

SERVICE MANUAL
HIGH-RESOLUTION DISPLAY MONITOR
TFW9105Series

MITSUBISHI ELECTRIC CORPORATION
Oct. 1996

CBB-S5614

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1. Specification

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Specification

1. Regulations

1.1 Geographical Region and Regulations

GEOGRAPHICAL REGION		REGULATIONS						
		SAFETY	EMC	X-RAY	ELF/VLF	Power Management	Ergonomics	Miscellaneous
NORTH AMERICA VERSION	TFW9105SKTK	UL/C-UL	FCC-B DOC-B EN61000-3-2	DHHS HWC	MPR-II TCO'91	Energy Star	TÜV-ERGO	TCO'92
EUROPE VERSION	TFW9105SKTKL	TÜV-GS	EN55022-B EN50082-1 EN61000-3-2	R&V	MPR-II TCO'91	NUTEK Energy Star	TÜV-ERGO	TCO'92 CE Marking

UL : UL1950 2nd Edition
 C-UL : CAN/CSA-C22.2 NO.950 1'st Edition
 TÜV-GS : EN60950:1992 & AD1/AD2 & ZH1/618
 FCC : 47 CFR Part15 Subpart B, Class B
 DOC : Interference-Causing Equipment Standard ICES-003 Issue 2, Class B
 DHHS : 21CFR Chapter I Subchapter J
 HWC : Radiation Emitting Devices Regulations Chapter 1370
 R&V : R&V Vom 8.1. 1987
 MPR-II : MPR 1990:8
 TUV-ERGO : ISO9241-3 & MPR-II
 TCO'92 : EN 60950:1992 & AD1/AD2, TCO'91 & NUTEK Spec. 803299/94
 NUTEK : NUTEK Spec. 803299/94
 CE-Marking : EN60950:1992 & AD1/AD2
 EN55022:1994 Class B
 EN50082-1:1992
 EN61000-3-2:1995
 Energy Star : International Energy Star Program

Enegy Star Office Equipment Program
 ----> Energy Star Program 96-5-21

German character changeed
 96-5-21

2. CRT Specifications

CRT model no.	M50LJG39X31
Type	Diamondtron (Aperture Grille)
Size	55cm / 50cm Diagonal Viewable Image. (21" / 19.7" Diagonal Viewable Image)
Grille Spacing	0.28mm
Deflection Angle	90 degree
Phosphor Type	B22 (Medium short persistence)
Electron Gun Type	P-NX DBF
Face-plate Transmission	39% (Include Face-plate coating)
Face-plate	coating (Anti-reflection, Anti-glare and Anti-static)
Screen Phosphor Area	398.3 × 298.7 mm (min)
Face-plate Curvature	H: R=1170mm , V: R=40000mm
Phosphor Color Coordinate	R: X=0.62 Y=0.34 (typical) G: X=0.29 Y=0.60 B: X=0.15 Y=0.07

X12 ---> X31
Add aperture Grille
Grille trio ---> Grille
96.6.25

Specification

3. Electric Specifications

3.1 Deflections

Horizontal (*)	Scanning Frequency	30 - 95kHz
	Back Porch	$\geq 1.2 \mu \text{ sec}$
	Blanking	$\geq 2.5 \mu \text{ sec}$
	H-sync Width	$\geq 0.9 \mu \text{ sec}$
Vertical	Scanning frequency	50 - 152Hz
	V-sync + V-back Porch	$\geq 500 \mu \text{ sec}$
	V-sync Width	$2H \leq V_s \leq 10H$

(*) Full screen adjustment may not be available for the timing which $T_{dh} / T_h < 75\%$.

T_{dh} : Horizontal Display Time

T_h : Horizontal Scanning Time

(*) add
96.6.25

3.2 Signal Input

Video Input Signal	R.G.B analog
Sync. Input Signal	Composite sync with Green video (Sync on Green) External composite sync, Negative TTL External HD/VD separate sync, TTL (N or P)
Video Input Impedance	75 Ω to ground
Sync. Input Impedance	D-SUB: 1K Ω to ground BNC: 1K Ω / 75 Ω
Signal Level	Video signal : 0.7V / 1.0V p-p $\pm 10\%$ Sync on Green : 0.3V p-p $\pm 10\%$ Separate H/V-sync. : 2.5 - 5.0V p-p (BNC Input) TTL level (D-SUB Input)

3.3 Video Performance

Video Band Width	50Hz to 180MHz $\pm 3\text{dB}$ (typ.) at 30V p-p
Pulse Rise and Fall time	4.5 nsec. (typ.) 10 to 90% at 30V p-p

- The rise and fall time of the input video signal is 2.0nsec or less.
- The pulse rise or fall time is determined using the formula :

$$T_a = \sqrt{T_m^2 - (T_s^2 + T_p^2 + T_{sc}^2)}$$

Where : T_a = Amplifier rise / fall time

T_m = Measured rise / fall time

T_s = Input signal rise / fall time

T_p = Probe effect on rise / fall time = $2.2 \times R_I \times C_p$

R_I = Amplifier output resistance (ohm)

C_p = Total probe capacitance (F)

T_{sc} = Scope rise / fall time = $0.35 / \text{Scope bandwidth (MHz)}$

3.4 Power Supply

Input Voltage	100 - 120 / 220 - 240 VAC $\pm$ 10%
Frequency	50/60Hz $\pm$ 3Hz
Power Consumption	nominal 150W (1.8A @100V 0.8A@220V)
AC leakage current	$\leq$ 3.5mA
Inrush current (cold start)	$\leq$ 70A 0-p at 240VAC on cold starting

3.5 Power Saving

Mode	H-sync	V-sync	Video	Power Consumption	Recovery Time	LED Indicator
Normal	On	On	Active	<150W	—	On
Stand-By	Off	On	Blank	<130W	in an instant	0.5 sec Blink
Suspend	On	Off	Blank	<15W	3 sec	2 sec Blink
Off	Off	Off	Blank	<8W	12 sec	3 sec on / 1 sec off Blink

- Power saving function complies with the VESA DPMS (Display Power Management Signaling) standard, NUTEK and International Energy Star Program.

3.6 Degaussing

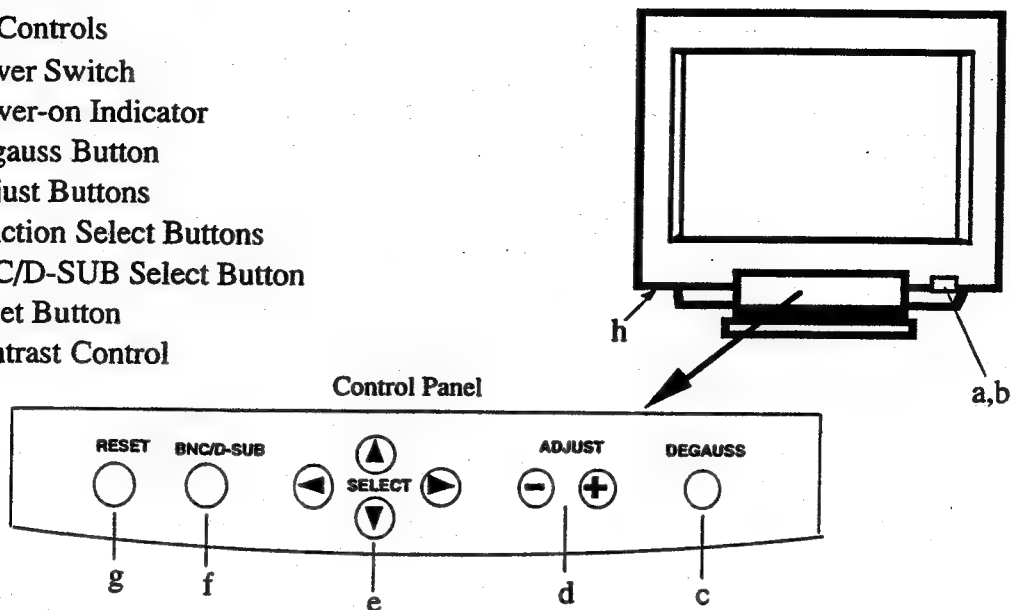
Auto Degaussing	The monitor have an automatic degaussing function which activates when the unit is turned on.
Manual Degaussing	This activates degaussing at the user's discretion after the unit is operating.

- The Monitor requires minimum 15 minutes after last degauss operation for full degauss capability.

4. Functions

4.1 Front Controls

- a : Power Switch
- b : Power-on Indicator
- c : Degauss Button
- d : Adjust Buttons
- e : Function Select Buttons
- f : BNC/D-SUB Select Button
- g : Reset Button
- h : Contrast Control



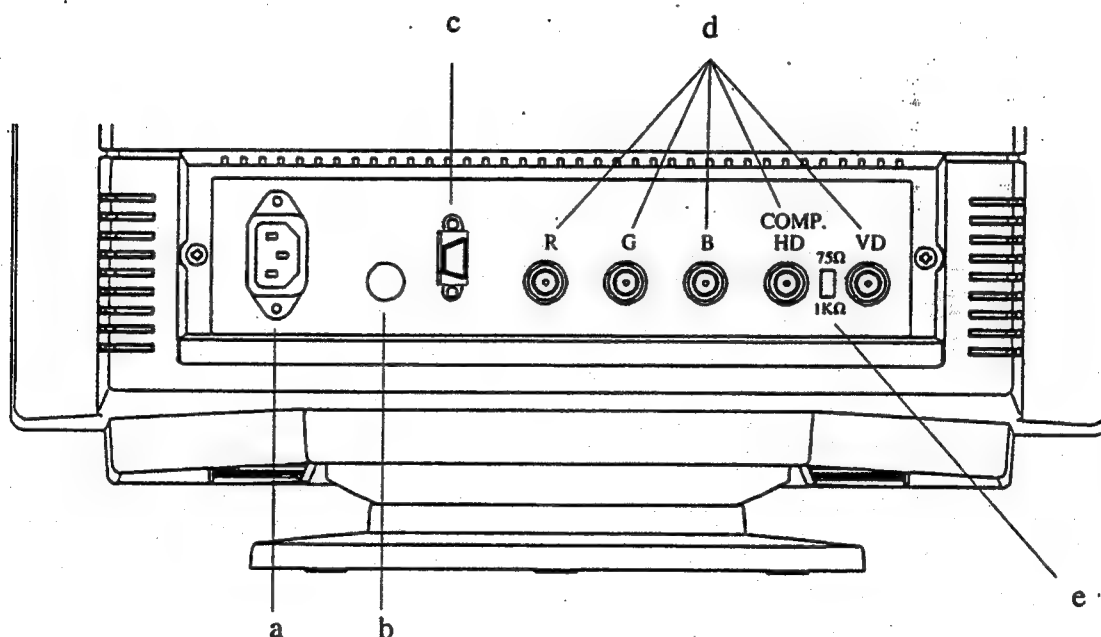
4.2 OSD (On Screen Display) Functions

< Normal Mode >				default	< Enhanced Mode >			default			
1	CONTRAST		0 - 100%	100%	1	H-POSI		0 - 100%	adjusted		
	BRIGHT		0 - 100%	adjusted		CENTER-PCC		0 - 100%	adjusted		
2	CONNECTOR		BNC/DSUB	D-SUB		CORNER-PCC		0 - 100%	adjusted		
	H-SIZE		0 - 100%	adjusted		BOTTOM-PCC		0 - 100%	adjusted		
	H-PHASE		0 - 100%	adjusted		TOP-BALANCE		0 - 100%	adjusted		
	V-SIZE		0 - 100%	adjusted		PCC-SINE		0 - 100%	adjusted		
	V-POSITION		0 - 100%	adjusted	2	CLAMPPULSE POSITION		front / back	back		
	PCC-AMP		0 - 100%	adjusted		PURITY		0 - 100%	adjusted		
	PCC-PHASE		0 - 100%	adjusted		VIDEO LEVEL		1.0V / 0.7V	0.7V		
	PIN-BAL		0 - 100%	adjusted		TOP-PHASE PCC-SIN -----> TOP-BALANCE PCC-SINE Diag : Color Check ---> move to last 96.5.23 CONNECTOR 0-100% adjusted ----> BNC/DSUB D-SUB COLOR-B ----> COLOR-3 96.6.25					
	KEY-BAL		0 - 100%	adjusted							
	ROTATION		0 - 100%	adjusted							
H-STATIC		0 - 100%	adjusted								
3	COLOR-1 (9300K) (default)	R-Gain	0 - 100%	adjusted	< Help Mode >						
		G-Gain	0 - 100%	adjusted							
		B-Gain	0 - 100%	adjusted							
4	COLOR-2 (6550K)	R-Gain	0 - 100%	adjusted	1	DIAGNOSIS	· Horizontal Frequency				
		G-Gain	0 - 100%	adjusted			· Vertical Frequency				
		B-Gain	0 - 100%	adjusted			· Preset Information				
5	COLOR-3 (9300K)	R-Gain	0 - 100%	adjusted			· Color Check				
		G-Gain	0 - 100%	adjusted			2	OPERATION HELP	· OSD QUIT		
		B-Gain	0 - 100%	adjusted					· CENTER POSITION		
6	POWER-SAVE		off / on	on							
	MOIRE-CLEAR		off / on	off							
	MOIRE-CLEAR-LEVEL		0 - 100%	0%							

4.3 Back Panel

- a : AC Power Connector (3P IEC Plug)
- b : Serial Interface Connector (DIN-8P)
- c : Signal Input Connector (DB9-15P)
- d : Signal Input Connector (BNC)
 - for Red-video
 - Green-video or Composite sync with Green video
 - Blue-video
 - H-sync or Composite sync
 - V-sync
- e : Sync Termination Switch for BNC input signal of H and V-sync.
(Default setting is 1K Ω .)

Add Sync Termination SW
96-5-25

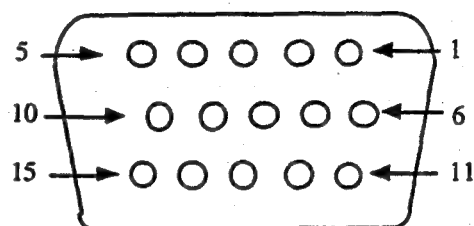


Specification

4.4 Connector Pin Assignment

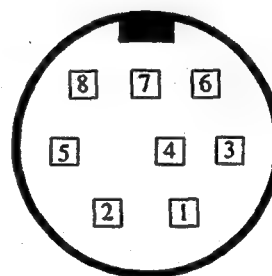
1) Signal Input Connector (DB9-15P)

Pin	Signal
1	Red-video
2	Green-video or Composite sync with Green video
3	Blue-video
4	Gnd
5	DDC Gnd
6	Red Gnd
7	Green Gnd
8	Blue Gnd
9	N.C.
10	Sync Gnd
11	Gnd
12	Serial data
13	H-sync or Composite sync
14	V-sync (V-clock)
15	Serial clock



2) Serial Interface Connector

Pin	Signal
1	DTR (Data Terminal Ready)
2	N.C.
3	TXD (Transmit Data)
4	Gnd
5	RXD (Receive Data)
6	Gnd
7	N.C.
8	N.C.



4.5 DDC (Display Data Channel) Functions

VESA DDC1 and DDC2B Compliance (EDID data only).

4.6 Preset Timing

Factory-preset : max 12

User-preset : max 12

Descliminate ----> Discriminate
distinction ----> distinguish
96-6-25

Timing Descliminate Conditions

Horizontal Frequency	$\geq 1\text{kHz}$
Vertical Frequency	$\geq 5\text{Hz}$
Sync Signal Polarity	H or V-sync signal polarity is different.

- The monitor can distinguish the input signals by at least one of above conditions.

5. Display Quality

5.1 Test Conditions

AC Voltage	120VAC 60Hz or 230VAC 50Hz
Video Signal	1600×1200 (93.75kHz, 75.0Hz) 0.7V _{p-p}
Warm Up	More than 30 min. with full white picture
Temperature	20 - 25 °C
Relative Humidity	40 - 80%
Magnetic Field	BH=0, BV=0.040mT
Contrast & Brightness	Contrast maximum and Brightness detent position
Display Size	380×285mm for 4:3 aspect ratio
Ambient light	200 ± 50 lx
Luminance Meter	Minolta CA100 or Equivalent

• Unless specified, the monitor is set at the factory default setting.

5.2 Display size

Display Size at 4:3 aspect ratio	Width: 380mm ± 5mm, Height: 285mm ± 5mm
Display Size at 5:4 aspect ratio	Width: 356mm ± 5mm, Height: 285mm ± 5mm

5.3 Luminance

Luminance	Full White: $\geq 100\text{cd/m}^2$ (at 9300K + 8 M.P.C.D.)
Luminance Variation	$\Delta\text{Luminance} / \text{Center Luminance} \leq 25\%$
Back Raster Luminance	$0.3 \pm 0.15\text{cd/m}^2$ at Brightness detent position Raster must not visible at minimum Brightness control

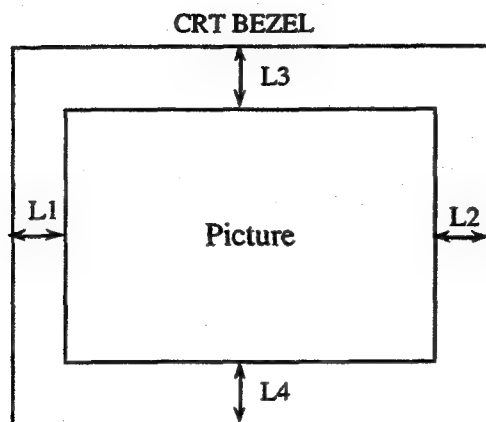
5.4 Color

Color Temperature	Color-1: 9300K + 8 M.P.C.D. X=0.283 ± 0.020 Y=0.297 ± 0.020
	Color-2: 6550K + 7 M.P.C.D. X=0.316 ± 0.020 Y=0.326 ± 0.020
	Color-3: 9300K + 8 M.P.C.D. X=0.283 ± 0.020 Y=0.297 ± 0.020
White Uniformity	≤ 0.020 : in either the X or Y shift between the center and peripheral area
Color Tracking	Video Input Level: 0.020 from 10cd/m^2 to Maximum
	Contrast Control: 0.020 from 25cd/m^2 to Maximum at detent Brightness position

5.5 Display Centering

Centering	$ L1 - L2 \leq 4\text{mm}, L3 - L4 \leq 4\text{mm}$
-----------	--

- With Full-White applied.
- The active area is centered as follows for all factory preset timings in Appendix 1.



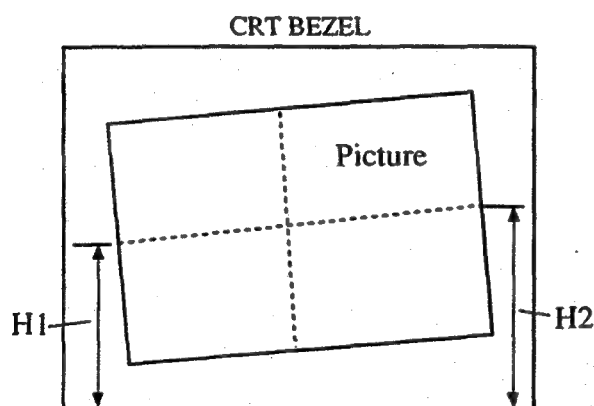
$$|L1 - L2| \leq 4\text{ mm}$$

$$|L3 - L4| \leq 4\text{ mm}$$

5.6 Rotation

Rotation	$ H1 - H2 \leq 5\text{ mm}$
----------	------------------------------

- With Green-Crosshatch applied.
- The active display rotation is such that a horizontal line located at the center of the display is less than 5.0mm.



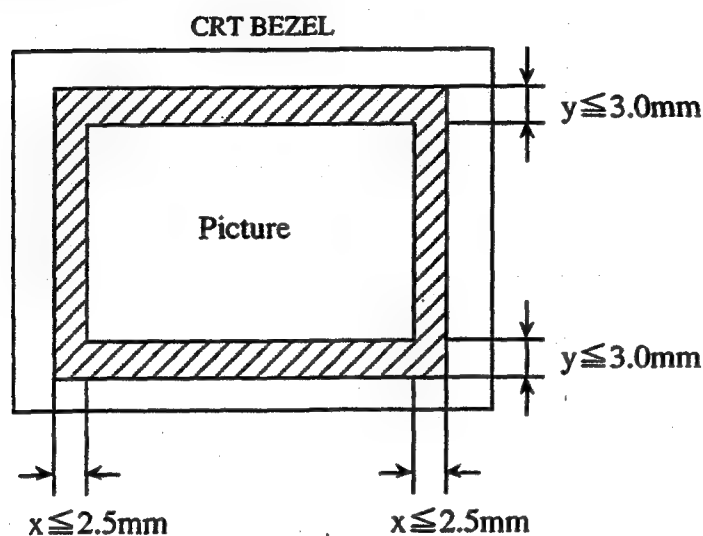
$$|H1 - H2| \leq 5\text{ mm}$$

Specification

5.7 Other Distortion

Other Distortion Except rotation and centering	$x : \leq 2.5\text{mm}, y : \leq 3.0\text{mm}$
---	--

- With Green-Crosshatch applied.
- The other distortion is defined as the total of all image distortion excluding rotation and display centering.

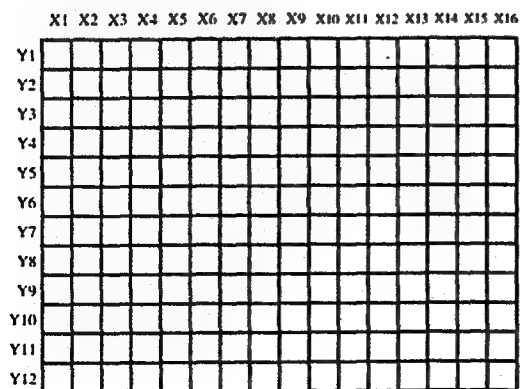


5.8 Linearity

Linearity	$H: \leq 12\%$
	$V: \leq 12\%$

- With Green-Crosshatch (17 lines horizontally by 13 lines vertically) applied.
- Heights and widths of squares anywhere on the screen is less than 12%.
- The formula used to calculate linearity is:

$$\frac{X_{\max} - X_{\min}}{X_{\max}} \times 100\%$$



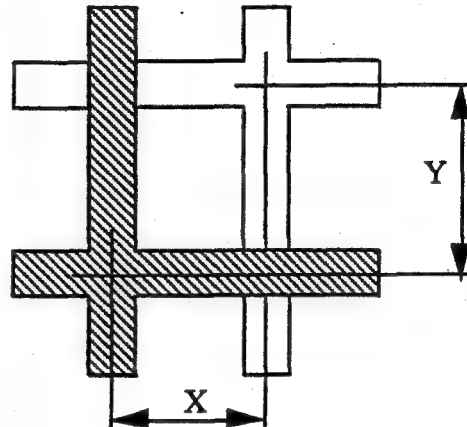
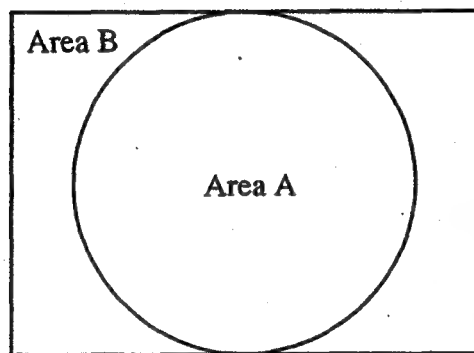
$$X1=X2=X3=\dots=X16$$

$$Y1=Y2=Y3=\dots=Y12$$

5.9 Misconvergence

Misconvergence	Area A: $\leq 0.3\text{mm}$ within the 285mm diameter circle
	Area B: $\leq 0.4\text{mm}$ within $380\text{mm} \times 285\text{mm}$

- With White-Crosshatch applied.
- Zone A is a circular area with 285mm diameter at the center.
- Zone B is a rectangular area ($380\text{mm} \times 285\text{mm}$) outside of the zone A.
- Use worst case horizontal/vertical misconvergence between any two primary colors.



5.10 Raster Regulation

Rater Size Regulation	$\leq 0.5\%$ of the horizontal or vertical picture size
-----------------------	---

- The picture size change is less than adjusted value in either the horizontal or vertical direction over 30% to 100% luminance range and 90 - 132VAC or 198 - 264VAC Input respectively.

6. Mechanical Specifications

6.1 Cabinet, Tilt / Swivel Base

Molded material	Cabinet : ABS (Flame Class 5VA) Tilt /Swivel Base : ABS (Flame Class HB)
Cabinet color	Ivory-White (Mitsubishi Standard Color: B-N-C080)
Bezel Logo	See Fig. 1
Tilt & Swivel	Right & Left : -45° to $+45^{\circ}$ Up & Down : 10° to 5°
Dimension	500mm (W) $\times$ 490mm (H) $\times$ 488mm (D) 19.7" (W) $\times$ 19.3" (H) $\times$ 19.2" (D) (include Tilt /Swivel Base : See Fig. 1)

6.2 Rating Label

NORTH AMERICA Version : See Fig. 2

EUROPE Version : See Fig. 2

6.3 Carton Box

Paper Material	Kraftliner and trifaced corrugated board (Double wall)
Carton Box Print	NORTH AMERICA Version : See Fig. 4 EUROPE Version : See Fig. 5
Dimension	See Fig. 3
Packing Contents	See Fig. 6

6.4 Weight

Net	35kg
Gross	39kg

Add Fig. No.
96-5-25
Net Gross TBD
----> 35kg 39kg
96.6.25

6.5 Accessories

AC Power Cord	NORTH AMERICA Version : See Fig. 4 EUROPE Version : See Fig. 5
Signal Cable	SC-B102 (D-SUB /D-SUB type : See Fig.9)
Macintosh-Adaptor	AD-A205 (for Macintosh : See Fig.10)
User's Guide	NORTH AMERICA version : English EUROPE version : 4 Languages (English, German, French, Italian)

Specification

7. Environmental Conditions

7.1 Temperature, Relative Humidity & Altitude

	Operating	Storage and shipment
Temperature	5 - 35°C	-20 - 60°C
Relative Humidity	10 - 90% without condensation	10 - 95% without condensation
Altitude	3000m (10000ft)	15000m (50000ft)

16000 ----> 15000
96.5.23

7.2 Vibration Test (with carton box)

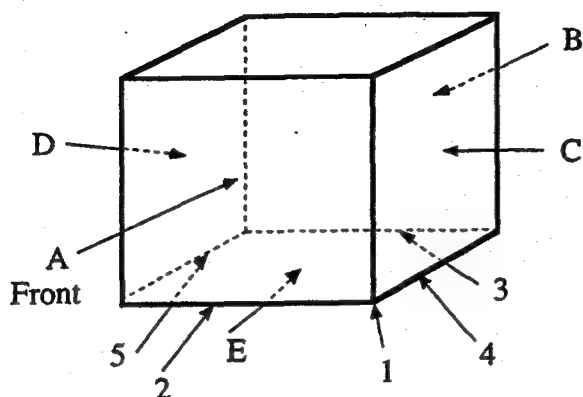
1) Swept Sine (Resonances Search and Dwell)

Test Axis	3 axis
Search Frequency	5 - 200Hz
Sweep Time	2 minutes
Acceleration	0.5G (zero to peak)
Dwelling Time	5 minutes for each resonant point of each 3 axis
Mounting	fixed firmly on the vibration table

2) Random Vibration

Test Axis	3 axis
Search Frequency	5 - 200Hz
Acceleration	0 - 1.47Grms
Dwelling Time	30 minutes × 3 axis
Mounting	fixed firmly on the vibration table

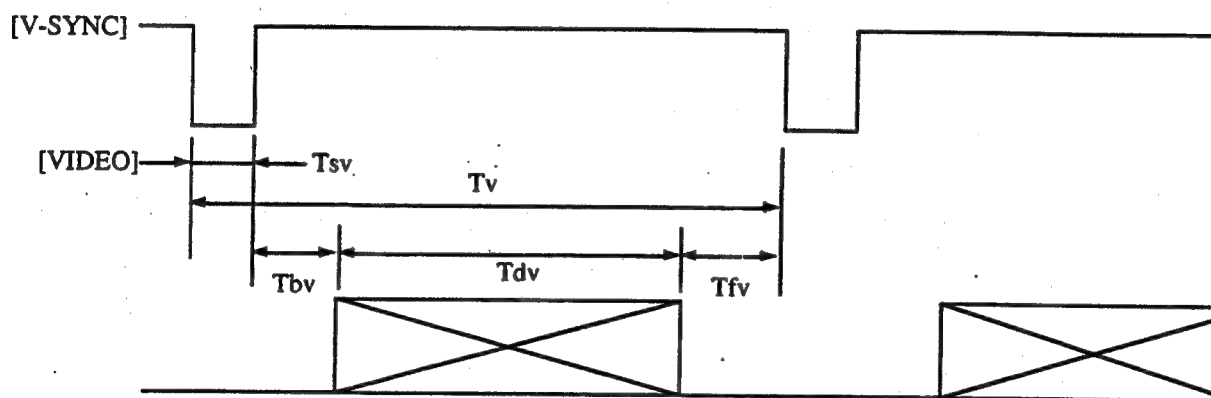
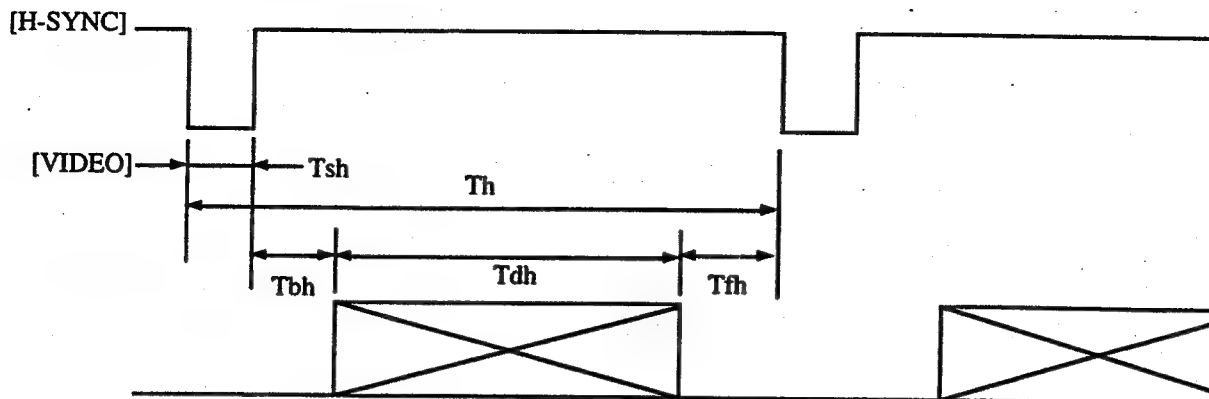
7.3 Drop Test (with carton box)



The inside unit shall be withstand without any damage by following procedure.
Drop to the hard wooden board from the position of the following heights.

	Position	Height
Corner	1	46cm (18 inch)
Edge	2, 3, 4, 5	46cm (18 inch)
Surface	A, B, C, D, E	46cm (18 inch)

Appendix 1 Preset Timing Chart



	T_h (μ SEC)	T_{sh} (μ SEC)	T_{fh} (μ SEC)	T_{bh} (μ SEC)	T_{dh} (μ SEC)	T_v (mSEC)	T_{sv} (mSEC)	T_{fv} (mSEC)	T_{bv} (mSEC)	T_{dv} (mSEC)	Hs	Vs	Fh (kHz)	Fv (Hz)	Remarks
User	31.778	3.813	0.636	1.907	25.422	14.268	0.064	0.382	1.111	12.711	-	+	31.470	70.090	640*400
Factory	26.667	2.032	0.508	3.810	20.317	13.333	0.080	0.027	0.426	12.800	-	-	37.500	75.000	VESA 640x480
Factory	21.333	1.616	0.323	3.232	16.162	13.333	0.064	0.021	0.448	12.800	+	+	46.875	75.000	VESA 800x600
User	20.115	1.118	0.559	3.910	14.528	13.417	0.060	0.020	0.785	12.552	-	-	49.700	74.500	APPLE 16 (832x624)
Factory	16.661	1.219	0.203	2.235	13.004	13.328	0.050	0.017	0.466	12.795	+	+	60.023	75.029	VESA 1024x768
Factory	14.560	1.280	0.320	1.440	11.520	13.322	0.044	0.043	0.568	12.667	-	-	68.700	75.100	APPLE 21 (1152x870)
Factory	12.504	1.067	0.119	1.837	9.481	13.329	0.038	0.013	0.475	12.804	+	+	79.976	75.025	VESA 1280x1024
Factory	10.667	0.948	0.316	1.501	7.901	13.333	0.032	0.011	0.491	12.800	+	+	93.750	75.000	VESA 1600x1200

Appendix 2 EDID DATA (1/2)

< EDID DATA DUMP HEX >

```

00 FF FF FF FF FF FF 00
34 AC E0 40 * * * *
W Y 01 00 0E 26 1C 69
E8 04 88 A0 57 4A 9B 26
12 48 4C A4 67 80 01 01
01 01 01 01 01 01 01 01
01 01 01 01 01 01 1A 4F
40 30 62 B0 32 40 40 C0
13 00 7C 1D 11 00 00 1E
86 3D 00 C0 51 00 30 40
30 A0 13 00 64 1D 11 00
00 1A 02 3A 00 C0 51 C0
33 30 30 A0 13 00 7C 1D
11 00 00 1A EA 24 00 60
41 00 28 30 30 60 13 00
7C 1D 11 00 00 1A 00 S

```

< EDID DATA DUMP TEXT >

```

Vendor Name: MEL
Product Code LSB (HEX): e0
Product Code MSB (HEX): 40
Microsoft INF ID: MEL40E0
Serial Number: 0   HEX: 0
Week of Manuf: W
Year of Manuf: Y

EDID Version: 1
EDID Revision: 0
Extension Flag: 0

Input Singal: ANALOG
Setup: NO
Sync on Green: YES
Composite Sync: YES
Separate Sync: YES
V Sync Serration: NO
V Signal Level: 0.700V/0.300V (1V p-p)

Max Image Size H (cm): 38
Max Image Size V (cm): 28
DPMS Stand By: YES
DPMS Suspend: YES
DPMS Active Off: YES
Display Type: RGB Color

Gamma: 2.05
Red X: 0.625
Red Y: 0.340
Green X: 0.290
Green Y: 0.605
Blue X: 0.150
Blue Y: 0.070
White X: 0.283
White Y: 0.297

Established Timings:
640x400@70
640x480@60
640x480@75
800x600@75
832x624@75
1024x768@70
1024x768@75
1152x870@75
1280x1024@75

```

Appendix 2 EDID DATA (2/2)

Standard Timing #1:
NOT USED

Standard Timing #2:
NOT USED

Standard Timing #3:
NOT USED

Standard Timing #4:
NOT USED

Standard Timing #5:
NOT USED

Standard Timing #6:
NOT USED

Standard Timing #7:
NOT USED

Standard Timing #8:
NOT USED

Detailed Timing #1:
Pixel Clock: 202.50
Horizontal Active: 1600
Horizontal Blanking: 560
Vertical Active: 1200
Vertical Blanking: 50
Horizontal Sync Offset: 64
Horizontal Sync Width: 192
Vertical Sync Offset: 1
Vertical Sync Width: 3
Horizontal Border: 0
Vertical Border: 0
Horizontal Image Size: 380
Vertical Image Size: 285
Interlaced: NO
Image: Normal Display
Sync: Digital Separate
Bit 1: ON
Bit 2: ON

Detailed Timing #2:
Pixel Clock: 157.50
Horizontal Active: 1280
Horizontal Blanking: 448
Vertical Active: 1024
Vertical Blanking: 48
Horizontal Sync Offset: 48
Horizontal Sync Width: 160
Vertical Sync Offset: 1
Vertical Sync Width: 3
Horizontal Border: 0
Vertical Border: 0
Horizontal Image Size: 356
Vertical Image Size: 285
Interlaced: NO
Image: Normal Display
Sync: Digital Separate
Bit 1: ON
Bit 2: OFF

Detailed Timing #3:
Pixel Clock: 148.50
Horizontal Active: 1280
Horizontal Blanking: 448
Vertical Active: 960
Vertical Blanking: 51
Horizontal Sync Offset: 48
Horizontal Sync Width: 160
Vertical Sync Offset: 1
Vertical Sync Width: 3
Horizontal Border: 0
Vertical Border: 0
Horizontal Image Size: 380
Vertical Image Size: 285
Interlaced: NO
Image: Normal Display
Sync: Digital Separate
Bit 1: ON
Bit 2: OFF

Detailed Timing #4:
Pixel Clock: 94.50
Horizontal Active: 1024
Horizontal Blanking: 352
Vertical Active: 768
Vertical Blanking: 40
Horizontal Sync Offset: 48
Horizontal Sync Width: 96
Vertical Sync Offset: 1
Vertical Sync Width: 3
Horizontal Border: 0
Vertical Border: 0
Horizontal Image Size: 380
Vertical Image Size: 285
Interlaced: NO
Image: Normal Display
Sync: Digital Separate
Bit 1: ON
Bit 2: OFF

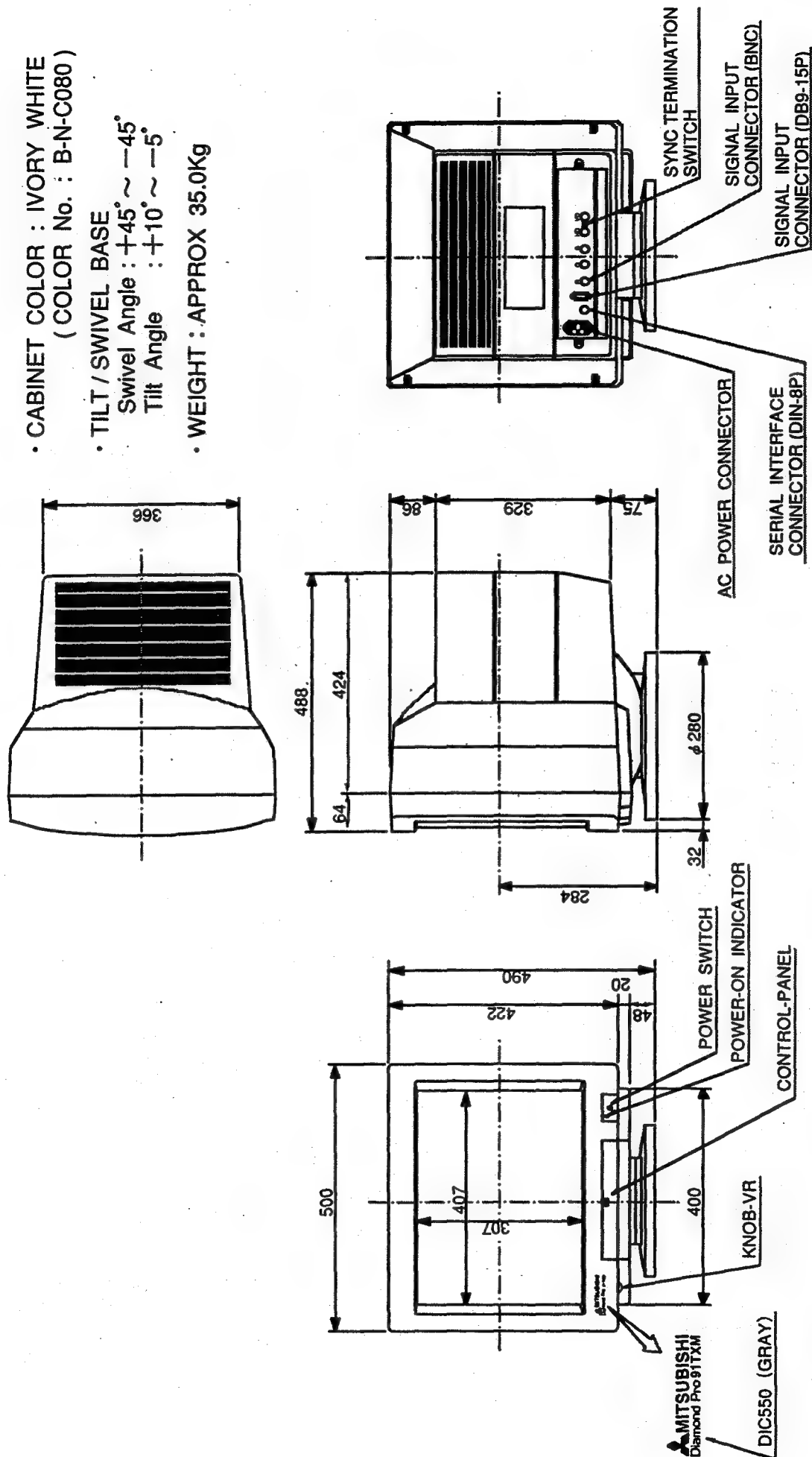


Fig. 1 OUTLINE

198.5±0.5

4-R1

63.5±0.5

 MITSUBISHI Color Display Monitor Model No. TFW9105SKTK 100-120V~/220-240V~ 50/60Hz 1.8A/0.8A		 LISTED Info Tech Equip 713 E142210 C    	
FCC ID: BGBTFW9105K			
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.			
This product complies with EMCIS Rules 21 CFR Subchapter J applicable at date of manufacture.			
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.			
Serial No.		Manufactured	
		CHASSIS FAMILY : W9105	
		MITSUBISHI ELECTRIC CORPORATION 517-7 Hamada-go Togitsu-cho Nishisonogi-gun, Nagasaki, Japan MADE IN JAPAN	

NORTH AMERICA VRSION

 MITSUBISHI Color Display Monitor Model No. TFW9105SKTKL 100-120V~/220-240V~ 50/60Hz 1.8A/0.8A		 LISTED Info Tech Equip 713 E142210 C    	
Beschleunigungsspannung maximal 1 kV. Vorsicht Hochspannung! Die in diesem Gerät erzeugten Röntgenstrahlen sind durch die eigensichere Kathodenstrahlröhre ausreichend abgeschirmt.			
Serial No.		Manufactured	
		CHASSIS FAMILY : W9105	
		MITSUBISHI ELECTRIC CORPORATION 517-7 Hamada-go Togitsu-cho Nishisonogi-gun, Nagasaki, Japan MADE IN JAPAN	

EUROPE VRSION

Fig. 2 RATING LABEL

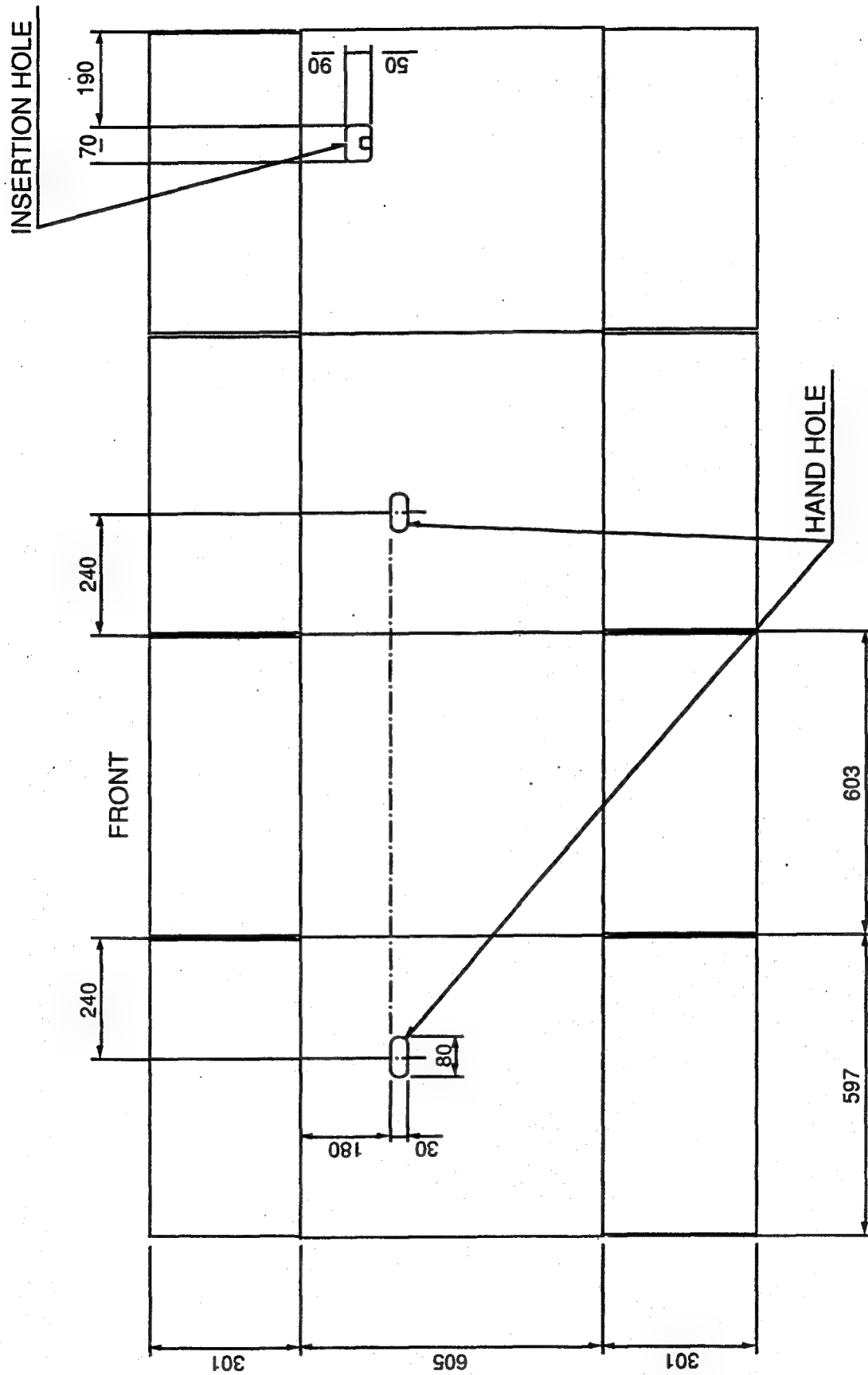
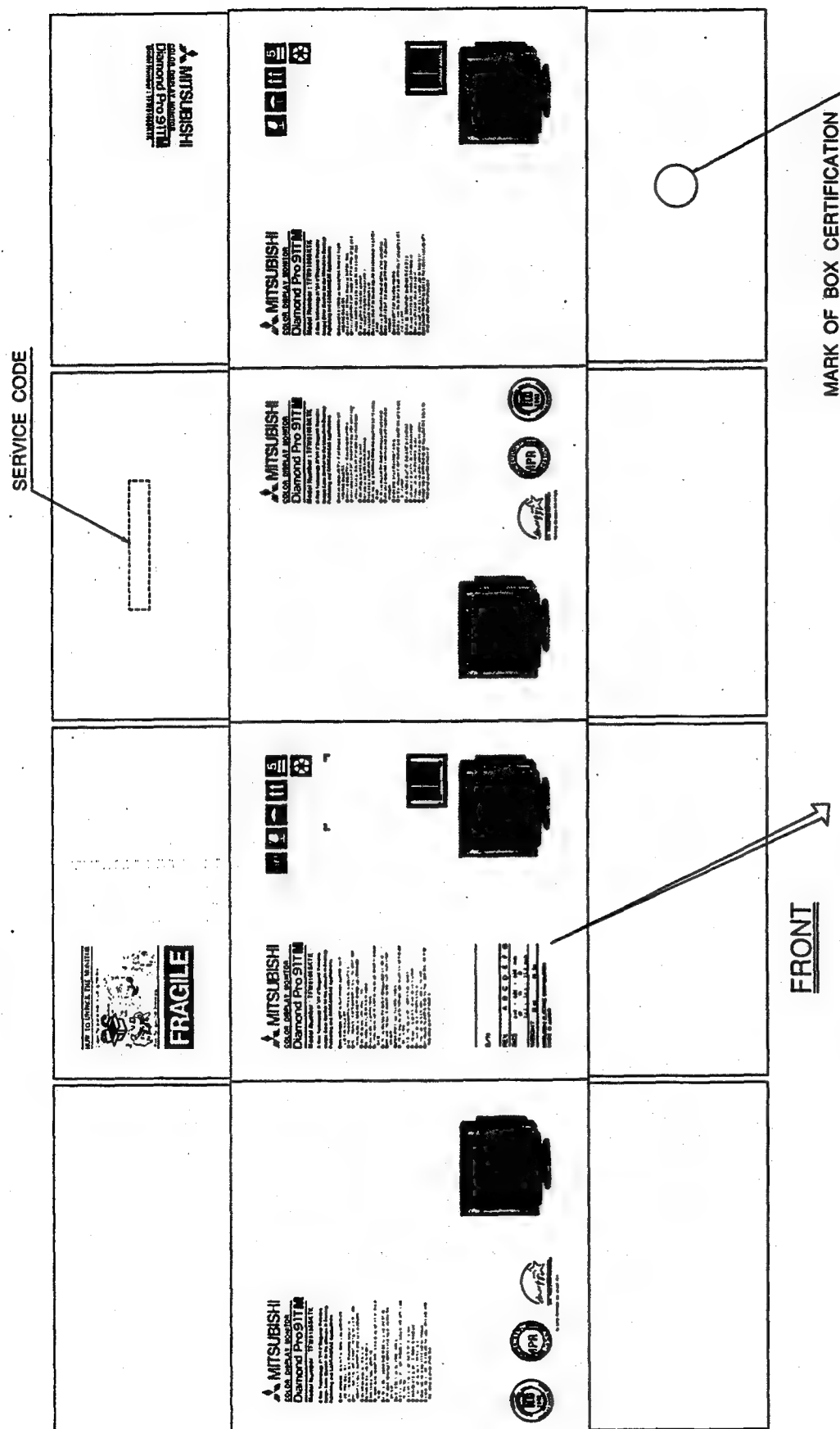


Fig. 3 CARTON BOX

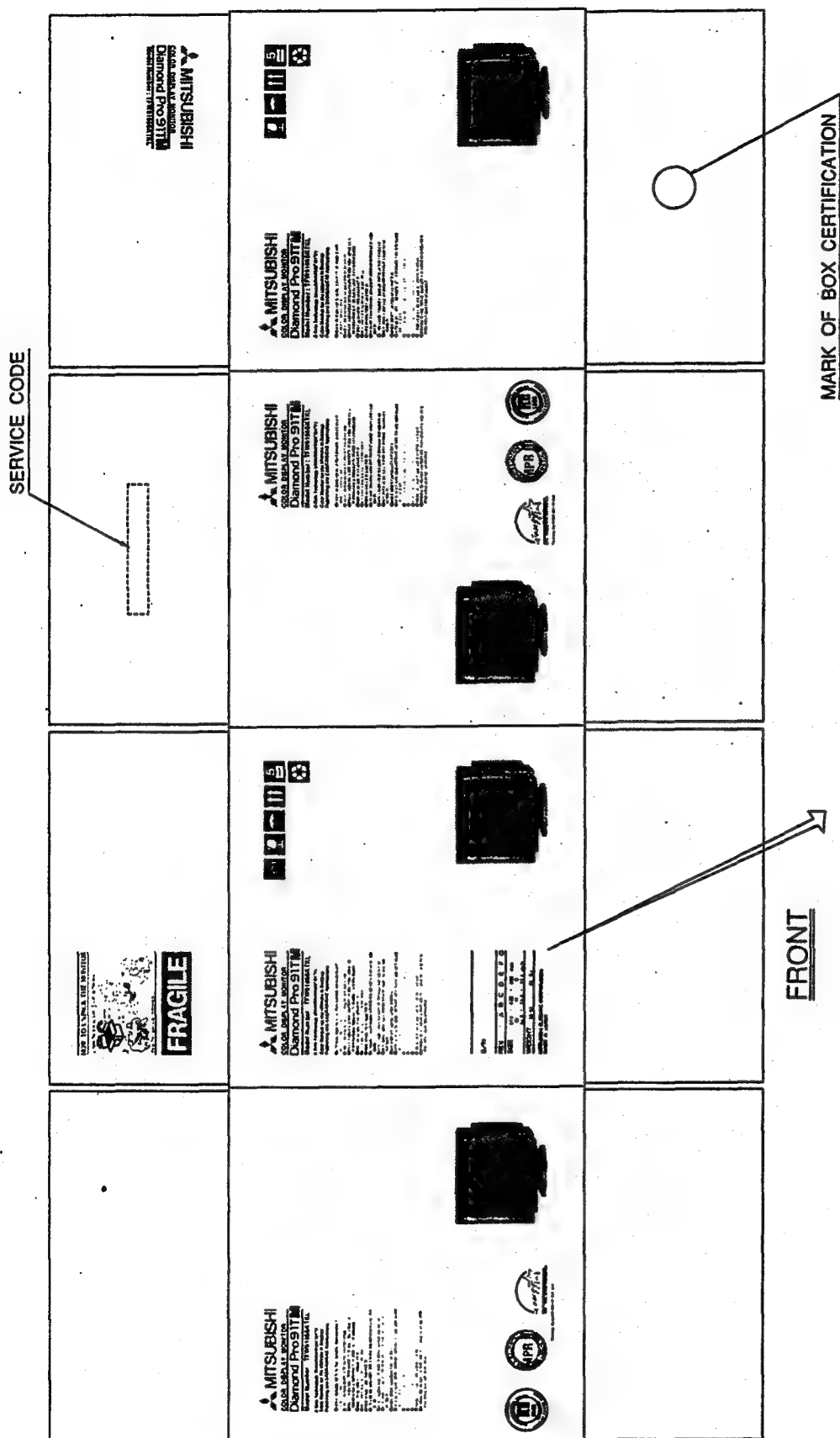


S/N

REV.	A	B	C	D	E	F	G
SIZE	610	X	620	X	605	mm	
W					H	D	
	24.0	X	24.4	X	23.8	inch	
WEIGHT	39	kg	/	86	lbs		
MITSUBISHI ELECTRIC CORPORATION MADE IN JAPAN							

•COLOR OF PAPER : KRAFT COLOR (BROWN BOX)
•COLOR OF PRINTING : BLACK

Fig. 4 PRINTING SPECIFICATION OF CARTON BOX (NORTH AMERICA VERSION)



S/N

REV.	A	B	C	D	E	F	G
SIZE	610	X	620	X	605	mm	
	W		H		D		
	24.0	X	24.4	X	23.8	inch	
WEIGHT	39	kg	/	86	lbs		
MITSUBISHI ELECTRIC CORPORATION MADE IN JAPAN							

•COLOR OF PAPER : KRAFT COLOR (BROWN BOX)
•COLOR OF PRINTING : BLACK

Fig. 5 PRINTING SPECIFICATION OF CARTON BOX (EUROPE VERSION)

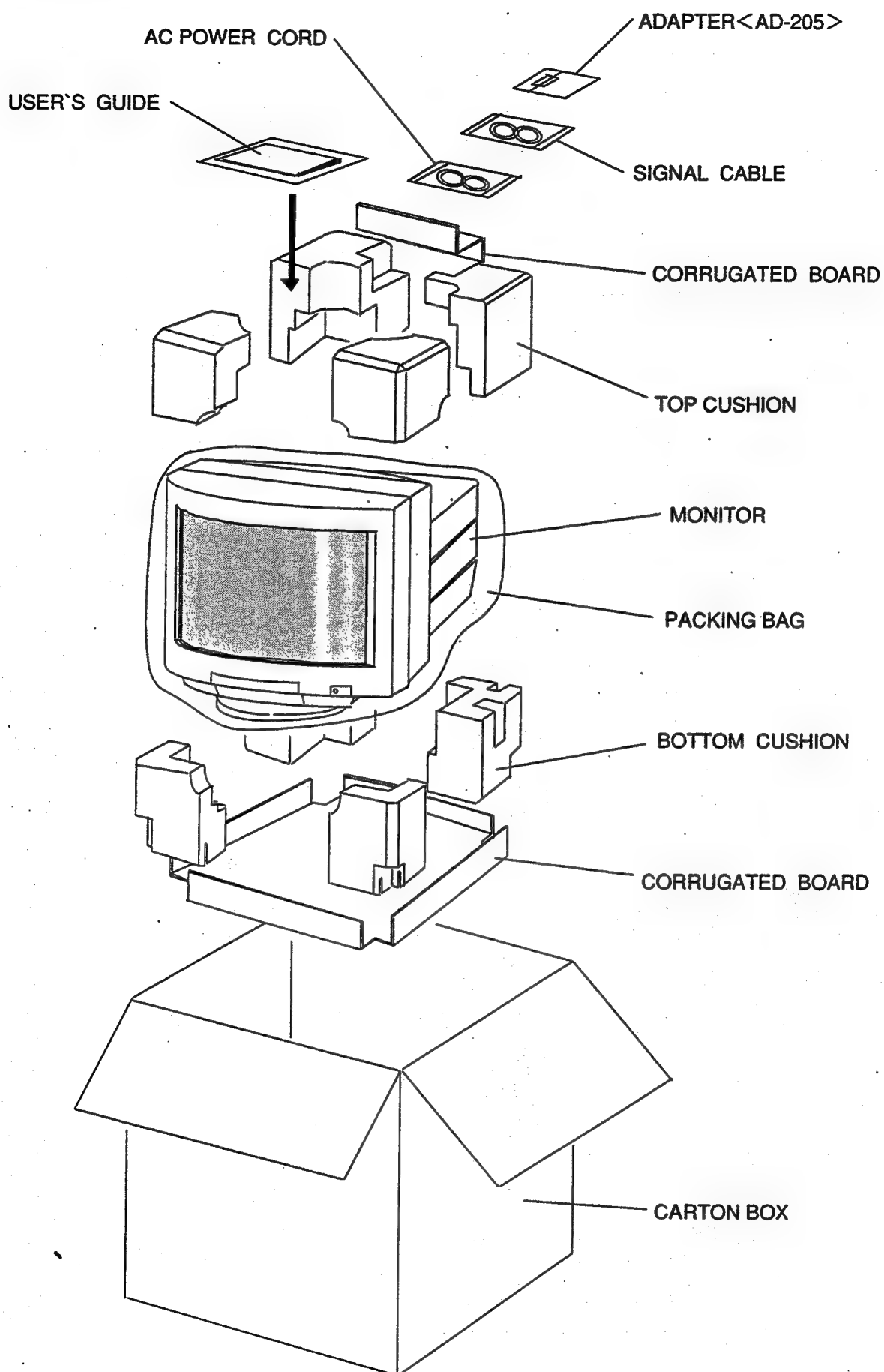
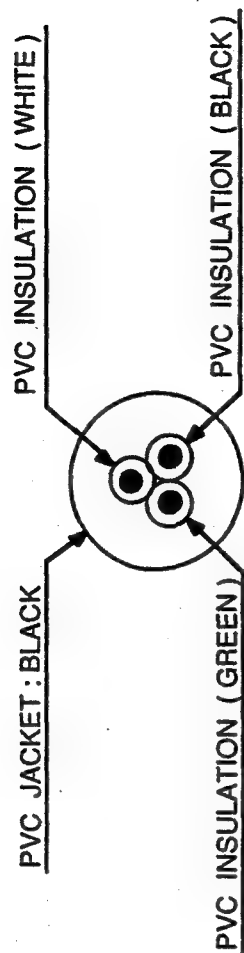


Fig 6. PACKING STYLE

[SPECIFICATION]

1. CABLE : Cross - section Area...AWG18X3C
2. JACKET : PVC
3. ABILITY
 - (1) VOLTAGE : AC 125V
 - (2) AMPERAGE : AC 7A
 - (3) TEMPERATURE : 60°C
4. REGULATORY APPROVALS : UL, CSA



CONSTRUCTION

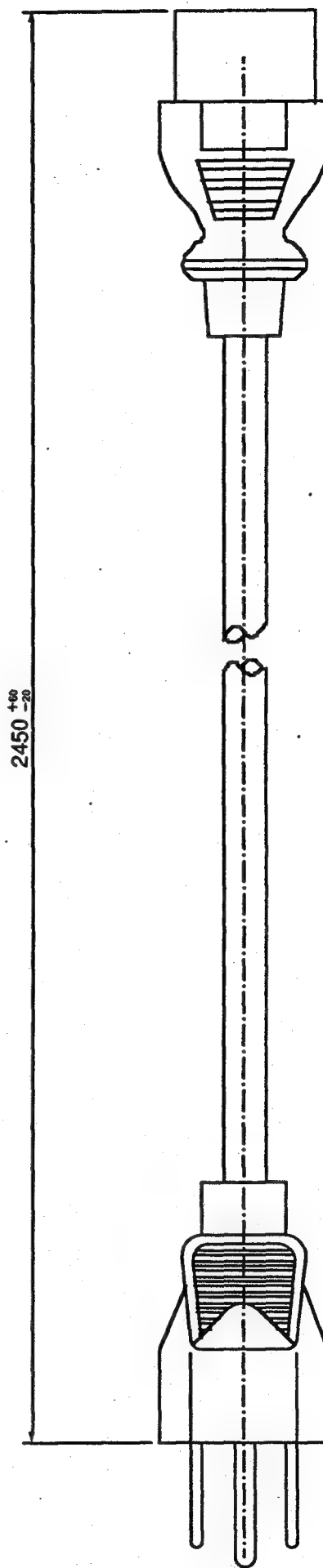


Fig 7. AC POWER CORD (NORTH AMERICA VERSION)

Specification

[SPECIFICATION]

1. CABLE : Cross - section Area...AWG18X3C

2. JACKET : PVC

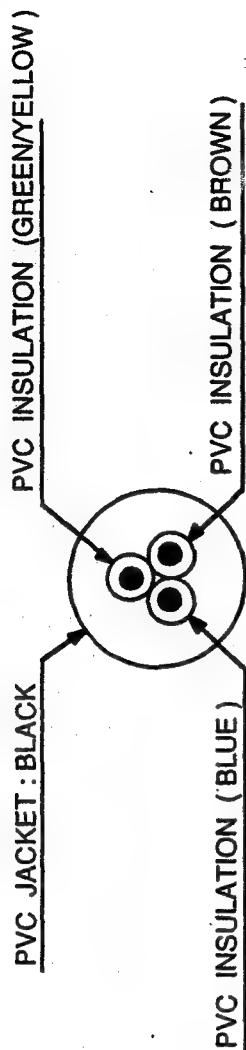
3. ABILITY

(1) VOLTAGE : AC 250V

(2) AMPERAGE : AC 10A

(3) TEMPERATURE : 60°C

4. REGULATORY APPROVALS : CEBEC,KEMA,S,N,OVE,
FI,D, NF-USE, VDE



CONSTRUCTION

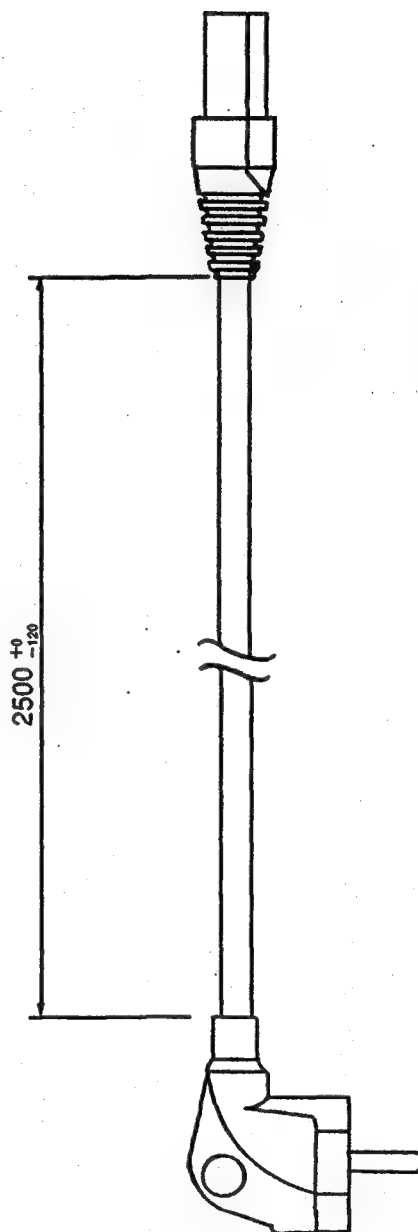
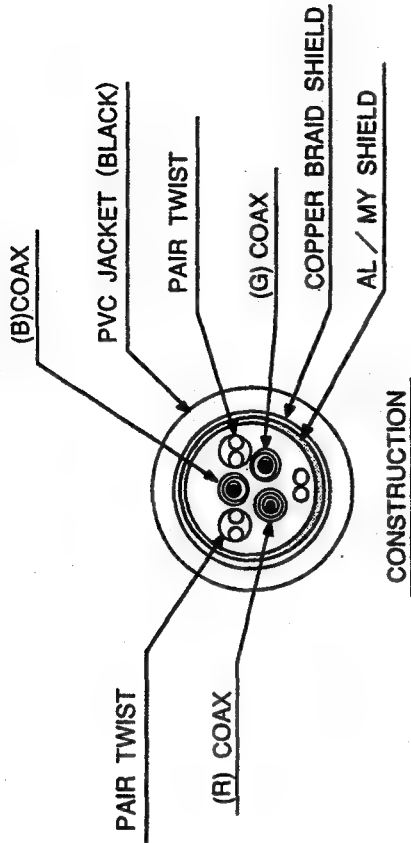


Fig. 8 AC POWER CORD (EUROPE VERSION)

[SPECIFICATION]

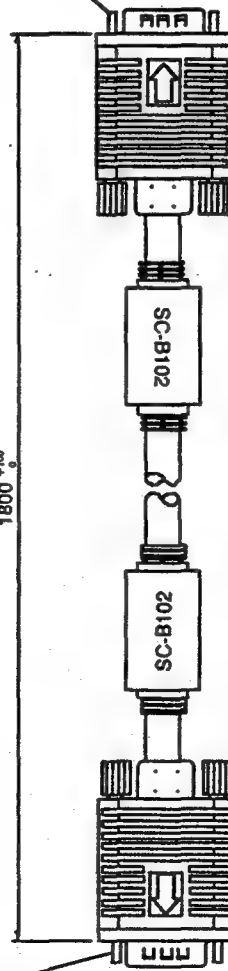
1. JACKET : PVC
2. ABILITY
 - (1) VOLTAGE : 30V
 - (2) TEMPERATURE : 60°C



SCREW
No.4-40 UNC

1800 ±100

SCREW
No.4-40 UNC



WIRING LIST

DM	P/C	SIGNAL
1 0	0 1	Red - video
6 0	0 6	Red Gnd
2 0	0 2	Green - video IR
7 0	0 7	Composite sync with Green video
3 0	0 3	Green Gnd
8 0	0 8	Blue - video
4 0	0 4	Blue Gnd
13 0	0 13	Gnd
10 0	0 10	H - sync or Composite sync
12 0	0 12	Sync Gnd
5 0	0 5	Serial data
9 0	0 9	DDC Gnd
11 0	0 11	N.C.
14 0	0 14	Gnd
15 0	0 15	V - sync (V-clock)
		Serial clock

Fig. 9 SIGNAL CABLE (SC-B102)

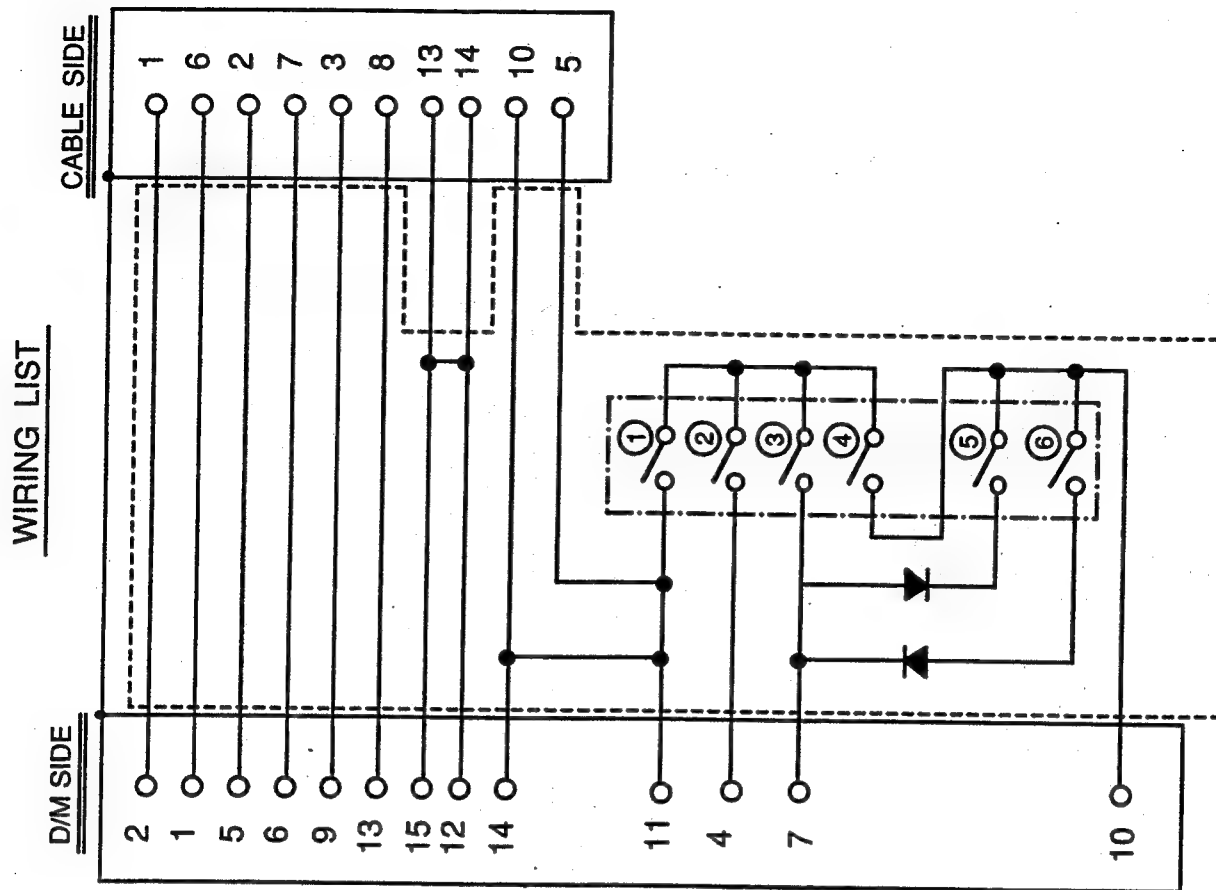
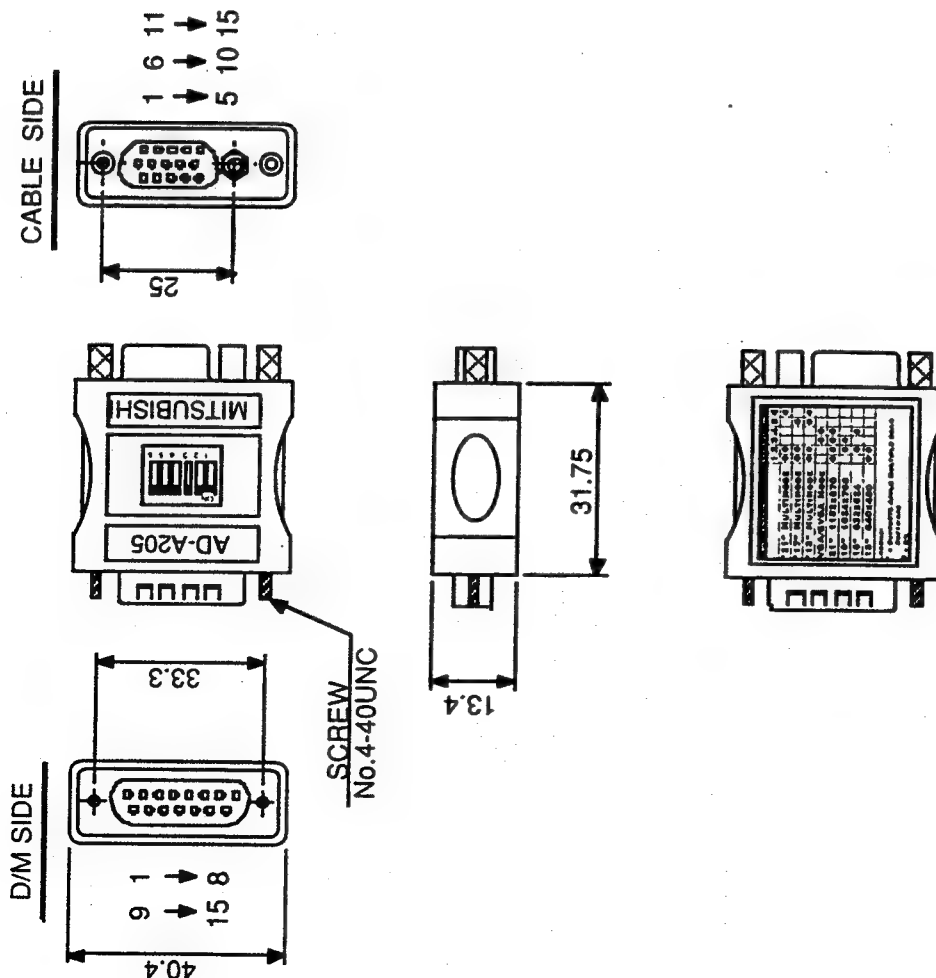


Fig. 10 ADAPTER (AD-A205)



2. User's guide

CAUTION

The power cord provided with this monitor is designed for safety and must be used with a properly grounded outlet to avoid possible electrical shock.

