1/4W
R925	1-215-451-00	METAL	18K	1%	1/4W
R926	1-249-434-11	CARBON	27K	5%	1/4W
R927	1-249-434-11	CARBON	27K	5%	1/4W
R928	1-249-434-11	CARBON	27K	5%	1/4W
R929	1-249-436-11	CARBON	39K	5%	1/4W
R930	1-247-881-00	CARBON	120K	5%	1/4W
R931	1-249-428-11	CARBON	8.2K	5%	1/4W
R932	1-249-428-11	CARBON	8.2K	5%	1/4W
R933	1-215-445-00	METAL	10K	1%	1/4W
R934	1-249-428-11	CARBON	8.2K	5%	1/4W
R935	1-249-428-11	CARBON	8.2K	5%	1/4W
R936	1-249-393-11	CARBON	10	5%	1/4W
R937	1-249-428-11	CARBON	8.2K	5%	1/4W
R938	1-249-425-11	CARBON	4.7K	5%	1/4W
R939	1-249-417-11	CARBON	1K	5%	1/4W
R940	1-215-409-00	METAL	330	1%	1/4W
R941	1-249-434-11	CARBON	27K	5%	1/4W
R944	1-249-424-11	CARBON	3.9K	5%	1/4W
R945	1-249-424-11	CARBON	3.9K	5%	1/4W
R946	1-247-903-00	CARBON	1M	5%	1/4W
R947	1-249-439-11	CARBON	68K	5%	1/4W
R948	1-247-903-00	CARBON	1M	5%	1/4W
R949	1-247-883-00	CARBON	150K	5%	1/4W
R950	1-247-883-00	CARBON	150K	5%	1/4W
R951	1-247-883-00	CARBON	150K	5%	1/4W
R952	1-247-883-00	CARBON	150K	5%	1/4W
R953	1-249-425-11	CARBON	4.7K	5%	1/4W
R954	1-249-425-11	CARBON	4.7K	5%	1/4W
R955	1-249-436-11	CARBON	39K	5%	1/4W
R956	1-249-421-11	CARBON	2.2K	5%	1/4W
R957	1-247-852-11	CARBON	7.5K	5%	1/4W
R958	1-249-420-11	CARBON	1.8K	5%	1/4W
R959	1-215-409-00	METAL	330	1%	1/4W
R960	1-249-429-11	CARBON	10K	5%	1/4W
R961	1-215-459-00	METAL	39K	1%	1/4W
R962	1-249-417-11	CARBON	1K	5%	1/4W
R963	1-249-441-11	CARBON	100K	5%	1/4W
R965	1-249-417-11	CARBON	1K	5%	1/4W
R966	1-249-441-11	CARBON	100K	5%	1/4W
R967	1-249-425-11	CARBON	4.7K	5%	1/4W
R969	1-247-863-91	CARBON	22K	5%	1/4W
R970 ⚠	1-249-417-11	CARBON	1K	5%	1/4W
R972	1-249-429-11	CARBON	10K	5%	1/4W
R974	1-249-393-11	CARBON	10	5%	1/4W F
R975	1-249-421-11	CARBON	2.2K	5%	1/4W
R976	1-249-429-11	CARBON	10K	5%	1/4W
R977	1-249-417-11	CARBON	1K	5%	1/4W
R979	1-249-417-11	CARBON	1K	5%	1/4W
R980	1-249-417-11	CARBON	1K	5%	1/4W
R981	1-247-903-00	CARBON	1M	5%	1/4W
R984	1-247-895-91	CARBON	470K	5%	1/4W
R985	1-249-427-11	CARBON	6.8K	5%	1/4W
R989	1-247-887-00	CARBON	220K	5%	1/4W
R990	1-249-417-11	CARBON	1K	5%	1/4W
R991	1-247-895-91	CARBON	470K	5%	1/4W
R992	1-247-895-91	CARBON	470K	5%	1/4W
R993	1-249-417-11	CARBON	1K	5%	1/4W
R994	1-249-431-11	CARBON	15K	5%	1/4W
R997	1-249-414-11	CARBON	560	5%	1/4W
R998	1-247-895-91	CARBON	470K	5%	1/4W
R999	1-249-429-11	CARBON	10K	5%	1/4W
R1000	1-249-440-11	CARBON	82K	5%	1/4W
R1001	1-249-429-11	CARBON	10K	5%	1/4W
R1002	1-249-417-11	CARBON	1K	5%	1/4W
R1801	1-215-433-00	METAL	3.3K	1%	1/4W
R1803	1-249-413-11	CARBON	470	5%	1/4W
R1804	1-249-413-11	CARBON	470	5%	1/4W
R1805	1-249-413-11	CARBON	470	5%	1/4W
R1806	1-215-421-00	METAL	1K	1%	1/4W
