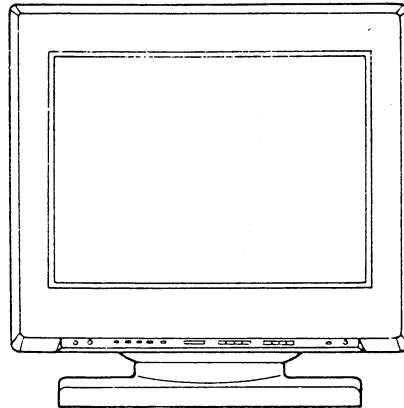


GDM-20E01/20E01T

SERVICE MANUAL



GDM-20E01
US Model
Canadian Model
Chassis No. SCC-G96A-A
AEP Model
Chassis No. SCC-G24C-A
GDM-20E01T
AEP Model
Chassis No. SCC-G24M-A

N-1 CHASSIS

SPECIFICATIONS

Picture tube	0.31 mm phosphor trio pitch 20 inches measured diagonally (19" visual) 90° - degree deflection
Effective picture size	Approx. 388 × 292 mm (w/h) (15 × 11½ inches)
Resolution	Horizontal : Max. 1280 dots Vertical : Max. 1024 lines
Display picture size	Approx. 350 × 280 mm (w/h) (13⅞ × 11⅞ inches) or Approx. 360 × 270 mm (w/h) (14¼ × 10¾ inches)
Deflection frequency	Horizontal : 29 to 82 kHz Vertical : 50 to 150 Hz
AC input voltage/current	100 to 120 V, 50/60 Hz, Max. 3.0 A 220 to 240 V, 50/60 Hz, 1.8 A
Dimensions	474 × 474 × 501.5 mm (w/h/d) (18¾ × 18¾ × 19¾ inches)
Mass	Approx. 30 kg (66 lb 2 oz)

Design and specifications are subject to change without notice.

MULTI-SCAN®
COLOR GRAPHIC DISPLAY
SONY®

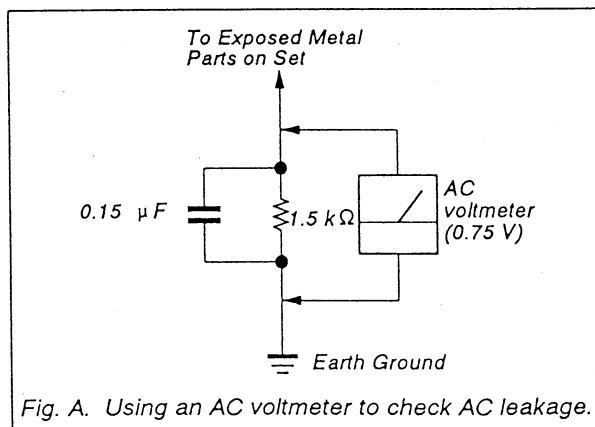


SAFETY CHECK-OUT

(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, through 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.



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 microamperes). 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 Δ 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 IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE 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 IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

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 unsecured or poorly-secured connections. Check the entire front surface for visible staples and bridges.
2. Check the backboard wiring to ensure that no wires are "jacked" or come in high-voltage contact.
3. Check that all control knobs, dials, screws, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the hardware.
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, through overheating, 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 cord that will be to the customer.
7. Check the IR and HV to see if they are specified values. Make sure your instruments are accurate to within 1% of your HV meter. If not, always test the HV.
8. Check the antenna terminals, metal pins, "unsoldered" leads, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



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 value is checked, must not exceed 0.5 μ A (50 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage meter, such as the Simpson 220 or RCA WT-100A. Follow the manufacturer's instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 244 digital milliammeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "load" indication is 0.75 V, so testing points must have no excessive low-voltage noise. The Simpson 220 and Saurer 224-437-0 are examples of a positive VOMs that are suitable. Nearly all battery-operated digital milliammeters that have a 1/2 V AC response suitable (See Fig. A).

WARNING

NEVER TURN ON THE POWER IN A CIRCUIT IN WHICH THE RESIDUAL COIL HAS BEEN REWIRED.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARKED A ON THE REWORKING DIAGRAMS, REPLACED HERE AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH ONLY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTARY PUBLISHED BY SONY. CRITICAL ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PRECAUTIONS WHENEVER CRITICAL COMPONENTS ARE REPLACED OR ADJUSTED OR OPERATION IS SUSPECTED.

ATTENTION

NE JAMAIS METTRE BOUS TENSION QUAND LA BATTERIE DE RECHARGEMENT EST CHARGÉE.

ATTENTION: LES COMPOSANTS CRITIQUES RELATIFS À LA SÉCURITÉ

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAVERSEE ET PAR UNE MARQUE A SUR LES SCHÉMAS DE RÉPARATION, LES LISTES D'ÉLÉMENTS ET LES LISTES DE PIÈCES SONT DES ÉLÉMENTS CRITIQUES POUR LA SÉCURITÉ DU RECHARGEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONNÉES LE NOMBRE DE PIÈCE EST INDICÉ DANS LE PRÉSENT MANUEL, OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE SÉCURITÉ SONT L'IMPORANT EST CRITIQUES POUR LA SÉCURITÉ DU FONCTIONNEMENT. SUIVRE LES PRÉCAUTIONS DANS LE PRÉSENT MANUEL, SUIVRE DES PRÉCAUTIONS LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, DU LORSQU'UN SANS-BOIS FONCTIONNELMENT EST SUSPECT.

POWER SAVING FUNCTION

The unit supports the computers corresponding to the "Power Saving Function".

Power saving operation

- The H sync or V sync is not present.



The unit goes into suspend mode.

- Both the H sync and V sync are not present.



The unit goes into active-off mode.

Note

As this unit has the Power Saving Function, if you turn on the unit with no signal input, the unit goes into Power Saving mode and waits for an input signal.

CAUTION

Turn power off and disconnect the power cord when you will disassemble the unit since.

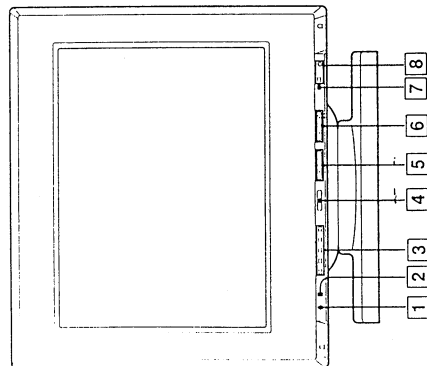
TIMING SPECIFICATION

Mode	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Resolution (HxV)	720x400	640x480	800x600	832x624	1120x750	1024x768	1024x768	1152x900	1280x1024	1280x1024	1152x870	1152x900	1280x1024	1280x1024
Dot Clock (MHz)	28.322	31.500	50.000	57.283	78.430	75.000	78.750	92.940	108.180	108.180	100.000	105.561	135.000	140.000
Horizontal														
Hor. freq. (kHz)	31.469	37.500	48.077	49.725	50.019	56.746	60.023	61.795	63.337	63.337	68.681	71.713	78.855	81.967
H-total	31.777	26.667	20.800	20.111	19.992	17.707	16.660	16.182	15.789	15.789	14.560	13.945	12.681	12.200
H-blanking	6.355	6.349	4.800	5.586	5.712	4.053	3.657	3.787	3.956	3.956	3.040	3.031	3.200	3.057
H-Front porch	0.636	0.508	1.120	0.559	2.193	0.320	0.203	0.301	0.407	0.407	0.320	0.152	0.237	0.229
H-Sync. width	3.813	2.032	2.400	1.117	1.428	1.813	1.219	1.377	1.701	1.701	1.280	0.909	1.067	1.257
H-Back porch	1.907	3.810	1.280	3.910	2.091	1.920	2.235	2.109	1.849	1.849	1.440	1.970	1.896	1.571
H-Active	25.422	20.317	16.000	14.524	14.280	13.653	13.003	12.395	11.832	11.832	11.520	10.913	9.481	9.143
(μ sec)														
Vertical														
Ver. freq. (Hz)	70.087	75.000	72.188	74.550	60.047	70.069	75.029	65.950	59.978	59.978	75.062	76.047	74.112	75.966
V-total	449	500	666	667	833	806	800	937	1056	1056	915	943	1064	1079
V-blanking	49	20	66	43	83	38	32	37	32	32	45	43	40	55
V-Front porch	12	1	37	1	27	3	1	2	3	3	3	2	3	3
V-Sync. width	2	3	6	3	10	6	3	4	3	3	3	8	3	3
V-Back porch	35	16	23	39	46	29	28	31	26	26	39	33	34	49
V-Active	400	480	600	624	750	768	768	900	1024	1024	870	900	1024	1024
(Lines)														
Sync.	External	External	External	Internal	External	External	External	External	Internal	External	Internal	External	Internal	Internal
H-Polarity	(-)	(-)	(+)	NA	(-)	(-)	(+)	(-)	NA	(-)	NA	(-)	NA	NA
V-Polarity	(+)	(-)	(+)	NA	(-)	(-)	(+)	(-)	NA	(-)	NA	(-)	NA	NA
Scanning mode	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace	Non-interlace

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Function of Controls



1 RESET button
Press to reset the adjustment data to the factory-preset levels for the input signal being received.

2 CTRL (control) button
To reset all the adjustment data to the factory-preset levels, press the RESET button **1** while holding down this button.

3 Indicator
The indicator corresponding to the item selected with the SELECT button **4** lights up.
CENT: Centering
SIZE: Picture size
GEOM: Picture tilt/Horizontal pincushion
CONV: Convergence
C TEMP: Color temperature

4 SELECT button
Press to select an item.
Hold down for more than 1 second until an indicator lights up, then press repeatedly to select an item **3**.

5 (brightness) buttons
Press + or - to adjust the picture brightness.
When an item is selected, use these buttons to adjust the picture size and centering in the vertical direction and the picture tilt.

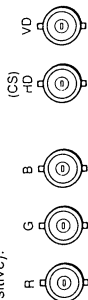
6 (contrast) buttons
Press + or - to adjust the picture contrast.
When an item is selected, use these buttons to adjust the picture size and centering in the horizontal direction, the horizontal pincushion and the colour temperature.

7 POWER SAVING indicator
Lights up when the monitor is in Power Saving Mode.
Blinks when you reached the limit of the adjustable range or while in resetting mode.

8 power switch and indicator
Press to turn the monitor on or off. The indicator lights up when the monitor is turned on. To disconnect the power supply, disconnect the AC power cord.

9 AC IN connector
Plug in an AC power cord.

10 Video input connector (5 BNC)
The connector accepts RGB video signals (0.714 Vp-p, positive).



Note
If you use a computer or video board of high output level (about 1.0 Vp-p), you may not be able to obtain the optimum display. In such case, try decreasing the picture contrast, or use a computer or video board with a lower output level.

11 75Ω/2 kΩ selector
Switches the impedance of the video input connector **10** termination to 75Ω or to 2 kΩ. When external sync signals are input, normally set this selector to the 75Ω position. If good synchronization cannot be obtained, set this selector to the 2 kΩ position.

12 SERVICE button and terminal
The button and the terminal are to be used by service personnel only.

Function of Controls



1. **Power Switch**
Used to turn the system on or off. It is usually located on the front panel of the control unit.

2. **Mode Selector**
Used to select the operating mode of the system. It is usually located on the front panel of the control unit.

3. **Parameter Setting**
Used to set the parameters of the system. It is usually located on the front panel of the control unit.

4. **Display**
Used to display the status of the system. It is usually located on the front panel of the control unit.

5. **Emergency Stop**
Used to stop the system in an emergency. It is usually located on the front panel of the control unit.

6. **Reset**
Used to reset the system after a fault. It is usually located on the front panel of the control unit.

7. **Alarm**
Used to indicate a fault in the system. It is usually located on the front panel of the control unit.

8. **Test**
Used to test the system. It is usually located on the front panel of the control unit.

9. **Temperature Control**
Used to control the temperature of the system. It is usually located on the front panel of the control unit.

10. **Pressure Control**
Used to control the pressure of the system. It is usually located on the front panel of the control unit.

11. **Flow Control**
Used to control the flow of the system. It is usually located on the front panel of the control unit.

12. **Level Control**
Used to control the level of the system. It is usually located on the front panel of the control unit.

13. **Position Control**
Used to control the position of the system. It is usually located on the front panel of the control unit.

14. **Speed Control**
Used to control the speed of the system. It is usually located on the front panel of the control unit.

15. **Acceleration Control**
Used to control the acceleration of the system. It is usually located on the front panel of the control unit.

16. **Deceleration Control**
Used to control the deceleration of the system. It is usually located on the front panel of the control unit.

17. **Brake Control**
Used to control the brake of the system. It is usually located on the front panel of the control unit.

18. **Clutch Control**
Used to control the clutch of the system. It is usually located on the front panel of the control unit.

19. **Release Control**
Used to control the release of the system. It is usually located on the front panel of the control unit.

20. **Lock Control**
Used to control the lock of the system. It is usually located on the front panel of the control unit.

21. **Unlock Control**
Used to control the unlock of the system. It is usually located on the front panel of the control unit.

22. **Open Control**
Used to control the open of the system. It is usually located on the front panel of the control unit.

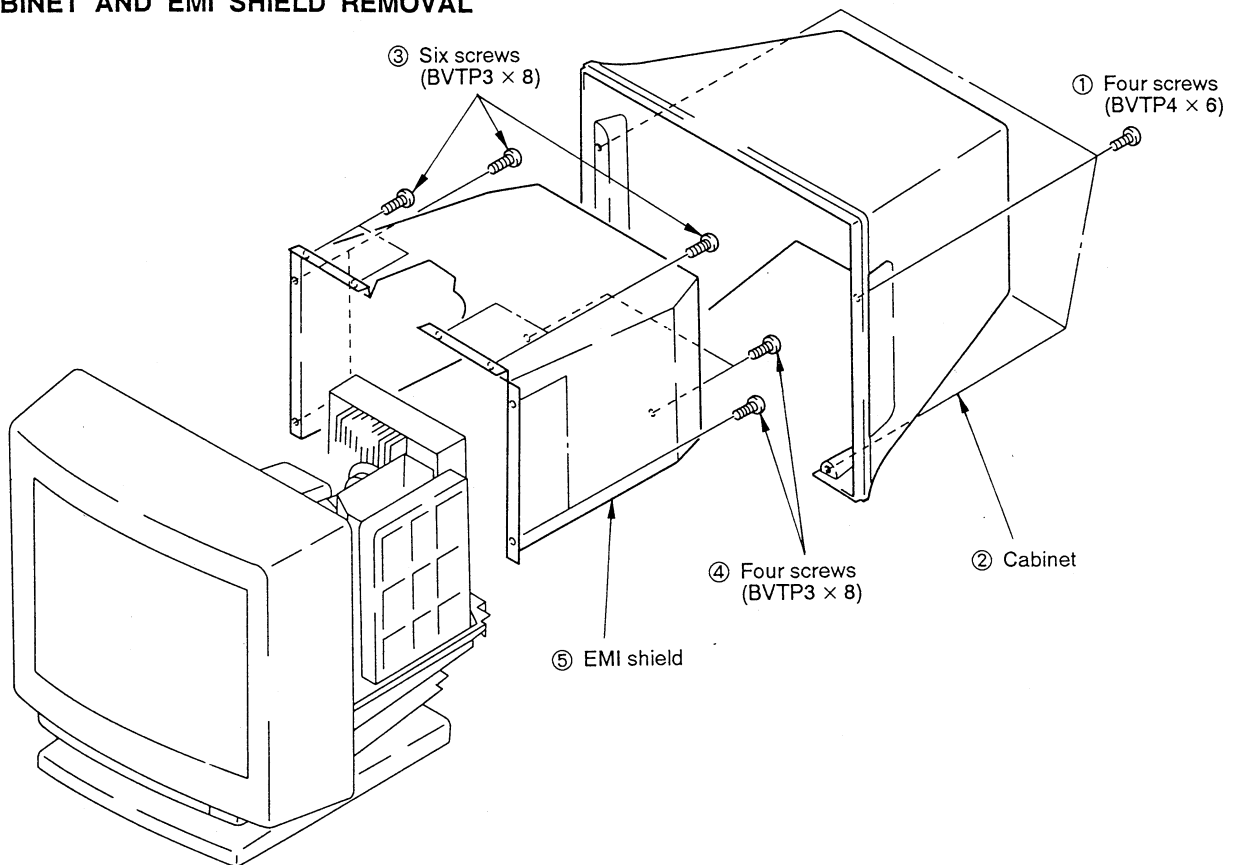
23. **Close Control**
Used to control the close of the system. It is usually located on the front panel of the control unit.

24. **Stop Control**
Used to control the stop of the system. It is usually located on the front panel of the control unit.

