

Model S-3000W/S-3000
Color Camera
Service Manuals

S-3000W : PAL 16:9/4:3
S-3000 : PAL 4:3

Hitachi Kokusai Electric Inc.

SERVICE SAFETY PRECAUTIONS


X RADIATION

The primary source of X-ray radiation in this camera/viewfinder is the picture tube. The tube used in this viewfinder is especially constructed to limit X-ray radiation emission. For continued X-ray radiation protection, the replacement tube must be the same type as the original, the source approved one.

PRODUCT SAFETY NOTICE

Many parts in this apparatus have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by

them necessarily be obtained by using replacement components rated for higher voltage, etc.

Electrical components having such features are identified by an exclamation point within an equilateral triangle() on the schematic diagram, parts list and exploded view in this service manual. The use of replacement substitute component which does not have the same safety characteristics as the source recommended replacement one, shown in the parts list in this service manual, may create shock, fire, or other hazards.

REPLACE WITH CONFORM TYPES ONLY!

NOTICE:

Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

1. When replacing a module in the apparatus, all the protective devices must be put back in place, such as barriers, non-metallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
2. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
3. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacturer's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
4. Before returning an instrument to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the apparatus by the manufacturer has become defective, or inadvertently defective during servicing.

Therefore, the following checks should be performed for the continued protection of the customer and service technician.

GROUNDING CONTINUITY TEST

- 1 Remove mains plug from wall outlet.
- 2 With an ohm-meter in its highest resistance range, measure resistance between the grounding prong of the mains plug and all accessible conductive parts.
THE METER MUST READ ZERO OHM.
- 3 The mains plug still being removed from the wall outlet, switch on the instrument.
- 4 With an ohm-meter in its highest resistance range, measure resistance between the grounding prong of the mains plug and the two other prongs of the mains plug.

BOTH METER READINGS MUST BE MORE THAN 5 MEGA-OHM.

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE THE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND CORRECTIVE ACTION MUST BE TAKEN BEFORE RETURNING THE APPARATUS TO THE CUSTOMER.

CAUTION: HIGH VACUUM PICTURE TUBE IS DANGEROUS TO HANDLE. REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL.

EMPLOYS X RADIATION AND INTEGRAL IMPLOSION PROTECTION. REPLACE WITH A TUBE OF THE SAME TYPE NO. AND SUFFIX FOR CONTINUED SAFETY.

X RADIATION WARNING

REPLACEMENT OF CRITICAL COMPONENTS OF THIS APPARATUS (PICTURE TUBE AND OTHERS) CAN RESULT IN EXCESSIVE X RADIATION, THESE COMPONENTS ARE MARKED THE SERVICE MANUAL BY A \triangle SIGN.

-REPLACE ONLY WITH CONFORM TYPES
-SEE SERVICE MANUAL FOR HIGH VOLTAGE ADJUSTMENT INSTRUCTIONS.

CAUTION: TO DETERMINE THE PRESENCE OF HIGH VOLTAGE, KINE HIGH VOLTAGE MUST BE DISCHARGED TO CHASSIS.

FUSE REPLACEMENT

For continued protection against fire hazard,

-Replace with the same type of use.

-Refer replacement to qualified service personal.

NOTICE

This Service Manual describes the most typical product of this model. If there are any specific differences between this Manual and the servicing unit, please contact Hitachi Denshi sales office in your area.

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SPECIFICATIONS

1. SPECIFICATIONS

1. Major specifications

- 1) Color system NTSC , PAL
- 2) Optical system 2/3-inch F1.4 prism
- 3) Pickup system 3-CCD (R, G and B)
- 4) Pickup elements
2/3-inch equivalent interline transfer CCD (with on-chip micro-lenses)

Total pixels	1290 (H) × 496(V) :640 k pixels [NTSC 16:9/4:3]
	811 (H) × 508(V) :410 k pixels [NTSC 4:3]
	1008 (H) × 591(V) :600 k pixels [PAL 16:9/4:3]
	1038 (H) × 594(V) :620 k pixels [PAL 4:3]
Effective pixels	1216 (H) × 492(V) :600 k pixels [NTSC 16:9/4:3]
	768 (H) × 494(V) :380 k pixels [NTSC 4:3]
	936 (H) × 575(V) :540 k pixels [PAL 16:9/4:3]
	980 (H) × 582(V) :570 k pixels [PAL 4:3]
- 5) Encoder system R-Y/B-Y(NTSC) , U/V(PAL)
- 6) Sync system Internal or genlock
- 7) Horizontal resolution

800 TV lines (center, DTL off, Y-OUT) [NTSC 16:9/4:3]
850 TV lines (center, DTL off, Y-OUT) [NTSC 4:3]
750 TV lines (center, DTL off, Y-OUT) [PAL 16:9/4:3]
900 TV lines (center, DTL off, Y-OUT) [PAL 4:3]
- 8) Signal to noise ratio

63 dB typ/65 dB (DNR on) [NTSC]
61 dB typ/63 dB (DNR on) [PAL]
($\gamma = 1$, DTL off, sensitivity 0 dB, Y-OUT)
- 9) Standard sensitivity 2000 lx, F11
- 10) Minimum illumination

0.5 lx, F1.4 (sensitivity +24 dB, ultra gain on)
0.8 lx, F1.8 (sensitivity +24 dB, ultra gain on)
- 11) Gamma correction 0.35 to 1.0 (on/off switchable)
- 12) Frame distortion Overall: 0 % (less lens characteristics)
- 13) Registration Overall: 0.05 % (less lens characteristics)
- 14) Optical filters

3200K, 5600K +1/16 ND, 5600K, EFFECT [NTSC]
3200K, 5600K +1/16 ND, 5600K, 5600K +1/64 ND [PAL]
- 15) Vertical correction 2 H (R, G)
- 16) Lens mount Bayonet (flangeback: 48 mm in air)

- | | | |
|------------------------------|---|--|
| 17) Sensitivity selection | L (low) | 0 /-3 dB |
| | M (medium) | +6,+9/+12 dB |
| | H (high) | +12/+18;+24 dB |
| | Remote control | -3dB to +24 dB (3 dB steps) |
| 18) Detail control functions | Level, frequency, flesh tone,
level dependent, crisp, H/V balance, soft | |
| 19) Scene files | 4
Filed items: Gain setting, detail, masking, gamma,
electronic shutter, auto iris mode, auto knee, contrast | |
| 20) Ultra gain function | Sensitivity is increased about 12dB by changing the CCD
readout position(operates only when higher than +12dB;
some loss of horizontal resolution). | |
| 21) CCD drive functions | | |
| | Preset mode: | 1/60(PAL),1/100(NTSC), 1/250, 1/500, 1/1000, 1/2000 second |
| | Lock scan mode: | 1/61.5 to approx. 1/2000 second (1 H steps) [NTSC 16:9/4:3]
1/60.4 to approx. 1/2000 second (1 H steps) [NTSC 4:3]
1/50.3 to approx. 1/2000 second (1 H steps) [PAL] |
| | Auto-electronic shutter
(AES) mode: | Shutter speed varied in 1H steps to the equivalent of 4 F-stops |
| | CC frame mode: | |
| 22) Power supply | 12 V rated | |
| 23) Power consumption | Approx. 16 W (including GM-9, without camera adaptor) | |
| 24) Dimensions | 125 (W) × 268 (H) × 160 (D) mm (less camera adaptor) | |
| 25) Mass | Approx. 3.2 kg (incl. GM-9, less lens and camera adaptor) | |

2. GM-9 1.5-inch viewfinder

- | | |
|-------------------------|---|
| 1) Input signal | VS 1 Vp-p negative sync |
| 2) CRT | 1.5-inch monochrome |
| 3) Resolution | Approx. 600 TV lines (horizontal center) |
| 4) Picture aspect ratio | 16:9 or 4:3 |
| 5) LED indicators | 4 |
| | TALLY: Tally |
| | BATT: Battery warning |
| | SAVE: VTR SAVE |
| | (!) : Warning of non-standard camera status |
| 6) Controls | Bright, peaking, contrast, front tally on/off |
| 7) Power supply voltage | 9 VDC |

- 8) Power consumption Approx. 1.4 W
- 9) Mass Approx. 0.6 kg

3. Inputs, outputs and operating conditions

(Note: Multi-pin connector is via the CA-Z31/Z32.)

3.1 Input signals

- 1) Genlock (multi-pin connector or BNC)
 - VBS 1.0 V_{p-p} ± 3 dB or black burst, 75 Ω
 - (sync 0.3 ± 0.1 V_{p-p}, burst 0.3 ± 0.1 V_{p-p})
- 2) Viewfinder auxiliary input (multi-pin connector)
 - VBS 1.0 V_{p-p} ± 3 dB, 75 Ω

3.2 Output signals

- 1) Video output 1 VBS 1.0 V_{p-p}, 75 Ω
(BNC)
- 2) Video output 2 VBS 1.0 V_{p-p}, 75 Ω
(multi-pin connector)
- 3) Video output 3 (multi-pin connector) *See note
 - (1) RGB RGB: 0.7 V_{p-p}, 75 Ω
 - (2) Component VS : 1.0 V_{p-p}, 75 Ω
R-Y, B-Y: 0.7 V_{p-p}, 75 Ω (NTSC Betacam at 75 % color bar)
0.525 V_{p-p}, 75 Ω (MIL,PAL Betacam at 75 % color bar)
 - (3) Composite output VBS: 1.0 V_{p-p}, 75 Ω
 - (4) Y/C outputs Y: 1.0 V_{p-p}, 75 Ω
C: 0.286 V_{p-p} (burst), 75 Ω
- 4) Monitor output (BNC) VBS: 1.0 V_{p-p}, 75 Ω
- 5) Audio output -20 dBm, 600 Ω / -60 dBu, high impedance *See note
(multi-pin connector)

*Note: Selection one from the function menu.

3.3 Ambient temperature

- 1) Continuous operation -10 to 45 °C
- 2) Storage -20 to 60 °C

3.4 Power supply voltage

12 VDC rated input voltage
Stable operation in range of 10.5 to 17 VDC

4. Main accessories

4.1 Supplied accessories (Select from the following when ordering)

- | | | |
|----|--------------------------------|---------------|
| 1) | 1.5-inch viewfinder | GM-9 |
| 2) | Tripod adaptor | TA-Z3 |
| 3) | Carrying case | CL-Z3 |
| 4) | Either of the following lenses | |
| | 18× zoom (Canon) | YJ18×9BKRS |
| | 19× zoom (Fujinon) | A19×8.7BRM-24 |

4.2 Options

- | | | |
|-----|------------------------------------|-------------------------------|
| 1) | Camera adaptor (for RU-Z2/RU-Z3) | CA-Z32 |
| 2) | 5-inch viewfinder | GM-51 |
| 3) | Viewfinder adaptor (for GM-51) | AT-30 |
| 4) | Camera base station | RU-Z2 |
| 5) | Camera base station(D1out) | RU-Z3 |
| 6) | Camera control panel | RC-Z2A / RC-Z3 |
| 7) | Camera control panel | RC-Z21A (joystick controller) |
| 8) | Camera adaptor (for RU-Z1) | CA-Z31 |
| 9) | Remote operation unit | RU-Z1 |
| 10) | Camera control panel | RC-Z11(joystick controller) |
| 11) | Extention Adaptor | EA-Z3 |
| 12) | RS-232C level converter | JU-C20 |
| 13) | RS-232C level converter | JU-Z2 |
| 14) | AC adaptor | AP-60B |
| 15) | AC adaptor charger | AP-61B |
| 16) | Battery mount (Anton) | QR DP800 |
| 17) | Microphone | MC-Z2 |
| 18) | High grade Microphone | MC-Z3 |
| 19) | Microphone holder | MH-Z3 |
| 20) | Microphone cable (for MC-Z2/ME-66) | C-300MA |
| 21) | Camera cable 15 m (for RU-Z2) | C-152KAB |
| 22) | Camera cable 50 m(for RU-Z2) | C-502KAB |
| 23) | Camera cable 100 m(for RU-Z2) | C-103KAB |
| 24) | Camera cable 15 m (for RU-Z1) | C-152KR |
| 25) | Camera cable 50 m (for RU-Z1) | C-502KR |
| 26) | Camera cable 100 m (for RU-Z1) | C-103KR |
| 27) | VTR cable Betacam spec 2 m | C-201TB(for CA-Z32) |
| 28) | VTR cable Betacam spec 5 m | C-501TB (for CA-Z32) |

29)	VTR cable	Betacam spec	2 m	C-201TE(for CA-Z31)
30)	VTR cable	Betacam spec	5 m	C-501TE(for CA-Z31)
31)	VTR cable	S-VHS spec	3 m	C-301TF(for CA-Z32)
32)	VTR cable	S-VHS spec	2 m	C-201TD(for CA-Z31)
33)	Lens cable kit	(for 18×)		ZL-15WR
34)	Lens cable kit	(for 19)		ZL-7W
35)	Shoulder belt			SB-1 / SB-2
36)	Inner module for Betacam SP/SX(BVV-5/DNV-5)			IM-Z3D
37)	Handle (for IM-Z3D with DNV-5)			HA-Z3D
38)	Inner module for DVCPRO, M2 (AJ-D90, AU-45H)			IM-Z3P
39)	Inner module for DVCAM, Betacam PRO			IM-Z3S
		(DSR-1,PVV-3)		
40)	Inner module for Digital-S, S-VHS(BR-D40 ,BR-S422)			IM-Z3J
41)	TA Bracket (for SONY Tripod adaptor)			TAB-Z3

**OPERATING
INSTRUCTIONS**

Note when using

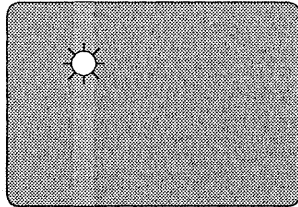
NOTE

*****CCD characteristic phenomena*****

The following types of phenomena are innate characteristics of a charge coupled device (CCD) and are not malfunctions. Be aware of these when using a CCD camera for broadcast or other demanding applications.