Do not remove the monitor cabinet as this can expose you to very high voltages and other hazards.

Trademark

IBM, PC, PS/2, PS/V, Personal System/2 are registered trademarks of International Business Machines Corp.

Apple Macintosh is a registered trademark of Apple Computer, Inc.

Quadra is a trademark of Apple Computer, Inc.

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RADIO INTERFERENCE REGULATIONS STATEMENT FOR U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

THIS PRODUCT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS WITH SIGNAL CABLE SC-B102. USE IT TO REDUCE THE POSSIBILITY OF CAUSING INTERFERENCE TO RADIO, TELEVISION, AND OTHER ELECTRIC DEVICES.

NO USER SERVICEABLE PARTS INSIDE. DO NOT ATTEMPT TO MODIFY THIS EQUIPMENT. IF MODIFIED, YOUR AUTHORITY TO OPERATE THIS EQUIPMENT MIGHT BE VOIDED BY FCC.

WARNING!

This product is not designed for use in life support devices and Mitsubishi Electric corporation makes no representations to the contrary. Life support devices are those devices which are used to measure, diagnose, or evaluate the tissue, systems or functions of the human body; or other devices employed to support or sustain life or good health.

As an ENERGY STAR Partner, Mitsubishi Electric Corporation has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

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1

INTRODUCTION

Congratulations on your purchase of the Diamond Pro 91TXM high resolution color monitor. Mitsubishi designed this monitor to provide you with years of reliable trouble-free operation. Once again, thank you for selecting our product and welcome to Mitsubishi!

This guide tells you how to connect, adjust and care for your Diamond Pro 91TXM monitor. This guide also provides technical specifications and instructions for troubleshooting any basic problems you may experience with your monitor.

1.1 Features

The Diamond Pro 91TXM is a 21" (19.7" Diagonal Viewable Image) intelligent, microprocessor-based monitor compatible with most analog RGB (Red, Green, Blue) display standards, including PS/V®, PS/2®, Apple® Macintosh® Centris, Quadra, and Macintosh II family signals. It provides crisp text and vivid color graphics with VGA, SVGA, XGA (non-interlaced), and most Macintosh compatible color video cards.

- The monitor's wide auto-scanning compatibility range makes it possible to upgrade video cards or software without purchasing a new monitor.
- Digitally controlled auto-scanning is done using an internal microprocessor, for horizontal scan frequencies between 30kHz and 95kHz, and vertical scan frequencies between 50Hz and 152Hz. The microprocessor-based intelligence allows the monitor to operate in each frequency mode with the precision of a fixed frequency monitor.
- The monitor contains resident memory for pre-programmed screen display standards and is also capable of storing additional user adjustment parameters.
- The monitor is capable of producing a maximum addressable resolution format of 1600 x 1200 lines typically. This display is well suited for windowing environments.
- Because of the analog signal inputs, the monitor can display an unlimited palette of colors that can be manually adjusted to suit your specific needs.
- The monitor has a power management function accorded to VESA-DPMS-standard. To save energy, the monitor must be connected to a system compliant with the VESA DPMS-standard. (Refer to your computer and/or video card instructions for proper operation.)
- The monitor has a serial interface which permits software control of the monitor's functions when using the optional serial interface kit.
- To ensure ease of installation and ongoing use, the monitor features Moire Clear Function and On-Screen Display (OSD) of all monitor set-up and adjustment functions.
- For use in a variety of applications, the monitor complies with UL 1950 and CSA C22.2 No.950 for safety, FCC Class-B for EMI, MPR-II and ISO 9241-3 for ergonomics. The monitor also complies with TCO'92 guideline for environmentally safe.
- Digital Chassis design for lighter, more compact enclosure and increased screen performance.
- DIAMONDTRON CRT with 0.28mm pitch aperture-grille mask, advanced-focus P-NX DBF (Dynamic Beam Forming) electron gun and high contrast optical-quality coating.
- The monitor complies with Video Electronics Standards Association (VESA™) DDC1/2B(EDID) specification. If your computer provides DDC1/2B(EDID) function, setup will be done automatically.

1.2 Internal Preset Memory Capability

To minimize adjustment needs, the factory has preset popular display standards into the monitor, as shown in Table 1. If any of these display standards are detected, the picture size and centering are automatically adjusted. All of the factory presets may be overwritten by adjusting the user controls. The monitor is capable of automatically storing up to twelve additional display standards. The new display information must differ from any of the existing display standards by at least 1kHz for the horizontal scan frequency or 5Hz for the vertical scan frequency or the sync signal polarities must be different.

Table 1. Memory Buffer Factory Presets

MEMORY BUFFER	PRESET TIMING	Fh (kHz)	Fv (Hz)	Polarity	
				H	V
1	1600 x 1200 N.I.	93.7	75	+	+
2	1280 x 1024 N.I.	79.9	75	+	+
3	1152 x 870 N.I.	68.7	75	-	-
4	1024 x 768 N.I.	60.0	75	+	+
5	800 x 600 N.I.	46.8	75	+	+
6	640 x 480 N.I.	37.5	75	-	-

1.3 Power Management Function

The monitor has the power management function which reduces the power consumption of the monitor when not in use. There are two reduced power level modes.

■ Stand-by mode

When the horizontal sync signal is off, the monitor is switched to a stand-by mode. When the monitor is in stand-by mode, the screen is off and the power indicator will blink for 0.5 second intervals.

After the horizontal sync signal is restored, picture will be displayed immediately.

■ Suspend mode

When the vertical sync signal is off, after about 10 seconds the monitor is switched to a suspend mode which reduces the monitor power consumption to less than 15W.

When the monitor is in suspend mode, the screen is off and the power indicator will blink for two second intervals. After the vertical sync signal is restored, picture will be displayed within a few seconds.

■ Power-off mode

When the horizontal sync signal and vertical sync signal are off, after about 10 seconds the monitor is switched to a power-off mode, which reduces the monitor power consumption to less than the power consumed at suspend mode above.

When the monitor is in power-off mode, the screen is off, and the power indicator will blink for 3 seconds of On-time and 1 second Off-time.

After both the sync signals are restored, picture will be displayed within several seconds.

1.4 DDC

The monitor includes the DDC1 and DDC2B feature. DDC (Display Data Channel) is a communication channel over which the monitor automatically informs the host system about its capabilities (e.g. each supported resolution with its corresponding timing).

DDC is routed through previously unused pins of the 15-pin VGA connector.

The system will perform "Plug and Play" feature if both, monitor and host, implement the DDC protocol.

1.5 Location Considerations

When setting up and using the monitor, keep the following in mind:

- * For optimum viewing, avoid placing the monitor against a bright background or where sunlight or other light sources may reflect on the display area of the monitor; place the monitor just below eye level.
- * Place the monitor away from strong magnetic or electromagnetic fields, such as high capacity transformers, electric motors, large current power lines, steel pillars, etc.... Magnetism can cause distortion in the picture and/or color purity.
- * Avoid covering the slots or openings of the monitor. Allow adequate ventilation around the monitor so the heat from the monitor can properly dissipate. Avoid putting the monitor into any enclosure that does not have adequate ventilation.
- * Avoid exposing the monitor to rain, excessive moisture, or dust, as this can cause a fire or shock hazard.
- * Avoid placing the monitor, or any other heavy object, on the power cord. Damage to the power cord can cause a fire or electrical shock.
- * When transporting the monitor, handle it with care.

CAUTION

Keep your fingers away from the pivot area of the tilt/swivel base.

1.6 Cleaning Your Monitor

When cleaning the monitor, please follow these guidelines:

- * Always unplug the monitor before cleaning.
- * Wipe the screen and cabinet front and sides with a soft cloth.
- * If the screen requires more than dusting, apply a household window cleaner to a soft cloth to clean the monitor screen.

CAUTION

Do not use benzene, thinner or any volatile substances to clean the unit as the finish may be permanently marked. Never leave the monitor in contact with rubber or vinyl for an extended time period.

1.7 Unpacking

After you unpack the box you should have all of the items indicated in Figure 1. Save the box and packing materials in case you ship or transport the monitor. Complete and mail in warranty cards.

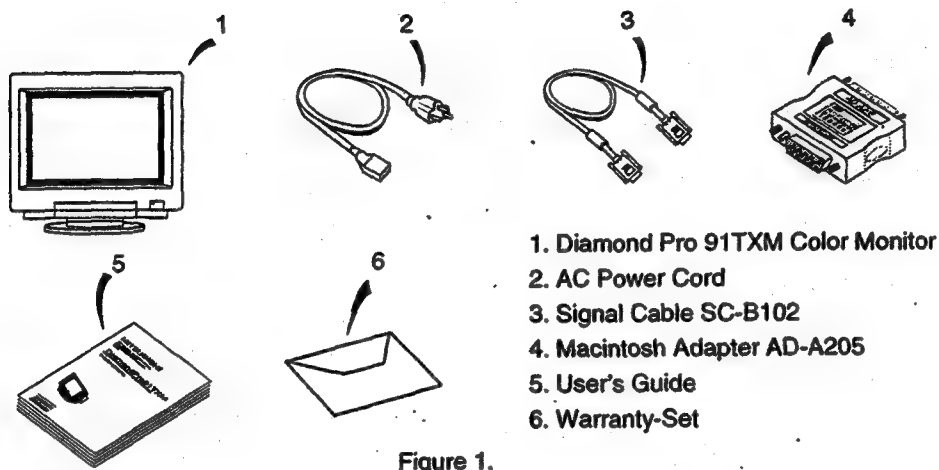


Figure 1.

1.8 Tilt/Swivel Base

The monitor comes with a tilt/swivel base. This enables you to position the monitor to the best angle and tilt for maximum viewing comfort.

Screen Position Adjustment

Adjust the tilt and rotation of the monitor by placing your hands at opposite sides of the case, as shown in Figure 2. You can adjust the monitor 45 degrees right or left, 10 degrees up or 5 degrees down, as shown below.

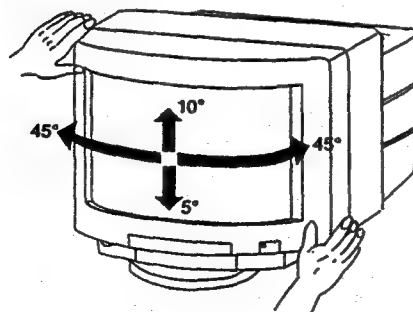
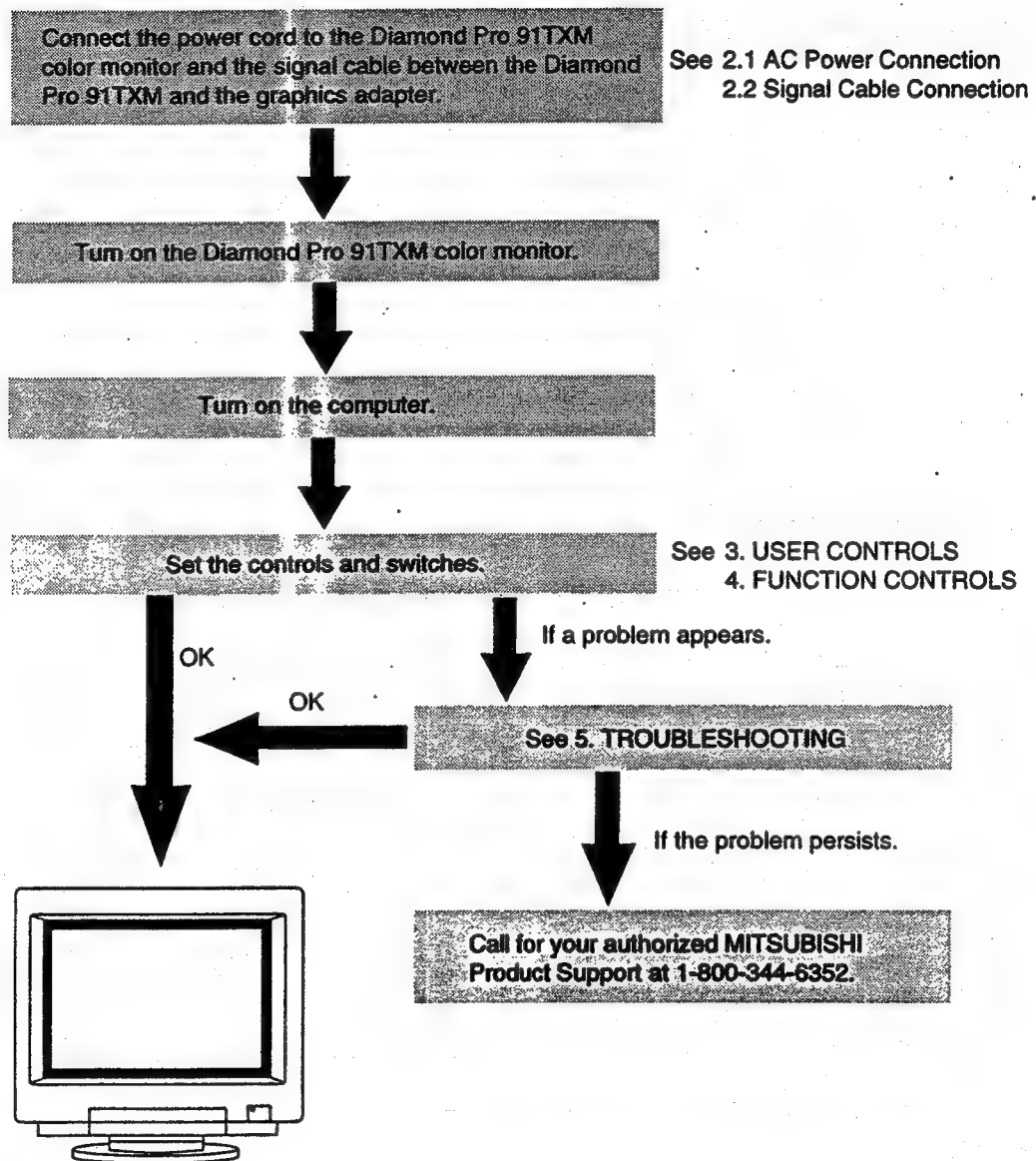


Figure 2.

1.9 Quick Operation Chart

To summarize the steps in connecting your computer and adapter with Diamond Pro 91TXM color monitor and setting the necessary controls and switches, refer to the chart below.



2

CONNECTING THE MONITOR

On the back of the monitor are four plug-in connections: one for the AC power cord, DB9-15P connector, BNC connector for video and a DIN-8P connector for the optional serial interface kit.

2.1 AC Power Connection

One end of the AC power cord is connected into the AC power connector on the back of the monitor. The other end is plugged into a properly grounded three-prong AC outlet. The monitor's auto-sensing power supply can automatically detect 100-120V AC or 200-240V AC and 50 or 60Hz.

2.2 Signal Cable Connection

The attached video signal cable provides a DB9-15P connector for the VGA compatible analog RGB outputs on your computer. The RGB signal may be derived from an IBM® PS/2, or compatible Apple Macintosh built-in video. Most third party color cards can also be interfaced using the free Mitsubishi Apple adaptor available from your dealer.

2.2.1 Connecting to Any IBM VGA Compatible System

Figure 3 shows the SC-B102 cable connection to the Video Graphics Array (VGA) port in an IBM Personal System/2® Model 50, 60, 70 and 80, or any VGA compatible system.

1. Power off, the monitor and the computer.
2. Connect the one end of the SC-B102 cable to the 15-pin connector on the VGA controller card.
3. Connect the other end of the SC-B102 cable to the DB9-15P receptacle on the back of the monitor.
4. Power on the computer, then the monitor.
5. After using the system, power off the monitor, then the computer.

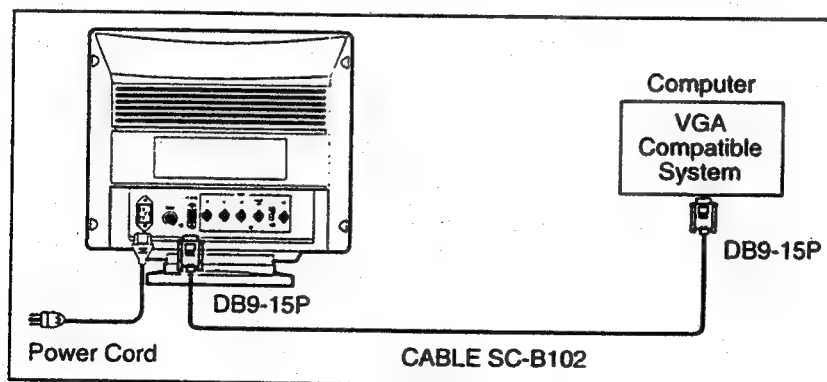


Figure 3.

CAUTION

The socket-outlet shall be installed near the equipment and shall be easily accessible. During servicing, disconnect the plug from the socket-outlet.

Même si le moniteur est mis hors tension il reste toujours alimenté. La prise secteur devrait ainsi être facilement accessible en cas d'urgence.

2.2.2 Connecting to An Apple Macintosh Centris, Quadra, and Apple Macintosh II Family

Figure 4 shows the SC-B102 cable and AD-A205 Adapter to the video port in an Apple Macintosh.

1. Power off, both the monitor and the computer.
2. Set the DIP switches of Macintosh Adapter according to the setting chart.
(See 7.4 Macintosh Adapter AD-A205 settings)
3. Connect the 15-pin (DB-15P) end of the AD-A205 Adapter to the straight 15-pin connector on the Macintosh video port on the CPU or on the video board.
4. Connect the sub-miniature 15-pin (DB9-15P) end of AD-A205 Adapter to the SC-B102 cable.
5. Connect the other end of the SC-B102 cable to the DB9-15P receptacle on the back of the monitor.
6. Power on the Macintosh, then the monitor.
7. After using the system, power off the monitor, then the Macintosh.

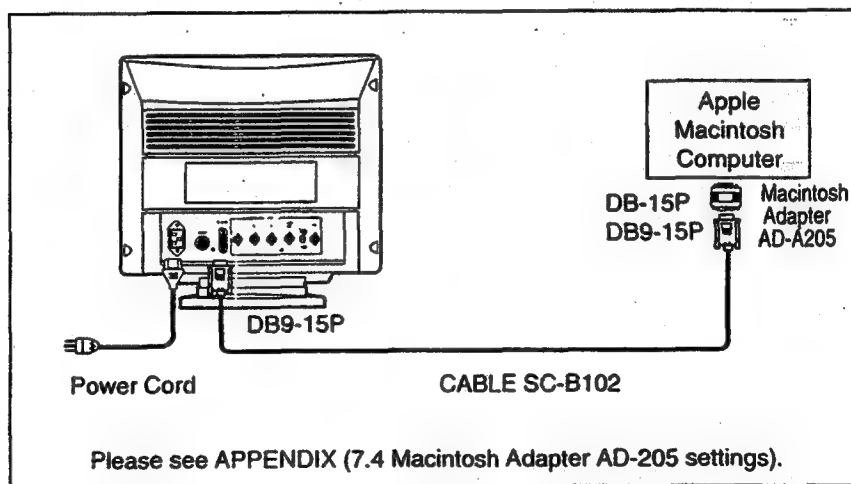


Figure 4.

2.2.3 Connecting to a Unix Workstation & Third Party Graphics Card

Figure 5 shows the SC-B102 or "75 Ω " coaxial cable (not supplied) connection to the graphics video card (PC-CAD and workstation).

1. Power off, both the monitor and the computer.
2. Connect one end of the SC-B102 cable or the "75 Ω " coaxial cable to the output connector on the CPU, or on the video board.
3. Connect the other end of the SC-B102 cable or the "75 Ω " coaxial cable to the DB9-15P receptacle or the BNC receptacles on the back of the monitor.
4. Power on the computer, then the monitor.
5. After using the system, power off the monitor, then the computer.

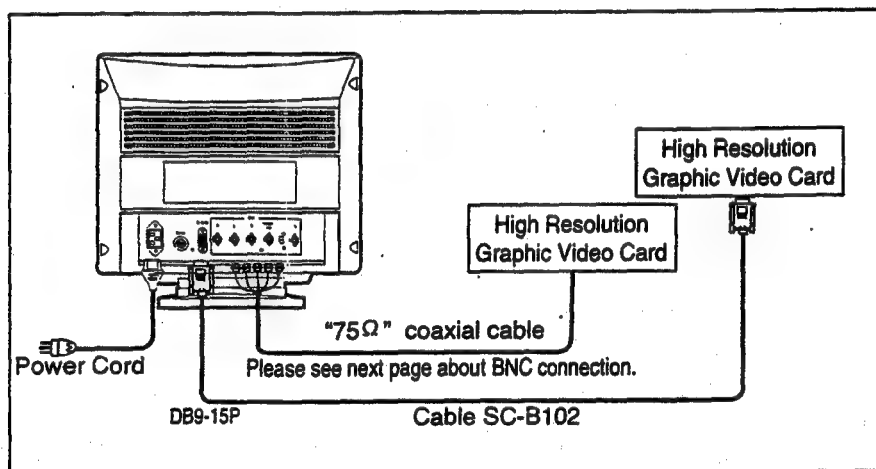
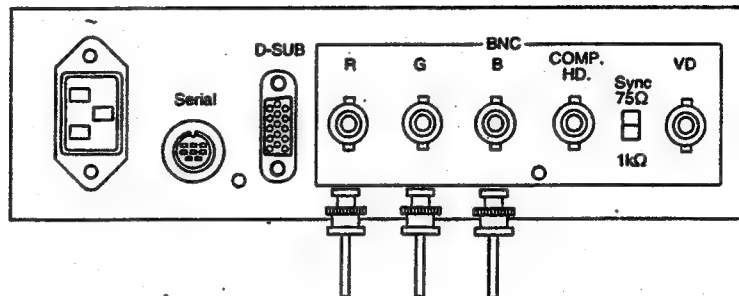


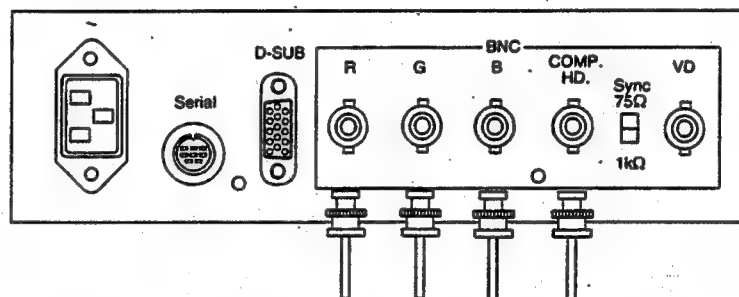
Figure 5.

BNC CONNECTION

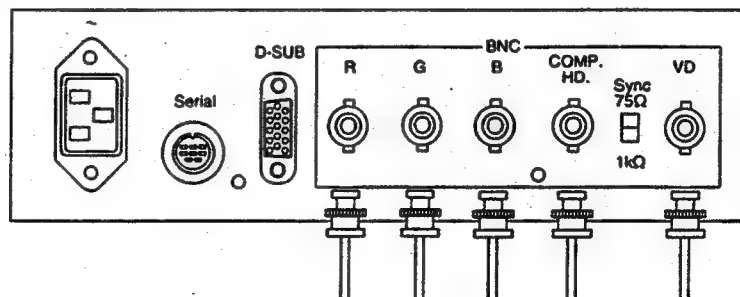
- (1) IN CASE OF A COMPOSITE SYNC ON GREEN VIDEO SIGNAL (SYNC ON GREEN):
Connect the R, G and B video signals to the BNC receptacles on the back of the monitor.



- (2) IN CASE OF EXTERNAL COMPOSITE SYNC SIGNAL:
Connect the R, G and B video signals and the Composite sync signal to BNC receptacles on rear panel, respectively.



- (3) IN CASE OF SEPARATE HORIZONTAL AND VERTICAL SYNC SIGNALS:
Connect the R, G and B video signals and the horizontal and vertical sync signals to the BNC receptacles on the rear panel.



NOTE: Set the "75Ω"/"1kΩ" TERMINATION SWITCH to the "1kΩ" position when using a TTL sync signal, otherwise set to the "75Ω" position.

3

USER CONTROLS

See Figure 6 and 7 for the location of the following user controls and indicators. Each control is identified by number and is described individually on page 15.

FRONT

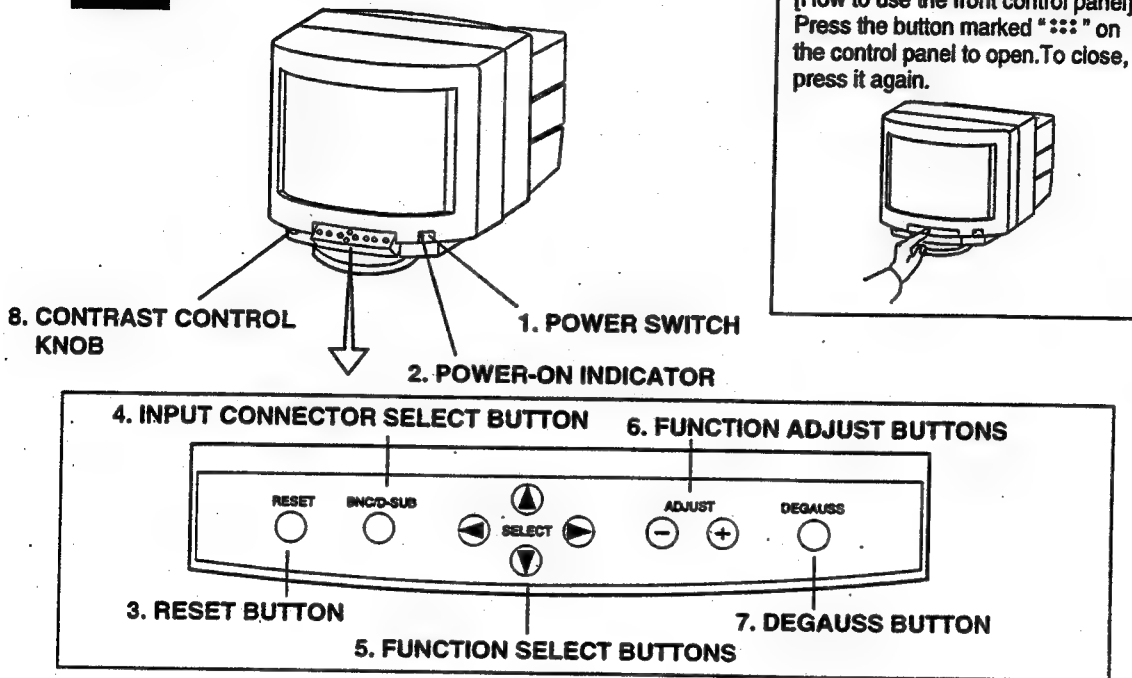


Figure 6

1. **POWER SWITCH:** A push-on push-off switch for AC power.
2. **POWER-ON INDICATOR:** This indicator illuminates when AC power is on.
3. **RESET BUTTON:** Push the RESET button to restore a factory preset that has been modified by the user. This button performs two functions under different conditions.
 1. When adjusting H-SIZE, H-PHASE, V-SIZE, V-PHASE, PCC-AMP or PCC-PHASE controls, pressing the RESET button will restore the factory adjusted screen geometry and size settings, if the current video signal timing corresponds to a factory preset timing.
 2. When adjusting color gains, pressing the RESET button will restore the factory adjusted color gain for the currently selected color memory number.
4. **INPUT CONNECTOR SELECT BUTTON:** Push the BNC/D-SUB button to select the input signal BNC or D-SUB. By the OSD function, input signal could select, either. (See 4.1 (3) Connector select)
5. **FUNCTION SELECT BUTTONS:** Push the adjust buttons to choose one of the functions that is superimposed on the display screen.
6. **FUNCTION ADJUST BUTTONS:** Push the adjust buttons to adjust the image on the screen that is selected via the function select buttons.
7. **DEGAUSS BUTTON:** A push type button that is used to eliminate possible color shading or impurity.

REAR

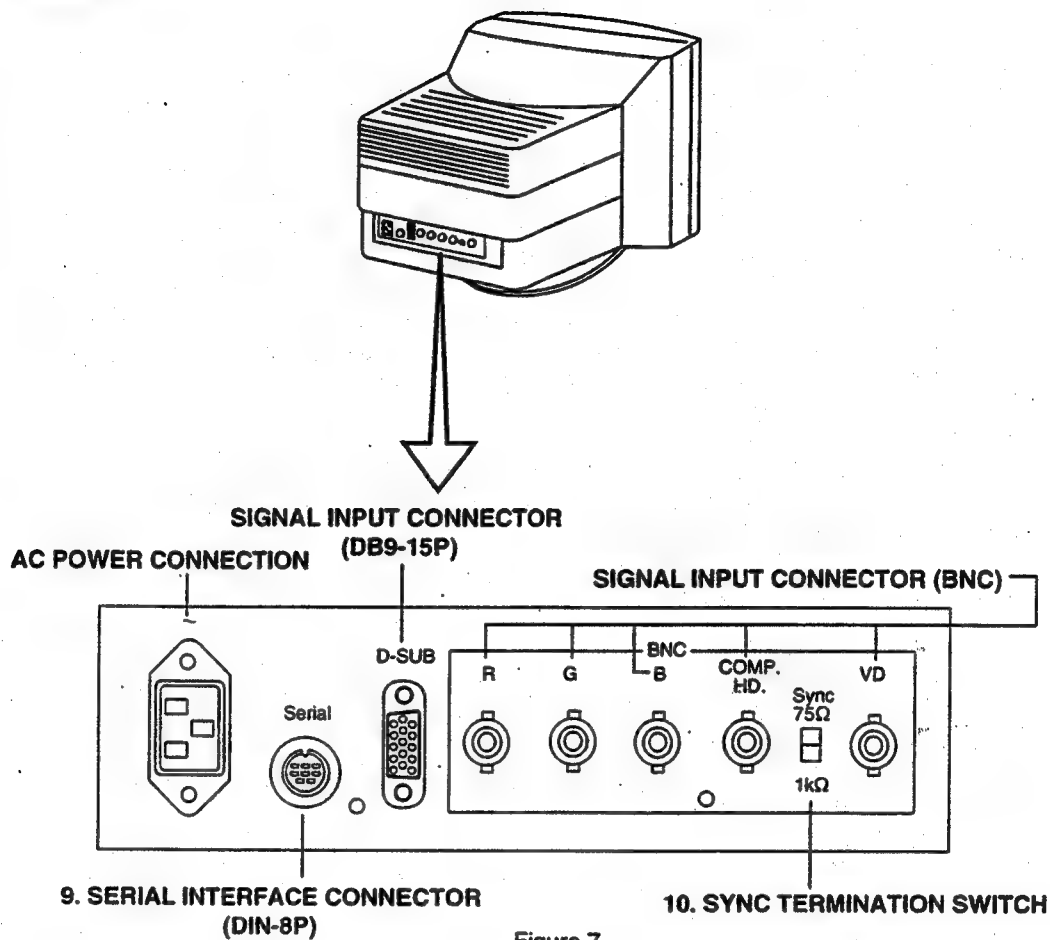


Figure 7

8. **CONTRAST CONTROL KNOB**: Turn the control clockwise to increase contrast. Contrast may also be adjusted from the OSD menu using plus and minus buttons.
9. **SERIAL INTERFACE CONNECTOR**: The monitor has a DIN-8P connector for connecting to the computer when using the optional serial interface kit. For information about connecting the serial interface, please refer to the instructions included with the serial interface kit.

For further information about the optional serial interface kit, please contact your authorized MITSUBISHI dealer.
10. **SYNC TERMINATION SWITCH**: Set the $75\Omega/1k\Omega$ sync termination switch to the $1k\Omega$ position when using a TTL sync signal, otherwise set to 75Ω position. (This switch is effective for BNC INPUT. For the DB9-15P input, Sync termination is $1k\Omega$ fix.)

4

OSD(On Screen Display) FUNCTIONS

NORMAL-MODE

- (1) **CONTRAST:** Adjusts to the desired contrast level.
- (2) **BRIGHTNESS:** Adjusts to the black level of the screen.
- (3) **CONNECTOR-SELECT:** Selects the video input connection to be used.
- (4) **H-SIZE (Horizontal Size):** Controls the horizontal size of the image on the screen.
- (5) **H-PHASE (Horizontal Position):**
Controls the horizontal position of the image on the screen.
- (6) **V-SIZE (Vertical Size):** Controls the vertical size of the image on the screen.
- (7) **V-POSITION (Vertical Position):** Controls the vertical position of the image on the screen.
- (8) **PCC-AMP (Pincushion or Bow Amplitude):**
Straightens the left and right sides of the screen image.
- (9) **PCC-PHASE:** Adjusts the parallelism of the left and right sides of the screen image.
- (10) **PIN-BALANCE:** Adjusts the curvature of the left and right sides of the screen image.
- (11) **KEY-BALANCE:** Adjusts the vertical slant or tilt of the screen image.
- (12) **ROTATION:** Adjusts the rotation or twist of the picture.
- (13) **H-STATIC:** Adjusts the horizontal alignment of the red, green and blue beams.
- (14) **COLOR 1-RED, COLOR 2-RED, COLOR 3-RED:**
Provides the red-color balances for the display.
- (15) **COLOR 1-GREEN, COLOR 2-GREEN, COLOR 3-GREEN:**
Provides the green-color balances for the display.
- (16) **COLOR 1-BLUE, COLOR 2-BLUE, COLOR 3-BLUE:**
Provides the blue-color balances for the display.
- (17) **POWER-SAVE (ON/OFF):**
When adjusting ON, reduces the power consumption of the monitor when not in use.
- (18) **MOIRE-CLEAR (ON/OFF):**
When adjusting ON, the moire level on the screen can be decreased by the MOIRE-CLEAR LEVEL.
- (19) **MOIRE-CLEAR LEVEL:**
When MOIRE-CLEAR is on, decreases the moire level on the screen.

ENHANCED-MODE

- (20) **H-POS (Horizontal Position):** Adjusts the horizontal position of the screen.
- (21) **CENTER-PCC (Center Pincushion or Bow Amplitude):**
Adjusts the pincushioning near the vertical center of the screen.
- (22) **CORNER-PCC (Top of Pincushion or Bow Amplitude):**
Adjusts the pincushioning at the top corners of the screen.
- (23) **BOTTOM-PCC (Bottom of Pincushion or Bow Amplitude):**
Adjusts the pincushioning at the bottom corners of the screen.
- (24) **TOP-BALANCE:** Move the top of the screen image to the right and left.
- (25) **PCC-SINE:** Move the expanded part from top to bottom and bottom to top.
- (26) **CLAMP PULSE POSITION:**
Use this function to eliminate excessive green or white background that may occur when both Sync-On-Green and external sync signals are applied to the monitor.
- (27) **PURITY:** Adjusts the purity of the screen.
- (28) **VIDEO LEVEL:** Selects video levels 1.0V or 0.7V.

4.1 Normal Mode Operation

Press any select button and control indicators will be superimposed on the display screen.

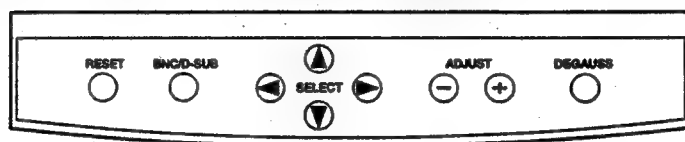
Refer to Figure 6 for the location of the monitor function (◀ ▶ ▲ ▼ + -) controls. Press the select buttons to choose one of the following controls.

When the indicator of a function symbol comes on the screen and changes to blue, that control is active and can be adjusted by the adjust buttons. The monitor automatically memorizes all adjustments.

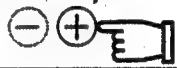
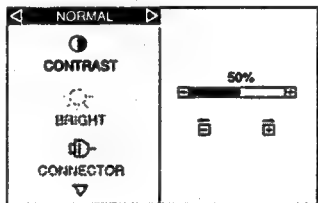
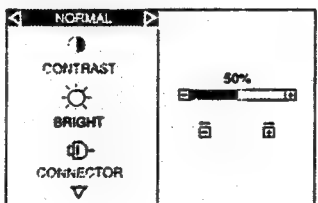
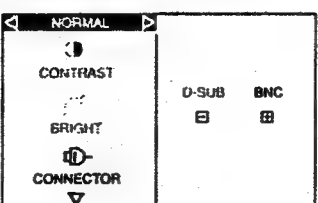
If you don't touch the control switches for ten seconds, the OSD screen will disappear.

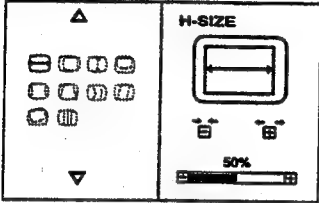
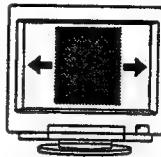
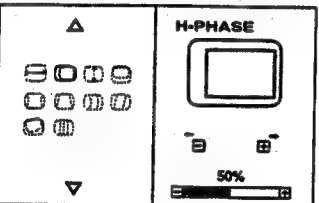
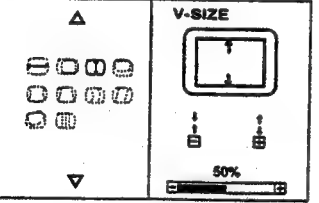
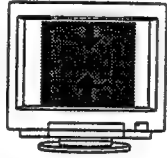
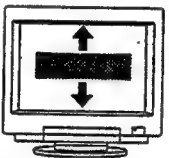
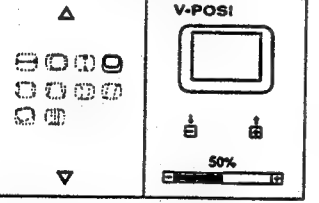
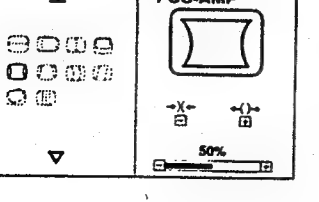
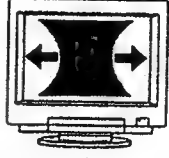
For faster OSD blanking, push ▲ ▼ buttons simultaneously.

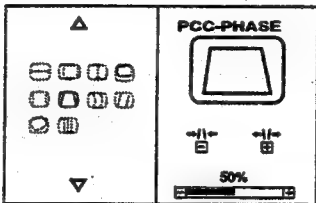
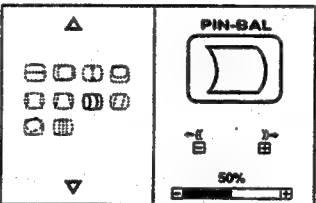
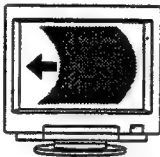
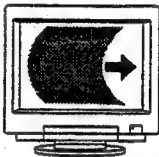
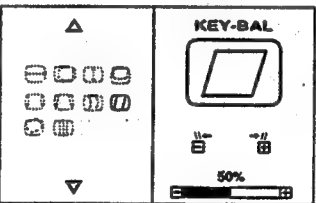
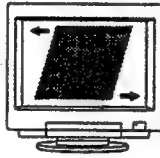
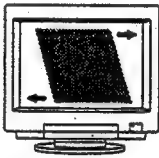
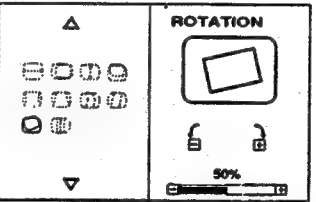
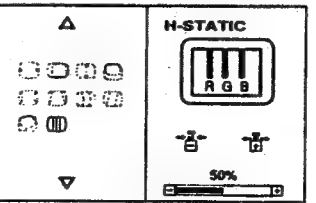
Front Control Panel



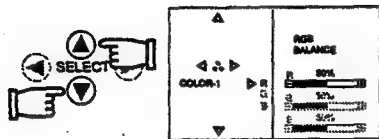
- ▲ Button: select up
- ▼ Button: select down
- ▶ Button: select right
- ◀ Button: select left

FUNCTION AND OSD	Press the Minus Adjust Button: 	Press the Plus Adjust Button: 
(1) CONTRAST 	 To decrease the contrast. Press plus and minus buttons together, to restore to factory preset level.	 To increase the contrast.
(2) BRIGHTNESS 	 To decrease the brightness. Press plus and minus buttons together, to restore to factory preset level.	 To increase the brightness.
(3) CONNECTOR-SELECT 	Press the minus adjust button to select the D-SUB input connector. If the selected connector has no signal, the monitor will select another one automatically.	Press the plus adjust button to select the BNC input connector.

FUNCTION AND OSD	Press the Minus Adjust Button: 	Press the Plus Adjust Button: 
(4) H-SIZE (Horizontal Size) 	 To narrow the width of the image on the screen.	 To expand the width of the image on the screen.
(5) H-PHASE(Horizontal Position) 	 To move the image to the left.	 To move the image to the right.
(6) V-SIZE(Vertical Size) 	 To narrow the height of the image on the screen.	 To expand the height of the image on the screen.
(7) V-POSITION (Vertical Position) 	 To move the image down.	 To move the image up.
(8) PCC-AMP (Pincushion or Bow Amplitude) 	 To collapse the center of the image.	 To expand the center of the image.

FUNCTION AND OSD	Press the Minus Adjust Button: 	Press the Plus Adjust Button: 
(9) PCC-PHASE 	 To decrease the width at the top of the screen image and to increase the width at the bottom.	 To increase the width at the top of the screen image and to decrease the width at the bottom.
(10) PIN-BALANCE 	 To move the top and bottom of the screen image to the right.	 To move the top and bottom of the screen image to the left.
(11) KEY-BALANCE 	 To make the screen slant to the left.	 To make the screen slant to the right.
(12) ROTATION 	 To rotate to the left. Press plus and minus buttons together, to restore to factory preset level.	 To rotate to the right. Press plus and minus buttons together, to restore to factory preset level.
(13) H-STATIC 	To move the red to the right and the blue to the left. Press plus and minus buttons together, to restore to factory preset level.	To move the red to the left and the blue to the right. Press plus and minus buttons together, to restore to factory preset level.

(14) COLOR 1-RED, COLOR 2-RED, COLOR 3-RED



Press the select buttons (up or down) to choose COLOR-1 R.



50%

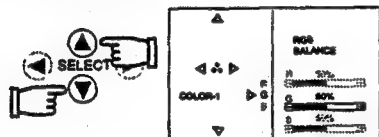


Press the minus adjust button to decrease the red color level.

Press the select buttons (right or left) to choose COLOR-1, COLOR-2, and COLOR-3.

Press the plus adjust button to increase red color level.

(15) COLOR 1-GREEN, COLOR 2-GREEN, COLOR 3-GREEN



Press the select buttons (up or down) to choose COLOR-1 G.



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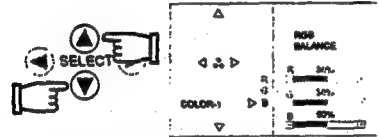


Press the minus adjust button to decrease the green color level.

Press the select buttons (right or left) to choose COLOR-1, COLOR-2, and COLOR-3.

Press the plus adjust button to increase the green color level.

(16) COLOR 1-BLUE, COLOR 2-BLUE, COLOR 3-BLUE



Press the select buttons (up or down) to choose COLOR-1 B.



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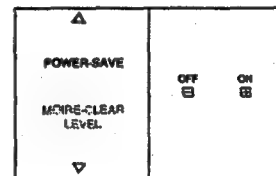
Press the minus adjust button to decrease the blue color level.

Press the select buttons (right or left) to choose COLOR-1, COLOR-2, and COLOR-3.

Press the plus adjust button to increase the blue color level.

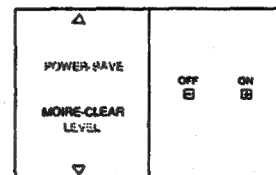
(17) POWER-SAVE (ON/OFF)

Press the up or down SELECT buttons to choose POWER-SAVE.
Press the minus adjust button to select the constant power-on mode.
Press the plus adjust button to select the power-save mode.



(18) MOIRE-CLEAR (ON/OFF)

Press the up or down SELECT buttons to choose MOIRE-CLEAR.
Press the minus adjust button to select the moire-clear mode off.
Press the plus adjust button to select the moire-clear mode on.

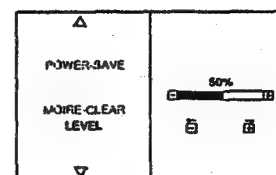


(19) MOIRE-CLEAR LEVEL

Press the up or down SELECT buttons to choose MOIRE-CLEAR LEVEL.
Press the minus adjust button to decrease the level of the moire-clear wave.

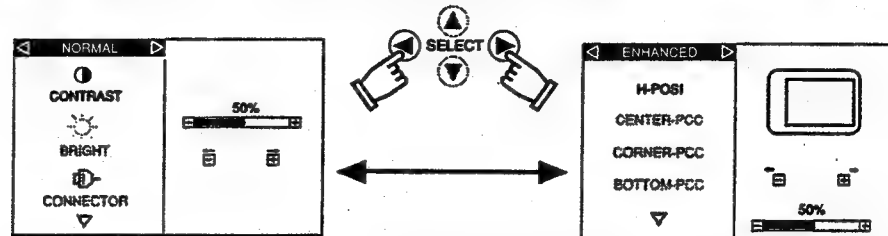
Press the plus adjust button to increase the level of the moire-clear wave.

* The over-adjustment might degrade picture quality.

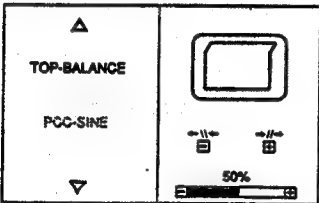
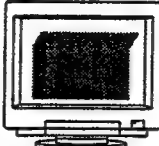
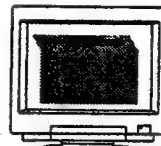
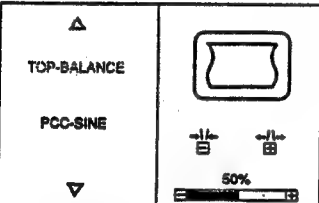
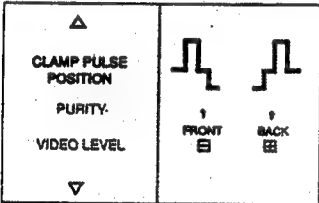
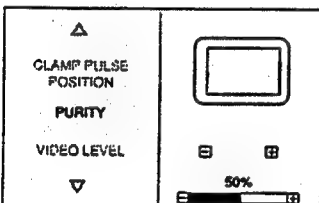
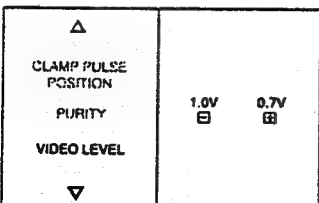


4.2 Enhanced Mode Operation

Press the button (up or down) to select the CONTRAST, and press the button (right or left) to select ENHANCED MODE. In the ENHANCED MODE, you can adjust the following controls.



FUNCTION AND OSD	Press the Minus Adjust Button: 	Press the Plus Adjust Button:
(20) H-POSI (Horizontal Position) 	 To move the screen to the left.	 To move the screen to the right.
(21) CENTER-PCC (Center Pincushion or Bow Amplitude) 	 To narrow the center of the image horizontally.	 To expand the center of the image horizontally.
(22) CORNER-PCC (Corner Pincushion or Bow Amplitude) 	 To expand the width of the screen image near the corners.	 To narrow the width of the screen image near the corners.
(23) BOTTOM-PCC (Bottom of Corner Pincushion or Bow Amplitude) 	 To expand the width of the screen image near the corners of bottom.	 To narrow the width of the screen image near the corners of bottom.

FUNCTION AND OSD	Press the Minus Adjust Button: 	Press the Plus Adjust Button: 
(24) TOP-BALANCE 	 To move the top of the image to the left.	 To move the top of the image to the right.
(25) PCC-SINE 	 To move expanded part from top to bottom.	 To move expanded part from bottom to top.
(26) CLAMP PULSE POSITION 	To clamp the video signal at the front of the H-Sync pulse.	To clamp the video signal at the back of the H-Sync pulse.
(27) PURITY 	Input Full White signal to monitor. Press the plus or minus adjust buttons, to get pure white at the corner of picture. Press plus and minus buttons together to restore to factory preset level.	
(28) VIDEO LEVEL 	To select 1.0V of video input.	To select 0.7V of video input.

NOTE

When the monitor has no sync signal or incorrect connection and the signal frequency is out of range, the following CAUTION comes on the screen. Check input signal, signal cable connection and signal frequency.

1. POWER SAVE IS OFF

When POWER SAVE is OFF and there is no sync signal, the following screen is displayed.

ATTENTION NO SIGNAL H ▷ OFF V ▷ OFF PLEASE CHECK INPUT SIGNAL OR CONNECTION	POWER-SAVE OFF ON ⊞ ⊞
--	--

2. POWER SAVE IS ON

(1) When POWER SAVE is ON and there is no sync signal, the following screen is displayed for 5 seconds.

(2) Before 2 seconds POWER SAVE function works, the following screen is displayed.

ATTENTION NO SIGNAL H ▷ OFF V ▷ OFF	POWER-SAVE OFF ON ⊞ ⊞
--	--

POWER-SAVE

3. POWER SAVE IS ON OR OFF

When signal frequency is out of range, the following screen is displayed.

ATTENTION SIGNAL FREQUENCY IS OUT OF RANGE PLEASE CHANGE SIGNAL TIMING

5

TROUBLESHOOTING

Before calling your Authorized Product Support, please check that the items below are properly connected or set.

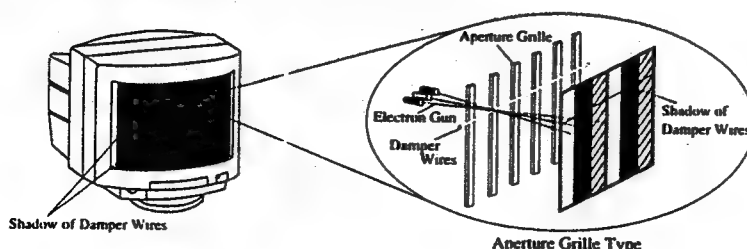
In case of using a non-standard signal, please check the pin assignments and the signal timing of your computer with the specification outlined in SPECIFICATION 6 and APPENDIX 7.

PROBLEM		ITEMS TO CHECK	LOCATION
No picture	LED On	• Contrast and brightness controls.	• Front (Adjust to the maximum brightness or push the reset button)
	LED Off	• Power switch. • AC power cord disconnected.	• Front • Rear
	LED Blinking	• Signal cable disconnected. • BNC cables are misconnected or the green cable is disconnected. • Computer power switch. • Power management function is active.	• Rear • Check the graphics adapter and cables • Computer • Check the power management function. (see P22)
Abnormal picture	Un-stable picture	• BNC cables are misconnected. • Input signal frequency range is disagreement. CGA MODE is not available. MDA MODE is not available. EGA MODE is not available.	• Rear • Check the specification of graphics adapter and monitor
	No green color with BNC	• BNC cables are misconnected. (Green and composite sync. connection is reversed)	• Rear
	Display is missing, center shifts, or too small or too large of a display size	• Depress the MEMORY RESET SWITCH for a standard signal. • Adjust H.SIZE, V.SIZE, H.POSITION, and V.POSITION with non-standard signals. • Monitor may not be able to get full-screen image depend on signal. In this case, please select other resolution, or other vertical refresh timing. • Make sure you wait a few seconds after adjusting the size of the image before changing or disconnecting the signal or powering OFF the monitor.	• Front (OSD) • Front (OSD)
	Display is not stable	• BNC cables are misconnected.	• Rear
	Display is dark or too bright	• Input video signal level select is not at the appropriate position for your graphics adapter output.(0.7V or 1.0Vp-p)	• Front (OSD)

NOTE:

Two fine horizontal lines may be visible on the screen. This is not a fault or defect of the monitor and is normal for all aperture grille type displays.

The fine lines are the shadows of *Damper Wires* which are used to reduce the susceptibility of the DIAMONDTRON CRT's aperture grille to shock or vibration.



Aperture Grille Type

6

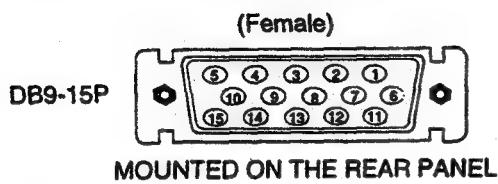
SPECIFICATIONS

CRT	Size, Mask type	21"(19.7"Diagonal Viewable Image),aperture grille
	Gun	In-line
	Deflection angle	90°
	Phosphors	Red, Green, Blue EBU (medium short persistence)
	Aperture grille pitch	0.28mm
	Face Plate	Anti-glare, Anti-reflection and Anti-static coating
	Focusing method	Dynamic Beam Forming (DBF)
INPUT SIGNAL	Video	0.7 and 1.0Vp-p analog RGB
	Sync	Sync. on Green or separated H, V sync. or Composite sync
INTERFACE	Input Connector	5BNC, DB9-15P, DIN-8P(Serial Control)
	Input Impedance	75Ω (video)
SCANNING FREQUENCY	Horizontal	30 - 95kHz
	Vertical	50 - 152Hz
RESOLUTION (HxV)	1600dots x 1200lines Non-Interlaced maximum addressable resolution format at 75Hz	
WARM-UP TIME	30 minutes to reach optimum performance level	
BRIGHTNESS	100cd/cm ² , standard full white video signal	
VIDEO AMPLIFIER	50Hz - 180MHz (typ.)	
BLANKING TIME	Horizontal	< 2.5 μsec (typ.)
	Vertical	< 500 μsec (typ.)
DISPLAY SIZE	390mm x 290mm (Max.) ratio 4:3, e.g. 1024dots x 768lines	
COLOR	1= 9300K, 2 = 6500K, 3 = 5000K	
POWER SOURCE	AC100-120V/220-240V±10% 50/60Hz 150W (typ.)	
OPERATING ENVIRONMENT	Temperature	5 - 35°C
	Humidity	10 - 90%RH (without condensation)
CABINET	(W)19.7inch x (H)19.3inch x (D)19.2inch (W)500mm x (H)490mm x (D)488 mm	
WEIGHT	35kg (77lbs.)	
TILT/SWIVEL BASE	Tilt Angle	-5° - +10°
	Swivel Angle	±45°
REGULATIONS	Safety	UL1950 (UL) CSA C22.2 No.950 (C-UL)
	EMI	FCC Class-B DOC Class-B
	X-Ray	DHHS HWC
	Other	MPR-II ISO 9241-3 (TÜV-ERGO) TCO '92 International Energy Star Program

7

APPENDIX

7.1 Monitor Signal Input Connector (DB9-15P)

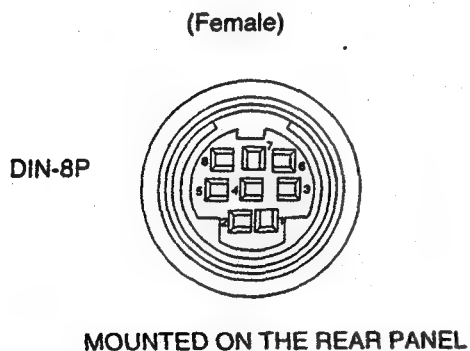


PIN ASSIGNMENTS

Pin No.	Signal
1	RED VIDEO
2	GREEN VIDEO or COMPOSITE SYNC with GREEN VIDEO
3	BLUE VIDEO
4	GROUND
5	DDC GROUND
6	RED GROUND
7	GREEN GROUND
8	BLUE GROUND
9	NC
10	SYNC GROUND
11	GROUND
12	SDA
13	HORIZONTAL SYNC or COMPOSITE SYNC
14	VERTICAL SYNC(VCLK)
15	SCL

DDC DISPLAY DATA CHANNEL
 SDA SERIAL DATA
 SCL SERIAL CLOCK
 NC NO-CONNECTION

7.2 Serial Interface Input Connector (DIN-8P) For Serial Interface Function



PIN ASSIGNMENT

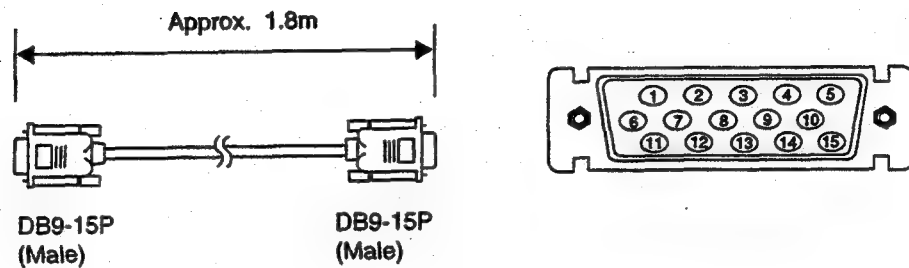
Pin No.	Signal	Description
1	DTR	Data Terminal Ready
2	NC	
3	TXD	Transmit Data
4	GND	Ground
5	RXD	Receive Data
6	GND	Ground
7	NC	
8	NC	

NC NO-CONNECTION

7.3

SC-B102 Signal Cable

PIN ASSIGNMENT AND SIGNAL LEVEL



Wire : 5 coaxial

SIGNAL PIN ASSIGNMENT	ANALOG
1	RED
2	GREEN
3	BLUE
4	GROUND
5	DDC GROUND
6	RED GROUND
7	GREEN GROUND
8	BLUE GROUND
9	NC
10	SYNC GROUND
11	GROUND
12	SDA
13	HORIZONTAL SYNC
14	VERTICAL SYNC(VCLK)
15	SCL

SIGNAL LEVEL

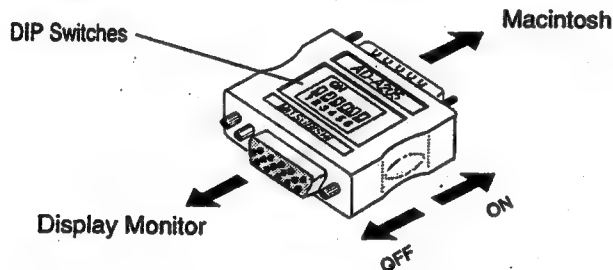
NC NO-CONNECTION
 DDC: DISPLAY DATA CHANNEL
 SDA: SERIAL DATA
 SCL: SERIAL CLOCK

7.4 Macintosh Adapter AD-A205 settings

The AD-A205 Macintosh Adapter allows you to take advantage of the built-in video capabilities of your Macintosh computer with the monitor. With it, you may select any available video mode via the DIP Switches.