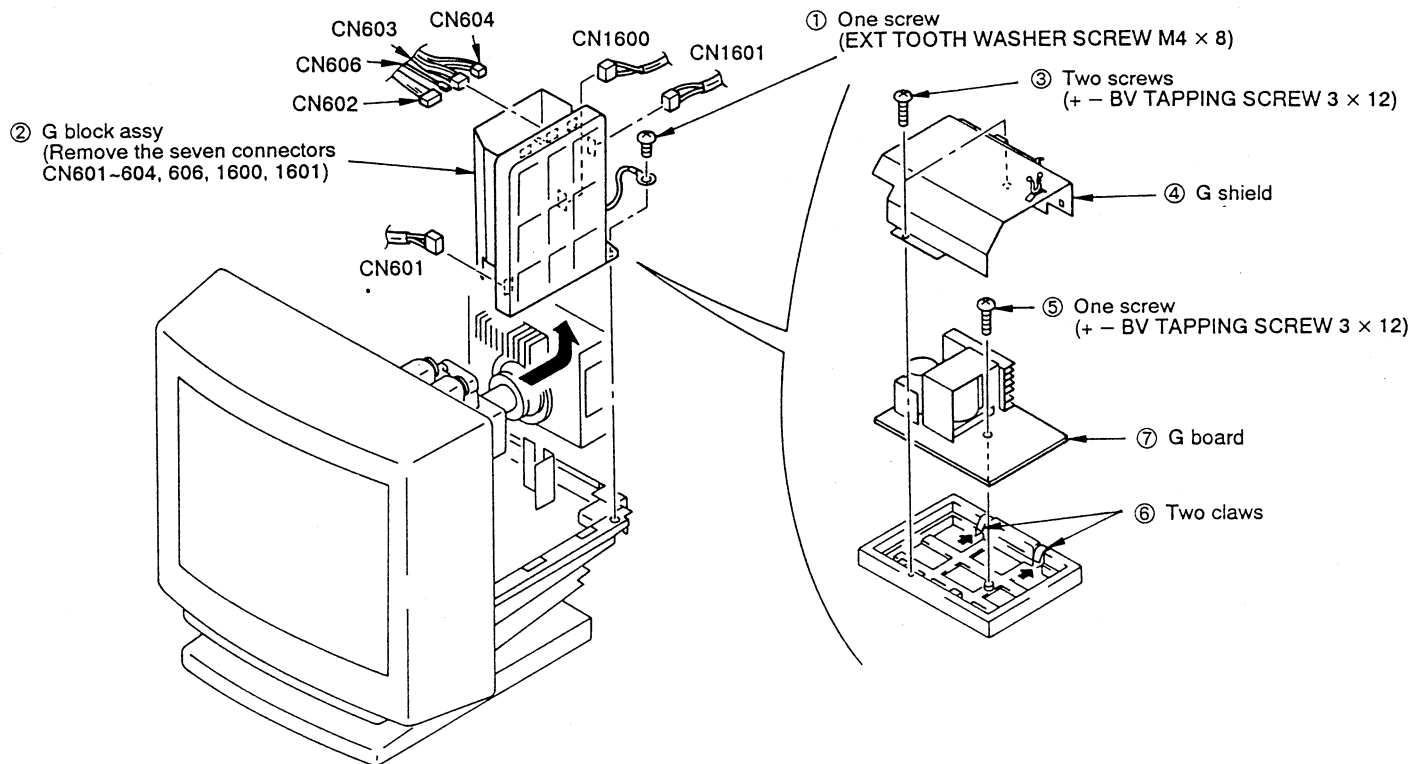
25. **Start Control**
Used to control the start of the system. It is usually located on the front panel of the control unit.

SECTION 1 DISASSEMBLY

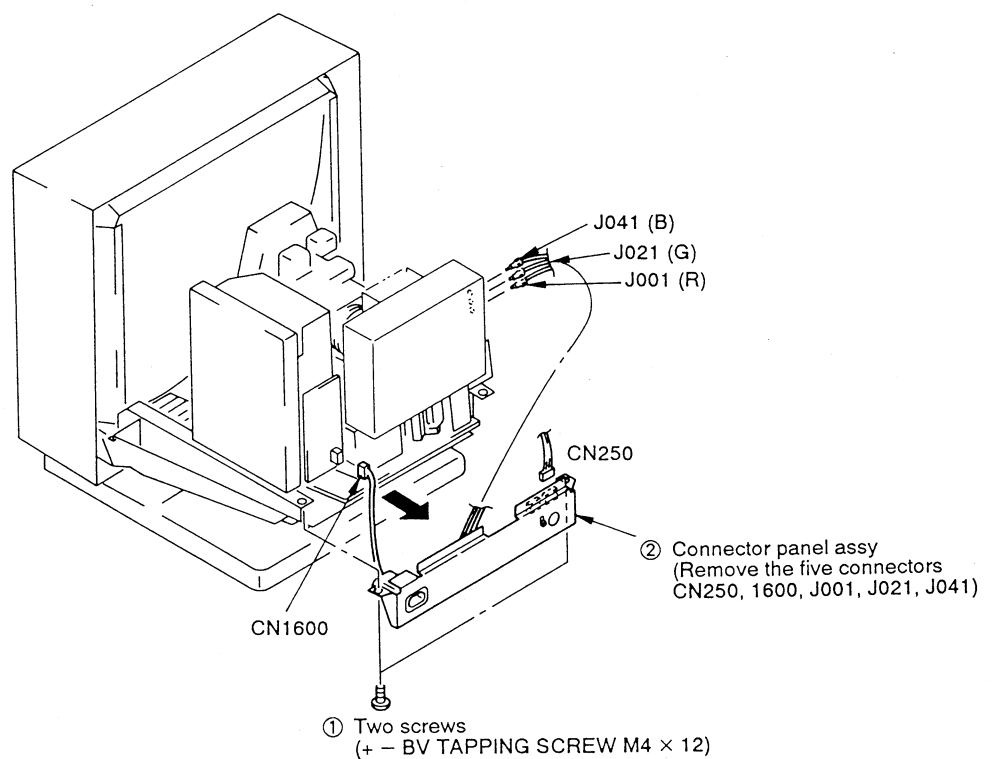
1-1. CABINET AND EMI SHIELD REMOVAL



1-2. G BLOCK ASSY REMOVAL

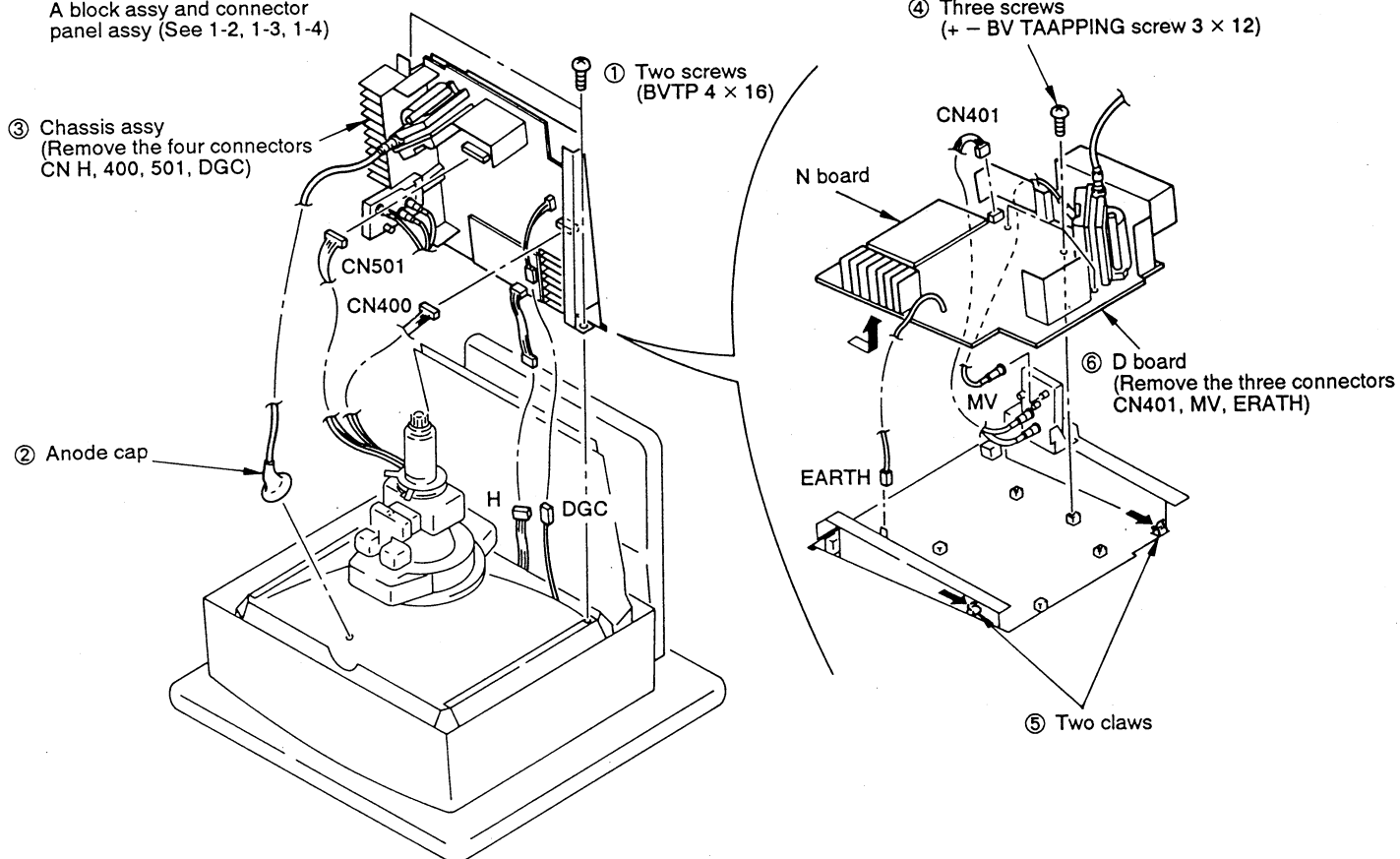


1-4. CONNECTOR PANEL ASSY REMOVAL



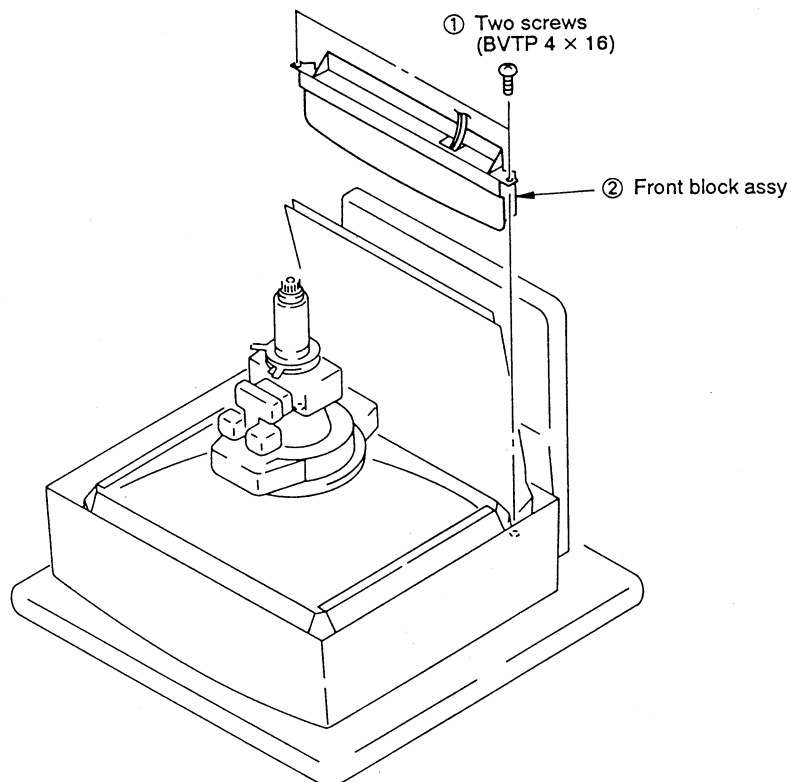
1-5. CHASSIS ASSY REMOVAL

※ Remove the G block assy,
A block assy and connector
panel assy (See 1-2, 1-3, 1-4)

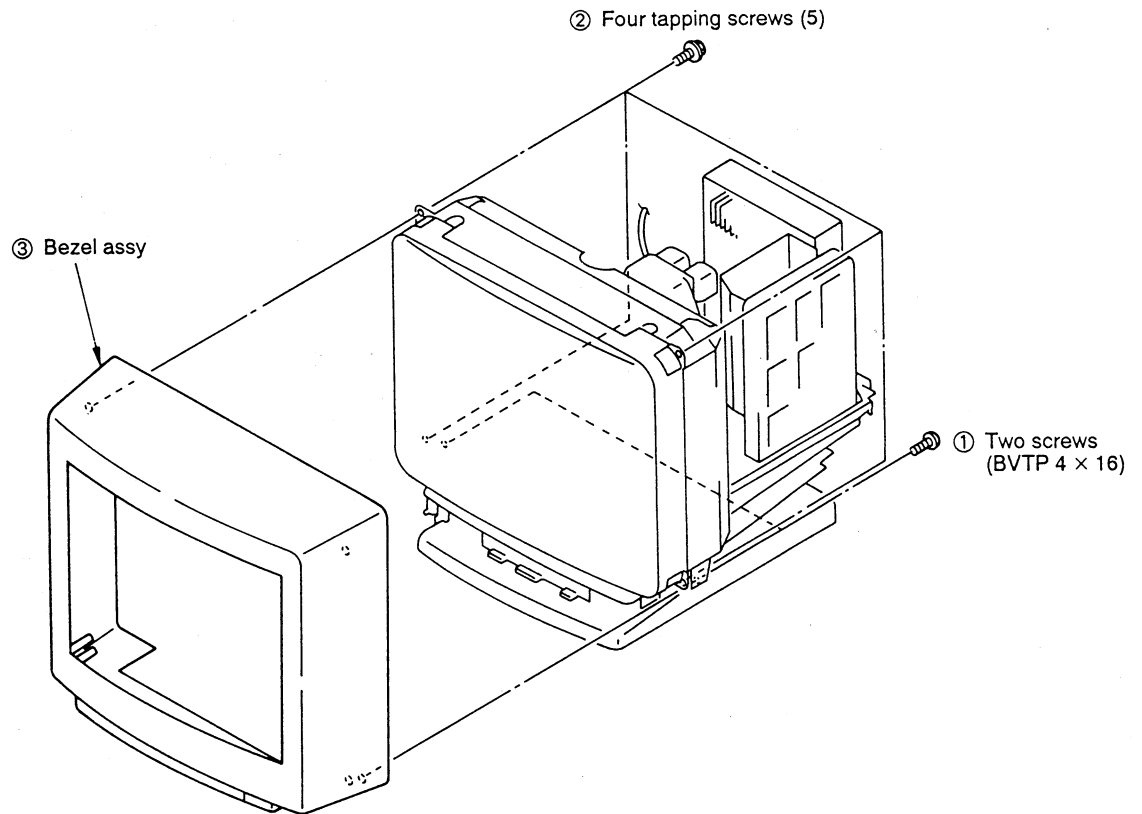


1-6. FRONT BLOCK ASSY REMOVAL

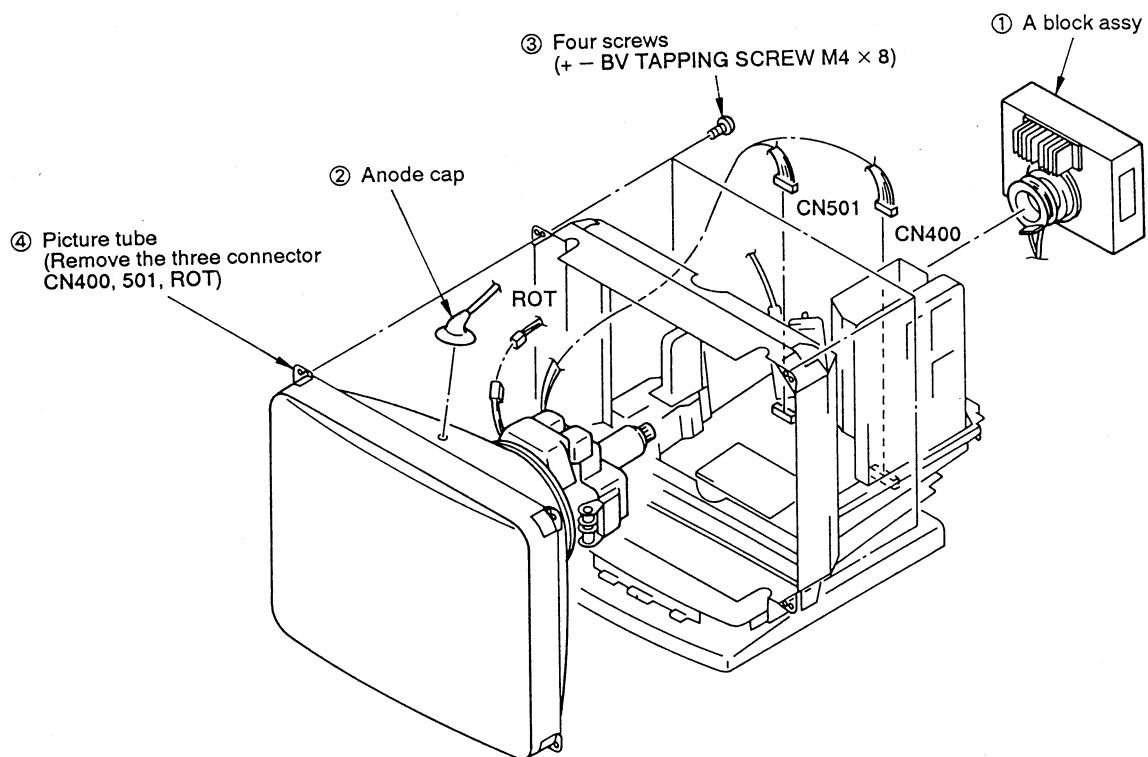
※ Remove the chassis assy
(See 1-5)



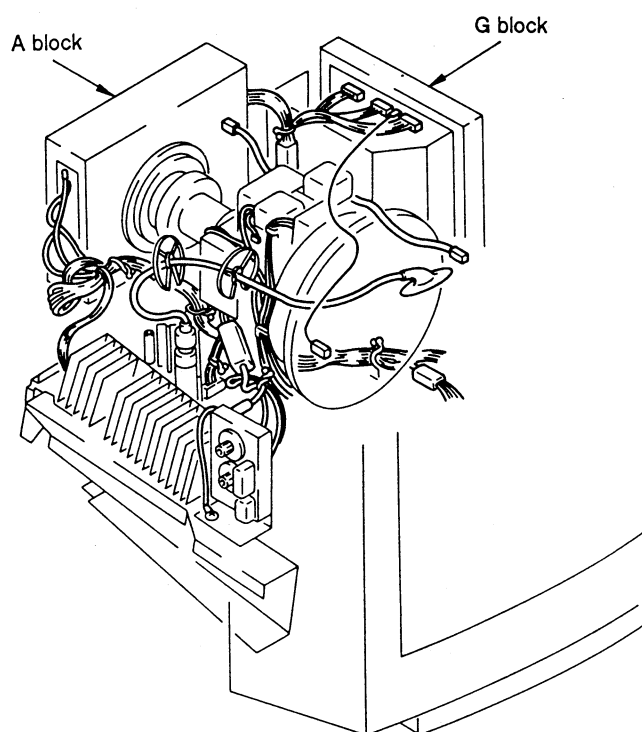
1-7. BEZEL ASSY REMOVAL



1-8. PICTURE TUBE REMOVAL



1-9. WIRING HARNESS LAYOUT



SECTION 2

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.