Smear

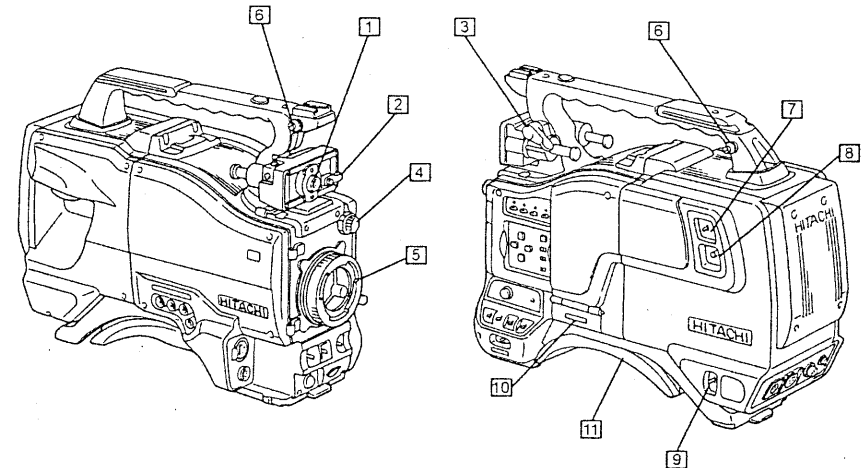
When a bright object is picked up, thin trails appear above and below the image. The effect is more pronounced at high electronic shutter speeds.



Fixed pattern

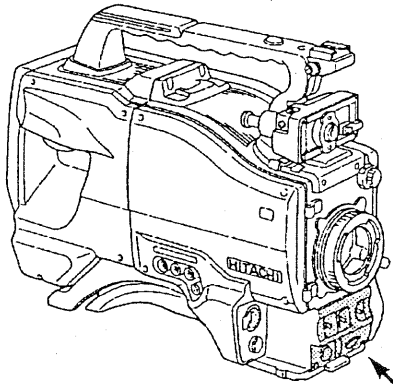
When operate at high temperature, a fixed pattern (vertical stripes, white dots) can appear. The pattern is more easily seen when the camera sensitivity is raised.

Facility names and functions



- 1** Viewfinder connector
Connect the accessory 1.5-inch viewfinder or the separately sold GM-51 5-inch viewfinder.
- 2** Viewfinder horizontal lock lever
Secures the side to side position adjustment of the 1.5-inch viewfinder.
- 3** Viewfinder front to rear lock screw
Secures the front to rear position adjustment of the 1.5-inch viewfinder.
- 4** CC/ND filter select knob
Selects filter to match the light source of the scene.
- 5** Lens mount
Bayonet type lens mount.
- 6** Shoulder belt hook
Attachment for separately sold shoulder belt.
- 7** Talk on/off switch
Intercom microphone on/off when connected into a system with the RU-Z2/RU-Z1.
- 8** Intercom level control
Intercom sound level (volume) adjustment when connected into a system with the RU-Z2/RU-Z1.
- 9** Power select switch
[BATT-CCU/VTR-EXT]
BATT : When power is supplied via the BATT12V IN connector.
CCU/VTR : When power is supplied via the connector for camera base station or VTR.
EXT : When power is supplied via the DC IN connector.
- 10** Setup card slot
Slot for inserting setup card.
- 11** Shoulder pad
Adjustable shoulder pad for comfortable operation. Loosen the 2 screws and adjust the front to rear position.

Facility names and functions



12 Auto white/black balance switch

AWB: Select for automatic white balance adjustment. Set the WHITE BAL switch [20] to A or B to store the adjustment in respective memory A or B.

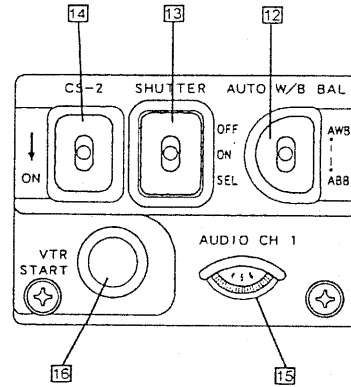
ABB: Select for automatic black balance adjustment. The adjustment is stored in a special memory.

13 Shutter switch

Set to on to use the electronic shutter. At the SEL position, the shutter speed and mode are changed in the range set beforehand at the setting menu.

14 CS-2 switch

On/off switching for function set at menu.



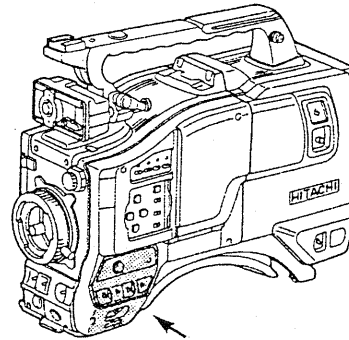
15 Audio channel 1 recording level control

The audio recording level can be adjusted (only) when connected to a Belacam VTR (BVV-1 or BVV-5).

16 VTR start button

When connected to a VTR in the recording mode, press the button once to start recording, press again to stop recording. Functions as Call button when connected to the RU-Z1/RU-Z2.

Facility names and functions



17 Power switch

(VTR STDBY/SAVE, CAM ON/OFF)

Left: (VTR:STDBY, CAM:ON)
Both camera and VTR power on and recording starts.

Center: (VTR:SAVE, CAM:ON)
Camera power on, VTR power save mode

Right: (VTR:SAVE, CAM:OFF)
Camera power off, VTR power save mode.

18 Power LED

Off : Camera power not supplied.
Lights (green): Camera power supplied, but power switch is off.
Lights (red) : Camera power switch on.

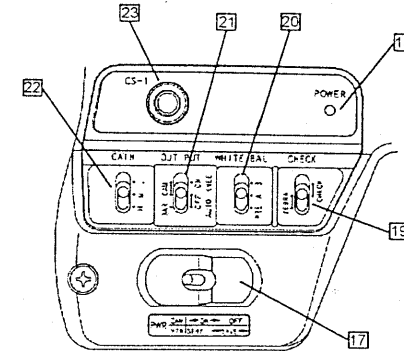
19 Check switch

At the Check setting, the viewfinder indicates the status of the camera operating switches, recording elapsed time, audio level and other information.

The Zebra position provides a zebra signal for checking the video signal level on the viewfinder screen.

20 White balance memory switch

PRE: Set to this position when circumstances such as time do not allow adjusting the white balance.



The white balance is set to the memory value for 3200 K.
A or B: When the AUTO W/B BAL switch [12] is set to AWB, the white balance is adjusted automatically according to the Filter knob [4] setting. The adjustment is stored in the selected memory A or B.

21 Output/Auto Knee switch

BARS: Color bar signal output.

Cam, Auto Knee Off

Pickup signal from camera not produced. Auto knee circuit inoperative.

CAM,AUTO KNEE ON

Pickup signal from camera obtained. Auto knee circuit operates.

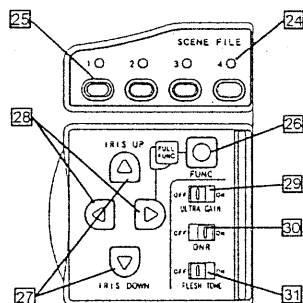
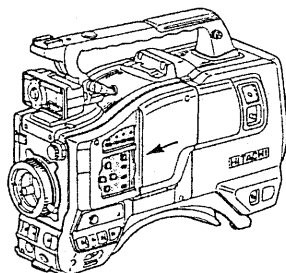
22 Gain switch

Selects video circuit gain according to scene brightness. Low, medium and high are indicated beforehand in the setting menu. The initial settings are L = 0 dB, M = 9 dB, H = 18 dB.

23 CS-1 switch

On/off for function set by menu.

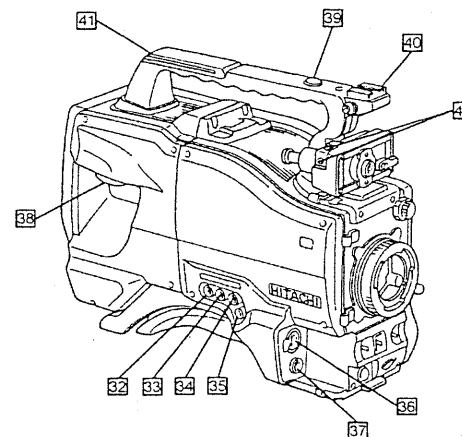
Facility names and functions



- 24** Scene file LEDs
Light to indicate the scene file selected by the Scene File buttons **25**.
- 25** Scene File buttons
Select from among 4 scene files.
- 26** Function button
Used for changing settings (e.g., detail amount).
- 27** Up/down buttons
Change the setting selected by the Function button **26**.
- 28** Left/right buttons
Change the setting selected by the Function button **26**. In the lock scan mode, use for adjusting the shutter speed.

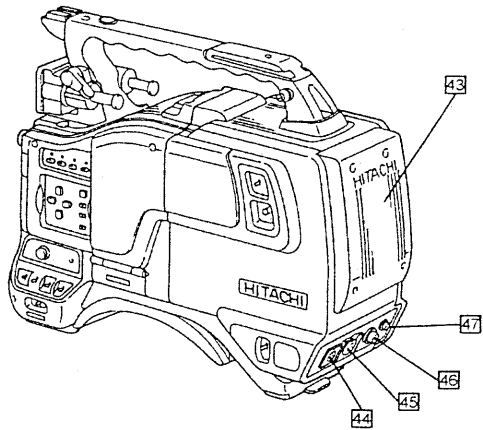
- 29** Ultra gain on/off switch
ON : Increase sensitivity about 12 dB. Operates only when the sensitivity is above +12 dB (some loss of horizontal resolution).
OFF : Normal mode operation.
- 30** Digital noise reduction (DNR) on/off switch
ON : Reduces noise during high gain.
OFF : Normal mode operation.
- 31** Fleshtone on/off switch
ON : Fleshtone detail is moderated. Fleshtone setting is at the DTL sub-menu.
OFF : Normal mode operation.

Facility names and functions



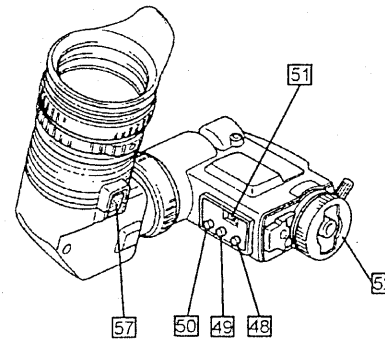
- 32** Video output connector (BNC)
Composite video signal output (1 Vp-p/75Ω).
- 33** Monitor output connector (BNC)
Video signal output for monitor (1 Vp-p/75Ω). The same character signal as the viewfinder is superimposed on the video signal to allow checking the setting menu from the monitor screen.
- 34** Genlock In connector (BNC)
Reference signal input for applying genlock to the camera.
- 35** Remote control connector (4 pin)
Connection for RC-Z1, RC-Z11, RC-Z2A or RC-Z21A camera remote control panel or a personal computer.
- 36** Microphone connector (XLR, 3P)
Connection for separately sold microphone. Microphone power is supplied from this connector.
- 37** Lens connector (12 pin)
Connection for lens cable.
- 38** CCU/VTR connector (28 pin for CA-Z31, 26 pin for CA-Z32)
Use separately sold cable to connect a portable VTR or RU-Z1/RU-Z2 camera base station.
- 39** Lighting shoe screw hole (1/4-inch 20UNC)
- 40** Accessory shoe
A small spotlight can be attached without the light striking the lens, viewfinder or microphone.
- 41** 5-inch viewfinder attachment
The GM-51 5-inch viewfinder can be attached by using the AT-30 adapter.
- 42** Mic holder screw hole
A separately sold MH-Z3 mic holder can be attached.