Using the following chart, find the computer/resolution combination you wish to configure. There are alternate settings available for most computer / resolution combinations, but we recommend you set the factory preset timing. (see 1.2 Internal Preset Memory Capability)

The chart shows all available modes for Macintosh systems plus all possible combinations with monitor. Please be aware that not all Macintosh modes are capable of driving all Macintosh video modes.



In case of the computer corresponding to Multimode, you can select the resolution on your computer by setting the following switch. Please refer to instruction book of your computer about resolution setting.

21" Multimode

1,2,6 = Set DIP switches 1,2 and 6 "ON" (Supports 640X480@67Hz; 832X624@75Hz; 1024X768@75Hz; 1152X870@75Hz) or (Supports 640X480@67Hz; 832X624@75Hz; 1024X768@75Hz; 1152X870@75Hz; 1280X1024@75Hz) or (Supports 640X480@67Hz; 832X624@75Hz; 1024X768@75Hz; 1152X870@75Hz; 1280X960@75Hz; 1280X1024@75Hz)

17" Multimode

1,2,5 = Set DIP switches 1,2 and 5 "ON" (Supports 640X480@67Hz; 832X624@75Hz; 1024X768@75Hz)

13" Multimode

1,2,5,6 = Set DIP switches 1,2,5 and 6 "ON" (Supports 640X480@67Hz; 832X624@75Hz)

AD-A205 Mac Adapter settings Chart

Macintosh COMPUTER RESOLUTION	Macintosh Ilii Ilii	Macintosh LC, LC II -or- Performa 400, 405, 410, 430	Macintosh LC III, LC 475 -or- Performa 450, 460, 466, 467, 475, 476	Macintosh Ilii, IliiX -or- Performa 600, 600 CD	Macintosh LC 630, Performa 630 -or- Quadra 630	Macintosh Quadra 700, 900	Macintosh Quadra 605, 610, 650, 800, 950 -or- Centris 610, 650	Macintosh Quadra 840AV, 660AV -or- Centris 600AV	Apple display Card 4-8, 8-24, 8-24GC (revision B)	Apple display Card 24AC	Power Macintosh Workgroup Server 9150
640X480@60Hz		3,4	3,4	3,4	3,4	3,4	3,4	3,4		3,4	3,4
640X480@67Hz	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2,6	1,2,5,6
800X600@56Hz						—	—	—			
800X600@60Hz					3,4					1,2,6	
800X600@72Hz					3,4			3,4			
800X600@75Hz											
832X624@75Hz			2,4		2,4	2,4	2,4	2,4	2,4#	1,2,6	1,2,5,6
1024X768@60Hz								3,4		1,2,6	
1024X768@70Hz								3,4			
1024X768@72Hz											
1024X768@75Hz											
1024X768@75Hz							2,3	2,3		1,2,6	
1152X870@75Hz						1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,6	
1280X960@75Hz											
1280X1024@75Hz											
Macintosh COMPUTER RESOLUTION	Power Macintosh 6100, 6100AV, 7100, 7100AV, 8100, 8100AV -with- DRAM Video Port (HDI-45)	Power Macintosh 7100, 8100, -with- DRAM Video Card (DB-15)	Power Macintosh 6100AV, 7100AV, 8100AV -with- AV Video Card (DB-15)	Power Macintosh 6200	Power Macintosh 7200	Power Macintosh 7500, 8500	Power Macintosh 9500 -with- ATI Video Card	Macintosh PowerBook 160, 165, 165C 180, 180C	Macintosh PowerBook 520, 520C, 540, 540C	Macintosh PowerBook Duo 210, 230, 250, 270C -with- Duo Dock -or- Duo MiniDock	Macintosh PowerBook Duo 210, 230, 250, 270C -with- Duo DockII
640X480@60Hz	3,4	3,4	3,4	1,2,5,6	3,4	3,4	3,4	3,4	3,4	3,4	3,4
640X480@67Hz	1,2,5,6	1,2,6	1,2,6	1,2,5,6	1,2,6	1,2,6	1,2,6	1,2	1,2,5,6	1,2	1,2
800X600@56Hz		—	—				—	—	—	—	—
800X600@60Hz				1,2,5,6	3,4	3,4	3,4				
800X600@72Hz		3,4	3,4	1,2,5,6	3,4	3,4	3,4				
800X600@75Hz					3,4	3,4	3,4				
832X624@75Hz	1,2,5,6	1,2,6	1,2,6	1,2,5,6	1,2,6	1,2,6	1,2,6	2,4	1,2,5,6	2,4	2,4
1024X768@60Hz		3,4	3,4		3,4	3,4	3,4				
1024X768@70Hz		3,4	3,4				3,4				
1024X768@72Hz					3,4	3,4					
1024X768@75Hz					3,4	3,4	3,4				
1024X768@75Hz		1,2,6	1,2,6		1,2,6	1,2,6	1,2,6				2,3
1152X870@75Hz		1,2,6	1,2,6		1,2,6	1,2,6	1,2,6				1,2,3,4
1280X960@75Hz						1,2,6	3,4				
1280X1024@75Hz						1,2,6	1,2,6				

= Must have revision B of ROM on video board

— = Not working combination.

3. Circuit description

3.1 General

This display monitor consists of six blocks as shown in the following.

- (a) Power supply block (PWB-POWER)
- (b) Control block (PWB-DISPLAY)
- (c) Deflection block (PWB-MAIN)
- (d) Video block (PWB-CRT, PWB-DISPLAY)
- (e) Vertical deflection block (PWB-DISPLAY)
- (f) High voltage block (PWB-MAIN)

Elaboration of each circuit is described with section of hereafter.

This monitor has auto tracking function of digital control and follows automatically input signal of the horizontal frequency; 30 ~ 95kHz and the vertical frequency; 50 ~ 152Hz. The auto tracking function is controlled in the control block.

According to the input sync. signal frequency, the circuit operating is executed by changing over the circuit in the most suitable state.

The control block outputs the most suitable control signal by distinguishing input frequency.

The control block controls the picture size and position.

Circuit description

3.2 Power supply block

3.2.1 General

- (1) The power supply block corresponds to AC100V-120V and 220V-240V.
- (2) Power circuit of this monitor has the harmonic current restrain and function of power factor improvement by using MS (Magnetic switch : the control inductor utilized magnetic action of transformer). (This is called MS system power supply.)
- (3) Power supply block is sorted by the main and the sub power supply sections, and SUB power supply section only works in the suspend and power-off mode. Each section of the power supply consists of the switching regulator by RCC circuit (Ringing Choke Convertor). By feeding back the output voltage via the photocoupler, the power is controlled so that the secondary side output voltage does not change due to the AC input voltage fluctuation and the secondary side load fluctuation.
- (4) The secondary side output of this power supply block is as shown in Table 1.

Table 1.

Power supply block	Output voltage	Main load
Main power supply section	200V	Horizontal deflection, video circuit
	75V	Video circuit, High voltage circuit
	28V	Vertical circuit
	14V	Horizontal deflection, High voltage circuit
	12V	Control circuit, Vertical circuit
	-12V	Control circuit, Vertical circuit
Sub power supply section	7V	CRT heater, Video circuit
	5V	Control circuit

3.2.2 MS-RCC (MS system choke current discontinuity transmission power supply)

1. MS-RCC (MS system choke current discontinuity transmission power supply) basic circuit

The switch of MS-RCC is changed from the usual two switches of two steps converters that active filter of pressure up type is connected to preceding step of RCC to one. MS-RCC can work with a switch by the auxiliary winding of transformer called MS (Magnet switch). The circuit diagram is shown in figure1.

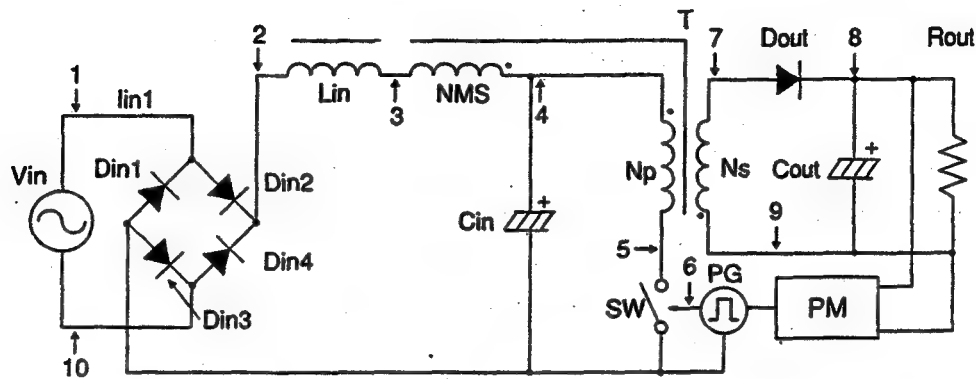


Figure 1. MS fly back current discontinuity transmission

The auxiliary winding of transformer used as MS (Magnet switch) in figure 1 is called MS winding. The polarity of MS winding is constituted as electric potential of node 3 becomes lower than node 4 when the switch continues. Accordingly node 3 synchronizes with node 5 and the same polarity changes according to ON/OFF of the switch. So it equivalents to that there is one switch between node 3 and ground. Active filter of pressure up type is formed by this MS and Lin inductor between node 2 and 3.

Active filter of pressure up type of current discontinuity transmission mode has the characteristic to improve power factor fundamentally as peak current is in proportion to input voltage when supposing ON time of the switch is constant. Similarly the power factor of this MS-RCC is improved automatically.

2. MS-RCC operating

Operating waveform of MS-RCC is shown in figure 2. Actuating is divided into two transmission mode fundamentally.

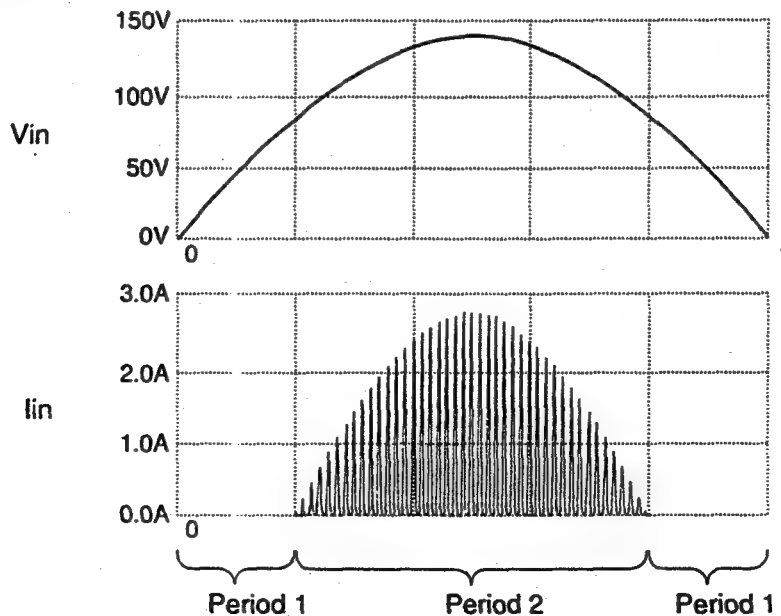
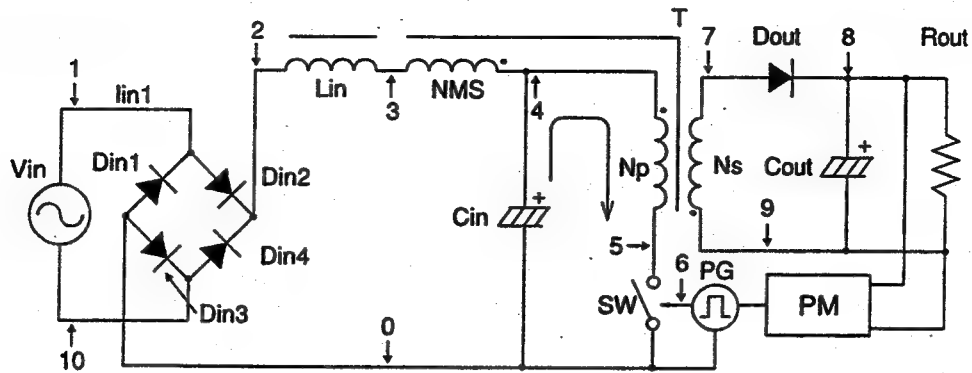


Figure 2. MS-RCC operating waveform

Circuit description

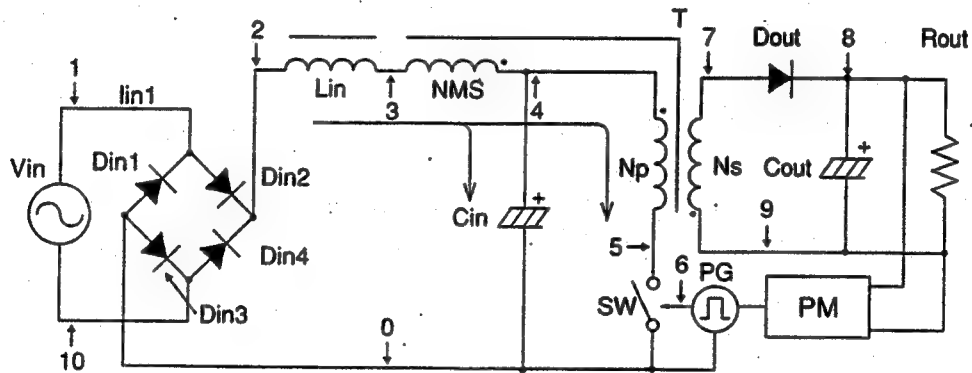
<Period 1>

As input voltage is lower than that of node 3 of switching ON, input current does not drift in period 1.



<Period 2>

As input voltage is higher than that of node 3 of switching ON, the current in proportion to input voltage drifts in period 2.



3.2.3 Rectifying smoothing circuit

- (1) The AC input voltage is rectified with the diode bridge in IC904 and is smoothed with C909 and C920. This rectifying circuit executes the automatic change-over that rectifies the voltage doubler in commercial input voltage 100 V and the full-wave in input voltage 220 V.

The operating is described to the following.

- (2) The negative half wave is charged to C942 by D911 and D912 when input switch is ON. Charging current flows to C943 by internal resistance of IC905 with charge of C942, but is behind the start of voltage by internal resistance of IC and time constant of C943.

IC905 becomes full-wave rectification when the voltage between C942 becomes change-over operating voltage 205V (Commercial input voltage is approx. 5V), and becomes voltage doubler when the voltage between C943 reaches 7.6V first. 14

As the voltage between C942 doesn't reach 205 V in commercial input voltage 100 V, the voltage between C943 reaches 7.6V, and IC905 switches ON (Junction between 2 pin and 3 pin) and becomes voltage doubler.

As the voltage between C942 reaches 205V in commercial input voltage 220V first, IC905 keeps OFF (Open between 2 pin and 3 pin) state and becomes full-wave rectification.

- (3) To add to the bridge commutation operating, IC904 has the function to prevent rush current in powering ON.

3.2.4 Demagnetizing circuit

- (1) This unit has the demagnetizing circuit by auto and manual operation.

This circuit prevents a drop in the picture performance due to magnetization of the CRT. The automatic demagnetizing circuit functions as described below when the power is turned on.

- (2) When the demagnetizing signal from the CPU is supplied to Q903, Q903 energizes the conductivity relay RY901 with that signal.

With this, a current is flowed to the demagnetizing coil and demagnetizing takes place.

This demagnetizing time is approx. five seconds.

- (3) The manual demagnetizing circuit executes the demagnetizing with the same type of operation as above when the demagnetizing switch on the front panel is pressed and the demagnetizing signal is output from the CPU.

3.2.5 Sub power supply section

- (1) Primary circuit

When powering on, base current flows to transistor Q1 in IC931 via starting resistance R933 and R944 of sub power supply section, and Q1 starts. When Q1 is turned on, collector current begins to flow and input voltage is applied to Np winding (between 4 and 6 pin) of power transformer T931. Voltage generates to Nc winding (between 1 and 2 pin) by winding ratio and base current is applied to Q1. Simultaneously with this, when charging C2 and the electric potential of C2 increases to $V_{be}=0.7V$, Q2 is turned on and Q1 turns off. When Q1 is turned off, the energy saved to power transformer T931 is output through D981. D981 is turned off when running out of this energy, but Ns winding (between 12 and 14 pin) has slight residual energy and the voltage generates to base winding Nc by this energy and turns Q1 on again and continues the switching operating.

Shunt regulator IC982 detects the output voltage on the secondary side and feeds back the voltage fluctuation on the secondary side via photocoupler IC906. The regulator changes the charging time of C2 in IC931 and controls ON time of transistor Q1 to make the constant-voltage.

Power transformer T931 has the winding for main power supply section HIC (IC901) starting (between 1 and 8 pin). When input voltage is applied to Np winding the same as Nc winding, the voltage generates by the winding ratio and is rectified to the half-wave by D904 and is output.

Circuit description

- (2) The voltage output from T931 is rectified to the half-wave by D981. The voltage is applied to the micro computer after dropping by three terminal regulator IC981 to 5V, and the micro computer starts. When the micro computer starts, the power off signal (P-OFF) and the power suspend signal (P-SUS), which is output from the micro computer, change to Hi. Q987, Q988, Q981, Q986 and Q985 are turned on and the voltage is applied to heater. Q983 is turned on and the current flows to the photocoupler IC903, and switch on the ON / OFF switch Q902 on the main power supply section HIC (IC901).

3.2.6 Main power supply section

(1) Primary circuit

10 pin terminal of IC901 becomes Low by SUB power supply and oscillation starts to work. Starting voltage is applied to C916 through D904, R945 and R911 and the control circuit starts to work when Vcc terminal voltage reaches starting voltage (DC15V).

(As Vnc terminal has no signal when starting, the above formula is unable to turn the main MOSFET to on. IC901 built-in the oscillator that oscillates by approx. 30kHz so that the oscillation operating can last when IC901 has no Vnc signal. Oscillation operating lasts as the steady oscillation after detecting the Vnc signal.)

In the steady oscillation operating, Vcc power supply is applied from the auxiliary winding (T901 between 1 and 2 pin) through D903 and R911.

Main power supply section detects the output voltage on the secondary side by the shunt regulator IC951, and controls the feedback of the voltage fluctuation in the secondary side via the photocoupler IC902.

ON time control is executed by changing the reference voltage of Ton circuit in IC901 to make the constant voltage of output voltage.

(2) Secondary circuit

The voltage output by T901 is rectified to half wave by D952, D953, D954, D955, D956 and D957 and is applied to each circuit.

3.2.7 Power management function

- (1) This monitor has the power management function. This function works when connecting and using the personal computer having the power management function. The power management function changes in the state of input signal and has four modes; normal, stand-by, suspend and power off.

the displaying state of consumption power and power-on indicator is as follows.

Mode	Consumption power	Restored period	Power-on indicator
Normal	150W or less		Power ON
Stand-by	100W or less	immediately	Flickering (0.5-second interval)
Suspend	15W or less	Approx. 3 sec.	Flickering (Two-second intervals)
Power-off	8W or less	Approx. 12 sec.	Flickering (ON for 3 sec. / OFF for a sec.)

Control signal to execute power management function is output from micro computer.

The restoration from stand-by, suspend and power off modes is executed by sync. signal input.

Mode	Sync. signal		State	Picture display
	H	V		
Normal	ON	ON		Displayed
Stand-by	OFF	ON	NO VIDEO	No signal
Suspend	ON	OFF	ON for CRT heater only	No signal
Power-off	OFF	OFF	OFF for CRT heater only	No signal

(2) Suspend (P-SUS) mode

When the power suspend (P-SUS) signal from the micro computer changes over to Low, Q983 is turned off. As the current does not flow to IC903, the feedback to the primary circuit is not executed and Q902 turns off. As 10 pin of IC901 (ON/OFF switch in IC901) changes over to High, IC901 stops oscillating.

Q986 and Q985 are off and the heater voltage is dropped by R991 to approx. 5V (approx. 6.1V in normal) and the electron tube heater is always warmed so that the picture comes again on the screen immediately.

(3) Power off mode

When the power suspend (P-SUS) and the power off (P-OFF) signals from the micro computer changes over to Low, IC901 stops oscillating.

Q987, Q988, Q982 and Q981 are off, and the heater voltage output and the voltage output to the rotation coil are stopped. When the monitor is in power-off mode, the power supply only of the micro computer is secured.

3.2.8 Protective function

To protect circuit when unexpected abnormality occurred, overload protection, overcurrent protection and overheat protection functions are kept in power circuit section of this monitor.

(1) Overload protection function

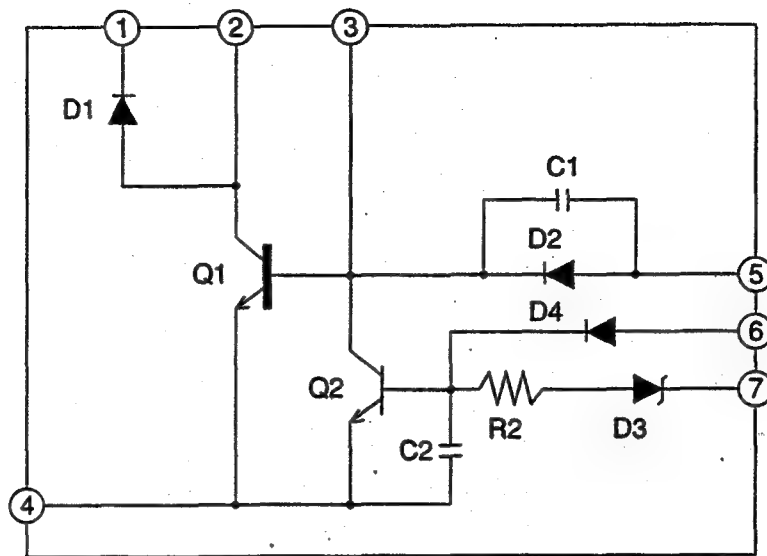
When the output voltage on the secondary side increases, the auxiliary winding voltage (T901 between 1 and 2 pin) by the winding ratio of T931 increases. When the voltage that passed D914 and R915 exceeds the zener voltage of D905, the voltage takes to 9 pin (latch terminal) of IC901 and IC901 enters to the latch mode and stops to oscillating. The threshold value of latch terminal is from 1.9V to 2.3V.

(2) Overcurrent protection function

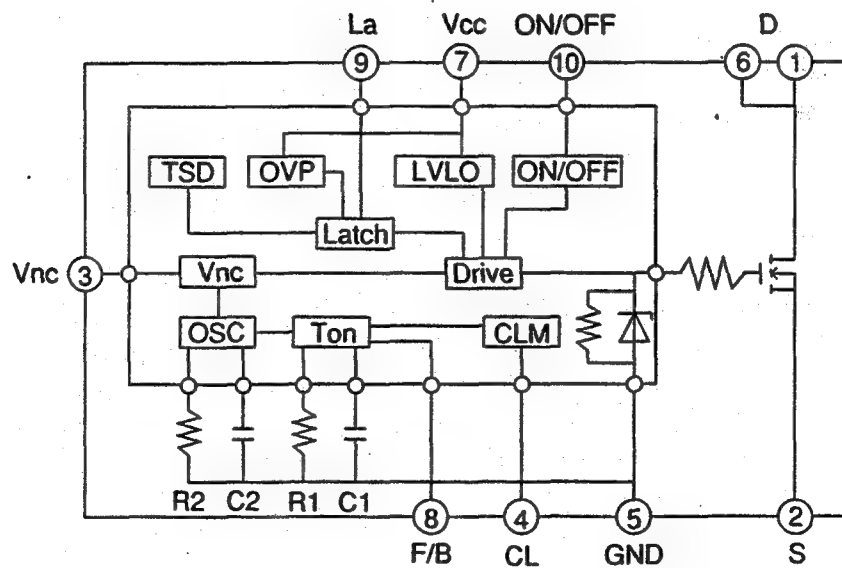
When the load on the secondary side is overload state, the current limit that is the function of IC901 works. When the current limit works, the output is controlled to the constant power, so when output current increases, output voltage decreases. As the output voltage is proportional to the auxiliary winding voltage (T901 between 1 and 2 pin), the control circuit in IC901 is turned off and stops to oscillate when the auxiliary voltage decreases to the operating stop voltage. After that, the oscillation operating starts when the auxiliary voltage reaches the starting voltage by Vcc voltage from sus power. If the load is in the overload state, the intermittent oscillation operating repeated the above operating continues.

(3) Overheat protection

When some abnormality occurred while operating and IC901 heated abnormally, the oscillation operating stops at 150°C of the upper limit of semiconductor by the temperature detection function.



<IC931 Equivalent circuit>
(MA2810)



<IC901 Block diagram>
(MA6930)

3.3 Deflection block

The deflection system consists of the horizontal and high voltage circuits.

3.3.1 Horizontal deflection circuit

(1) The theory of the horizontal deflection operation is as shown in Figure 3. Q503 functions as the horizontal output, and D505, D506, D507, D508 and D509 as dumper diodes.

Q515 to Q520 changeover according to the horizontal frequency to compensate the horizontal linearity.

(2) The horizontal output transistor Q503 passes through Q502, Q722 and Q723 in PWB-CONTROL at the circuit diagram, and is turned ON/OFF by 16 pin of IC700 drive pulse via the control PCB IC715.

While Q503 is ON, the deflection current IDY is increased from 0 to a maximum of Ip according to the following expression.

$$I_p = (V_{cc}/LDy) \times T_{on}$$

(LDy: Parallel value of horizontal output transformer and DY)

When the drive pulse reaches a negative polarity, Q503 turns OFF, and IDy flows until Vcp is charged to $\{1 + (\pi/2) \times (T_s/T_r)\}$. When Vcp reaches the maximum value, the charge accumulated in C510 and C511 is flowed to Dy as the electrical discharge current.

This charge discharge period is called the "retrace period", and is expressed with the following expression.

$$T_r = \pi \sqrt{LDy \times C_r}$$

When Vcp reaches 0, the dumper diode turns ON, and IDy flows from -IP to 0 amperes. The Q503 ON period and dumper diode ON timer are set so that they overlap at the IDy 0 ampere point, so cross over distortion does not occur at the IDy 0 ampere point.

D505 ~ D508 are high-speed dumper diodes that conductor excessive current, and the main dumper voltage flows through D509.

The horizontal output transformer T502 connects the power in parallel with the deflection yoke, and functions as a choke coil.

(3) The horizontal picture size is controlled by Q521, D516, L514, C535 that configure the DC-DC converter and IC701. The horizontal deflection current value is converted to the voltage by T503 and is fed back to 17 pin of IC701 on the control PWB.

The feedback voltage and horizontal picture size control voltage 18 pin are controlled to be same electric potential and the rectangular wave is output from 17 pin. The Q521 gate is driven by this output to maintain a stable horizontal picture size. By controlling the horizontal picture size variation through CPU control of 39 pin of IC708 voltage, the DC voltage of C535 will change, and the horizontal picture size will change.

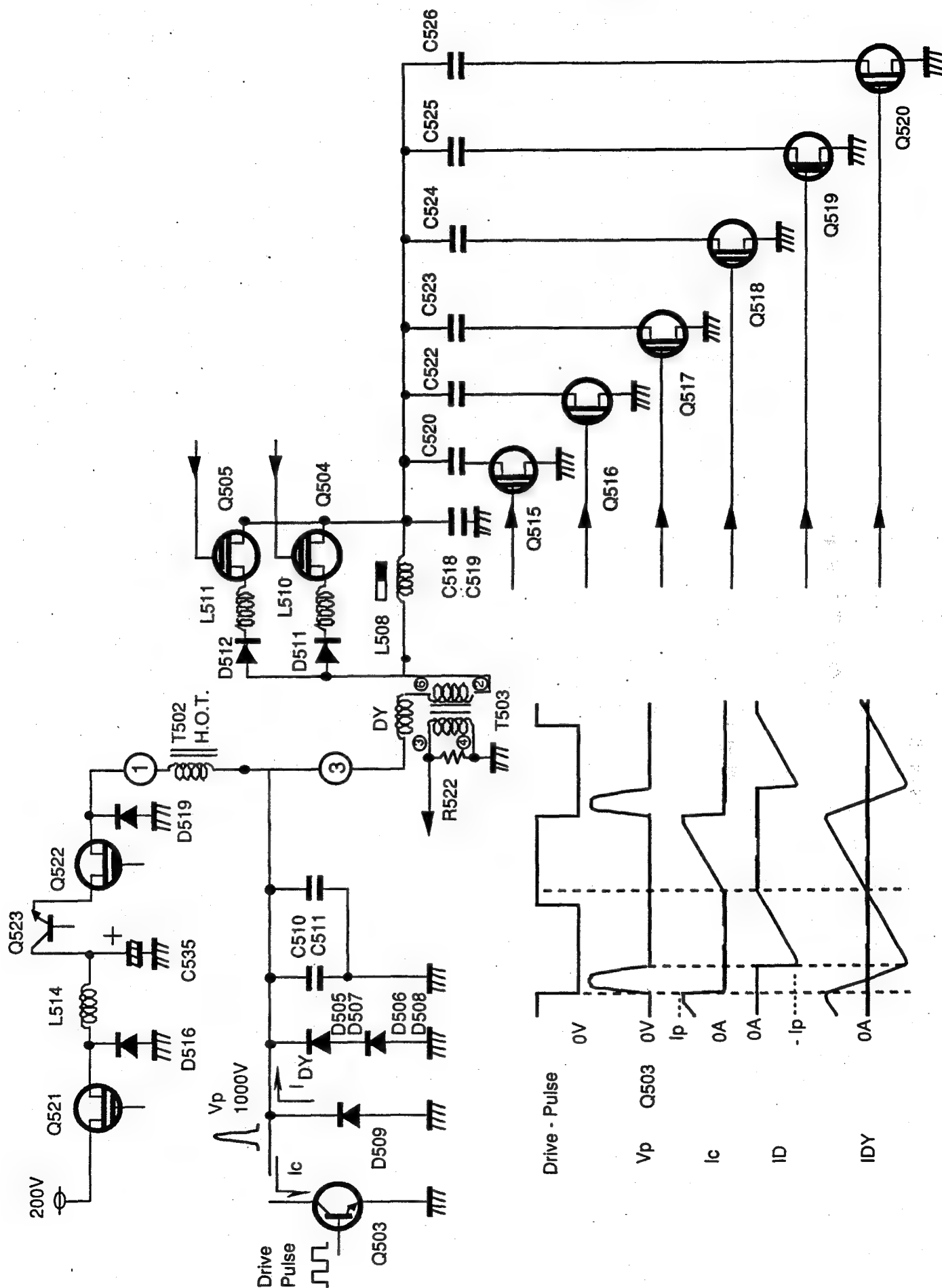
(4) The side PCC circuit is controlled by Q522, D519, IC700, IC701, IC702, IC703 and IC715 as the chopper of the DC voltage stabilized at both ends of C542. Each distortion compensating signal applied on 2 pin of IC701 from IC703 is compared with the sawtooth blade synchronized with the horizontal synchronization created in IC801, and is then converted into a rectangular wave PWM signal. The side PCC control can drive the Q522 gate from 1 pin of IC715 by this PWM.

(5) Horizontal position adjustment (left/right balance adjustment)

The horizontal position and left/right composite signal configured by IC5A1, Q5A1, IC5A2 and IC702 and applied to IC5A1 from 28 pin of IC702 controls 2 pin of the IC5A2, and supplies a DC voltage or a vertically synchronized PIN, KEY or free dynamic current from 4 pin of IC5A2 through L5A1.

(6) Q504 and Q505 change the horizontal linearity compensation coil, and L510 and L511 turn ON in parallel with the horizontal linearity compensation coil L508 to compensate the horizontal linearity with the horizontal frequency.

Figure 3. Horizontal deflection circuit principle



3.3.2 High voltage circuit

(1) The collector pulse of the horizontal deflection is divided into 1/20 and the pulse is input in 4 pin of IC501, and Q601 is switched with the horizontal cycle. Energy is supplied to the high voltage coil when Q601 turns ON, and generates a high voltage.

To keep the high voltage constant regardless of the horizontal frequency or beam current amount, the high voltage is divided into approx. 1/5400 by the bleeder resistor in T601 and is then applied onto 6 pin of IC601 and compared with the reference voltage in the IC.

The gate pulse width of Q601 is changed by the output from 1 pin of IC601 so that two voltages become the same potential.

In this manner, feedback control is executed so that the high voltage is always constant.

The high voltage is set by VR601 (HV-ADJ). (27.0KV standard)

(2) The pulse detected by the third winding of T601 is rectified by D605 and C605. When the high voltage exceeds 31.2KV, the voltage becomes 20.99V and is applied to 4 pin of IC602 and exceeds the reference voltage in the IC. The high voltage is output from 8 pin of IC and stops the high voltage control pulse output from 1 pin of IC601 to shut down the high voltage circuit.

(3) The beam current flowed to T601 is detected at R611, input into 7 pin of IC602, and then compared with the reference voltage of the IC. If the beam current exceeds approx. 1400 μ A, the high voltage is output from 8 pin of IC and stops the high voltage control pulse output from 1 pin of IC601 to shut down the high voltage circuit.

This state is not released until the power switch is turned OFF.

3.3.3 TCO circuit

TCO circuit divides the voltage of the horizontal output pulse by C539 and C540 and amplifies inversely by Q5F1, Q5F2 and Q5F3, and applies the cancel pulse voltage to TCO cancel pulse.

3.3.4 DBF circuit

The DBF circuit is used to optimize the circuit at the center and periphery of the screen.

There are two focus electrodes, and a divided anode voltage is applied on both electrodes. The horizontal (approx. 350V) and vertical (approx. 150V) parabola waves are overlaid on the dynamic (F1) via the capacitor.

The horizontal and vertical parabola waves are created by IC703, and after being amplified by Q6E4, Q6E2, Q6E3 and Q6E1, are applied on the fly-back transformer T601.

Circuit description -----

3.4 Control block

Figure 4 shows the block diagram of the control PWB, and consists of IC105 of 8 Bit CPU, IC703 and IC704 generating and controlling the picture distortion and DBF waveform, IC203 separating the sync. signal, IC714 of the horizontal and vertical oscillation operating, IC701 controlling +B voltage, IC102 of nonvolatile memory and IC100 and IC104 of D/A converter.

3.4.1 Adjustment and timing judgement

Information input to the CPU (IC105) includes the brightness, contrast, screen size and position key input information from the front panel switches is transferred via resistance. The horizontal and vertical sync. signals and sync. signal polarity are transferred via the synchronizing separated (IC203).

The horizontal and vertical sync. signal frequencies are measured by counting the cycle with the timer built into the CPU. The data such as the screen size and position preregistered in IC102 based on the sync. signal frequency and polarity is read out to the built-in RAM by IC105. This information is output to the picture distortion control IC (IC703 and IC704) and D/A converter (IC100 and IC104) shown in the block diagram.

3.4.2 Automatic tracking operation

Horizontal automatic tracking operation:

IC105 output the input data proportional to the horizontal sync. signal frequency to the D/A converter IC104 (DAC25) as H-OSC-MAIN. The linear interpolation is calculated based on the frequency fine adjustment data (five points: HOSCLOW, HOSCM1, HOSCM2, HOSCH1, HOSCH2) registered in IC102 at the factory adjustment. This is output to the D/A converter IC104 (DAC16) as H-OSC-SUB. The above H-OSC-MAIN and H-OSC-SUB are added by IC100, and output to IC714 (horizontal oscillation control IC) as the horizontal oscillation control voltage. The capacity of the horizontal oscillation capacitor in IC714 is changed according to the range of the horizontal frequency near 86kHz by the IC105 S-OSC signal.

Horizontal +B voltage control operation:

Following the input horizontal sync. signal frequency, IC105 calculates the linear interpolation based on the adjustment data per frequency data (two points: +BLOW and +BH1) registered in IC102 at the factory adjustment. This is output to the D/A converter IC104 (DAC13) as the +B control voltage. The +B control voltage and the horizontal picture size control voltage output from the D/A converter IC104 (DAC14) are added and input to IC701 (#18).

The other hand, feedback signal (IDY-FB) executed the voltage conversion of the horizontal deflection current and the above control signal are differential amplified in IC701 and are compared with the sawtooth wave of IC701 (#4) and the pulse width control voltage is output from IC701 (#11).

Horizontal output transistor drive condition control operation:

Following the input horizontal sync. signal frequency and horizontal picture size adjustment data, IC105 outputs the drive control voltage calculated the linear interpolation based on the adjustment data per horizontal picture size/frequency (eight points: H-DRIVE-N-LOW, H-DRIVE-N-M1, H-DRIVE-N-ME, H-DRIVE-N-HI, H-DRIVE-W-LOW, H-DRIVE-W-M1, H-DRIVE-W-M2, H-DRIVE-W-HI) registered in IC102 at the factory adjustment to the D/A converter IC104 (#24).

The other hand, the differential between the horizontal drive control feedback voltage (H-DR-FB) and the above drive control voltage is compared by the pulse width control circuit consisted of IC700 and IC715, and the pulse control voltage is output via the push-pull consisted of Q700 and Q701.

3.4.3 Distortion compensation operation

The compensation waveform for distortion compensation is realized by IC703 analog waveform generation function.

(1) S-PCC compensation process

The following waveforms are compounded in IC705, the compound waveform is output from #8.

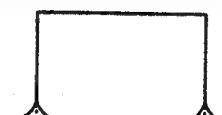
PCC-CENTER (IC710 #7)



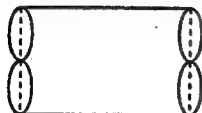
CORNER-PCC (IC704 #30)



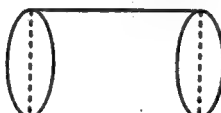
BOTTOM-PCC (IC705#1)



PCC-SINE (IC705 #31)



V-PARA (IC703 #32)



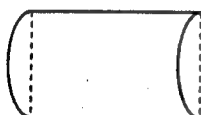
PCC-PHASE (IC703 #33)



(2) PIN/KEY balance compensation process

The following waveforms are compounded in IC702, the compound waveform is output from #7.

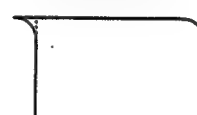
PIN-BALANCE (IC705 #8)



KEY-BALANCE (IC701 #37)



TOP-BALANCE



* H-CENT (IC704 #12) is also compounded in IC702.

Circuit description -----

3.4.4 Vertical deflection circuit

The vertical deflection consists of IC (IC400) on the PWB-CONTROL and the peripheral circuits. The oscillation frequency is controlled by IC400.

The picture size is controlled by the control signal from IC105 (CPU) and the analog switch IC403.

The vertical linearity is controlled by the analog switch IC404 and IC405.

The picture position is controlled by IC105 (CPU) and Q401, Q402 and Q403 work as the current driver.

3.4.5 Horizontal static convergence circuit

The horizontal static convergence circuit is a circuit where the mis-convergence at the side of the X-axis is compensated. The adjustment is done by flowing a DC current to the coil wound on the DY neck side. R and B function symmetrically to the left and right in regard to G.

The plus or minus DC current is flowed to the H-STATIC coil from 14 pin of IC716.

3.4.6 Rotation circuit

The rotation circuit is a circuit that compensates the inclination of the picture caused by earth magnetism. The adjustment is done by flowing a DC current to the coil wound on the front side of DY.

The plus or minus DC current is flowed to the rotation coil from 1 pin of IC716.

3.4.7 Auto canceller circuit

The auto canceller circuit consists of the auto cancel kid and the purity coil/manual compensation control circuit. It works by extinguishing the external magnetic field near the CRT surface to compensate automatically the irregularity of luminance and the raster rotation due to the magnetic field of CRT tube axis.

3.4.8 Moire cancel circuit

The moire cancel circuit is constituted by oscillating the picture in right and left every 1 line, and decreases the interference fringe of line pattern appeared in the picture.

3.5 Video block

3.5.1 Video signal amplifying circuit (G-Channel only)

Each video circuit of R, G and B is the same structure. This section describes the G (Green) video circuit only.

The video signal is input to 4 pin (D-SUB input) and 12 pin (BNC input) of IC206 for change-over. Input of 4 pin is selected when 17 pin is low and 12 pin when is high, and is output from 28 pin. The output from 28 pin of IC206 is input to 3 pin of IC200. Video signal, the video signal for adjustment picture (OSD) and clamp signal are compounded and output from 35 pin.

The blanking signal output from 6 pin of IC712 is input to the base of Q211 and works blanking. The output from 35 pin of IC200 is input to 10 pin of the main amplifier IC300 and amplified. The output from 12 pin of IC300 is compounded with the cut off voltage (Video output bias) output from 14 pin of IC301 after AC coupling in C320. After compounding, the output is applied to CRT cathode via the lead wire. The cut off voltage (Video output bias) is varied by the cut off control voltage input to 7 pin and the brightness control voltage input to 8 pin of IC301.

3.5.2 Synchronizing separated circuit

The sync. signal input from D-SUB connector is input to 7 pin (Horizontal) and 8 pin (Vertical) of IC206, and also the sync. signal input from D-SUB connector is input to 15 pin (Horizontal) and 16 pin (Vertical) of IC206. The output selected same as the video signal is input to 1 pin (Vertical) and 4 pin (Horizontal) of IC203. IC203 is for the sync. signal separating and each separated output of the horizontal and the vertical is output from 21 pin (Vertical) and 18 pin (Horizontal).

The sync. on green signal input is input to 7 pin of IC203 and is separated to the composite synchronizing and then is output same as the above.

The clamp pulse selects the output of 13 pin of IC203 when having the sync. signal and is input to 18 pin of IC200. The pulse of which waveform is formed by the collector pulse is used as the clamp pulse.

3.5.3 On Screen Display circuit (OSD)

The control signal of the adjustment picture (OSD) is input to 4 pin of IC202 (CE-M35045), 5 pin (CLK), 6 pin (DATA), 18 pin (H-BLK) and 19 pin (V-BLK).

The output signal from 12 pin (BLKO), 13 pin (ROSD), 15 pin (GOSD) and 17 pin (BOSD) is compounded with the video signal in IC200.

Circuit description

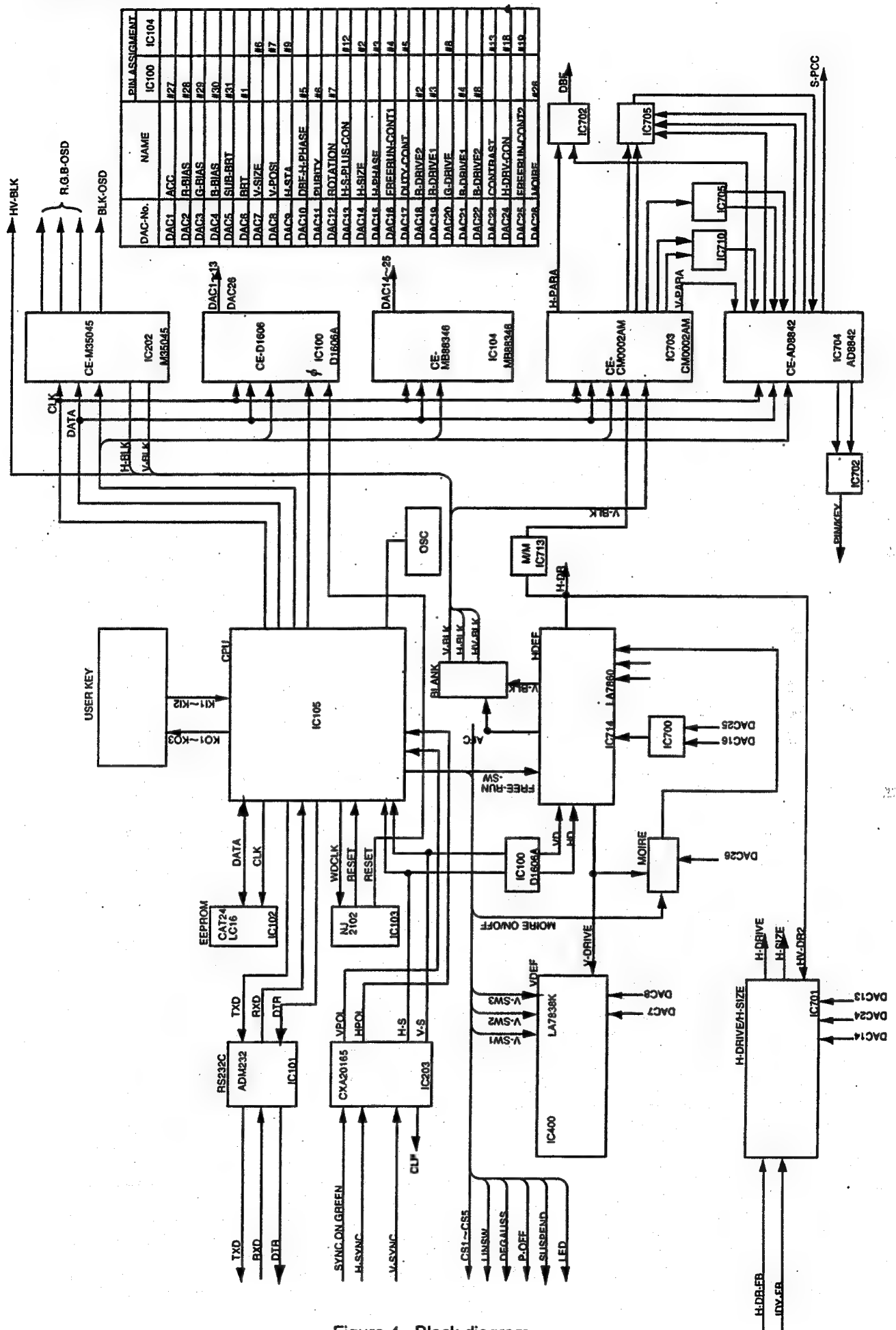


Figure 4. Block diagram

IC703 PIN FUNCTION

Pin No.	Terminal name	Function	Pin No.	Terminal name	Function
1	VEE-1	GND	25	VEE-3	-5V
2	HO1C	-	26	N/C	-
3	HO2C	-	27	HO-2	DBF-H-AMP
4	HBTMDDET		28	HO-1	DBF-H-BALANCE
5	HPARAC		29	GND-4	GND
6	HPEKDET		30	VO-4	CORNER-PCC
7	HRETDET		31	VO-3	PCC-SINE
8	HRETC		32	VO-2	V-PARABOLA
9	HSAWDET		33	VO-1	PCC-PHASE
10	HSAW		34	VO4C	VO4C
11	GND-2	GND	35	VO3C	VO3C
12	GND-3	GND	36	VO2C	VO2C
13	VBLKO		37	VO1C	VO1C
14	HBLK		38	VCC-1	5V
15	VBLK	V-BLK	39	VSAWC	
16	VEE-2	-5V	40	VSAWDET	
17	MUTE (-)	PULL UP	41	VRETC	
18	CK (-)	CLK	42	VRETDET	
19	DATA	DATA	43	N/C	
20	CE (-)	CE-CM0002AM	44	VBTMDDET	
21	VCC-2	5V	45	VPARAC	
22	INJ		46	VPEKET	
23	CSEL-1	PULL UP	47	GND-1	GND
24	CSEL-2	PULL UP	48	REFR	

IC704 PIN FUNCTION

Pin No.	Terminal name	Function	Pin No.	Terminal name	Function
1	Vout C	PIN BALANCE	13	Vout H	PCC-AMP
2	Vout B	DBF-V-AMP	14	Vin G	
3	Vout A	CENTER-PCC	15	Vin H	
4	Vin B		16	LD	CE-AD8842
5	Vin A		17	CLK	CLK
6	GND	GND	18	SDO	-
7	PR (-)	PULL UP	19	Vss	-5V
8	Vin E		20	SDI	DATA
9	Vin F		21	VDD	5V
10	Vout E	BOTTOM-PCC	22	Vin D	
11	Vout F	TOP-BALANCE	23	Vin C	
12	Vout G	H-POSI	24	Vout D	KEY-BALANCE

3.6 Software

3.6.1 General

(1) Input frequency range

Horizontal : 30 ~ 95 kHz (Lower limit 29kHz Upper limit 96 kHz)

Vertical : 50 ~ 152 Hz (Lower limit 48kHz Upper limit 152 kHz)

(2) Memory timing

Preset timing : 16 timings

User timing : 12 timings

3.6.2 Frequency change detecting function

When inputting the normal signal, check the input frequency usually. In case of not satisfying the following conditions a., b. and c., judge the frequency having change. When detecting the frequency change, compare the directory data written at EEPROM with the directory data of input signal in the following order of the following (1) ~ (3), and read and output the picture data.

(1) When satisfying the all of the conditions a., b. and c., judge the signal is same as the signal memorized the directory data, and read and output the timing data from EEPROM.

a. Both the polarities of the horizon and vertical input sync. signals are same.

b. The difference of the horizontal frequency is within 1kHz.

c. The difference of the vertical frequency is within 2.5Hz.

(2) When the same timing is not registered, detect the timing data satisfying the conditions b. and c.. If the data exists, read and output the timing data from EEPROM.

(3) When the timing satisfying the conditions b. and c. is not registered, read and output picture data of the timing horizontal frequency is the nearest in the timing picture data is already memorized.

3.6.3 Writing of the directory data

(1) Preset timing

When operating the adjustment picture in the factory mode (1 or 2) or receiving the message of the factory write command by communication, renew the directory data. This operation is executed to get rid of error of the frequency counting value that the directory data and the monitor have in initializing.

(2) User timing

When inputting the new timing and operating the adjustment picture, renew the directory data. When 12 user timings are already memorized, erase the first of the user timing and write at the part. When the new user timing is input, it is memorized at the second. Renew it in old order in the same way as follows.

3.6.4 Picture adjustment function

This monitor has the picture adjustment with OSD and communication. The function has the following five adjustment modes.

a. Normal mode

b. Enhanced mode

c. Factory 1 mode (It enters with the operation on the front panel.)

d. Factory 2 mode (It enters with the operation by SW101 on the PWB-CONTROL.)

e. Free running mode

As to each adjustment mode, refer to "4. Adjustment procedure".

Circuit description
Table Adjustment Items for data administration/recall operation/center click operation

Adjustment Items	Data administration		Recall operation	Center click operation
	By Timing	Common		
CONTRAST		*		*
BRIGHT		*		*
CONNECTOR		*		
H-SIZE	*		*	
H-PHASE	*		*	
V-SIZE	*		*	
V-POSI	*		*	
PCC-AMP	*		*	
PCC-PHASE	*		*	
PIN-BALANCE	*		*	
KEY-BALANCE	*		*	
ROTATION		*		*
H-STATIC		*		*
R-GAIN color1		*	* by the color adjustment screen	
G-GAIN color1		*	* by the color adjustment screen	
B-GAIN color1		*	* by the color adjustment screen	
R-GAIN color2		*	* by the color adjustment screen	
G-GAIN color2		*	* by the color adjustment screen	
B-GAIN color2		*	* by the color adjustment screen	
R-GAIN color3		*	* by the color adjustment screen	
G-GAIN color3		*	* by the color adjustment screen	
B-GAIN color3		*	* by the color adjustment screen	
POWER-SAVE		*		
MOIRE-CLEAR	*		*	
MOIRE-LEVEL	*		*	
H-POSI	*		*	
CENTER-PCC	*		*	
CORNER-PCC	*		*	
BOTTOM-PCC	*		*	
TOP-BALANCE	*		*	
PCC-SINE	*		*	
V-PARABORA	*		*	
CLAMP-PULSE-POSITION	*		*	
PURITY		*		*
VIDEO-LEVEL	*			
DBF-H-AMP	*			
DBF-H-PHASE	*			
DBF-V-AMP	*			
R-BIAS color1		*		
G-BIAS color1		*		
B-BIAS color1		*		
R-BIAS color2		*		
G-BIAS color2		*		
B-BIAS color2		*		
R-BIAS color3		*		
G-BIAS color3		*		
B-BIAS color3		*		
HOSC-LOW-M1		*		
HOSC-LOW-M2		*		
HOSC-LOW-H1		*		
HOSC-LOW-H2		*		
+B VOLTAGE-LOW / H1		*		
H-DRIVE-W-LOW-M1		*		
H-DRIVE-W-LOW-M2		*		
H-DRIVE-W-LOW-H1		*		
H-DRIVE-N-LOW-M1		*		
H-DRIVE-N-LOW-M2		*		
H-DRIVE-N-LOW-H1		*		
ABL-ADJUST		*		
BRT-CENT/MAX		*		
SUB-BRIGHT		*		

Table Adjustment Items for adjustment modes

Adjustment Items	Adjustment mode			
	Normal	Enhanced	Factory 1 (RS232C)	Factory 2
CONTRAST	*		*	*
BRIGHT	*		*	*
CONNECTOR	*		*	*
H-SIZE	*		*	*
H-PHASE	*		*	*
V-SIZE	*		*	*
V-POSI	*		*	*
PCC-AMP	*		*	*
PCC-PHASE	*		*	*
PIN-BALANCE	*		*	*
KEY-BALANCE	*		*	*
ROTATION	*		*	*
H-STATIC	*		*	*
R-GAIN color1	*		*	*
G-GAIN color1	*		*	*
B-GAIN color1	*		*	*
R-GAIN color2	*		*	*
G-GAIN color2	*		*	*
B-GAIN color2	*		*	*
R-GAIN color3	*		*	*
G-GAIN color3	*		*	*
B-GAIN color3	*		*	*
POWER-SAVE	*		*	*
MOIRE-CLEAR	*		*	*
MOIRE-LEVEL	*		*	*
H-POSI		*	*	*
CENTER-PCC		*	*	*
CORNER-PCC		*	*	*
BOTTOM-PCC		*	*	*
TOP-BALANCE		*	*	*
PCC-SINE		*	*	*
V-PARABORA		*	*	*
CLAMP-PULSE-POSITION		*	*	*
PURITY		*	*	*
VIDEO-LEVEL		*	*	*
DBF-H-AMP			*	*
DBF-H-PHASE			*	*
DBFV-AMP			*	*
R-BIAS color1			*	*
G-BIAS color1			*	*
B-BIAS color1			*	*
R-BIAS color2			*	*
G-BIAS color2			*	*
B-BIAS color2			*	*
R-BIAS color3			*	*
G-BIAS color3			*	*
B-BIAS color3			*	*
H-OSC-LOW-M1				*
H-OSC-LOW-M2				*
H-OSC-LOW-H1				*
H-OSC-LOW-H2				*
+B VOLTAGE LOW / H1				*
H-DRIVE-W-LOW-M1				*
H-DRIVE-W-LOW-M2				*
H-DRIVE-W-LOW-H1				*
H-DRIVE-N-LOW-M1				*
H-DRIVE-N-LOW-M2				*
H-DRIVE-N-LOW-H1				*
ABL-ADJUST			*	*
BRT-CENT/MAX			*	*
SUB-BRIGHT			*	*

Circuit description -----

3.6.5 Power management function

This is the function reduces the power consumption of the monitor when not using, and the operation of this setting is executed by the adjustment picture.

The function has the following 3 modes.

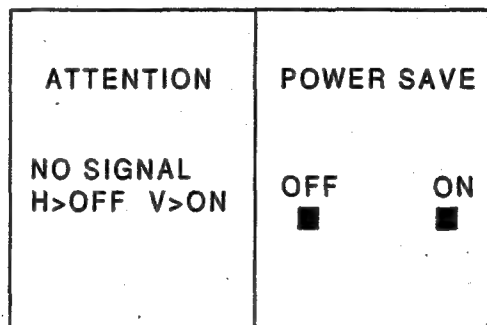
- (1) Stand-by mode
- (2) Suspend mode
- (3) Power-off mode

(1) Stand-by mode

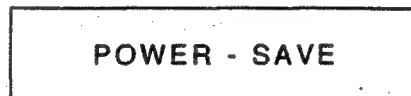
Blank out the picture display in this mode.

Operating:

When the horizontal sync. signal is not input or the state of input frequency of 10kHz or less continues for 3 seconds in the state POWER SAVE is ON and the vertical sync. signal is input normally, the following OSD picture is displayed.



More, when the above state continues for 5 seconds, the following OSD picture is displayed.



Furthermore, when the above state continues for 2 seconds, move to the Stand-by mode.

Monitor state:

Power-on indicator flickering at 0.5-second interval after moving to the Stand-by mode.

Mode cancellation:

When the normal horizontal sync. signal is input, the mode returns to the normal mode.

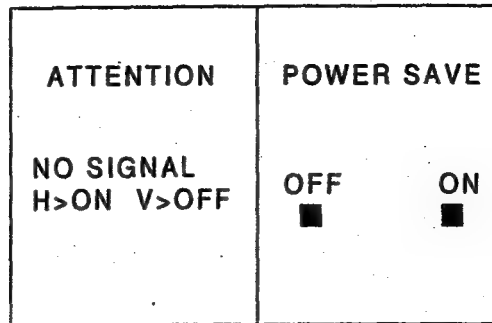
(2) Suspend mode

Stop the secondary side power excluding the heater and +5V power. The mode moves to the Power-off mode by changing over the SUSPEND signal from H (High) to L (Low) on PWB-CONTROL.

When the Suspend mode is cancelled, the SUSPEND signal is changed over to H (High).

Operating:

- a. When the vertical sync. signal is not input or the state of input frequency of 30kHz or less continues for 3 seconds in the state POWER SAVE is ON and the horizontal sync. signal is input normally, the following OSD picture is displayed.



More, when the above state continues for 5 seconds, the following OSD picture is displayed.



Furthermore, when the above state continues for 2 seconds, move to the Suspend mode.

- b. When receiving the SUSPEND signal with the MEGU kit, the mode moves to the Suspend mode.

Monitor state:

Power-on indicator flickering at 2-second intervals after moving to the Stand-by mode.

Mode cancellation:

- In case of the operating a., the mode returns to the normal mode when the vertical sync. signal is input normally.
- In case of the operating b., the mode returns to the normal mode when receiving the SUSPEND OFF signal from MEGU kit.
- In case of both the operating a. and b., the mode returns to the normal mode by that displaying the OSD picture with the buttons on the front panel and changing the setting of the power management function.

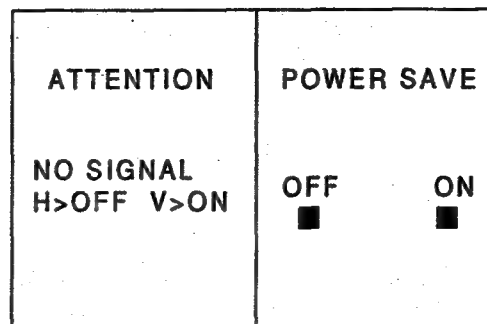
(3) Power-off mode

Stop the secondary power side excluding the heater and +5V power. The mode moves to the Power-off mode by changing over the SUSPEND signal input from the PWB-CONTROL to the power supply circuit from H (High) to L (Low) and the P-OFF signal from H (High) to L (Low). When the Suspend mode is cancelled, the SUSPEND signal is changed over to H (High).

Circuit description -----

Operating:

- a. When POWER SAVE is ON and the vertical sync. signal or input frequency of 30Hz and the horizontal sync. signal are not input, or when the state of input frequency of 10kHz or less continues for 3 seconds, the following OSD picture is displayed.



More, when the above state continues for 5 seconds, the following OSD picture is displayed.



Furthermore, when the above state continues for 2 seconds, move to the Power-off mode.

- b. When receiving the POWER-OFF signal with the MEGU kit, the mode moves to the Power-off mode.

Monitor state:

It repeats that power-on indicator turns on for three seconds and off for a second after moving to the Power-off mode.

Mode cancellation:

- In case of the operating a., the mode returns to the normal mode when the horizontal and vertical sync. signals are input normally.
- In case of the operating b., the mode returns to the normal mode with the power switch ON/OFF.
- In case of both the operating a. and b., the mode returns to the normal mode by that displaying the OSD picture with the buttons on the front panel and changing the setting of the power management function.

(4) Priority and status transition of the power save mode

(1) Priority of the power save mode

When the input states of the H and VSYNC change during the power operating, the priority to select each input of BNC/DSUB as follows.

Name	H	V	Priority
Normal operating (Power on)	O	O	1 (High)
STAND-BY	x	O	2
SUSPEND	O	x	3
COMPLETE-OFF	x	x	4 (Low)

(2) Change of the power save mode state

- a. When the input state changes, change the power save mode.
- b. When the BNC/DSUB inputs differ, the operation is executed with the side having an input with a high priority shown above.

Example: BNC side → SUSPEND The SUSPEND operation is executed.
 DSUB side → COMPLETE-OFF

3.6.6 Input connector automatic change-over function

W chassis has the both input systems of BNC and DSUB, and it is possible to use by changing over. The change-over function operates as follows.

(1) In the power supply ON

The sync. signal input of each terminal is checked in alternating with the order that obeyed setting description of connector, and the function works with the terminal side input is confirmed.

(2) In the signal change-over

The sync. signal input of each terminal is checked in alternating with starting from the terminal input before turning OFF, and the function works with the terminal side input is confirmed.

(3) In connector setting change-over with BNC / DSUB change-over buttons and OSD

The sync. signal input of each terminal is checked in alternating with starting from the terminal specified in connector setting, and the function works with the terminal side input is confirmed.

3.6.7 RS-232-C communication function

Communication is executed with the RS-232-C interface built into IC105. The operation conditions for communication are as follow.

Speed: 9600BPS
 Data length: 8-bit
 Parity: None
 Stop bit: 1-bit

Refer to the communication function specifications for details on the communication commands, etc.

3.6.8 DDC circuit

The DDC (Display Data Channel) functions are all realized by IC106.

IC106 is a nonvolatile memory exclusive for the 1k bit DDC, and supports DDC1 and DDC2B (note, the EDID file only).

The following data is memorized as the data for the DDC (EDID= Extended Display Identification). The data is written with an exclusive programmer through the DSUB15P connector.

00 ff ff ff ff ff ff 00	In the data of the left W : Week of manufacturing Y : Year of manufacturing S : Sam for checking
34 ac e0 40 00 00 00 00	
w Y 01 00 0e 26 1c 69	
e8 04 88 a0 57 4a 9b 26	
12 48 4c a4 67 80 01 01	
01 01 01 01 01 01 01 01	
01 01 01 01 01 01 1a 4f	
40 30 62 b0 32 40 40 c0	
13 00 7c 1d 11 00 00 1e	
86 3d 00 c0 51 00 30 40	
30 a0 13 00 64 1d 11 00	
00 1a 02 3a 00 c0 51 c0	
33 30 30 a0 13 00 7c 1d	
11 00 00 1a ea 24 00 60	
41 00 28 30 30 60 13 00	
7c 1d 11 00 00 1a 00 S	

4. Adjustment Procedure

4.1 Application

This describes the adjustment and overhaul for HR monitor of TFW9105Series.

4.2 Range of adjustment and overhaul

This describes the over all-adjustment. Adjust and confirm according to the needs of overhaul.
The applicable types are as follows.

Type	Mitsubishi model name	Rating label	Destination
1	TFW9105SKTK	TFW9105SKTK	for MELA
	TFW9105SKTKL-MG	TFW9105SKTKL	for MEU-GER
	TFW9105SKTKL-MK	TFW9105SKTKL	for MEU-UK
	TFW9105SKTKL-AS	TFW9105SKTKL	for ME-AUST
	TFW9105SKTKW-NL	TFW9105SKTKW	OWN brand for overseas (No logo)

4.3 Tester

- | | |
|-----------------------------------|--|
| 1) Signal generator A | equivalent to VG-812 made in Astrodesign |
| 2) Signal generator B | equivalent to VG-819 made in Astrodesign |
| 3) DC voltmeter | 150V class 0.5 or digital voltmeter |
| 4) E. H. T. meter | class 0.5 that is enable to measure 30KV |
| 5) Intensity meter | Minolta Color Analyzer: equivalent to CA-100 |
| 6) AC voltmeter | 150V/300V class 0.5 |
| 7) Oscilloscope | More than 400MHz band size |
| 8) Variable AC-voltage Power Unit | Variable range 0 to less than 260V |
| 9) Double Scale | For the measurement of the size and distortion |
| 10) Insulation resistance tester | KIKUSUI MODEL TOS8650 or equality |
| 11) Frequency counter | equivalent to IWATSU SC-7101 |
| 12) Ground continuity tester | Made in England; CLARE |

Adjustment procedure -----

4.4 Standard setting state

Adjust in the state of this clause unless otherwise specified.

4.4.1 Power supply voltage

Type	Power supply voltage	Reference
1	AC120V 60Hz	
	AC220V 50Hz	

4.4.2 Adjustment magnetic field

Type	Magnetic field	Reference
1	HORIZ. 0mT	For Northern hemisphere
	VERT. 0.04mT	
	HORIZ. 0mT	For Southern hemisphere
	VERT. -0.04mT	

4.5 Initial inspection

- 1) Assemble exactly.
- 2) The PCB has no crack and bad stain.
- 3) The PCB parts are not loose, tilted, and contacted with other parts.
- 4) Connectors do not have defective crimps and are inserted exactly.
- 5) The TR socket, the CRT socket, and the anode cap are fitted exactly.
- 6) Lead wire is not pressed by the edge of the plate.
- 7) Lead wire is not contacted with the high temperature parts of the R-METAL, the R-CEMENT, and the TR with the FIN.
- 8) Plates have no bending, bad stain, and bruises.
- 9) CRT has no bruises and breakage.
- 10) Each VR and the encoder rotate smoothly.
- 11) Each VR is sure to be set the following positions before powering on.