HV Regulator Circuit Check	D board----- IC804, T800 • Mounted D board
HV. Hold-Down Circuit Check	D board----- IC804, R826, R832, R842, R843, T800 • Mounted D board
Beam Current Protector Circuit Check	D board----- IC804, T800 • Mounted D board
B+ Regulator Circuit Check	G board----- IC602, IC603, R630 • Mounted G board • Power Supply Block
OVP Circuit Check	G board----- D620, R631, R633, R635, Q610 • Mounted G board • Power Supply Block

a) HV Regulator Check

- 1) Input a white dot signal and set the contrast and bright to the minimum level.

check point

pin ② of CN801 , $9.00^{+0.06}_{-0.06}$ VDC

b) HV Hold-Down Check

- 1) Check if the raster disappears when the voltage less than 8.80 VDC is applied between pin ⑤ of CN801 and GND from the external power source.

c) Beam Protector-1 and Protector-2 Check

- 1) Record the initial value of ABL-SHUTDOWN, input the "255" for resistor value.
- 2) Reduce the resistance gradually from the maximum level using a variable resistor of more than 12 [K-ohm] and an ampermeter connected in series between pin ① of CN801 and GND.
- 3) Check that the protector circuit operates to disappear the raster when the current level drops less than 1.36 mA.
- 4) Back the value of ABL-SHUTDOWN to the initial regulation value.

d) B+ Regulator Circuit Check

- 1) Input a white dot signal and set the contrast and bright to the minimum level.

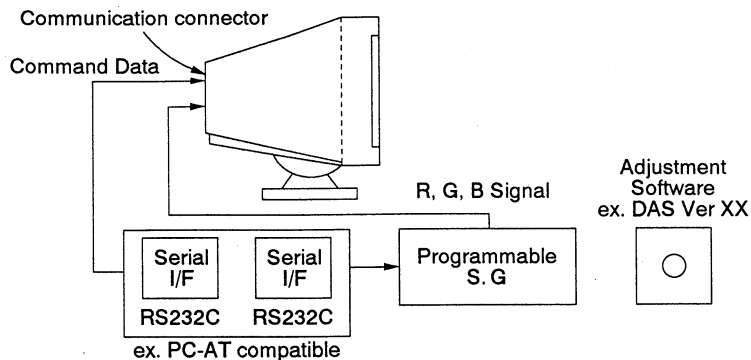
check point

pin ① of CN602, 144.0 ± 3 VDC

SECTION 3

ADJUSTMENTS

Connect the communication cable of the computer (ex. PC-AT) to the connector located on the rear side of the monitor. Run the service software and then follow the instruction.



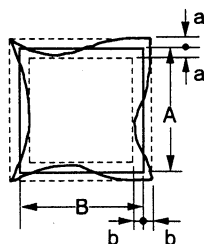
● White Balance Adjustment Specification

Adjustments Procedure	Input signal	Value of CONT, BRT	Adjust point	Specification
Color mode "H" (9300K)				
1	Glaz	BRT-110 CONT-255	G2	Green become to be visible.
2	ALL Black	BRT-255 CONT-0	R. CUT MAX, G. CUT MAX, B. CUT MAX	$0.283 \pm 0.010, 0.298 \pm 0.010$ (x, y) $Y=4^{+1.5}_{-0.5}$ cd/m ²
3	Glaz	BRT-80, G. CUT MIN CONT-255 *Note 1	R. CUT MIN B. CUT MIN	$0.283 \pm 0.010, 0.298 \pm 0.010$ (x, y)
4	ALL White	BRT-80 CONT-255 *Note 2	R-DRV, B-DRV, G-DRV	$0.283 \pm 0.010, 0.298 \pm 0.010$ (x, y) $Y=100 \pm 1$ cd/m ²
5	ALL White	CONT-0 BRT-80	CONT MIN/BRT MAX CONT MIN/BRT MIN	$Y=8 \pm 1$ cd/m ²
6			Set CONT MAX/ BRT MAX to 150	
7	ALL White	CONT-255 BRT-255	CONT MAX/BRT MAX	$Y=115 \pm 1$ cd/m ²
8	Save to color and service			
Color mode "M" (6500K)			Copy all data of mode "H"	
1	ALL Black	BRT-255 CONT-0	R. CUT MAX, G. CUT MAX, B. CUT MAX	$0.313 \pm 0.010, 0.329 \pm 0.010$ (x, y) $Y=4^{+1.5}_{-0.5}$ cd/m ²
2	Glaz	BRT-80, G. CUT MIN CONT-255 *Note 1	R. CUT MIN B. CUT MIN	$0.313 \pm 0.010, 0.329 \pm 0.010$ (x, y)
3	ALL White	BRT-80 CONT-255 *Note 3	R-DRV, G-DRV, B-DRV	$0.313 \pm 0.010, 0.329 \pm 0.010$ (x, y) $Y=85 \pm 1$ cd/m ²
4	ALL White	CONT-0 BRT-80	CONT MIN/BRT MAX CONT MIN/BRT MIN	$Y=8 \pm 1$ cd/m ²
5			Set CONT MAX/ BRT MAX to 150	
6	ALL White	CONT-255 BRT-255	CONT MAX/BRT MAX	$Y=100 \pm 1$ cd/m ²
Color mode "L" (5000K)			Copy all data of mode "M"	
1	ALL Black	BRT-255 CONT-0	R. CUT MAX, G. CUT MAX, B. CUT MAX	$0.345 \pm 0.010, 0.358 \pm 0.010$ (x, y) $Y=4^{+1.5}_{-0.5}$ cd/m ²
2	Glaz	BRT-80, G. CUT MIN CONT-255 *Note 1	R. CUT MIN B. CUT MIN	$0.345 \pm 0.010, 0.358 \pm 0.010$ (x, y)
3	ALL White	BRT-80 CONT-255 *Note 2	R-DRV, G-DRV, B-DRV	$0.345 \pm 0.010, 0.358 \pm 0.010$ (x, y) $Y=75 \pm 1$ cd/m ²
4	ALL White	CONT-0 BRT-80	CONT MIN/BRT MAX CONT MIN/BRT MIN	$Y=8 \pm 1$ cd/m ²
5			Set CONT MAX/ BRT MAX to 150	
6	ALL White	CONT-255 BRT-255	CONT MAX/BRT MAX	$Y=90 \pm 1$ cd/m ²

*Note 1 : $\frac{110 \times 255 - 80 \times [\text{G. CUT MAX Value}]}{175}$

*Note 2 : Return to 3 for tracking. *Note 3 : Return to 2 for tracking.

• Vertical and Horizontal Position and Size Specification

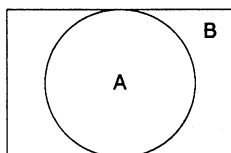


$$a < 2.8 \text{ mm}$$

$$b < 2.8 \text{ mm}$$

mode	A	B
16 × 12 16 × 10	360	270
20 × 16	350	280

• Convergence Specification



$$A \leq 0.30 \text{ mm}$$

$$B \leq 0.40 \text{ mm}$$

• Geometric Adjustment Methods (All BUS cont)

1. V-CENT ADJ
2. V-SIZE ADJ
3. V-KEY ADJ
4. V-LIN BALANCE ADJ
5. V-LIN ADJ
6. H-CENT ADJ
7. H-POS1 ADJ
8. H-SIZE ADJ
9. KEY BALANCE ADJ
10. KEY ADJ
11. SIDE PIN BALANCE ADJ
12. PIN AMP ADJ
13. S-LINE ADJ
14. SEXY-LINE ADJ

1. CONVERGENCE ROUGH ADJUSTMENT

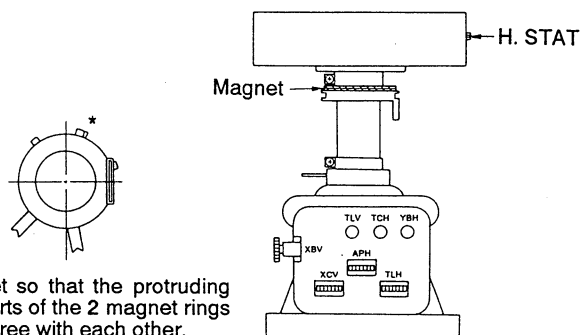
- (1) Receive an image of the white crosshatch signals.
- (2) Place the protrusions of the 6-fold poles magnet attached to the CRT neck upon each other (See figure).
- (3) Make rough adjustment of the H direction convergence by using H. STAT VR (right side of the video case).
- (4) Make a rough adjustment of the V direction convergence by using "V. STAT".

2. CONVERGENCE FINE ADJUSTMENT

- (1) Input white crosshatch signals (white lines on black) in the prime mode.
Adjust the screen size to 360 × 280.
- (2) Confirm that the values of "H. CONV" and "V. CONV" are "0" (center).
- (3) Turn the magnet ring (6-fold poles) behind DY and correct to zero. (See figure.)
- (4) Turn the H. STAT VR and set the parallel lines of the 3 colors R, G and B (vertical lines). Set the parallel lines of the 3 colors R, G and B with "V. CONV" (horizontal lines).
- (5) Turn the magnet ring (6-fold poles) behind the neck assembly and adjust so that the R-G distance of the parallel lines of the 3 colors and the B-G distance become identical (See figure 2).
- (6) Return the value of H. STAT VR and "V. CONV" used in (3) and set the misconvergence of the center of the screen to zero.

(7) Fine adjustment of convergence

- a) Set "V. CONV TOP" and "V. CONV BOT" to zero.
 - b) Turn the XBV reactor and adjust the XBV misconvergence.
(The reactor on the far left side of the upper circuit board when seen from the CRT side.)
 - c) Turn the XCV reactor and adjust the XCV misconvergence.
(The reactor on the near left side of the upper circuit board when seen from the side.)
- Note: When adjusting XBV, the "V. CONV" shall be reajusted.
When XCV exceeds the adjustment range, oscillate the upper and lower parts of DY and adjust.
- d) Turn the APH reactor and adjust th H. AMP misconvergence.
(The near center reactor of the upper circuit board when see from the CRT tube side.)



- e) Turn the TLH reactor and adjust the H. TILT misconvergence.
(The near right side reactor of the upper circuit board when seen from the CRT tube side.)
(Note: Readjust H. STAT VR too.)
- f) Adjust the YBH misconvergence with the VR YBH on the DY.
(The far right side VR when seen from the CRT tube side.)
- g) Adjust the YCH misconvergence with the VR YCH on DY.
(The far center VR when seen from the CRT tube side.)
- h) Adjust "V. CONV BOT".
- i) Adjust "V. CONV TOP".
- j) Adjust the upper and lower TLV with VR TLV on DY as necessity required.
(The far left side VR when seen from the CRT tube side.)
(Note: When the horizontal trapezoid does not agree with the specification, carry out left and right oscillation and tracking of DY.)
- k) Confirm the convergence of the whole screen, and carry out H. STAT correction and the operations of c) - k), and Permalloy correction.
- l) Confirm the convergence of the whole screen.
- m) Switch the mode between the prime mode and the convergence check mode (see table on P. 41-2), and confirm the convergence in each mode after having carried out fine adjustment with H. STAT and V. STAT on the front panel.
- n) Fix the 2 places of the XBV, XCV, APH and TCH reactors and the 6-fold poles with a white pen.
- o) Fix the DV spacer (large) and the Permalloy with RTV.

SECTION 4

TROUBLESHOOTING

This diagnostic troubleshooting guide uses the monitor symptom as a clue for selecting a repair procedure. Select the listed symptom closest to that of your monitor and follow the procedure given for that symptom in this troubleshooting guide. If the same trouble recurs even after you have changed a block or part, re-install the original block or part, then proceed to the next step.

Symptoms

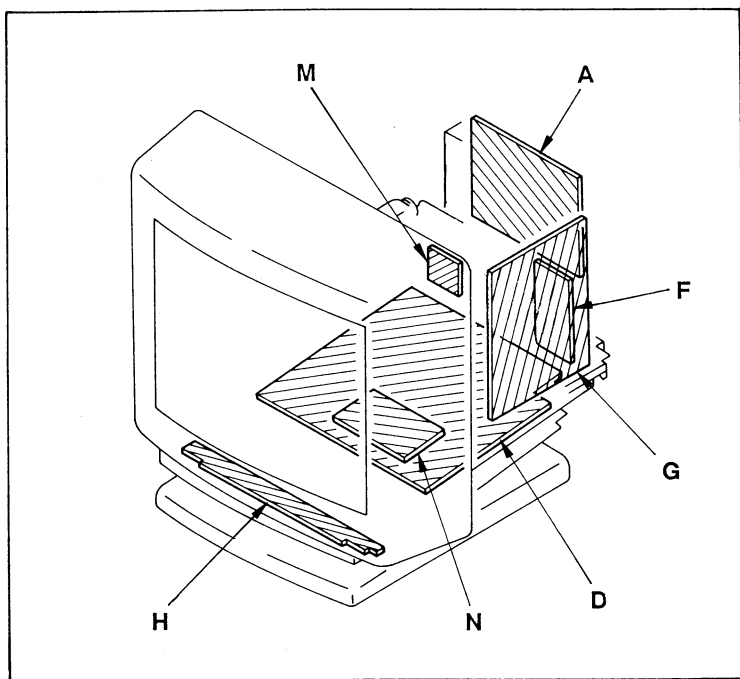
- No Power
- Sametime shutdown after work while
- Abnormal coil demagnetization
- No Picture
- Display area too small/large/short/tall/
narrow/wide
- Horizontal distortion
- Vertical distortion
- Picture tilted
- Picture flickers
- Brightness can not be adjusted
- Contrast can not be adjusted
- Picture too bright/dark

Repair Procedure

1. Check whether the internal power supply connector is connected.
 2. Inspect the power supply fuse.
→ If it has blown, change it. If it blows again, proceed to the next step.
 3. Change the Power block.
 4. Change the D board block.
1. Check the hold down voltage.
 2. Change the high voltage capacitor. C805
 3. Change the D board block.
1. Change the Power block.
1. Adjust the CONTRAST control.
 2. Confirm the input signal.
 3. Confirm connector between power block and D board.
 4. Inspect the power supply fuse.
→ If it has blown, change it. If it blows again, proceed to the next step.
 5. Change the Power block.
 6. Change the D board block.
 7. Change the A board.
 8. Change the U board.
 9. Change the CRT.
1. Adjust the horizontal or vertical size.
 2. Change the D board block.
1. Re-adjust using the service software.
 2. Change the D board block.
1. Re-adjust using the service software.
 2. Change the D board block.
1. Make the tilt adjustment.
1. Check the fastening of the ground line.
 2. Check the grounding of the connected computer.
 3. Change the D board Block.
1. Change the A board.
 2. Change the H board.
1. Change the A board.
 2. Change the H board.
1. Adjust the BRIGHTNESS control.
 2. Adjust the white balance.
 3. Adjust the CONTRAST and BRIGHT controls.
 4. Change the A board.
 5. Change the Power block.
 6. Change the CRT.

For picture size, picture distortion, and other specifications, place the ball chart on the set and check and adjust.