Facility names and functions

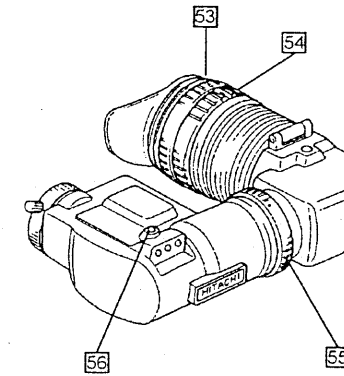


- 43** Rear cover
Contains connections for battery and extension adapter, etc.
- 44** DC IN connector (XLR, 4P)
Connect the separately sold AC adapter for operating from AC power.
- 45** Intercom connector (XLR, 5P)
Connect intercom headset (MT-12MF) when using the RU-Z1/RU-Z2 / RU-Z3.
- 46** 150 V Out connector (5 pin, CA-Z32 only)
Connect 150 V to 12 V power supply adapter when using a large size lens.
- 47** Audio monitor connector (minijack)
Connect an earphone (8 to 10Ω) to monitor microphone or VTR playback sound.

Facility names and functions



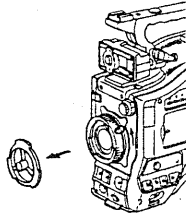
- 48** Brightness control
Adjusts viewfinder screen brightness. Does not affect camera output signal.
- 49** Contrast control
Adjusts viewfinder screen contrast. Does not affect camera output signal.
- 50** Peaking control
Adjusts viewfinder video contours for easier focus adjustment. Does not affect camera output signal.
- 51** External tally switch
ON : External tally lamp lights.
OFF : External tally lamp does not light.
- 52** Camera connector
Connects viewfinder to camera.



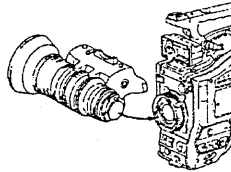
- 53** Eyecup
- 54** Visibility adjust ring/knob
Adjust for best viewfinder image clarity according to the operator.
- 55** Tightening ring
Secures eyecup after adjusting the vertical angle.
- 56** External tally indicator
When the external tally switch **51** is on, lights in conjunction with the viewfinder screen tally.
- 57** Flip-up button

Lens installation

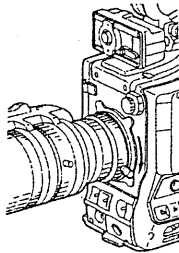
- 1 Raise the lens lever and remove the mount cap.



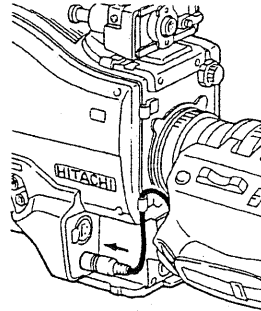
- 2 Align the lens center mark with the indent at the upper part of the lens mount and install the lens



- 3 Lower the lens lever to secure the lens.



- 4 Engage the cable with the cable clamp and connect it to the lens connector.



- Refer to the lens instructions when using the lens.

Notes:

The following adjustments may be required according to the type of lens.

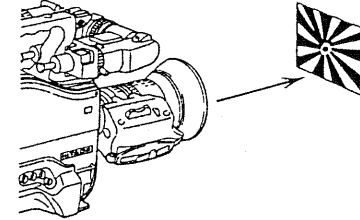
1. Lens flangeback
2. Lens auto iris speed
3. Lens white shading (with camera)

Lens flangeback adjustment

When operating a zoom lens, if the focus is not precisely aligned at both the telephoto and wide angle extremes of the lens, the flangeback (distance from the lens mounting plane to the focal plane) is adjusted. This adjustment is generally required only once unless the lens is replaced.

Reference

Refer to the lens operating instructions regarding the component positions for flangeback adjustment.



Flangeback adjustment

- 1 Set the lens iris for manual operation.
- 2 Open the iris. Set a flangeback adjusting chart about 3 meters distant and adjust the lighting to obtain the correct video output level. If the video level is too high, use a CC/ND filter or electronic shutter.
- 3 Loosen the Ff ring setscrew.
- 4 By hand or motor, set the zoom ring to the telephoto position.
- 5 Observe the flangeback chart image and turn

the distance ring to adjust the focus.

- 6 Set the zoom ring to the wide angle position.
 - 7 Turn the Ff ring and adjust the focus. Use care not to turn the distance ring.
 - 8 Repeat this process until focus is obtained at both telephoto and wide angle settings.
 - 9 Securely tighten the Ff ring setscrew.
- Also, see the lens operating instructions.

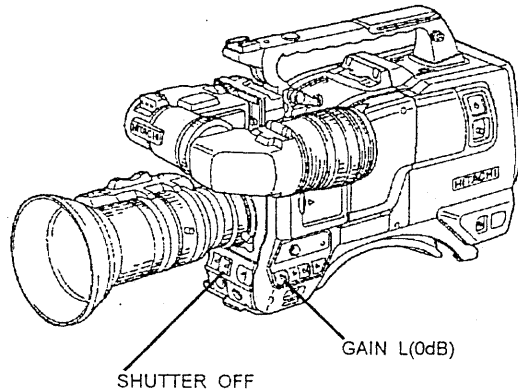
White shading adjustment

White shading adjustment is recommended after replacing the lens. The adjustment relates to the camera vertical coloration. If the lens includes an extender, the shading can be optimized for both extender on and off modes.

(Vertical coloration refers to an effect whereby the image of an overall white sheet of paper tends toward green at the top and magenta at the bottom, or vice versa.)

Adjustment steps

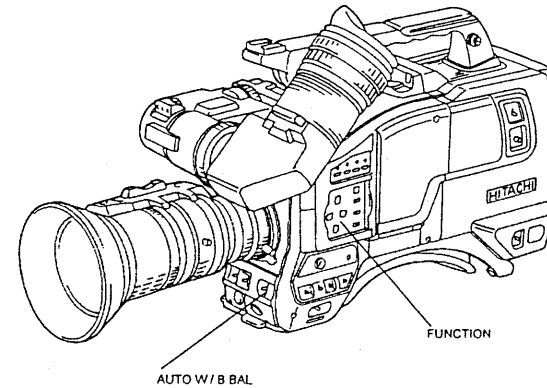
- 1 Install the lens on the camera (be sure to connect the lens cable).
- 2 Set the electronic shutter to off and the gain to L (0 dB).



- 3 If provided, set the lens extender to off.
- 4 Notice that flicker can occur with fluorescent or mercury lighting. Therefore, use sunlight or halogen as the light source.
In the auto iris mode, check that the iris is between F4 and F11. If necessary, adjust the light source position (be sure the electronic shutter is off).

White shading adjustment

- 5 **[FUNC]** **[<]** **[>]** **[▲]** **[▼]** Operate the Function buttons to produce the Full Function mode Special Set page, then shift to the WHT Shading page.
- 6 At the WHT Shading page, shift the cursor to Auto Setup.
- 7 Press the < direction button for about 1 second to conduct AWB. Then press the > direction button for about 1 second to adjust white shading. The viewfinder top and bottom cursors flash to indicate automatic white shading adjustment in progress. The cursors extinguish at the end of adjustment.
- 8 Set the extender (if provided) to on and repeat the above step.
- 9 Close the Function menu.

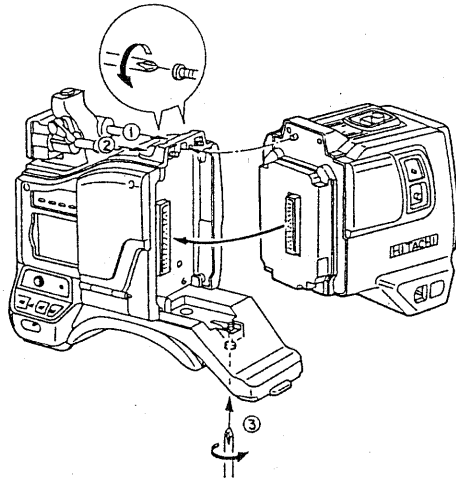


White shading adjustment is completed by the above. The adjustment is stored in a nonvolatile memory and ordinarily does not need to be repeated even if the power is switched off.

Notes:

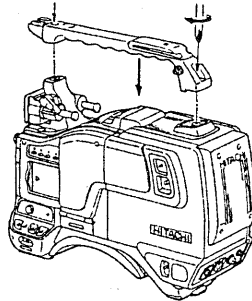
1. Precise adjustment may not be obtainable with some special lenses.
2. Even after adjustment, some coloration may occur near the open iris setting. This is due to lens and optical system characteristics and is not a malfunction.

Camera adapter installation



1. Align the adapter with the camera guide and guide pin. Attach the adapter and engage the connector.
2. Tighten the screws provided with the handle to secure the camera adapter to the camera.

3. Install the handle with two screws.

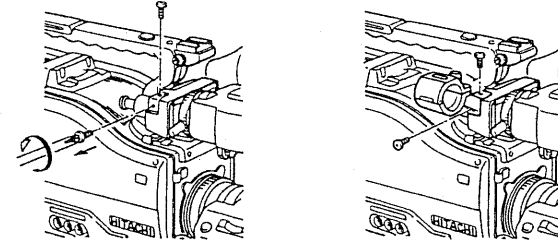


CAUTION
Tighten the screws completely. Check for absence of wobble between the camera and adapter.

Microphone installation

Mic holder attachment

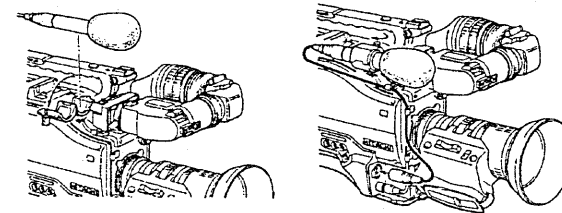
Attach the MH-Z3 microphone holder (separately sold).



Microphone

Install the (separately sold) MC-Z2 microphone and C-300MA microphone cable as follows.

1. Attach the MC-Z2 microphone to the mic holder.
2. Connect the C-300MA mic cable to the microphone.
3. Secure the cable in the cable clamp and connect to the MIC IN connector.



Microphone power and sensitivity

Set from Function 2 menu screen.

1. Phantom power (+48 V) can be supplied. Set to on for the MC-Z2 or ME-66. Set to off for an internal battery or dynamic type microphone.
2. Select the microphone sensitivity.

FUNCTION 2	
M. BLACK	:0
DYNA CHROMA	:ON
DNR MODE	:MODE1
ZEBRA TYPE	:1
LEVEL	:MID
CS-1 SW	:QUICK FOCUS
CS-2 SW	:CONTRAST
MIC SENSE	:MID
PHANTOM	:OFF
F. AUTO SEL	:->

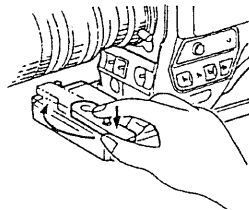
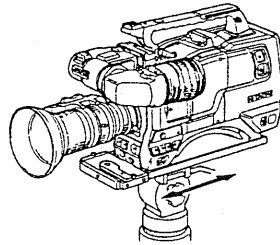
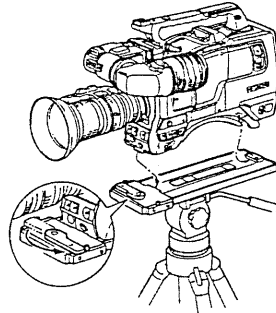
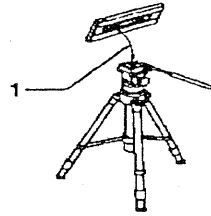
Earphone connection

Sound can be monitored by connecting a conventional earphone (8 to 10Ω) to the AUDIO MON jack.

Tripod mounting

Use the accessory TA-Z3 tripod adapter to mount the camera on a tripod.

1. Securely attach the tripod adapter to the tripod. Shift the adapter screw position to obtain the best balance. The adapter can accept two types of screws. Use the screw hole that matches the tripod.
2. Secure the camera on the tripod adapter. Align the hooks of the camera and adapter, then turn the lock lever in the direction indicated by the arrow. A click sound can be heard at the locked position.
3. Slightly loosen the tripod screw and again check the balance. Shift the adapter to the optimum position and securely tighten the tripod screw.