Initial setting for VR

PWB name	Number	Name (Symbol)	Initial adjustment position	Reference
PWB-MAIN	VR5F1	TCO	Center	
	VR601	HV-ADJ	Turn counterclockwise completely.	
		FOCUS 1	Center	FBT
		FOCUS 2	Center	FBT
		SCREEN	Turn counterclockwise completely.	FBT
PWB-DISPLAY	SW100	MODE SELECT SW	D-SUB side	Normal mode
		SYNC TERMINATION	Type 1 Down side	1kΩ
	VR700	DIS-ADJ	Center	
	VR400	V-LIN	Center	

**4.6 Initialize the adjustment data in the EEPROM (Note : This item is not need for general repair.)
[Use DDC tool (special supply)]**

Write by combining with the PC (IBM-PC compatible).

Confirm the clock built-in the PC is set correctly when preparing for writing.

As to details, refer to the exclusive software [N & R Chassis EEPROM EDITORS FOR WINDOWS (special supply)].

(1) Set SW100 on the PWB-DISPLAY to BNC side.

(2) Power on the monitor and confirm the aging raster appears.

(3) Initialize EEPROM with serial communication.

(4) Power off the monitor. Initialize the adjustment data in the EEPROM according to the following file.

The initialized adjustment data file name

Type	Initialize data file name	Revised data	Reference
1	W -MEL -1. DAT		

The data of the horizontal linearity in the initial data is as the following table.

H. frequency (kHz)	CS6	CS5	CS4	CS3	CS2	CS1	LIN1	LIN2	DATA (H)
30 - 32							ON	ON	
32 - 34				ON			ON	ON	
34 - 36		ON	ON	ON			ON	ON	
36 - 38	ON		ON		ON		ON		
38 - 40				ON	ON		ON		
40 - 42	ON	ON	ON	ON	ON		ON		
42 - 44			ON			ON	ON		
44 - 46	ON	ON	ON			ON		ON	
46 - 48	ON	ON	ON			ON		ON	
48 - 50			ON	ON		ON		ON	
50 - 52	ON		ON	ON		ON		ON	
52 - 54	ON	ON	ON	ON		ON		ON	
54 - 56	ON				ON	ON		ON	
56 - 58	ON				ON	ON		ON	
58 - 60	ON	ON			ON	ON		ON	
60 - 62	ON	ON			ON	ON		ON	
62 - 64	ON	ON			ON	ON		ON	
64 - 66			ON		ON	ON		ON	
66 - 68	ON		ON		ON	ON		ON	
68 - 70		ON	ON		ON	ON		ON	
70 - 72				ON	ON	ON		ON	
72 - 74		ON		ON	ON	ON		ON	
74 - 76		ON		ON	ON	ON			
76 - 78	ON	ON		ON	ON	ON			
78 - 80	ON	ON		ON	ON	ON			
80 - 82	ON		ON	ON	ON	ON			
82 - 84	ON		ON	ON	ON	ON			
84 - 86	ON		ON	ON	ON	ON			
86 - 88		ON	ON	ON	ON	ON			
88 - 90		ON	ON	ON	ON	ON			
90 - 92		ON	ON	ON	ON	ON			
92 - 95	ON	ON	ON	ON	ON	ON			

* When CS or LIN-COIL is ON, the corresponding bit is set to "BLANK"

* When OFF, the corresponding bit is set to "ON".

Adjustment procedure

4.7 Control names and functions

4.7.1 Structure of front control panel

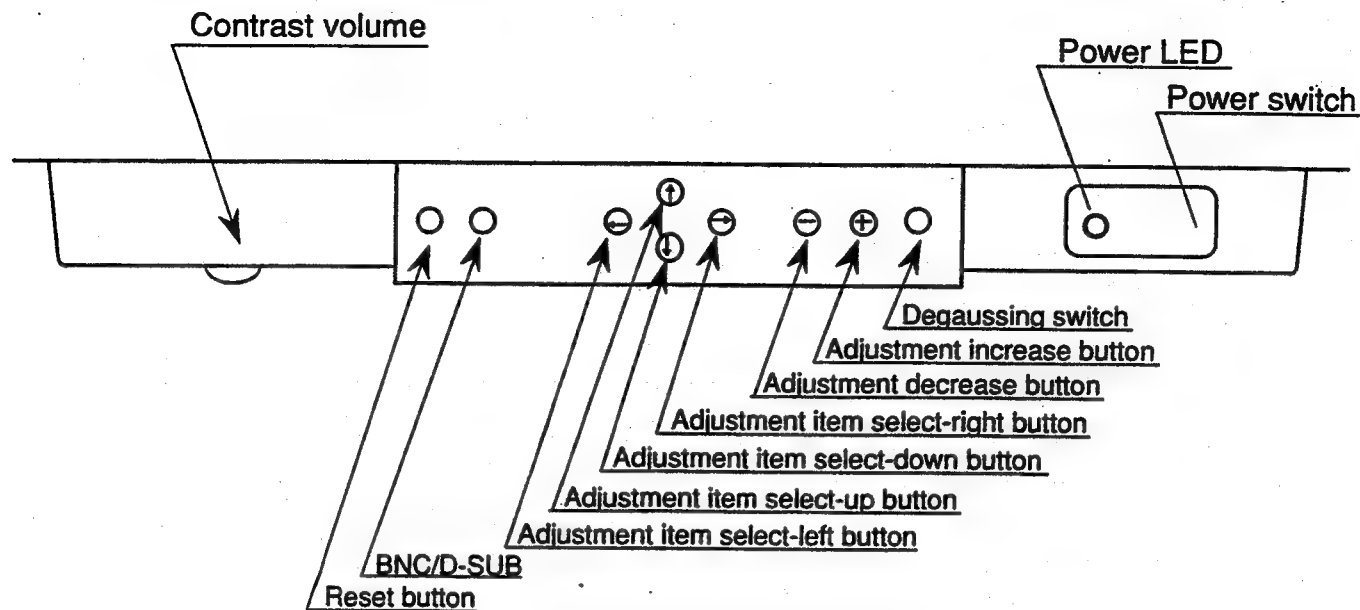


Figure 6. Front control panel (Standard bezel)

4.7.2 Structure of rear input connector

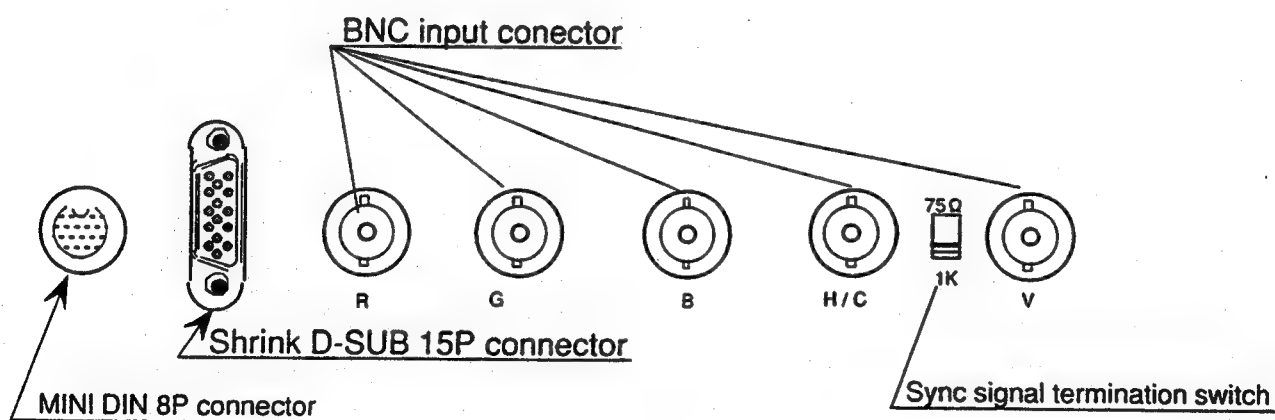


Figure 7. Rear input connector (standard)

4.7.3 Adjustment items OSD display matrix

[illegible]

Adjustment procedure -----

4.8 Adjustment

4.8.1 How to change over to the Factory mode

(1) Change over with switch (Factory mode 2)

Power SW100 on the PWB-DISPLAY ON on the D-SUB side (NORMAL MODE), and switch to the BNC side (FACTORY MODE).

(2) Change over with the switch on the front panel (Factory mode 1)

- A) Press the degaussing switch ON.**
- B) Press (<) and (+) simultaneously after having executed A) immediately.**
- C) Confirm LEVEL-10 is displayed on the OSD and set to LEVEL-15 with (+) key.**
- D) Press (<) and (>) simultaneously.**

The factory adjustment mode is set by the above steps. In this case, it is impossible to adjust +B, and H-DRIVE.

4.8.2 Preadjustment

This describes both preadjustment and general adjustment, but adjust with general adjustment usually.

After powering on, then adjust the "SCREEN" of focus pack to be the suitable brightness, and adjust the "FOCUS 1, 2" of the focus pack to clear the both sides of the picture.

4.8.2.1 Horizontal free running frequency adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	H. free running frequency	Free running	No. A : 30K / 70Hz, No. B, C, E, F
		SW100, Center	Full white

- (1) Input the following timing No. A.
- (2) Set the SW100 on the PWB-DISPLAY to the center and to be free running.
(The OSD screen adjustment item selects the HOSC LOW.)
- (3) Adjust the horizontal free running frequency as follows by the (+) and the (-) buttons
(adjustment the increase and the decrease buttons).

30KHz $\pm$ 0.2KHz (   Adjust the flow of the picture to the left figure.)

- (4) Input the timing No. B, C, E, and F and select each adjustment item that is equivalent to the following table, and then adjust the each frequency.

Timing number	OSD adjustment item	Free running frequency
A	HOSC-L	30.0KHz $\pm$ 0.2KHz
B	HOSC-M1	56.5KHz $\pm$ 0.2KHz
C	HOSC-M2	84.0KHz $\pm$ 0.2KHz
E	HOSC-H1	88.0KHz $\pm$ 0.2KHz
F	HOSC-H2	93.75KHz $\pm$ 0.2KHz

4.8.2.2 High voltage preadjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	High voltage preadjustment	Normal	No. F : 93K / 75Hz, Input sync. signal only
		SW100, D-sub side	

- (1) Power off the monitor and on after connecting to the CRT anode.
- (2) Adjust the voltage to 27.0KV $\pm$ 0.3KV with VR601 (HV-ADJ) on the PCB-MAIN.

4.8.2.3 Voltage setting for the high voltage protector working

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Voltage setting for the high voltage protector working	Normal	No. F : 93K / 75Hz, Input sync. signal only
		SW100, D-sub side	

- (1) Connect the E. H. T. meter to TP-XP on the PWB-MAIN.
- (2) Confirm that the voltage of TP-XP is 17V $\pm$ 1V.
- (3) Apply the voltage (21.5 $\pm$ 0.2V) from the outside of the monitor to TP-XP, and confirm that the high voltage protector working.
- (4) After confirming the working, repeat powering ON-OFF (every 5 sec.) and confirm that the high voltage protector not working when checking.

Preadjustment

4.8.2.4 +B adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	+B adjustment	Factory 2	No. A : 30K / 70Hz, No. F
		SW100, BNC side	Full white

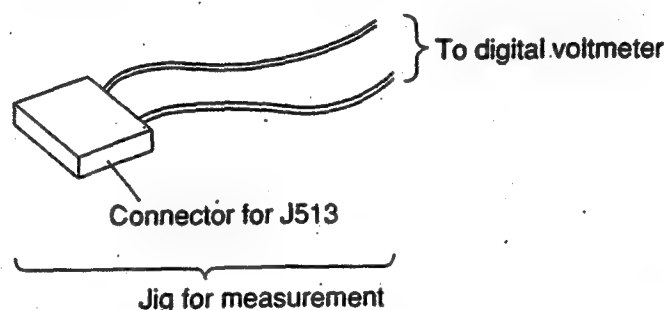
- (1) Set the SW100 on the PWB-DISPLAY to the BNC side.(FACTORY MODE)
- (2) Input the following sync signal and adjust the picture size as the bezel becomes full.

Timing number	Timing	OSD adjustment item
A	30.0kHz	+BVOLTAGE-LOW
F	93.75kHz	+BVOLTAGE-H1

4.8.2.5 H-DRIVE adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	H-DRIVE	Factory 2	No. A : 30K / 70Hz, No. B, D, F
		SW100, BNC side	Full white

- (1) Measure the voltage between pins J513.



- (2) Input the timing No. A. Set the OSD screen to the H-DRIVE-N-LOW and then adjust the voltage to the minimum by pressing the (+) and the (-) buttons on the monitor. (Refer to the note.)
- (3) Set the OSD screen to the H-DRIVE-W-LOW with the (▽) button and then adjust the voltage to the minimum by the (+) and the (-) buttons on the monitor while looking at the digital voltmeter. (Refer to the note.)
- (4) Set the OSD screen to the H-DRIVE-N-LOW and then readjust the voltage to the minimum by the (+) and the (-) buttons on the monitor while looking the digital voltmeter.
- (5) Input the timing No. B, D and F. Select the adjustment items that are equivalent to each value of the following table, and then adjust each voltage to the minimum.

(Note : In case the step (2) is impossible to adjust the voltage to the minimum, execute the step (3) first and then the step (2) once again.)

Timing number	Timing	OSD adjustment item
A	30.0kHz	HDRIVE-N-LOW, HDRIVE-W-LOW
B	56.5kHz	HDRIVE-N-M1, HDRIVE-W-M1
D	86.0kHz	HDRIVE-N-M2, HDRIVE-W-M2
F	93.75kHz	HDRIVE-N-H1, HDRIVE-W-H1

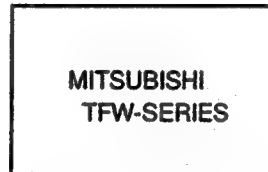
4.8.2.6 Shock test

- (1) Display "COLOR BAR" by signal generator A.
- (2) Confirm that the image is normal when giving a slight shock to the monitor.

4.8.2.7 Preadjustment before aging

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	H-DRIVE	Factory 2	No signal
		SW100, BNC side	Automatic display

- (1) Display the full white by the signal generator A.
- (2) Confirm that the image of each channel R, G, B comes.
- (3) Confirm that it is enable to control the H-CENT, picture position, picture size, PCC, and balance and adjust.
- (4) Confirm that the power management on the OSD is OFF.
- (5) Set the SW100 on the PWB-DISPLAY to the BNC side.(FACTORY MODE)
- (6) After disconnecting the signal and confirming that the following picture is displayed with the OSD, adjust the luminance of the picture to be suitable for ITC by the screen VR and continue the heat running for 30 minutes or more.



OSD screen on aging

General adjustment

4.8.3 General adjustment

This describes both preadjustment and general adjustment, but adjust with general adjustment usually.

4.8.3.1 Horizontal free running frequency adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	H. free running frequency	Free running	No. A : 30K / 70Hz, No. B, C, E, F
		SW100, Center	Full white

- (1) Input the timing No. A.
- (2) Set SW100 on the PWB-DISPLAY to the center and to be free running.
(The adjustment item of the OSD screen selects the HOSC-LOW.)
- (3) Adjust the horizontal free running frequency as follows by the (+) and the (-) buttons (adjustment the increase and the decrease buttons).

30KHz $\pm$ 0.2KHz ( Adjust the flow of the picture to the left figure.)

- (4) Input the timing No. B, C, E, and F and select each adjustment item that is equivalent to the table, and then adjust the each frequency.

Timing number	OSD adjustment item	Free run frequency
A	HOSC-L	30.0KHz $\pm$ 0.2KHz
B	HOSC-M1	56.5KHz $\pm$ 0.2KHz
C	HOSC-M2	84.0KHz $\pm$ 0.2KHz
E	HOSC-H1	88.0KHz $\pm$ 0.2KHz
F	HOSC-H2	93.75KHz $\pm$ 0.2KHz

4.8.3.2 High voltage preadjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	High voltage preadjustment	Normal	No. F : 93K / 75Hz, Input sync. signal only
		SW100, D-sub side	

- (1) Power off the monitor and on after connecting to the CRT anode.
- (2) Turn the screen VR on FBT counterclockwise completely.
- (3) Power on the monitor.
- (4) Adjust the voltage to 27.0KV $\pm$ 0.3KV with VR601 (HV-ADJ) on the PWB-MAIN.

4.8.3.3 Voltage setting for the high voltage protector working

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Voltage setting for the high voltage protector working	Normal	No. F : 93K / 75Hz, Input sync. signal only
		SW100, D-sub side	

- (1) Connect the E. H. T. meter to TP-XP on the PWB-MAIN.
- (2) Confirm that the voltage of TP-XP is 17V $\pm$ 1V.
- (3) Apply the voltage (21.5 $\pm$ 0.2V) from the outside of the monitor to TP-XP, and confirm that the high voltage protector working.
- (4) After confirming the working, repeat powering ON-OFF (every 5 sec.) and confirm that the high voltage protector not working when checking.

4.8.3.4 SCREEN voltage adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	SCREEN voltage	Normal	No. F : 93.75K / 70Hz, Sync. signal only
		SW100, D-sub side	

- (1) Connect E. H. T. meter to TP-SC terminal on PWB-CRT.
- (2) Set the voltage to $700 \pm 5V$ with the screen VR on FBT.

4.8.3.5 +B adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	+B adjustment	Factory 2	No. A : 30K / 70Hz, No. F
		SW100, BNC side	Full white

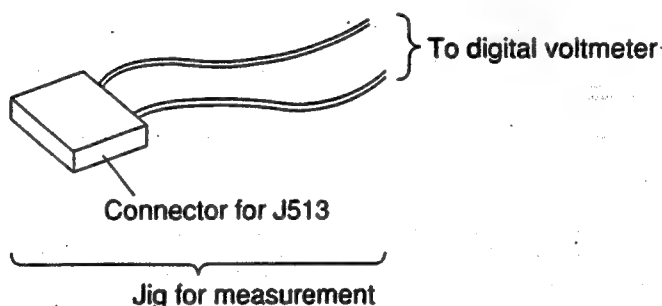
- (1) Set the SW100 on the PWB-DISPLAY to the BNC side.(FACTORY MODE)
- (2) Input the following sync signal and adjust the picture size as the bezel becomes full.

Timing number	Timing	OSD adjustment item
A	30.0kHz	+BVOLTAGE-LOW
F	93.75kHz	+BVOLTAGE-H1

4.8.3.6 H-DRIVE adjustment (Set AC line input to 240V.)

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	H-DRIVE	Factory 2	No. A : 30K / 70Hz, No. B, D, F
		SW100, BNC side	Full white

- (1) Measure the voltage between pins J513.



- (2) Input the timing No. A. Set the OSD screen to the H-DRIVE-N-LOW and then adjust the voltage to the minimum by pressing the (+) and the (-) buttons on the monitor.
- (3) Set the OSD screen to the H-DRIVE-W-LOW with the (∇) button and then adjust the voltage to the minimum by the (+) and the (-) buttons on the monitor while looking at the digital voltmeter. (Refer to the note.)
- (4) Set the OSD screen to the H-DRIVE-N-LOW and then readjust the voltage to the minimum by the (+) and the (-) buttons on the monitor while looking the digital voltmeter.
- (5) Input the timing No. B, D and F. Select the adjustment items that are equivalent to each value in the following table, and then adjust each voltage to the minimum.

(Note : In case the step (2) is impossible to adjust the voltage to the minimum, execute the step (3) first and then the step (2) once again.)

General adjustment -----

Timing number	Timing	OSD adjustment item
A	30.0kHz	HDRIVE-N-LOW, HDRIVE-W-LOW
B	56.5kHz	HDRIVE-N-M1, HDRIVE-W-M1
D	86.0kHz	HDRIVE-N-M2, HDRIVE-W-M2
F	93.75kHz	HDRIVE-N-H1, HDRIVE-W-H1

4.8.4 Picture size, position and distortion adjustment

Adjust in the FACTORY mode.

Adjust picture size to the value shown in the adjustment value list.

4.8.4.1 Picture tilt adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Picture tilt	Factory 2	No. 6 : 93.75K / 75Hz
		SW100, BNC side	Crosshatch

Set the OSD screen to the ROTATION with the SELECT buttons on the front panel and adjust the raster tilt to the horizontal to the CRT face with the (+) and the (-) ADJUST buttons.

4.8.4.2 Raster position adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Raster position	Factory 2	All of timing (preset, user and initial)
		SW100, BNC side	Crosshatch

(1) Input the all adjustment timing of the pattern with the crosshatch. Set the OSD screen to the H-POSITION with the SELECT buttons on the front panel, and adjust the horizontal raster position to the center of the picture with the (+) and the (-) ADJUST buttons.

In this case adjust the raster size to $390 \pm 10 \text{mm}$ and $|L1 - L2| \leq 3 \text{mm}$.

(2) For the timing less than Fh: 40kHz, adjust the value to +40 count.

4.8.4.3 Vertical linearity

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Vertical linearity	Factory 2*	No. 7 : 31.5K / 60Hz
		SW100, BNC side	Crosshatch

*It is also possible in the normal mode.

(1) Adjust the vertical size to 285 ± 4 and the vertical position to be almost the center.

(2) Adjust the vertical linearity so that the sizes of the top (the second from the top) and the bottom (the lower most) of the picture are equal with VR400.

4.8.4.4 Left and right distortion, size and position in picture adjustment (All mode)

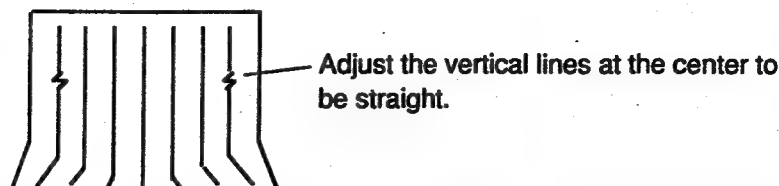
Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Left and right distortion, size and position	Factory 2	No. 6 : 93.75K / 75Hz for step (1) only, Step (2) to (5) are all of timing*
		SW100, BNC side	Reverse cross

*Preset timing only applies to the left and right distortion.

All of the preset, user and initial timing apply to picture size and picture position.

(1) VR700 adjustment

- A) Display the reverse cross of timing No. 6.
- B) Set the BOTTOM-PCC to MAX.
- C) Adjust the vertical line of the image to be straight.



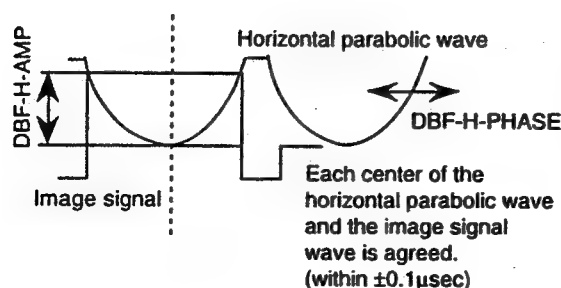
- (2) Set the OSD screen to the PCC-AMP, PCC-PHASE, PCC-CENTER, PCC-BALANCE, PCC-BOTTOM, PCC-SINE and PCC-CORNER with the SELECT buttons on the front panel, and adjust the lines on both sides of the picture to be straight with the (+) and the (-) ADJUST buttons.
- (3) If the distortion on the left and right sides of the picture differs, set the OSD screen to the PIN-BALANCE, the KEY-BALANCE, with the SELECT buttons on the front panel, and adjust so that the left and right sides are balanced visually with the (+) and (-) ADJUST buttons.
- (4) Set the OSD screen to the H-PHASE, with the SELECT buttons on the front panel, and adjust the horizontal raster position to the center of the picture with the (+) and (-) ADJUST buttons.
- (5) Set the OSD screen to the H-SIZE, with the SELECT buttons on the front panel, and adjust the horizontal raster size to the value shown in the adjustment value list with the (+) and (-) ADJUST buttons.

4.8.4.5 DBF amplitude / phase adjustment (NOTE : This item is not needed for general repair.)

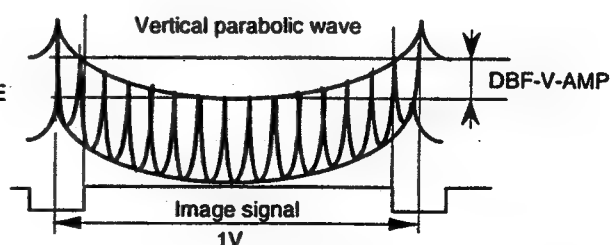
Status indicator	Function	Adjustment mode / set	Input signal / pattern
	DBF amplitude /	Factory 2	Each timing
	Phase	SW100, BNC side	Full white

* Initial data applies to DBF-H-AMP and DBF-H-PHASE only.

- (1) Connect the oscilloscope to the TP-DBF and the R video signal output on the PWB-MAIN.
- (2) Set the SW100 on the PWB-DISPLAY to the BNC side (FACTORY-MODE).
- (3) Set the OSD screen to the DBF-H-AMP with the SELECT buttons on the front panel, and adjust the horizontal parabola wave amplitude to the value shown in the adjustment value list with the (+) and the (-) ADJUST buttons.
- (4) Set the OSD screen to the DBF-V-AMP with the SELECT buttons on the front panel, and adjust the vertical parabola wave amplitude to the value shown in the adjustment value list with the (+) and the (-) ADJUST buttons.
- (5) Set the OSD screen to the DBF-H-PHASE with the SELECT buttons on the front panel, and adjust the phase of the horizontal parabola wave on the image signal as follows with the (+) and the (-) ADJUST buttons.



V • DBF amplitude adjustment



DBF-H-AMP/PHASE adjustment

General adjustment -----

4.8.5 Cut off adjustment

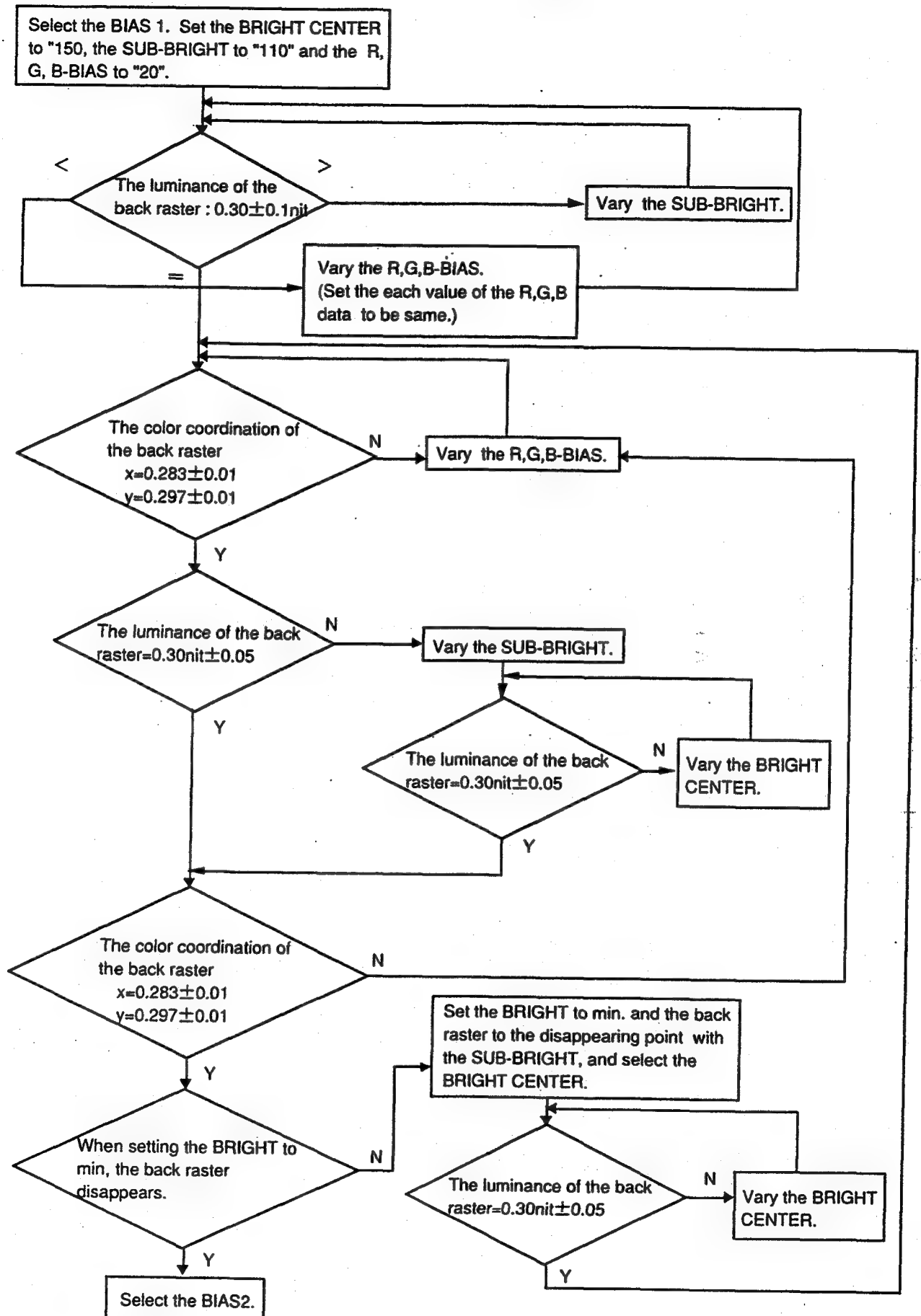
Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Cut off	Factory 2	No. 6 : 93.75K / 75Hz
		SW100, BNC side	Sync signal only

- (1) Input the timing No. 6. (R, G, B, OFF)
- (2) Select the BIAS 1 and set the BRIGHT-CENTER to "150", the SUB-BRIGHT to "110" and R, G, B-BIAS to "20".
- (3) Adjust the luminance of the back raster to $0.25 \pm 0.1 \text{cd/m}^2$.
 - A) In case the luminance is 0.25cd/m^2 or more, adjust the SUB-BRIGHT.
 - B) In case the luminance is less than 0.25cd/m^2 , adjust the R, G, B-BIAS.
 In this case, adjust the data of the R, G, B-BIAS to be the same value.
- (4) Adjust the color coordination to the value in the following table with the two colors except the base color.
- (5) Adjust the luminance of the back raster to $0.30 \pm 0.05 \text{cd/m}^2$ with the SUB-BRIGHT.
When it is adjustment impossibility only with the SUB-BRIGHT, adjust the BRIGHT CENTER.
- (6) In case the color coordination of the back raster is different from the above value, repeat the steps (4) and (5).
- (7) Confirm the back raster disappears when setting the BRIGHT to min..
(In case of not disappearing, set the BRIGHT to min. and the back raster to the disappearing point with the SUB-BRIGHT. Secondly change the BRIGHT CENTER and adjust the luminance of the back raster to $0.30 \pm 0.05 \text{cd/m}^2$, readjust from the step (3).)
- (8) Select the BIAS 2 and change the BIAS data of two colors except the base color, and adjust the color coordination of the back raster to the value in the following table.
- (9) Select the BIAS 3 and change the BIAS data of two colors except the base color, and adjust the color coordination of the back raster to the value in the following table.
- (10) Adjust the BRIGHT MAX to $3 \text{cd/m}^2 \pm 0.1 \text{cd/m}^2$.

Type	Adjustment item		Color 1	Color 2	Color 3
1	Color coordination	x	0.283 ± 0.01	0.316 ± 0.01	0.345 ± 0.01
		y	0.297 ± 0.01	0.326 ± 0.01	0.359 ± 0.01

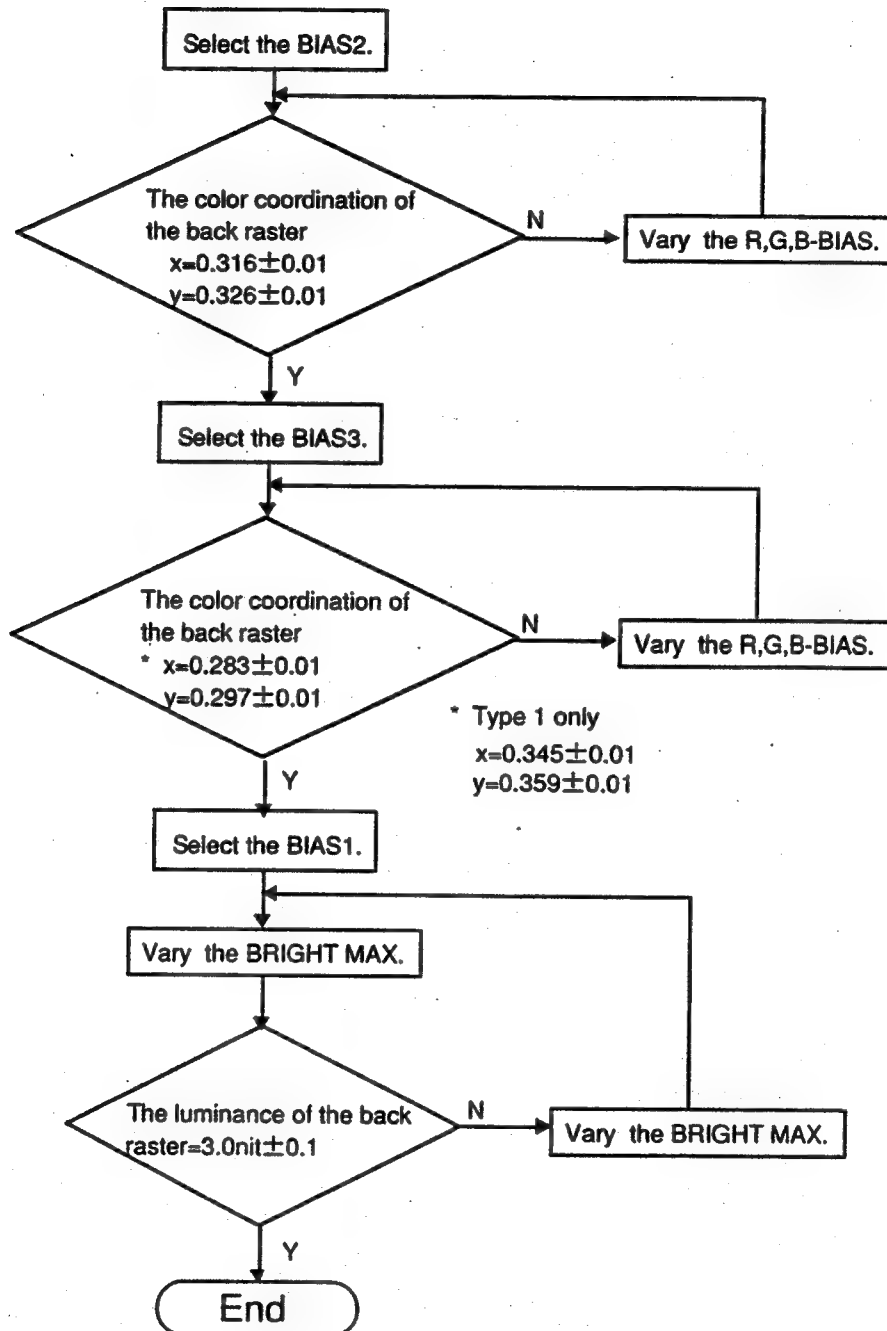
* Attach the flow chart on the next page.

Cut off adjustment procedure



To be continued to the next page.

To be continued from the previous page.



4.8.6 RGB drive adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	RGB drive	Factory 2	No. 6 : 93.75K / 75Hz
		SW100, BNC side	Full white and Window

4.8.6.1 R, G, B drive signal adjustment (Adjustment for COLOR-1)

(1) Input the timing No.6.

WINDOW picture (Input amplitude = 0.7Vp-p)

(2) Set the OSD screen to the CONTRAST with the SELECT buttons on the front panel, and adjust to MAX with the (+) ADJUST buttons.

(3) Set the OSD screen to the BRIGHT with the SELECT buttons on the front panel, and adjust the data to the center value by pressing the (+) and the (-) ADJUST buttons simultaneously.

(4) Set the output of the signal generator A to the window pattern (Approx. 80 mm square at the center of the CRT picture), input G signal only.

(5) Set the OSD screen to G of the COLOR-1 with the SELECT buttons on the front panel, and adjust the luminance to the value in the following table with the (+) and the (-) ADJUST buttons.

(6) Input BLUE, RED and GREEN signals and select B and R of the COLOR-1, adjust the color coordination to the value in the following table.

(7) When setting the CONTRAST to 30cd/m², the value for the change of the color coordination is within ± 0.015 for both x and y.

* Adjust the value of the COLOR-2 and COLOR-3 to the value in the following table with the same procedure.

Note) Make sure to set the OSD screen to COLOR 1 after adjusting COLOR.

(The preset of COLOR is to be the COLOR-1 of the factory preset by executing this operation.)

	Color		1	2	3	Reference
Type 1	G-WINDOW		78.0	68.0	58.0	(Reference value)
	W-WINDOW color coordination	x	0.283	0.316	0.345	± 0.005
		y	0.297	0.326	0.359	± 0.005
	Full white luminance (cd/m ²)		108 $\pm$ 3	90 or more	80 or more	

4.8.6.2 ABL adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	ABL	Factory 2	No. 6 : 93.75K / 75Hz
			Full white

(1) Input the timing No. 6.

(Full white picture input amplitude = 0.7Vp-p)

(2) Set the OSD screen to the ABL-ADJUST and adjust the value to 108cd/m² $\pm$ 3 in the COLOR-1. In this case, the picture size is set to the approximate value of H position in the adjustment value list.

General adjustment -----

4.8.7 Purity adjustment (Execute when changing CRT.)

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Purity	Factory 2	No. A : 30.10K / 70Hz
		SW100, BNC side	Full red

(1) In case NG occurs at a direction when checking the magnetic tolerance (45 degrees turn), adjust purity within the following range. Make sure to adjust purity in the FACTORY mode and check after degaussing with the hand demagnetizer.*

(2) In case check in the above step (1) is OK, check at all of the other directions. Individual adjustment is possible in each checking at the swivel angle is -45, 0, and 45 degrees and at the magnetic field of the tube axis $B_z = \pm 0.04\text{mT}$.

Confirm the uniformity of luminance in $B_z = 0\text{mT}$ is 80% or more.

(3) Confirm picture performance of mis-convergence, distortion, etc. after finishing the above step (2).

Note : *; Refer to "4.14 How to degauss with hand demagnetizer" on page 4-30.

4.8.8 Focus adjustment

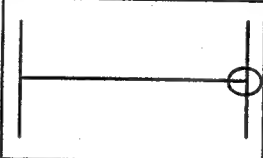
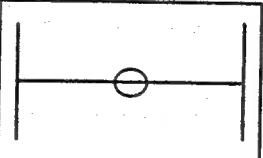
Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Focus	Factory 2	No. 6 : 93.75K / 75Hz
		SW100, BNC side	Character H, Crosshatch

As to the steps from (1) to (2), input the character H pattern of the timing No. 6 and the crosshatch pattern.

As to the step (3), input the character H of all of other preset timings and the crosshatch pattern.

Static focus adjustment

(1) Display the crosshatch pattern of three colors and adjust the focus as the following steps.

	Normal or Reverse display	Parts to fit
Vertical line	Reverse display	 Set the focus to FOCUS JUST at the center of the vertical line on the right (○ seal part).
Horizontal line	Normal display	 Set the focus to FOCUS JUST at the center of the picture (○ seal part).

(2) When the DBF voltage is short or over, set the OSD screen to DBFH-AMP and DBFV-AMP with the SELECT buttons on the front panel, and adjust the AMP with the (+) and the (-) ADJUST buttons.

Adjust the focuses to be uniformed on the screen by repeating the step (1) to satisfy the following judgement conditions.

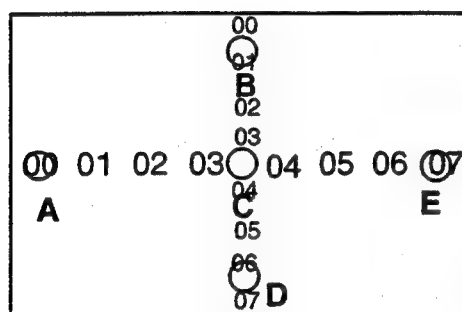
(3) As to all of other preset timings, when the DBF voltage is short or over, set the OSD screen to DBFH-AMP and DBFV-AMP with the SELECT buttons on the front panel, and adjust the focuses with the (+) and the (-) ADJUST buttons.

Focus judgement depends on the following.

Timing	Judgement pattern Note 1: , Note 2:
No. 6 : 1600 x 1200 93.75K / 75Hz	Judge with pattern A, and judge finally with pattern B as to the doubtful judgement.
Others	Judge with pattern A.

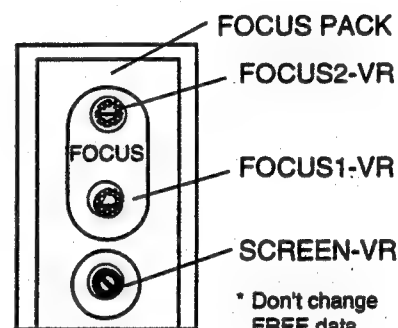
Note1 : Pattern A : Font 7 x 9 Cell 10 x 11 Character H
Pattern B : Font 7 x 9 Cell 15 x 17 Character H

Note 2 : Focus setting; Normal display is judged by the ratio of core : halo.
Reverse display is judged not by relative comparison with the other part on the screen but by whether the character H in the part is formed to be possible to judge as character H or not.



Focus attention point

* The numbers are the address of the DBFH-FREE and the DBFV-FREE.



Focus pack

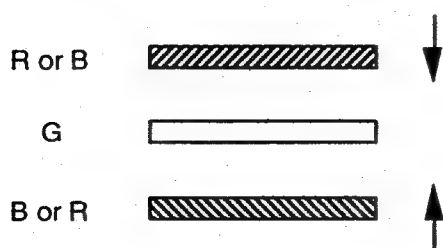
* Don't change FREE data.

4.8.9 Convergence adjustment (Execute when changing CRT.)

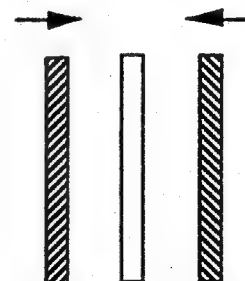
Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Convergence	Normal	No. 6 : 93.75K / 75Hz
		SW100, D-sub	Crosshatch

Adjust the following in the NORMAL mode.

- (1) Set the OSD screen to the H-STATIC with the SELECT buttons on the front panel.
- (2) Press the (+) and the (-) ADJUST buttons simultaneously. (In this case confirm that the data of the H-STATIC is displayed the level 50% on the screen.)
- (3) Adjust the horizontal and the vertical convergence with the CP ring (Magnet 4P and 6P) on the CRT at need. Adjust the center of the picture mainly.
Do not adjust the purity (2P) magnet.



The vertical convergence



The horizontal convergence

General adjustment

<CP-ASSY structure and how to adjust>

C and P indicate the initials of Convergence and Purity.

Magnet ring	Action
Purity (2P)	Deflect the electron beams (R • G • B) to X and Y directions and pass the beams to the exposure point.
4P magnet	Deflect the side beams (R • B) to the different direction.
6P magnet	Deflect the side beams (R • B) to the same direction as the center beam (G).

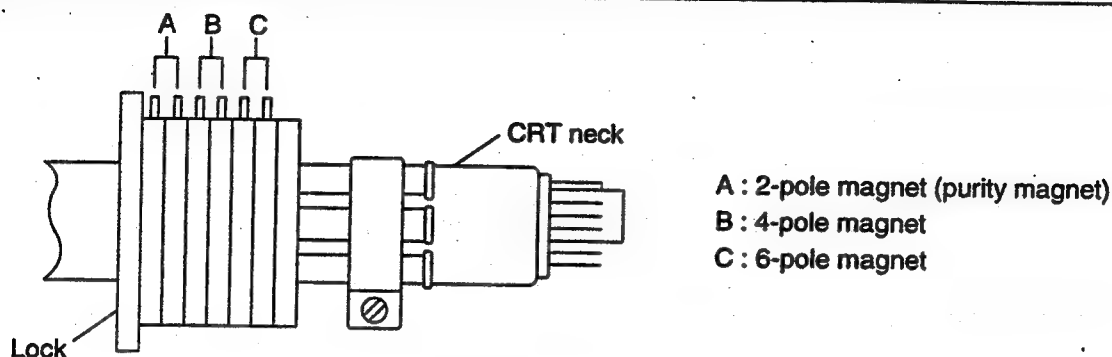
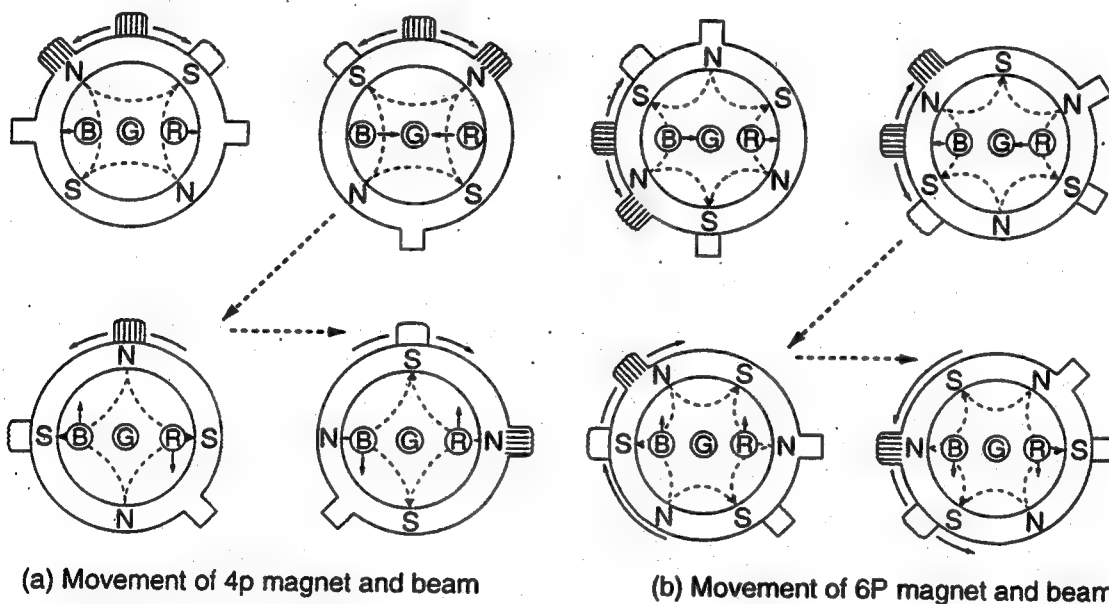


Figure. CP-Assy

Adjust to combine red with blue by two of 4P magnets and red and blue with green by two of 6P magnets.



4.8.10TCO adjustment

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	TCO	Factory 2*	No. 6 : 93.75K / 75Hz
		SW100, BNC side	Character H

*It is also possible in the normal mode.

<Cancel voltage adjustment>

- (1) Input the character H pattern of the timing No. 6. Select the adjustment item "CONTRAST" with the SELECT buttons on the front panel, and set the contrast data to 50% with the ADJUST buttons.

(2) Set the TCO disk probe*1 as follows.

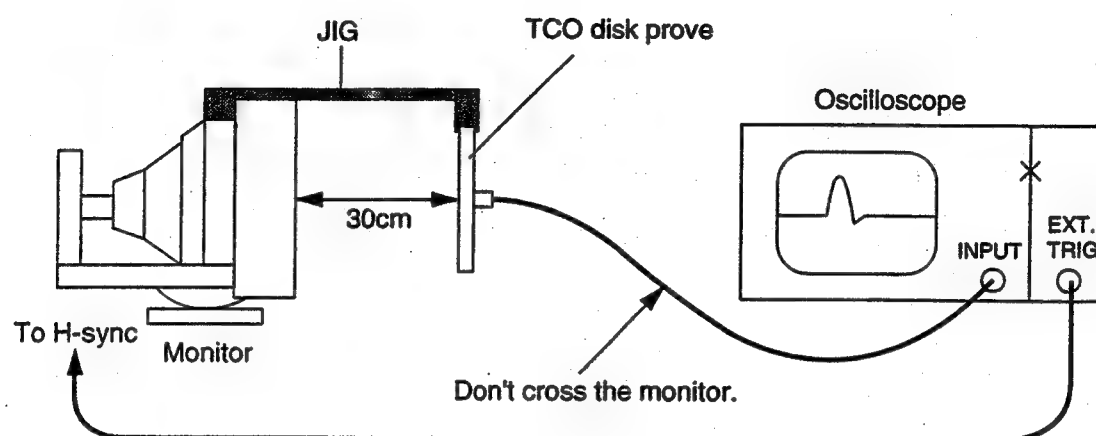
Measure the signal of the TCO disk probe with the oscilloscope (1mV/div).

*1 TCO disk probe : Temporary electric field instrument with disk type

Note : Set the oscilloscope to the external trigger mode and input H-sync of the monitor to trigger input.

Note : Keep the monitor for measuring 2m away from the other monitor.

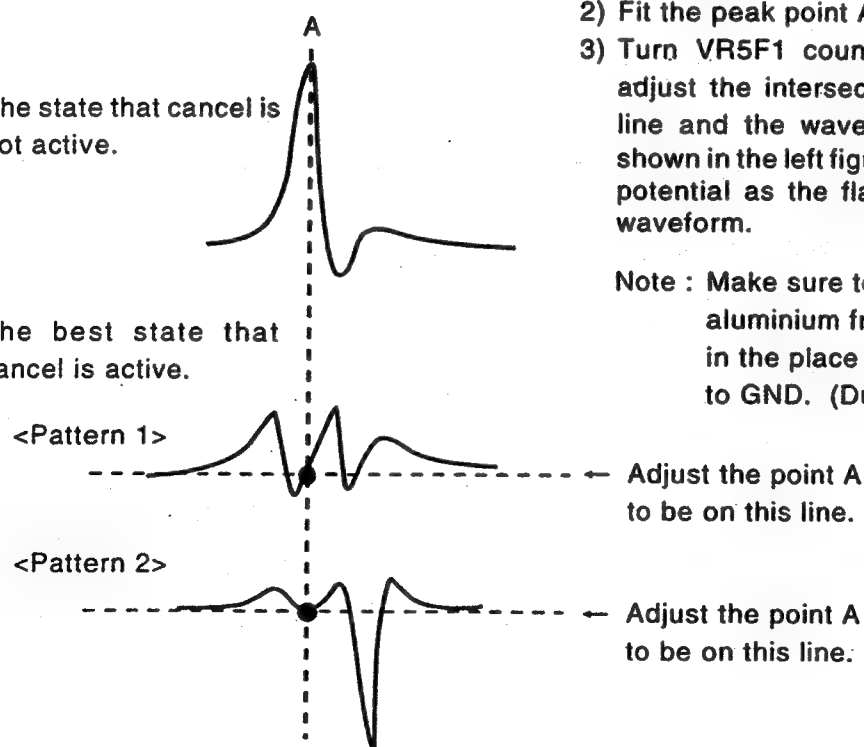
(3) Adjust VR5F1 on the PWB-MAIN and set the voltage of waveform (p-p value) to the minimum.



- 1) Turn VR5F1 clockwise completely and make the state that cancel is not active.
- 2) Fit the peak point A to the vertical line.
- 3) Turn VR5F1 counterclockwise slowly and adjust the intersection point of the vertical line and the waveform (The point with ● shown in the left figure) to the same electrical potential as the flat part on the left of the waveform.

The state that cancel is not active.

The best state that cancel is active.



Note : Make sure to connect the aluminium frame of the chamber in the place for TCO adjustment to GND. (Due to noise occurring)

General adjustment -----

4.8.11 Factory preset

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Factory preset	Normal	Each timing
		SW100, D-SUB side	

- (1) Set the selection of the color coordination to COLOR-1 for all of the adjustment timings.
- (2) Set the SW100 on the PWB-DISPLAY to the D-SUB side (NORMAL MODE).
- (3) Select the CONTRAST and the BRIGHT with the SELECT button on the front control panel. Press the (+) and the (-) ADJUST buttons simultaneously and adjust the CONTRAST to the MAX and the BRIGHT to the CENTER.
- (4) Select the ROTATION with the SELECT button on the front control panel. Press the (+) and the (-) ADJUST buttons simultaneously and adjust to the CENTER.
- (5) Select the H-STATIC with the SELECT button on the front control panel. Press the (+) and the (-) ADJUST buttons simultaneously and adjust to the CENTER.
- (6) Select the PURITY with the SELECT button on the front control panel. Press the (+) and the (-) ADJUST buttons simultaneously and adjust to the CENTER.
- (7) Set the adjustment items except the above items to contents in the table shown below in the factory mode.

Adjustment item	Setting contents	Setting classification	
		by timing	Common
CONNECTOR	D-SUB side		○
POWER-SAVE	ON		○
MOIRE-CLEAR	OFF	○	
MOIRE-CLEAR LEVEL	255	○	
CLAMP-PULSE	BACK	○	

- (8) Set the power switch to OFF.
- (9) Set the SYNC TERMINATION switch on the rear input connector as follows.
Type 1; Set to 1kΩ.

4.9 Inspection after adjustment

4.9.1 Electrical capability

Inspect the electrical capability after setting the CONTRAST to MAX and the BRIGHT to the CENTER by pressing the (+) and the (-) ADJUST buttons simultaneously.

4.9.1.1 Degaussing coil operating

Confirm that the picture vibrates and then stops when setting the degaussing switch to ON on the front panel.

4.9.1.2 POWER SAVE function operating

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Power save function operating	Normal	No. 6 : 93.75K / 75Hz
		SW100, D-sub	Full white

Input the full white signal of the timing No. 6 by disconnecting the R, G, B signals.

Set the OSD screen to the POWER SAVE with the SELECT buttons on the front panel and set the POWER SAVE function to ON with the (+) ADJUST button.

(1)STAND BY MODE

- (A) Disconnect the H-SYNC signal. After 10 seconds, display the POWER SAVE on the screen for 2 seconds and confirm that the high voltage goes down.

Confirm that the POWER LED blinks at 0.5-second intervals and that the power consumption is 110W or less.

- (B) Confirm that the picture comes again as soon as inputting the H-SYNC.

(2)SUSPEND MODE

- (A) Disconnect the V-SYNC signal. After 10 seconds, display the POWER SAVE on the screen for 2 seconds and confirm that the high voltage goes down.

Confirm that the POWER LED blinks at 2-second intervals after the high voltage goes down. Confirm that the consumption power is 8.5W or more 15W or less.

- (B) Confirm that the picture comes again within 3 seconds after inputting the V-SYNC and that the high voltage restores.

(3)COMPLETE MODE

- (A) Disconnect the H-SYNC and V-SYNC signal simultaneously. After 10 seconds, display the POWER SAVE on the screen for 2 seconds and confirm that the high voltage goes down.

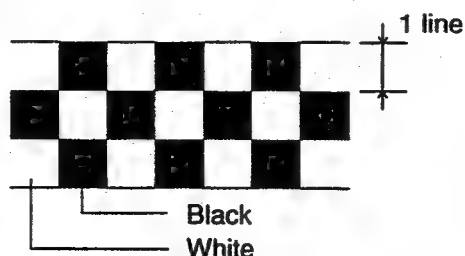
Confirm that the POWER LED powers on for 3 seconds and off for a second after the high voltage goes down. Confirm that the consumption power is 6W or more 8W or less.

- (B) Confirm that the picture comes again and brightens presently within 12 seconds after inputting the H-SYNC and V-SYNC and that the high voltage restores.

4.9.1.3 Confirm the MOIRE-CLEAR function

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	MOIRE-CLEAR function	Normal	No. 4 : 68.7K / 75.1Hz
		SW100, D-sub	MOIRE pattern removed one dot alternately

Input the timing of MOIRE pattern removed one dot alternately (checks) to confirm the auto calibration. Set the MOIRE-CLEAR function to ON and confirm that the picture vibrates to the horizontal.



Adjustment procedure

4.9.1.4 Confirm the PURITY function

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Purity	Normal	No. 6 : 93.75K / 75Hz
		SW100, D-sub side	Full white

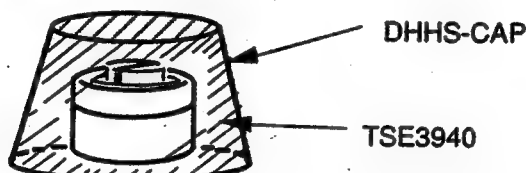
After inputting the full white signal of the timing No. 6, set the OSD screen to the PURITY with the SELECT buttons on the front panel. Confirm that the color coordination at the peripheral of the picture changes by pressing the (+) and the (-) ADJUST buttons, and that the color coordination goes back to the center by pressing the buttons simultaneously.

4.9.1.5 Focus and picture performance

The almost whole picture is clear.

4.9.1.6 Fix the parts

- (1) After finishing the adjustment inspection, fix the FBT focus pack; FOCUS 1, FOCUS 2 and SCREEN-VR with the yellow or white paint.
- (2) Cover VR601 on the PWB-MAIN with the DHHS-CAP. Use the adhesive TSE3940.



4.9.1.7 Confirm the luminance of the full white

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	The luminance of the full white	Normal	No. 6 : 93.75K / 75Hz
		SW100, D-sub side	Full white

Confirm that the luminance of the full white is the DRIVE signal adjustment timing (A, B, D, F) and the following value.

The luminance of the full white (cd/m²)

	Color 1	Color 2	Color 3	Reference
Type 1	103 or more	90 or more	80 or more	

4.9.1.8 Luminance and color coordination uniformity

Status indicator	Function	Adjustment mode / set	Input signal / pattern
	Luminance and color coordination uniformity	Normal	No. 6 : 93.75K / 75Hz
		SW100, D-sub side	

The ratio of the luminance at the center and at the peripheral is 75% or more.

The difference of the color coordination at the center and at the peripheral is $\Delta x, y < \pm 0.020$.

(Confirm the difference between the COLOR 2 and the COLOR 3 by the visual inspection. The difference of the color coordination at the center and at the peripheral between the COLOR 2 and the COLOR 3 is $\Delta x, y < \pm 0.020$. Do not change the color by the abrupt contrast change.

4.9.1.9 Confirm the color coordination of the full white

Confirm that the color coordination at the center of the full white is within the following value in the drive signal adjustment timing.

Confirm the color coordination of the full white

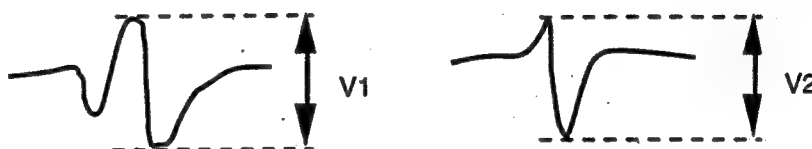
	Confirmation items		COLOR 1	COLOR 2	COLOR 3
Type 1	Color coordination	x	0.283±0.010	0.316±0.010	0.345±0.010
		y	0.297±0.010	0.326±0.010	0.359±0.010

4.9.1.10 Confirm TCO adjustment (Confirm disc waveform)

How to measure is same as <Cancel voltage adjustment> in 4.8.10 TCO adjustment.

Set the trigger input of the oscilloscope to the INTERNAL TRIG. and trigger with the waveform voltage of TCO disk probe.

Confirm the peak in the voltage such as V1 and V2 shown below are within 2.0mV in disc waveform. Regard the disc waveform the voltage is more than 2.0mV as NG.



4.9.1.11 Others

- (1) The change in pressing the PUSH button is smooth and the abnormality of noise etc. is not detected.
- (2) Do not flow synchronization from ON-OFF of the power switch.
- (3) Confirm the POWER LED is ON.

4.10 DDC function check [Use DDC tool (special supply)]

Write by combining with the PC (IBM-PC compatible).

Confirm the clock built-in the PC is set correctly when preparing for writing.

As to details, refer to the exclusive software [N & R Chassis EEPROM EDITORS FOR WINDOWS (special supply)].

4.10.1 Writing and checking of DDC-EDID data

- (1) Select the symmetry model in compliance with the display of the monitor. (Execute this operation first only when setting up the monitor or changing the model.)
- (2) Turn on the monitor.
- (3) Write the data to EEPROM for DDC in compliance with the display of the monitor. The contents of the data is specified on the next page. In this time, confirm the indicator of the LED is green.
- (4) Turn off the monitor in compliance with the display of the monitor and on again after 2 seconds or more.
- (5) Check the DDC function in compliance with the display of the monitor at 1 second or more after powering on. Confirm the indicator of the LED in green.

4.10.2 Serial number setting (Type 1 only)

(1) Serial number setting specification

Read the above serial number with the bar cord system and set the serial number with the following conversion.

S/N → 16 ary conversion → Save data in order of the lower order (As VESA standard)
 (Ex.) 512002978 → 1E848BA2 → Address0C : A2
 Address0D : 8B
 Address0E : 84
 Address0F : 1E

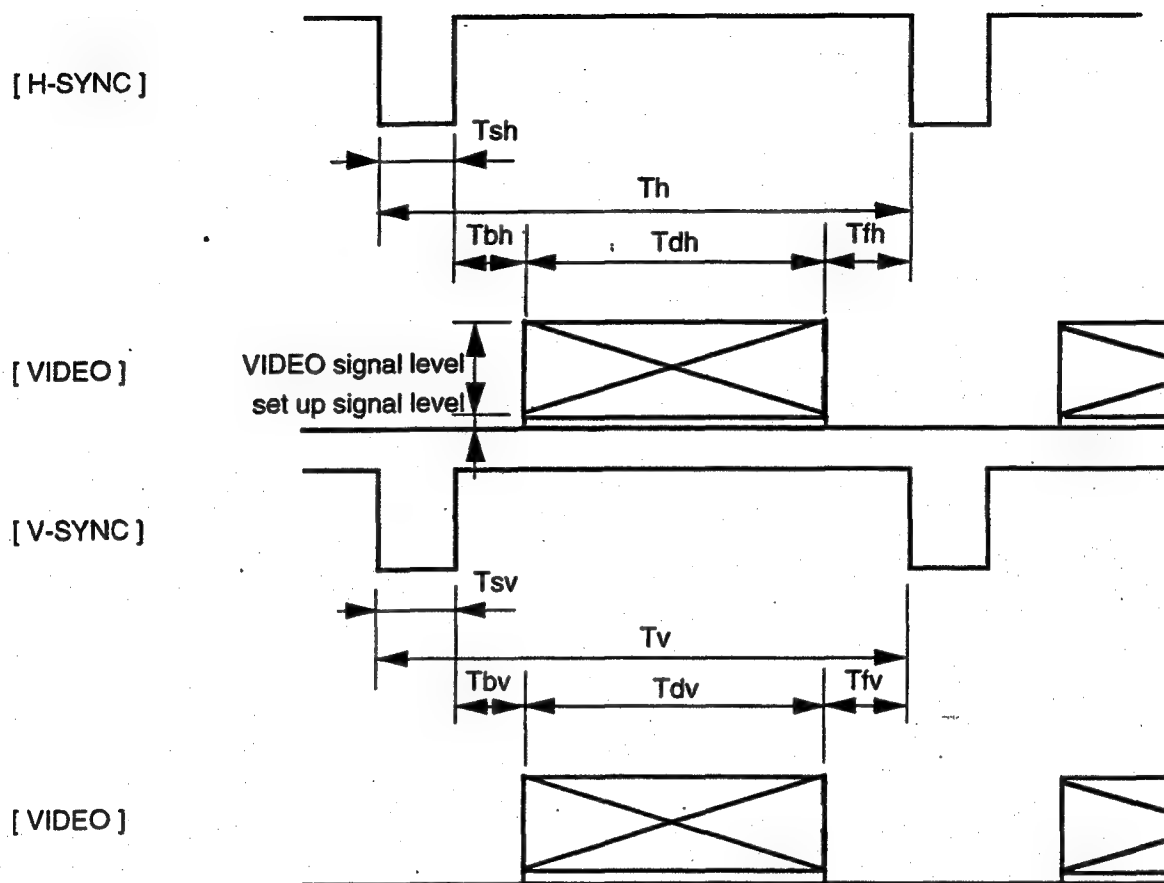
Adjustment procedure

4.10.3 The contents of DDC data writing

The contents of DDC writing data is as follows.

Type	Model name	File name	Data (EDID)Reference	Reference
1	TFW9105SKTKW	W-MEL-2.TXT	00 ff ff ff ff ff ff 00 34 ac e0 40 * * * * W Y 01 00 0e 26 1c 69 e8 04 88 a0 57 4a 9b 26 12 48 4c 24 67 80 a9 4f 81 8f 61 4f 45 4f 31 4f 01 01 01 01 01 01 1a 4f 40 e1 60 b0 32 40 40 80 13 20 7c 1d 11 00 00 1e 86 3d 00 66 51 00 27 40 20 a0 33 00 64 1d 11 00 00 1a 02 3a 00 a0 51 00 27 40 20 a0 33 00 7c 1d 11 00 00 1a ea 24 00 a0	In the data of the left W : Week of manufacture Y : Year of Manufacture S : Set the check SAM with PC.