5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF : μF
- 50 WV or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- Circled numbers are waveform references.
- : B + bus.
- : B - bus.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

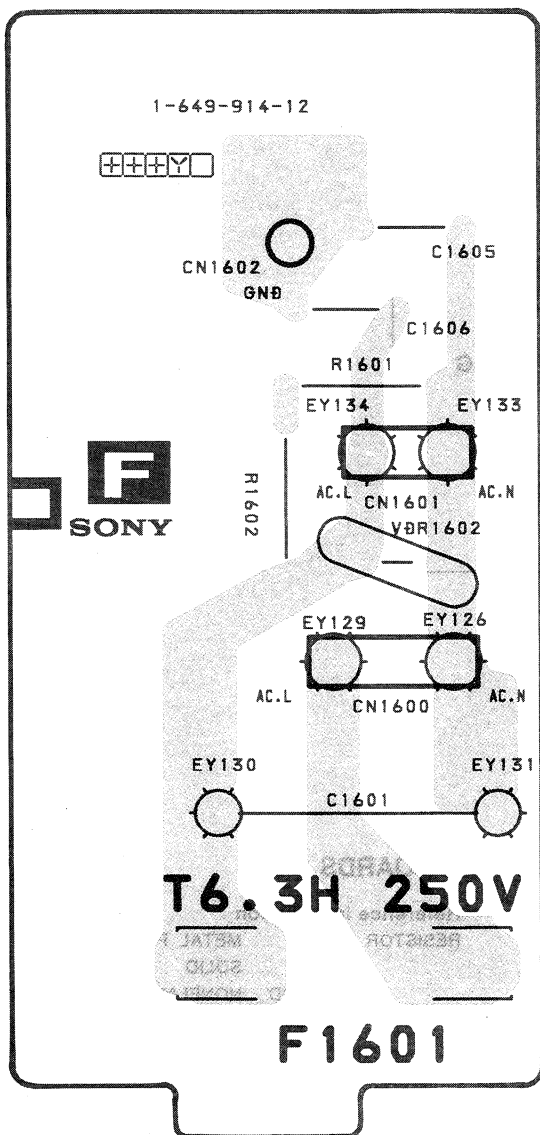
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: 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.

F

[AC IN]

- F Board -



• D BC

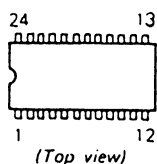
IC401
IC404
IC406
IC407
IC408
IC409
IC410
IC500
IC501
IC502
IC503
IC505
IC506
IC801
IC802
IC803
IC804
IC806

TRAN:

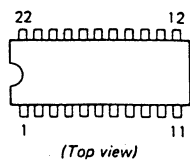
Q402
Q403
Q404
Q406
Q408
Q409
Q410
Q411
Q412
Q506
Q511
Q512
Q513
Q514
Q515
Q517
Q518
Q519
Q520
Q521
Q522
Q801
Q802
Q803
Q804
Q805
Q806
Q807
Q809
Q810
Q811
Q812
Q1501
Q1603
Q1606
Q1607

5-5. SEMICONDUCTORS

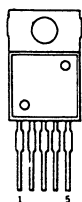
CXA1544P



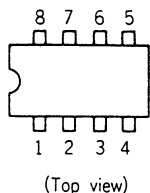
CXA1616S



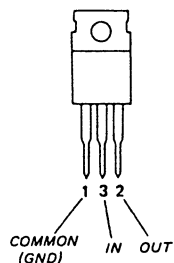
LA6500-FA



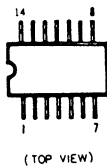
LM358P
LM2903DQ
LM2903P
SN751701PS-ELL2000
TL082ACP
TL082CP
μPC358C



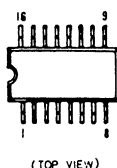
LM7912CT
MC7908CT
MC7912CT
NJM79M08FA



MC14066BF
MC74HC00AF
SN74HC02ANS



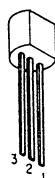
MC74HC595AF
MC74HC597F-T2



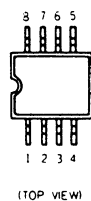
MC7805CT



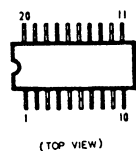
NJM78L05A



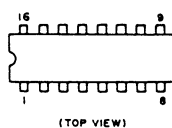
RC4558PS
TL082CPS
TL082M



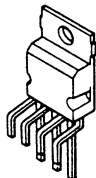
SN74HC74ANS



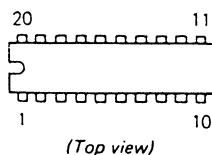
TC4049BP



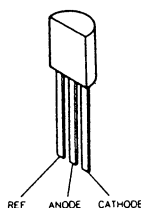
TDA8172



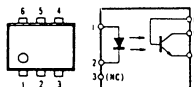
TDA9102C



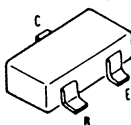
TL431CLP



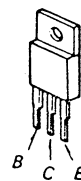
PC111YS



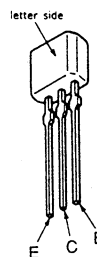
DTC124EK
DTC143TK
2SA1037K-QR
2SA1162-Q
2SC1623-L5L6
2SC2412K-QR



IRFI9620
2SC3746



2SA1175-HFE
2SA1309A
2SC2785-HFE
2SC3311A



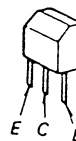
2SC2909



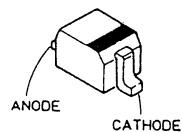
2SD1309



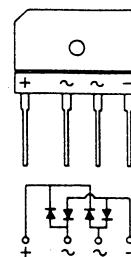
2SC3209LK
2SD774-34



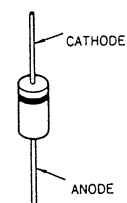
DTZ5.6B
MA110



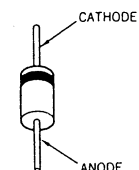
D4SB60L



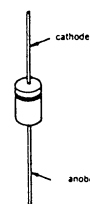
EGP20G
ERA15-01TP1
ERA34-10
ERB91-02
EU-2
GP08D
HSM83
RGP15G
1SS83
10E2



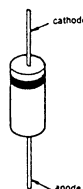
EGP30G
RGP02-17
RGP02-17EL-6433



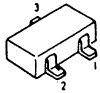
ERC91-02
RGP02-20EL-6394



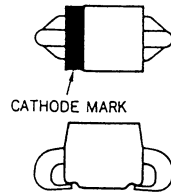
ERD09-15J



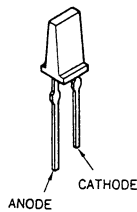
MA153
1SS226



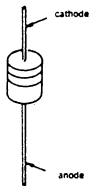
SC015-2



SEL1422G-C, D
SEL1922D-C



RD13ES-B2
RD16ES-B3
RD18ES-B2
RD2.0ES-B2
RD3.6ES-B2
RD4.7ES-B2
RD5.1ES-B2
RD5.6ES-B2
1SS119



FRU LIST

1)	VIDEO AMP, MCB ASSY (A)	8-934-583-00
2)	DEFLECTION MCB ASSY (D)	8-934-704-00
3)	POWER BLOCK (G+F)	8-934-585-00
4)	CONTROL PANEL ASSY (H)	8-934-705-00
5)	MICON MCB (N)	8-934-707-00
6)	CONNECTOR PANEL ASSY (M)	8-934-708-00
7)	MAIN HARNESS	1-900-076-09
8)	SUB HARNESS	1-900-048-40
9)	CABLE ASSY	A-1500-655-A
10)	FOCUS VR PACK	1-223-417-11
11)	ITC ASSY (CRT, DY, NA)	8-736-050-90
		8-736-048-90 (GDM-20E01T)
12)	BEZEL ASSY	X-4031-591-1
13)	CABINET ASSY	X-4031-590-1
14)	STAND ASSY	A-1481-666-A
15)	EMI SHIELD	X-4031-649-1
16)	PROTECTION BAG	4-368-079-01
17)	CUSHION UPPER	4-043-390-01
18)	CUSHION LOWER	4-043-391-01
19)	CARTON	4-044-296-01
20)	STAND PAD	4-041-505-01
21)	JOINT	4-396-077-01
22)	TRAY	4-038-264-01

SECTION 6

EXPLODED VIEWS

NOTE:

- 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.

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

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

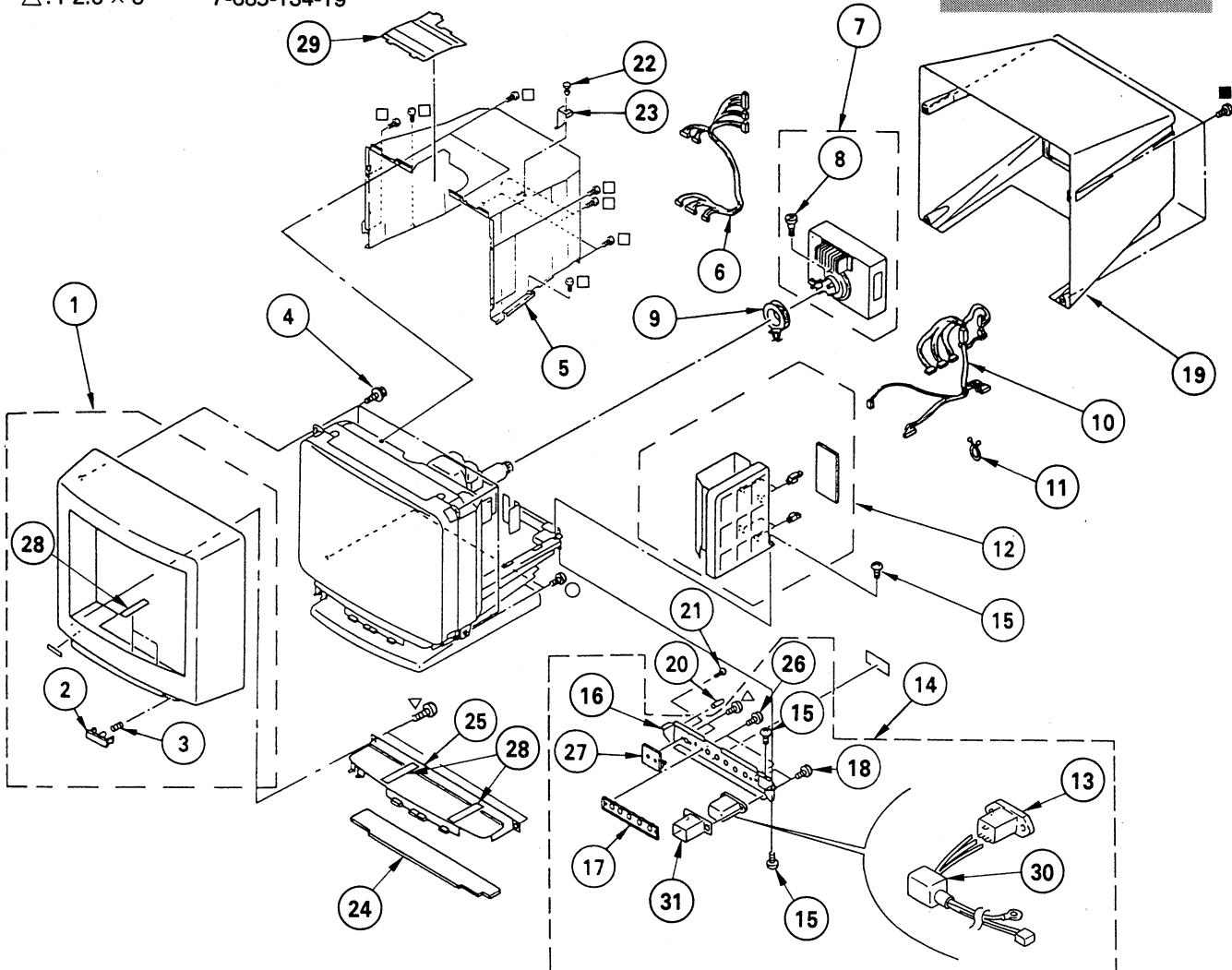
6-1. CHASSIS

□: + - BV TAPPING SCREW (M4 × 8) 7-682-561-04

■: BVTP4 × 16 7-685-663-79

○: + - BV TAPPING SCREW (M4 × 12) 7-682-563-04

△: P2.6 × 8 7-685-134-19



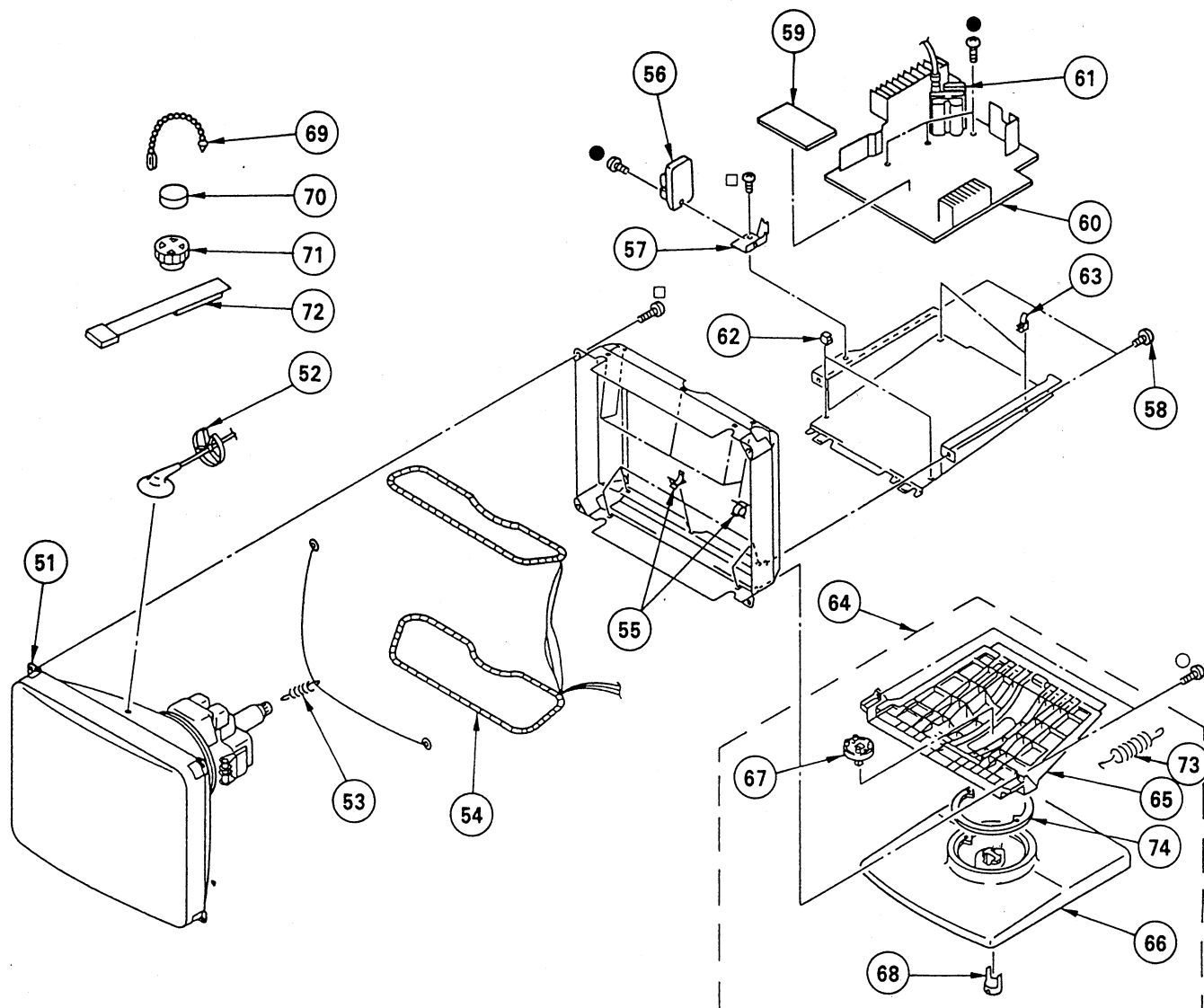
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4031-591-1	BEZEL ASSY	2,3	15	4-389-025-01	SCREW (M4X8)(EXT TOOTH WASHER)	
2	4-042-674-01	BUTTON, POWER		16	*4-043-076-01	PANEL (STD), CONNECTOR	
3	3-571-801-01	SPRING, COMPRESSION		17	1-537-583-11	TERMINAL BOARD ASSY, I/O	
4	4-365-808-01	SCREW (5), TAPPING		18	4-381-960-31	SCREW (M3X12), TAPPING, (+-) (BV)	
5	X-4031-649-1	SHIELD ASSY, EMI		19	X-4031-590-1	CABINET ASSY	
6	1-900-076-09	CONNECTOR ASSY (MAIN HARNESS)		20	4-038-522-01	CAP (VISC)	
7	8-934-583-00	VIDEO AMP, MCB ASSY (A BOARD)		21	4-043-000-01	PLUG	
8	4-041-627-01	SCREW (M4X20), HEXAGON HEAD		22	4-374-303-01	RIVET, NYLON	
9	△.1-452-729-11	NECK ASSEMBLY, PICTURE TUBE (NA3011)		23	4-043-404-01	HOLDER, G BRACKET	
10	1-900-048-40	CONNECTOR ASSY, MICRO 8P (SUB HARNESS)		24	8-934-705-00	CONTROL PANEL ASSY (H BOARD)	
11	3-701-417-00	PURSE LOCK (11 DIA.)		25	X-4031-589-1	BOX ASSY, CONTROL	
12	△.8-934-585-00	POWER BLOCK (G BOARD)		26	4-034-937-21	SCREW (M3), TAPPING	
13	△.1-251-141-11	INLET, AC (3P)		27	8-934-744-00	M BOARD, COMPLETE	
14	8-934-708-00	CONNECTOR PANEL ASSY (M BOARD)		28	*9-911-844-XX	CUSHION (SMALL)	
			13, 15-18, 26, 27, 30, 31	29	*4-042-119-01	COVER, ANODE CAP	
				30	*4-605-946-01	COVER, 3P INLET	
				31	*4-044-711-01	HOLDER, INLET	