R1807	1-249-413-11	CARBON	470	5%	1/4W
R1808	1-249-413-11	CARBON	470	5%	1/4W
R1809	1-249-413-11	CARBON	470	5%	1/4W
R1810	1-215-413-00	METAL	470	1%	1/4W
R1811	1-215-409-00	METAL	330	1%	1/4W
R1812	1-215-413-00	METAL	470	1%	1/4W
R1813	1-215-413-00	METAL	470	1%	1/4W
R1814	1-215-417-00	METAL	680	1%	1/4W
R1815	1-215-469-00	METAL	100K	1%	1/4W
R1817	1-249-413-11	CARBON	470	5%	1/4W
R1818	1-215-425-00	METAL	1.5K	1%	1/4W
R1819	1-215-425-00	METAL	1.5K	1%	1/4W
R1820	1-215-433-00	METAL	3.3K	1%	1/4W
R1821	1-249-413-11	CARBON	470	5%	1/4W
R1822	1-215-433-00	METAL	3.3K	1%	1/4W
R1823	1-215-413-00	METAL	470	1%	1/4W
R1832	1-215-469-00	METAL	100K	1%	1/4W

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The components identified by ☒ in this manual have been carefully factory-selected for eachset in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
		VARIABLE RESISTOR	
☒RV470	⚠1-241-767-21	RES, ADJ, CERMET 100K	
	3-710-578-01	COVER, VOLUME, 6 MOLD (RV470)	
RV601	1-241-764-11	RES, ADJ, CERMET 10K	
		RELAY	
RY601	⚠1-515-840-12	RELAY	
		SWITCH	
S500	1-572-707-11	SWITCH, LEVER	
S501	1-553-809-21	SWITCH, SLIDE	
S1801	1-762-093-11	SWITCH, TACTILE	
S1802	1-762-093-11	SWITCH, TACTILE	
S1803	1-762-093-11	SWITCH, TACTILE	
S1815	1-692-220-11	SWITCH, TACTILE	
S1816	1-692-220-11	SWITCH, TACTILE	
S1817	1-692-220-11	SWITCH, TACTILE	
S1818	1-692-220-11	SWITCH, TACTILE	
S1819	1-692-431-21	SWITCH, TACTILE	
S1821	1-692-220-11	SWITCH, TACTILE	
		SPARK GAP	
SG501	1-519-422-11	GAP, SPARK	
		TRANSFORMER	
T501	⚠X-4033-083-1	TRANSFORMER ASSY, FLYBACK (NX-4130//J1E)	
T503	1-429-109-11	TRANSFORMER, FERRITE (DFT)	
T504	1-429-103-11	TRANSFORMER, FERRITE (HDT)	
T505	1-426-998-11	TRANSFORMER, FERRITE (HST)	
T601	⚠1-429-117-11	TRANSFORMER, CONVERTER (SRT)	
T603	1-429-118-11	TRANSFORMER, FERRITE (PST)	
		THERMISTOR	
TH501	1-807-796-11	THERMISTOR	
TH601	⚠1-810-990-11	THERMISTOR	
		THERMISTOR	
THP601	⚠1-809-827-11	THERMISTOR, POSITIVE	
		VARISTOR	
VA601	⚠1-113-903-51	CERAMIC 0.001μF 20% 250V	
		CRISTAL	
X900	1-567-890-11	VIBRATOR, CRYSTAL	
		**********	
		MISCELLANEOUS **********	
	⚠1-409-799-11	COIL, DEMAGNETIZATION	
	⚠1-452-756-11	NECK ASSY, PICTURE TUBE (NA293)	
	1-540-005-21	CAP ASSY, HIGH VOLTAGE	
	1-765-717-11	CORD SET, POWER (except for US/CND)	
	1-765-718-11	CORD SET, POWER (US/CND)	
	1-775-535-21	CABLE ASSY	
	⚠8-451-469-21	DEFLECTION YOKE Y15FRF2M2	
V901	⚠8-734-828-05	PICTURE TUBE 15FR2 (DY) (M36LDJ15X) (except for AUS)	
V901	⚠8-734-829-05	PICTURE TUBE 15FR2 (S/DY) (M36LDJ15X) (AUS)	
V901	⚠8-734-830-05	PICTURE TUBE 15FRF (DY/FILM) (M36LDJ15X) (15SF2T)	

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