4.11 Timing chart



* Refer to the next page for the preset timing

Adjustment timing

4.12 Adjustment timing

NO	Fh (kHz)	Clock (MHz)	Th (μ SEC)	Tsh (μ SEC)	Tth (μ SEC)	Tbh (μ SEC)	Tdh (μ SEC)	Fv (Hz)	Tv (mSEC)	Tsv (mSEC)	Ttv (mSEC)	Tbv (mSEC)	Tdv (mSEC)	Hs	Vs	VIDEO level (V)	set up level (V)	Type 1	Reference
A	30		33.333 (1684)	4.000 (202)	1.000 (51)	3.000 (152)	25.333 (1280)	70.10	14.268 (1057)	0.064 (3)	1.176 (4)	1.906 (26)	11.122 (1024)	+	—	0.7	—		H-FREE RUNNING, +B H-DRIVE adjustment
B	56.48		17.707 (1494)	1.813 (153)	0.320 (27)	1.920 (162)	13.653 (1152)	70.07	14.272 (913)	0.106 (7)	0.053 (3)	0.513 (33)	13.599 (870)	+	—	0.7	—		H-FREE RUNNING, +B H-DRIVE adjustment
C	84		11.900 (1731)	1.000 (145)	0.700 (102)	1.400 (204)	8.800 (1280)	82.4	12.130 (1064)	0.034 (3)	0.038 (3)	0.388 (34)	11.670 (1024)	+	—	0.7	—		H-FREE RUNNING adjustment
D	86		11.627 (1353)	1.000 (116)	0.427 (50)	1.400 (163)	8.800 (1024)	82.4	12.130 (798)	0.034 (2)	0.038 (2)	0.388 (26)	11.670 (768)	—	+	0.7	—		H-DRIVE adjustment
E	88		11.360 (1451)	1.000 (128)	0.190 (24)	1.400 (179)	8.767 (1120)	82.4	12.130 (780)	0.034 (2)	0.038 (3)	0.388 (25)	11.670 (750)	+	—	0.7	—		H-FREE RUNNING adjustment
F	93.8		10.667 (2160)	0.948 (192)	0.316 (64)	1.501 (304)	7.901 (1600)	75.00	13.333 (1250)	0.032 (3)	0.011 (1)	0.491 (46)	12.800 (1200)	+	—	0.7	—		H-FREE RUNNING, +B H-DRIVE adjustment
For check	35		28.571	2.116	1.091	4.200	21.164	66.7	15.000	0.086	0.086	1.114	13.714	S/G	—	0.7	—		For checking
1	37.50	31.500	26.667 (840)	2.032 (64)	0.508 (16)	3.810 (120)	20.317 (640)	75.00	13.333 (500)	0.080 (3)	0.027 (1)	0.426 (16)	12.800 (480)	—	—	0.7	—	▲ 6	VESA(640*480)
2	46.9	49.500	21.33 (1056)	1.616 (80)	0.323 (16)	3.232 (160)	16.162 (800)	75.00	13.333 (625)	0.064 (3)	0.021 (1)	0.448 (21)	12.800 (600)	+	+	0.7	—	▲ 7	VESA(800*600)
3	60	78.750	16.661 (1312)	1.219 (96)	0.203 (16)	2.235 (176)	13.004 (1024)	75.03	13.328 (800)	0.050 (3)	0.017 (1)	0.466 (28)	12.795 (768)	+	+	0.7	—	○ 0	VESA(1024*768)
4	68.70	100.000	14.560 (1456)	1.280 (128)	0.320 (32)	1.440 (144)	11.520 (1152)	75.10	13.322 (915)	0.044 (3)	0.043 (3)	0.568 (39)	12.667 (870)	—	—	0.7	—	○ 1	APPLE 21(1152*870)
5	79.98	135.000	12.504 (1688)	1.067 (144)	0.119 (16)	1.837 (248)	9.481 (1280)	75.03	13.329 (1066)	0.038 (3)	0.013 (1)	0.475 (38)	12.804 (1024)	+	+	0.7	—	○ 2	VESA(1280*1024)
6	93.75	202.500	10.667 (2160)	0.948 (192)	0.316 (64)	1.501 (304)	7.901 (1600)	75.00	13.333 (1250)	0.032 (3)	0.011 (1)	0.491 (46)	12.800 (1200)	+	+	0.7	—	○ 3	VESA(1600*1200)
7	31.50	25.175	31.778 (800)	3.813 (96)	0.636 (16)	1.907 (48)	25.422 (640)	59.94	16.683 (525)	0.064 (2)	0.318 (110)	1.048 (33)	15.253 (480)	—	—	0.7	—	▲ 4	IBM 480(640*480)
8	31.50	28.300	31.777 (800)	3.813 (108)	0.635 (18)	1.907 (54)	25.422 (720)	70.09	14.268 (449)	0.064 (2)	0.413 (13)	1.080 (34)	12.711 (400)	—	+	0.7	—		DEC(720*400)
9	49.70	57.270	20.115 (1152)	1.118 (64)	0.559 (32)	3.910 (224)	14.528 (832)	74.50	13.417 (667)	0.060 (3)	0.020 (1)	0.785 (78)	12.552 (624)	—	—	0.7	—	▲ 8	APPLE 16(832*624)
10	56.48	75.000	17.707 (1328)	1.813 (136)	0.320 (24)	1.921 (144)	13.653 (1024)	70.07	14.272 (1064)	0.106 (3)	0.053 (6)	0.514 (31)	13.599 (768)	—	—	0.7	—	▲ 9	VESA(1024*768)
11	63.97	108.500	15.631 (1696)	1.180 (128)	0.590 (64)	2.065 (224)	11.797 (1280)	60.01	16.663 (1066)	0.047 (3)	0.016 (1)	0.594 (38)	16.01 (1024)	+	+	0.7	—	▲ 10	VESA(1280*1024)
12	68.68	94.500	14.561 (1376)	1.016 (96)	0.508 (48)	2.201 (208)	10.836 (1024)	85.00	11.765 (808)	0.044 (3)	0.015 (1)	0.524 (36)	11.183 (768)	+	+	0.7	—	▲ 11	VESA(1024*768)
13	75.00	126.000	13.333 (1680)	1.143 (144)	0.254 (32)	1.778 (224)	10.159 (1280)	75.00	13.333 (100)	0.040 (3)	0.013 (1)	0.480 (36)	12.800 (960)	+	+	0.7	—	▲ 12	VESA(1280*960)
14	81.25	175.500	12.308 (2160)	1.094 (192)	0.365 (64)	1.732 (304)	9.117 (1600)	65.00	15.385 (1250)	0.037 (3)	0.012 (1)	0.566 (46)	14.769 (1200)	+	+	0.7	—	▲ 13	VESA(1600*1200)
15	85.94	148.500	11.636 (1728)	1.077 (160)	0.323 (48)	1.616 (240)	8.620 (1280)	85.00	11.764 (1011)	0.035 (3)	0.012 (1)	0.547 (47)	11.171 (960)	+	+	0.7	—	▲ 14	VESA(1280*960)
16	91.15	157.500	10.971 (1728)	1.016 (160)	0.305 (48)	1.524 (240)	8.127 (1280)	85.02	11.761 (1072)	0.033 (3)	0.011 (1)	0.483 (44)	11.235 (1024)	+	+	0.7	—	▲ 15	VESA(1280*1024)
17	31.50	25.175	31.778 (800)	3.813 (96)	0.636 (16)	1.907 (48)	25.422 (640)	70.09	14.268 (449)	0.064 (2)	0.382 (12)	1.111 (35)	12.711 (400)	—	+	0.7	—	▲ 5	IBM 400(640*400)
18	63.78	114.290	15.680 (1792)	1.224 (224)	0.560 (64)	1.960 (224)	11.200 (1280)	59.66	16.761 (1069)	0.047 (3)	0.000 (0)	0.659 (42)	16.055 (1024)	S/G	—	0.66	0.05		ME(1280*1024)
19	75.00	162.000	13.333 (2160)	1.185 (192)	0.395 (64)	1.877 (304)	9.877 (1600)	60.00	16.667 (1250)	0.040 (3)	0.013 (1)	0.613 (46)	16.000 (1200)	+	+	0.7	—		VESA(1600*1200)
20	78.13	135.000	12.799 (1728)	1.422 (192)	0.474 (64)	1.422 (192)	9.481 (1280)	72.00	13.888 (1083)	0.038 (3)	0.038 (3)	0.704 (55)	13.108 (1024)	S/G	—	0.66	0.05		ME/R(1280*1024)

○ mark : Factory adjustment

○ mark : Factory adjustment (But it is not the preset, so the specification of picture distortion is not applicable.)

▲ mark : Initial data (So long as the initial data, take Hs : +, Vs : - for the sync. signal.
H-SIZE, H-PHASE, DBF-H-AMP and DBF-H PHASE needs the factory adjustment.
Numbering after the mark is the preset numbering.

4.13 Adjustment value list

The horizontal size, the vertical size and DBF-H amplitude are within the following value.

Timing No.	Horizontal size (mm)	Vertical size (mm)	DBF-H amplitude
	Type1	Type 1	Type 1
1	380±5	285±4	355±10
2	380±5	285±4	355±10
3	380±5	285±4	355±10
4	380±5	285±4	355±10
5	356±5	285±4	330±10
6	380±5	285±4	355±10
7	380±5	285±4	355±10
8	380±5	285±4	355±10
9	380±5	285±4	355±10
10	380±5	285±4	355±10
11	356±5	285±4	330±10
12	380±5	285±4	355±10
13	380±5	285±4	355±10
14	380±5	285±4	355±10
15	380±5	285±4	355±10
16	356±5	285±4	330±10
17	380±5	285±4	355±10
18			
19			
20			

Adjustment procedure

4.14 How to degauss with the hand demagnetizer

General notice

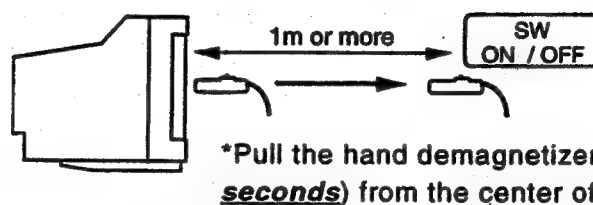
Degauss with the power of the monitor ON.

For using the hand demagnetizer, leave 1 ~ 1.5m or more from the CRT surface, when powering the degauss switch On or OFF.

Do not use the hand demagnetizer of *ring-type but *bar-type.



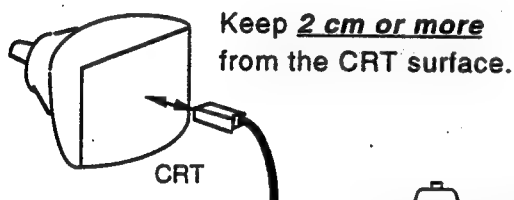
For the CRT surface, side and back, degauss as carefully and slowly (1m / 3 seconds) as possible. When keeping the hand demagnetizer coil at a distance from the CRT surface, work as slowly as possible, as shown below. When keeping quickly it at a distance, the stripes remains at the corner on the screen.



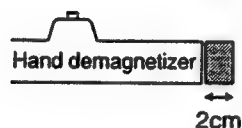
How to have and use the hand demagnetizer

Turn the axial-direction of the hand demagnetizer at a right angle with the CRT.

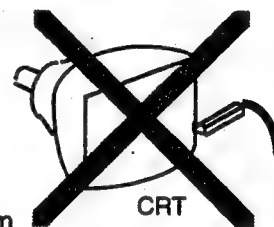
Do not turn the axial-direction of the hand demagnetizer to the parallel to the CRT.



As it is possible that aperture grilles twine themselves around, we recommend the following plan.



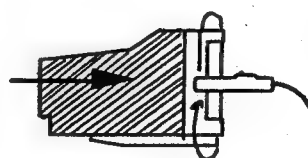
Attach the styrene foam to the head side.



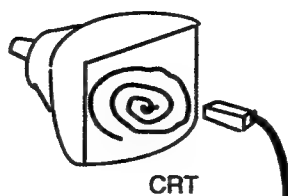
Moving the hand demagnetizer to the CRT surface as carefully and slowly (1m / 3 seconds) as possible. Then, turn the hand demagnetizer 2 ~ 3 times slowly around the side of CRT.

Do not use the hand demagnetizer on the rear cover of the shadow area.

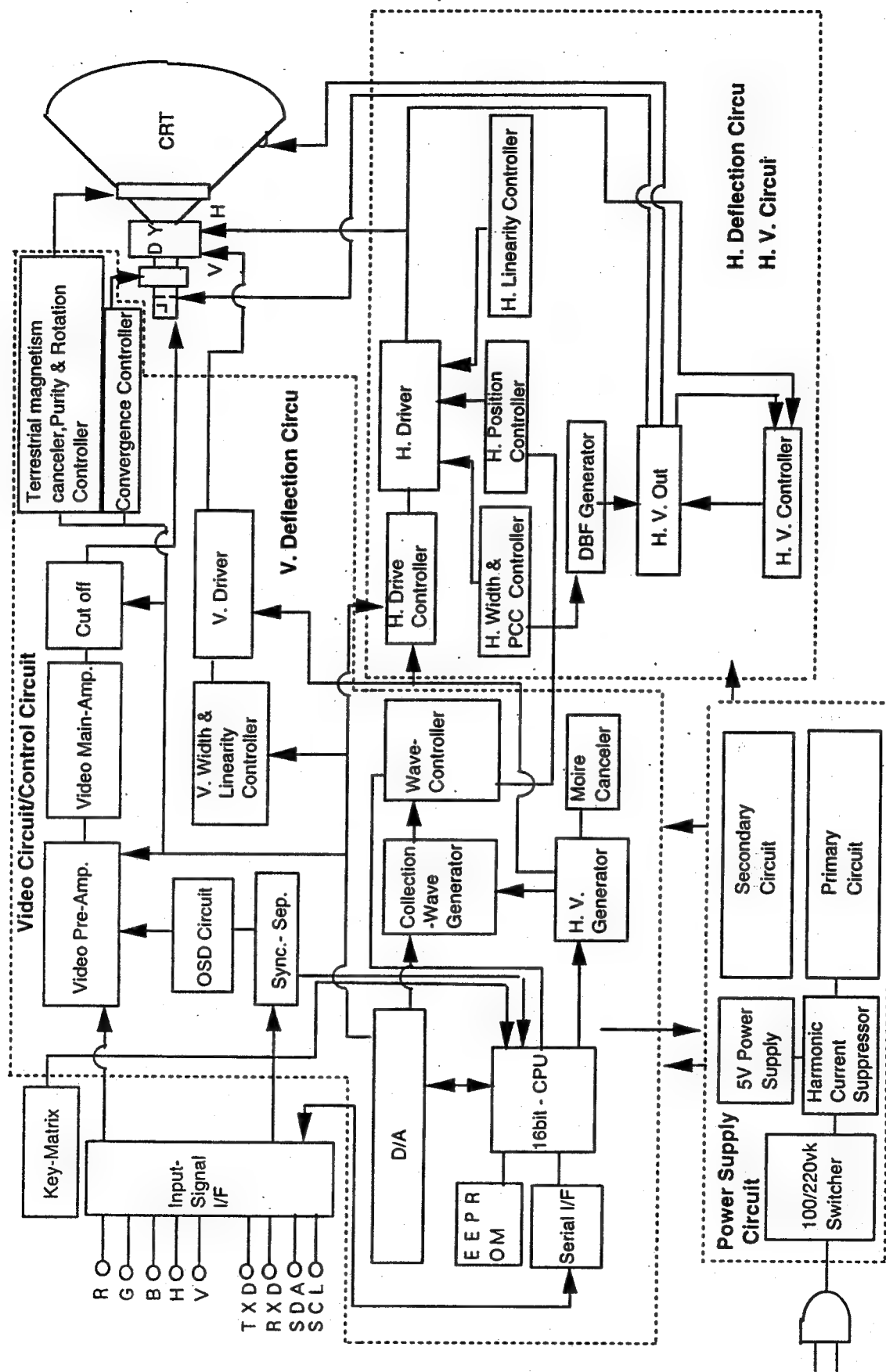
Note: In case of needing to degauss the rear cover area, bear in mind that you must degauss slowly (1m / 3 seconds).



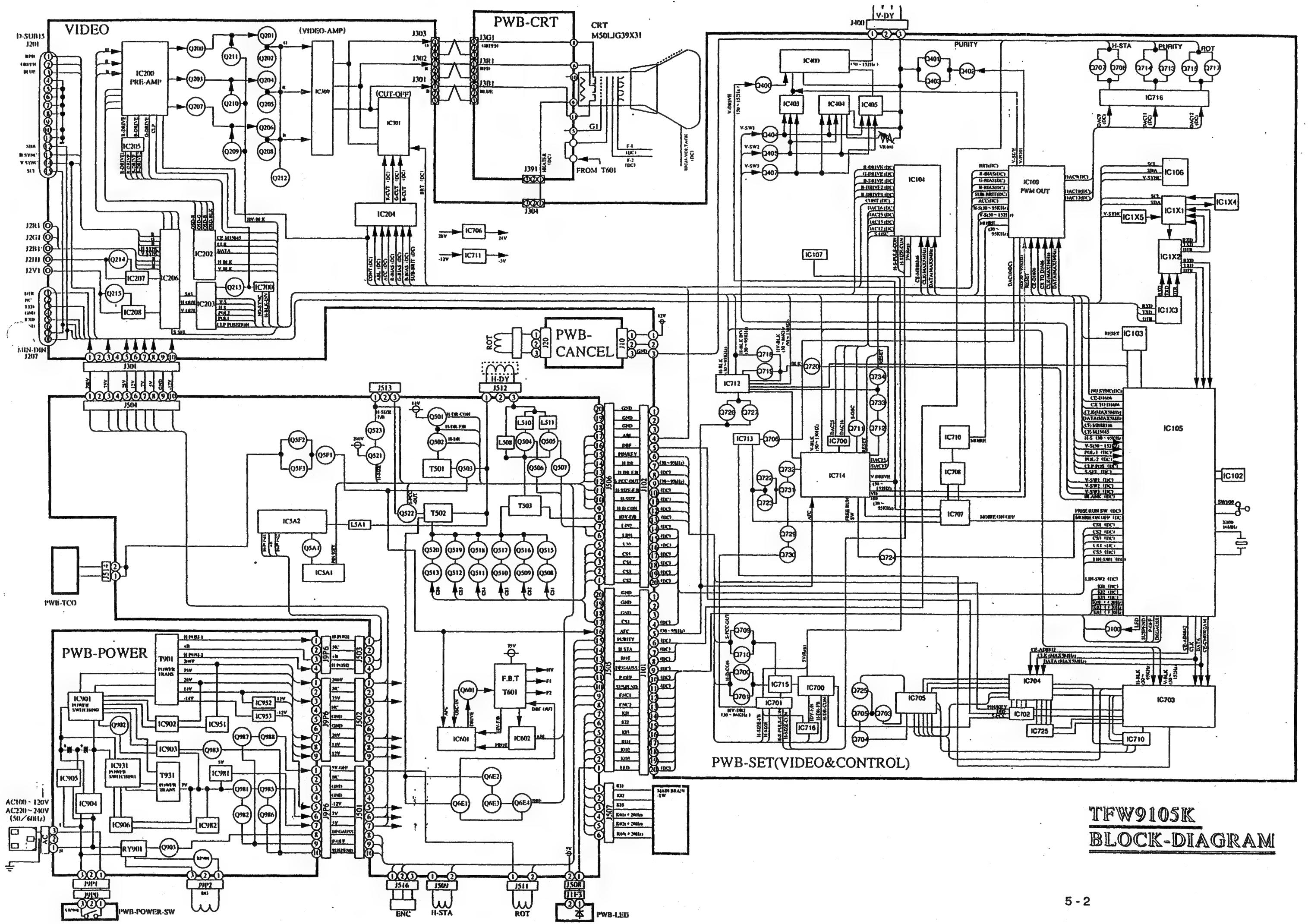
Moving the hand demagnetizer to the CRT surface as carefully and slowly (1m / 3 seconds) as possible. Then, turn the hand demagnetizer 4 ~ 5 times slowly like the under figure.



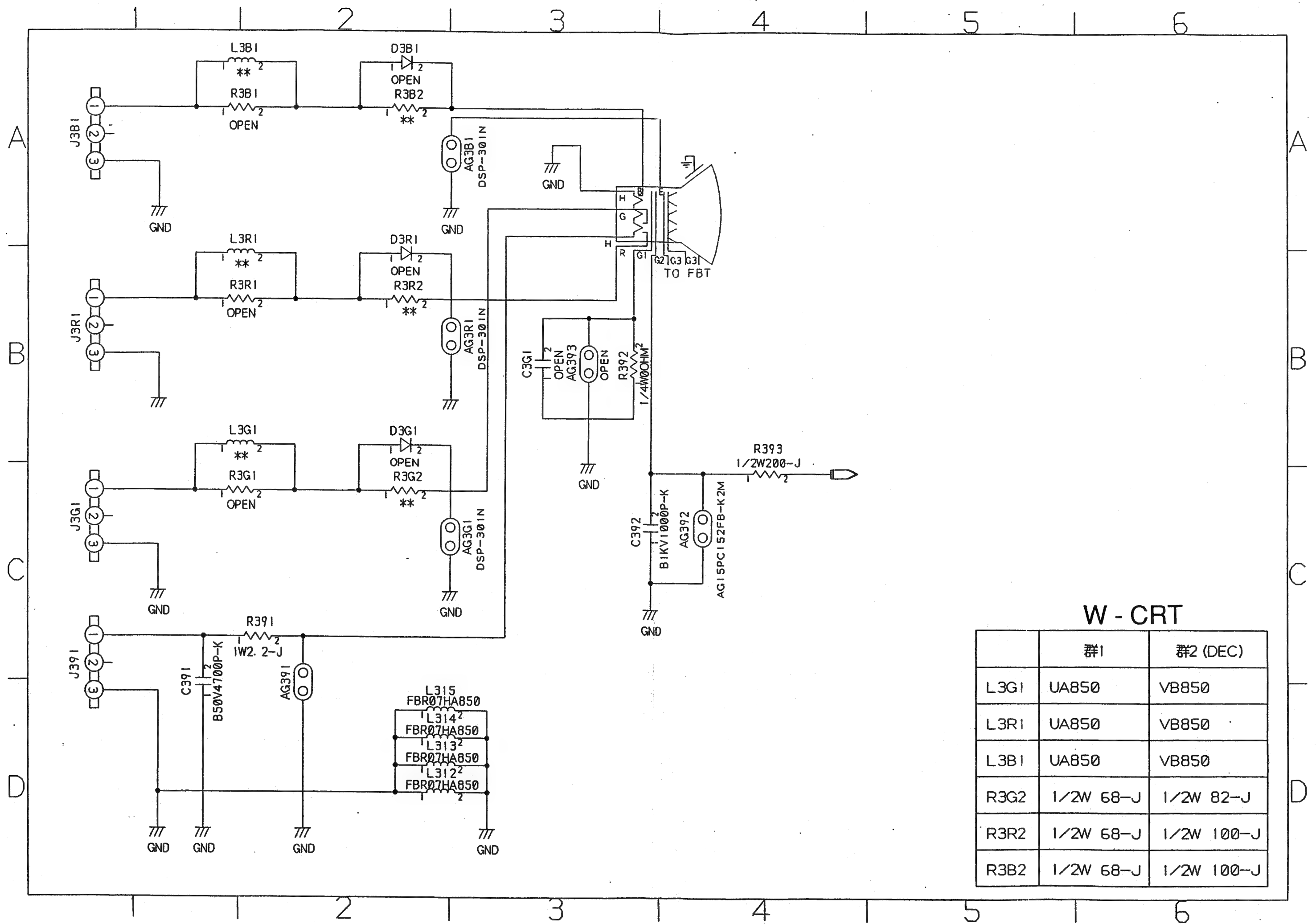
Finally, remove from the CRT surface as slowly (1m / 3 seconds) as possible.



W chassis Block Diagram



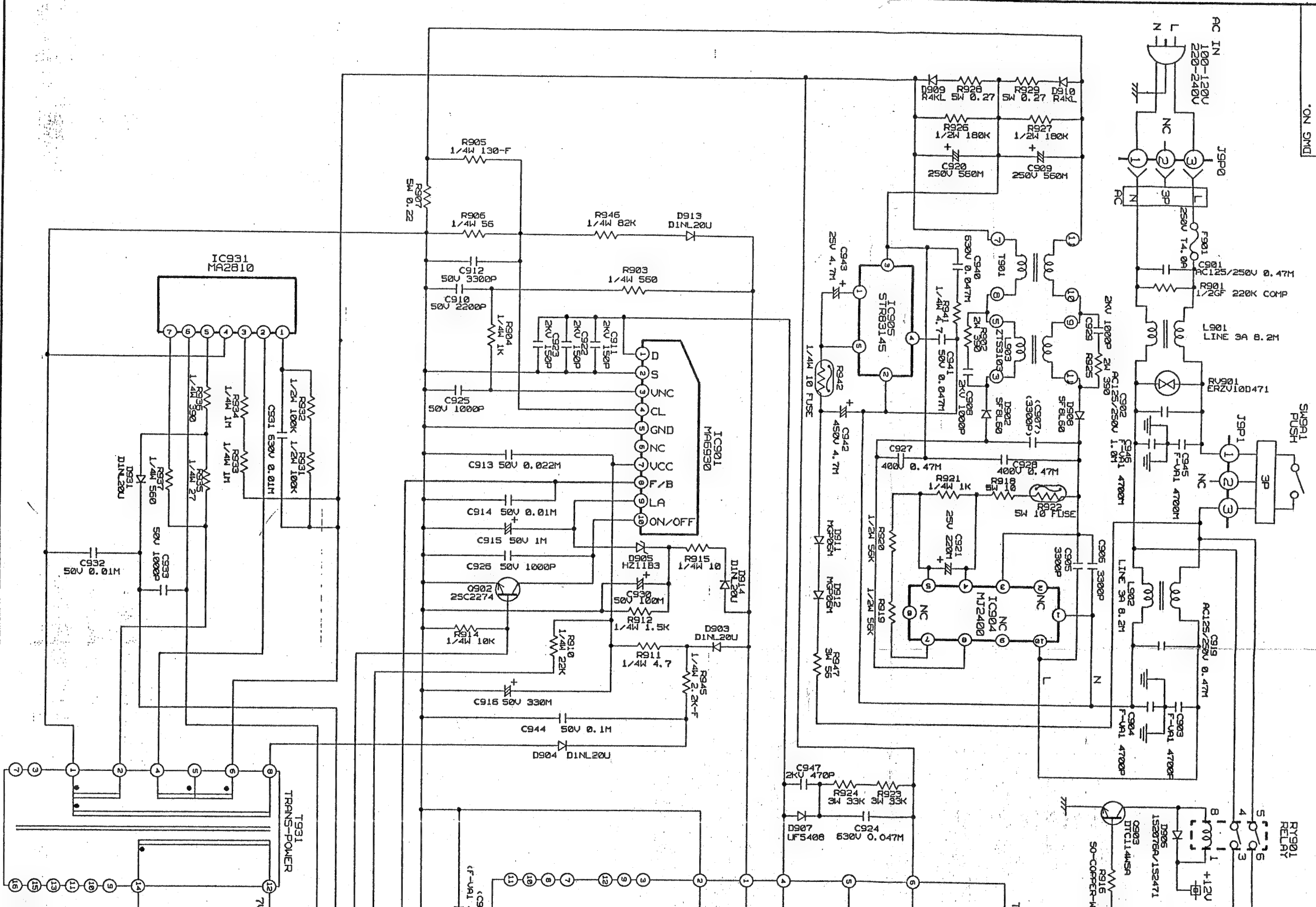
TFW9105K
BLOCK-DIAGRAM



W - CRT

	群1	群2 (DEC)
L3G1	UA850	VB850
L3R1	UA850	VB850
L3B1	UA850	VB850
R3G2	1/2W 68-J	1/2W 82-J
R3R2	1/2W 68-J	1/2W 100-J
R3B2	1/2W 68-J	1/2W 100-J

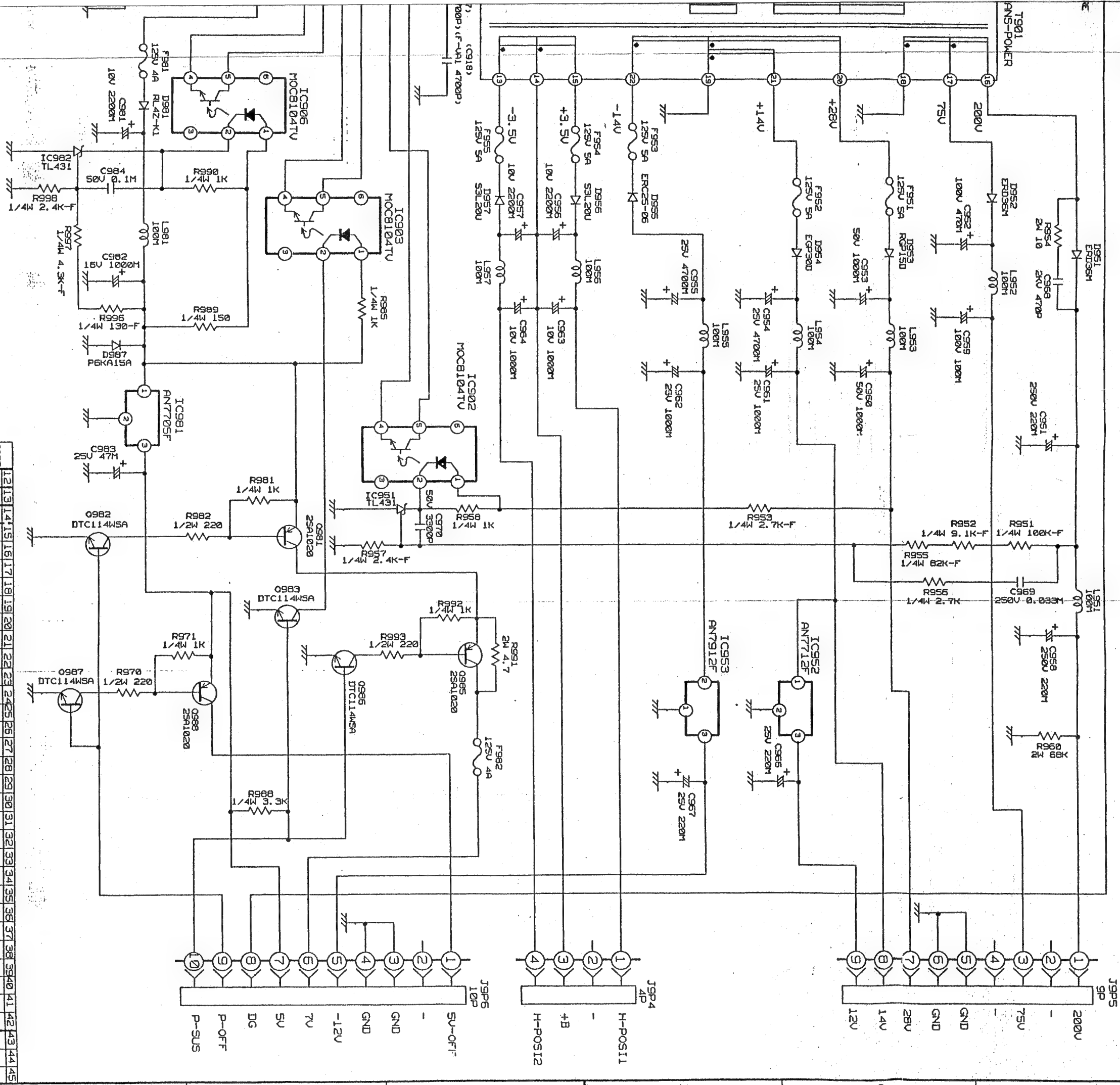
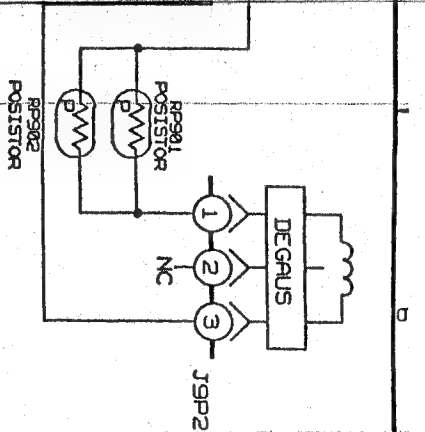
NO. DWG



DRAWING

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ABBREV=M-POWER
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C. RANGE



出図用
外注用
計画

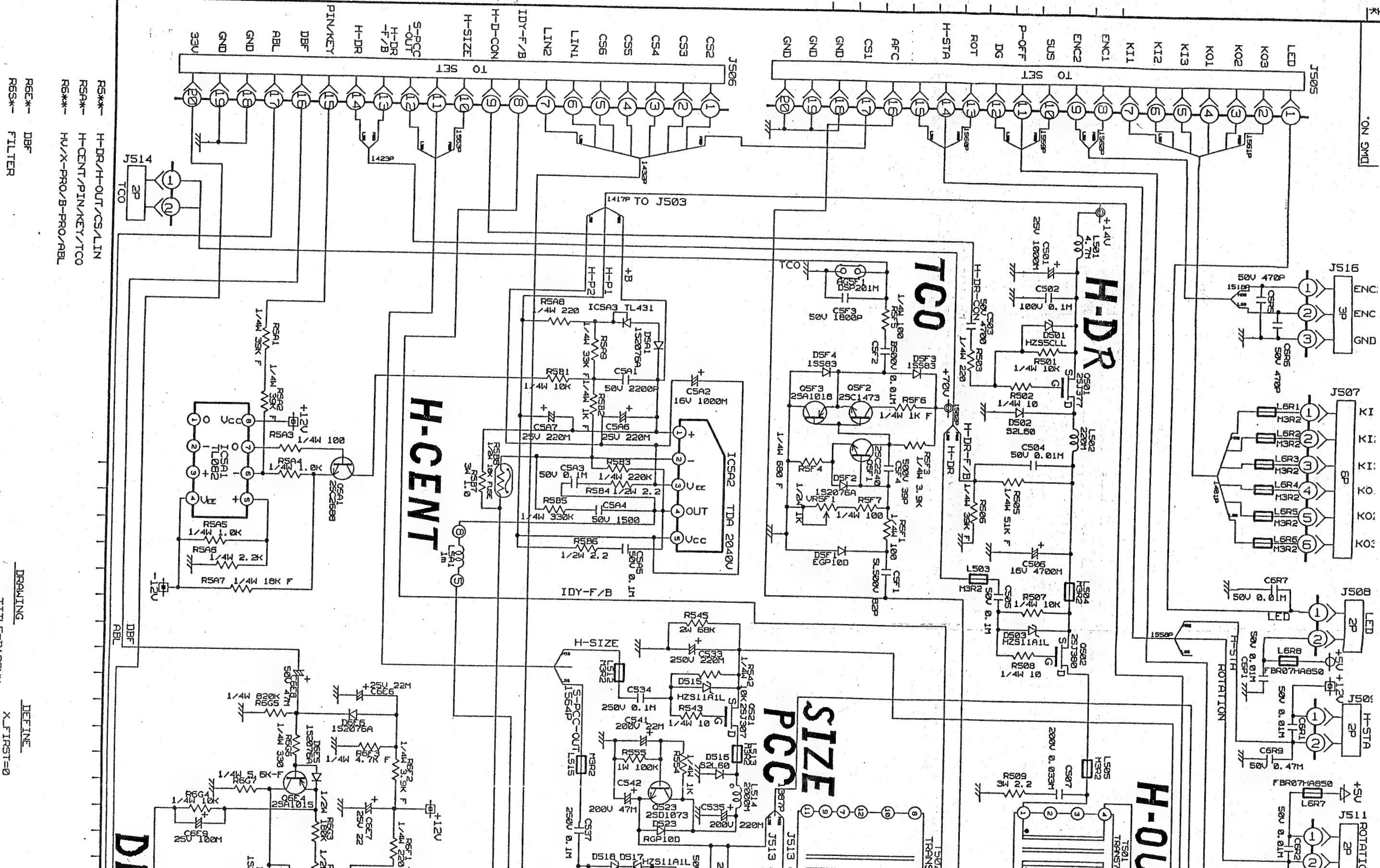
MITSUBISHI ELECTRIC CORPORATION
NAGASAKI WORKS

TITLE SCHEMATIC DIAGRAM
W-POWER

DIM. IN mm
SCALE
NTS

DATE
DRAWN
CHECKED
DESIGNED

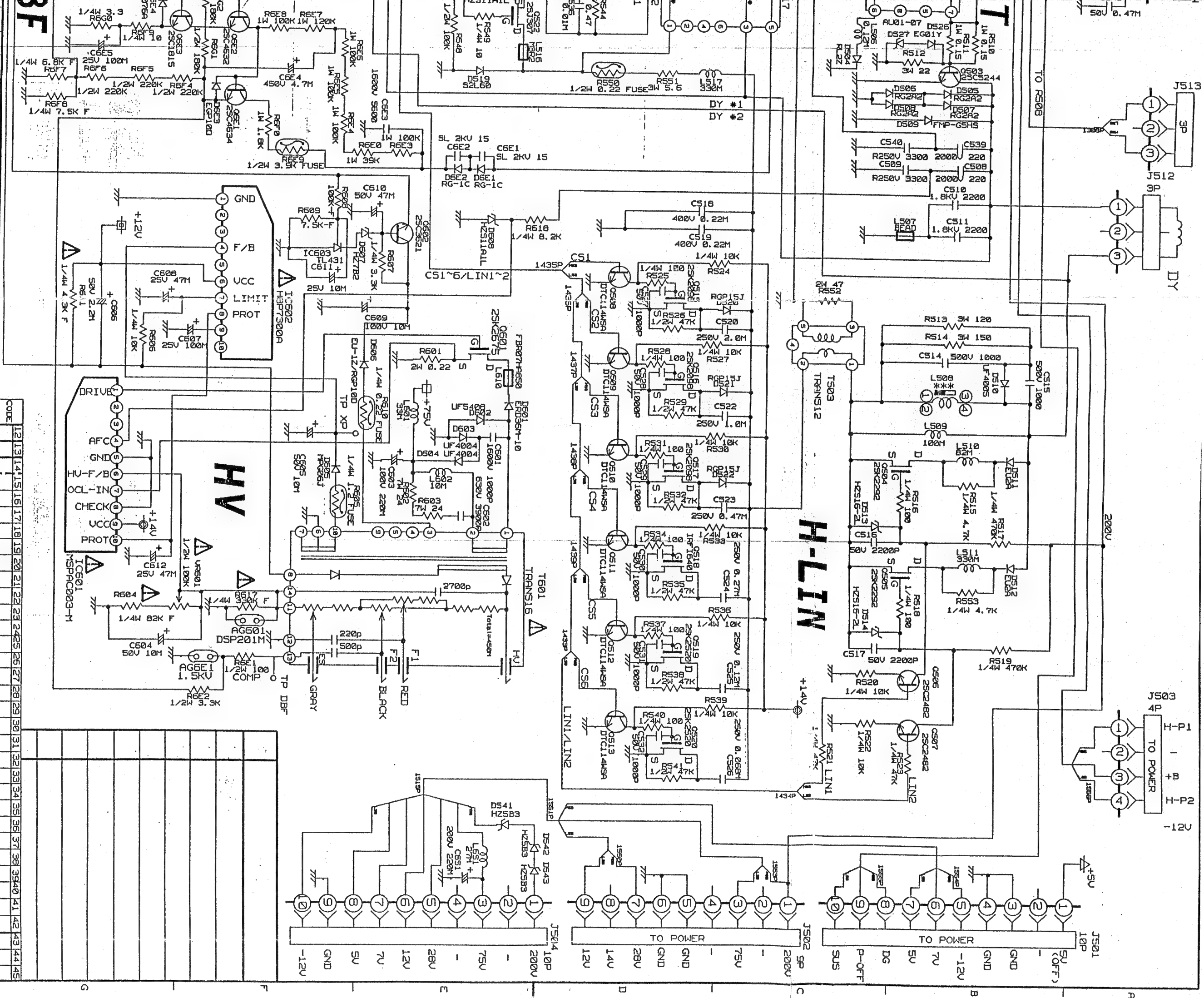
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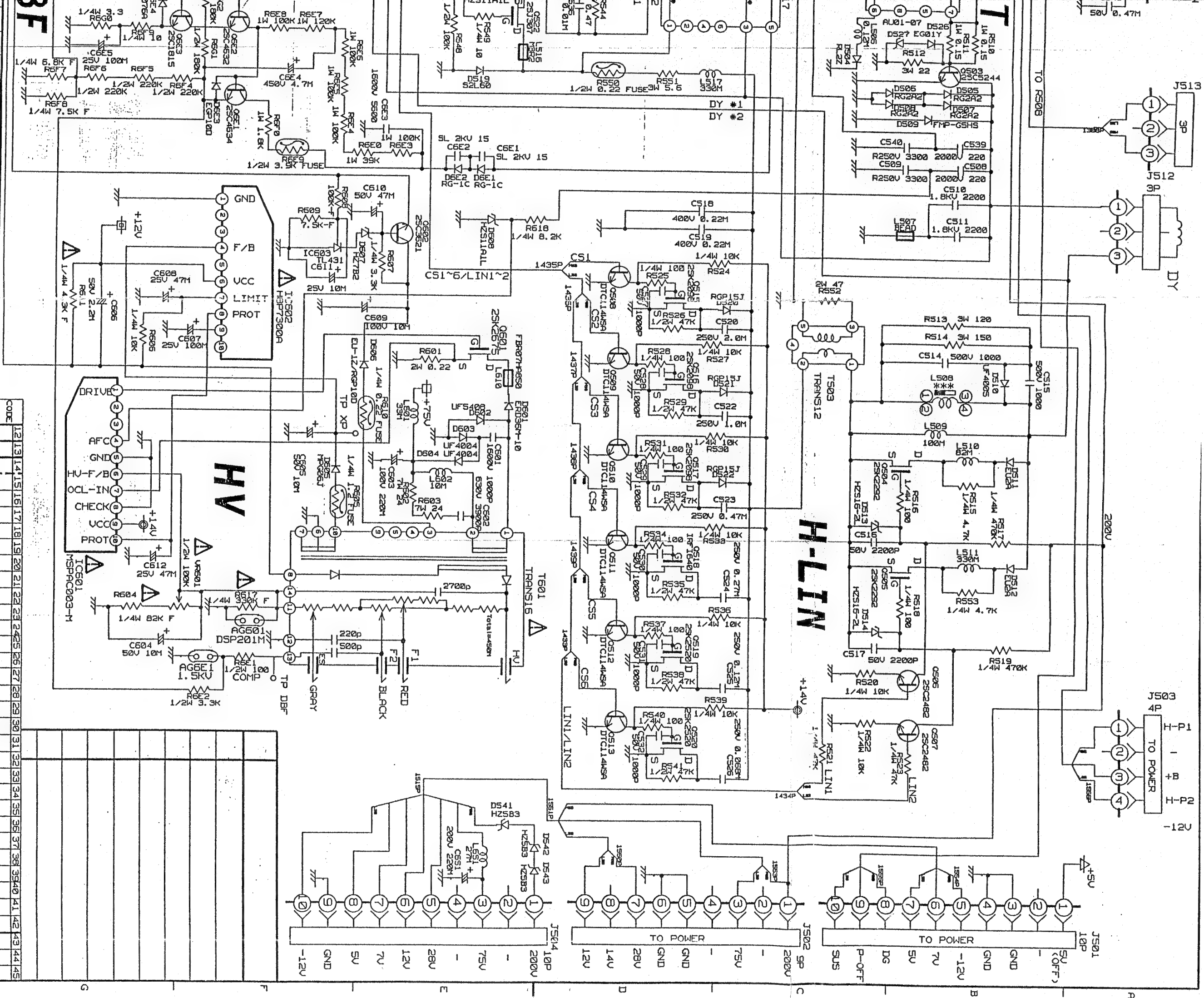
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MITSUBISHI ELECTRIC CORPORATION
 NAGASAKI WORKS

DIM. IN mm
 SCALE :
 DRAWN :
 CHECKED :
 DESIGNED :

TITLE SCHEMATIC DIAGRAM
 W-MAIN (DEFL)

出図用	外注用	計画
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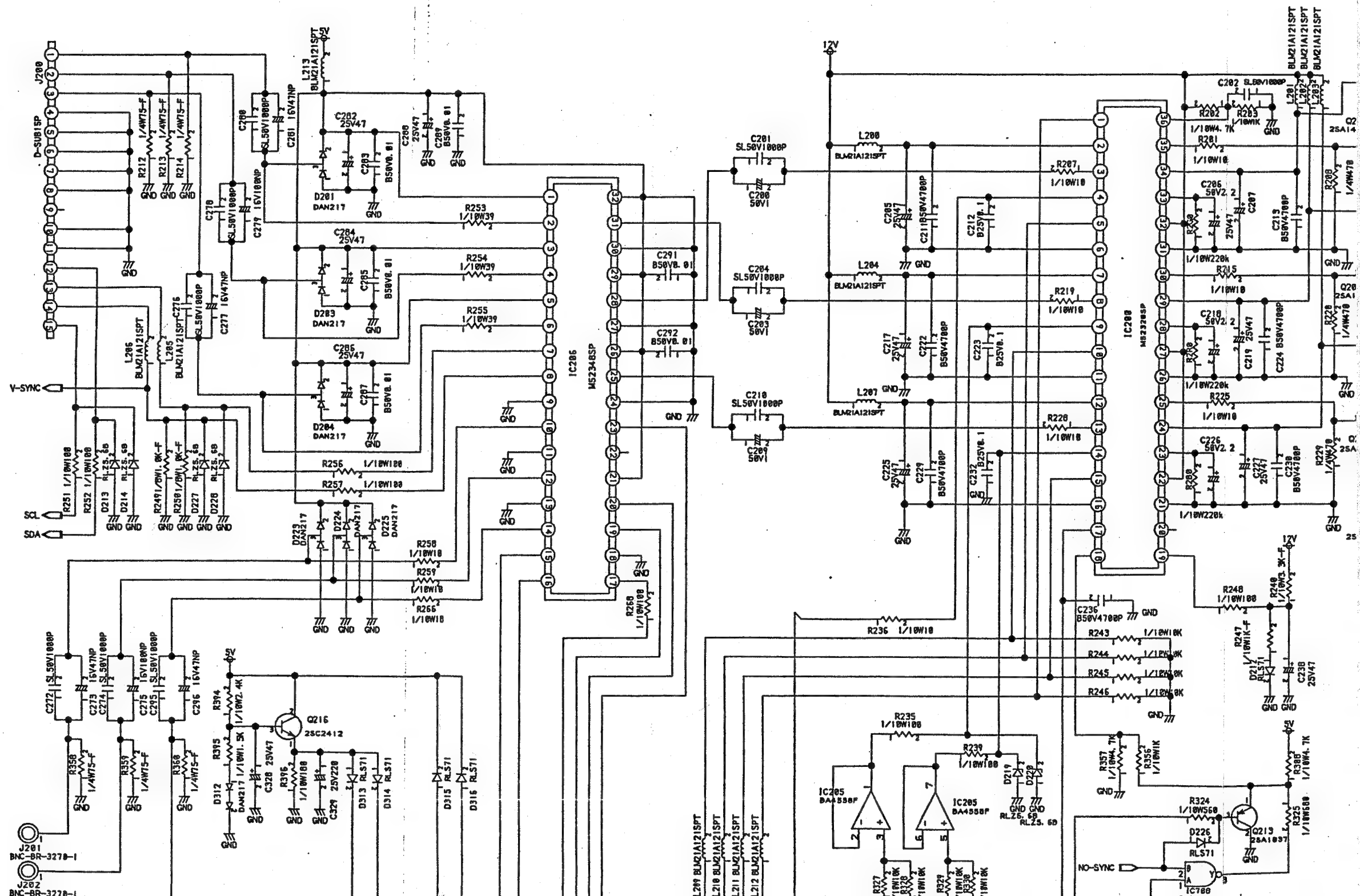


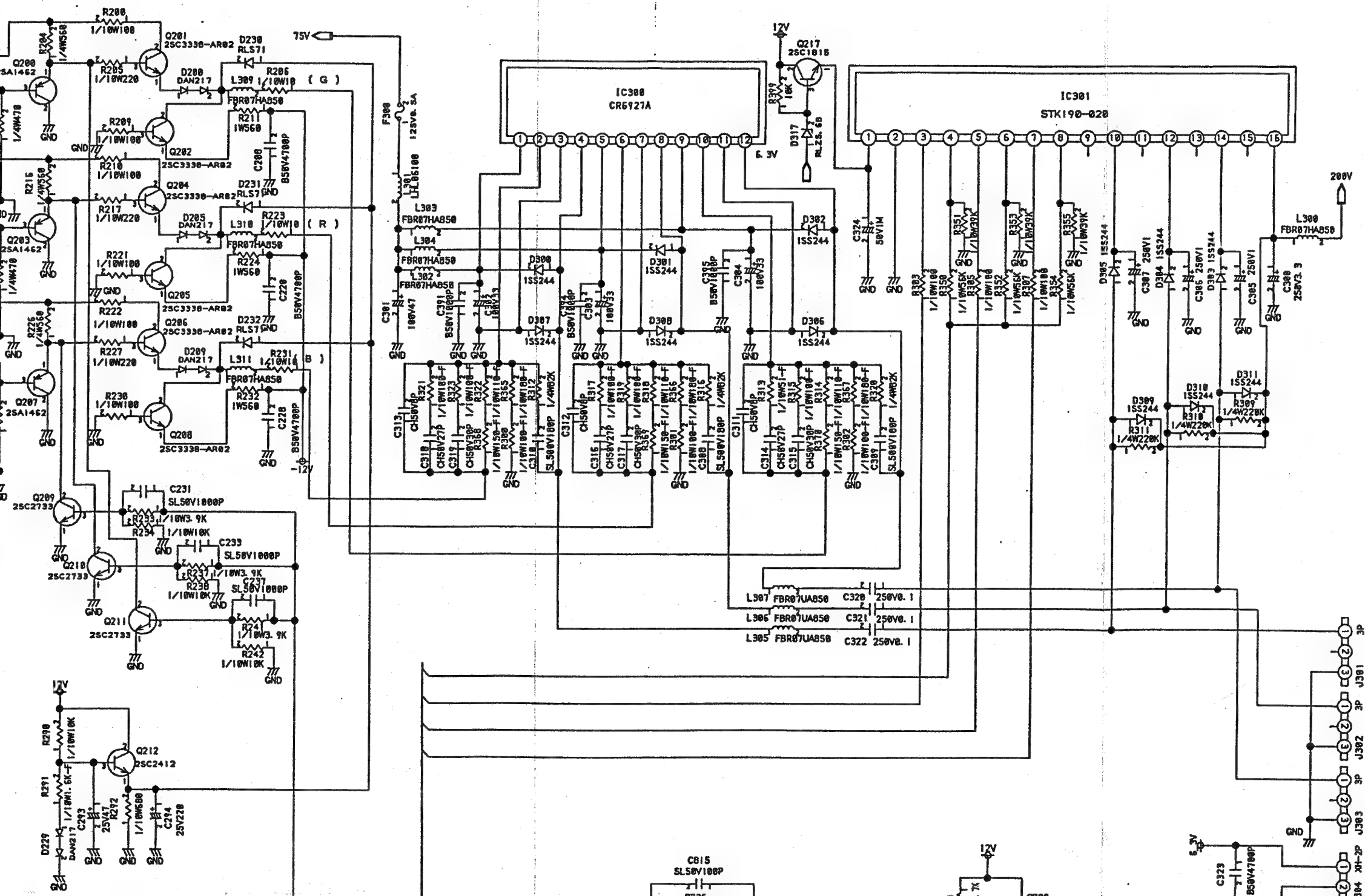
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MITSUBISHI ELECTRIC CORPORATION
NAGASAKI WORKS

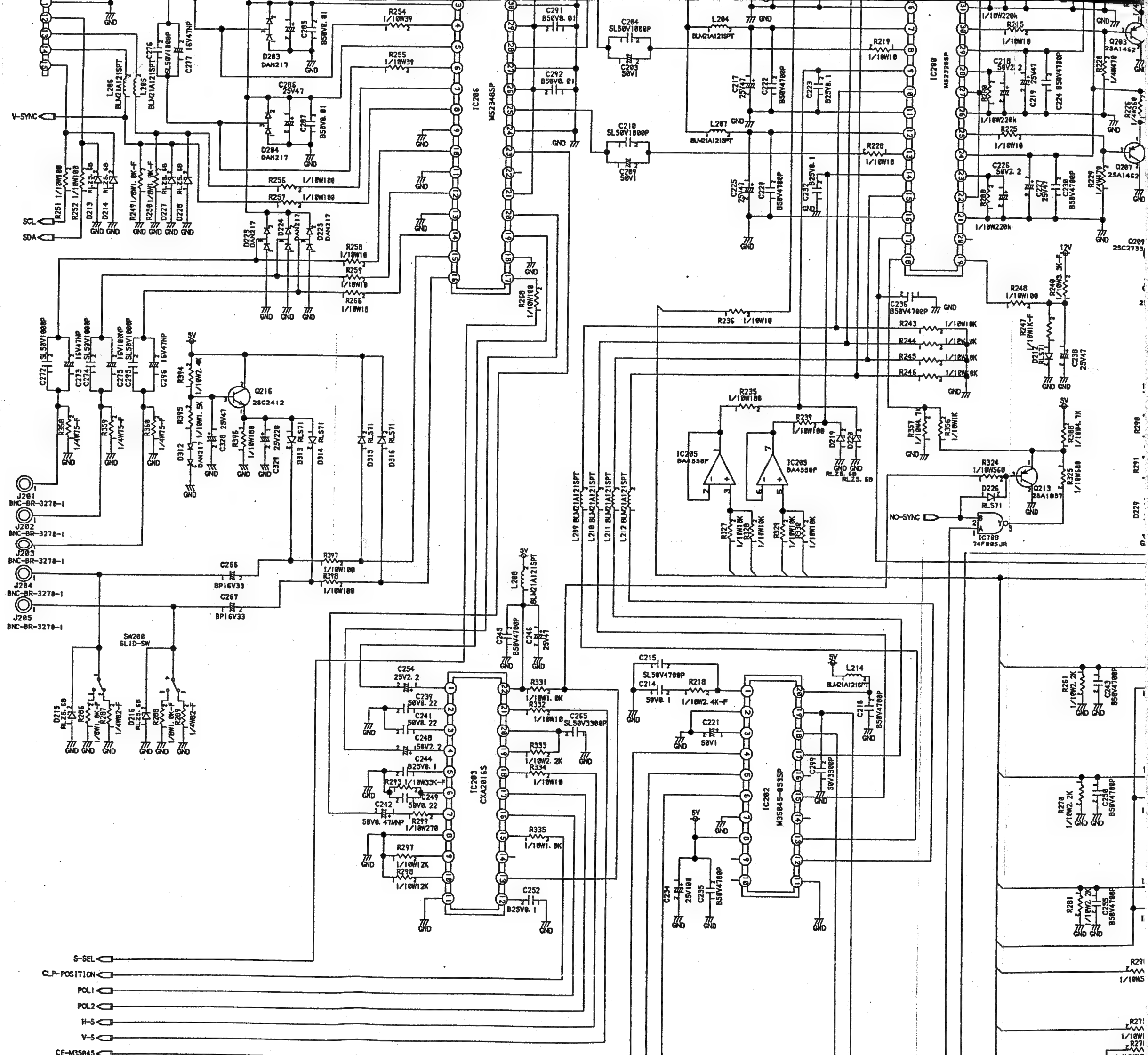
TITLE SCHEMATIC DIAGRAM
W-MAIN (DEFL)

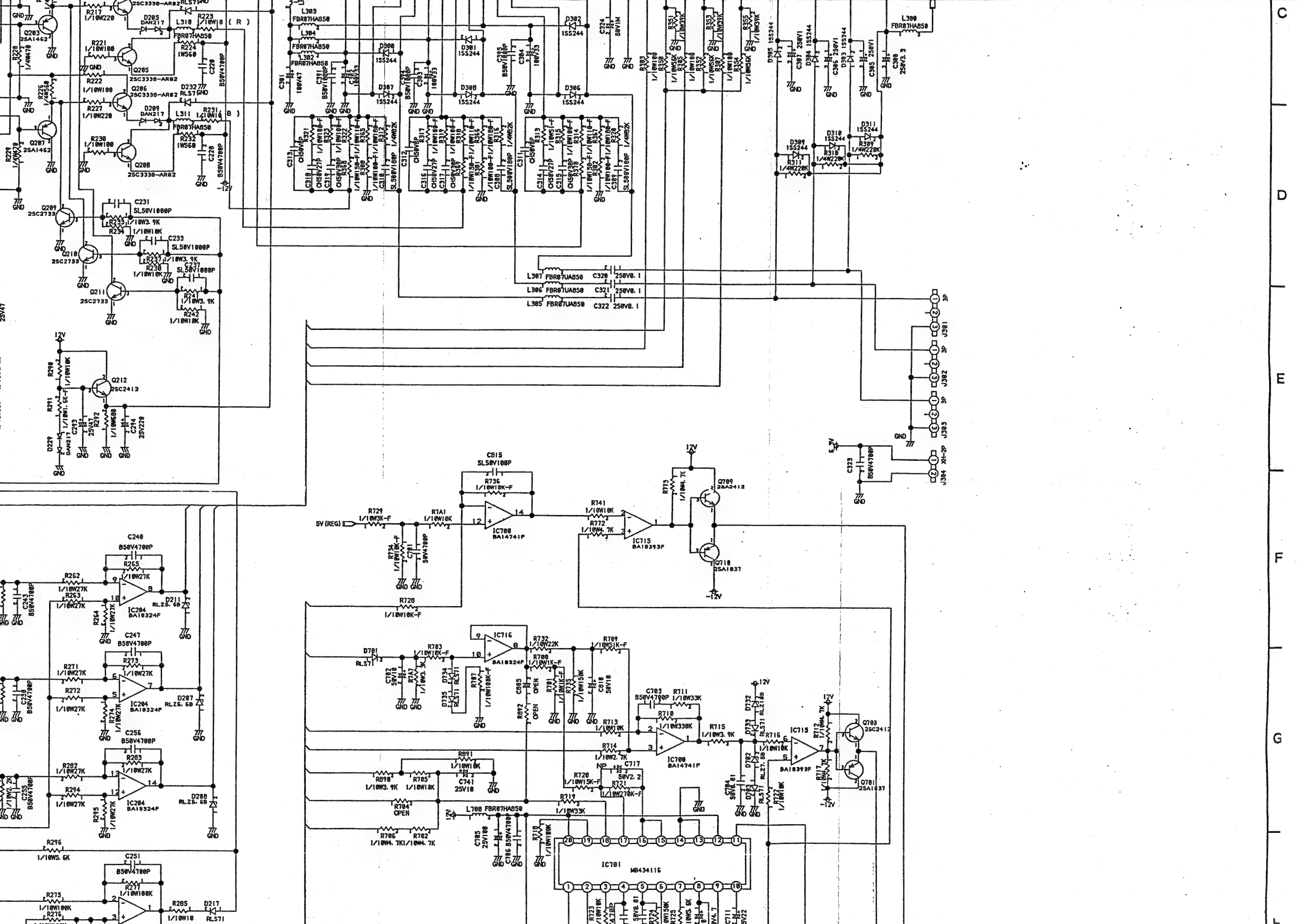
出図用	外注用	計画
DIM. IN mm		
SCALE		
DESIGNED	CHECKED	DRAWN
DATE		
APPROVED		