Detaching

Press the red lock pin and turn the lever in the arrow direction. Remove the camera

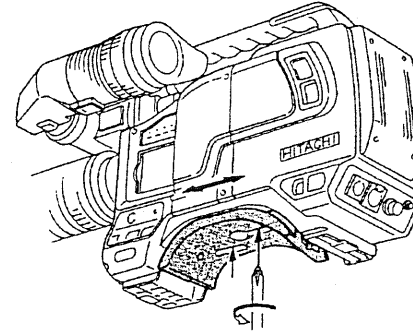
CAUTION

1. The weight can exceed 5 kg with the lens and 10 kg with a VTR. Use a sturdy tripod that can support more than 10 kg. A large size tripod can provide both stability and smooth operation.
2. A screw hole is located near the camera tripod adapter hook. Do not use this hole for attaching to the tripod. There is risk of dropping.

Shoulder pad position

The shoulder pad can be shifted up to 15 mm in either direction from the center (factory) position. The position can be adjusted for comfortable operation.

1. Loosen 2 screws.
2. Slide the pad forward or rearward to the best position.
3. Tighten the 2 screws.

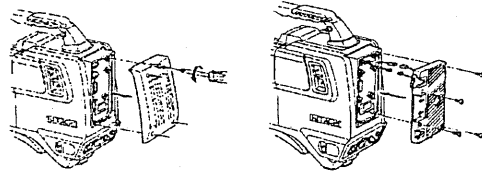


Anton-Bauer battery pack

Anton-Bauer battery pack

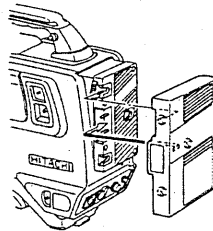
Procure the separately sold battery holder to operate the camera from an Anton-Bauer battery.

1. Use 4 screws to attach the battery holder to the rear of the camera adapter.

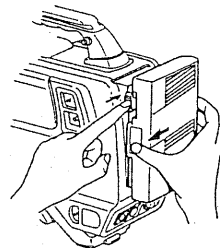


Note: The optional battery holder connecting cable is required. Consult Hitachi denshi service center.

2. Attach the battery pack. Insert and slide the battery pack.



3. Set the camera adapter Power Select switch to BATT.
4. To remove the battery, set the battery holder detaching lever fully downward, then slide the battery as shown by the arrow to remove it.



Note:

The intelligent/ultra basketry can also be used. The intelligent battery can automatically detect battery remaining of more than 10%. The viewfinder indicates battery remaining as a percent. Below 10%, the indication is voltage.

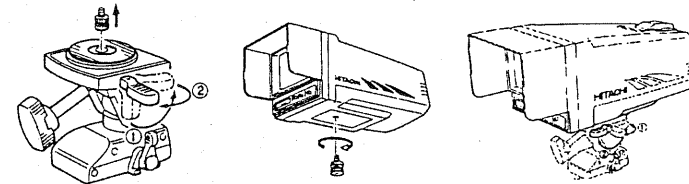
If external power is supplied after detection, the indication is intelligent battery remaining amount.

GM-51 5-inch viewfinder attachment

Use the separately sold AT-30 viewfinder adapter when installing the GM-51 5-inch viewfinder.

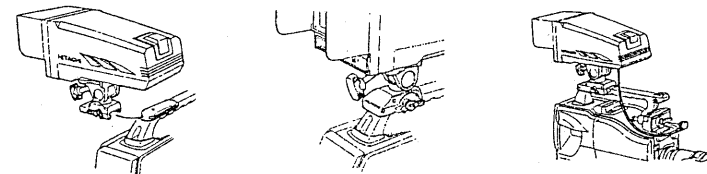
1. Raise the lock lever of the AT-30 horizontally and remove the viewfinder mounting screw from the AT-30. Insert this screw in the bottom of the GM-51. Insert the screw together with the GM-51 into the AT-30 and set the lock lever forward, then turn the lever clockwise to secure it.

Warning: Be sure to tilt the lock lever forward and turn it clockwise to tighten it. If tightening is overlooked, the GM-51 can drop and pose a risk of injury.



2. Insert the GM-51 and AT-30 into the slot at the rear of the handle and slide them forward until a latching sound is heard from the release knob.

Warning: Press the release knob to where a latching sound is audible. If not securely attached, the entire viewfinder can drop and pose a risk of injury.



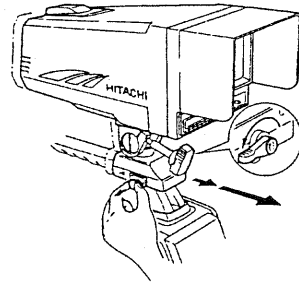
Set lock lever B of the AT-30 rearward.

Turn lock lever B clockwise and check for absence of wobble at the AT-30 mounting.

Connect the viewfinder cable to the camera viewfinder connector.

GM-51 5-inch viewfinder attachment

3. Removal
 Disconnect the viewfinder cable.
 Turn the AT-30 lock lever B counter-clockwise and pull the release knob to allow removing both the GM-51 and AT-30.



VTR connection

VTR docking

Examples of compatible VTRs

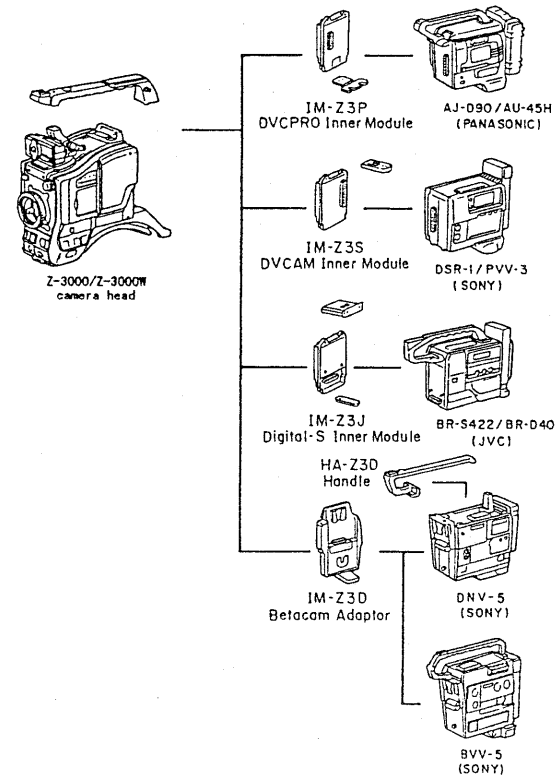
Sony	DNV-5 (BETACAM SX) BVV-5 (BETACAM SP) PVV-3 (BETACAM SP2000PRO) DSR-1 (DVCAM)
Matsushita (Panasonic)	AJ-45H (M II Promind) AJ-D90 (DVCPRO)
JVC	BR-S422 (S-VHS) BR-D40 (DIGITAL-S)

Note:
 VTR examples are shown only for general reference. Model names and specifications are subject to change.

Required inner modules (separately sold)

Note:

Refer to the VTR and inner module instructions for details regarding installation.



VTR connection

VTR types and connections

System	Camera setting (see Note)		VTR cable		VTR inner module	Main VTR
	VIDEO(VTR)	AUDIOLEVEL	CA-Z31	CA-Z32		
BETACAM	COMP100%	-60dB	----	----	IM-Z3D	DNV-5 BVV-5
			----	----	IM-Z3S	PVV-3
			C-201TE C-501TE	C-201TB C-501TB	----	BVV-50
DVCAM	COMP100%	-60dB	----	----	IM-Z3S	DSR-1
M2	COMP75%	-60dB	----	----	IM-Z3P	AU-45H
			C-201TE C-501TE	C-201TB C-501TB	----	AU-520
			----	----	IM-Z3P	AJ-D90
S-VHS	Y/C	-20dB	----	----	IM-Z3P	BR-S422
			C-201TD	C-301TF	----	(AG-7400) (BR-S400)
DIGITAL-S	COMP100%	-20dB	----	----	IM-Z3P	BR-D40
U-matic	VBS	-60dB	C-201TD	C-301TF	----	VO-8800

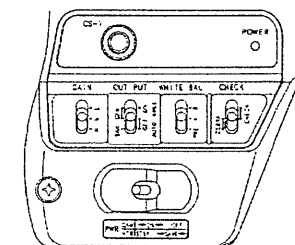
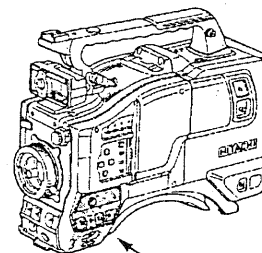
- Note:
- Set at the System sub-menu of the Function menu screen.
 - When using a dockable VTR with inner module, camera setting is unnecessary. The System sub-menu indicates Auto.

SYSTEM	
VF DTL CONT	: MENU
VIDEO (VTR)	: AUTO
AUDIO LEVEL	: AUTO
CLOSE LIMIT	:
IRIS SPEED	: 0
REMOTE	: 9600BPS
BATT TYPE	: 12V
ALARM SET	: 11.5V

VTR connection

VTR power save

When the camera PWR switch is set to VTR Save, the VTR types operate as follows.



VTR	Operation
DNV-5, BVV-5, PVV-3, DSR-1, AU-45H, AJ-D80	The VTR goes to power save mode to avoid battery depletion
BR-S422, BR-D40	All VTR operations inhibited.

REC review and playback monitor

When the VTR includes a recording review function, in the VTR REC Pause mode, press the lens RET button to view the final few seconds of the recording in the viewfinder. By setting the VTR to the playback mode, the playback image automatically appears in the viewfinder, while the sound can be heard with an earphone. If the VTR does not have a REC review function, the playback mode image can be seen while the RET button is held depressed.

Operation differs according to the VTR.

Power supply

When the CA-Z31/CA-Z32 is installed, power can be supplied as follows. Set the Power Select switch accordingly.

1. Connect the separately sold AP-60 AC adapter to the DC IN connector.
2. Connect the camera base station or VTR to the CCU/VTR connector.
3. Connect Anton-Bauer battery.

(Note)

- When a Betacam type VTR is directly connected to the camera, power is supplied from the VTR.

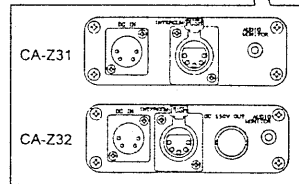
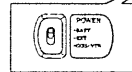
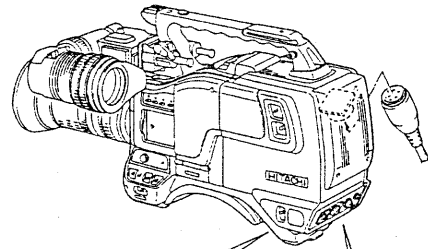
Caution

1. The DC IN connector can accept 10.5 to 17 VDC. However, use a designated power supply of 12 to 13 VDC. Voltage exceeding 17 VDC can cause damage.
2. In not using the equipment for an extended period of time, set the AC adapter switch to off. If a battery is connected, remove the battery.

Voltage down display

As the voltage declines, B lights in the viewfinder. The System sub-menu of the Special Set menu sets the battery type. Alarm Set adjusts the voltage at which B lights.

Battery type	Alarm operating voltage
12.0V	10.5V~11.6V
13.5V	11.7V~12.8V
14.4V	12.9V~14.0V



Power Select switch positions

Power supply	Setting position
1	EXT
2	EXT
3	CCU/VTR
4	BATT

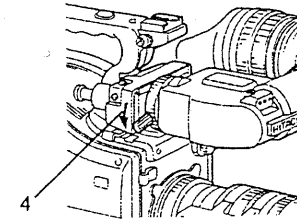
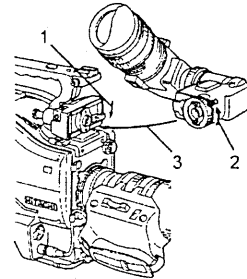
SYSTEM

VF DTL CONT : MENU
 VIDEO (VTR) : COMP100%
 AUDIO LEVEL : -60dB
 CLOSE LIMIT :
 IRIS SPEED : 0
 REMOTE : 9600BPS
 BATT TYPE : 12V
 ALARM SET : 11.5V

Viewfinder adjustment

Viewfinder installation

1. Turn the lock lever as indicated by the arrow to secure the viewfinder guide.
2. Turn the viewfinder lock lever fully counter-clockwise.
3. Align the 2 viewfinder guide pins with the camera guide holes and insert the viewfinder.
4. Secure the lock lever firmly in the arrow direction.