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

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

6-2. PICTURE TUBE

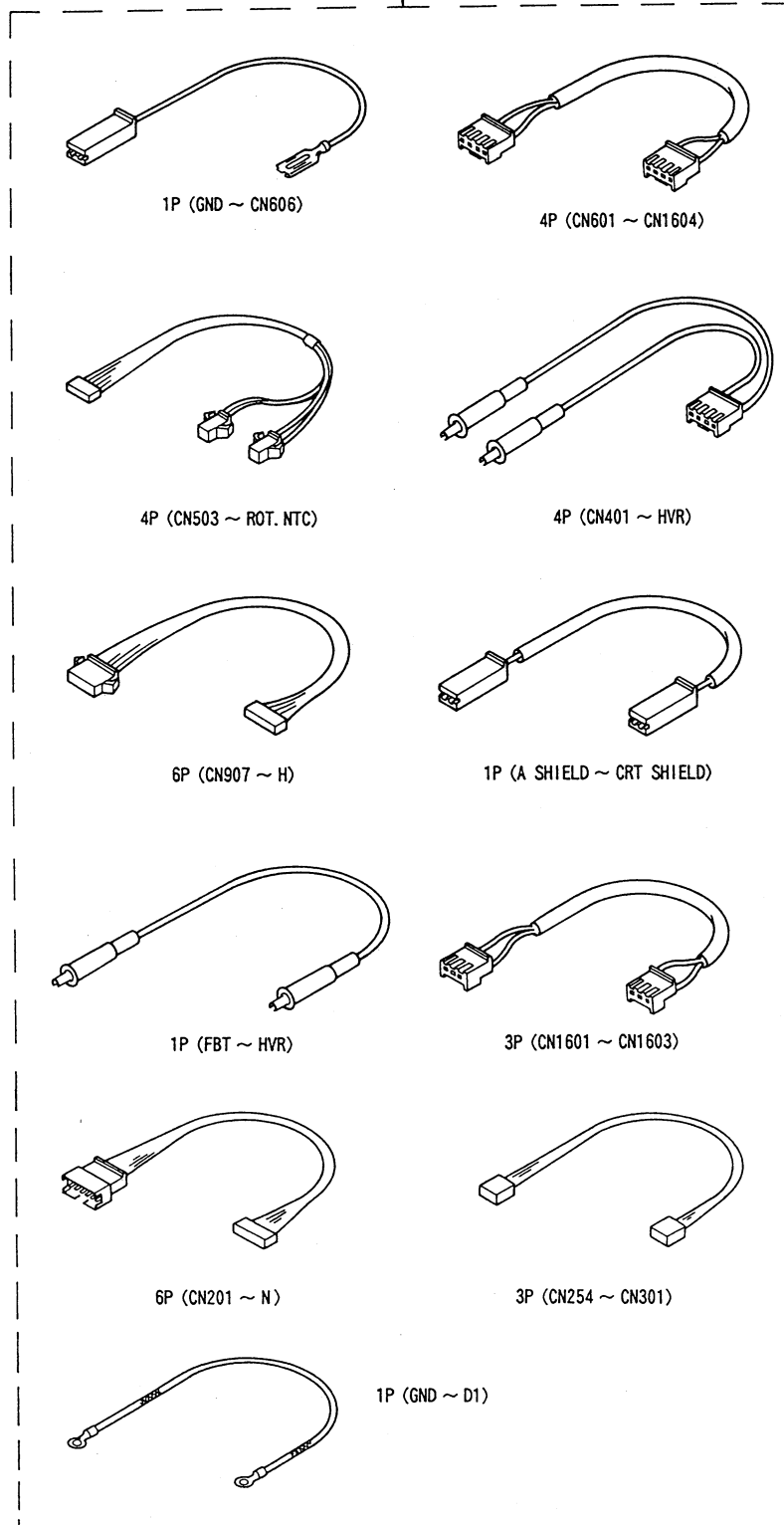
- : + - BV TAPPING SCREW (3 × 12) 7-685-648-79
 □: + - BV TAPPING SCREW (M4 × 8) 7-682-561-04
 ○: + - BV TAPPING SCREW (M4 × 12) 7-682-563-04



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	Δ 8-736-048-90	ITC ASSY (20SQ8-R1) (CRT,DY,NA) (GDM-20E01T)		65	4-041-636-11	COVER, BOTTOM	
	Δ 8-736-050-90	ITC ASSY (20SQ8-R1) (CRT,DY,NA)		66	X-4031-449-2	BASE ASSY, STAND	
52	*3-704-372-01	HOLDER, HV CABLE		67	4-041-623-01	STOPPER (A)	
53	4-369-318-00	SPRING, TENSION		68	4-041-621-01	STOPPER (B)	
54	Δ 1-406-790-31	COIL, DEMAGNETIZATION		69	4-308-870-00	CLIP, LEAD WIRE	
55	*4-395-824-01	HOLDER, DEGAUSSING COIL		70	1-452-032-00	MAGNET, DISK; 10MM ϕ	
56	Δ 1-223-417-11	RESISTOR ASSY (HIGH-VOLTAGE)		71	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
57	4-042-036-01	BRACKET, FOCUS		72	X-4030-584-1	PERMALLOY ASSY, CORRECTION	
58	4-389-025-01	SCREW (M4X8) (EXT TOOTH WASHER)		73	4-042-282-01	SPRING, TENSION	
59	8-934-707-00	MICON MCB (N BOARD)		74	*4-041-625-01	RING, TILT SWIVEL	
60	8-934-704-00	DEFLECTION MCB ASSY (D BOARD)		75	1-540-006-12	CAP ASSY, HIGH-VOLTAGE	
61	Δ 1-453-162-11	TRANSFORMER ASSY, FLYBACK (NX-2780A1)					
62	*3-701-903-11	HOLDER, PC BOARD					
63	*3-703-141-00	HOLDER, PCB					
64	A-1481-666-A	STAND ASSY	65-68,73,74				

6-3. KIT

101



REF.NO.	PART NO.	DESCRIPTION	REMARK
101	A-1500-655-A	CABLE ASSY	

SECTION 7 ELECTRICAL PARTS LIST

F

A

NOTE:

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

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

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

CAPACITORS

• MF : μ F, PF : μ F

COILS

• MMH : mH, UH : μ H

RESISTORS

• All resistors are in ohms
• F : nonflammable

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		F BOARD, COMPLETE *****					
	1-533-250-11	HOLDER, FUSE		C021	1-126-101-11	ELECT 100MF	20% 16V
F1601 Δ	1-576-233-11	FUSE (H.B.C.) (6.3A/250V)		C022	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	4-043-455-01	COVER, FUSE		C025	1-102-157-00	CERAMIC 560PF	10% 500V
		<CAPACITOR>					
	C1601 Δ	1-107-533-11 FILM 1MF 20% 250V		C028	1-163-114-00	CERAMIC CHIP 75PF	5% 50V
	C1605 Δ	1-162-578-51 CERAMIC 0.0047MF 20% 400V		C029	1-136-191-11	FILM 0.22MF	10% 250V
	C1606 Δ	1-162-578-51 CERAMIC 0.0047MF 20% 400V		C030	1-162-117-00	CERAMIC 100PF	10% 500V
		<CONNECTOR>		C031	1-124-667-11	ELECT 10MF	20% 100V
	CN1600	*1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P		C032	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	CN1601	1-691-960-11 PIN, CONNECTOR (PC BOARD) 3P					
		<RESISTOR>		C041	1-126-101-11	ELECT 100MF	20% 16V
	R1601 Δ	1-202-879-91 SOLID 270K 20% 1/2W		C042	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	R1602 Δ	1-202-879-91 SOLID 270K 20% 1/2W		C048	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
		<VARISTOR>		C049	1-136-191-11	FILM 0.22MF	10% 250V
	Δ VDR160	1-807-180-31 VARISTOR ZNR-14DK471U		C050	1-162-117-00	CERAMIC 100PF	10% 500V

	8-934-583-00	VIDEO AMP.MCB (A BOARD)		C060	1-124-667-11	ELECT 10MF	20% 100V
		*****		C061	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	4-382-854-01	SCREW (M3X8), P, SW (+)		C062	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
		<CAPACITOR>		C063	1-124-042-51	ELECT 0.47MF	20% 50V
	C001	1-126-101-11 ELECT 100MF 20% 16V		C067	1-126-803-11	ELECT 47MF	20% 16V
	C002	1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V					
	C003	1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V		C070	1-162-318-11	CERAMIC 0.001MF	10% 500V
	C005	1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V		C071	1-126-803-11	ELECT 47MF	20% 16V
	C006	1-124-667-11 ELECT 10MF 20% 50V		C072	1-124-667-11	ELECT 10MF	20% 50V
	C008	1-163-113-00 CERAMIC CHIP 68PF 5% 50V		C073	1-124-667-11	ELECT 10MF	20% 50V
	C009	1-136-191-11 FILM 0.22MF 10% 250V		C074	1-124-667-11	ELECT 10MF	20% 50V
	C010	1-162-117-00 CERAMIC 100PF 10% 500V					
	C012	1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V		C075	1-126-803-11	ELECT 47MF	20% 16V
	C013	1-124-634-11 ELECT 1MF 20% 250V		C076	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	C014	1-124-798-11 ELECT 1MF 20% 160V		C077	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
	C015	1-124-667-11 ELECT 10MF 20% 100V		C078	1-126-803-11	ELECT 47MF	20% 16V
	C016	1-136-189-00 FILM 0.1MF 10% 250V		C079	1-126-163-11	ELECT 4.7MF	20% 50V
	C017	1-126-803-11 ELECT 47MF 20% 16V					
	C018	1-126-387-11 ELECT 2.2MF 20% 50V		C080	1-126-320-11	ELECT 10MF	20% 16V
	C019	1-126-387-11 ELECT 2.2MF 20% 50V		C081	1-124-464-11	ELECT 0.22MF	20% 50V
	C020	1-126-387-11 ELECT 2.2MF 20% 50V		C082	1-124-464-11	ELECT 0.22MF	20% 50V
				C083	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
				C084	1-124-464-11	ELECT 0.22MF	20% 50V
				C085	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
				C086	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C087	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C090	1-164-162-11	CERAMIC CHIP 100PF	5% 100V
				C091	1-164-162-11	CERAMIC CHIP 100PF	5% 100V
				C092	1-164-162-11	CERAMIC CHIP 100PF	5% 100V
				C114	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C300	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C301	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C302	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C303	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C304	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C305	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C306	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C307	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C308	1-126-803-11	ELECT 47MF	20% 16V
				C309	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C310	1-163-235-11	CERAMIC CHIP 22PF	5% 50V

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une trame et une marque Δ
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specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C311	1-128-475-11	ELECT 10MF	20%	160V	FB702	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH
C315	1-124-667-11	ELECT 10MF	20%	100V	FB703	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH
C316	1-126-803-11	ELECT 47MF	20%	16V	FB704	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH
C318	1-126-803-11	ELECT 47MF	20%	16V	FB705	1-543-298-11	BEAD, FERRITE
C701	1-162-114-00	CERAMIC 0.0047MF		2KV			
C702	1-162-114-00	CERAMIC 0.0047MF		2KV			
C703	1-163-133-00	CERAMIC CHIP 470PF	5%	50V		<FILTER>	
C704	1-162-114-00	CERAMIC 0.0047MF		2KV			
C705	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	FL004	1-421-928-11	FILTER, NOISE
C706	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	FL005	1-421-928-11	FILTER, NOISE
C707	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	FL006	1-236-164-11	ENCAPSULATED COMPONENT
C708	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	FL007	1-424-464-11	FILTER, NOISE
C709	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	FL008	1-424-464-11	FILTER, NOISE
C710	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	FL012	1-424-464-11	FILTER, NOISE
C711	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	FL013	1-421-928-11	FILTER, NOISE
C712	1-162-114-00	CERAMIC 0.0047MF		2KV	FL014	1-421-928-11	FILTER, NOISE
C713	1-162-318-11	CERAMIC 0.001MF	10%	500V	FL015	1-424-464-11	FILTER, NOISE
C714	1-162-318-11	CERAMIC 0.001MF	10%	500V	FL016	1-424-464-11	FILTER, NOISE
		<CONNECTOR>			FL017	1-421-928-11	FILTER, NOISE
CN301	*1-564-518-11	PLUG, CONNECTOR 3P				<IC>	
CN302	*1-564-526-11	PLUG, CONNECTOR 11P			IC001	1-467-361-21	AMPLIFIER BLOCK, PRE (PRE-1)
CN303	*1-564-522-11	PLUG, CONNECTOR 7P			IC002	8-749-010-06	IC CR5527E
CN304	*1-564-521-11	PLUG, CONNECTOR 6P			IC003	8-752-057-43	IC CXA1616S
CN701	*1-564-518-11	PLUG, CONNECTOR 3P			IC004	8-759-143-11	IC UPC24M12HF
CN702	1-691-756-11	PIN, CONNECTOR (PC BOARD) 2P			IC005	8-759-708-05	IC NJM78L05A
		<DIODE>			IC006	8-759-012-70	IC MC7908CT
D002	8-719-901-83	DIODE 1SS83			IC007	8-759-242-74	IC TC7W04F
D003	8-719-901-83	DIODE 1SS83			IC008	8-759-060-00	IC BA10324AF
D004	8-719-901-83	DIODE 1SS83			IC009	8-759-032-01	IC MC74HC00AF
D005	8-719-800-76	DIODE 1SS226			IC010	8-759-168-72	IC TDA6101Q
D006	8-719-800-76	DIODE 1SS226			IC011	8-759-168-72	IC TDA6101Q
D007	8-719-901-83	DIODE 1SS83			IC012	8-759-168-72	IC TDA6101Q
D008	8-719-404-46	DIODE MA110			IC013	8-759-168-72	IC TDA6101Q
D009	8-719-404-46	DIODE MA110			IC701	8-759-996-43	IC RC4558PS
D022	8-719-901-83	DIODE 1SS83			IC702	8-759-242-74	IC TC7W04F
D023	8-719-901-83	DIODE 1SS83				<JACK>	
D024	8-719-901-83	DIODE 1SS83			JO01	*1-568-547-11	JACK, MINIATURE PIN
D027	8-719-901-83	DIODE 1SS83			JO21	*1-568-547-11	JACK, MINIATURE PIN
D042	8-719-901-83	DIODE 1SS83			JO41	*1-568-547-11	JACK, MINIATURE PIN
D043	8-719-901-83	DIODE 1SS83			J701 Δ	1-251-116-11	SOCKET, PICTURE TUBE
D044	8-719-901-83	DIODE 1SS83				<COIL>	
D047	8-719-901-83	DIODE 1SS83			L002	1-412-999-11	INDUCTOR CHIP 47N
D061	8-719-018-47	DIODE SC015-2			L003	1-410-686-11	INDUCTOR 1MMH
D062	8-719-901-83	DIODE 1SS83			L022	1-412-999-11	INDUCTOR CHIP 47N
D063	8-719-901-83	DIODE 1SS83			L042	1-412-999-11	INDUCTOR CHIP 47N
D701	8-719-404-46	DIODE MA110				<TRANSISTOR>	
D702	8-719-404-46	DIODE MA110			Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6
		<FERRITE BEAD>			Q011	8-729-216-22	TRANSISTOR 2SA1162-G
FB001	1-414-235-11	INDUCTOR, FERRITE BEAD			Q060	8-729-216-22	TRANSISTOR 2SA1162-G
FB002	1-414-235-11	INDUCTOR, FERRITE BEAD			Q063	8-729-901-00	TRANSISTOR DTC124EK
FB003	1-414-235-11	INDUCTOR, FERRITE BEAD			Q701	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)
FB004	1-414-235-11	INDUCTOR, FERRITE BEAD			Q702	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)
FB005	1-414-235-11	INDUCTOR, FERRITE BEAD				<RESISTOR>	
FB006	1-414-235-11	INDUCTOR, FERRITE BEAD			R001	1-216-631-11	METAL CHIP 150 0.50% 1/10W
FB007	1-414-235-11	INDUCTOR, FERRITE BEAD			R002	1-216-001-00	METAL GLAZE 10 5% 1/10W
FB008	1-414-235-11	INDUCTOR, FERRITE BEAD					
FB009	1-414-235-11	INDUCTOR, FERRITE BEAD					
FB701	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R003	1-216-631-11	METAL CHIP 150 0.50% 1/10W		R087	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R004	1-216-631-11	METAL CHIP 150 0.50% 1/10W		R091	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R005	1-216-631-11	METAL CHIP 150 0.50% 1/10W		R092	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R009	1-216-017-00	METAL GLAZE 47 5% 1/10W		R093	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R010	1-216-039-00	METAL GLAZE 390 5% 1/10W		R094	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R011	1-220-277-11	METAL GLAZE 2.2K 5% 1/4W		R095	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R012	1-216-105-00	METAL GLAZE 220K 5% 1/10W		R096	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R013	1-216-121-00	METAL GLAZE 1M 5% 1/10W		R097	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R015	1-247-734-11	CARBON 39 5% 1/2W		R098	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R016	1-216-025-00	METAL GLAZE 100 5% 1/10W		R099	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R017	1-216-037-00	METAL GLAZE 330 5% 1/10W		R300	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R020	1-216-033-00	METAL GLAZE 220 5% 1/10W		R301	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R021	1-216-631-11	METAL CHIP 150 0.50% 1/10W		R302	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R022	1-216-033-00	METAL GLAZE 220 5% 1/10W		R303	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R023	1-216-033-00	METAL GLAZE 220 5% 1/10W		R304	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R024	1-216-033-00	METAL GLAZE 220 5% 1/10W		R305	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R025	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R306	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R026	1-249-417-11	CARBON 1K 5% 1/4W F		R307	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
R029	1-216-017-00	METAL GLAZE 47 5% 1/10W		R308	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R030	1-216-039-00	METAL GLAZE 390 5% 1/10W		R309	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R031	1-220-277-11	METAL GLAZE 2.2K 5% 1/4W		R310	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R032	1-216-105-00	METAL GLAZE 220K 5% 1/10W		R311	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R033	1-216-121-00	METAL GLAZE 1M 5% 1/10W		R312	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R035	1-247-734-11	CARBON 39 5% 1/2W		R313	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R036	1-216-095-00	METAL GLAZE 82K 5% 1/10W		R314	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R037	1-216-095-00	METAL GLAZE 82K 5% 1/10W		R315	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R038	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R316	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R039	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		R317	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R040	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R318	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R041	1-216-631-11	METAL CHIP 150 0.50% 1/10W		R319	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R042	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W		R320	1-220-329-11	METAL GLAZE 56K 5% 1/2W	
R043	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W		R321	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R044	1-216-025-00	METAL GLAZE 100 5% 1/10W		R322	1-220-329-11	METAL GLAZE 56K 5% 1/2W	
R045	1-216-025-00	METAL GLAZE 100 5% 1/10W		R324	1-220-329-11	METAL GLAZE 56K 5% 1/2W	
R046	1-216-121-00	METAL GLAZE 1M 5% 1/10W		R325	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R049	1-216-017-00	METAL GLAZE 47 5% 1/10W		R326	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R050	1-216-039-00	METAL GLAZE 390 5% 1/10W		R327	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R051	1-220-277-11	METAL GLAZE 2.2K 5% 1/4W		R330	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R052	1-216-105-00	METAL GLAZE 220K 5% 1/10W		R331	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R053	1-216-121-00	METAL GLAZE 1M 5% 1/10W		R332	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R055	1-247-734-11	CARBON 39 5% 1/2W		R376	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R056	1-216-121-00	METAL GLAZE 1M 5% 1/10W		R377	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R057	1-216-025-00	METAL GLAZE 100 5% 1/10W		R378	1-216-665-11	METAL CHIP 3.9K 0.50% 1/10W	
R058	1-247-734-11	CARBON 39 5% 1/2W		R379	1-216-665-11	METAL CHIP 3.9K 0.50% 1/10W	
R063	1-216-033-00	METAL GLAZE 220 5% 1/10W		R380	1-216-665-11	METAL CHIP 3.9K 0.50% 1/10W	
R064	1-216-033-00	METAL GLAZE 220 5% 1/10W		R381	1-216-665-11	METAL CHIP 3.9K 0.50% 1/10W	
R065	1-216-033-00	METAL GLAZE 220 5% 1/10W		R382	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R066	1-216-033-00	METAL GLAZE 220 5% 1/10W		R701	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R067	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W		R702	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R068	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R703	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R069	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W		R704	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
R070	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R705	1-249-417-11	CARBON 1K 5% 1/4W F	
R072	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R706	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R075	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R727	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R076	1-216-093-00	METAL GLAZE 68K 5% 1/10W		R728	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R077	1-216-091-00	METAL GLAZE 56K 5% 1/10W		R730	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R078	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R731	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R079	1-216-113-00	METAL GLAZE 470K 5% 1/10W		R733	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R081	1-216-085-00	METAL GLAZE 33K 5% 1/10W		R734	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R082	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R735	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R083	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R736	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R084	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R737	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R085	1-216-091-00	METAL GLAZE 56K 5% 1/10W		R738 Δ	1-239-748-11	RESISTOR BLOCK (HIGH-VOLTAGE)	
R086	1-216-091-00	METAL GLAZE 56K 5% 1/10W					