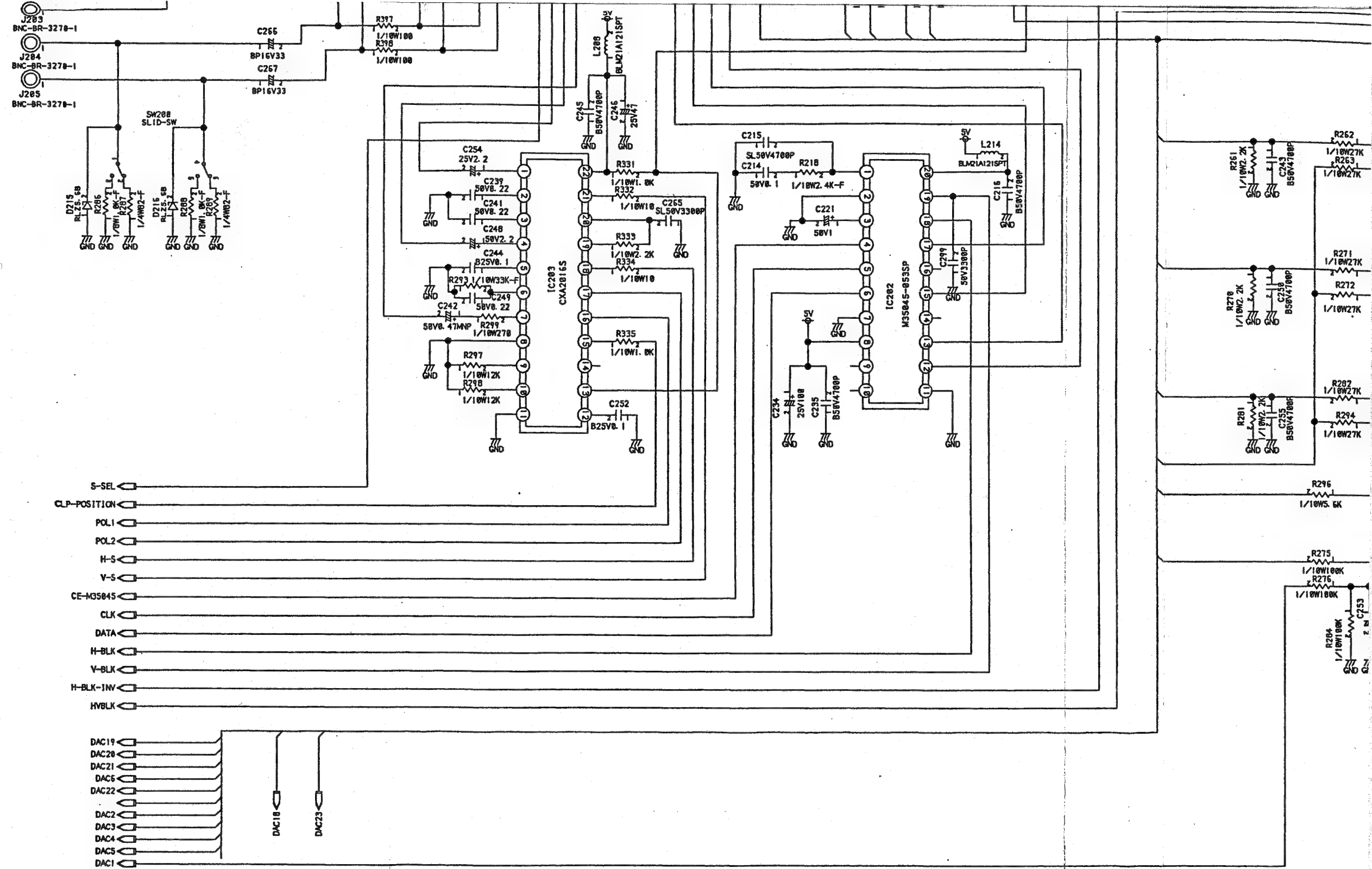


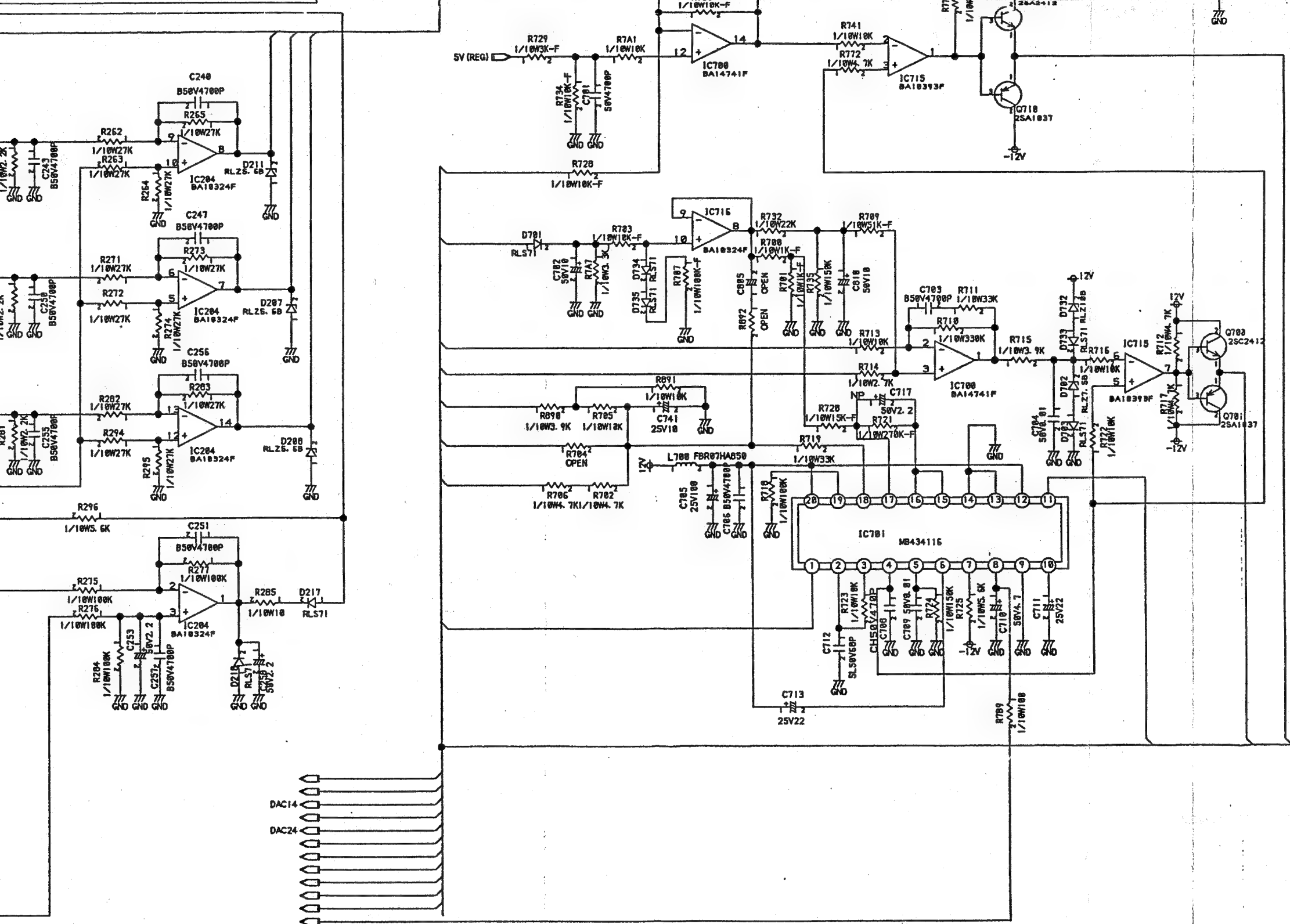


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図面コード	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
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出図用 外注用	計図 1	DIM. IN mm	MITSUBISHI ELECTRIC CORPORATION NAGASAKI WORKS			TITLE	
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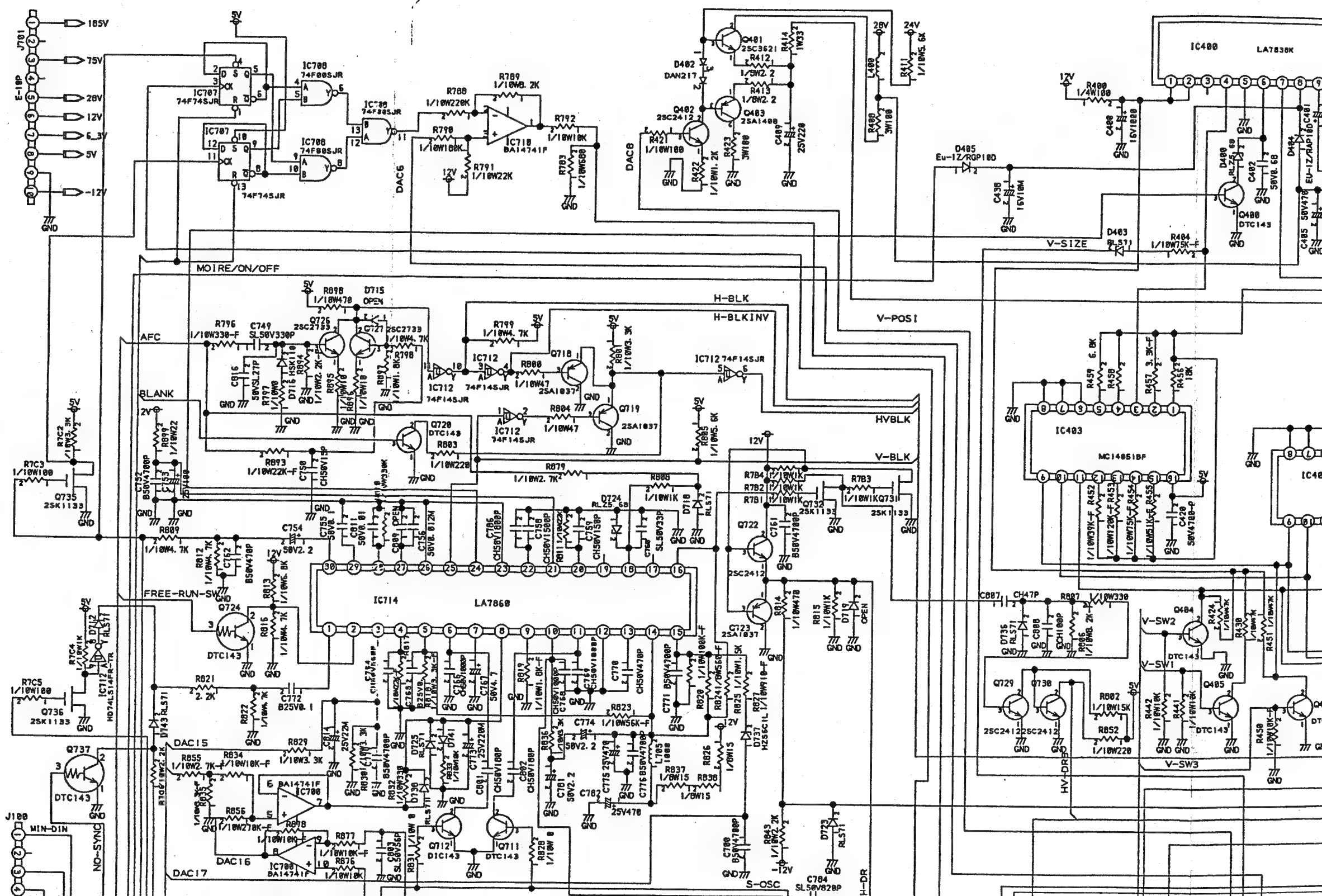
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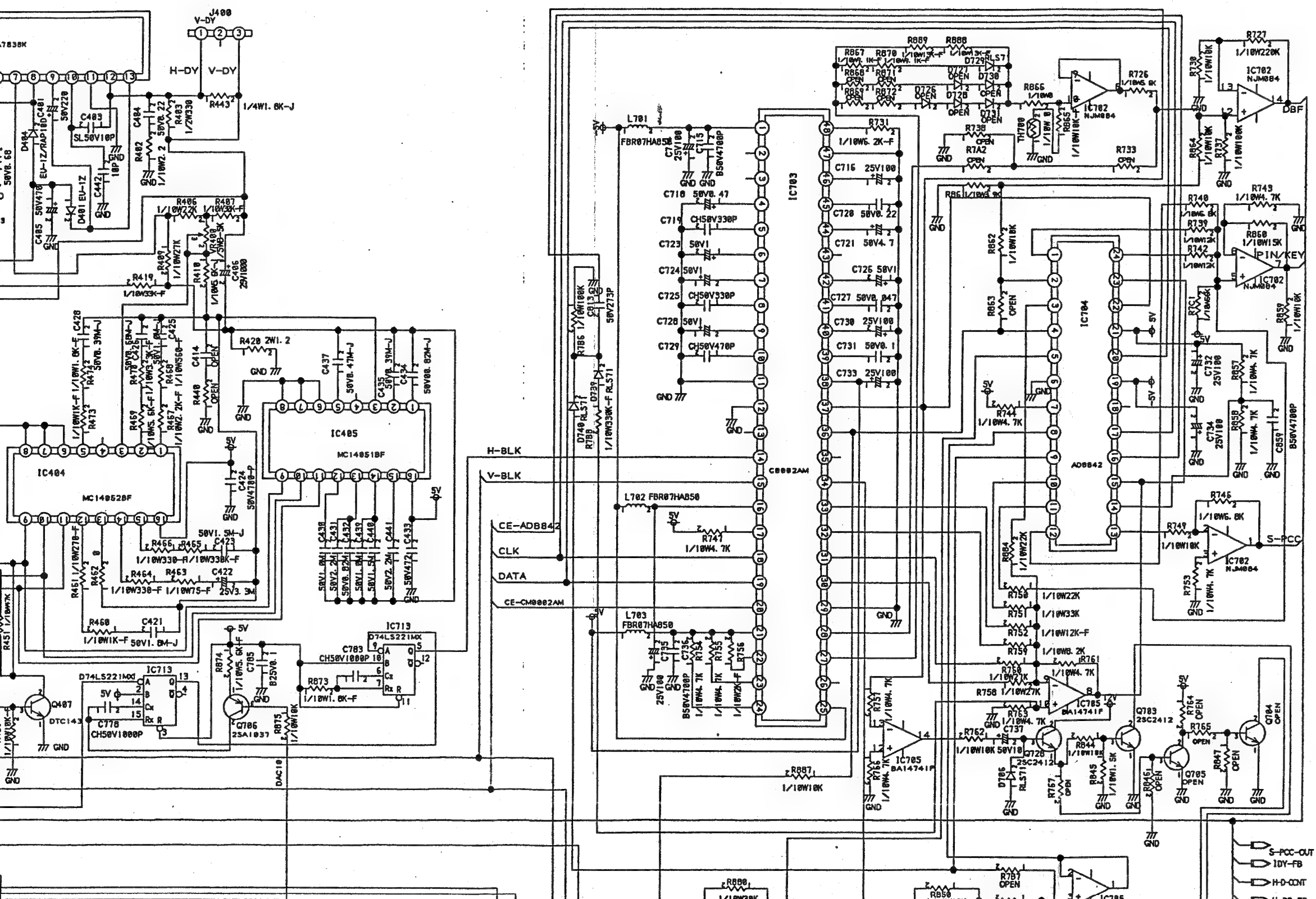
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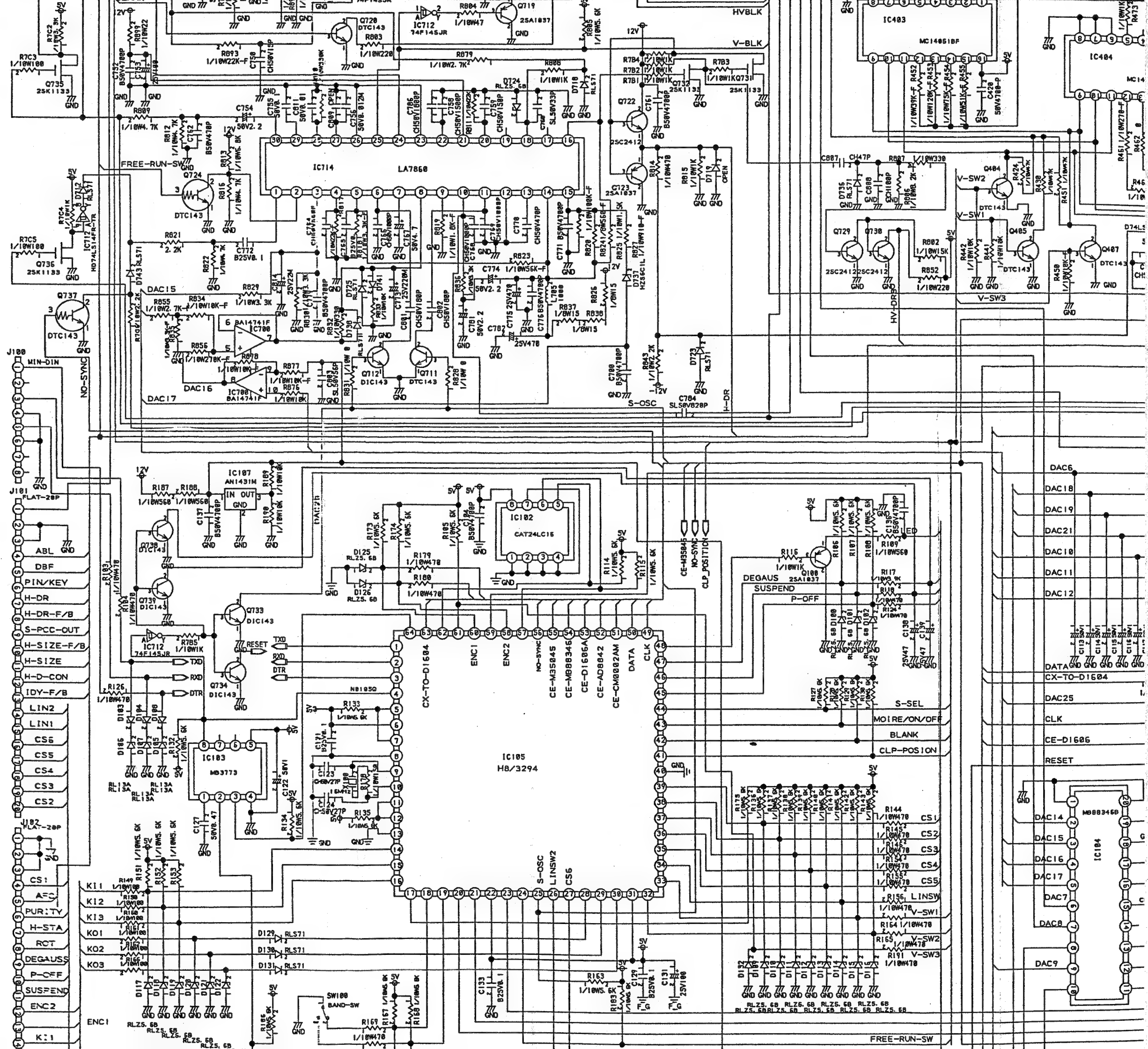
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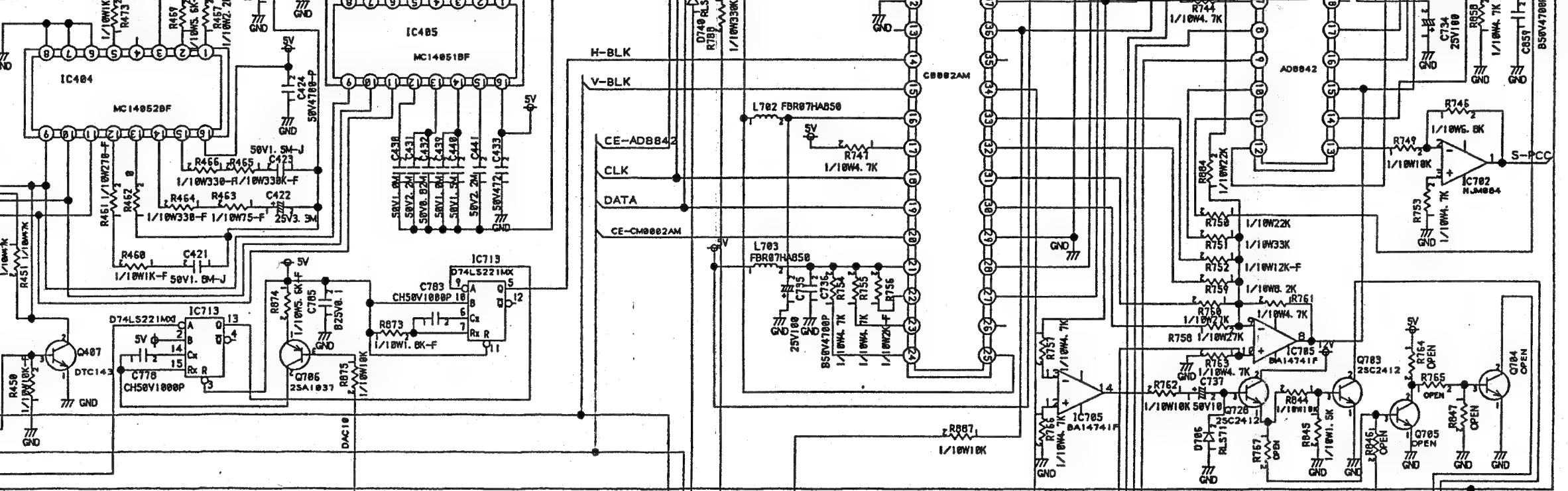
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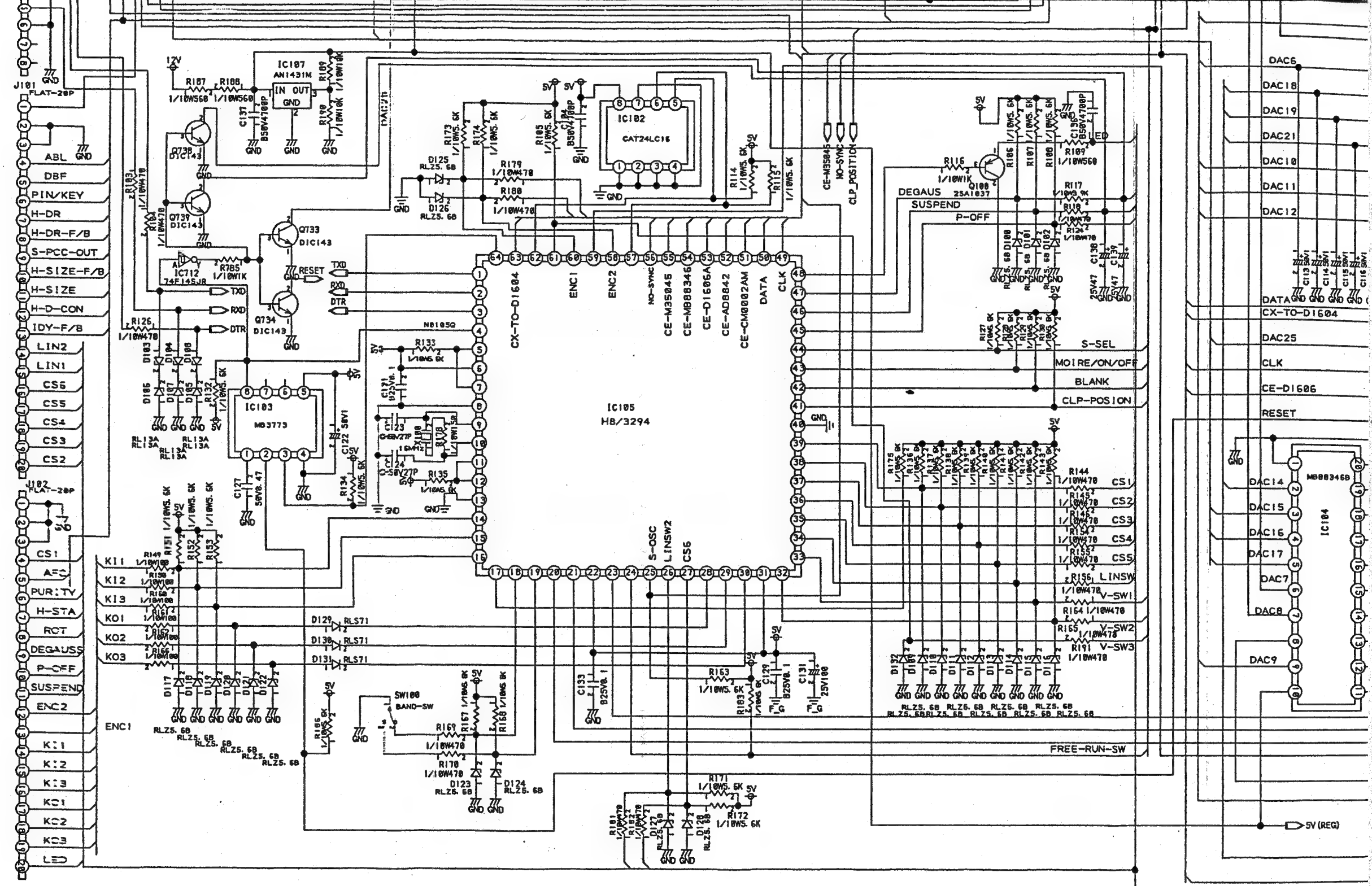
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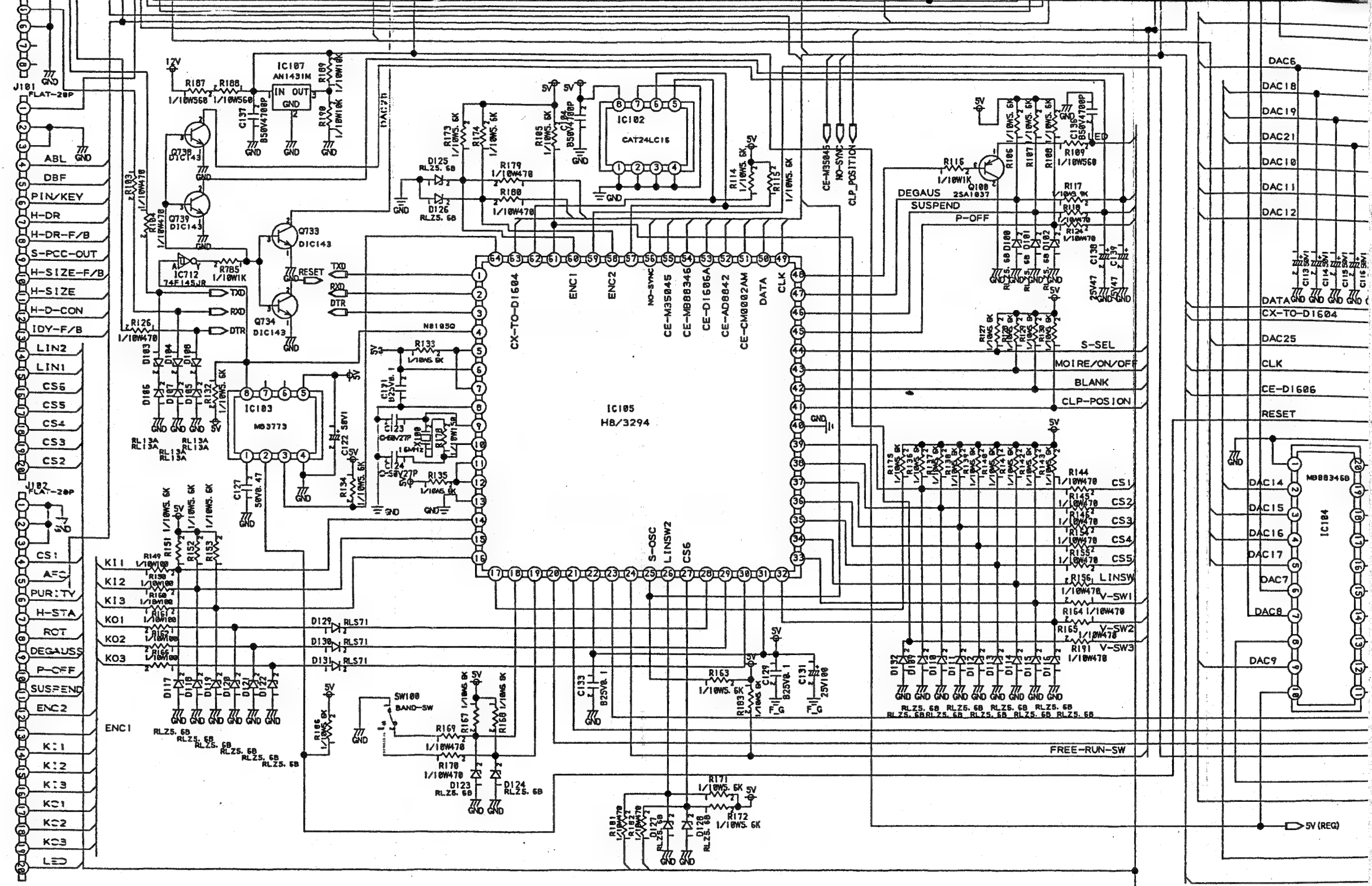
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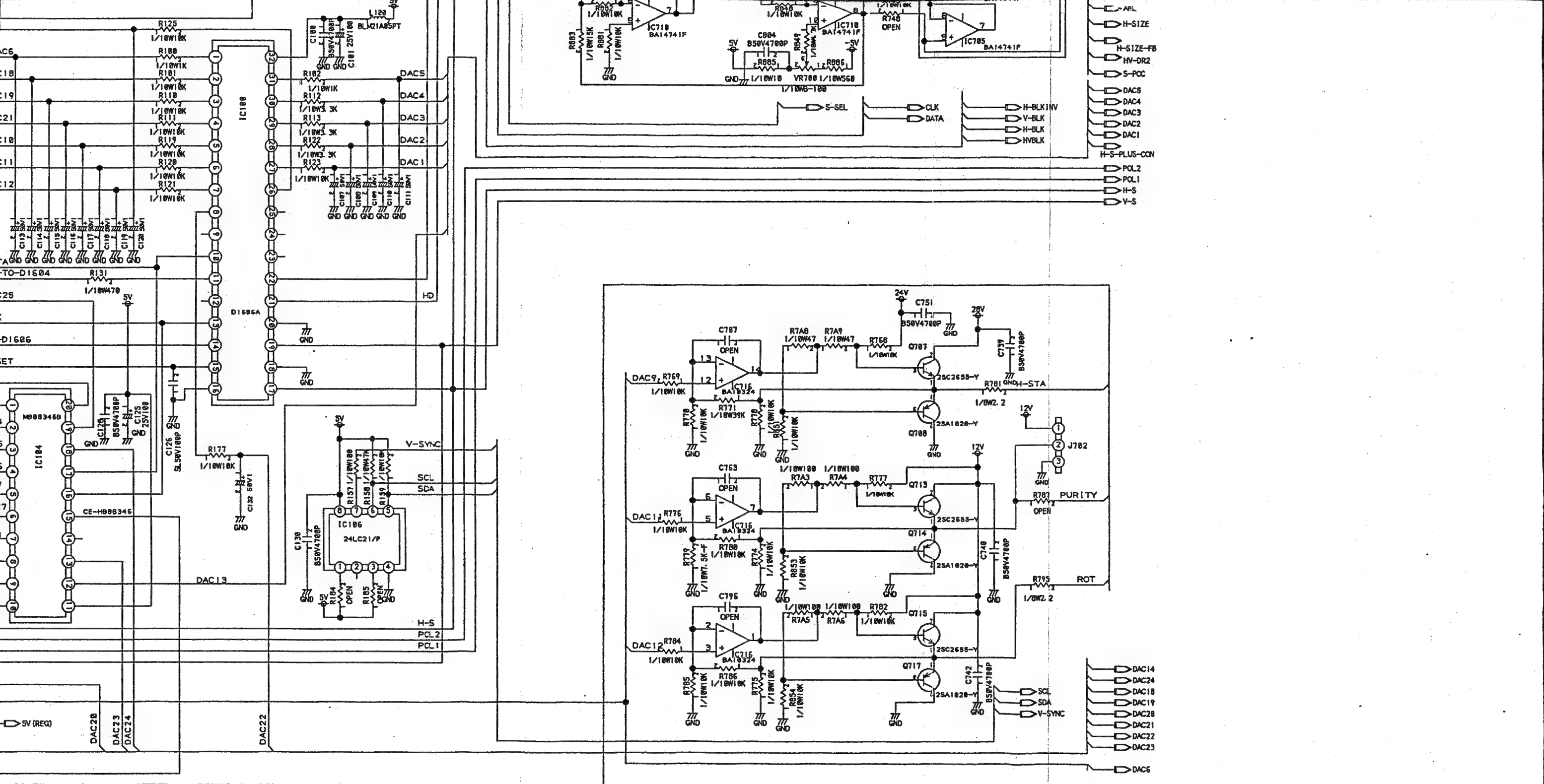
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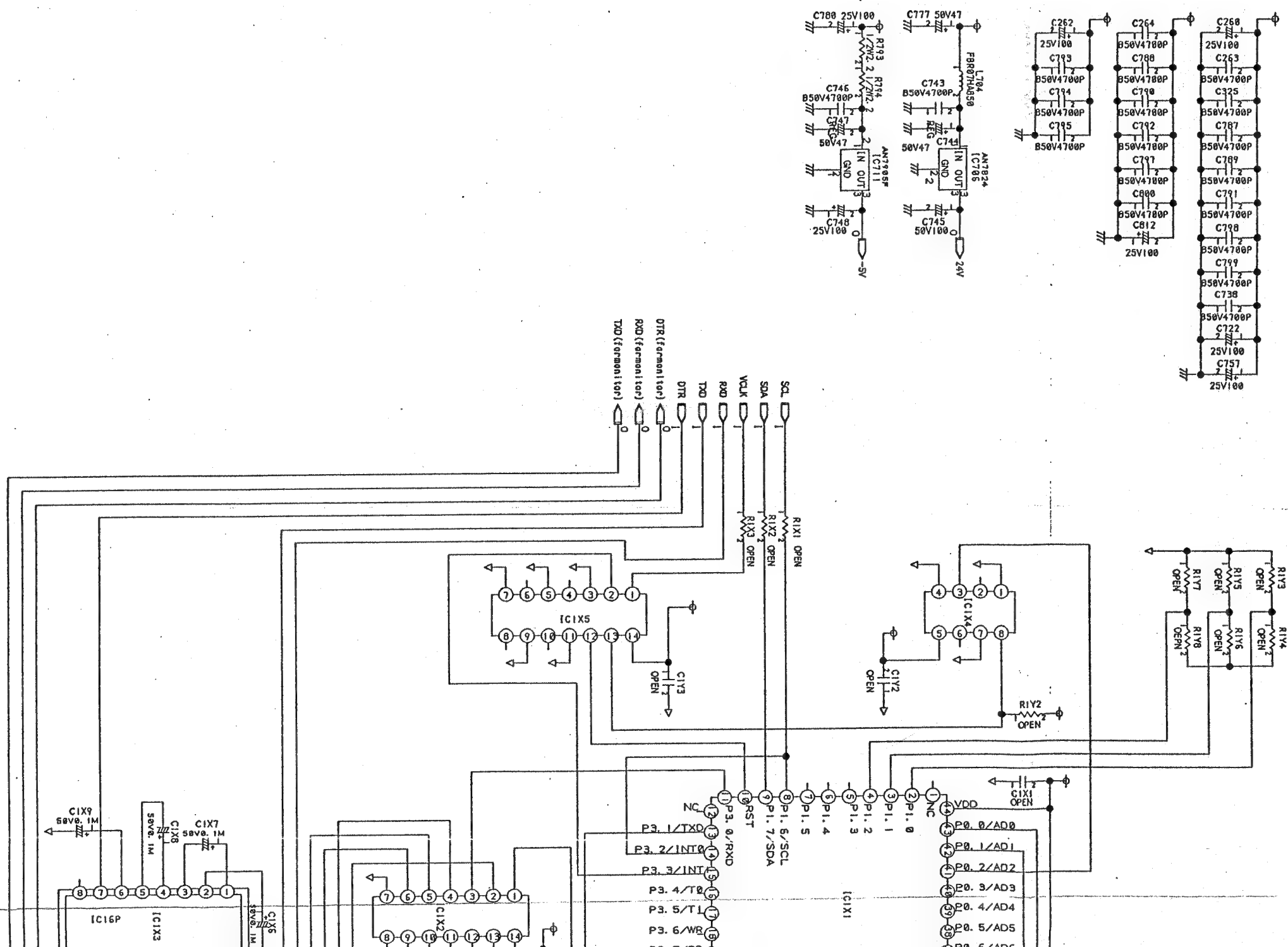


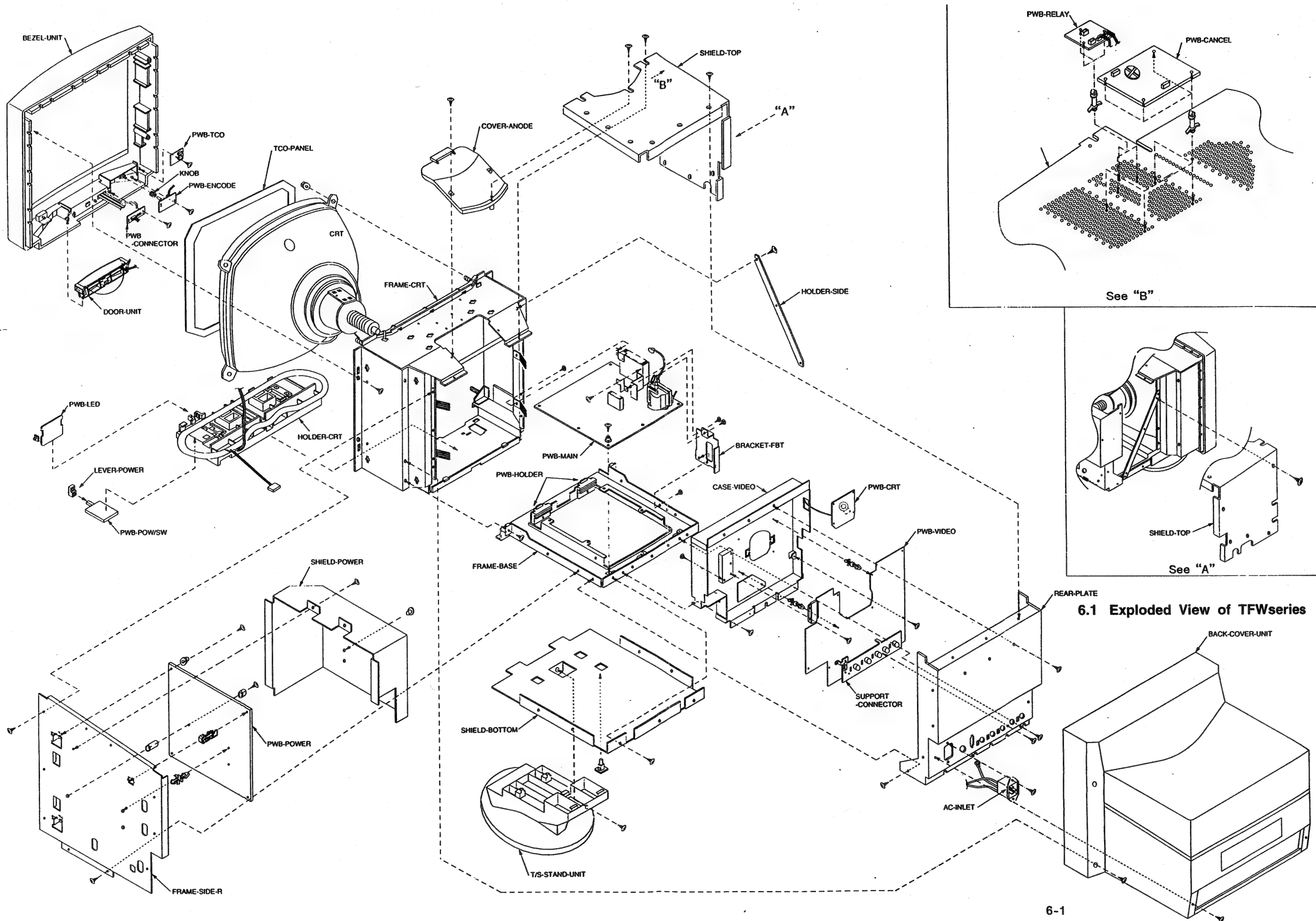
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出図用 外注用 計画	1	MITSUBISHI ELECTRIC CORPORATION NAGASAKI WORKS	作成日付 DATE		検 査 APPROVED		TITLE W-Display (CONTROL-1)
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REV							

改 定 CHANGE

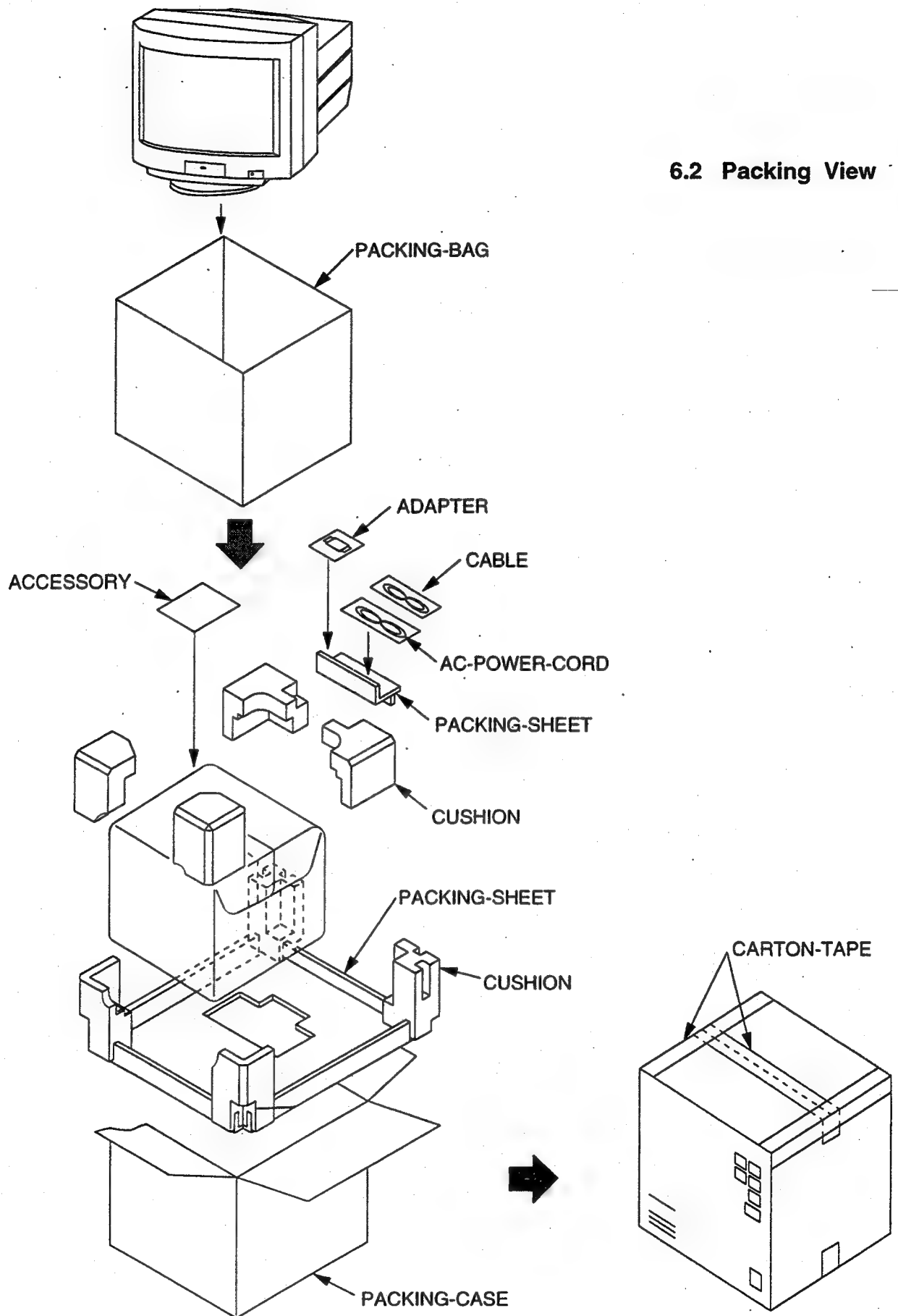
DWG NO.





6.1 Exploded View of TFWseries

6.2 Packing View



ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

ALB

318

LOT NO.

機種名 = TFW9105SKTK

機種コード = 2A-19W4-A-

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諸元	子部品コード	品名	仕様規格1	規格2	材料 証明 数
	CP242C121A20	AC-POWER-CORD	RX242D125-1		1
	CP242C201A10	CABLE	SC-B102		1
	CP246B129C70	LEAD-CONECTOR	UL1007 AWG26	TFW9105K (MI)	1
	CP246B131A10	FFC-CABLE	12P	TFW9105K	1
	CP437B008A20	CENTROL-PANEL		TFW9105K (MI)	1
	CP452P155A60	ADAPTER	AD-A205		1
	CP641A011A20	COVER-ANGRD	ABS	TFW9105K (ME)	1
	CP669D035A20	SCREW-TB-SEMS	3X8 22AA005	XC-3715C	3
	CP702A003B20	DOOR	ABS	THN9105K (ME)	1
	CP703C038A10	KNOB-VR	ABS	THN9105K (ME)	1
	CP720B050A10	BEZEL-UNIT	CP700A108-1	TFW9105K (ME)	1
	CP721B041B10	BACK-COVER-UNIT	CP700A109-1	THN9105K (ME)	1
	CP722B007B10	T/S-STAND-UNIT		FR8905K (ME)	1
	CP775C210A50	RATING-LABEL	POLYESTER-TACK 0.1	TFW9105S	1
	CP802C132A60	PACKING-CASE		TFW9105K	1
	CP850B006C50	LABEL-USE	POLYESTER-TACK 0.1	FR8905K	1
	CP850B013A10	LABEL-USE	POLYESTER-TACK 0.1	TFW9105S	1
	CP850D217A30	BAR-CODE-UPC	WHITE-PAPER 70KG	THN9105S	2
	CP850D217A90	BAR-CODE-UPC	WHITE-PAPER 70KG	TFW9105S	2
	CP859C110A10	ACCESSORY		TFW9105K	1
	CP859C110A10	ACCESSORY		TFW9105K	1
	CP859C110A10	ACCESSORY		TFW9105K	1
	CP859C110A10	ACCESSORY		TFW9105K	1
	CP859C110B10	ACCESSORY		TFW9105S	1
	CP859C110B10	ACCESSORY		TFW9105S	1
	CP859C110B10	ACCESSORY		TFW9105S	1

This page parts are exclusive use for TFW9105SKTK, MELA.

ALL PARTS LIST

SYMBOL PART NO. DESCRIPTION / SPECIFICATION QTY
 機種コード = 2A-19W4-F- 機種名 = TFW9105SKTKL-MG

諸元	子部品コード	品名	仕様規格1	規格2	材料 説明	乗 数
	CP242C099A10	AC-POWER-CORD		PM-1461C		1
	CP242C201A10	CABLE	SC-B102			1
	CP246B129C70	LEAD-CONNECTER	UL1007 AWG26	TFW9105K (MI)		1
	CP246B131A10	FFC-CABLE	12P	TFW9105K		1
	CP437B008A20	CONTROL-PANEL		TFW9105K (MI)		1
	CP452P155A60	ADAPTER	AD-A205			1
	CP641A011A20	COVER-ANBRD	ABS	TFW9105K (ME)		1
	CP669D035A20	SCREW-TB-SEMS	3X8 22AA005	XC-3715C		3
	CP702A004B20	DBBR	ABS	THN9105K (ME)		1
	CP703C038A10	KNBB-VR	ABS	THN9105K (ME)		1
	CP720B050A10	BEZEL-UNIT	CP700A108-1	TFW9105K (ME)		1
	CP721B041B10	BACK-COVER-UNIT	CP700A109-1	THN9105K (ME)		1
	CP722B007B10	T/S-STAND-UNIT		FR8905K (ME)		1
	CP775C210A60	RATING-LABEL	POLYESTER-TACK O.1	TFW9105S		1
	CP802C132A70	PACKING-CASE		TFW9105K		1
	CP850B006C50	LABEL-USE	POLYESTER-TACK O.1	FR8905K		1
	CP850B013A10	LABEL-USE	POLYESTER-TACK O.1	TFW9105S		1
	CP850D206A20	LABEL-CAUTION	WHITE-PAPER 70KG	THN9105K		1
	CP859C110A20	ACCESSORY		TFW9105K		1

..... This page parts are exclusive use for TFW9105SKTKL-MG, MEU-GER.

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

NO.

TFW9105SKTKL-MK

LOT NO.

諸元	子部品コード	品名	仕様規格1	規格2	証明数	材料
						数
	CP242C152A20	AC-POWER-CORD		(MT)	1	10-99
	CP242C201A10	CABLE	SC-B102		1	10-99
	CP246B129C70	LEAD-CONNECTOR	UL1007 AWG26	TFW9105K (MI)	1	40-99
	CP246B131A10	FFC-CABLE	12P	TFW9105K	1	40-99
	CP437B008A20	CONTROL-PANEL		TFW9105K (MI)	1	10-99
	CP452P155A60	ADAPTER	AD-A205	TFW9105K (MI)	1	10-99
	CP641A011A20	COVER-ANBRD	ABS	TFW9105K (ME)	1	40-99
	CP669D035A20	SCREW-TB-SEMS	3X8 22AA005	XC-3715C	3	40-99
	CP702A004B20	D99R	ABS	THN9105K (ME)	1	10-99
	CP703C038A10	KNBB-VR	ABS	THN9105K (ME)	1	10-99
	CP720B050A10	BEZEL-UNIT	CP700A108-1	TFW9105K (ME)	1	10-99
	CP721B041B10	BACK-COVER-UNIT	CP700A109-1	THN9105K (ME)	1	10-99
	CP722B007B10	T/S-STAND-UNIT		FR8905K (ME)	1	10-99
	CP775C210A60	RATING-LABEL	POLYESTER-TACK 0.1	TFW9105S	1	10-99
	CP802C132A70	PACKING-CASE		TFW9105K	1	10-99
	CP850B006C50	LABEL-USE	POLYESTER-TACK 0.1	FR8905K	1	10-19
	CP850B013A10	LABEL-USE	POLYESTER-TACK 0.1	TFW9105S	1	20-99
	CP850D180A10	LABEL	LABEL		1	10-99
	CP850D206A20	LABEL-CAUTION	WHITE-PAPER 70KG	THN9105K	1	10-99
	CP859C110A20	ACCESSORY		TFW9105K	1	10-99

This page parts are exclusive use for TFW9105SKTKL-MK, MEU-UK.

品名	仕様規格 1	規格 2	材料 乗 証明 数
CP242C107B20	AC-POWER-CORD	FA3425KE	1
CP242C201A10	CABLE	SC-B102	1
CP437B008A20	CENTROL-PANEL	TFW9105K (MI)	1
CP452P155A60	ADAPTER	AD-A205	1
CP641A011A20	COVER-ANGRD	TFW9105K (ME)	1
CP669D035A20	SCREW-TB-SEMS	XC-3715C	3
CP702A004B20	DEGR	THN9105K (ME)	1
CP703C038A10	KNBB-VR	THN9105K (ME)	1
CP720B050A10	BEZEL-UNIT	TFW9105K (ME)	1
CP721B041B10	BACK-COVER-UNIT	THN9105K (ME)	1
CP722B007B10	T/S-STAND-UNIT	FR8905K (ME)	1
CP775C210A70	RATING-LABEL	TFW9105S	1
CP802C132A70	PACKING-CASE	TFW9105K	1
CP850B006C50	LABEL-USE	FR8905K	1
CP850B013A10	LABEL-USE	TFW9105S	1
CP850D206A20	LABEL-CAUTION	THN9105K	1
CP850D213A40	LABEL		2
CP859C110A20	ACCESSORY	TFW9105K	1

This page parts are exclusive use for TFW9105SKTKL-AS, ME-AUST.

ALL PARTS LIST

SYMBOL PART NO. DESCRIPTION / SPECIFICATION

QTY

NO.

機種名 = 2A-19W4-B- 機種名 = TFW9105SKTKW-NL

品名	仕樣規格1	規格2	材料	数量
子部品コード	品名	仕樣規格1	規格2	数量
CP242C121A20	AC-POWER-CORD	RX242D125-1		1
CP242C201A10	CABLE	SC-B102		1
CP246B129C70	LEAD-CONNECTOR	UL1007 AWG26	TFW9105K (MI)	10-99
CP246B131A10	FFC-CABLE	12P	TFW9105K	57-99
CP437B008A20	CONTROL-PANEL		TFW9105K (MI)	10-99
CP641A011A20	COVER-ANGRD	ABS	TFW9105K (ME)	57-99
CP669D035A20	SCREW-TB-SEMS	3X8 22AA005	XC-3715C	57-99
CP702A004B20	DOOR	ABS	THN9105K (ME)	10-99
CP703C038A10	KNGB-VR	ABS	THN9105K (ME)	10-99
CP720B044A40	BEZEL-UNIT	CP700A108-1	THN9105K	10-99
CP721B041B10	BACK-COVER-UNIT	CP700A109-1	THN9105K (ME)	10-99
CP722B007B10	T/S-STAND-UNIT		FR8905K (ME)	10-99
CP775C210A90	RATING-LABEL	POLYESTER-TACK 0.1	TFW9105S	10-99
CP802C132A90	PACKING-CASE		TFW9105K	10-99
CP850B006C50	LABEL-USE	POLYESTER-TACK 0.1	FR8905K	10-19
CP850B013A10	LABEL-USE	POLYESTER-TACK 0.1	TFW9105S	20-99
CP850D206A20	LABEL-CAUTION	WHITE-PAPER 70KG	THN9105K	10-99
CP859C110A40	ACCESSORY		TFW9105K	10-99

This page parts are exclusive use for TFW9105SKTKW-NL, No Logo.

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種コード = 2A-19W4- - - 機種名 = 1FW9105K

品名	仕様規格 1	仕様規格 2	証明 数
子部品コード	品名	仕様規格 1	仕様規格 2
CH010H451B10	PVC-UL-WR	45MM	20-99
CH010H501C10	PVC-UL-WR	50MM	20-99
CH010H951G10	PVC-UL-WR	95MM	20-20
CH010H951G10	PVC-UL-WR	95MM	40-40
CH010H951G10	PVC-UL-WR	95MM	50-50
CH011H111E10	PVC-UL-WR	110MM	20-20
CH011H111E10	PVC-UL-WR	110MM	40-40
CH011H111E10	PVC-UL-WR	110MM	50-50
CH011H131E10	PVC-UL-WR	130MM	30-30
CH011H131E10	PVC-UL-WR	130MM	51-99
CH540H259Z90	PVC-TUBE-UL	7/8 25L	30-99
CP071P002A10	ACETATE-TAPE	0.24-19X3000	20-60
CP071P002A10	ACETATE-TAPE	0.24-19X3000	62-63
CP071P002A10	ACETATE-TAPE	0.24-19X3000	64-65
CP071P002A10	ACETATE-TAPE	0.24-19X3000	66-67
CP071P002A10	ACETATE-TAPE	0.24-19X3000	68-99
CP081P001A10	SILICONE-GUM	150G 1/2" L-TSE3940"	10-99
CP096P004A10	MASKING-TAPE	19X50M CREAM	10-99
CP096P009A10	TAPE-AL	CCT-20-A	20-99
R 604	R-METAL-S	1/4W 82-F	820 RN-H
R 905	R-METAL-S	1/4W 130-F	131 RN-H
R 996	R-METAL-S	1/4W 130-F	131 RN-H
R 617	R-METAL-S	1/4W 330-F	331 RN-H
R 5F4	R-METAL-S	1/4W 680-F	102 RN-H
R 5B2	R-METAL-S	1/4W 1K-F	102 RN-H
R 5F4	R-METAL-S	1/4W 1K-F	102 RN-H
R 945	R-METAL-S	1/4W 2.2K-F	222 RN-H
R 957	R-METAL-S	1/4W 2.4K-F	242 RN-H
R 998	R-METAL-S	1/4W 2.4K-F	242 RN-H
R 953	R-METAL-S	1/4W 2.7K-F	272 RN-H
R 5F2	R-METAL-S	1/4W 3K-F	302 RN-H
R 5F2	R-METAL-S	1/4W 3.9K-F	392 RN-H (DH)
R 611	R-METAL-S	1/4W 4.3K-F 432 RN-H	432 RN-H
R 997	R-METAL-S	1/4W 4.3K-F 432 RN-H	432 RN-H
R 6F3	R-METAL-S	1/4W 4.7K-F 472RN-H	472RN-H
R 5F1	R-METAL-S	1/4W 5.6K-F	562 RN-H
R 6G4	R-METAL-S	1/4W 5.6K-F	562 RN-H
R 6G7	R-METAL-S	1/4W 5.6K-F	562 RN-H
R 6F7	R-METAL-S	1/4W 6.8K-F 682 RN-H	682 RN-H
R 6F8	R-METAL-S	1/4W 7.5K-F	752 RN-H
R 609	R-METAL-S	1/4W 7.5K-F	752 RN-H
R 952	R-METAL-S	1/4W 9.1K-F	912 RN-H (DH)
R 5A7	R-METAL-S	1/4W 18K-F 183 RN-H	183 RN-H
R 5A9	R-METAL-S	1/4W 33K-F 333RN-H	333RN-H
R 5A2	R-METAL-S	1/4W 39K-F	393 RN-H (DH)
R 506	R-METAL-S	1/4W 39K-F	393 RN-H (DH)
R 505	R-METAL-S	1/4W 51K-F	512 RN-H
R 604	R-METAL-S	1/4W 82K-F	823 RN-H
R 955	R-METAL-S	1/4W 82K-F	823 RN-H
R 608	R-METAL-S	1/4W 100K-F	104 RN-H
R 951	R-METAL-S	1/4W 100K-F	104 RN-H

DESCRIPTION / SPECIFICATION

QTY

PART NO.

LOT NO.

機種コード = 2A-19W4- - - 機種名 = TFW9105K

品名	仕機	原価	材料
品名	仕機	原価	材料
R 617 CP103P071A31 R-METAL-S	1/4W 330K-F		20-99
R 287 CP103P091A51 R-CARBEN-CHIP	1/4W 82-J		20-99
R 289 CP103P091A51 R-CARBEN-CHIP	1/4W 82-J		20-99
R 208 CP103P092A41 R-CARBEN-CHIP	1/4W 470-J		10-99
R 220 CP103P092A41 R-CARBEN-CHIP	1/4W 470-J		10-99
R 229 CP103P092A41 R-CARBEN-CHIP	1/4W 470-J		10-99
R 204 CP103P092A51 R-CARBEN-CHIP	1/4W 560-J		10-99
R 216 CP103P092A51 R-CARBEN-CHIP	1/4W 560-J		10-99
R 226 CP103P092A51 R-CARBEN-CHIP	1/4W 560-J		10-99
R 212 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 212 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 212 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 213 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 213 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 213 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 213 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 214 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 214 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 214 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 214 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 358 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 358 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 358 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 359 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 359 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 359 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 360 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 360 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 360 CP103P098A01 R-CARBEN-CHIP	1/4W 75-J		10-99
R 402 CP103P100A11 R-CARBEN-CHIP	1/10W 2.2-K		10-99
R 402 CP103P100A11 R-CARBEN-CHIP	1/10W 2.2-K		10-99
R 402 CP103P100A11 R-CARBEN-CHIP	1/10W 2.2-K		10-99
R 109 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 895 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 896 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 201 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 206 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 207 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 215 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 219 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 223 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 225 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 228 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 231 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 236 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 258 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99
R 259 CP103P100A41 R-CARBEN-CHIP	1/10W 10-J		10-99

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種コード = 2A-19W4- - - 機種名 = TFW9105K

諸元	子部品コード	品名	仕様規格 1	規格 2	材料 表
R 285	CP103P100A41	R-CARBON-CHIP	1/10W 10-J		10-99
R 332	CP103P100A41	R-CARBON-CHIP	1/10W 10-J		10-99
R 334	CP103P100A41	R-CARBON-CHIP	1/10W 10-J		10-99
R 266	CP103P100A71	R-CARBON-CHIP	1/10W 18-J		10-78
R 266	CP103P100A71	R-CARBON-CHIP	1/10W 18-J		79-99
R 899	CP103P100A81	R-CARBON-CHIP	1/10W 22-J		10-99
R 205	CP103P101A01	R-CARBON-CHIP	1/10W 33-J		10-19
R 217	CP103P101A01	R-CARBON-CHIP	1/10W 33-J		10-19
R 227	CP103P101A01	R-CARBON-CHIP	1/10W 33-J		10-19
R 253	CP103P101A11	R-CARBON-CHIP	1/10W 39-J		10-99
R 254	CP103P101A11	R-CARBON-CHIP	1/10W 39-J		10-99
R 255	CP103P101A11	R-CARBON-CHIP	1/10W 39-J		10-99
R 748	CP103P101A21	R-CARBON-CHIP	1/10W 47-J		10-99
R 749	CP103P101A21	R-CARBON-CHIP	1/10W 47-J		10-99
R 800	CP103P101A21	R-CARBON-CHIP	1/10W 47-J		10-99
R 804	CP103P101A21	R-CARBON-CHIP	1/10W 47-J		10-99
R 149	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 150	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 157	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 160	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 161	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 162	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 166	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 743	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 744	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 745	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 746	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 789	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 7C3	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 7C5	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 200	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 209	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 210	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 221	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 222	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 230	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 235	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 239	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 248	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 251	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 252	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 256	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 257	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 268	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 303	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 305	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 307	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 397	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 398	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 421	CP103P101A61	R-CARBON-CHIP	1/10W 100-J		10-99
R 178	CP103P101A81	R-CARBON-CHIP	1/10W 150-J		10-99
R 292	CP103P101A91	R-CARBON-CHIP	1/10W 180-J		10-19

NO.

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種名 TF9105K

機種コード = 2A-19W4-

品元	子部品コード	品名	仕様規格1	規格2	材料 説明	数量
396	CP103P101A91	R-CARBON-CHIP	1/10W 180-J		10-99	1
803	CP103P102A01	R-CARBON-CHIP	1/10W 220-J		10-99	1
852	CP103P102A01	R-CARBON-CHIP	1/10W 220-J		10-99	1
299	CP103P102A11	R-CARBON-CHIP	1/10W 270-J		10-99	1
807	CP103P102A21	R-CARBON-CHIP	1/10W 330-J		10-99	1
832	CP103P102A21	R-CARBON-CHIP	1/10W 330-J		10-99	1
205	CP103P102A21	R-CARBON-CHIP	1/10W 330-J		20-99	1
217	CP103P102A21	R-CARBON-CHIP	1/10W 330-J		20-99	1
227	CP103P102A21	R-CARBON-CHIP	1/10W 330-J		10-99	1
103	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
104	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
118	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
124	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
126	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
131	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
144	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
145	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
146	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
154	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
155	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
156	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
164	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
165	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
169	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
170	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
179	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
180	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
181	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
182	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
191	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
814	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
898	CP103P102A41	R-CARBON-CHIP	1/10W 470-J		10-99	1
187	CP103P102A51	R-CARBON-CHIP	1/10W 560-J		10-99	1
188	CP103P102A51	R-CARBON-CHIP	1/10W 560-J		10-99	1
885	CP103P102A51	R-CARBON-CHIP	1/10W 560-J		10-99	1
886	CP103P102A51	R-CARBON-CHIP	1/10W 560-J		10-99	1
324	CP103P102A51	R-CARBON-CHIP	1/10W 560-J		10-99	1
783	CP103P102A61	R-CARBON-CHIP	1/10W 680-J		10-99	1
292	CP103P102A61	R-CARBON-CHIP	1/10W 680-J		10-99	1
325	CP103P102A61	R-CARBON-CHIP	1/10W 680-J		10-99	1
100	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1
102	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1
116	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1
117	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		10-30	1
117	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		1-99	1
781	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1
782	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1
783	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1
784	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1
785	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1
808	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1
815	CP103P102A81	R-CARBON-CHIP	1/10W 1K-J		0-99	1

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種名 = TFW9105K

部材	部品コード	品名	仕様規格 1	規格 2	材料	数量
R 7C4	CP103P102A81	R-CARBEN-CHIP	1/10W 1K-J		10-99	1
R 203	CP103P102A81	R-CARBEN-CHIP	1/10W 1K-J		10-99	1
R 291	CP103P102A81	R-CARBEN-CHIP	1/10W 1K-J		10-99	1
R 331	CP103P102A81	R-CARBEN-CHIP	1/10W 1K-J		10-99	1
R 335	CP103P102A81	R-CARBEN-CHIP	1/10W 1K-J		10-99	1
R 356	CP103P102A81	R-CARBEN-CHIP	1/10W 1K-J		10-99	1
R 422	CP103P102A91	R-CARBEN-CHIP	1/10W 1.2K-J		10-99	1
R 825	CP103P103A01	R-CARBEN-CHIP	1/10W 1.5K-J		10-99	1
R 845	CP103P103A01	R-CARBEN-CHIP	1/10W 1.5K-J		10-99	1
R 395	CP103P103A01	R-CARBEN-CHIP	1/10W 1.5K-J		10-99	1
R 897	CP103P103A11	R-CARBEN-CHIP	1/10W 1.8K-J		10-99	1
R 821	CP103P103A21	R-CARBEN-CHIP	1/10W 2.2K-J		10-99	1
R 843	CP103P103A21	R-CARBEN-CHIP	1/10W 2.2K-J		10-99	1
R 7C6	CP103P103A21	R-CARBEN-CHIP	1/10W 2.2K-J		10-99	1
R 261	CP103P103A21	R-CARBEN-CHIP	1/10W 2.2K-J		10-99	1
R 270	CP103P103A21	R-CARBEN-CHIP	1/10W 2.2K-J		10-99	1
R 281	CP103P103A21	R-CARBEN-CHIP	1/10W 2.2K-J		10-99	1
R 333	CP103P103A21	R-CARBEN-CHIP	1/10W 2.2K-J		10-99	1
R 714	CP103P103A31	R-CARBEN-CHIP	1/10W 2.7K-J		10-99	1
R 879	CP103P103A31	R-CARBEN-CHIP	1/10W 2.7K-J		10-99	1
R 112	CP103P103A41	R-CARBEN-CHIP	1/10W 3.3K-J		10-99	1
R 113	CP103P103A41	R-CARBEN-CHIP	1/10W 3.3K-J		10-99	1
R 122	CP103P103A41	R-CARBEN-CHIP	1/10W 3.3K-J		10-99	1
R 7A7	CP103P103A41	R-CARBEN-CHIP	1/10W 3.3K-J		10-99	1
R 801	CP103P103A41	R-CARBEN-CHIP	1/10W 3.3K-J		10-99	1
R 829	CP103P103A41	R-CARBEN-CHIP	1/10W 3.3K-J		10-99	1
R 830	CP103P103A41	R-CARBEN-CHIP	1/10W 3.3K-J		10-99	1
R 836	CP103P103A41	R-CARBEN-CHIP	1/10W 3.3K-J		10-99	1
R 7C2	CP103P103A51	R-CARBEN-CHIP	1/10W 3.9K-J		10-99	1
R 117	CP103P103A51	R-CARBEN-CHIP	1/10W 3.9K-J		10-99	1
R 117	CP103P103A51	R-CARBEN-CHIP	1/10W 3.9K-J		10-99	1
R 715	CP103P103A51	R-CARBEN-CHIP	1/10W 3.9K-J		10-99	1
R 861	CP103P103A51	R-CARBEN-CHIP	1/10W 3.9K-J		10-99	1
R 890	CP103P103A51	R-CARBEN-CHIP	1/10W 3.9K-J		10-99	1
R 233	CP103P103A51	R-CARBEN-CHIP	1/10W 3.9K-J		10-99	1
R 237	CP103P103A51	R-CARBEN-CHIP	1/10W 3.9K-J		10-99	1
R 241	CP103P103A51	R-CARBEN-CHIP	1/10W 3.9K-J		10-99	1
R 702	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 706	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 717	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 743	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 744	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 747	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 753	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 754	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 755	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 757	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 761	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 763	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 766	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1
R 772	CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J		10-99	1

機種コード = 2A-19W4- - 機種名 = TFW9105K

品名	仕様規格 1	規格 2	材料 数
子部品コード	品名		
R 773 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 798 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 799 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 809 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 812 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 816 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 822 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 849 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 857 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 858 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 202 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 308 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 357 CP103P103A61	R-CARBEN-CHIP	1/10W 4.7K-J	
R 105 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 106 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 107 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 108 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 114 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 115 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 127 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 128 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 129 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 130 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 132 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 133 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 134 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 135 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 136 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 137 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 138 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 139 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 140 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 141 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 142 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 143 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 151 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 152 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 153 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 163 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 167 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 168 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 171 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 172 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 173 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 174 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 175 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 186 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 725 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 726 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 805 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 296 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	
R 410 CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J	

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種コード = 2A-19W4- - 機種名 = TFW9105K

諸元	子部品コード	品名	仕様規格 1	規格 2	材料 数
R 411	CP103P103A71	R-CARBEN-CHIP	1/10W 5.6K-J		10-99
R 740	CP103P103A81	R-CARBEN-CHIP	1/10W 6.8K-J		10-99
R 813	CP103P103A81	R-CARBEN-CHIP	1/10W 6.8K-J		10-99
R 410	CP103P103A81	R-CARBEN-CHIP	1/10W 6.8K-J		10-99
R 759	CP103P103A91	R-CARBEN-CHIP	1/10W 8.2K-J		10-99
R 789	CP103P103A91	R-CARBEN-CHIP	1/10W 8.2K-J		10-99
R 101	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 110	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 111	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 119	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 120	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 121	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 123	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 125	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 159	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 177	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 7A1	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 705	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 713	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 716	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 722	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 723	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 730	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 741	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 745	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 749	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 762	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 768	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 769	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 770	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 774	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 775	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 776	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 777	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 779	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 780	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 782	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 784	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 786	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 792	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 828	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 831	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 833	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 844	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 848	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 850	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 851	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 853	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 854	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 859	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99
R 862	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J		10-99

機種名 = TFW9105K

2A-19W4-

品名	仕様規格 1	規格 2	材料 集	LOT NO.
子部品コード	品名	仕様規格 1	規格 2	材料 集
R 864	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 875	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 876	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 881	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 882	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 887	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 891	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 234	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 238	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 242	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 243	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 244	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 245	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 246	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 290	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 327	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 328	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 329	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 330	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 441	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 442	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 450	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 399	CP103P104A01	R-CARBEN-CHIP	1/10W 10K-J	10-99
R 739	CP103P104A11	R-CARBEN-CHIP	1/10W 12K-J	10-99
R 742	CP103P104A11	R-CARBEN-CHIP	1/10W 12K-J	10-99
R 785	CP103P104A11	R-CARBEN-CHIP	1/10W 12K-J	10-99
R 297	CP103P104A11	R-CARBEN-CHIP	1/10W 12K-J	10-99
R 298	CP103P104A11	R-CARBEN-CHIP	1/10W 12K-J	10-99
R 802	CP103P104A21	R-CARBEN-CHIP	1/10W 15K-J	10-99
R 860	CP103P104A21	R-CARBEN-CHIP	1/10W 15K-J	10-99
R 883	CP103P104A21	R-CARBEN-CHIP	1/10W 15K-J	10-99
R 351	CP103P104A21	R-CARBEN-CHIP	1/10W 15K-J	10-19
R 353	CP103P104A21	R-CARBEN-CHIP	1/10W 15K-J	10-19
R 355	CP103P104A21	R-CARBEN-CHIP	1/10W 15K-J	10-19
R 732	CP103P104A41	R-CARBEN-CHIP	1/10W 22K-J	10-99
R 750	CP103P104A41	R-CARBEN-CHIP	1/10W 22K-J	10-99
R 791	CP103P104A41	R-CARBEN-CHIP	1/10W 22K-J	10-99
R 811	CP103P104A41	R-CARBEN-CHIP	1/10W 22K-J	10-99
R 406	CP103P104A41	R-CARBEN-CHIP	1/10W 22K-J	10-99
R 758	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 760	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 262	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 263	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 264	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 265	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 271	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 272	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 273	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 274	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 282	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 283	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99
R 294	CP103P104A51	R-CARBEN-CHIP	1/10W 27K-J	10-99

ALL PARIS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

NO.

QTY

LOT NO.