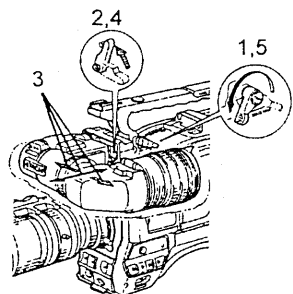
CAUTION

Connect the viewfinder correctly and securely to the viewfinder connector.

Viewfinder adjustment

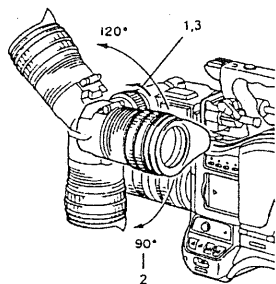
Position adjustment

1. Turn the lock lever in the arrow direction to loosen the horizontal lock.
2. Turn the lock screw in the arrow direction to loosen the front to rear lock.
3. Adjust the viewfinder left to right and front to rear positions for comfortable viewing.
4. Tighten the lock screw firmly.
5. Tighten the lock lever securely.



Eyepiece angle adjustment

1. Turn and loosen the securing ring.
2. Adjust the eyepiece vertical angle for comfortable viewing.
3. Firmly tighten the securing ring.

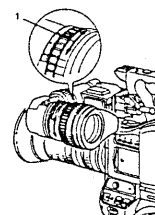


Viewfinder adjustment

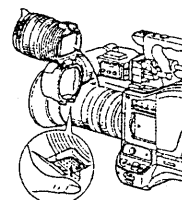
Visibility adjustment

The focus can be fine adjusted to individual preference.

1. Adjust the camera focus.
2. Turn the visibility ring to adjust the focus of the viewfinder image.



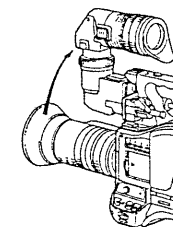
Press the Flip-up button and raise the eyecup.



Note:

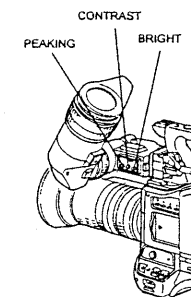
Transporting the camera

Stand the viewfinder vertically as shown in the figure for ease of carrying about.



Screen adjustments

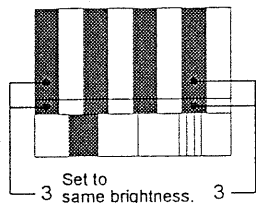
As required, adjust the brightness, contrast and peaking controls.



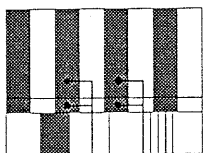
Color monitor adjustment

A color monitor is adjusted with the color bar signal (SMPTE) output from the camera.

1. Set the camera BAR/CAM switch to CAM.
2. Set the color monitor for blue (B) single color (if monitor is a selectable color type).
3. Turn the Chroma control of the monitor and adjust as indicated in the figure.



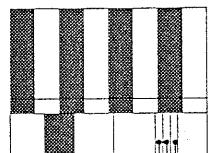
4. Adjust the Hue (chroma phase) control as indicated in the figure.



Repeat adjustments 3 and 4 to where 4 blue lines are the same brightness.

5. Return the monitor to the normal 3 color mode (if monitor is a selectable color type).

6. Turn the monitor brightness control and adjust as indicated in the figure.

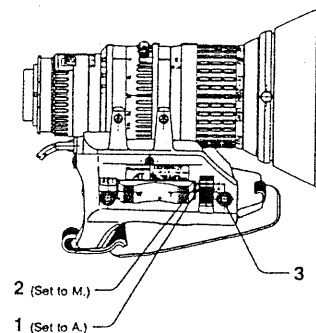


7. Set the camera BAR/CAM switch to CAM.

Iris adjustment

Auto, manual and instant auto are selectable. Instant auto functions during manual operation to adjust the iris automatically while the button is pressed.

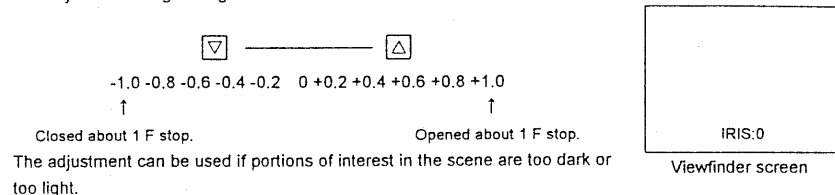
1. **Automatic**
Set the lens Iris switch to A. The iris is adjusted automatically to accommodate camera video signal changes.
2. **Manual**
Set the switch to M. The iris is adjusted by manually turning the iris ring.
3. **Instant automatic**
With the Iris switch at M, pressing the button instantly and automatically adjusts the iris.



<Notes>

1. Set the iris response (peak/average) from the Function 1 menu screen.
2. While the menu screen is not displayed, fine adjust the auto iris by pressing the Δ ∇ buttons.

The adjustment range using the buttons is indicated below.



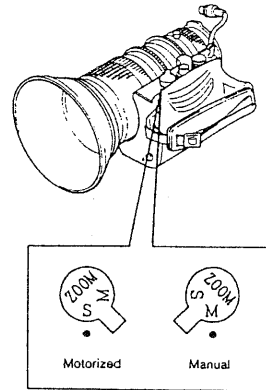
3. **Zebra pattern**
When set to on, a zebra pattern appears on the viewfinder screen. The pattern can be used as a reference for manual iris adjustment.

Zoom and macro operation

Zoom operation

Zoom operation can be set for motorized or manual.

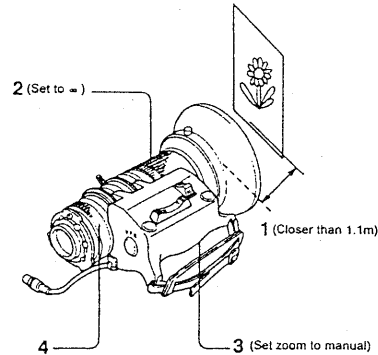
1. Motorized zoom
Set the zoom switch to S (servo) and operate the T-W switch. Press W for wide angle and T for telephoto. Press strongly for fast and gently for slow operation.
2. Manual zoom
Set the zoom switch to M (manual) and manually operate the zoom lever.



Macro operation

Use this function when the camera subject is closer than 1.1 meters from the lens.

1. Approach the camera subject for the required size image.
2. Set the focus ring to infinity (∞).
3. Set the zoom switch to M.
4. Set the macro ring to macro and fine adjust the focus with the zoom lever.



(Note)

Focus ring setting other than ∞ can darken the picture edges.

Optical filter selection

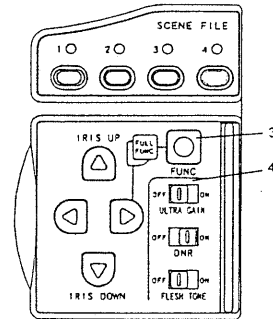
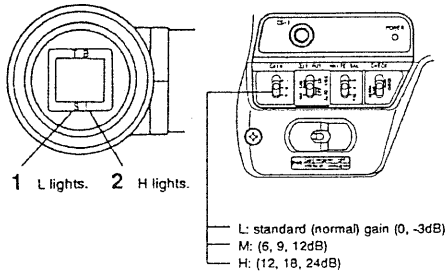
The correct optical filter according to the scene light source needs to be selected in order to obtain correct white balance. Set the CC/ND filter knob as follows.

No	Filter	Light source
1	3,200K	Studio (tungsten or halogen) Sunrise, sunset
2	5,600K+1/16ND	Outdoors clear sky
3	5,600K	Fluorescent lighting Outdoor cloudy or rainy
4	EFFECT	Studio, cross filter

Video gain selection

The gain can be raised to enable images in locations with inadequate lighting. Notice that noise increases as the gain is raised.

1. The viewfinder image darkens when lighting is insufficient. If the lens is auto iris, the iris opens completely. The iris setting can be checked from the viewfinder screen.
2. When the gain switch is set to M or H, an exclamation point (!) appears in the viewfinder to advise of high gain mode.



3. Gain values at L, M and H switch positions are set at the Function 1 page.

FUNCTION 1	SCENE 1
CONTRAST	:OFF
AUTO IRIS	:AVERAGE
GAIN LOW	:0dB
MID	:9dB
HIGH	:18dB
DTL	:>
MASKING	:PRESET
GAMMA	:PRESET
INITIALIZE	

GAIN switch	Gain value
L (LOW)	-3dB, 0dB
M (MID)	6dB, 9dB, 12dB
H (HIGH)	12dB, 18dB, 24dB

4. ULTRA GAIN

When the gain setting is above +12 dB, set the Ultra Gain switch to on to increase the sensitivity about 12 dB further. Notice this reduces the horizontal resolution by about half. Normally set the switch to off.

White and black balance adjustment

White balance adjustment

White balance is best adjusted in the sequence AWB (auto white balance), ABB (auto black balance), then again AWB.

Readjustment is normally not required even at power off/on.

Be sure to adjust the white balance after changes in the lighting conditions.

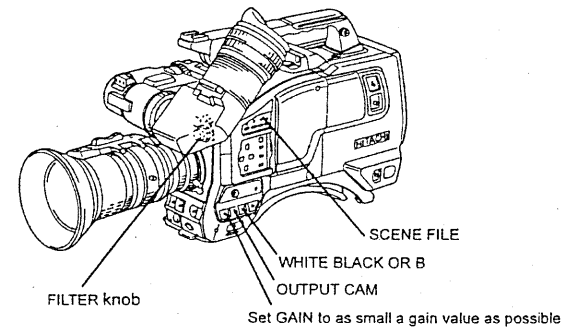
White and black balance adjustment progress can be observed from the viewfinder screen.

<Note>

- The white and black balance cannot be adjusted while the setting menu is displayed on the viewfinder screen. Be sure to exit the setting menu before these adjustments.

1. Set the switches indicated in the figure.

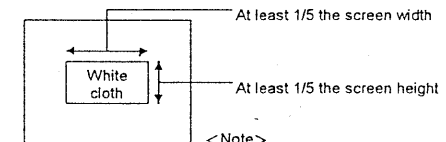
Select a Scene File from 1 to 4. Gain and White Balance switch settings are indicated on the viewfinder screen (when VF Display menu is on).



2. Set the Filter knob according to lighting conditions.

- See Optical filter selection. When changed, the new setting is indicated in the viewfinder for about 3 seconds.

3. Place a white pattern at a location subject to the same lighting conditions as the scene. Use the zoom so that the screen is white. A white object (e.g., cloth, wall) placed near the scene of interest can be used provided the size is adequate (see figure).

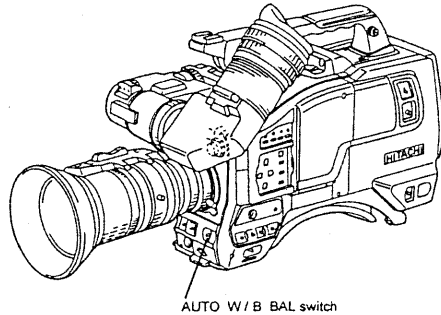


<Note>

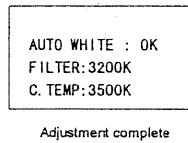
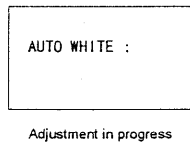
Use care a high luminosity light source, such as a spotlight, does not enter the screen area.

White and black balance adjustment

- Adjust the lens iris.
- Set the White BAL switch to A or B, then set the Auto W/B BAL switch to AWB. The switch returns to center and white balance is adjusted automatically.



- During adjustment, the following messages appear on the viewfinder screen.
- Adjustment is completed in about 1 second, after which the adjustment value is automatically stored in the selected Scene File memory (A or B).



Filter position and illumination color temperature.

<Note>

"Hunting" can occur if an auto iris type zoom lens is used. Adjust the lens iris gain (see lens operating instructions).

(Note 1) Hunting: Undesirable oscillation of an automatic control system, wherein the controlled variable swings on both sides of its desired value. [Dictionary of Scientific and Technical Terms, McGraw-Hill]

White and black balance adjustment

Auto white balance error messages

If auto white balance adjustment fails, the following error messages appear on the viewfinder screen for about 6 seconds.