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Les composants identifiés par une trame et une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce 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	REF.NO.	PART NO.	DESCRIPTION	REMARK
R739	△ 1-239-748-11	RESISTOR BLOCK (HIGH-VOLTAGE)		C605	△ 1-124-045-91	ELECT 4.7MF 20% 50V	
		<VARIABLE RESISTOR>		C606	△ 1-130-471-91	MYLAR 0.001MF 5% 50V	
RV701	1-223-410-11	RES, ADJ, METAL FILM 110M		C607	△ 1-137-194-81	FILM 0.47MF 5% 50V	
		<SPARK GAP>		C608	△ 1-123-605-85	ELECT 100MF 20% 100V	
SG701	1-519-422-11	GAP, SPARK		C609	△ 1-125-700-11	ELECT 220MF 20% 200V	
SG702	1-519-504-11	GAP, DISCHARGE		C610	△ 1-123-605-85	ELECT 100MF 20% 100V	
SG703	1-519-504-11	GAP, DISCHARGE		C611	△ 1-124-785-51	ELECT 3300MF 20% 25V	
SG704	1-519-504-11	GAP, DISCHARGE		C612	△ 1-124-785-51	ELECT 3300MF 20% 25V	
SG705	1-519-504-11	GAP, DISCHARGE		C614	△ 1-124-127-91	ELECT 100MF 20% 25V	
SG706	1-519-422-11	GAP, SPARK		C615	△ 1-124-127-91	ELECT 100MF 20% 25V	
SG707	1-519-504-11	GAP, DISCHARGE		C616	△ 1-123-973-91	ELECT 100MF 20% 16V	
*****				C616	△ 1-124-127-91	ELECT 100MF 20% 25V	
8-934-708-00		CONNECTOR PANEL ASSY (M BOARD)		C617	△ 1-124-803-85	ELECT 33MF 20% 160V	
		*****		C618	△ 1-123-605-85	ELECT 100MF 20% 100V	
		<CONNECTOR>		C619	△ 1-124-035-91	ELECT 47MF 20% 16V	
CN250	*1-564-520-11	PLUG, CONNECTOR 5P		C620	△ 1-130-473-91	MYLAR 0.0015MF 5% 50V	
CN251	1-691-803-11	SOCKET, DIN		C621	△ 1-162-134-51	CERAMIC 470PF 10% 2KV	
CN253	*1-564-518-11	PLUG, CONNECTOR 3P		C622	△ 1-104-537-91	FILM CHIP 680PF 5% 50V	
CN254	*1-564-518-11	PLUG, CONNECTOR 3P		C623	△ 1-161-953-71	CERAMIC 0.0047MF 20% 400V	
		<DIODE>		C624	△ 1-161-953-71	CERAMIC 0.0047MF 20% 400V	
D251	8-719-977-49	DIODE DTZ15B		C625	△ 1-123-973-91	ELECT 100MF 20% 16V	
D252	8-719-800-76	DIODE 1SS226		C626	△ 1-162-134-51	CERAMIC 470PF 10% 2KV	
D253	8-719-800-76	DIODE 1SS226		C628	△ 1-102-228-91	CERAMIC 470PF 10% 500V	
D254	8-719-800-76	DIODE 1SS226		C629	△ 1-102-228-91	CERAMIC 470PF 10% 500V	
D255	8-719-977-49	DIODE DTZ15B		C630	△ 1-102-228-91	CERAMIC 470PF 10% 500V	
		<RESISTOR>		C631	△ 1-102-228-91	CERAMIC 470PF 10% 500V	
R251	1-216-025-00	METAL GLAZE 100 5% 1/10W		C632	△ 1-102-228-91	CERAMIC 470PF 10% 500V	
R252	1-216-089-91	METAL GLAZE 47K 5% 1/10W		C633	△ 1-102-228-91	CERAMIC 470PF 10% 500V	
R254	1-216-025-00	METAL GLAZE 100 5% 1/10W		C634	△ 1-102-228-91	CERAMIC 470PF 10% 500V	
R255	1-216-617-11	METAL CHIP 39 0.50% 1/10W		C635	△ 1-161-953-71	CERAMIC 0.0047MF 20% 400V	
R256	1-216-617-11	METAL CHIP 39 0.50% 1/10W		C636	△ 1-161-953-71	CERAMIC 0.0047MF 20% 400V	
R257	1-216-617-11	METAL CHIP 39 0.50% 1/10W		C637	△ 1-161-953-71	CERAMIC 0.0047MF 20% 400V	
R258	1-216-617-11	METAL CHIP 39 0.50% 1/10W		C638	△ 1-161-953-71	CERAMIC 0.0047MF 20% 400V	
		<SWITCH>		<CONNECTOR>			
S250	1-572-482-11	SWITCH, KEY BOARD (1 KEY)		CN601	△ 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
S251	1-570-157-81	SWITCH, SLIDE		CN602	△ 1-564-511-51	PLUG, CONNECTOR 8P	
*****				CN603	△ 1-564-508-51	PLUG, CONNECTOR 5P	
△ 8-934-585-00		POWER BLOCK (G BOARD)		CN604	△ 1-564-506-51	PLUG, CONNECTOR 3P	
		*****		CN606	△ 1-695-915-21	TAB (CONTACT)	
		(INCLUDING F BOARD)		<DIODE>			
△ 4-374-846-01		COVER, CAPACITOR, CAP TYPE		D601	△ 8-719-510-53	DIODE D4SB60L	
△ 4-382-854-01		SCREW (M3X8), P, SW (+)		D602	△ 8-719-978-65	DIODE DTZ15B-TT11	
△ 4-382-854-11		SCREW (M3X10), P, SW (+)		D603	△ 8-719-302-05	DIODE EU2	
		<CAPACITOR>		D604	△ 8-719-302-05	DIODE EU2	
C601	△ 1-162-116-91	CERAMIC 680PF 10% 2KV		D605	△ 8-719-302-05	DIODE EU2	
C602	△ 1-107-576-11	ELECT 560MF 20% 400V		D606	△ 8-719-302-05	DIODE EU2	
C603	△ 1-124-794-91	ELECT 4.7MF 20% 100V		D607	△ 8-719-404-47	DIODE MA110-TX	
C604	△ 1-124-513-91	ELECT 47MF 20% 50V		D608	△ 8-719-045-47	DIODE FML-S16S	
				D609	△ 8-719-302-05	DIODE EU2	
				D610	△ 8-719-302-05	DIODE EU2	
				D611	△ 8-719-302-05	DIODE EU2	
				D612	△ 8-719-045-48	DIODE FML-G12S	
				D613	△ 8-719-045-48	DIODE FML-G12S	
				D614	△ 8-719-979-50	DIODE EGP30D	
				D615	△ 8-719-978-68	DIODE DTZ16A-TT11	
				D616	△ 8-719-404-47	DIODE MA110-TX	
				D617	△ 8-719-977-89	DIODE DTZ2.0B-TT11	
				D620	△ 8-719-978-84	DIODE DTZ24A-TT11	
				D621	△ 8-719-404-47	DIODE MA110-TX	
				D622	△ 8-719-302-05	DIODE EU2	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
CN1603	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P		D819	8-719-911-19	DIODE 1SS119	
CN1604*	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P		D820	8-719-911-19	DIODE 1SS119	
<DIODE>				D821	8-719-911-19	DIODE 1SS119	
D404	8-719-911-19	DIODE 1SS119		D823	8-719-109-89	DIODE RD5.6ESB2	
D405	8-719-911-19	DIODE 1SS119		D824	8-719-911-19	DIODE 1SS119	
D406	8-719-911-19	DIODE 1SS119		D825	8-719-200-02	DIODE 10E-2	
D407	8-719-028-72	DIODE RGP02-17EL-6433		D826	8-719-109-51	DIODE RD2.0ESB2	
D408	8-719-979-85	DIODE EGP20G		D827	8-719-109-89	DIODE RD5.6ESB2	
D409	8-719-110-36	DIODE RD13ESB2		D828	8-719-911-19	DIODE 1SS119	
D410	8-719-908-03	DIODE GP08D		D829	8-719-911-19	DIODE 1SS119	
D411	8-719-028-72	DIODE RGP02-17EL-6433		D1501	8-719-109-81	DIODE RD4.7ESB2	
D412	8-719-908-03	DIODE GP08D		D1502	8-719-109-81	DIODE RD4.7ESB2	
D413	8-719-911-19	DIODE 1SS119		D1503	8-719-109-81	DIODE RD4.7ESB2	
D414	8-719-908-03	DIODE GP08D		D1504	8-719-109-81	DIODE RD4.7ESB2	
D415	8-719-911-19	DIODE 1SS119		D1505	8-719-109-81	DIODE RD4.7ESB2	
D416	8-719-110-49	DIODE RD18ESB2		D1624	8-719-911-19	DIODE 1SS119	
D417	8-719-911-19	DIODE 1SS119		D1629	8-719-911-19	DIODE 1SS119	
D418	8-719-911-19	DIODE 1SS119		<FERRITE BEAD>			
D419	8-719-110-46	DIODE RD16ESB3		FB401	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
D420	8-719-911-19	DIODE 1SS119		FB501	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D421	8-719-911-19	DIODE 1SS119		FB502	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D422	8-719-109-81	DIODE RD4.7ESB2		FB503	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
D425	8-719-920-34	DIODE ERA15-01TP1		<IC>			
D501	8-719-109-89	DIODE RD5.6ESB2		IC401	8-759-822-38	IC LA6510	
D502	8-719-951-30	DIODE ERA91-02		IC404	8-759-503-91	IC TL082ACP	
D503	8-719-920-67	DIODE ERC91-02		IC406	8-759-908-15	IC TL431CLP	
D504	8-719-110-36	DIODE RD13ESB2		IC407	8-759-980-58	IC TDA8172	
D505	8-719-979-57	DIODE EGP30G		IC408	8-759-013-06	IC MC7805CT	
D506	8-719-920-67	DIODE ERC91-02		IC409	8-759-143-11	IC UPC24M12HF	
D507	8-719-979-85	DIODE EGP20G		IC410	8-759-012-71	IC MC7912CT	
D508	8-719-979-85	DIODE EGP20G		IC500	8-759-143-11	IC UPC24M12HF	
D509	8-719-109-69	DIODE RD3.6ESB2		IC501	8-759-012-71	IC MC7912CT	
D510	8-719-984-73	DIODE SB560		IC502	8-759-503-91	IC TL082ACP	
D511	8-719-045-42	DIODE DD52RC		IC503	8-759-177-43	IC CXA1544P	
D512	8-719-911-19	DIODE 1SS119		IC505	8-759-803-42	IC LA6500-FA	
D513	8-719-911-19	DIODE 1SS119		IC506	8-729-021-70	TRANSISTOR IRHT5305	
D514	8-719-018-82	DIODE RGP02-20EL-6394		IC801	8-759-240-49	IC TC4049BP	
D515	8-719-911-19	DIODE 1SS119		IC802	8-759-182-61	IC DLAB43A	
D516	8-719-979-57	DIODE EGP30G		IC803	8-759-135-80	IC UPC358C	
D517	8-719-911-19	DIODE 1SS119		IC804	1-810-321-12	PROTECTOR MODULE, HV	
D518	8-719-911-19	DIODE 1SS119		IC806	8-759-981-64	IC LM2903DQ	
D519	8-719-911-19	DIODE 1SS119		<JUMPER>			
D520	8-719-911-19	DIODE 1SS119		JW129	1-412-537-31	INDUCTOR 100UH	
D521	8-719-911-19	DIODE 1SS119		<COIL>			
D522	8-719-911-19	DIODE 1SS119		L451	1-408-406-00	INDUCTOR 5.6UH	
D523	8-719-911-19	DIODE 1SS119		L501	1-409-597-11	COIL, HORIZONTAL LINEARITY	
D524	8-719-908-03	DIODE GP08D		L502	1-424-321-11	COIL, CHOKE 1000UH	
D525	8-719-920-67	DIODE ERC91-02		L503	1-406-892-11	COIL, CHOKE 4MMH	
D801	8-719-110-46	DIODE RD16ESB3		L504	1-412-537-31	INDUCTOR 100UH	
D802	8-719-911-19	DIODE 1SS119		L505	1-412-537-31	INDUCTOR 100UH	
D803	8-719-911-19	DIODE 1SS119		L506	1-412-537-31	INDUCTOR 100UH	
D805	8-719-911-19	DIODE 1SS119		L507	1-409-598-11	COIL, HORIZONTAL LINEARITY	
D806	8-719-110-46	DIODE RD16ESB3		L508	1-406-675-11	COIL, CHOKE 4.7MMH	
D807	8-719-941-74	DIODE ERB91-02		L509	1-412-537-31	INDUCTOR 100UH	
D808	8-719-920-67	DIODE ERC91-02		L801	1-412-537-31	INDUCTOR 100UH	
D809	8-719-911-19	DIODE 1SS119					
D810	8-719-911-19	DIODE 1SS119					
D811	8-719-110-46	DIODE RD16ESB3					
D814	8-719-911-19	DIODE 1SS119					
D815	8-719-109-89	DIODE RD5.6ESB2					
D816	8-719-911-19	DIODE 1SS119					
D817	8-719-109-85	DIODE RD5.1ESB2					