價目表 = 2A-19W4- - - 價目表 = TFW9105K

諸元	子部品コード	品名	仕様規格 1	規格 2	材料 乗 証明 数
R 295	CP103P104A51	R-CARBON-CHIP	1/10W 27K-J		10-99
R 409	CP103P104A51	R-CARBON-CHIP	1/10W 27K-J		10-99
R 711	CP103P104A61	R-CARBON-CHIP	1/10W 33K-J		10-99
R 719	CP103P104A61	R-CARBON-CHIP	1/10W 33K-J		10-99
R 751	CP103P104A61	R-CARBON-CHIP	1/10W 33K-J		10-99
R 440	CP103P104A61	R-CARBON-CHIP	1/10W 33K-J		10-69
R 771	CP103P104A71	R-CARBON-CHIP	1/10W 39K-J		10-99
R 158	CP103P104A81	R-CARBON-CHIP	1/10W 47K-J		10-99
R 424	CP103P104A81	R-CARBON-CHIP	1/10W 47K-J		10-99
R 430	CP103P104A81	R-CARBON-CHIP	1/10W 47K-J		10-99
R 451	CP103P104A81	R-CARBON-CHIP	1/10W 47K-J		10-99
R 350	CP103P104A91	R-CARBON-CHIP	1/10W 56K-J		10-99
R 352	CP103P104A91	R-CARBON-CHIP	1/10W 56K-J		10-99
R 354	CP103P104A91	R-CARBON-CHIP	1/10W 56K-J		10-99
R 404	CP103P105A11	R-CARBON-CHIP	1/10W 82K-J		10-19
R 718	CP103P105A21	R-CARBON-CHIP	1/10W 100K-J		10-99
R 737	CP103P105A21	R-CARBON-CHIP	1/10W 100K-J		10-99
R 786	CP103P105A21	R-CARBON-CHIP	1/10W 100K-J		10-99
R 275	CP103P105A21	R-CARBON-CHIP	1/10W 100K-J		10-99
R 276	CP103P105A21	R-CARBON-CHIP	1/10W 100K-J		10-99
R 277	CP103P105A21	R-CARBON-CHIP	1/10W 100K-J		10-99
R 284	CP103P105A21	R-CARBON-CHIP	1/10W 100K-J		10-99
R 724	CP103P105A41	R-CARBON-CHIP	1/10W 150K-J		10-99
R 735	CP103P105A41	R-CARBON-CHIP	1/10W 150K-J		10-99
R 790	CP103P105A51	R-CARBON-CHIP	1/10W 180K-J		10-99
R 727	CP103P105A61	R-CARBON-CHIP	1/10W 220K-J		10-99
R 788	CP103P105A61	R-CARBON-CHIP	1/10W 220K-J		10-99
R 280	CP103P105A61	R-CARBON-CHIP	1/10W 220K-J		10-99
R 260	CP103P105A61	R-CARBON-CHIP	1/10W 220K-J		10-99
R 280	CP103P105A61	R-CARBON-CHIP	1/10W 220K-J		10-99
R 710	CP103P105A81	R-CARBON-CHIP	1/10W 330K-J		10-99
R 810	CP103P105A81	R-CARBON-CHIP	1/10W 330K-J		10-99
R 797	CP103P107A21	R-CARBON-CHIP	1/10W 0 JUMPER		10-99
R 828	CP103P107A21	R-CARBON-CHIP	1/10W 0 JUMPER		20-99
R 831	CP103P107A21	R-CARBON-CHIP	1/10W 0 JUMPER		20-99
R 866	CP103P107A21	R-CARBON-CHIP	1/10W 0 JUMPER		10-99
R 122	CP103P107A21	R-CARBON-CHIP	1/10W 0 JUMPER		10-99
R 123	CP103P107A21	R-CARBON-CHIP	1/10W 0 JUMPER		10-99
R 1Y1	CP103P107A21	R-CARBON-CHIP	1/10W 0 JUMPER		10-99
R 462	CP103P107A21	R-CARBON-CHIP	1/10W 0 JUMPER		10-99
TH700	CP103P107A21	R-CARBON-CHIP	1/10W 0 JUMPER		60-99
R 394	CP103P107A51	R-CARBON-CHIP	1/10W 2.4K-J		10-69
R 404	CP103P110A71	R-CARBON-CHIP	1/10W 75K-F		70-99
R 454	CP103P110A71	R-CARBON-CHIP	1/10W 75K-F		20-99
R 313	CP103P111A21	R-CARBON-CHIP	1/10W 51-F		20-99
R 317	CP103P111A21	R-CARBON-CHIP	1/10W 51-F		70-99
R 321	CP103P111A21	R-CARBON-CHIP	1/10W 51-F		10-19
R 300	CP103P111A61	R-CARBON-CHIP	1/10W 100-F		10-99
R 301	CP103P111A61	R-CARBON-CHIP	1/10W 100-F		10-99
R 302	CP103P111A61	R-CARBON-CHIP	1/10W 100-F		10-99

SYMBOL
NO.

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種コード = 2A-19W4- - - 機種名 = TFW9105K

品名	仕様規格 1	規格 2	材料 集
品名	仕様規格 1	規格 2	材料 集
R 315 CP103P11A61	R-CARBON-CHIP	1/10W 100-F	10-99
R 317 CP103P11A61	R-CARBON-CHIP	1/10W 100-F	20-99
R 319 CP103P11A61	R-CARBON-CHIP	1/10W 100-F	10-99
R 321 CP103P11A61	R-CARBON-CHIP	1/10W 100-F	20-99
R 323 CP103P11A61	R-CARBON-CHIP	1/10W 100-F	10-99
R 368 CP103P11A81	R-CARBON-CHIP	1/10W 150-F	10-99
R 369 CP103P11A81	R-CARBON-CHIP	1/10W 150-F	10-99
R 370 CP103P11A81	R-CARBON-CHIP	1/10W 150-F	10-99
R 365 CP103P11A91	R-CARBON-CHIP	1/10W 180-F	10-69
R 366 CP103P11A91	R-CARBON-CHIP	1/10W 180-F	70-99
R 366 CP103P11A91	R-CARBON-CHIP	1/10W 180-F	10-69
R 367 CP103P11A91	R-CARBON-CHIP	1/10W 180-F	70-99
R 367 CP103P11A91	R-CARBON-CHIP	1/10W 180-F	10-69
R 461 CP103P11A21	R-CARBON-CHIP	1/10W 270-F	70-99
R 796 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	10-69
R 796 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	70-99
R 464 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	10-69
R 464 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	70-99
R 465 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	10-69
R 465 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	70-99
R 466 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	10-69
R 466 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	70-99
R 468 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	10-69
R 468 CP103P11A21	R-CARBON-CHIP	1/10W 330-F	70-99
R 465 CP103P11A51	R-CARBON-CHIP	1/10W 560-F	10-69
R 465 CP103P11A51	R-CARBON-CHIP	1/10W 560-F	70-99
R 700 CP103P11A81	R-CARBON-CHIP	1/10W 1.0K-F	10-99
R 701 CP103P11A81	R-CARBON-CHIP	1/10W 1.0K-F	10-99
R 247 CP103P11A81	R-CARBON-CHIP	1/10W 1.0K-F	20-99
R 291 CP103P11A81	R-CARBON-CHIP	1/10W 1.0K-F	10-99
R 460 CP103P11A81	R-CARBON-CHIP	1/10W 1.0K-F	10-99
R 473 CP103P11A81	R-CARBON-CHIP	1/10W 1.0K-F	10-99
R 819 CP103P11A11	R-CARBON-CHIP	1/10W 1.8K-F	10-99
R 873 CP103P11A11	R-CARBON-CHIP	1/10W 1.8K-F	10-99
R 469 CP103P11A11	R-CARBON-CHIP	1/10W 1.8K-F	10-69
R 469 CP103P11A11	R-CARBON-CHIP	1/10W 1.8K-F	70-99
R 893 CP103P11A21	R-CARBON-CHIP	1/10W 2.2K-F	10-19
R 894 CP103P11A21	R-CARBON-CHIP	1/10W 2.2K-F	10-99
R 467 CP103P11A21	R-CARBON-CHIP	1/10W 2.2K-F	10-99
R 855 CP103P11A31	R-CARBON-CHIP	1/10W 2.7K-F	10-99
R 868 CP103P11A31	R-CARBON-CHIP	1/10W 2.7K-F	10-99
R 871 CP103P11A31	R-CARBON-CHIP	1/10W 2.7K-F	10-69
R 474 CP103P11A31	R-CARBON-CHIP	1/10W 2.7K-F	10-99
R 818 CP103P11A41	R-CARBON-CHIP	1/10W 3.3K-F	10-99
R 835 CP103P11A41	R-CARBON-CHIP	1/10W 3.3K-F	10-99
R 240 CP103P11A41	R-CARBON-CHIP	1/10W 3.3K-F	20-99
R 457 CP103P11A41	R-CARBON-CHIP	1/10W 3.3K-F	10-99
R 470 CP103P11A41	R-CARBON-CHIP	1/10W 3.3K-F	10-99
R 874 CP103P11A71	R-CARBON-CHIP	1/10W 5.6K-F	70-99
R 469 CP103P11A81	R-CARBON-CHIP	1/10W 6.8K-F	20-99
R 746 CP103P11A91	R-CARBON-CHIP	1/10W 8.2K-F	10-99
R 806 CP103P11A91	R-CARBON-CHIP	1/10W 8.2K-F	10-99

ALL PARTS LIST

SYMBOL

NO. PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

價目コード = 2A-19W4- - - 價目名 = TFW9105K

品名	仕樣規格 1	規格 2	材料 集
子部品コード	品名	仕樣規格 1	規格 2
R 189	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 190	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 703	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 728	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 734	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 736	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 834	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 865	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 877	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 878	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 884	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 459	CP103P114A01	R-CARBON-CHIP	1/10W 10K-F
R 752	CP103P114A11	R-CARBON-CHIP	1/10W 12K-F
R 720	CP103P114A21	R-CARBON-CHIP	1/10W 15K-F
R 456	CP103P114A31	R-CARBON-CHIP	1/10W 18K-F
R 817	CP103P114A41	R-CARBON-CHIP	1/10W 22K-F
R 893	CP103P114A41	R-CARBON-CHIP	1/10W 22K-F
R 456	CP103P114A41	R-CARBON-CHIP	1/10W 22K-F
R 293	CP103P114A61	R-CARBON-CHIP	1/10W 33K-F
R 419	CP103P114A61	R-CARBON-CHIP	1/10W 33K-F
R 351	CP103P114A71	R-CARBON-CHIP	1/10W 39K-F
R 355	CP103P114A71	R-CARBON-CHIP	1/10W 39K-F
R 452	CP103P114A71	R-CARBON-CHIP	1/10W 39K-F
R 823	CP103P114A91	R-CARBON-CHIP	1/10W 56K-F
R 7C1	CP103P114A91	R-CARBON-CHIP	1/10W 56K-F
R 455	CP103P114A91	R-CARBON-CHIP	1/10W 56K-F
R 820	CP103P115A21	R-CARBON-CHIP	1/10W 100K-F
R 707	CP103P115A21	R-CARBON-CHIP	1/10W 100K-F
R 454	CP103P115A21	R-CARBON-CHIP	1/10W 100K-F
R 453	CP103P115A31	R-CARBON-CHIP	1/10W 120K-F
R 453	CP103P115A61	R-CARBON-CHIP	1/10W 220K-F
R 721	CP103P115A71	R-CARBON-CHIP	1/10W 270K-F
R 856	CP103P115A71	R-CARBON-CHIP	1/10W 270K-F
R 856	CP103P115A71	R-CARBON-CHIP	1/10W 270K-F
R 788	CP103P115A81	R-CARBON-CHIP	1/10W 270K-F
R 731	CP103P116A51	R-CARBON-CHIP	1/10W 330K-F
R 869	CP103P116A51	R-CARBON-CHIP	1/10W 6.2K-F
R 872	CP103P116A51	R-CARBON-CHIP	1/10W 6.2K-F
R 709	CP103P116A61	R-CARBON-CHIP	1/10W 6.2K-F
R 455	CP103P116A61	R-CARBON-CHIP	1/10W 51K-F
R 827	CP103P116A81	R-CARBON-CHIP	1/10W 51K-F
R 827	CP103P116A81	R-CARBON-CHIP	1/10W 910-F
R 463	CP103P116A91	R-CARBON-CHIP	1/10W 75-F
R 867	CP103P117A11	R-CARBON-CHIP	1/10W 75-F
R 870	CP103P117A11	R-CARBON-CHIP	1/10W 9.1K-F
R 756	CP103P117A51	R-CARBON-CHIP	1/10W 9.1K-F
R 779	CP103P117A61	R-CARBON-CHIP	1/10W 2.0K-F
R 880	CP103P117A81	R-CARBON-CHIP	1/10W 7.5K-F
R 880	CP103P117A81	R-CARBON-CHIP	1/10W 30K-F

機種コード = 2A-19W4- - - 機種名 = TFW9105K

品元	子部品コード	品名	仕様規格 1	規格 2	材料 兼 証明 数
R 407	CP103P117A81	R-CARBON-CHIP	1/10W 30K-F		10-99
R 314	CP103P117A91	R-CARBON-CHIP	1/10W 110-F		10-99
R 314	CP103P117A91	R-CARBON-CHIP	1/10W 110-F		70-99
R 318	CP103P117A91	R-CARBON-CHIP	1/10W 110-F		10-99
R 318	CP103P117A91	R-CARBON-CHIP	1/10W 110-F		70-99
R 322	CP103P117A91	R-CARBON-CHIP	1/10W 110-F		10-99
R 322	CP103P117A91	R-CARBON-CHIP	1/10W 110-F		70-99
R 218	CP103P118A11	R-CARBON-CHIP	1/10W 2.4K-F		10-99
R 888	CP103P118A21	R-CARBON-CHIP	1/10W 13K-F		10-99
R 889	CP103P118A21	R-CARBON-CHIP	1/10W 13K-F		10-99
R 729	CP103P118A31	R-CARBON-CHIP	1/10W 3.0K-F		10-99
R 457	CP103P118A31	R-CARBON-CHIP	1/10W 3.0K-F		10-19
R 824	CP103P144A31	R-METAL-CHIP	1/8W 560-F	3.2X1.6	10-69
R 824	CP103P144A31	R-METAL-CHIP	1/8W 560-F	3.2X1.6	70-99
R 249	CP103P144A91	R-METAL-CHIP	1/8W 1.0K-F	3.2X1.6	10-99
R 250	CP103P144A91	R-METAL-CHIP	1/8W 1.0K-F	3.2X1.6	10-99
R 286	CP103P144A91	R-METAL-CHIP	1/8W 1.0K-F	3.2X1.6	10-99
R 288	CP103P144A91	R-METAL-CHIP	1/8W 1.0K-F	3.2X1.6	10-99
R 6A7	CP103P280A41	R-METAL	1/4W 4.7M-J		10-19
R 6A8	CP103P280A41	R-METAL	1/4W 4.7M-J		10-19
R 414	CP103P310A71	R-METAL	1W 33-J RHU		10-99
R 211	CP103P312A21	R-METAL	1W 560-J RHU		10-99
R 224	CP103P312A21	R-METAL	1W 560-J RHU		10-99
R 232	CP103P312A21	R-METAL	1W 560-J RHU		10-99
R 6F0	CP103P312A81	R-METAL	1W 1.8K-J RHU		20-99
R 6E0	CP103P314A41	R-METAL	1W 39K-J RHU		10-69
R 6E0	CP103P314A41	R-METAL	1W 39K-J RHU		70-99
R 555	CP103P314A91	R-METAL	1W 100K-J RHU		10-99
R 391	CP103P318A41	R-METAL	1W 2.2-J RHU		20-99
R 391	CP103P318A41	R-METAL	1W 3.3-J RHU		10-19
R 954	CP103P320A11	R-METAL	2W 10-J RHU		10-69
R 954	CP103P320A11	R-METAL	2W 10-J RHU		70-99
R 552	CP103P320A91	R-METAL	2W 47-J RHU		10-69
R 902	CP103P322A01	R-METAL	2W 390-J RHU		10-69
R 902	CP103P322A01	R-METAL	2W 390-J RHU		70-99
R 925	CP103P322A01	R-METAL	2W 390-J RHU		10-69
R 925	CP103P322A01	R-METAL	2W 390-J RHU		70-99
R 545	CP103P324A71	R-METAL	2W 68K-J RHU		10-99
R 960	CP103P324A71	R-METAL	2W 68K-J RHU		10-99
R 959	CP103P324A91	R-METAL	2W 100K-J RHU		10-19
R 959	CP103P324A91	R-METAL	2W 100K-J RHU		21-29
R 959	CP103P324A91	R-METAL	2W 100K-J RHU		31-39
R 601	CP103P327A21	R-METAL	2W 100K-J RHU		41-49
R 544	CP103P327A61	R-METAL	2W 0.22-J RHU		10-69
R 601	CP103P327A21	R-METAL	2W 0.22-J RHU		70-99
R 420	CP103P328A11	R-METAL	2W 0.47-J RHU		10-99
R 991	CP103P328A81	R-METAL	2W 1.2-J RHU		10-99
R 512	CP103P330A51	R-METAL	3W 22-J RHU		10-69
R 512	CP103P330A51	R-METAL	3W 22-J RHU		70-99
R 5P1	CP103P330A61	R-METAL	3W 27-J RHU		79-84

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種コード = 2A-19W4- - 機種名 = TFW9105K

諸元	子部品コード	品名	仕様規格1	規格2	材料	数量
R 947	CP103P331A01	R-METAL	3W 56-J RHU		10-99	1
R 408	CP103P331A31	R-METAL	3W 100-J RHU		10-99	1
R 423	CP103P331A31	R-METAL	3W 100-J RHU		10-99	1
R 513	CP103P331A41	R-METAL	3W 120-J RHU		10-99	1
R 514	CP103P331A51	R-METAL	3W 150-J RHU		10-99	1
R 923	CP103P334A31	R-METAL	3W 33K-J RHU		10-99	1
R 924	CP103P334A31	R-METAL	3W 33K-J RHU		10-99	1
R 587	CP103P338A01	R-METAL	3W 1-J RHU		10-99	1
R 509	CP103P338A41	R-METAL	3W 2.2-J RHU		10-99	1
R 551	CP103P338A91	R-METAL	3W 5.6-J RHU		10-99	1
R 551	CP103P338A91	R-METAL	3W 5.6-J RHU		10-99	1
R 6E3	CP103P340A41	R-METAL	1W 100K-J		10-99	1
R 6E4	CP103P340A41	R-METAL	1W 100K-J		10-99	1
R 6E5	CP103P340A41	R-METAL	1W 100K-J		10-99	1
R 6E6	CP103P340A41	R-METAL	1W 100K-J		10-99	1
R 6E8	CP103P340A41	R-METAL	1W 100K-J		10-99	1
R 6E7	CP103P340A61	R-METAL	1W 120K-J		10-99	1
R 510	CP103P360A51	R-METAL	1W 0.15-J		10-99	1
R 511	CP103P360A51	R-METAL	1W 0.15-J		10-99	1
R 907	CP103P420A50	R-CEMENT	5W 0.22-J		10-69	1
R 907	CP103P420A50	R-CEMENT	5W 0.22-J		10-69	1
R 602	CP103P451A10	R-METAL	7W 24-J DH		10-69	1
R 602	CP103P451A10	R-METAL	7W 24-J DH		10-69	1
R 603	CP103P451A10	R-METAL	7W 24-J DH		10-69	1
R 603	CP103P451A10	R-METAL	7W 24-J DH		10-69	1
R 212	CP103P482A41	R-METAL-CHIP	1/4W 75-F		10-19	1
R 212	CP103P482A41	R-METAL-CHIP	1/4W 75-F		21-29	1
R 212	CP103P482A41	R-METAL-CHIP	1/4W 75-F		31-39	1
R 212	CP103P482A41	R-METAL-CHIP	1/4W 75-F		41-49	1
R 213	CP103P482A41	R-METAL-CHIP	1/4W 75-F		10-19	1
R 213	CP103P482A41	R-METAL-CHIP	1/4W 75-F		21-29	1
R 213	CP103P482A41	R-METAL-CHIP	1/4W 75-F		31-39	1
R 213	CP103P482A41	R-METAL-CHIP	1/4W 75-F		41-49	1
R 214	CP103P482A41	R-METAL-CHIP	1/4W 75-F		10-19	1
R 214	CP103P482A41	R-METAL-CHIP	1/4W 75-F		21-29	1
R 214	CP103P482A41	R-METAL-CHIP	1/4W 75-F		31-39	1
R 214	CP103P482A41	R-METAL-CHIP	1/4W 75-F		41-49	1
R 358	CP103P482A41	R-METAL-CHIP	1/4W 75-F		10-19	1
R 358	CP103P482A41	R-METAL-CHIP	1/4W 75-F		21-29	1
R 358	CP103P482A41	R-METAL-CHIP	1/4W 75-F		31-39	1
R 358	CP103P482A41	R-METAL-CHIP	1/4W 75-F		41-49	1
R 359	CP103P482A41	R-METAL-CHIP	1/4W 75-F		10-19	1
R 359	CP103P482A41	R-METAL-CHIP	1/4W 75-F		21-29	1
R 359	CP103P482A41	R-METAL-CHIP	1/4W 75-F		31-39	1
R 359	CP103P482A41	R-METAL-CHIP	1/4W 75-F		41-49	1
R 360	CP103P482A41	R-METAL-CHIP	1/4W 75-F		10-19	1
R 360	CP103P482A41	R-METAL-CHIP	1/4W 75-F		21-29	1
R 360	CP103P482A41	R-METAL-CHIP	1/4W 75-F		31-39	1
R 360	CP103P482A41	R-METAL-CHIP	1/4W 75-F		41-49	1
R 287	CP103P482A51	R-METAL-CHIP	1/4W 82-F		10-19	1
R 289	CP103P482A51	R-METAL-CHIP	1/4W 82-F		10-19	1
R 781	CP103P510A11	R-METAL-CHIP	1/8W 2.2-J	3.2X1.6	10-99	1

LOT NO.

QTY

DESCRIPTION / SPECIFICATION

PART NO.

NO.

機種名 = TFWS105K

機種コード = 2A-19W4-

品名	仕様規格1	規格2	材料	単位
787 CP103P510A11	R-METAL-CHIP 1/8W 2.2-J	3.2X1.6		10-19
795 CP103P510A11	R-METAL-CHIP 1/8W 2.2-J	3.2X1.6		10-99
412 CP103P510A11	R-METAL-CHIP 1/8W 2.2-J	3.2X1.6		10-99
413 CP103P510A11	R-METAL-CHIP 1/8W 2.2-J	3.2X1.6		10-99
826 CP103P510A61	R-METAL-CHIP 1/8W 15-J	3.2X1.6		10-99
837 CP103P510A61	R-METAL-CHIP 1/8W 15-J	3.2X1.6		10-99
838 CP103P510A61	R-METAL-CHIP 1/8W 15-J	3.2X1.6		10-99
928 CP109D003A70	R-CEMENT-WIRE 5W 0.27-K			10-69
928 CP109D003A70	R-CEMENT-WIRE 5W 0.27-K			10-99
929 CP109D003A70	R-CEMENT-WIRE 5W 0.27-K			10-69
929 CP109D003A70	R-CEMENT-WIRE 5W 0.27-K			10-99
918 CP109D008A10	R-CEMENT-WIRE 5W 10-J			10-99
610 CP109P017A51	R-FUSE 1/4W 0.22-J	RF255 R2		10-99
922 CP109P132A10	R-CEMENT-FUSE 5W 10T-4-J	ERU5TEJ1		10-50
922 CP109P132A10	R-CEMENT-FUSE 5W 10T-4-J	ERU5TEJ1		51-99
6E9 CP109P155A70	R-METAL-FUSE 1/2W 3.9K-J			20-99
IR 700 CP127C001A10	VR-SEMIFIXED 1/10W B-100			10-50
IR 700 CP127C001A10	VR-SEMIFIXED 1/10W B-100			51-99
IR400 CP127C021A80	VR-SEMIFIXED 1/5W B-5K			10-99
IR5F1 CP129P010A81	VR-SEMIFIXED 1/2W B-1K			10-69
IR5F1 CP129P010A81	VR-SEMIFIXED 1/2W B-1K			70-99
IR6A1 CP129P011A11	VR-SEMIFIXED 1/2W B-5K			10-19
IR601 CP129P011A61	VR-SEMIFIXED 1/2W B-100K			10-69
IR601 CP129P011A61	VR-SEMIFIXED 1/2W B-100K			70-99
762 CP141P510A51	C-CERAMIC-CHIP B 50V 471-K	2.0X1.25	P6M6ME-R (DH)	10-99
299 CP141P511A51	C-CERAMIC-CHIP B 50V 332-K	2.0X1.25		10-99
100 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
104 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
128 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
130 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
136 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
700 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
701 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
703 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
706 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
715 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
736 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
738 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
739 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
740 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
742 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
751 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
752 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
761 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
771 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
776 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
779 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
787 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
788 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
789 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
790 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99
791 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.0X1.25			10-99

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種コード = 2A-19W4-

機種名 = TFW9105K

材料集

品名	仕様規格 1	規格 2	証明 数
子部品コード			
C 792 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 793 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 794 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 795 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 796 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 797 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 798 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 799 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 800 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 804 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 859 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 208 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 211 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 213 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 216 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 220 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 222 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 224 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 228 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 229 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 230 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 235 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 236 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 240 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 243 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 245 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 247 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 250 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 251 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 255 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 256 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 257 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 263 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 323 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 325 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 420 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 424 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 433 CP141P511A71	C-CERAMIC-CHIP B 50V 472-K 2.OX1.25		1
C 707 CP141P512A11	C-CERAMIC-CHIP B 50V 103-K	2.OX1.25	1
C 811 CP141P512A11	C-CERAMIC-CHIP B 50V 103-K	2.OX1.25	1
C 1X5 CP141P512A11	C-CERAMIC-CHIP B 50V 103-K	2.OX1.25	1
C 283 CP141P512A11	C-CERAMIC-CHIP B 50V 103-K	2.OX1.25	1
C 285 CP141P512A11	C-CERAMIC-CHIP B 50V 103-K	2.OX1.25	1
C 287 CP141P512A11	C-CERAMIC-CHIP B 50V 103-K	2.OX1.25	1
C 289 CP141P512A11	C-CERAMIC-CHIP B 50V 103-K	2.OX1.25	1
C 291 CP141P512A11	C-CERAMIC-CHIP B 50V 103-K	2.OX1.25	1
C 292 CP141P512A11	C-CERAMIC-CHIP B 50V 103-K	2.OX1.25	1
C 121 CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25	1
C 129 CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25	1
C 133 CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25	1
C 763 CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25	1
C 765 CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25	1
C 772 CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25	1

QTY

DESCRIPTION / SPECIFICATION

PART NO.

NO.

機種名 = 2A-19W4- - - 機種名 = TFW9105K

LOT NO.

品名	仕様規格 1	規格 2	材料 表
子部品コード	品名	仕様規格 1	規格 2
C 785	CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25
C 796	CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25
C 212	CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25
C 223	CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25
C 232	CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25
C 244	CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25
C 252	CP141P515A01	C-CERAMIC-CHIP B 25V 104-K	2.OX1.25
C 393	CP142P041A31	C-CERAMIC B500V 1000P-K	
C 394	CP142P041A31	C-CERAMIC B500V 1000P-K	
C 395	CP142P041A31	C-CERAMIC B500V 1000P-K	
C 393	CP142P041A31	C-CERAMIC B500V 1000P-K	
C 394	CP142P041A31	C-CERAMIC B500V 1000P-K	
C 395	CP142P041A31	C-CERAMIC B500V 1000P-K	
C 6E1	CP155P002A51	C-CERAMIC SL2KV 15P-J	
C 6E2	CP155P002A51	C-CERAMIC SL2KV 15P-J	
C 6E2	CP155P002A51	C-CERAMIC SL2KV 15P-J	
C 508	CP155P003A91	C-CERAMIC SL2KV 220P-J	
C 539	CP155P003A91	C-CERAMIC SL2KV 220P-J	
C 392	CP155P010A71	C-CERAMIC B1KV 1000P-K	
C 911	CP155P011A41	C-CERAMIC B2KV 150P-K	
C 911	CP155P011A41	C-CERAMIC B2KV 150P-K	
C 922	CP155P011A41	C-CERAMIC B2KV 150P-K	
C 922	CP155P011A41	C-CERAMIC B2KV 150P-K	
C 923	CP155P011A41	C-CERAMIC B2KV 150P-K	
C 968	CP155P011A71	C-CERAMIC B2KV 150P-K	
C 968	CP155P011A71	C-CERAMIC B2KV 470P-K	
C 947	CP155P011A71	C-CERAMIC B2KV 470P-K	
C 947	CP155P011A71	C-CERAMIC B2KV 470P-K	
C 908	CP155P011A91	C-CERAMIC B2KV 1000P-K	
C 929	CP155P011A91	C-CERAMIC B2KV 1000P-K	
C 509	CP155P030B41	C-CERAMIC R250V 3300P-K	
C 540	CP155P030B41	C-CERAMIC R250V 3300P-K	
C 766	CP155P460A11	C-CERAMIC-CHIP CH 50V 1000-G	3.2X1.6
C 768	CP155P460A11	C-CERAMIC-CHIP CH 50V 1000-G	3.2X1.6
C 769	CP155P460A11	C-CERAMIC-CHIP CH 50V 1000-G	3.2X1.6
C 778	CP155P460A11	C-CERAMIC-CHIP CH 50V 1000-G	3.2X1.6
C 783	CP155P460A11	C-CERAMIC-CHIP CH 50V 1000-G	3.2X1.6
C 801	CP155P462A11	C-CERAMIC-CHIP CH 50V 180-G	2.OX1.25
C 802	CP155P462A11	C-CERAMIC-CHIP CH 50V 180-G	2.OX1.25
C 816	CP155P531A81	C-CERAMIC-CHIP SL 50V 27P-J	
C 760	CP155P531A91	C-CERAMIC-CHIP SL 50V 33P-J	2.OX1.25
C 137	CP155P532A21	C-CERAMIC-CHIP SL 50V 56P-J 2.OX1.2 5	
C 803	CP155P532A21	C-CERAMIC-CHIP SL 50V 56P-J 2.OX1.2 5	
C 712	CP155P532A31	C-CERAMIC-CHIP SL 50V 68P-J	
C 126	CP155P532A51	C-CERAMIC-CHIP SL 50V 100P-J 2.OX1. 25	
C 815	CP155P532A51	C-CERAMIC-CHIP SL 50V 100P-J 2.OX1. 25	
C 784	CP155P533A61	C-CERAMIC-CHIP SL50V 820P-J	2.OX1.25
C 201	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 202	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 204	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25

ALL PARTS LIST

SYMBOL

NO.

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種コード = 2A-19W4- - - 機種名 = TFW9105K

品名	仕様規格 1	規格 2	材料 家
子部品コード	品名	仕様規格 1	規格 2
C 210	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 231	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 233	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 237	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 272	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 274	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 276	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 280	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 295	CP155P533A71	C-CERAMIC-CHIP SL 50V 1000P-J	2.OX1.25
C 265	CP155P534A31	C-CERAMIC-CHIP SL50V 3300P-J 3.2X1.6	2.OX1.25
C 215	CP155P534A51	C-CERAMIC-CHIP SL 50V 4700P-J 3.2X1.6	2.OX1.25
C 750	CP155P541A51	C-CERAMIC-CHIP CH 50V 15P-J	2.OX1.25
C 123	CP155P541A81	C-CERAMIC-CHIP CH 50V 27P-J	2.OX1.25
C 314	CP155P541A81	C-CERAMIC-CHIP CH 50V 27P-J	2.OX1.25
C 316	CP155P541A81	C-CERAMIC-CHIP CH 50V 27P-J	2.OX1.25
C 318	CP155P541A81	C-CERAMIC-CHIP CH 50V 27P-J	2.OX1.25
C 314	CP155P541A91	C-CERAMIC-CHIP CH 50V 33P-J	2.OX1.25
C 316	CP155P541A91	C-CERAMIC-CHIP CH 50V 33P-J	2.OX1.25
C 318	CP155P541A91	C-CERAMIC-CHIP CH 50V 33P-J	2.OX1.25
C 807	CP155P542A11	C-CERAMIC-CHIP CH 50V 47P-J	2.OX1.25
C 808	CP155P542A51	C-CERAMIC-CHIP CH 50V 100P-J	2.OX1.25
C 759	CP155P542A71	C-CERAMIC-CHIP CH50V 150P-J 2.OX1.2	2.OX1.25
C 719	CP155P543A11	C-CERAMIC-CHIP CH 50V 330P-J	2.OX1.25
C 725	CP155P543A11	C-CERAMIC-CHIP CH 50V 330P-J	2.OX1.25
C 749	CP155P543A11	C-CERAMIC-CHIP CH 50V 330P-J	2.OX1.25
C 708	CP155P543A31	C-CERAMIC-CHIP CH50V 470P-J	2.OX1.25
C 729	CP155P543A31	C-CERAMIC-CHIP CH50V 470P-J	2.OX1.25
C 770	CP155P543A31	C-CERAMIC-CHIP CH50V 470P-J	2.OX1.25
C 764	CP155P543A41	C-CERAMIC-CHIP CH50V 560P-J	3.2X1.6
C 758	CP155P543A91	C-CERAMIC-CHIP CH 50V 1500P-J	3.2X1.6
C 786	CP155P544A01	C-CERAMIC-CHIP CH 50V 1800P-J	3.2X1.6
C 315	CP155P548A41	C-CERAMIC-CHIP CH 50V 30P-J	2.OX1.25
C 317	CP155P548A41	C-CERAMIC-CHIP CH 50V 30P-J	2.OX1.25
C 319	CP155P548A41	C-CERAMIC-CHIP CH 50V 30P-J	2.OX1.25
C 311	CP155P549A11	C-CERAMIC-CHIP CH 50V 8P-D	2.OX1.25
C 311	CP155P549A11	C-CERAMIC-CHIP CH 50V 8P-D	2.OX1.25
C 312	CP155P549A11	C-CERAMIC-CHIP CH 50V 8P-D	2.OX1.25
C 312	CP155P549A11	C-CERAMIC-CHIP CH 50V 8P-D	2.OX1.25
C 313	CP155P549A11	C-CERAMIC-CHIP CH 50V 8P-D	2.OX1.25
C 313	CP155P549A11	C-CERAMIC-CHIP CH 50V 8P-D	2.OX1.25
C 931	CP172P070A00	C-M-P DC630V O.01M-J	2.OX1.25
C 931	CP172P070A00	C-M-P DC630V O.01M-J	2.OX1.25
C 924	CP172P070A80	C-M-P DC 630V O.047M-J	2.OX1.25
C 940	CP172P070A80	C-M-P DC 630V O.047M-J	2.OX1.25
C 320	CP172P114A81	C-POLYESTER DFZ 250VDC O.1M-J	2.OX1.25
C 320	CP172P114A81	C-POLYESTER DFZ 250VDC O.1M-J	2.OX1.25
C 321	CP172P114A81	C-POLYESTER DFZ 250VDC O.1M-J	2.OX1.25
C 321	CP172P114A81	C-POLYESTER DFZ 250VDC O.1M-J	2.OX1.25
C 322	CP172P114A81	C-POLYESTER DFZ 250VDC O.1M-J	2.OX1.25

NO.

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種コード = 2A-19W4- - - 機種名 TFW9105K

品番	部品コード	品名	仕様規格 1	規格 2	材料 東
					証明 数
C 322	CP172P114A81	C-POLYESTER	DFZ 250VDC 0.1M-J		51-99
C 504	CP172P130A71	C-POLYESTER	50V 0.01M-K-GR-J	103 S8	10-99
C 536	CP172P130A71	C-POLYESTER	50V 0.01M-K-GR-J	103 S8	10-99
C 6A1	CP172P130A71	C-POLYESTER	50V 0.01M-K-GR-J	103 S8	10-19
C 6R1	CP172P130A71	C-POLYESTER	50V 0.01M-K-GR-J	103 S8	10-99
C 6R2	CP172P130A71	C-POLYESTER	50V 0.01M-K-GR-J	103 S8	10-99
C 6R3	CP172P130A71	C-POLYESTER	50V 0.01M-K-GR-J	103 S8	10-19
C 5A3	CP172P134A31	C-POLYESTER	50V 0.1M-K-GR-J	104 S8	10-99
C 5A5	CP172P134A31	C-POLYESTER	50V 0.1M-K-GR-J	104 S8	10-99
C 505	CP172P134A31	C-POLYESTER	50V 0.1M-K-GR-J	104 S8	10-99
C 944	CP172P134A31	C-POLYESTER	50V 0.1M-K-GR-J	104 S8	10-99
C 984	CP172P134A31	C-POLYESTER	50V 0.1M-K-GR-J	104 S8	10-99
C 756	CP172P135A71	C-POLYESTER	50V 0.1M-K-GR-J	104 S8	10-99
C 925	CP172P137A31	C-POLYESTER	50V 0.012M-K-GR-J	123 S8	10-99
C 926	CP172P137A31	C-POLYESTER		102 S8	10-99
C 933	CP172P137A31	C-POLYESTER		102 S8	10-99
C 5A4	CP172P137A51	C-POLYESTER	50V 1500P-J 152 S8	102 S8	10-99
C 910	CP172P137A71	C-POLYESTER		222 S8	10-69
C 912	CP172P137A91	C-POLYESTER		222 S8	70-99
C 912	CP172P137A91	C-POLYESTER		332 S8	10-69
C 503	CP172P138A11	C-POLYESTER		332 S8	70-99
C 6P1	CP172P138A51	C-POLYESTER	50V 4700P-J	472 S8	10-99
C 6R7	CP172P138A51	C-POLYESTER	50V 0.01M-J	103 S8	10-99
C 6R8	CP172P138A51	C-POLYESTER	50V 0.01M-J	103 S8	10-99
C 914	CP172P138A51	C-POLYESTER	50V 0.01M-J	103 S8	10-99
C 932	CP172P138A51	C-POLYESTER	50V 0.01M-J	103 S8	10-99
C 704	CP172P138A51	C-POLYESTER	50V 0.01M-J	103 S8	10-99
C 709	CP172P138A51	C-POLYESTER	50V 0.01M-J	103 S8	10-99
C 813	CP172P138A71	C-POLYESTER	50V 0.01M-J	103 S8	10-99
C 913	CP172P138A91	C-POLYESTER	50V 0.015M-J	153 S8	10-19
C 813	CP172P139A01	C-POLYESTER		223 S8	10-99
C 813	CP172P139A01	C-POLYESTER		273 S8	20-69
C 941	CP172P139A31	C-POLYESTER		273 S8	70-99
C 727	CP172P139A31	C-POLYESTER	50V 0.047M-J	473 S8	10-99
C 720	CP172P161A71	C-POLYESTER	50V 0.047M-J	473 S8	10-99
C 720	CP172P161A71	C-POLYESTER	50V 0.22M-J	224 L8	10-50
C 239	CP172P161A71	C-POLYESTER	50V 0.22M-J	224 L8	51-99
C 239	CP172P161A71	C-POLYESTER	50V 0.22M-J	224 L8	10-50
C 241	CP172P161A71	C-POLYESTER	50V 0.22M-J	224 L8	51-99
C 241	CP172P161A71	C-POLYESTER	50V 0.22M-J	224 L8	10-50
C 249	CP172P161A71	C-POLYESTER	50V 0.22M-J	224 L8	51-99
C 249	CP172P161A71	C-POLYESTER	50V 0.22M-J	224 L8	10-50
C 404	CP172P161A71	C-POLYESTER	50V 0.22M-J	224 L8	51-99
C 404	CP172P161A71	C-POLYESTER	50V 0.22M-J	224 L8	10-50
C 127	CP172P162A11	C-POLYESTER	50V 0.47M-J	474 L8	51-99
C 402	CP172P162A31	C-POLYESTER	50V 0.68M-J	684 L8	10-50
C 402	CP172P162A31	C-POLYESTER	50V 0.68M-J	684 L8	51-99
C 414	CP172P162A51	C-POLYESTER	50V 1.0M-J	105 L8	10-50
C 414	CP172P162A51	C-POLYESTER	50V 1.0M-J	105 L8	51-69
C 731	CP172P166A31	C-POLYESTER	50V 0.1M-M	105 L8	10-99
C 755	CP172P166A31	C-POLYESTER	50V 0.1M-M		10-99

ALL PARTS LIST

SYMBOL

NO. PART NO.

DESCRIPTION / SPECIFICATION

QTY

機種コード = 2A-19W4- - - 機種名 = TFW9105K

品名	仕様規格 1	規格 2	材料 説明 数
C 214 CP172P166A31	C-POLYESTER	50V 0.1M-J	1
C 5A1 CP172P170A51	C-PLASTIC-PP	50V 2200P-J	1
C 5A1 CP172P170A51	C-PLASTIC-PP	2225B	1
C 534 CP172P201A11	C-M-POLYESTER	50V 2200P-J	1
C 534 CP172P201A11	C-M-POLYESTER	ECB-E2104JF	1
C 537 CP172P201A11	C-M-POLYESTER	ECB-E2104JF	1
C 537 CP172P201A11	C-M-POLYESTER	ECB-E2104JF	1
C 526 CP172P310A11	C-M-PP	ECWF 250V 683RJB	1
C 526 CP172P310A11	C-M-PP	ECWF 250V 683RJB	1
C 525 CP172P310A71	C-M-PP	ECWF 250V 124RJB	1
C 525 CP172P310A71	C-M-PP	ECWF 250V 124RJB	1
C 518 CP172P311A31	C-M-PP	ECWF 250V 124RJB	1
C 519 CP172P311A31	C-M-PP	ECWF 250V 224RJB	1
C 524 CP172P311A51	C-M-PP	ECWF 250V 274RJB	1
C 523 CP172P312A11	C-M-PP	ECWF 250V 274RJB	1
C 523 CP172P312A11	C-M-PP	ECWF 250V 474RJB	1
C 522 CP172P312A91	C-M-PP	ECWF 250V 105RJB	1
C 522 CP172P312A91	C-M-PP	ECWF 250V 105RJB	1
C 520 CP172P318A60	C-M-PP	ECWF 250V 205JBB	1
C 520 CP172P318A60	C-M-PP	ECWF 250V 205JBB	1
C 518 CP172P321A31	C-M-PP	ECWF 400V 224	1
C 518 CP172P321A31	C-M-PP	ECWF 400V 224	1
C 519 CP172P321A31	C-M-PP	ECWF 400V 224	1
C 519 CP172P321A31	C-M-PP	ECWF 400V 224	1
C 601 CP172P340A11	C-M-PP	ECWF 400V 224	1
C 6E3 CP172P342A11	C-M-PP	ECWF 400V 224	1
C 510 CP172P380A10	C-M-PLASTIC-PP	ECWH 16102RJZ BR JZR	1
C 510 CP172P380A10	C-M-PLASTIC-PP	ECWH 16562 RJZ BR JZ	1
C 511 CP172P380A10	C-M-PLASTIC-PP	1800V 2200P-J	1
C 511 CP172P380A10	C-M-PLASTIC-PP	1800V 2200P-J	1
C 601 CP172P390A11	C-M-PP	1800V 2200P-J	1
C 6E3 CP172P392A11	C-M-PP	ECWH 16102RJZ BR JVR	1
C 426 CP172P400A41	C-POLYESTER	ECWH 16562RJZ BR JVR	1
C 428 CP172P400A61	C-POLYESTER	50V 0.1M-J	1
C 428 CP172P401A21	C-POLYESTER	50V 0.15M-J	1
C 428 CP172P401A21	C-POLYESTER	50V 0.39M-J	1
C 435 CP172P401A21	C-POLYESTER	50V 0.39M-J	1
C 6R0 CP172P401A31	C-POLYESTER	50V 0.39M-J	1
C 6R0 CP172P401A31	C-POLYESTER	50V 0.47M-J	1
C 6R4 CP172P401A31	C-POLYESTER	50V 0.47M-J	1
C 6R4 CP172P401A31	C-POLYESTER	50V 0.47M-J	1
C 6R9 CP172P401A31	C-POLYESTER	50V 0.47M-J	1
C 6R9 CP172P401A31	C-POLYESTER	50V 0.47M-J	1
C 435 CP172P401A31	C-POLYESTER	50V 0.47M-J	1
C 437 CP172P401A51	C-POLYESTER	50V 0.47M-J	1
C 426 CP172P401A51	C-POLYESTER	50V 0.68M-J	1
C 437 CP172P401A51	C-POLYESTER	50V 0.68M-J	1
C 434 CP172P401A61	C-POLYESTER	50V 0.82M-J	1
C 432 CP172P401A61	C-POLYESTER	50V 0.82M-J	1
C 432 CP172P401A61	C-POLYESTER	50V 0.82M-J	1

LOT NO.

19

機種コード = 2A-19W4- - - 機種名 = TFW9105K

品名	仕様規格 1	規格 2	材料 量
品名	仕様規格 1	規格 2	材料 量
C 425 CP172P401A71	C-POLYESTER	50V 1.0M-J	70-99
C 429 CP172P401A71	C-POLYESTER	50V 1.0M-J	10-69
C 430 CP172P401A71	C-POLYESTER	50V 1.0M-J	10-69
C 430 CP172P401A71	C-POLYESTER	50V 1.0M-J	70-99
C 439 CP172P401A71	C-POLYESTER	50V 1.0M-J	10-69
C 439 CP172P401A71	C-POLYESTER	50V 1.0M-J	70-99
C 423 CP172P401A81	C-POLYESTER	50V 1.2M-J	10-69
C 434 CP172P401A81	C-POLYESTER	50V 1.2M-J	10-69
C 423 CP172P401A91	C-POLYESTER	50V 1.5M-J	70-99
C 440 CP172P401A91	C-POLYESTER	50V 1.5M-J	10-99
C 421 CP172P402A11	C-POLYESTER	50V 1.8M-J	70-99
C 431 CP172P402A21	C-POLYESTER	50V 2.2M-J	10-99
C 441 CP172P402A21	C-POLYESTER	50V 2.2M-J	10-99
C 969 CP172P410A71	C-M-P	250V 0.033M-J	10-99
C 927 CP172P422A30	C-M-P	400V 0.47M-J	10-69
C 927 CP172P422A30	C-M-P	400V 0.47M-J	70-99
C 928 CP172P422A30	C-M-P	400V 0.47M-J	10-69
C 928 CP172P422A30	C-M-P	400V 0.47M-J	70-99
C 611 CP181P030A21	C-ELECTROLYTIC	04W 25V 10M-M	10-99
C 741 CP181P030A21	C-ELECTROLYTIC	04W 25V 10M-M	10-19
C 6E6 CP181P030A31	C-ELECTROLYTIC	04W 25V 22M-M	10-99
C 6E7 CP181P030A31	C-ELECTROLYTIC	04W 25V 22M-M	10-99
C 711 CP181P030A31	C-ELECTROLYTIC	04W 25V 22M-M	10-99
C 713 CP181P030A31	C-ELECTROLYTIC	04W 25V 22M-M	10-99
E 814 CP181P030A31	C-ELECTROLYTIC	04W 25V 22M-M	10-99
C 741 CP181P030A41	C-ELECTROLYTIC	04W 25V 33M-M	20-99
C 608 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 612 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 983 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 138 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 139 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 205 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 207 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 217 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 219 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 225 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 227 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 238 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 246 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 282 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 284 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 286 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 288 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 293 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 324 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-19
C 328 CP181P030A51	C-ELECTROLYTIC	04W 25V 47M-M	10-99
C 6A2 CP181P030A61	C-ELECTROLYTIC	04W 25V 100M-M	10-19
C 6A3 CP181P030A61	C-ELECTROLYTIC	04W 25V 100M-M	10-19
C 6E5 CP181P030A61	C-ELECTROLYTIC	04W 25V 100M-M	10-99
C 6E9 CP181P030A61	C-ELECTROLYTIC	04W 25V 100M-M	10-99
C 607 CP181P030A61	C-ELECTROLYTIC	04W 25V 100M-M	10-99
C 101 CP181P030A61	C-ELECTROLYTIC	04W 25V 100M-M	10-99

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

NO.

21

LOT NO.

部品コード = 2A-19W4- - - 部品名 = TFW9105K

部品	子部品コード	品名	仕様規格 1	規格 2	材料	数量
C 125	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 131	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 705	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 714	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 716	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 722	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 730	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 733	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 734	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 735	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 748	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 753	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 757	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 773	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 780	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 812	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 234	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 260	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 262	CP181P030A61	C-ELECTR0LYTIC	04W 25V 100M-M		10-99	1
C 5A6	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 5A7	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 5P1	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		30-30	1
C 5P1	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		51-99	1
C 921	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 966	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 967	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 773	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 294	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 329	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 400	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 400	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 400	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 400	CP181P030A71	C-ELECTR0LYTIC	04W 25V 220M-M		10-99	1
C 775	CP181P030A91	C-ELECTR0LYTIC	04W 25V 470M-M		10-99	1
C 501	CP181P031A01	C-ELECTR0LYTIC	04W 25V 1000M-M		10-99	1
C 961	CP181P031A01	C-ELECTR0LYTIC	04W 25V 1000M-M		10-99	1
C 962	CP181P031A01	C-ELECTR0LYTIC	04W 25V 1000M-M		10-99	1
C 954	CP181P031A30	C-ELECTR0LYTIC	04W 25V 4700M-M		10-99	1
C 955	CP181P031A30	C-ELECTR0LYTIC	04W 25V 4700M-M		10-99	1
C 1X6	CP181P031A61	C-ELECTR0LYTIC	04W 50V 0.1M-M		10-99	1
C 1X7	CP181P031A61	C-ELECTR0LYTIC	04W 50V 0.1M-M		10-99	1
C 1X8	CP181P031A61	C-ELECTR0LYTIC	04W 50V 0.1M-M		10-99	1
C 1X9	CP181P031A61	C-ELECTR0LYTIC	04W 50V 0.1M-M		10-99	1
C 718	CP181P031A91	C-ELECTR0LYTIC	04W 50V 0.47M-M		10-99	1
C 107	CP181P032A01	C-ELECTR0LYTIC	04W 50V 1M-M		10-99	1
C 108	CP181P032A01	C-ELECTR0LYTIC	04W 50V 1M-M		10-99	1
C 109	CP181P032A01	C-ELECTR0LYTIC	04W 50V 1M-M		10-99	1
C 110	CP181P032A01	C-ELECTR0LYTIC	04W 50V 1M-M		10-99	1
C 111	CP181P032A01	C-ELECTR0LYTIC	04W 50V 1M-M		10-99	1
C 113	CP181P032A01	C-ELECTR0LYTIC	04W 50V 1M-M		10-99	1

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品元	子部品コード	品名	仕様規格 1	規格 2	材料 張 証明 数
C 114	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 115	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 116	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 117	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 118	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 119	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 120	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 122	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 132	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 723	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 724	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 726	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 728	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 200	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 203	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 209	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 221	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		10-99
C 324	CP181P032A01	C-ELECTRBLTYIC	04W 50V 1M-M		20-99
C 606	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 754	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 774	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 781	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 206	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 218	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 226	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 248	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 253	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 254	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 258	CP181P032A11	C-ELECTRBLTYIC	04W 50V 2.2M-M		10-99
C 710	CP181P032A31	C-ELECTRBLTYIC	04W 50V 4.7M-M		10-99
C 721	CP181P032A31	C-ELECTRBLTYIC	04W 50V 4.7M-M		10-99
C 767	CP181P032A31	C-ELECTRBLTYIC	04W 50V 4.7M-M		10-99
C 604	CP181P032A41	C-ELECTRBLTYIC	04W 50V 10M-M		10-99
C 702	CP181P032A41	C-ELECTRBLTYIC	04W 50V 10M-M		10-99
C 737	CP181P032A41	C-ELECTRBLTYIC	04W 50V 10M-M		10-99
C 810	CP181P032A41	C-ELECTRBLTYIC	04W 50V 10M-M		10-99
C 438	CP181P032A41	C-ELECTRBLTYIC	04W 50V 10M-M		10-99
C 658	CP181P032A71	C-ELECTRBLTYIC	04W 50V 47M-M		10-99
C 610	CP181P032A71	C-ELECTRBLTYIC	04W 50V 47M-M		10-99
C 744	CP181P032A71	C-ELECTRBLTYIC	04W 50V 47M-M		10-99
C 747	CP181P032A71	C-ELECTRBLTYIC	04W 50V 47M-M		10-99
C 777	CP181P032A71	C-ELECTRBLTYIC	04W 50V 47M-M		10-99
C 930	CP181P032A81	C-ELECTRBLTYIC	04W 50V 100M-M		10-99
C 745	CP181P032A81	C-ELECTRBLTYIC	04W 50V 100M-M		10-99
C 953	CP181P033A21	C-ELECTRBLTYIC	04W 50V 100M-M		10-99
C 960	CP181P033A21	C-ELECTRBLTYIC	04W 50V 100M-M		10-99
C 609	CP181P034A51	C-ELECTRBLTYIC	04W 100V 10M-M		10-99
C 301	CP181P034A91	C-ELECTRBLTYIC	04W 100V 47M-M		10-99
C 959	CP181P035A01	C-ELECTRBLTYIC	04W 100V 100M-M		10-69
C 959	CP181P035A01	C-ELECTRBLTYIC	04W 100V 100M-M		10-99
C 651	CP181P035A11	C-ELECTRBLTYIC	04W 100V 220M-M		10-99

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品名	仕様規格 1	仕様規格 2	材料 集
部品コード	品名	仕様規格 1	仕様規格 2
C 952 CP181P035A30	C-ELECTROLYTIC	04W 100V 470M-M	10-99
C 943 CP181P040A11	C-ELECTROLYTIC	04W 25V 4.7M-M	10-99
C 409 CP181P040A71	C-ELECTROLYTIC	04W 25V 220M-M	10-99
C 406 CP181P041A01	C-ELECTROLYTIC	04W 25V 1000M-M	10-99
C 981 CP181P041A41	C-ELECTROLYTIC	04W 10V 2200M-M	10-99
C 915 CP181P042A01	C-ELECTROLYTIC	04W 50V 1M-M	10-99
C 401 CP181P042A91	C-ELECTROLYTIC	04W 50V 220M-M	10-99
C 916 CP181P043A01	C-ELECTROLYTIC	04W 50V 330M-M	10-99
C 302 CP181P044A31	C-ELECTROLYTIC	04W 100V 33M-M	10-78
C 302 CP181P044A31	C-ELECTROLYTIC	04W 100V 33M-M	10-78
C 303 CP181P044A31	C-ELECTROLYTIC	04W 100V 33M-M	10-78
C 303 CP181P044A31	C-ELECTROLYTIC	04W 100V 33M-M	10-78
C 304 CP181P044A31	C-ELECTROLYTIC	04W 100V 33M-M	10-78
C 304 CP181P044A31	C-ELECTROLYTIC	04W 100V 33M-M	10-78
C 541 CP181P047A01	C-ELECTROLYTIC	04W 200V 22M-M	20-69
C 541 CP181P047A01	C-ELECTROLYTIC	04W 200V 22M-M	20-69
C 542 CP181P047A21	C-ELECTROLYTIC	04W 200V 47M-M	20-99
C 535 CP181P047A50	C-ELECTROLYTIC	04W 200V 220M-M	10-99
C 305 CP181P047A81	C-ELECTROLYTIC	04W 250V 1M-M	10-99
C 306 CP181P047A81	C-ELECTROLYTIC	04W 250V 1M-M	10-99
C 307 CP181P047A81	C-ELECTROLYTIC	04W 250V 1M-M	10-99
C 542 CP181P048A01	C-ELECTROLYTIC	04W 250V 3.3M-M	10-19
C 300 CP181P048A01	C-ELECTROLYTIC	04W 250V 3.3M-M	10-99
C 541 CP181P048A30	C-ELECTROLYTIC	04W 250V 22M-M	10-19
C 533 CP181P048A70	C-ELECTROLYTIC	04W 250V 220M-M	10-99
C 951 CP181P048A70	C-ELECTROLYTIC	04W 250V 220M-M	10-99
C 6E4 CP181P049A21	C-ELE	04W 450V 4.7M-M	10-99
C 942 CP181P049A21	C-ELE	04W 450V 4.7M-M	10-99
C 542 CP181P049A71	C-ELECTROLYTIC	04W 16V 1000M-M	10-99
C 982 CP181P049A71	C-ELECTROLYTIC	04W 16V 1000M-M	10-99
C 400 CP181P049A71	C-ELECTROLYTIC	04W 16V 1000M-M	20-20
C 400 CP181P049A71	C-ELECTROLYTIC	04W 16V 1000M-M	30-30
C 400 CP181P049A71	C-ELECTROLYTIC	04W 16V 1000M-M	40-40
C 400 CP181P049A71	C-ELECTROLYTIC	04W 16V 1000M-M	50-99
C 506 CP181P067A00	C-ELECTROLYTIC	16V 4700M	10-99
C 405 CP181P094A81	C-ELECTROLYTIC	04W 50V 470 M-M	10-99
C 603 CP181P097A70	C-ELECTROLYTIC	04W 100V 220M-M	10-99
C 958 CP181P144A90	C-ELECTROLYTIC	04W 250V 220M-M	10-99
C 273 CP181P172A61	C-ELECTROLYTIC-	04 16V 47 M-M-NP	10-69
C 277 CP181P172A61	C-ELECTROLYTIC-	04 16V 47 M-M-NP	10-69
C 277 CP181P172A61	C-ELECTROLYTIC-	04 16V 47 M-M-NP	10-69
C 281 CP181P172A61	C-ELECTROLYTIC-	04 16V 47 M-M-NP	10-69
C 296 CP181P172A61	C-ELECTROLYTIC-	04 16V 47 M-M-NP	10-69
C 296 CP181P172A61	C-ELECTROLYTIC-	04 16V 47 M-M-NP	10-69
C 275 CP181P172A71	C-ELECTROLYTIC-	04 16V 100 M-M-NP	10-99
C 242 CP181P175A41	C-ELECTROLYTIC-	04 50V 0.47 M-M-NP	10-99
C 717 CP181P175A61	C-ELECTROLYTIC-	04 50V 2.2 M-M-NP	10-99
C 963 CP181P181A71	C-ELECTROLYTIC	04W 10V 1000 M M	10-99
C 964 CP181P181A71	C-ELECTROLYTIC	04W 10V 1000 M M	10-99

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品名	仕樣規格 1	仕樣規格 2	材料 集
CP181P181A81	C-ELECTROLYTIC 04W 10V 2200M-M		10-99
CP181P181A81	C-ELECTROLYTIC 04W 10V 2200M-M		10-99
CP181P224A30	C-ELE 250V 560M-M		10-69
CP181P224A30	C-ELE 250V 560M-M		70-99
CP181P224A30	C-ELE 250V 560M-M		10-69
CP181P224A30	C-ELE 250V 560M-M		70-99
CP181P505A31	C-ELE-NP 16V 33MF NP		10-99
CP181P505A31	C-ELE-NP 16V 33MF NP		10-99
CP189P043A30	C-M-PBLYESTER-A AC250V 0.47M-M		70-99
CP189P043A30	C-M-PBLYESTER-A AC250V 0.47M-M		10-69
CP189P043A30	C-M-PBLYESTER-A AC250V 0.47M-M		70-99
CP189P043A30	C-M-PBLYESTER-A AC250V 0.47M-M		10-69
CP189P043A70	C-M-PBLYESTER-A AC250V 1.0M-M		70-99
CP189P043A70	C-M-PBLYESTER-A AC250V 1.0M-M		10-69
CP189P120A81	C-PLASTIC-PP 630V 0.0039MF-K	ECQ-F639	10-69
CP189P120A81	C-PLASTIC-PP 630V 0.0039MF-K	ECQ-F639	70-99
CP189P124A10	C-P-PP 100V 0.1742DF-J		10-50
CP189P124A10	C-P-PP 100V 0.1742DF-J		51-99
CP210A183A10	PWB-MAIN CP210P001		10-99
CP210A184A10	PWB-SET CP210P001		10-99
CP210A185A10	PWB(SMD)-DISPLA CP210P004		10-99
CP210D103A10	PWB-RELAY CP210P002		79-84
CP210P003C30	PCB-CANCEL PCB-CANCEL 12V 1.1K		30-80
CP210P003C30	PCB-CANCEL PCB-CANCEL 12V 1.1K		81-99
CP223C010A50	INSULATOR TC-45CG		10-99
CP223C010A60	INSULATOR TC-45CG		70-99
CP223D045A20	INSULATOR SILICON RUBBER	THN9105K (MI)	10-69
CP223D052A10	INSULATOR SILICON RUBBER	THN9105K (MI)	20-99
CP246B124A40	LEAD-CBNECTOR J304-J391	TFW9105K (MI)	10-99
CP246B126A20	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	10-73
CP246B126A30	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	10-99
CP246B126A50	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	10-99
CP246B126B10	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	10-99
CP246B126B20	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	74-99
CP246B126B40	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	10-99
CP246B126B70	LEAD-CBNECTOR UL1007 AWG22	TFW9105K (MI)	10-99
CP246B126B80	LEAD-CBNECTOR UL1007 AWG22	TFW9105K (MI)	10-99
CP246B126B90	LEAD-CBNECTOR UL1007 AWG22	TFW9105K (MI)	10-99
CP246B129A30	LEAD-CBNECTOR UL1061 AWG26	TFW9105K (MI)	10-99
CP246B129A60	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	10-99
CP246B129A80	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	10-19
CP246B129A90	LEAD-CBNECTOR UL1007 AWG26	TFW9105K	20-99
CP246B129B10	LEAD-CBNECTOR UL1672 AWG22	TFW9105K (MI)	10-99
CP246B129B20	LEAD-CBNECTOR UL1672 AWG22	TFW9105K (MI)	10-99
CP246B129B50	LEAD-CBNECTOR UL1061 AWG26	TFW9105K (MI)	10-99
CP246B129B60	LEAD-CBNECTOR UL1007 AWG26	TFW9105K	20-99
CP246B129B70	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	10-19
CP246B132A10	LEAD-CBNECTOR UL1007 AWG26	TFW9105K (MI)	79-84

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機種コード = 2A-19W4- - - 機種名 = TFW9105K

品名	仕機規格 1	規格 2	材料 東
品名	仕機規格 1	規格 2	材料 東
J 5P4	LEAD-CONNECTOR	UL1007 AWG26	TFW9105K (MI)
CP246B132A20	LEAD-CONNECTOR	UL1007 AWG26	TFW9105K (MI)
CP246B132A30	LEAD-CONNECTOR	UL1007 AWG26	TFW9105K (MI)
CP246B132A40	LEAD-CONNECTOR	UL1007 AWG26	TFW9105K (MI)
CP246B132A50	LEAD-CONNECTOR	UL1007 AWG26	TFW9105K (MI)
CP246C256A50	TERMINAL-LEAD	PVC-UL UL1015	THZB105K (MI)
CP246C303A30	FFC-CABLE	20P	TFW9105K
CP246C304A20	TERMINAL-LEAD		THN9105K (MT)
CP246C304A60	TERMINAL-LEAD		THN9105K (MT)
CP246C304A60	TERMINAL-LEAD		THN9105K (MT)
CP246C339A10	LEAD-CONNECTOR	UL1032 AWG22	TFW9105K (MI)
CP246C342B10	LEAD-CONNECTOR		TFW9105K (MT)
CP246C343A10	PIN-LEAD		TFW9105K (MI)
CP246C343A20	PIN-LEAD		TFW9105K (MI)
AG5F1	SURGE-ABSORBER	DSP-201M	
AG601	SURGE-ABSORBER	DSP-201M	
AG3B1	SURGE-ABSORBER	DSP-301N	
AG3G1	SURGE-ABSORBER	DSP-301N	
AG3R1	SURGE-ABSORBER	DSP-301N	
AG6E1	SURGE-ABSORBER	AG15PC152FB-K2M	
AG392	SURGE-ABSORBER	AG15PC152FB-K2M	
Q 981	TRANSISTOR	2SA1020	
Q 985	TRANSISTOR	2SA1020	
Q 988	TRANSISTOR	2SA1020	
Q 708	TRANSISTOR	2SA1020-Y	
Q 714	TRANSISTOR	2SA1020-Y	
Q 717	TRANSISTOR	2SA1020-Y	
Q 602	TRANSISTOR	2SC3621	
Q 401	TRANSISTOR	2SC3621	
Q 707	TRANSISTOR	2SC2655-Y	
Q 713	TRANSISTOR	2SC2655-Y	
Q 715	TRANSISTOR	2SC2655-Y	
Q 217	TRANSISTOR	2SC2655-Y	
Q 6E3	TRANSISTOR	2SC1815 BL GR Y	
Q 217	TRANSISTOR	2SC1815 BL GR Y	
Q 700	TRANSISTOR-CHIP	2SC2412K-R	
Q 703	TRANSISTOR-CHIP	2SC2412K-R	
Q 709	TRANSISTOR-CHIP	2SC2412K-R	
Q 722	TRANSISTOR-CHIP	2SC2412K-R	
Q 728	TRANSISTOR-CHIP	2SC2412K-R	
Q 729	TRANSISTOR-CHIP	2SC2412K-R	
Q 730	TRANSISTOR-CHIP	2SC2412K-R	
Q 212	TRANSISTOR-CHIP	2SC2412K-R	
Q 216	TRANSISTOR-CHIP	2SC2412K-R	
Q 402	TRANSISTOR-CHIP	2SC2412K-R	
Q 100	TRANSISTOR-CHIP	2SA1037K-R	
Q 701	TRANSISTOR-CHIP	2SA1037K-R	
Q 706	TRANSISTOR-CHIP	2SA1037K-R	
Q 710	TRANSISTOR-CHIP	2SA1037K-R	
Q 718	TRANSISTOR-CHIP	2SA1037K-R	
Q 719	TRANSISTOR-CHIP	2SA1037K-R	
Q 723	TRANSISTOR-CHIP	2SA1037K-R	

機種コード = 2A-19W4- - - 機種名 = TFW9105K

品名	仕様規格1	規格2	材料
子部品コード	品名	規格2	証明
諸元	品名	規格2	証明
Q 213	CP260P114A11	TRANSISTOR-CHIP	2SA1037K-R
Q 200	CP260P119A11	TRANSISTOR	2SA1462-T2B,Y34
Q 203	CP260P119A11	TRANSISTOR	2SA1462-T2B,Y34
Q 207	CP260P119A11	TRANSISTOR	2SA1462-T2B,Y34
Q 6A1	CP260P130A11	TRANSISTOR	2SA1015
Q 6E4	CP260P130A11	TRANSISTOR	2SA1015
Q 5F1	CP260P138A11	TRANSISTOR	2SC 2240
Q 403	CP260P140A10	TRANSISTOR	2SA1408
Q 201	CP260P144A11	TRANSISTOR-CHIP	2SC3338AR02
Q 202	CP260P144A11	TRANSISTOR-CHIP	2SC3338AR02
Q 204	CP260P144A11	TRANSISTOR-CHIP	2SC3338AR02
Q 205	CP260P144A11	TRANSISTOR-CHIP	2SC3338AR02
Q 206	CP260P144A11	TRANSISTOR-CHIP	2SC3338AR02
Q 208	CP260P144A11	TRANSISTOR-CHIP	2SC3338AR02
Q 6A2	CP260P185A10	TRANSISTOR	2SC4632
Q 6E2	CP260P185A10	TRANSISTOR	2SC4632
Q 521	CP260P202A20	MOS-FET	2SJ307
Q 522	CP260P202A30	MOS-FET	2SJ307 (FORMING)
Q 522	CP260P202A30	MOS-FET	2SJ307 (FORMING)
Q 5F2	CP260P223A11	TRANSISTOR	2SC1473-R
Q 5F3	CP260P224A11	TRANSISTOR	2SA1018-R
Q 518	CP260P249A30	MOS-FET	IRF1640G (FORMING)
Q 6E1	CP260P250A10	TRANSISTOR	2SC4634
Q 726	CP260P259A11	TRANSISTOR	2SC2733HTR
Q 727	CP260P259A11	TRANSISTOR	2SC2733HTR
Q 209	CP260P259A11	TRANSISTOR	2SC2733HTR
Q 210	CP260P259A11	TRANSISTOR	2SC2733HTR
Q 211	CP260P259A11	TRANSISTOR	2SC2733HTR
Q 502	CP260P271A10	MOS-FET	2SJ380
Q 502	CP260P271A10	MOS-FET	2SJ380
Q 515	CP260P273A10	MOS-FET	2SK2098-O1M
Q 516	CP260P273A10	MOS-FET	2SK2098-O1M
Q 517	CP260P273A10	MOS-FET	2SK2098-O1M
Q 503	CP260P282A30	TRANSISTOR	2SC5244A-FORMING
Q 503	CP260P282A30	TRANSISTOR	2SC5244A-FORMING
Q 5P1	CP260P304A11	TRANSISTOR	DTC114WSA
Q 508	CP260P304A11	TRANSISTOR	DTC114WSA
Q 509	CP260P304A11	TRANSISTOR	DTC114WSA
Q 510	CP260P304A11	TRANSISTOR	DTC114WSA
Q 511	CP260P304A11	TRANSISTOR	DTC114WSA
Q 512	CP260P304A11	TRANSISTOR	DTC114WSA
Q 513	CP260P304A11	TRANSISTOR	DTC114WSA
Q 903	CP260P304A11	TRANSISTOR	DTC114WSA
Q 982	CP260P304A11	TRANSISTOR	DTC114WSA
Q 983	CP260P304A11	TRANSISTOR	DTC114WSA
Q 986	CP260P304A11	TRANSISTOR	DTC114WSA
Q 987	CP260P304A11	TRANSISTOR	DTC114WSA
Q 711	CP260P305A11	TRANSISTOR	DTC143TUA T107
Q 712	CP260P305A11	TRANSISTOR	DTC143TUA T107
Q 720	CP260P305A11	TRANSISTOR	DTC143TUA T107
Q 724	CP260P305A11	TRANSISTOR	DTC143TUA T107
Q 733	CP260P305A11	TRANSISTOR	DTC143TUA T107

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

NO.