Message	Cause	Correction
AUTO WHITE : NG CHANGE TO CAM TRY AGAIN	Output switch set to BAR.	Change switch setting to CAM and readjust.
AUTO WHITE : NG CHANGE WHITE BAL TO A/B TRY AGAIN	White BAL switch at PRE, or Full Auto is on (local mode).	Set White BAL switch to A or B, or Full Auto to off, then readjust.
AUTO WHITE : NG CHANGE WHITE BAL TO MEM TRY AGAIN	White BAL switch not at MEM (remote mode).	Set switch to MEM and readjust.
AUTO WHITE : NG LOW LIGHT TRY AGAIN	Lighting insufficient for adjustment.	Increase the lighting or set the Gain switch to M or H. If manual iris lens, adjust the lens. Then repeat white balance adjustment.
AUTO WHITE : NG LEVEL HIGH TRY AGAIN	Excessive lighting for adjustment.	Set Gain switch to a lower position. If manual iris lens, adjust the lens. Then repeat white balance adjustment.
AUTO WHITE : NG C. TEMP HIGH CHANGE FILTER TRY AGAIN	Color temperature too high for adjustment.	Change optical filter and readjust.
AUTO WHITE : NG C. TEMP LOW CHANGE FILTER TRY AGAIN	Color temperature too low for adjustment.	
AUTO WHITE : TALLY ON EXECUTE?	Tally lamp lighted.	While lighted, again set the Auto W/B BAL switch to AWB and begin adjustment.

When the above error messages appear, correct the settings and repeat white balance adjustment.

White balance memory

The adjustment values for each folder can be automatically stored in the respective memory (A or B) according to the White BAL switch setting. The total of 4 folders allows storing 8 adjustment values.

White and black balance adjustment

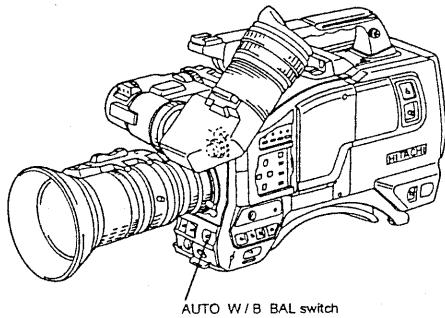
Black balance adjustment

Black balance requires adjustment in the following situations.

- Equipment being used for the first time
- Equipment idle for an extended period
- Large change of ambient temperature
- Gamma setting changed

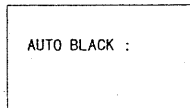
Auto black balance adjustment

1. Set the switches as indicated in the figure.
2. Set the Auto W/B BAL switch to ABB and release the switch. The switch returns to center for adjustment.

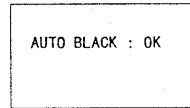


Displays the FILTER position and the color temperature of the lighting.

3. The viewfinder displays the following messages during adjustment.
 - The lens iris is automatically closed.
4. Adjustment is completed in several seconds and automatically stored in memory.



Adjustment in progress



Adjustment completed

White and black balance adjustment

<Note>

- Observe that the lens connector is engaged and the iris is closed.
- The iris closes automatically to block the light during black balance adjustment.
- During black balance adjustment, the gain circuit is switched automatically. Although flicker or noise may appear on the viewfinder screen, these are not malfunctions.
- White and black balance cannot be adjusted while the setting menu appears on the viewfinder screen. Be sure to first close the menu.

Auto black balance error messages

If auto black balance adjustment fails, the following error messages appear on the viewfinder screen for about 6 seconds.

Message	Cause	Correction
AUTO BLACK : NG CHANGE TO CAM TRY AGAIN	Output switch at BAR.	Change switch to CAM.
AUTO BLACK : NG IRIS NOT CLOSE TRY AGAIN	Iris is not closed.	See Note 1.
AUTO BLACK : TALLY ON EXECUTE?	Tally lamp lighted.	While lighted, again set the Auto W/B BAL switch to ABB and begin adjustment.
AUTO BLACK : NG ??? TRY AGAIN	Range exceeded, cannot adjust.	See Note 2.

(Notes)

1. The lens iris is automatically closed during black balance adjustment. If the iris control is manual, open the iris after adjustment.
2. Check lens connection. If ok, fault is in lens or camera. Consult service.

Electronic shutter setting

Shutter modes

The selectable electronic shutter modes and speeds are as follows.

Mode	Shutter speeds	Applications
Standard	1/100, 1/250, 1/500, 1/1000 and 1/2000 second	Clear images of quickly moving objects
LOCK SCAN (Lockscan)	1/61.6 to 1/2000 second (1H steps)	Reduce horizontal streaking in images of computer monitor
CC FRM (CC frame)		Increased vertical resolution

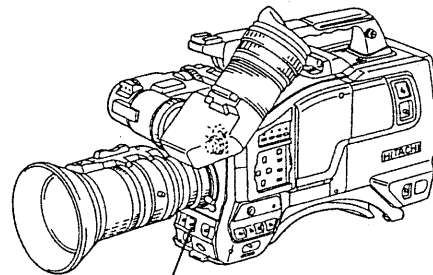
<Note>

- Camera sensitivity declines as shutter speed increases.
- An auto iris lens iris opens at increased shutter speed, while the depth of focus decreases.

Shutter mode and speed settings

- Shift the Shutter switch from ON to SEL to change the shutter speed. The viewfinder screen indicates speed change and new shutter speed.

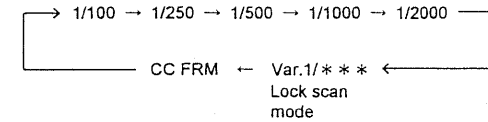
Example: 1/100, CCFRM



SHUTTER switch

Electronic shutter setting

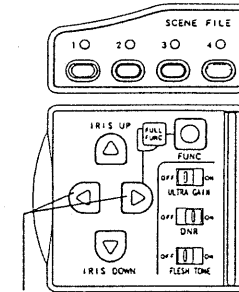
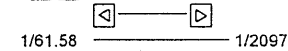
- The mode and speed change sequence is indicated below.



Lock scan mode setting

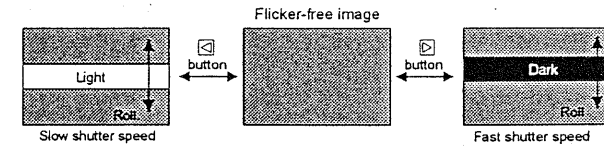
The lock scan mode avoids flicker in scenes showing a computer monitor screen.

- Set the Shutter switch to SEL to produce the lock scan mode (viewfinder screen indicated in figure).
- While Var.1/**** is indicated (about 6 seconds) set the shutter speed with the buttons.



Shutter speed buttons during lock scan mode.

- The image of a computer screen having a different scanning frequency includes a light or dark bar rolling up or down through the image. Adjust the buttons to minimize the bar.



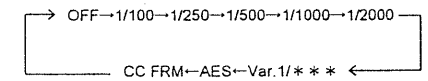
(Note) Flicker cannot be corrected when the display screen scanning frequency is below 61.46 Hz.

CC frame mode

Increases vertical resolution, but sensitivity is reduced 1 F stop.

Operation with RE-1, RC-Z1/RC-Z11

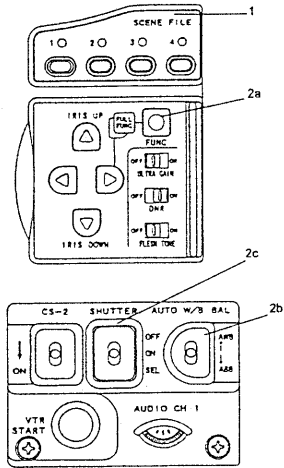
- Press the Shutter button to select the shutter mode in the following sequence.



- In the lock scan mode, the shutter speed can be set with the up/down buttons in the same manner as the camera.

Scene file

When taking scenes having different conditions, the settings need to be optimized for each scene. The scene file function enables setting the conditions for each scene beforehand and storing them in memory for instant recall at the required time. The 4 scene files can be used for storing 4 sets of scene conditions.



Setting steps

- Select the file number with the Scene File switch (adjust camera to the status previously stored in the memory).
- Set the file storage items (if changing the memory contents).
 - Set the Function 1 page items from the setting menu. (See page 45.)
 - Operate auto white balance and store the adjustment in memory (one memory is provided for each of the 4 filters). (See page 39.)
 - Set the shutter and store the setting in memory. (See page 41.)

Note) Data are stored in the selected file simultaneously with setting.

File storage items		
Type	Item	Details
2a	CONTRAST	OFF, NORM, HIGH
	AUTO IRIS	AVERAGE, PEAK
	GAIN LOW	-3,0dB
	GAIN MID	+6,+9,+12dB
	GAIN HIGH	+12,+18,+24dB
	MASKING	OFF, PRESET, MEMORY
	GAMMA	OFF, PRESET, MEMORY
	DTL LEVEL	OFF,-128,....,+127
	DTL FREQ	SOFT, STANDARD, SHARP
	FLESH TONE GAIN	-128,....,+127
FLESH TONE PHASE	-128,....,+127	
FLESH TONE WIDTH	-128,....,+127	
2b	White balance data (each filter)	(Remote mode)
2c	SHUTTER SELECT	1/100,1/250,.... Var, AES, CC FRM

FUNCTION 1	SCENE 1
CONTRAST	:OFF
AUTO IRIS	:AVERAGE
GAIN LOW	:0dB
GAIN MID	:9dB
GAIN HIGH	:18dB
DTL	:->
MASKING	:PRESET
GAMMA	:PRESET
INITIALIZE	

DTL	SCENE 1
DTL LEVEL	:0
DTL FREQ	:STANDARD
FLESH TONE	
LEVEL	:-128
AUTO SETUP:	
PHASE	:97
WIDTH	:0

Camera ID setting

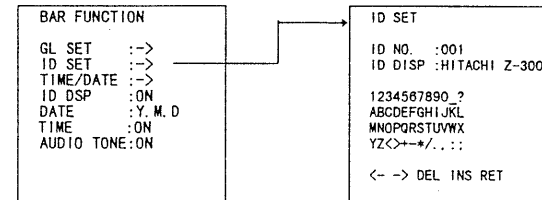
An identification (ID) designation for the camera can be assigned by using the ID SET page of the setting menu.
 ID No. : A 3 place alphanumeric code assigned to each camera. Convenient when controlling multiple cameras from a single personal computer. A specific camera can be accessed from the computer by entering its ID number. ID number is not displayed in the color bar.
 ID DISP : An up to 14 place alphanumeric message displayed at the bottom right of the screen during camera color bar output. Can be used to indicate title or other information.

<Note>

- The camera ID is not indicated at Video Out even during the color bar while the setting menu is displayed.

Setting steps

- Set the Output/Auto Knee switch to Bar and press the Function button. The Bar Function page appears in the viewfinder.
- Press the ∇ button to position the cursor to ID SET, then press the \square button to open the ID SET page.



- While the cursor is at the ID SET line, press the ∇ button to begin setting from ID No. 1 (setting position flashes).
- Select the desired character with the \leftarrow , \rightarrow , Δ , ∇ buttons (character flashes).
- Press the FUNC button to enter the selected character (character cursor shifts ① place).
- Repeat the above steps ② and ③ to enter the ID No. and ID DISP characters.
- Set the cursor to the final line and press FUNC for special functions.
 - \leftarrow : Shift the character cursor 1 place to the left.
 - \rightarrow : Shift the character cursor 1 place to the right.
 - del : Delete the character at the cursor position and close the space
 - ins : Insert a space at the cursor position and adjust the remainder of the line.
 - ret : Shift cursor to the ID SET title line. Afterwards, press the FUNC button to end the function mode.

Notes

To set the ID when using the remote mode, set the Control switch of the remote operation unit to off, then set the ID with the camera controls.



Display on/off

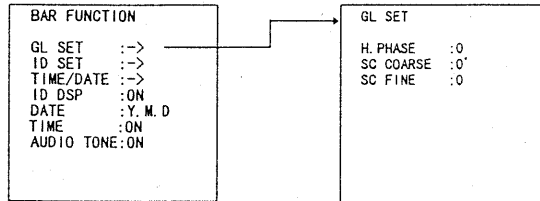
ID display on/off can be selected at the Bar Function menu ID DISP item.

Genlock

The camera can be operated from external synchronization. The mode is automatically switched from internal to external sync when an external sync signal is supplied.

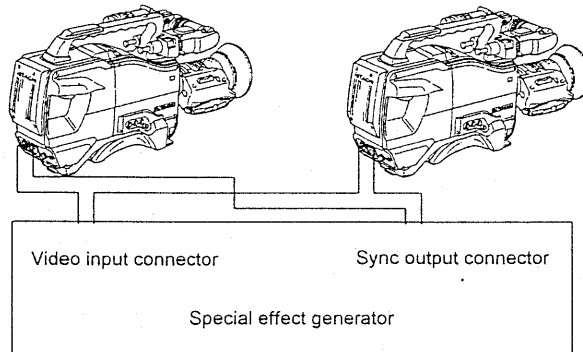
Setting

1. Set the Output/Auto Knee switch to Bar and press the Function button to display the Bar Function page in the viewfinder.
2. Press the  button to position the cursor to GL SET, then press the  button to show the GL SET page.