D

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une trame et une marque Δ
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The components identified by
shading and mark Δ are critical
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Replace only with part number
specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L803	1-412-527-11	INDUCTOR 15UH		R422	1-249-435-11	CARBON 33K 5% 1/4W	
<IC LINK>				R424	1-259-880-11	CARBON 2.2M 5% 1/4W	
PS500 Δ	1-532-841-21	LINK, IC 1.6A		R425	1-259-880-11	CARBON 2.2M 5% 1/4W	
PS501 Δ	1-532-984-91	LINK, IC 2.0A		R426	1-259-880-11	CARBON 2.2M 5% 1/4W	
PS502 Δ	1-532-984-91	LINK, IC 2.0A		R427	1-249-437-11	CARBON 47K 5% 1/4W	
PS503 Δ	1-532-637-91	LINK, IC 1.0A		R430	1-249-385-11	CARBON 2.2 5% 1/4W	
PS504 Δ	1-532-637-91	LINK, IC 1.0A		R431	1-249-385-11	CARBON 2.2 5% 1/4W	
PS800 Δ	1-532-839-21	LINK, IC 1.0A		R433	1-215-909-11	METAL OXIDE 47 5% 3W	F
<TRANSISTOR>				R434	1-249-425-11	CARBON 4.7K 5% 1/4W	F
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE		R436	1-249-383-11	CARBON 1.5 5% 1/4W	F
Q403	8-729-119-78	TRANSISTOR 2SC2785-HFE		R438	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q404	8-729-119-76	TRANSISTOR 2SA1175-HFE		R439	1-249-417-11	CARBON 1K 5% 1/4W	
Q406	8-729-140-96	TRANSISTOR 2SD774-34		R440	1-215-465-00	METAL 68K 1% 1/4W	
Q408	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)		R442	1-215-445-00	METAL 10K 1% 1/4W	
Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE		R443	1-247-887-00	CARBON 220K 5% 1/4W	
Q410	8-729-017-69	TRANSISTOR IRF19620		R444	1-216-452-11	METAL OXIDE 180 5% 2W	F
Q411	8-729-022-28	TRANSISTOR IRF1620		R445	1-249-431-11	CARBON 15K 5% 1/4W	
Q412	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)		R446	1-215-445-00	METAL 10K 1% 1/4W	
Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE		R447	1-249-417-11	CARBON 1K 5% 1/4W	
Q511	8-729-023-09	TRANSISTOR IRF19630S-LF		R449	1-215-461-00	METAL 47K 1% 1/4W	
Q512	8-729-023-08	TRANSISTOR 2SC3997-CC		R450	1-215-445-00	METAL 10K 1% 1/4W	
Q513	8-729-119-78	TRANSISTOR 2SC2785-HFE		R451	1-249-383-11	CARBON 1.5 5% 1/4W	F
Q514	8-729-119-76	TRANSISTOR 2SA1175-HFE		R452	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q515	8-729-820-73	TRANSISTOR 2SC3746		R453	1-215-910-00	METAL OXIDE 68 5% 3W	F
Q517	8-729-140-96	TRANSISTOR 2SD774-34		R454	1-215-461-00	METAL 47K 1% 1/4W	
Q518	8-729-119-78	TRANSISTOR 2SC2785-HFE		R455	1-215-415-00	METAL 560 1% 1/4W	
Q519	8-729-119-78	TRANSISTOR 2SC2785-HFE		R458	1-215-467-00	METAL 82K 1% 1/4W	
Q522	8-729-119-76	TRANSISTOR 2SA1175-HFE		R459	1-215-439-00	METAL 5.6K 1% 1/4W	
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE		R460	1-215-422-00	METAL 1.1K 1% 1/4W	
Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE		R461	1-215-869-11	METAL OXIDE 1K 5% 1W	F
Q803	8-729-022-47	TRANSISTOR 2SK2077(LBSONY)		R462	1-214-798-21	METAL 1.8 1% 1/2W	
Q804	8-729-023-09	TRANSISTOR IRF19630S-LF		R463	1-249-383-11	CARBON 1.5 5% 1/4W	F
Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE		R464	1-216-393-00	METAL OXIDE 2.2 5% 3W	F
Q806	8-729-119-78	TRANSISTOR 2SC2785-HFE		R465	1-216-393-00	METAL OXIDE 2.2 5% 3W	F
Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE		R466	1-249-429-11	CARBON 10K 5% 1/4W	
Q809	8-729-119-76	TRANSISTOR 2SA1175-HFE		R467	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q810	8-729-119-76	TRANSISTOR 2SA1175-HFE		R468	1-249-429-11	CARBON 10K 5% 1/4W	
Q811	8-729-119-78	TRANSISTOR 2SC2785-HFE		R469	1-249-441-11	CARBON 100K 5% 1/4W	
Q812	8-729-022-18	TRANSISTOR IRL1520		R470	1-249-417-11	CARBON 1K 5% 1/4W	F
Q1501	8-729-022-18	TRANSISTOR IRL1520		R471	1-249-409-11	CARBON 220 5% 1/4W	
Q1603	8-729-119-78	TRANSISTOR 2SC2785-HFE		R472	1-249-409-11	CARBON 220 5% 1/4W	
Q1606	8-729-119-78	TRANSISTOR 2SC2785-HFE		R479	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q1607	8-729-119-78	TRANSISTOR 2SC2785-HFE		R481	1-249-413-11	CARBON 470 5% 1/4W	F
<RESISTOR>				R482	1-249-423-11	CARBON 3.3K 5% 1/4W	
R404	1-249-393-11	CARBON 10 5% 1/4W	F	R483	1-249-421-11	CARBON 2.2K 5% 1/4W	
R405	1-249-429-11	CARBON 10K 5% 1/4W		R484	1-214-798-21	METAL 1.8 1% 1/2W	
R407	1-249-425-11	CARBON 4.7K 5% 1/4W		R502	1-249-417-11	CARBON 1K 5% 1/4W	
R410	1-249-429-11	CARBON 10K 5% 1/4W		R503	1-249-429-11	CARBON 10K 5% 1/4W	
R411	1-249-431-11	CARBON 15K 5% 1/4W		R504	1-249-429-11	CARBON 10K 5% 1/4W	
R412	1-249-438-11	CARBON 56K 5% 1/4W		R505	1-249-405-11	CARBON 100 5% 1/4W	F
R413	1-247-903-00	CARBON 1M 5% 1/4W		R506	1-215-455-00	METAL 27K 1% 1/4W	
R414	1-249-437-11	CARBON 47K 5% 1/4W		R507	1-260-288-11	CARBON 0.47 5% 1/2W	
R416	1-202-844-00	SOLID 330K 20% 1/2W		R508	1-260-288-11	CARBON 0.47 5% 1/2W	
R417	1-202-844-00	SOLID 330K 20% 1/2W		R509	1-216-393-00	METAL OXIDE 2.2 5% 3W	F
R418	1-202-844-00	SOLID 330K 20% 1/2W		R510	1-215-445-00	METAL 10K 1% 1/4W	
R419	1-247-807-31	CARBON 100 5% 1/4W		R511	1-215-883-11	METAL OXIDE 33 5% 2W	F
R420	1-249-417-11	CARBON 1K 5% 1/4W		R512	1-215-861-00	METAL OXIDE 47 5% 1W	F
R421	1-249-429-11	CARBON 10K 5% 1/4W		R513	1-216-393-00	METAL OXIDE 2.2 5% 3W	F
				R514	1-216-447-00	METAL OXIDE 27 5% 2W	F
				R515	1-208-964-11	METAL OXIDE 4.7 10% 5W	F
				R516	1-208-964-11	METAL OXIDE 4.7 10% 5W	F
				R517	1-249-429-11	CARBON 10K 5% 1/4W	
				R518	1-215-860-11	METAL OXIDE 33 5% 1W	F

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

Les composants identifiés par une trame et une marque **△** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R519	1-249-434-11	CARBON	27K 5% 1/4W	R830	1-249-433-11	CARBON	22K 5% 1/4W
R520	1-260-296-11	CARBON	2.2 5% 1/2W	R831	1-249-426-11	CARBON	5.6K 5% 1/4W
R521	1-249-437-11	CARBON	47K 5% 1/4W	R832 △	1-215-455-91	METAL	27K 1% 1/4W
R522	1-249-429-11	CARBON	10K 5% 1/4W	R833	1-249-417-11	CARBON	1K 5% 1/4W
R523	1-249-425-11	CARBON	4.7K 5% 1/4W	R834	1-249-426-11	CARBON	5.6K 5% 1/4W
R524	1-249-433-11	CARBON	22K 5% 1/4W	R835	1-249-421-11	CARBON	2.2K 5% 1/4W
R525	1-249-426-11	CARBON	5.6K 5% 1/4W	R836	1-249-429-11	CARBON	10K 5% 1/4W
R526	1-215-859-00	METAL OXIDE	22 5% 1W	R837	1-249-433-11	CARBON	22K 5% 1/4W
R527	1-249-397-11	CARBON	22 5% 1/4W	R839	1-249-441-11	CARBON	100K 5% 1/4W
R529	1-215-455-00	METAL	27K 1% 1/4W	R840	1-249-417-11	CARBON	1K 5% 1/4W
R530	1-215-453-00	METAL	22K 1% 1/4W	R841	1-249-417-11	CARBON	1K 5% 1/4W
R531	1-249-423-11	CARBON	3.3K 5% 1/4W	R842 △	1-215-453-91	METAL	22K 1% 1/4W
R532	1-215-445-00	METAL	10K 1% 1/4W	R843 △	1-215-448-91	METAL	13K 1% 1/4W
R533	1-215-445-00	METAL	10K 1% 1/4W	R844	1-249-429-11	CARBON	10K 5% 1/4W
R534	1-215-452-00	METAL	20K 1% 1/4W	R845	1-216-341-11	METAL OXIDE	0.22 5% 1W
R535	1-215-452-00	METAL	20K 1% 1/4W	R846	1-216-344-00	METAL OXIDE	0.39 5% 1W
R536	1-249-417-11	CARBON	1K 5% 1/4W	R847	1-249-429-11	CARBON	10K 5% 1/4W
R539	1-249-417-11	CARBON	1K 5% 1/4W	R848	1-249-441-11	CARBON	100K 5% 1/4W
R540	1-247-895-00	CARBON	470K 5% 1/4W	R849	1-247-887-00	CARBON	220K 5% 1/4W
R541	1-249-429-11	CARBON	10K 5% 1/4W	R850	1-202-826-00	SOLID	4.7K 20% 1/2W
R575	1-215-453-00	METAL	22K 1% 1/4W	R851	1-202-826-00	SOLID	4.7K 20% 1/2W
R576	1-215-439-00	METAL	5.6K 1% 1/4W	R852	1-215-889-00	METAL OXIDE	330 5% 2W
R578	1-215-891-11	METAL OXIDE	680 5% 2W	R853	1-249-441-11	CARBON	100K 5% 1/4W
R581	1-249-414-11	CARBON	560 5% 1/4W	R854	1-249-417-11	CARBON	1K 5% 1/4W
R582	1-249-429-11	CARBON	10K 5% 1/4W	R855	1-249-433-11	CARBON	22K 5% 1/4W
R583	1-249-414-11	CARBON	560 5% 1/4W	R857	1-215-913-11	METAL OXIDE	220 5% 3W
R584	1-249-415-11	CARBON	680 5% 1/4W	R1500	1-249-425-11	CARBON	4.7K 5% 1/4W
R585	1-249-421-11	CARBON	2.2K 5% 1/4W	R1501	1-249-429-11	CARBON	10K 5% 1/4W
R586	1-247-807-31	CARBON	100 5% 1/4W	R1502	1-215-445-00	METAL	10K 1% 1/4W
R587	1-249-421-11	CARBON	2.2K 5% 1/4W	R1503	1-249-417-11	CARBON	1K 5% 1/4W
R588	1-249-393-11	CARBON	10 5% 1/4W	R1504	1-249-417-11	CARBON	1K 5% 1/4W
R591	1-215-424-00	METAL	1.3K 1% 1/4W	R1505	1-249-417-11	CARBON	1K 5% 1/4W
R592	1-215-428-00	METAL	2K 1% 1/4W	R1506	1-249-417-11	CARBON	1K 5% 1/4W
R593	1-249-426-11	CARBON	5.6K 5% 1/4W	R1507	1-249-437-11	CARBON	47K 5% 1/4W
R595	1-215-451-00	METAL	18K 1% 1/4W	R1508	1-249-437-11	CARBON	47K 5% 1/4W
R596	1-215-459-00	METAL	39K 1% 1/4W	R1509	1-249-437-11	CARBON	47K 5% 1/4W
R597	1-215-445-00	METAL	10K 1% 1/4W	R1510	1-249-437-11	CARBON	47K 5% 1/4W
R598	1-215-459-00	METAL	39K 1% 1/4W	R1511	1-215-449-00	METAL	15K 1% 1/4W
R599	1-249-437-11	CARBON	47K 5% 1/4W	R1512	1-247-807-31	CARBON	100 5% 1/4W
R801	1-249-417-11	CARBON	1K 5% 1/4W	R1518	1-214-847-00	METAL	200 1% 1/2W
R802	1-249-393-11	CARBON	10 5% 1/4W	R1519	1-214-847-00	METAL	200 1% 1/2W
R803	1-249-402-11	CARBON	56 5% 1/4W	R1520	1-249-417-11	CARBON	1K 5% 1/4W
R804	1-249-433-11	CARBON	22K 5% 1/4W	R1521	1-249-437-11	CARBON	47K 5% 1/4W
R805	1-249-417-11	CARBON	1K 5% 1/4W	R1522	1-214-847-00	METAL	200 1% 1/2W
R806	1-249-426-11	CARBON	5.6K 5% 1/4W	R1600	1-249-429-11	CARBON	10K 5% 1/4W
R807	1-249-417-11	CARBON	1K 5% 1/4W	R1603	1-249-429-11	CARBON	10K 5% 1/4W
R808	1-247-807-31	CARBON	100 5% 1/4W	R1604	1-249-429-11	CARBON	10K 5% 1/4W
R809	1-249-429-11	CARBON	10K 5% 1/4W	R1605	1-249-417-11	CARBON	1K 5% 1/4W
R810	1-249-429-11	CARBON	10K 5% 1/4W	R1639	1-249-429-11	CARBON	10K 5% 1/4W
R811	1-249-393-11	CARBON	10 5% 1/4W	R1646	1-249-435-11	CARBON	33K 5% 1/4W
R812	1-249-428-11	CARBON	8.2K 5% 1/4W	R1647	1-249-429-11	CARBON	10K 5% 1/4W
R813	1-249-397-11	CARBON	22 5% 1/4W	<RELAY>			
R814	1-249-427-11	CARBON	6.8K 5% 1/4W	ARY501	1-515-805-11	RELAY, POWER	
R815	1-215-889-00	METAL OXIDE	330 5% 2W	ARY1601	1-515-849-11	RELAY	
R816	1-216-432-00	METAL OXIDE	820 5% 1W	ARY1602	1-515-669-21	RELAY	
R817	1-216-432-00	METAL OXIDE	820 5% 1W	<SPARK GAP>			
R821	1-215-889-00	METAL OXIDE	330 5% 2W	SG400	1-519-422-11	GAP, SPARK	
R822	1-249-423-11	CARBON	3.3K 5% 1/4W	SG800	1-519-422-11	GAP, SPARK	
R823	1-249-425-11	CARBON	4.7K 5% 1/4W				
R824	1-249-441-11	CARBON	100K 5% 1/4W				
R826 △	1-215-431-91	METAL	2.7K 1% 1/4W				
R827	1-249-441-11	CARBON	100K 5% 1/4W				
R828	1-247-887-00	CARBON	220K 5% 1/4W				
R829	1-249-441-11	CARBON	100K 5% 1/4W				

D

H

N

Les composants identifiés par
une trame et une marque Δ
sont critiques pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifique.