LOT NO.

機種名 = 2A-19W4- - 機種名 = TFW9105K

品名	仕様規格 1	規格 2	材料 数
子部品コード	品名	仕様規格 1	規格 2
Q 734 CP260P305A11	TRANSISTOR	DTC143TUA T107	20-99
Q 737 CP260P305A11	TRANSISTOR	DTC143TUA T107	20-99
Q 738 CP260P305A11	TRANSISTOR	DTC143TUA T107	20-99
Q 739 CP260P305A11	TRANSISTOR	DTC143TUA T107	20-99
Q 400 CP260P305A11	TRANSISTOR	DTC143TUA T107	20-99
Q 404 CP260P305A11	TRANSISTOR	DTC143TUA T107	20-99
Q 405 CP260P305A11	TRANSISTOR	DTC143TUA T107	20-99
Q 407 CP260P305A11	TRANSISTOR	DTC143TUA T107	20-99
Q 523 CP260P307A10	TRANSISTOR	2SD1073	10-99
Q 601 CP260P316A20	MOS-FET	2SK2675-FORMING	10-69
Q 601 CP260P316A20	MOS-FET	2SK2675-FORMING	70-99
Q 501 CP260P323A10	MOS-FET	2SJ377	10-69
Q 501 CP260P323A10	MOS-FET	2SJ377	70-99
Q 504 CP260P325A10	MOS-FET	2SK2292	10-69
Q 504 CP260P325A10	MOS-FET	2SK2292	70-99
Q 505 CP260P325A10	MOS-FET	2SK2292	10-69
Q 505 CP260P325A10	MOS-FET	2SK2292	70-99
Q 518 CP260P326A20	MOS-FET	2SK2520-FORMING	10-19
Q 519 CP260P326A20	MOS-FET	2SK2520-FORMING	10-69
Q 519 CP260P326A20	MOS-FET	2SK2520-FORMING	70-99
Q 520 CP260P326A20	MOS-FET	2SK2520-FORMING	10-69
Q 520 CP260P326A20	MOS-FET	2SK2520-FORMING	70-99
Q 731 CP260P327A11	MOS-FET	2SK1133	10-99
Q 732 CP260P327A11	MOS-FET	2SK1133	10-99
Q 735 CP260P327A11	MOS-FET	2SK1133	10-99
Q 736 CP260P327A11	MOS-FET	2SK1133	10-99
Q 100 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 701 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 706 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 710 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 718 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 719 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 723 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 728 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 729 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 730 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 213 CP260P330A11	TRANSISTOR-CHIP	2SA1530	10-19
Q 700 CP260P331A11	TRANSISTOR-CHIP	2SC3928	10-19
Q 703 CP260P331A11	TRANSISTOR-CHIP	2SC3928	10-19
Q 709 CP260P331A11	TRANSISTOR-CHIP	2SC3928	10-19
Q 722 CP260P331A11	TRANSISTOR-CHIP	2SC3928	10-19
Q 216 CP260P331A11	TRANSISTOR-CHIP	2SC3928	10-19
Q 402 CP260P331A11	TRANSISTOR-CHIP	2SC3928	10-19
Q 711 CP260P332A11	TRANSISTOR-CHIP	RT1N430M	10-19
Q 712 CP260P332A11	TRANSISTOR-CHIP	RT1N430M	10-19
Q 720 CP260P332A11	TRANSISTOR-CHIP	RT1N430M	10-19
Q 724 CP260P332A11	TRANSISTOR-CHIP	RT1N430M	10-19
Q 733 CP260P332A11	TRANSISTOR-CHIP	RT1N430M	10-19
Q 734 CP260P332A11	TRANSISTOR-CHIP	RT1N430M	10-19
Q 737 CP260P332A11	TRANSISTOR-CHIP	RT1N430M	10-19
Q 738 CP260P332A11	TRANSISTOR-CHIP	RT1N430M	10-19
Q 739 CP260P332A11	TRANSISTOR-CHIP	RT1N430M	10-19

NO.

PART NO.

DESCRIPTION / SPECIFICATION

QTY

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LOT NO.

機種コード = 2A-19W4- - - 機種名 TFW9105K

部号	部品コード	品名	仕様規格1	規格2	材料	数量
Q 400	CP260P332A11	TRANSISTOR-CHIP	RT1N430M		10-19	1
Q 404	CP260P332A11	TRANSISTOR-CHIP	RT1N430M		10-19	1
Q 405	CP260P332A11	TRANSISTOR-CHIP	RT1N430M		10-19	1
Q 407	CP260P332A11	TRANSISTOR-CHIP	RT1N430M		10-19	1
IC400	CP263P037A20	IC	LA7838K	TFW9105K	10-69	1
IC400	CP263P037A20	IC	LA7838K	TFW9105K	70-99	1
IC711	CP263P078A10	IC-REGULATOR	AN7905F		10-99	1
IC953	CP263P079A10	IC-REGULATOR	AN7912F		10-99	1
IC5P1	CP263P084A10	IC-REGULATOR	AN7712F		30-30	1
IC5P1	CP263P084A10	IC-REGULATOR	AN7712F		51-99	1
IC952	CP263P084A10	IC-REGULATOR	AN7712F		10-99	1
IC714	CP263P086A10	IC	LA7860		10-99	1
IC403	CP263P101A11	IC-MOS-SOP	MC14051BF		10-99	1
IC404	CP263P101A11	IC-MOS-SOP	MC14051BF		10-99	1
IC405	CP263P101A11	IC-MOS-SOP	MC14051BF		10-99	1
IC200	CP263P107A10	IC-LINEAR	M52320SP		10-99	1
IC981	CP263P116A10	IC	AN7705F		10-99	1
IC5A2	CP263P120A10	IC	TDA2040-V		10-99	1
IC702	CP263P121A11	IC-LINEAR	NJM084M		10-99	1
IC705	CP263P126A10	IC-REGULATOR	AN7824F		10-99	1
IC716	CP263P128A11	IC-LINEAR	BA10324AF-T1		10-99	1
IC204	CP263P128A11	IC-LINEAR	BA10324AF-T1		10-99	1
IC305	CP263P129A11	IC-LINEAR	BA4558F-T1		10-99	1
IC700	CP263P130A11	IC-LINEAR	BA14741F-T1		10-99	1
IC705	CP263P130A11	IC-LINEAR	BA14741F-T1		10-99	1
IC710	CP263P130A11	IC-LINEAR	BA14741F-T1		10-99	1
IC715	CP263P131A11	IC-LINEAR	BA10393F-T1		10-99	1
IC203	CP263P153A10	IC	CXA2016S		10-69	1
IC203	CP263P153A10	IC	CXA2016S		70-99	1
IC107	CP263P174A11	IC-REGULATOR	AN1431M		10-69	1
IC107	CP263P174A11	IC-REGULATOR	AN1431M		70-99	1
IC206	CP263P177A10	IC-LINEAR	M52348SP		10-50	1
IC206	CP263P177A10	IC-LINEAR	M52348SP		51-99	1
IC5A1	CP263P510A10	IC-LINEAR	TL082CP		10-99	1
D 606	CP264D005A11	D18DE	EU-1Z/RGP10D		10-99	1
D 401	CP264D005A11	D18DE	EU-1Z/RGP10D		10-99	1
D 404	CP264D005A11	D18DE	EU-1Z/RGP10D		10-99	1
D 405	CP264D005A11	D18DE	EU-1Z/RGP10D		10-99	1
D 526	CP264P028A11	D18DE	EG01Y		10-99	1
D 505	CP264P058B20	D18DE	RG2A2-LF-B1		10-69	1
D 505	CP264P058B20	D18DE	RG2A2-LF-B1		70-99	1
D 506	CP264P058B20	D18DE	RG2A2-LF-B1		10-69	1
D 506	CP264P058B20	D18DE	RG2A2-LF-B1		70-99	1
D 507	CP264P058B20	D18DE	RG2A2-LF-B1		10-69	1
D 507	CP264P058B20	D18DE	RG2A2-LF-B1		70-99	1
D 508	CP264P058B20	D18DE	RG2A2-LF-B1		10-69	1
D 508	CP264P058B20	D18DE	RG2A2-LF-B1		70-99	1
D 9A1	CP264P064A20	LED	PY3822K-FORMING		10-99	1
D 541	CP264P073A41	D18DE	HZ583		10-99	1
D 542	CP264P073A41	D18DE	HZ583		10-99	1
D 543	CP264P073A41	D18DE	HZ583		10-99	1
D 607	CP264P075A11	D18DE	HZ782	(DH)	10-99	1

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

29

機種コード = 2A-19W4- - - 機種名 = TFW9105K

部号	子部品コード	品名	仕様規格 1	規格 2	材料 集
					証明 数
D 905	CP264P080A61	DI8DE	HZ11B3		10-99
D 954	CP264P115A10	DI8DE	EGP30D	20MM	10-99
D 511	CP264P124A11	DI8DE	EU2A		10-99
D 512	CP264P124A11	DI8DE	EU2A		10-99
D 909	CP264P127A30	DI8DE	R4KL-M1		10-69
D 909	CP264P127A30	DI8DE	R4KL-M1		70-99
D 910	CP264P127A30	DI8DE	R4KL-M1		10-69
D 910	CP264P127A30	DI8DE	R4KL-M1		70-99
D 981	CP264P134A30	DI8DE	RL42-K1		10-99
D 520	CP264P151A11	DI8DE	RGPI5D		10-99
D 521	CP264P151A11	DI8DE	RGPI5J-6040		10-99
D 522	CP264P151A11	DI8DE	RGPI5J-6040		10-99
D 523	CP264P154A11	DI8DE	RGPI5J-6040		10-99
D 501	CP264P173A91	ZENER	RGPI5D		10-99
D 317	CP264P180A71	DI8DE-ZENER	HZS6C1L		20-99
D 737	CP264P180A71	DI8DE-ZENER	HZS6C1L		10-99
D 503	CP264P182A81	DI8DE-ZENER	HZS11A1L		10-99
D 515	CP264P182A81	DI8DE-ZENER	HZS11A1L		10-99
D 517	CP264P182A81	DI8DE-ZENER	HZS11A1L		10-99
D 518	CP264P182A81	DI8DE-ZENER	HZS11A1L		10-99
D 608	CP264P182A81	DI8DE-ZENER	HZS11A1L		10-99
D 513	CP264P185A11	DI8DE-ZENER	HZS16-2L		10-99
D 514	CP264P185A11	DI8DE-ZENER	HZS16-2L		10-99
D 602	CP264P222A10	DI8DE	UF5408		10-99
D 907	CP264P222A10	DI8DE	UF5408		10-99
D 911	CP264P223A11	DI8DE	MPG06M		10-99
D 912	CP264P223A11	DI8DE	MPG06M		10-99
D 605	CP264P228A11	DI8DE	MPG06JG23		10-99
D 519	CP264P231A10	DI8DE	S2L60		10-99
D 502	CP264P231A20	DI8DE	S2L60-01P12.5	12.5MM	10-99
D 516	CP264P231A20	DI8DE	S2L60-01P12.5	12.5MM	10-99
D 716	CP264P235A11	DI8DE	HSK110-TR		10-99
D 5F1	CP264P250A21	DI8DE	EGP10D STRAIGHT		10-99
D 6E3	CP264P250A21	DI8DE	EGP10D STRAIGHT		10-99
D 509	CP264P251A10	DI8DE	FMP-G5HS		10-99
D 6E1	CP264P258A10	DI8DE	RG-1C		10-99
D 6E2	CP264P258A10	DI8DE	RG-1C		10-99
D 100	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 101	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 102	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 109	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 110	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 111	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 112	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 113	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 114	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 115	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 116	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 117	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 118	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99
D 119	CP264P262A71	DI8DE-ZENER-CHI	RLZ5.6B TE-11		10-99

QTY

DESCRIPTION / SPECIFICATION

PART NO.

ON

慢種子 TFW9105K

機種ゴ一ト= 2A-19W4-

$$x = y = 5$$

• • • • •

品名	仕樣規格1	規格2	材料	數量
D 120	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 121	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 122	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 123	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 124	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 125	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 126	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 127	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 128	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 132	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 724	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 207	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 208	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 211	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 213	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 214	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 215	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 216	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 219	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 220	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 227	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 228	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 400	CP264P262A71	DI0DE-ZENER-CHI	RLZ5.6B TE-11	10-99
D 702	CP264P263A61	DI0DE-ZENER-CHI	RLZ7.5B TE-11	10-99
D 732	CP264P264A51	DI0DE-ZENER-CHI	RLZ10B TE-11	10-99
D 103	CP264P265A41	DI0DE-ZENER-CHI	RLZ13A TE-11	10-99
D 104	CP264P265A41	DI0DE-ZENER-CHI	RLZ13A TE-11	10-99
D 105	CP264P265A41	DI0DE-ZENER-CHI	RLZ13A TE-11	10-99
D 106	CP264P265A41	DI0DE-ZENER-CHI	RLZ13A TE-11	10-99
D 107	CP264P265A41	DI0DE-ZENER-CHI	RLZ13A TE-11	10-99
D 108	CP264P265A41	DI0DE-ZENER-CHI	RLZ13A TE-11	10-99
D 129	CP264P270A11	DI0DE-ZENER-CHI	RLZ13A TE-11	10-99
D 130	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 131	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 701	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 703	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 706	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 718	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 723	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 725	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 726	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 727	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 728	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 729	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 730	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 731	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 733	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 736	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 738	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 739	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 740	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99
D 741	CP264P270A11	DI0DE-CHIP	RLS-71 TE-11	10-99

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

價目コード = 2A-19W4- - - 價目名 = TFW9105K

品名	仕樣規格 1	仕樣規格 2	材料 乘
D 734 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 735 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 742 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 743 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 212 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 217 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 218 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 226 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 230 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 231 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 232 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 313 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 314 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 315 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 316 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 403 CP264P270A11	DI8DE-CHIP	規格 1	規格 2
D 987 CP264P301A81	DI8DE	規格 1	規格 2
D 300 CP264P320A11	DI8DE	規格 1	規格 2
D 301 CP264P320A11	DI8DE	規格 1	規格 2
D 302 CP264P320A11	DI8DE	規格 1	規格 2
D 303 CP264P320A11	DI8DE	規格 1	規格 2
D 304 CP264P320A11	DI8DE	規格 1	規格 2
D 305 CP264P320A11	DI8DE	規格 1	規格 2
D 306 CP264P320A11	DI8DE	規格 1	規格 2
D 307 CP264P320A11	DI8DE	規格 1	規格 2
D 308 CP264P320A11	DI8DE	規格 1	規格 2
D 309 CP264P320A11	DI8DE	規格 1	規格 2
D 310 CP264P320A11	DI8DE	規格 1	規格 2
D 311 CP264P320A11	DI8DE	規格 1	規格 2
D 955 CP264P328A11	DI8DE	規格 1	規格 2
D 955 CP264P328A11	DI8DE	規格 1	規格 2
D 601 CP264P340A10	DI8DE	規格 1	規格 2
D 601 CP264P340A10	DI8DE	規格 1	規格 2
D 951 CP264P340A10	DI8DE	規格 1	規格 2
D 952 CP264P340A10	DI8DE	規格 1	規格 2
D 952 CP264P340A10	DI8DE	規格 1	規格 2
D 603 CP264P341A41	DI8DE	規格 1	規格 2
D 604 CP264P341A41	DI8DE	規格 1	規格 2
D 510 CP264P341A51	DI8DE	規格 1	規格 2
D 903 CP264P342A11	DI8DE	規格 1	規格 2
D 903 CP264P342A11	DI8DE	規格 1	規格 2
D 904 CP264P342A11	DI8DE	規格 1	規格 2
D 904 CP264P342A11	DI8DE	規格 1	規格 2
D 931 CP264P342A11	DI8DE	規格 1	規格 2
D 931 CP264P342A11	DI8DE	規格 1	規格 2
D 913 CP264P342A11	DI8DE	規格 1	規格 2
D 913 CP264P342A11	DI8DE	規格 1	規格 2
D 914 CP264P342A11	DI8DE	規格 1	規格 2
D 914 CP264P342A11	DI8DE	規格 1	規格 2
D 902 CP264P343A10	DI8DE	規格 1	規格 2
D 902 CP264P343A10	DI8DE	規格 1	規格 2

NO. PART NO. DESCRIPTION / SPECIFICATION QTY

機種コード = 2A-19W4- - - 機種名 = TFW9105K

LOT NO.

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品名	仕様規格1	規格2	材料	数量
品名	仕様規格1	規格2	材料	数量
D 908 CP264P343A10	DIODE	SF8L60	10-69	1
D 908 CP264P343A10	DIODE	SF8L60	70-99	1
D 956 CP264P345A20	DIODE	S3L20U 4004P20	10-69	1
D 956 CP264P345A20	DIODE	S3L20U 4004P20	70-99	1
D 957 CP264P345A20	DIODE	S3L20U 4004P20	10-69	1
D 957 CP264P345A20	DIODE	S3L20U 4004P20	70-99	1
D 200 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 201 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 203 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 204 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 205 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 209 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 223 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 224 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 225 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 229 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 312 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 402 CP264P360A11	DIODE-CHIP	DAN217 T147	10-99	1
D 527 CP264P362A10	DIODE-ZENER	AU01-07	10-69	1
D 527 CP264P362A10	DIODE-ZENER	AU01-07	70-99	1
D 504 CP264P522A30	DIODE	RL22 LF-B1	10-69	1
D 504 CP264P522A30	DIODE	RL22 LF-B1	70-99	1
RP901 CP265P069A10	PBS1STOR	9X-4 TDK/9X-4 MURATA	10-69	1
RP901 CP265P069A10	PBS1STOR	9X-4 TDK/9X-4 MURATA	70-99	1
RP902 CP265P069A10	PBS1STOR	9X-4 TDK/9X-4 MURATA	20-99	1
RV901 CP265P082A31	VAR1STOR	ERZV10D471	10-99	1
IC104 CP266P097A51	IC-MOS	MB883468PF	10-99	1
IC1712 CP266P121A21	IC-TTL	HD74LS14FP-TR	10-99	1
IC103 CP266P142A21	IC	MB3773PF-G-8ND-TF	10-99	1
IC102 CP266P160A11	IC-MOS-SGP	CAT24C16JI	10-99	1
IC1X3 CP266P162A11	IC-MOS-SGP	ADM232LJR	10-99	1
IC106 CP266P182A11	IC-MOS-EEPROM	24LC21SN	10-99	1
IC202 CP266P190A10	IC-8SD	M35045-053SP	10-99	1
IC703 CP266P191A11	IC	CM0002AM	10-99	1
IC105 CP266P192A30	IC-MOS	HD6473294F16	10-69	1
IC105 CP266P192A30	IC-MOS	HD6473294F16	70-99	1
IC704 CP266P190A11	IC-MOS-CHIP	AD8842AR	10-99	1
IC701 CP267P051A10	IC	MB434116P-G	10-99	1
IC904 CP267P061A10	HIC	MJ2400	10-99	1
IC905 CP267P065A10	HIC	STR83145 FORMING	10-69	1
IC905 CP267P065A10	HIC	STR83145 FORMING	70-99	1
IC301 CP267P069A10	HIC	STK190-Q20	10-99	1
IC601 CP267P088A10	HIC	MSPAC003	10-69	1
IC601 CP267P088A10	HIC	MSPAC003	70-99	1
IC901 CP267P092A20	HIC	MA6930-4109	10-69	1
IC901 CP267P092A20	HIC	MA6930-4109	70-99	1
IC602 CP267P093A10	HIC	HIC H8P7300	10-69	1
IC602 CP267P093A10	HIC	HIC H8P7300	70-99	1
IC300 CP267P096A10	HIC	CR6927A	10-19	1
IC300 CP267P096A10	HIC	CR6927A	20-99	1
IC931 CP267P097A20	HIC	MA2810-4109	10-69	1
IC931 CP267P097A20	HIC	MA2810-4109	70-99	1

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

NO.

子部品コード

品名

仕様規格 1

規格 2

材料 果

証明 数

LOT NO.

機種名 = TFW9105K

諸元	子部品コード	品名	仕様規格 1	規格 2	材料 果
IC100	CP267P901A10	IC-ASIC	D1606A		1
IC902	CP268P009A10	PHOT-CHUPLER	M8C8104TV		1
IC902	CP268P009A10	PHOT-CHUPLER	M8C8104TV		1
IC903	CP268P009A10	PHOT-CHUPLER	M8C8104TV		1
IC903	CP268P009A10	PHOT-CHUPLER	M8C8104TV		1
IC906	CP268P009A10	PHOT-CHUPLER	M8C8104TV		1
IC906	CP268P009A10	PHOT-CHUPLER	M8C8104TV		1
IC713	CP270P026A31	IC LSTTL(E-SBP)	HD74LS221SBP/SN74LS		1
IC713	CP270P037A11	IC-TTL	DM74LS221MX		1
IC708	CP272P110A11	IC-FITL	74FO05J		1
IC707	CP272P112A11	IC-FITL	74F745J		1
F 300	CP283P016A11	FUSE	251 500 500MA		1
F 981	CP283P016A81	FUSE	251004 4A		1
F 982	CP283P016A81	FUSE	251004 4A		1
F 951	CP283P016A91	FUSE	251005 5A		1
F 952	CP283P016A91	FUSE	251005 5A		1
F 953	CP283P016A91	FUSE	251005 5A		1
F 954	CP283P016A91	FUSE	251005 5A		1
F 955	CP283P016A91	FUSE	251005 5A		1
F 901	CP283P017A70	FUSE	251005 5A		1
X 100	OP285P008A10	CRYSTAL	HC49/U-S*16MHZ		1
RY901	CP287P021A20	RELAY	G2R-2A-SKVD DC12		1
RV5P1	CP287P028A10	RELAY	SY-12-K		1
L 602	CP321P030A71	EARTH-CRT	C5191P-1/2H T0.3	THN9105K	4
L 601	CP321P031A21	CGIL-RF	10MH-K	100 S6	1
L 601	CP321P031A31	CGIL-RF	27MH-K	330 S6	1
L 510	CP321P031A81	CGIL-RF	33MH-K	820 S6	1
L 510	CP321P031A81	CGIL-RF	82MH-K	820 S6	1
L 511	CP321P031A81	CGIL-RF	82MH-K	331 S6	1
L 517	CP321P032A51	CGIL-RF	330MH-K	331 S6	1
L 509	CP321P051A01	CGIL-RF	100712B-K		1
L 951	CP321P051A01	CGIL-RF	100712B-K		1
L 952	CP321P051A01	CGIL-RF	100712B-K		1
L 953	CP321P051A01	CGIL-RF	100712B-K		1
L 954	CP321P051A01	CGIL-RF	100712B-K		1
L 955	CP321P051A01	CGIL-RF	100712B-K		1
L 956	CP321P051A01	CGIL-RF	100712B-K		1
L 957	CP321P051A01	CGIL-RF	100712B-K		1
L 981	CP321P051A01	CGIL-RF	100712B-K		1
L 301	CP321P051A01	CGIL-RF	100712B-K		1
L 308	CP321P051A01	CGIL-RF	100712B-K		1
L 400	CP321P051A01	CGIL-RF	100712B-K		1
L 215	CP321P051A01	CGIL-RF	100712B-K		1
L 705	CP321P051A61	CGIL-RF	100712B-K		1
L 705	CP321P051A61	CGIL-RF	1000M-K		1
L 501	CP321P060A51	CGIL-CH8KE	4.7MH-K 4R7 S6		1
L 502	CP321P082A11	CGIL-RF	220712BH		1
L 506	CP321P110A10	CGIL-RF	SM4L01-O.12MH	(MI)	1
L 506	CP321P110A10	CGIL-RF	SM4L01-O.12MH	(MI)	1
L 903	CP321P130A10	TRANS-CH8KE	Z753103	(MI)	1
L 903	CP321P130A10	TRANS-CH8KE	Z753103	(MI)	1

DESCRIPTION / SPECIFICATION

PART NO.

NO.

QTY

機種コード = 2A-19W4- - - 機種名 = TFW9105K

品名	仕様規格 1	規格 2	材料 東
品名	仕様規格 1	規格 2	材料 東
L 514 CP321P156A30	CBIL-CHOKE	SL2125-222KR87	2200r120
L 514 CP321P156A30	CBIL-CHOKE	SL2125-222KR87	2200r120
T 502 CP332P022A10	TRANS-HORIZ-OSC	H.O.T	(MI)
L 508 CP333P033A10	CBIL-HORIZ-LIN	CBIL-HORIZ-LIN	
L 508 CP333P033B10	CBIL-HORIZ-LIN		
T 601 CP334P053A10	TRANS-FLYBACK	MSU1FUS06	(MD)
T 601 CP334P053B10	TRANS-FLYBACK	MSU1FUS06	(MD)
T 501 CP338P016B10	H.D.T	H.D.T(T-DRIVE)	(MI)
T 503 CP349P012A10	TRANS-CURRENT	TME115	(MI)
T 901 CP350P064A10	TRANS-POWER	ZTS3102	(MI)
T 901 CP350P064B10	TRANS-POWER	ZTS3102	(MI)
T 931 CP350P065A10	TRANS-POWER	ZTS3132	(MI)
L 901 CP351P051A60	LINE-FILTER	3.OA 8.2r/H	(MI)
L 902 CP351P051A60	LINE-FILTER	3.OA 8.2r/H	(MI)
CP409B023A10	CBIL-DEGAUSSING		
CP409B023A30	CBIL-DEGAUSSING	THW9105K (MT)	10-19
CP409C013A20	R-CBIL	TFW9105K (MT)	20-99
CP409C014A10	P-CBIL	THN9105K (MI)	10-99
CP409C014B10	P-CBIL	THN9105K (MI)	10-19
CP409C014C10	P-CBIL	THN9105K (MI)	20-50
CP409P069A10	TRANS-CHOKE	THN9105K (MI)	51-99
CP410D013A40	CBRE-FERRITE		10-99
CP410D013A40	CBRE-FERRITE		10-69
CP410P003A30	CBRE-FERRITE		70-99
L 503 CP410P010A11	BEAD-FERRITE	RISC-6-F	10-99
L 504 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 505 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 512 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 513 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 515 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 516 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 6A1 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-19
L 6R1 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 6R2 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 6R3 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 6R4 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 6R5 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 6R6 CP410P010A11	BEAD-FERRITE	LFW7A-M3R2	10-99
L 507 CP410P011A11	BEAD-FERRITE	LFW7A-M5R2	10-99
L 6R7 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 6R8 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 603 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 700 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 701 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 702 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 703 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 704 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 300 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 302 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 303 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 304 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99
L 312 CP410P012B11	BEAD-FERRITE	FBR07HA850	10-99

LOT NO.

LOT NO.

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機 值 名 = TFW9105K

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機種コード = 2A-19W4- - 減価名 = TFW9105K

品名	仕様規格1	規格2	材料	数量
子部品コード	品名	仕様規格1	規格2	数量
J 509	CP452C509A20	CONNECTOR	B2B-XH-A	1
J 514	CP452C509A20	CONNECTOR	B2B-XH-A	1
J 513	CP452C509A30	CONNECTOR	B3B-XH-A	1
J 301	CP452C509A31	CONNECTOR	B3B-XH-A(M)	1
J 302	CP452C509A31	CONNECTOR	B3B-XH-A(M)	1
J 303	CP452C509A31	CONNECTOR	B3B-XH-A(M)	1
AC	CP452D015A10	CONNECTOR-VH	B2P3-VH	(MT)
J 400	CP452D017A30	CONNECTOR	TN-50P-O3-V1	1
J 505	CP452P181A20	CONNECTOR-FFC	20FE-BT-VK-N	(MI)
J 505	CP452P181A20	CONNECTOR-FFC	20FE-BT-VK-N	(MI)
J 506	CP452P181A20	CONNECTOR-FFC	20FE-BT-VK-N	(MI)
J 506	CP452P181A20	CONNECTOR-FFC	20FE-BT-VK-N	(MI)
J 101	CP452P181A20	CONNECTOR-FFC	20FE-BT-VK-N	(MI)
J 101	CP452P181A20	CONNECTOR-FFC	20FE-BT-VK-N	(MI)
J 102	CP452P181A20	CONNECTOR-FFC	20FE-BT-VK-N	(MI)
J 102	CP452P181A20	CONNECTOR-FFC	20FE-BT-VK-N	(MI)
J 1F4	CP452P181A30	CONNECTOR-FFC	03FE-BT-VK-N	(MI)
J 1F4	CP452P181A30	CONNECTOR-FFC	03FE-BT-VK-N	(MI)
J 1F5	CP452P181A30	CONNECTOR-FFC	03FE-BT-VK-N	(MI)
J 1F5	CP452P181A30	CONNECTOR-FFC	03FE-BT-VK-N	(MI)
JTC01	CP452P184A50	CONNECTOR	12FMZ-ST	1
JTC01	CP452P184A50	CONNECTOR	12FMZ-ST	1
JTC02	CP452P185A50	CONNECTOR	12FMZ-BT	1
JTC03	CP452P185A50	CONNECTOR	12FMZ-BT	1
J 100	CP452C001A10	CONNECTOR-MINI-	MD-TS8330H-10	(MI)
	CP454C000A20	LEAD-CLAMPER	NYLON-6 CM1017	(MI)
	CP540C004A20	LEAD-CLAMPER	CKN-07	HG6905K
	CP540C004A20	LEAD-CLAMPER	CKN-10	
	CP540C012A10	ANGLE-CLAMPER	NYLON 6 NBVAMID R 10 13C5	(MI)
	CP540C021A10	CLAMPER-DG	NYLON6	(MI)
	CP540C023A10	LEAD-CLAMPER	EDS-17L	THZ8105S
	CP540C025A10	LEAD-CLAMPER	KGES-10	THZ8105S
	CP540C035A10	SPACER		(MI)
	CP540D000A10	BAND-KM	66 NYLON	XC-1412C
	CP540D000A10	BAND-KM	66 NYLON	XC-1412C
	CP540D000A10	BAND-KM	66 NYLON	XC-1412C
	CP540D000A10	BAND-KM	66 NYLON	XC-1412C
	CP540D000A10	BAND-KM	66 NYLON	XC-1412C
	CP540D000A10	BAND-KM	66 NYLON	XC-1412C
	CP540D000A10	LEAD-CLAMPER	CLAMPER	(MI)
	CP540D010A10	CLAMPER	CLAMPER	(MI)
	CP540D011A10	LEAD-CLAMPER	NYLON 6	(MI)
	CP540D040A10	LEAD-CLAMPER	WS-2NS	THN9105K
	CP540D040A10	LEAD-CLAMPER	WS-2NS	THN9105K
	CP540D041A10	LEAD-CLAMPER	NYLON 66	THN9105K
	CP540D049A10	LEAD-CLAMPER		TFW9105K
	CP540D052A10	LEAD-CLAMPER		(MI)
	CP549C004A10	CARD-SPACER		(MI)
	CP549D005A20	CARD-SPACER		(MI)
	CP549D005A20	CARD-SPACER		(MI)
	CP549D020A10	CARD-SPACER	NYLON66	KGPS-8RF

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

機種名 = TFW9105K

品名	仕様規格1	規格2	材料表 証明数
子部品コード			
CP549D020A60	CARD-SPACER	TFW9105K	2
CP549D024A10	CARD-SPACER	NYLON66	(MI) 4
CP549D024A10	CARD-SPACER	NYLON66	(MI) 4
CP549D024A10	CARD-SPACER	NYLON66	(MI) 7
CP549D024A10	CARD-SPACER	NYLON66	(MI) 4
CP553D004A10	SPACER	TFW9105K	(MI) 1
CP553D004A10	BUSH	ABS	1
CP554D004A10	SPACER	THN9105K	(MI) 2
CP554D004A20	SPACER	THN9105K	(MI) 1
CP554D004A20	SPACER	THN9105K	(MI) 1
CP554D004A20	SPACER	THN9105K	(MI) 5
CP554D004A20	SPACER	THN9105K	(MI) 7
CP554D004A20	SPACER	THN9105K	(MI) 5
CP554D004A30	SPACER	TFW9105K	(MI) 2
CP554D004A30	SPACER	TFW9105K	(MI) 2
CP570D017A40	SPRING-D66R	SUS304WPB 7741.0	1
CP570D023A10	SPRING	MX96-HM T=0.2	1
CP570D024A10	SPRING	MX96-HM T=0.2	6
CP570D024A10	SPRING	MX96-HM T=0.2	6
CP570D024A10	SPRING	MX96-HM T=0.2	1
CP570D025A10	SPRING	MX96-HM T=0.2	1
CP570D025A10	SPRING	MX96-HM T=0.2	1
CP570D025A10	SPRING	MX96-HM T=0.2	1
CP580A041A10	SHIELD-BOTTOM	SECC-C20/20 T=1.0	1
CP580A042A10	SHIELD-POWER	A1100P-H24 T=1.0	1
CP580A043A10	SHIELD-TOP	A1100P-H24 T=0.5	1
CP580A044A10	CASE-VIDEO	A1100P-H24 T=2.0	1
CP590B066A10	RADIATOR-H	A6063S-T5	1
CP590B066A10	RADIATOR-H	A6063S-T5	1
CP590B068A10	RADIATOR-FIN-TR	A6063S-T5	1
CP590C064A10	RADIATOR-FIN	AL	1
CP590C075B10	RADIATOR-FIN	A6063S-T5	1
CP590C114A10	RADIATOR-HV	A1100P-H24 T2.0	1
CP590C115A10	RADIATOR-HB	A6063S-T5	1
CP590C120A10	RADIATOR-H	A6063S-T5	1
CP590D037A20	RADIATOR-TR	C1100-1/4H T1.0	4
CP590D037A20	RADIATOR-TR	C1100-1/4H T1.0	7
CP590D042A70	RADIATOR-TR	C1100-1/4H T1.0	1
CP590D068A20	RADIATOR-TR	C1100-1/4H T1.0	1
CP590D080A10	RADIATOR-TR	A6063S-T5	1
CP590D084A10	RADIATOR-VIDEO	A6063S-T5	1
CP590D084A10	RADIATOR-VIDEO	A6063S-T5	1
CP593A076C10	FRAME-CRT	THN9105K	1
CP593A094A10	FRAME-BASE	SECC-C20/20 T=1.0	1
CP593A095A10	REAR-PLATE	SECC-C20/20 T=1.0	1
CP593B103A10	SUPPORT-CONNECT	TERNE-SHEET T1.0	1
CP593C152A10	HOLDER-SIDE	SECC-10/10 T1.0	1
CP593D116B10	HOLDER-TR	SUS301 CSP-H T0.5	1
CP593D159A10	SUPPORT-R	SECC-C20/20 T=1.0	1
CP593D172A10	SUPPORT-R	SECC-C20/20 T=1.2	1
CP596C035A10	BRACKET-FBT	SECC-C20/20 T=0.8	1
CP623A011A10	FRAME-SIDE-R	SECC-C20/20 T=0.8	1
CP641A010A20	HOLDER-CRT	ABS	1

NO. PART NO. DESCRIPTION / SPECIFICATION QTY

機種コード = 2A-19W4- - - 機種名 TFW9105K

部材	子部品コード	品名	仕様規格1	規格2	材料	数量	LOT NO.
	CP641C001E10	PWB-HOLDER	ABS-VW10		MI	2	10-99
	CP641C021A10	DHHS-CAP	POLYCARBONATE	FB22AP1	(MI)	1	10-99
	CP641C041A10	LEVER-POWER	ABS	THN9105K	(MI)	1	10-99
	CP650D002A10	SCREW-SEMS	M3X0.5-16			1	10-99
	CP669C001A10	SCREW-SEMS-HEX	4X8 46LA005			1	10-99
	CP669C002A20	SCREW-TB-SEMS	4X20 46LA005			4	10-99
	CP669C008A10	SCREW-TB-SEMS	3X8 46LA005			13	10-99
	CP669C008A10	SCREW-TB-SEMS	3X8 46LA005			24	10-99
	CP669C008A10	SCREW-TB-SEMS	3X8 46LA005			1	10-99
	CP669C008A10	SCREW-TB-SEMS	3X8 46LA005			5	10-99
	CP669C008A10	SCREW-TB-SEMS	3X8 46LA005			4	10-99
	CP669C008A10	SCREW-TB-SEMS	3X8 46LA005			2	10-99
	CP669C008A20	SCREW-TB-SEMS	3X10 46LA005			2	10-69
	CP669C008A30	SCREW-TB-SEMS	3X8	HL69HP-N		2	10-99
	CP669D016A20	SCREW-TB-BIND-W	3X8 26AA005+BLACK			2	10-99
	CP669D016A20	SCREW-TB-BIND-W	3X8 26AA005+BLACK			7	10-19
	CP669D016A20	SCREW-TB-BIND-W	3X8 26AA005+BLACK			4	20-99
	CP669D016A20	SCREW-TB-BIND-W	3X8 26AA005+BLACK			2	10-99
	CP669D030A60	SCREW-TB-NI	4X16 22AA005			6	10-99
	CP669D033A10	SCREW-TB-SOLDER	3X8 SOLDER	3X8		3	20-99
	CP669D040A10	SCREW-TB-SEMS	3X8			5	10-99
	CP669D041A10	SCREW-HEX	JFS-45-B1W			2	10-99
	CP669D059A10	SCREW-SEMS	M2.6X0.45-6 46LA005			1	60-99
	CP669D052A20	SCREW-SEMS	M3X0.5-10			6	10-99
	CP669D052A20	SCREW-SEMS	M3X0.5-10			1	10-99
	CP669D052A20	SCREW-SEMS	M3X0.5-10			8	10-99
	CP669D052A20	SCREW-SEMS	M3X0.5-10			2	10-99
	CP670C001A10	S6LN-NUT	M6	TH28105S		4	10-99
	CP677D001A10	EYELET	BSR TO.2			8	10-99
	CP677D001A20	EYELET	BSR T O.18			35	10-99
	CP677D001A20	EYELET	BSR T O.18			42	10-99
	CP677D001A20	EYELET	BSR T O.18			48	20-99
	CP802C152A10	PACKING-SHEET	THN9105K			1	10-99
	CP803A058A10	CUSHION	FGAMED-P.S	THN9105K		1	10-99
	CP831C001A30	PACKING-BAG	POLYETHYLENE TO.035			1	10-99
	CP850C224A10	LABEL-WARNING	WHITE-PAPER 70KG			1	10-99
	CP850D167A20	LABEL	WHITE-PAPER 70KG			1	10-99
AA001	CP980B200A10	SCHEMATIC-DIAGR				1	10-99
AA001	CP980B202A10	SCHEMATIC-DIAGR				1	10-99
AA001	CP980B202A10	SCHEMATIC-DIAGR				1	10-99
	CP980B227A10	BLOCK-DIAGRAM				1	10-99
	CP980B227A10	BLOCK-DIAGRAM				1	10-99
	CP980B227A10	BLOCK-DIAGRAM				1	10-99
	CP980B227A10	BLOCK-DIAGRAM				1	10-99
	CP980B227A10	BLOCK-DIAGRAM				1	10-99
	CT900A202-10A	ASSY-COLOR-DISP				1	10-99
	CT900A203-10A	ASSY-CHASSIS-SE				1	10-99
	CT900A204-10A	ASSY-BEZEL				1	10-99
	CT920A200-10A1	ASSY-PWB-MAIN				1	10-99
	CT920A200-10A9	ASSY-PWB-MAIN				1	10-99

DESCRIPTION / SPECIFICATION

PART NO.

NO.

QTY

LOT NO.

機種コード = 2A-19W4- - - 機種 TFW9105K

品名	仕様規格 1	規格 2	材料 兼 説明 致
子部品コード	品名	仕様規格 1	規格 2
QX081X319B70	SILICONE-GUM	KE40RTV 150G/g 2-L1	40-40
QX081X319B70	SILICONE-GUM	KE40RTV 150G/g 2-L1	50-50
QX081X319B70	SILICONE-GUM	KE40RTV 150G/g 2-L1	30-99
QX096Z466A90	CARTON-TAPE	75X500M	10-99
QX096Z466A90	CARTON-TAPE	75X500M	10-99
R 6E1	R-CARBON	1/2W 100-K	10-99
R 3B2	R-CARBON	1/2W 68-J	10-99
R 3G2	R-CARBON	1/2W 68-J	10-99
R 3R2	R-CARBON	1/2W 68-J	10-99
R 9A1	R-CARBON	1/2W 120-J	10-50
R 9A1	R-CARBON	1/2W 120-J	51-99
R 9A1	R-CARBON	1/2W 120-J	10-99
R 982	R-CARBON	1/2W 220-J	10-99
R 993	R-CARBON	1/2W 220-J	10-99
R 970	R-CARBON	1/2W 220-J	10-99
R 993	R-CARBON	1/2W 220-J	10-99
R 403	R-CARBON	1/2W 270-J	10-19
R 403	R-CARBON	1/2W 270-J	21-29
R 403	R-CARBON	1/2W 270-J	31-39
R 403	R-CARBON	1/2W 330-J	41-49
R 403	R-CARBON	1/2W 330-J	20-20
R 403	R-CARBON	1/2W 330-J	30-30
R 403	R-CARBON	1/2W 330-J	40-40
R 6E2	R-CARBON	1/2W 3.3K-J	50-99
R 6F0	R-CARBON	1/2W 4.7K-J 472 RD-H	10-99
R 526	R-CARBON	1/2W 47K-J 473 RD-H	10-99
R 529	R-CARBON	1/2W 47K-J 473 RD-H	10-99
R 532	R-CARBON	1/2W 47K-J 473 RD-H	10-99
R 535	R-CARBON	1/2W 47K-J 473 RD-H	10-99
R 538	R-CARBON	1/2W 47K-J 473 RD-H	10-99
R 541	R-CARBON	1/2W 47K-J 473 RD-H	10-99
R 919	R-CARBON	1/2W 56K-J	10-99
R 920	R-CARBON	1/2W 56K-J	10-99
R 548	R-CARBON	1/2W 100K-J	10-99
R 931	R-CARBON	1/2W 100K-J	10-99
R 932	R-CARBON	1/2W 100K-J	10-99
R 6G1	R-CARBON	1/2W 120K-J	10-19
R 6G2	R-CARBON	1/2W 120K-J	10-19
R 6G3	R-CARBON	1/2W 150K-J	10-19
R 6G1	R-CARBON	1/2W 180K-J 184RD-H	20-99
R 6G2	R-CARBON	1/2W 180K-J 184RD-H	20-99
R 6G3	R-CARBON	1/2W 180K-J 184RD-H	20-99
R 926	R-CARBON	1/2W 180K-J 184RD-H	10-99
R 927	R-CARBON	1/2W 180K-J 184RD-H	10-99
R 6F4	R-CARBON	1/2W 220K-J	10-99
R 6F5	R-CARBON	1/2W 220K-J	10-99
R 6F6	R-CARBON	1/2W 220K-J	10-99
R 6B4	R-CARBON	1/2W 330K-J	10-19
R 6A9	R-CARBON	1/2W 560K-J	10-19
R 6B1	R-CARBON	1/2W 560K-J	10-19
R 6B2	R-CARBON	1/2W 560K-J	10-19
R 6B3	R-CARBON	1/2W 560K-J	10-19

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

LOT NO.

NO. 2A-19W4- TFW9105K

品名	仕様規格 1	仕様規格 2	材料 数
R 584 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 584 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 586 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 586 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 793 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 793 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 794 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 794 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 794 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 794 QX103P148B41	1/2W 2.2-J	2R2 RD-H	1
R 942 QX103P370A11	1/4W 10-J	100 RNF-	1
R 6E9 QX103P392A51	1/2W 1.0K-J	102 RNF-	1
R 588 QX103P393A71	1/2W 10K-J		1
R 550 QX103P397A21	1/2W 0.22-J		1
R 502 QX103P410B11	1/4W 10-J	100 RD-H	1
R 508 QX103P410B11	1/4W 10-J	100 RD-H	1
R 543 QX103P410B11	1/4W 10-J	100 RD-H	1
R 549 QX103P410B11	1/4W 10-J	100 RD-H	1
R 6F9 QX103P410B11	1/4W 10-J	100 RD-H	1
R 915 QX103P410B11	1/4W 10-J	100 RD-H	1
R 915 QX103P410B11	1/4W 10-J	100 RD-H	1
R 915 QX103P410B11	1/4W 10-J	100 RD-H	1
R 935 QX103P410B61	1/4W 27-J	270 RD-H	1
R 400 QX103P410B91	1/4W 47-J	470 RD-H	1
R 506 QX103P411B01	1/4W 56-J	560 RD-H	1
R 543 QX103P411B31	1/4W 100-J	101 RD-H	1
R 5F1 QX103P411B31	1/4W 100-J	101 RD-H	1
R 5F5 QX103P411B31	1/4W 100-J	101 RD-H	1
R 5F7 QX103P411B31	1/4W 100-J	101 RD-H	1
R 516 QX103P411B31	1/4W 100-J	101 RD-H	1
R 518 QX103P411B31	1/4W 100-J	101 RD-H	1
R 525 QX103P411B31	1/4W 100-J	101 RD-H	1
R 528 QX103P411B31	1/4W 100-J	101 RD-H	1
R 531 QX103P411B31	1/4W 100-J	101 RD-H	1
R 534 QX103P411B31	1/4W 100-J	101 RD-H	1
R 537 QX103P411B31	1/4W 100-J	101 RD-H	1
R 540 QX103P411B31	1/4W 100-J	101 RD-H	1
R 400 QX103P411B51	1/4W 100-J	101 RD-H	1
R 989 QX103P411B51	1/4W 150-J	151 RD-H	1
R 5A8 QX103P411B71	1/4W 220-J	221 RD-H	1
R 503 QX103P411B71	1/4W 220-J	221 RD-H	1
R 6F1 QX103P411B71	1/4W 220-J	221 RD-H	1
R 6G6 QX103P411B91	1/4W 330-J	331 RD-H	1
R 936 QX103P412B01	1/4W 390-J	391 RD-H	1
R 443 QX103P412B11	1/4W 470-J	471 RD-H	1
R 443 QX103P412B11	1/4W 470-J	471 RD-H	1
R 443 QX103P412B11	1/4W 470-J	471 RD-H	1
R 443 QX103P412B11	1/4W 470-J	471 RD-H	1
R 6A4 QX103P412B21	1/4W 560-J	561 RD-H	1
R 903 QX103P412B21	1/4W 560-J	561 RD-H	1
R 937 QX103P412B21	1/4W 560-J	561 RD-H	1
R 5A4 QX103P412B51	1/4W 1K-J	102 RD-H	1
R 5A5 QX103P412B51	1/4W 1K-J	102 RD-H	1

機種コード = 2A-19W4- - 機種名 = TFW9105K

品名	仕様規格 1	規格 2	材料 集
品名	仕様規格 1	規格 2	材料 集
R 5F6 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 554 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 904 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 921 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 958 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 981 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 985 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 992 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 990 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 971 QX103P412B51	1/4W 1K-J	102 RD-H	10-99
R 912 QX103P412B71	1/4W 1.5K-J	152 RD-H	20-20
R 912 QX103P412B71	1/4W 1.5K-J	152 RD-H	30-30
R 912 QX103P412B71	1/4W 1.5K-J	152 RD-H	40-40
R 912 QX103P412B71	1/4W 1.5K-J	152 RD-H	50-99
R 6A1 QX103P412B71	1/4W 1.8K-J	182 RD-H	10-19
R 443 QX103P412B81	1/4W 1.8K-J	182 RD-H	20-20
R 443 QX103P412B81	1/4W 1.8K-J	182 RD-H	30-30
R 443 QX103P412B81	1/4W 1.8K-J	182 RD-H	40-40
R 443 QX103P412B81	1/4W 1.8K-J	182 RD-H	50-99
R 5A6 QX103P412B91	1/4W 2.2K-J	222 RD-H	10-99
R 956 QX103P413B01	1/4W 2.7K-J	272 RD-H	10-99
R 607 QX103P413B11	1/4W 3.3K-J	332 RD-H	10-99
R 988 QX103P413B11	1/4W 3.3K-J	332 RD-H	10-99
R 5F3 QX103P413B21	1/4W 3.9K-J	392 RD-H	20-99
R 501 QX103P413B21	1/4W 3.9K-J	392 RD-H	10-19
R 553 QX103P413B31	1/4W 4.7K-J	472 RD-H	10-99
R 6A2 QX103P413B51	1/4W 6.8K-J	682 RD-H	10-19
R 618 QX103P413B61	1/4W 8.2K-J	822 RD-H	10-99
R 399 QX103P413B71	1/4W 10K-J	103 RD-H	20-99
R 5B1 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 5F3 QX103P413B71	1/4W 10K-J	103 RD-H	10-19
R 501 QX103P413B71	1/4W 10K-J	103 RD-H	20-99
R 507 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 520 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 522 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 524 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 527 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 530 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 533 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 536 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 539 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 542 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 6A5 QX103P413B71	1/4W 10K-J	103 RD-H	10-19
R 6G4 QX103P413B71	1/4W 10K-J	103 RD-H	20-99
R 6G7 QX103P413B71	1/4W 10K-J	103 RD-H	10-19
R 606 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 914 QX103P413B71	1/4W 10K-J	103 RD-H	10-99
R 910 QX103P414B11	1/4W 22K-J	223 RD-H	10-99
R 521 QX103P414B51	1/4W 47K-J	473 RD-H	10-99
R 523 QX103P414B51	1/4W 47K-J	473 RD-H	10-99

QTY

LOT NO.

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機價名 = TFW9105K

單元	子部品コード	品名	仕様規格1	規格2	材料	証明	数量
R 6A6	QX103P414871	R-CARBON	1/4W 68K-J	683 RD-H			1
R 946	QX103P414881	R-CARBON	1/4W 82K-J	823 RD-H			1
R 312	QX103P414881	R-CARBON	1/4W 82K-J	823 RD-H			1
R 316	QX103P414881	R-CARBON	1/4W 82K-J	823 RD-H			1
R 320	QX103P414881	R-CARBON	1/4W 82K-J	823 RD-H			1
	QX103P414891	R-CARBON	1/4W 100K-J	104 RD-H			1
R 5B3	QX103P415831	R-CARBON	1/4W 220K-J	224 RD-H			1
R 309	QX103P415831	R-CARBON	1/4W 220K-J	224 RD-H			1
R 310	QX103P415831	R-CARBON	1/4W 220K-J	224 RD-H			1
R 311	QX103P415831	R-CARBON	1/4W 220K-J	224 RD-H			1
R 5B5	QX103P415851	R-CARBON	1/4W 330K-J	334 RD-H			1
R 517	QX103P415871	R-CARBON	1/4W 470K-J	474 RD-H			1
R 519	QX103P415871	R-CARBON	1/4W 470K-J	474 RD-H			1
R 6A0	QX103P416801	R-CARBON	1/4W 820K-J	824RD-H			1
R 6G5	QX103P416801	R-CARBON	1/4W 820K-J	824RD-H			1
R 933	QX103P416811	R-CARBON	1/4W 1M-J	105 RD-H			1
R 934	QX103P416811	R-CARBON	1/4W 1M-J	105 RD-H			1
R 6G0	QX103P418861	R-CARBON	1/4W 3.3-J	3R3 RD-H			1
R 915	QX103P418871	R-CARBON	1/4W 3.9-J	3R9 RD-H			1
R 915	QX103P418871	R-CARBON	1/4W 3.9-J	3R9 RD-H			1
R 915	QX103P418871	R-CARBON	1/4W 3.9-J	3R9 RD-H			1
R 915	QX103P418871	R-CARBON	1/4W 3.9-J	3R9 RD-H			1
R 911	QX103P418881	R-CARBON	1/4W 4.7-J	4R7 RD-H			1
R 941	QX103P418881	R-CARBON	1/4W 4.7-J	4R7 RD-H			1
R 392	QX103P419851	R-CARBON	1/4W 06HM				1
R 605	QX109P052A41	R-FUSE	1/4W 1.2-J	1R2 RNF-			1
SW100	QX129P007B30	VR-CHANNEL-PLCS	BAND-SW	1-2 (MI)			1
C 5F1	QX142P011B31	C-CERAMIC	B500V 1000P-K	102 S8			1
C 514	QX142P011B31	C-CERAMIC	B500V 1000P-K	102 S8			1
C 515	QX142P011B31	C-CERAMIC	B500V 1000P-K	102 S8			1
C 5F2	QX142P012B50	C-CERAMIC	B500V 0.01M-K	103 S8			1
C 6R5	QX142P020B51	C-CERAMIC	B50V 470P-K	471 S8			1
C 6R6	QX142P020B51	C-CERAMIC	B50V 470P-K	471 S8			1
C 527	QX142P020B91	C-CERAMIC	B50V 1000P-K	102 S8			1
C 528	QX142P020B91	C-CERAMIC	B50V 1000P-K	102 S8			1
C 529	QX142P020B91	C-CERAMIC	B50V 1000P-K	102 S8			1
C 530	QX142P020B91	C-CERAMIC	B50V 1000P-K	102 S8			1
C 531	QX142P020B91	C-CERAMIC	B50V 1000P-K	102 S8			1
C 532	QX142P020B91	C-CERAMIC	B50V 1000P-K	102 S8			1
C 516	QX142P021B31	C-CERAMIC	B850V 2200P-K	102 S8			1
C 517	QX142P021B31	C-CERAMIC	B850V 2200P-K	102 S8			1
C 970	QX142P021B51	C-CERAMIC	B50V 3300P-K	332 S8			1
C 743	QX142P021B71	C-CERAMIC	B50V 4700P-K	472 S8			1
C 746	QX142P021B71	C-CERAMIC	B50V 4700P-K	472 S8			1
C 391	QX142P021B71	C-CERAMIC	B50V 4700P-K	472 S8			1
C 5F3	QX155P112A51	C-CERAMIC	SL500V 39P-J	390 L8			1
C 5F4	QX155P112A51	C-CERAMIC	SL500V 39P-J	390 L8			1
C 5F1	QX155P113A31	C-CERAMIC	SL500V 82P-J	820 L8			1
C 308	QX155P117A31	C-CERAMIC	SL500V 180P-J	181 L8			1
C 309	QX155P117A31	C-CERAMIC	SL500V 180P-J	181 L8			1
C 310	QX155P117A31	C-CERAMIC	SL500V 180P-J	181 L8			1
C 403	QX155P311B21	C-CERAMIC	SL50V 10P-D				1

NO.	PART NO.	DESCRIPTION / SPECIFICATION	QTY
機種コード = 2A-19W4- - - 機種名 - TFW9105K			
諸元	子部品コード	品名	仕様規格1 規格2 材料 証明 数
C 442	QX155P311B21	C-CERAMIC	SL50V 10P-D 560 S8
C 6A4	QX155P313B01	C-CERAMIC	SL50V 56P-J 101 S8
C 1A1	QX155P313B61	C-CERAMIC	SL50V 100P-J 101 S8
C 1A1	QX155P313B61	C-CERAMIC	SL50V 100P-J 101 S8
C 1A1	QX155P313B61	C-CERAMIC	SL50V 100P-J 101 S8
C 1A1	QX155P313B61	C-CERAMIC	SL50V 100P-J 101 S8
C 5F3	QX155P315B21	C-CERAMIC	SL50V 470P-J 3R3 S8
C 422	QX189D028C81	C-TANTALUM	25V 3.3M-K 472S8
C 903	QX189D027B71	C-CERAMIC-AC	F VA1 4700P-M 472S8
C 904	QX189D027B71	C-CERAMIC-AC	F VA1 4700P-M 472S8
C 917	QX189D027B71	C-CERAMIC-AC	F VA1 4700P-M 472S8
C 918	QX189D027B71	C-CERAMIC-AC	F VA1 4700P-M 472S8
C 945	QX189D027B71	C-CERAMIC-AC	F VA1 4700P-M 472S8
C 946	QX189D027B71	C-CERAMIC-AC	F VA1 4700P-M 472S8
C 905	QX189D067C31	C-CERAMIC-AC	F VA1 3300P-M 332 L8
C 906	QX189D067C31	C-CERAMIC-AC	F VA1 3300P-M 332 L8
Q 224D	197A10	BUSH	
Q 224D	197A10	BUSH	
Q 224D	197A10	BUSH	
Q 902	QX260C416A31	TRANSISTOR	2SC2274-F FORMING
Q 506	QX260P422A11	TRANSISTOR	2SC2482
Q 507	QX260P422A11	TRANSISTOR	2SC2482
Q 5A1	QX260P425A40	TRANSISTOR	2SC2688-M,N
D 5P1	QX264P045A81	DIODE	1S2076A/1S2471
D 5A1	QX264P045A81	DIODE	1S2076A/1S2471
D 5F2	QX264P045A81	DIODE	1S2076A/1S2471
D 6A1	QX264P045A81	DIODE	1S2076A/1S2471
D 6A2	QX264P045A81	DIODE	1S2076A/1S2471
D 6E4	QX264P045A81	DIODE	1S2076A/1S2471
D 6E5	QX264P045A81	DIODE	1S2076A/1S2471
D 6E6	QX264P045A81	DIODE	1S2076A/1S2471
D 906	QX264P045A81	DIODE	1S2076A/1S2471
D 5F3	QX264P367A11	DIODE	1S2076A/1S2471
D 5F4	QX264P367A11	DIODE	1S583
	QX330H509Z91	S8-COPPER-WIRE	O3ON001 O.6
	QX330H509Z91	S8-COPPER-WIRE	O3ON001 O.6
	QX330H509Z91	S8-COPPER-WIRE	O3ON001 O.6
	QX330H509Z91	S8-COPPER-WIRE	O3ON001 O.6
	QX330H509Z91	S8-COPPER-WIRE	O3ON001 O.6
	QX330H509Z91	S8-COPPER-WIRE	O3ON001 O.6
	QX330H509Z91	S8-COPPER-WIRE	O3ON001 O.6
	QX452D109A10	CONNECTOR	B9(10)B-XH-A
	QX452D109A10	CONNECTOR	B9(10)B-XH-A
	QX452D109A20	CONNECTOR	B2B-XH-AM
	QX452D109A20	CONNECTOR	B2B-XH-AM
	QX452D109A20	CONNECTOR	B2B-XH-AM
	QX452D109A20	CONNECTOR	B2B-XH-AM
	QX452D109A30	CONNECTOR	B3B-XH-AM
	QX452D109A30	CONNECTOR	B3B-XH-AM
	QX452D109A30	CONNECTOR	B3B-XH-AM
	QX452D109A30	CONNECTOR	B3B-XH-AM
	QX452D109A30	CONNECTOR	B3B-XH-AM
	QX452D109A30	CONNECTOR	B3B-XH-AM
	QX452D109A30	CONNECTOR	B3B-XH-AM

ALL PARTS LIST

SYMBOL

PART NO.

DESCRIPTION / SPECIFICATION

QTY

NO.

LOT NO.

機種コード = 2A-19W4 - - 機種名 = TFW9105K

諸元	子部品コード	品名	仕様規格 1	規格 2	材料	数量
J 503	QX452D109A40	CONNECTOR	B4B-XH-AM			1
J 502	QX452D109A90	CONNECTOR	B8(9)B-XH-A			1
J 5P1	QX452D130A20	CONNECTOR-S	2P		(MI)	1
J 508	QX452D130A20	CONNECTOR-S	2P		(MI)	1
J 516	QX452D130A30	CONNECTOR-S	3P		(MI)	1
J 507	QX452D130A60	CONNECTOR-S	6P		(MI)	1
J 1F1	QX452D130A60	CONNECTOR-S	6P		(MI)	1
	QX540D036B10	LEAD-CLAMPER	*		(MI)	2
	QX540D036B10	LEAD-CLAMPER	*		(MI)	1
	QX540D085B10	LEAD-CLAMPER	NYLON-6 CM1017		(MI)	1
	QX540D085B10	LEAD-CLAMPER	NYLON-6 CM1017		(MI)	2
	QX540D085B10	LEAD-CLAMPER	NYLON-6 CM1017		(MI)	2
	QX540D085B10	LEAD-CLAMPER	NYLON-6 CM1017		(MI)	1
	QX540D085B10	LEAD-CLAMPER	NYLON-6 CM1017		(MI)	2
	QX540D085B10	LEAD-CLAMPER	NYLON-6 CM1017		(MI)	1
	QX540D085B10	LEAD-CLAMPER	NYLON-6 CM1017		(MI)	2
	QX540D085B10	LEAD-CLAMPER	NYLON-6 CM1017		(MI)	1
	QX669D171A30	SCREW-SEMS	M3X0.5-12			1
	QX669D171A30	SCREW-SEMS	M3X0.5-12			1
	QX669D220A10	SCREW-TB	3X6 46LA005			10
	QX669D220A20	SCREW-TB	* 3X8			4
	QX669D220A20	SCREW-TB	* 3X8			5
	QX669D220A20	SCREW-TB	* 3X8			4
	QX669D220A20	SCREW-TB	* 3X8			5
	QX669D220A40	SCREW-TB	3X12 46LA005			7
	QX669D220A40	SCREW-TB	3X12 46LA005			2
	QX669D220A60	SCREW-TB	3X16 46LA005			1
	QX669D220A70	SCREW-TB	3X20 46LA005			1
	QX669D221A40	SCREW-TB				1
	QX669D221A40	SCREW-TB				1
R 901	RX101P224D31	R-COMP	RC 1/2GF 220K-J			1
C 507	RX172P081B80	C-PLASTIC-PP	200V O.033M-J			1
C 507	RX172P081B80	C-PLASTIC-PP	200V O.033M-J			1
IC5A3	RX277P650A10	IC	TL431CLPB			1
IC603	RX277P650A10	IC	TL431CLPB			1
IC951	RX277P650A10	IC	TL431CLPB			1
IC982	RX277P650A10	IC	TL431CLPB			1
J 512	RX452D549A30	PIN-ASSY	TS-80P-03-VI			1
	RX537D512A20	CORD-KEEP	K-104GS			1
	RX539D632A10	SPACER	66NYLON			2
	RX539D647A10	BUSH				2
	RX669D171A20	SCREW-SEMS-W	M3X0.5-8			5
	RX669D171A30	SCREW-SEMS	M3X0.5-12			1