3. Adjust the horizontal phase with H PHASE and the subcarrier phase with SC COARSE and SC FINE.

Connection example



<Note>

Genlock

When two or more cameras and other equipment, such as a special effect amplifier, are connected into a system, the horizontal sync and subcarrier phase of all equipment must be aligned. Genlock applies a reference signal to the cameras to synchronize operation.

Setup card

A separately sold setup card can be used for storing the setting menu data. The data can then be used to quickly restore the proper setup.

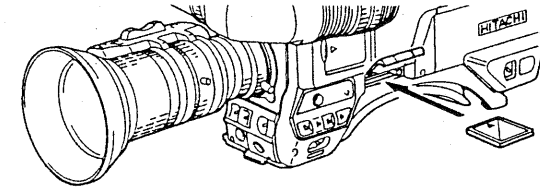
- A small size general purpose memory card (Compact Flash 2M) can be used as the setup card.

Handling

The setup card can be inserted and removed regardless of power on or off. However, avoid inserting or removing while recording is in progress, since operating error can occur.

Inserting

Position the logo side upward, insert the setup card and close the cover.

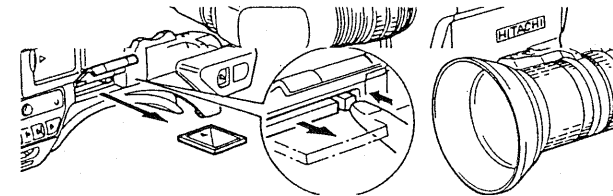


<Note>

Observe the logo is face up and label is correctly oriented when inserting the card. If difficult to insert, the card is probably upside down or backwards. Carefully check the card positioning when inserting.

Removal

Open the cover by raising the bottom edge and press the button to remove the setup card.



<Note>

Avoid touching the terminals at the leading edge of card.

Use and storage

Avoid the following when using and storing the card.

- High temperature and humidity
- Water drops
- Electric fields

Setup card

Setup card data operation

The Memory Card page of the setting menu is used for storing and retrieving setup card data.

<Note>

The Memory Card page cannot be used during camera control panel operation.

Saving data to card

1. Insert the setup card and press the Function button.
2. The following Setup Card page is displayed.

```

SETUP CARD
FILE NO DATE    TIME
1  97.01.01 12:00
2  97.06.01 12:00
3  97.02.22 12:00
4  97.03.01 12:00

LOAD FILE->PUSH ▷(RIGHT)
SAVE FILE->PUSH ◀(LEFT)
FORMAT->PUSH CHECK+▷
  
```

3. Shift the cursor to the desired File No. with the Δ / ∇ buttons.
4. Press the \triangleleft button to display the following message.

```

SETUP CARD
FILE NO DATE    TIME
1  97.01.01 12:00
2  97.06.01 12:00
3  97.02.22 12:00
4  97.03.01 12:00

SAVE FILE?
YES  ->PUSH ◀(LEFT)
CANCEL->PUSH △(UP)
  
```

5. If the File No. is correct, press the \triangleleft button for Yes. If incorrect, press the Δ button for Cancel, then set the correct File No. The following message is indicated at the

completion of save. Press the \triangleleft button to return to the Memory Card Top menu, then press the Function button to exit the menu.

```

SETUP CARD
FILE NO DATE    TIME
1  97.01.01 12:00
2  97.06.01 12:00
3  97.02.22 12:00
4  97.03.01 12:00

SAVE OK
TOP MENU->PUSH ◀(LEFT)
  
```

If Save Error is displayed, the data were not stored. The card could possibly be defective. After replacing the card, if Error still occurs, consult for service.

Retrieving data from card

1. Insert the setup card and press the Function button.
2. The Setup Card page is displayed.

```

SETUP CARD
FILE NO DATE    TIME
1  97.01.01 12:00
2  97.06.01 12:00
3  97.02.22 12:00
4  97.03.01 12:00

LOAD FILE->PUSH ▷(RIGHT)
SAVE FILE->PUSH ◀(LEFT)
FORMAT->PUSH CHECK+▷
  
```

3. Press the Δ / ∇ keys to position the cursor to the desired File No. for readout.
4. Press the \triangleright button to display the following message.

Setup card

```

SETUP CARD
FILE NO DATE    TIME
1  97.01.01 12:00
2  97.06.01 12:00
3  97.02.22 12:00
4  97.03.01 12:00

SAVE FILE?
YES  ->PUSH ◀(LEFT)
CANCEL->PUSH △(UP)
  
```

5. If the cursor is positioned at the correct File No., press the \triangleright button for Yes. If the number is incorrect, press the Δ button for Cancel and return to the Memory Card Top menu, then press the \triangleright button. To end the menu, press the Function button once.

```

SETUP CARD
FILE NO DATE    TIME
1  97.01.01 12:00
2  97.06.01 12:00
3  97.02.22 12:00
4  97.03.01 12:00

SAVE OK
TOP MENU->PUSH ◀(LEFT)
  
```

Data load failure

If Load Error is displayed at above step 5, data were not successfully loaded. The card may be formatted incorrectly or defective. Check and if there is no problem with the card, consult a Hitachi Denshi service representative.

Formatting the card

```

SETUP CARD
FILE NO DATE    TIME
1  97.01.01 12:00
2  97.06.01 12:00
3  97.02.22 12:00
4  97.03.01 12:00

FORMAT FILE?
YES  ->PUSH CHECK+▷
CANCEL->PUSH △(UP)
  
```

```

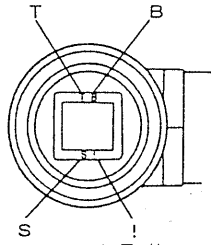
SETUP CARD
FILE NO DATE    TIME
1  97.01.01 12:00
2  97.06.01 12:00
3  97.02.22 12:00
4  97.03.01 12:00

FORMAT OK
TOP MENU->PUSH ▷(RIGHT)
  
```

Viewfinder indications

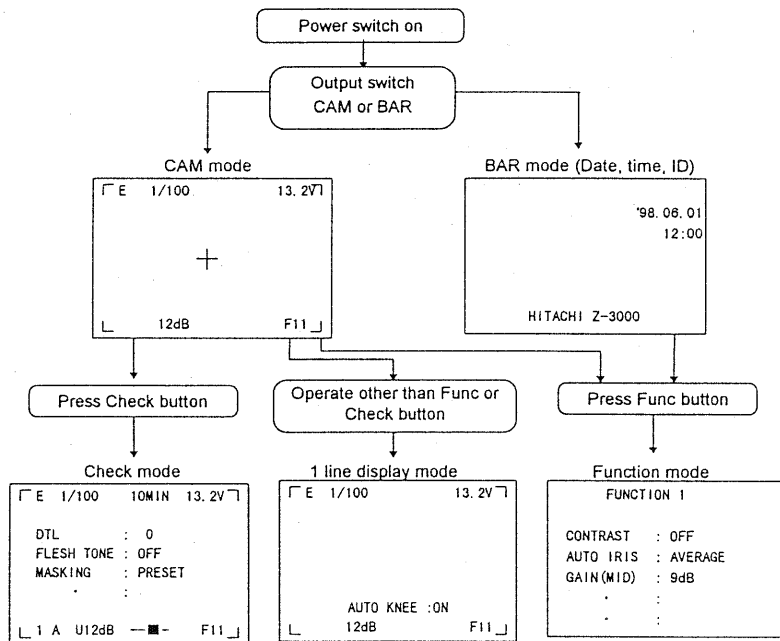
Lighted indicators

The following lighted indicators appear above and below the viewfinder screen.



T:TALLY (Tally)	VTR connected: Lights during recording
B:BATT (Battery)	CCU connected: Lights at tally signal
S:VTR SAVE (VTR save)	Lights to indicate low battery voltage. Immediately replace the battery when lighted.
I:(Setting discrepancy)	Lights when Power switch is set to VTR Save.
	lights in the following situations
	Gain switch other than Low
	Shutter switch on
	Contrast (Function 1 menu) other than off

Viewfinder screen indications



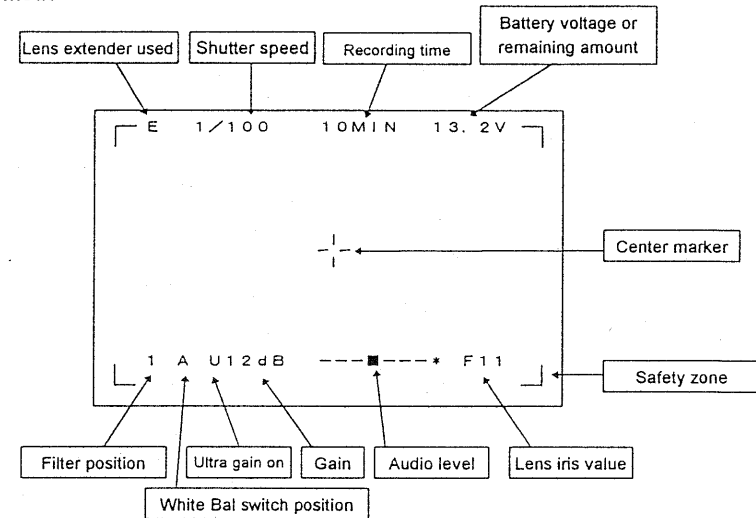
(Note) Check mode is produced for about 3 seconds after pressing the Check button. Then return to CAM mode.

Viewfinder indications

In addition to the video image, the viewfinder displays messages related to camera settings and operating status, center and safety zone markers and other information.

- When set to on at the setting menu VF Display page, setting items are indicated at the top and bottom edges of the screen.
- Messages regarding switch changes and adjustments are shown for about 3 seconds at the center of the screen.

CAM mode



The above items are indicated only when set to on at the setting menu VF Display page.

Viewfinder indications

Display description

Item	Description	
Extender	(No indication) E W	: Extender off : Extender on : Wide setting ($\times 0.8$) on
Shutter speed	OFF 1/100, 1/250, 1/500, 1/1000, 1/2000 1/61.58 to 1/2097 CC FRM AES	: Shutter off : Preset shutter : Lock scan mode : CC frame mode : Auto electronic shutter mode
REC Time	000 MIN to 255 MIN	Cumulative recording time. To reset, simultaneously press the \leftarrow \rightarrow buttons during REC Time display.
Battery voltage	12.0 to 13.2 V	Indicates voltage being supplied to camera
Battery remaining	MAX, 90 %, 70 %, 50 %, 30 %, 20 %, 10 %, EMP	Battery remaining amount indicated as a percentage (when using Anton/Bauer Digital Magnum series battery).
Filter position	E 1 2 3 4	: Error, filter position not set correctly : Filter 1 selected : Filter 2 selected : Filter 3 selected : Filter 4 selected
White BAL switch and full auto white balance	A B P F	: White BAL switch position A : White BAL switch position B : White BAL switch position PRE : FAW (Function 2 setting menu) on
Ultra-gain	(No indication) U	: Off : On
Gain	-3, 9, 6, 9, 12, 18, 24 dB	
Audio level	----■----* ----■----	: Exceeds standard level : Standard level
Iris value	Open F2 to F22 CLS ***	: Iris open : Iris value : Iris closed : Incompatible lens (e.g., 6 pin lens)

Viewfinder indications

Check mode

Set the switch to Check and press the Check button. The CAM mode is returned about 3 seconds after releasing the button.

- All items of the CAM mode are indicated at the top and bottom edges of the screen (see CAM mode description).
- The center of the screen shows the DTL, Flesh tone and other switch setting states.

E 1/100 10MIN 13.2V	
DTL	: 0
FLESH TONE	: OFF
MASKING	: PRESET
CONTRAST	: OFF
ZEBRA	: TYPE1 (MID)
CS-1	: CONTRAST
CS-2	: QUICK FOCUS
1 A U12dB ---■---* F11	

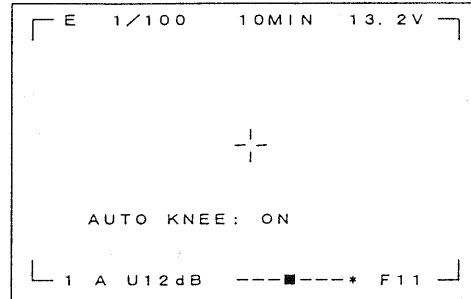
Display description

Item	Description	
DTL level	DTL	: OFF, -128.....0.....+127
Flesh tone	FLESH TONE	: ON, OFF
Masking	MASKING	: OFF, PRESET, MEMORY
Contrast	CONTRAST	: OFF, NORMAL, HIGH
Zebra type	ZEBRA	: OFF, TYPE1(LOW), TYPE1(MID), TYPE1(HIGH) TYPE2(LOW), TYPE2(MID), TYPE2(HIGH)
CS-1 switch functions	CS-1	: CONTRAST, QUICK FOCUS, FULL AUTO
CS-2 switch functions	CS-2	: CONTRAST, QUICK FOCUS, FULL AUTO

Viewfinder indications

One line indicating mode

The switch operation effect is indicated at the 2nd line from the bottom.