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

REF.NO. PART NO. DESCRIPTION

REMARK

<TRANSFORMER>

T400 1-423-854-11 TRANSFORMER, FERRITE (DFT)
T401 1-423-405-11 TRANSFORMER, FERRITE (FRT)
T500 1-423-853-11 TRANSFORMER, FERRITE (HDT)
T501 1-423-888-11 TRANSFORMER, FERRITE (HOT)
T502 1-423-856-11 TRANSFORMER, FERRITE (HST)

T800 Δ 1-453-162-11 TRANSFORMER ASSY. FLYBACK (NX-2780A1)
T801 1-423-855-11 TRANSFORMER, FERRITE (HRT)
T1601 Δ 1-426-643-11 TRANSFORMER, LINE FILTER (LFT)

<THERMISTOR>

Δ THP601.1-809-260-11 THERMISTOR, POWER
 Δ THP602.1-809-827-11 THERMISTOR, POSITIVE

<VARISTOR>

Δ AVDR601.1-809-201-21 VARISTOR

8-934-705-00 CONTROL PANEL ASSY (H BOARD)

4-041-624-01 HOLDER (H1), LED
4-041-657-01 HOLDER (H2), LED

<CAPACITOR>

C201 1-163-038-00 CERAMIC CHIP 0.1MF 25V
C202 1-163-038-00 CERAMIC CHIP 0.1MF 25V
C203 1-124-584-00 ELECT 100MF 20% 10V
C204 1-124-584-00 ELECT 100MF 20% 10V
C205 1-163-125-00 CERAMIC CHIP 220PF 5% 50V

C206 1-163-125-00 CERAMIC CHIP 220PF 5% 50V
C207 1-163-125-00 CERAMIC CHIP 220PF 5% 50V
C208 1-163-125-00 CERAMIC CHIP 220PF 5% 50V
C209 1-163-125-00 CERAMIC CHIP 220PF 5% 50V
C210 1-163-125-00 CERAMIC CHIP 220PF 5% 50V

C211 1-163-125-00 CERAMIC CHIP 220PF 5% 50V
C212 1-163-125-00 CERAMIC CHIP 220PF 5% 50V
C213 1-163-125-00 CERAMIC CHIP 220PF 5% 50V
C214 1-163-125-00 CERAMIC CHIP 220PF 5% 50V
C215 1-163-125-00 CERAMIC CHIP 220PF 5% 50V

C216 1-163-125-00 CERAMIC CHIP 220PF 5% 50V

<CONNECTOR>

CN201 *1-564-521-11 PLUG, CONNECTOR 6P

<DIODE>

D201 8-719-311-15 DIODE SEL1422G-C,D
D202 8-719-311-90 DIODE SEL1922D-C
D203 8-719-311-90 DIODE SEL1922D-C
D204 8-719-311-90 DIODE SEL1922D-C
D205 8-719-311-90 DIODE SEL1922D-C

D206 8-719-311-90 DIODE SEL1922D-C
D207 8-719-045-19 DIODE SPB-26MVWF
D209 8-719-977-03 DIODE DTZ5.6B

<IC>

IC201 8-759-032-59 IC MC74HC595AF

REF.NO. PART NO.

DESCRIPTION

REMARK

IC202 8-759-173-48 IC MC74HC597F-T2

<TRANSISTOR>

Q201 8-729-901-00 TRANSISTOR DTC124EK
Q202 8-729-901-00 TRANSISTOR DTC124EK

<RESISTOR>

R201 1-216-041-00 METAL GLAZE 470 5% 1/10W
R202 1-216-041-00 METAL GLAZE 470 5% 1/10W
R203 1-216-041-00 METAL GLAZE 470 5% 1/10W
R204 1-216-041-00 METAL GLAZE 470 5% 1/10W
R205 1-216-041-00 METAL GLAZE 470 5% 1/10W

R206 1-216-041-00 METAL GLAZE 470 5% 1/10W
R207 1-216-037-00 METAL GLAZE 330 5% 1/10W
R208 1-216-041-00 METAL GLAZE 470 5% 1/10W
R210 1-216-041-00 METAL GLAZE 470 5% 1/10W
R226 1-216-073-00 METAL GLAZE 10K 5% 1/10W

R227 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R228 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R229 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R230 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R231 1-216-073-00 METAL GLAZE 10K 5% 1/10W

R232 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R233 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R234 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R235 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R236 1-216-073-00 METAL GLAZE 10K 5% 1/10W

R237 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R238 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R239 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R240 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R241 1-216-073-00 METAL GLAZE 10K 5% 1/10W

R242 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R243 1-216-073-00 METAL GLAZE 10K 5% 1/10W

<SWITCH>

S201 1-571-532-21 SWITCH, TACTIL
S202 1-571-532-21 SWITCH, TACTIL
S203 1-571-532-21 SWITCH, TACTIL
S204 1-571-532-21 SWITCH, TACTIL
S205 1-571-532-21 SWITCH, TACTIL

S206 1-571-532-21 SWITCH, TACTIL
S207 1-571-532-21 SWITCH, TACTIL
S208 1-571-532-21 SWITCH, TACTIL

8-934-707-00 MICON MCB (N BOARD)

<CAPACITOR>

C901 1-163-038-00 CERAMIC CHIP 0.1MF 25V
C903 1-163-038-00 CERAMIC CHIP 0.1MF 25V
C904 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V
C905 1-163-038-00 CERAMIC CHIP 0.1MF 25V
C906 1-164-004-11 CERAMIC CHIP 0.1MF 10% 25V

C907 1-124-903-11 ELECT 1MF 20% 50V
C908 1-163-235-11 CERAMIC CHIP 22PF 5% 50V
C909 1-130-479-00 MYLAR 0.0047MF 5% 50V
C910 1-163-235-11 CERAMIC CHIP 22PF 5% 50V
C911 1-163-235-11 CERAMIC CHIP 22PF 5% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C912	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D901	8-719-404-46	DIODE MA110	
C913	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D902	8-719-404-46	DIODE MA110	
C914	1-164-004-11	CERAMIC CHIP 0.1MF	10%	D903	8-719-800-76	DIODE 1SS226	
C915	1-163-101-00	CERAMIC CHIP 22PF	5%	D904	8-719-800-76	DIODE 1SS226	
C916	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D905	8-719-404-46	DIODE MA110	
C917	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D906	8-719-404-46	DIODE MA110	
C918	1-104-664-11	ELECT 47MF	20%	D907	8-719-404-46	DIODE MA110	
C919	1-104-664-11	ELECT 47MF	20%	D908	8-719-404-46	DIODE MA110	
C920	1-164-004-11	CERAMIC CHIP 0.1MF	10%	D909	8-719-404-46	DIODE MA110	
C921	1-164-004-11	CERAMIC CHIP 0.1MF	10%	D910	8-719-404-46	DIODE MA110	
C922	1-163-019-00	CERAMIC CHIP 0.0068MF	10%	D911	8-719-800-76	DIODE 1SS226	
C930	1-163-038-00	CERAMIC CHIP 0.1MF	25V	D912	8-719-800-76	DIODE 1SS226	
C932	1-104-555-11	FILM CHIP 0.022MF	5%	D913	8-719-800-76	DIODE 1SS226	
C933	1-163-117-00	CERAMIC CHIP 100PF	5%	D914	8-719-800-76	DIODE 1SS226	
C934	1-104-561-11	FILM CHIP 0.068MF	5%	D915	8-719-800-76	DIODE 1SS226	
C935	1-124-126-00	ELECT 47MF	20%	D917	8-719-404-46	DIODE MA110	
C936	1-124-126-00	ELECT 47MF	20%	D920	8-719-404-46	DIODE MA110	
C953	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C954	1-164-004-11	CERAMIC CHIP 0.1MF	10%				
C958	1-104-664-11	ELECT 47MF	20%				
C959	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C960	1-164-005-11	CERAMIC CHIP 0.47MF	25V				
C963	1-164-004-11	CERAMIC CHIP 0.1MF	10%				
C964	1-164-004-11	CERAMIC CHIP 0.1MF	10%				
C965	1-164-004-11	CERAMIC CHIP 0.1MF	10%				
C966	1-164-004-11	CERAMIC CHIP 0.1MF	10%				
C967	1-164-004-11	CERAMIC CHIP 0.1MF	10%				
C968	1-164-004-11	CERAMIC CHIP 0.1MF	10%				
C969	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C970	1-164-182-11	CERAMIC CHIP 0.0033MF	10%				
C971	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C972	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C973	1-126-966-11	ELECT 33MF	20%				
C974	1-164-004-11	CERAMIC CHIP 0.1MF	10%				
C976	1-163-117-00	CERAMIC CHIP 100PF	5%				
C977	1-104-539-11	FILM CHIP 0.001MF	5%				
C978	1-124-925-11	ELECT 2.2MF	20%				
C979	1-104-547-11	FILM CHIP 0.0047MF	5%				
C980	1-163-113-00	CERAMIC CHIP 68PF	5%				
C981	1-163-001-11	CERAMIC CHIP 220PF	10%				
C982	1-107-561-11	FILM CHIP 0.01MF	5%				
C983	1-124-126-00	ELECT 47MF	20%				
C984	1-104-664-11	ELECT 47MF	20%				
C985	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C986	1-104-563-11	FILM CHIP 0.1MF	5%				
C987	1-164-232-11	CERAMIC CHIP 0.01MF	10%				
C988	1-124-126-00	ELECT 47MF	20%				
C989	1-104-563-11	FILM CHIP 0.1MF	5%				
C990	1-163-037-11	CERAMIC CHIP 0.022MF	10%				
C991	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C992	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
<CONNECTOR>							
CN901	*1-564-514-11	PLUG, CONNECTOR 11P					
CN902	*1-564-510-11	PLUG, CONNECTOR 7P					
CN907	*1-564-509-11	PLUG, CONNECTOR 6P					
CN908	*1-564-508-11	PLUG, CONNECTOR 5P					
CN909	*1-564-507-11	PLUG, CONNECTOR 4P					
CN910	1-764-027-11	SOCKET, CONNECTOR 20P					
CN911	1-764-027-11	SOCKET, CONNECTOR 20P					
<DIODE>							
D901	8-719-404-46	DIODE MA110					
D902	8-719-404-46	DIODE MA110					
D903	8-719-800-76	DIODE 1SS226					
D904	8-719-800-76	DIODE 1SS226					
D905	8-719-404-46	DIODE MA110					
D906	8-719-404-46	DIODE MA110					
D907	8-719-404-46	DIODE MA110					
D908	8-719-404-46	DIODE MA110					
D909	8-719-404-46	DIODE MA110					
D910	8-719-404-46	DIODE MA110					
D911	8-719-800-76	DIODE 1SS226					
D912	8-719-800-76	DIODE 1SS226					
D913	8-719-800-76	DIODE 1SS226					
D914	8-719-800-76	DIODE 1SS226					
D915	8-719-800-76	DIODE 1SS226					
D917	8-719-404-46	DIODE MA110					
D920	8-719-404-46	DIODE MA110					
<FILTER>							
FL951	1-236-071-11	ENCAPSULATED COMPONENT					
FL956	1-236-071-11	ENCAPSULATED COMPONENT					
FL957	1-236-071-11	ENCAPSULATED COMPONENT					
<IC>							
IC901	8-759-182-62	IC CXD8478Q					
IC902	8-759-156-55	IC CD74HC4046AM					
IC903	8-759-074-40	IC PST572DMT-T1					
IC904	8-759-261-57	IC SC400646FU					
IC905	8-759-189-89	IC SN751701PS-ELL2000					
IC908	8-759-008-67	IC MC14066BF					
IC909	8-759-981-48	IC TL082M					
IC911	8-759-925-90	IC SN74HC74ANS					
IC912	8-759-925-72	IC SN74HC02ANS					
IC913	8-759-191-50	IC TDA9102C					
IC914	8-759-981-48	IC TL082M					
<COIL>							
L905	1-412-537-31	INDUCTOR 100UH					
L906	1-408-421-00	INDUCTOR 100UH					
L907	1-408-421-00	INDUCTOR 100UH					
<TRANSISTOR>							
Q903	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q905	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q906	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q907	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
Q909	8-729-901-00	TRANSISTOR DTC124EK					
Q910	8-729-232-13	TRANSISTOR 2SK1078					
Q912	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
<RESISTOR>							
R260	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R261	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R262	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R265	1-216-669-11	METAL CHIP 5.6K 0.50%	1/10W				
R266	1-216-659-11	METAL CHIP 2.2K 0.50%	1/10W				
R269	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R270	1-216-049-00	METAL GLAZE 1K 5%	1/10W				

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REF. NO.	PART NO.	DESCRIPTION				
R272	1-216-295-00	METAL	GLAZE	0	5%	1/10W
R280	1-216-041-00	METAL	GLAZE	470	5%	1/10W
R281	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R282	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R283	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R284	1-216-675-11	METAL	CHIP	10K	0.50%	1/10W
R285	1-216-041-00	METAL	GLAZE	470	5%	1/10W
R286	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R287	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R288	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R289	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R290	1-216-667-11	METAL	CHIP	4.7K	0.50%	1/10W
R291	1-216-651-11	METAL	CHIP	1K	0.50%	1/10W
R292	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R293	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R294	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R295	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R296	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R297	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R298	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R299	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R900	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R902	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R903	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R904	1-216-669-11	METAL	CHIP	5.6K	0.50%	1/10W
R905	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R906	1-216-682-11	METAL	CHIP	20K	0.50%	1/10W
R907	1-216-121-00	METAL	GLAZE	1M	5%	1/10W
R908	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R909	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R910	1-216-693-11	METAL	CHIP	56K	0.50%	1/10W
R911	1-216-627-11	METAL	CHIP	100	0.50%	1/10W
R912	1-216-659-11	METAL	CHIP	2.2K	0.50%	1/10W
R913	1-216-639-11	METAL	CHIP	330	0.50%	1/10W
R914	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R915	1-216-037-00	METAL	GLAZE	330	5%	1/10W
R916	1-216-069-00	METAL	GLAZE	6.8K	5%	1/10W
R917	1-216-061-00	METAL	GLAZE	3.3K	5%	1/10W
R918	1-216-687-11	METAL	CHIP	33K	0.50%	1/10W
R919	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R920	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R921	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R922	1-216-129-00	METAL	GLAZE	2.2M	5%	1/10W
R923	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R924	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R925	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R926	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R927	1-216-657-11	METAL	CHIP	1.8K	0.50%	1/10W
R928	1-216-695-11	METAL	CHIP	68K	0.50%	1/10W
R929	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R931	1-216-682-11	METAL	CHIP	20K	0.50%	1/10W
R933	1-216-097-00	METAL	GLAZE	100K	5%	1/10W
R934	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R935	1-216-067-00	METAL	GLAZE	5.6K	5%	1/10W
R936	1-216-097-00	METAL	GLAZE	100K	5%	1/10W
R937	1-216-657-11	METAL	CHIP	1.8K	0.50%	1/10W
R938	1-216-672-11	METAL	CHIP	7.5K	0.50%	1/10W
R939	1-216-693-11	METAL	CHIP	56K	0.50%	1/10W
R940	1-216-655-11	METAL	CHIP	1.5K	0.50%	1/10W
R941	1-216-671-11	METAL	CHIP	6.8K	0.50%	1/10W
R942	1-216-067-00	METAL	GLAZE	5.6K	5%	1/10W
R943	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R944	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R945	1-216-073-00	METAL	GLAZE	10K	5%	1/10W

REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
	R946	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R947	1-216-695-11	METAL CHIP	68K	0.50%	1/10W	
	R948	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
	R949	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
	R950	1-216-694-11	METAL CHIP	62K	0.50%	1/10W	
	R951	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R952	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
	R953	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
	R954	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R955	1-216-033-00	METAL GLAZE	220	5%	1/10W	
	R956	1-216-697-11	METAL CHIP	82K	0.50%	1/10W	
	R957	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
	R958	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
	R960	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
	R961	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
	R962	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
	R963	1-216-025-00	METAL GLAZE	100	5%	1/10W	
	R964	1-215-403-00	METAL	180	1%	1/4W	
	R965	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
	R966	1-216-117-00	METAL GLAZE	680K	5%	1/10W	
	R967	1-216-689-11	METAL CHIP	39K	0.50%	1/10W	
	R968	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R969	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R970	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R971	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R972	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R973	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R974	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
	R975	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
	R976	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	
	R977	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	
	R978	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
	R979	1-216-037-00	METAL GLAZE	330	5%	1/10W	
	R980	1-216-041-00	METAL GLAZE	470	5%	1/10W	
	R981	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
	R982	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R983	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R984	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R985	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R986	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R987	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R988	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
	R990	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
	R991	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R992	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R993	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R994	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R995	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R996	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R997	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R998	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R999	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
			<CRYSTAL>				
	X901	1-567-890-11	VIBRATOR, CRYSTAL				

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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK
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MISCELLANEOUS

	Δ .1-223-417-11	RESISTOR ASSY (HIGH-VOLTAGE)	
	Δ .1-251-141-11	INLET, AC (3P)	
	Δ .1-406-790-31	COIL, DEMAGNETIZATION	
	Δ .1-452-729-11	NECK ASSEMBLY (NA3011)	
	1-537-583-11	TERMINAL BOARD ASSY, I/O	
	1-900-048-40	CONNECTOR ASSY, MICRO 8P (SUB HARNESS)	
	1-900-076-09	CONNECTOR ASSY (MAIN HARNESS)	
V901	Δ .8-736-048-90	ITC ASSY (GDM-20E01T)	
	Δ .8-736-050-90	ITC ASSY	