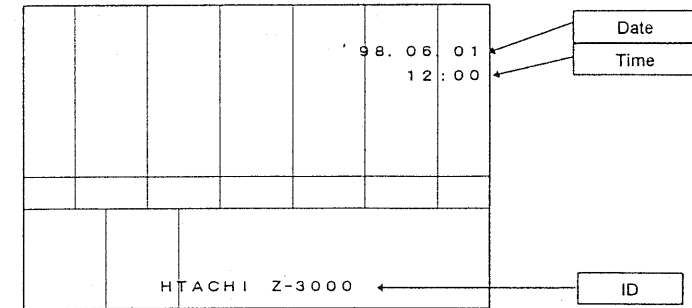
Display description

Switch	Description	
Effect (set to Zebra)	ZEBRA :	ON, OFF
ULTRA GAIN	ULTRA GAIN :	ON, OFF
FLESH TONE	FLESH TONE :	ON, OFF
DNR	DNR :	ON, OFF
CS-1, CS-2	CONTRAST :	OFF, NORMAL, HIGH
	QUICK FOCUS :	ON, OFF
	FULL AUTO :	ON, OFF
OUTPUT(AUTO KNEE)	AUTO KNEE :	ON, OFF
CC/ND FILTER	FILTER :	3200K, 5600K+1/16ND, 5600K, EFFECT
	IRIS :	+1.0, +0.8, +0.4, +0.2, 0, -0.2, -0.4, -0.8, -1.0 (*1)
 (VAR select by Shutter switch)	SHUTTER Var :	61.58 to 2097 (NTSC) (*1) 51.14 to 2083 (PAL)

*1 Iris and Shutter settings only are displayed for about 6 seconds.

Status Indication of Viewfinder Screen

BARS mode



(Note) Above items are set at the Function (BAR mode) menu.

Function menu screen

Settings with Function menu

Preparation menu

Settings can be changed by using the Function menu. The principal settings are as follows.

Mode	Menu	Description
1)	CAM Setup Card	Settings when using setup card
2)	CAM Function 1	Memory items for each scene file
3)	CAM Function 2	Other memory items
4)	CAM VF Display	Viewfinder display selection
5)	BAR Bar Function	Main menu for Bar mode
6)	BAR GL Set	Genlock adjustment
7)	BAR ID Set	Identification code input
8)	BAR Time/Date	Time and date setting
9)	CAM Special Set	Use for detailed settings
	Masking	Masking adjustment
	DTL	Detail adjustment
	Gamma	Gamma adjustment
	Knee/Clip	Knee and white clip adjustments
	White Shading	White shading adjustment
	Flare	Flare adjustment
	System	System adjustment

Operation and menu screens

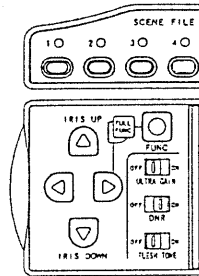
Operation is from the function and direction buttons.

FUNC : Function screen on/off.

◀▶ : • Change page when cursor is at 1st line. When a sub-menu is displayed, press **◀** to return to the main menu. When the cursor is at the 2nd line or lower, use the buttons to change the item setting or shift to a sub-menu. At the main menu, press **▶** to display a designated sub-menu. At the Initialize line, press both buttons simultaneously to initialize the settings.

▲▼ : Shift the cursor vertically.

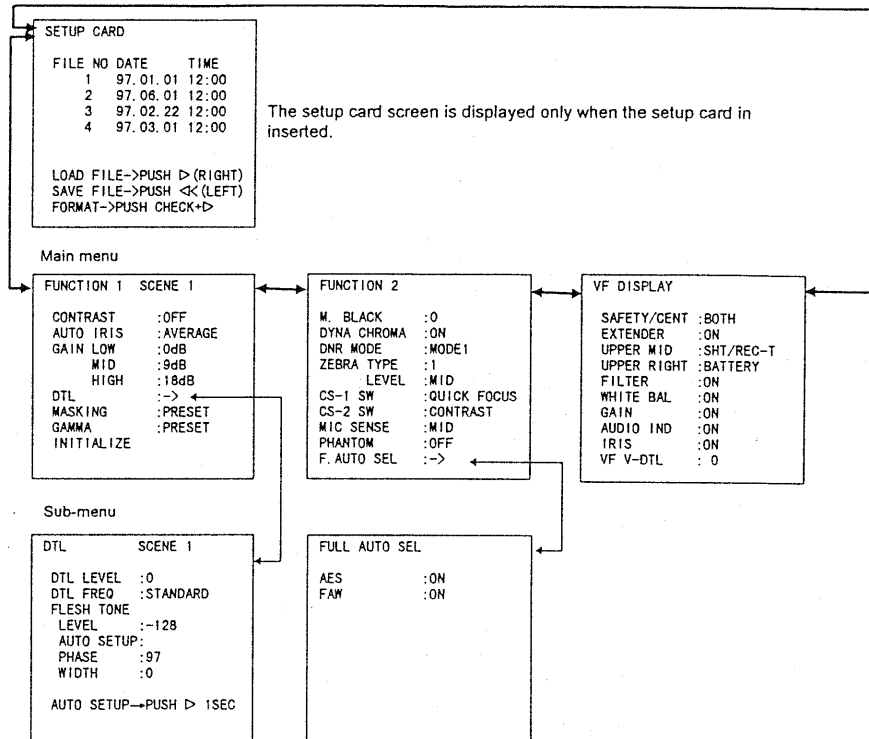
To display the full menu, hold the **▶** button pressed and press the Func button.



Function menu screen

CAM mode (Output switch)

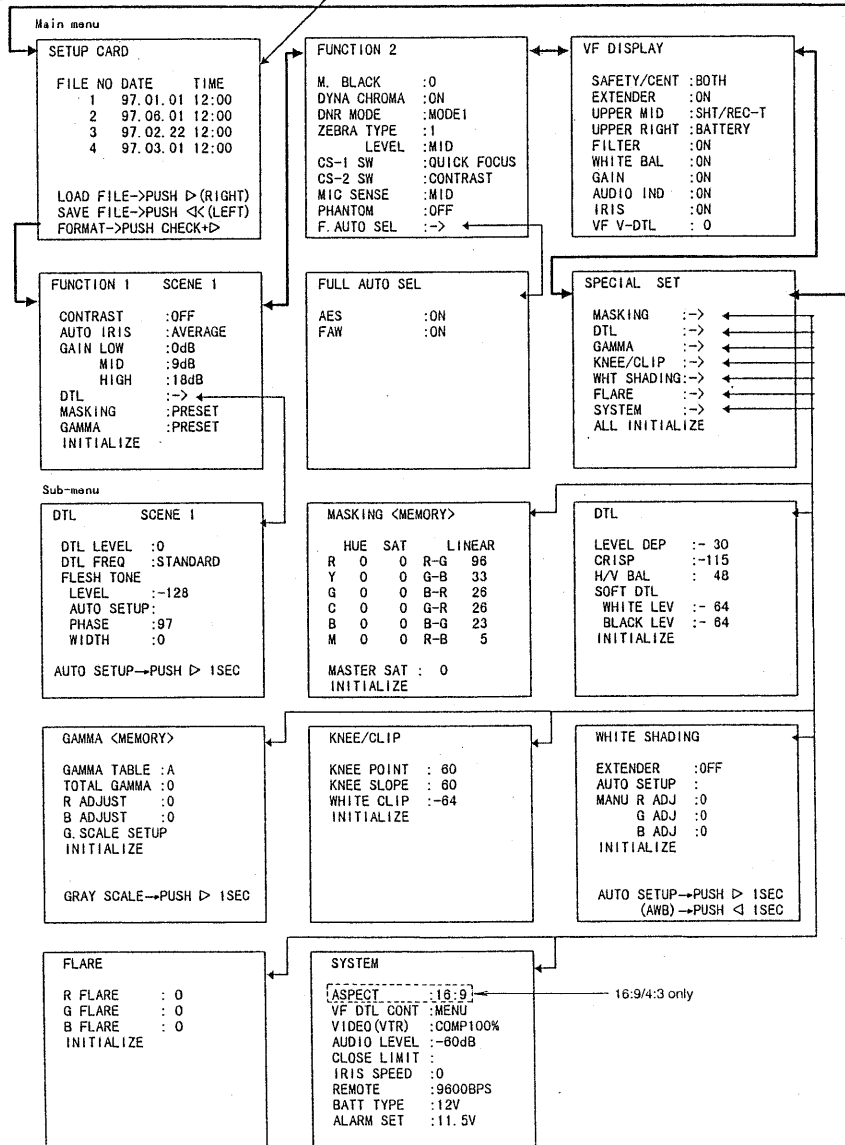
Standard menu



Function menu screen

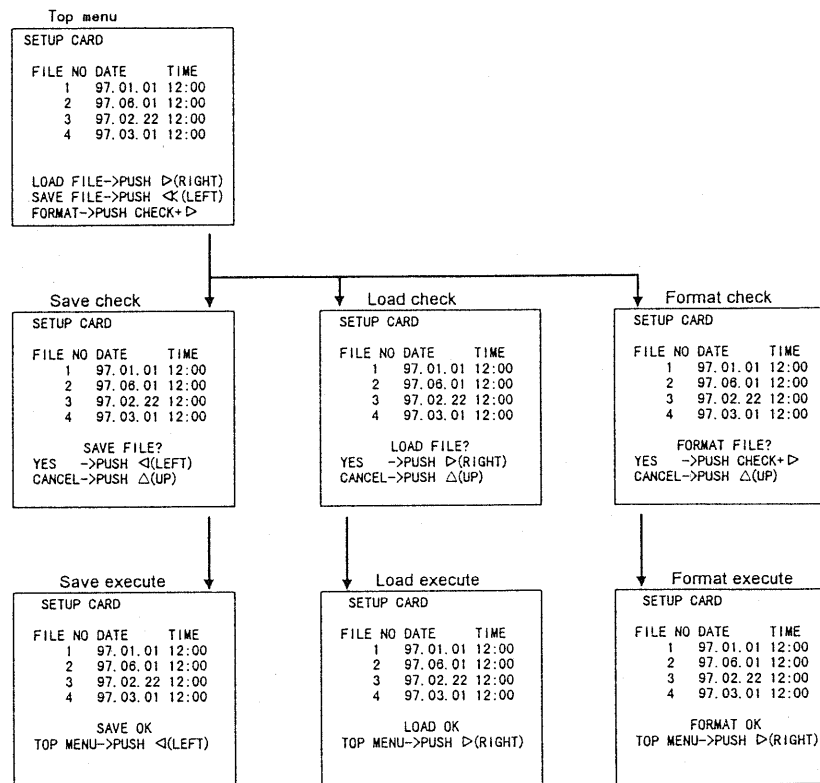
CAM mode (Output switch)

Full menu



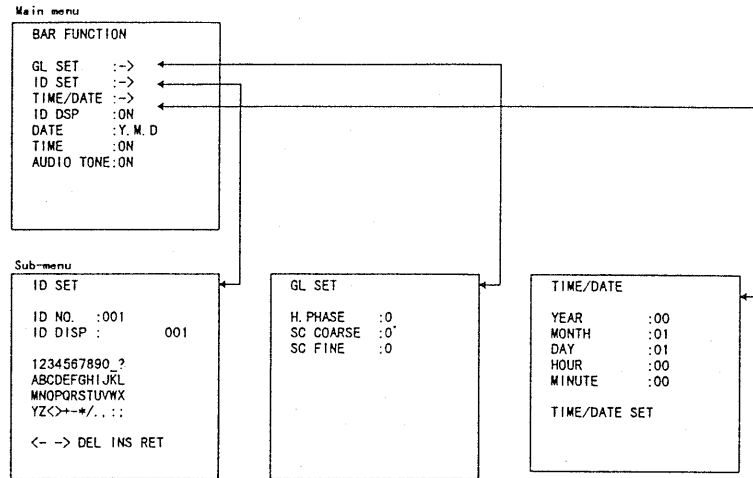
Function menu screen

Setup card menu detail



Function menu screen

BAR mode (Output switch)



Function menu screen

Function menu setting items

Rectangles indicate initialized settings (press buttons simultaneously).

1. Function 1 (Scene 1 to 4) main menu (corresponds to scene file)

CONTRAST	OFF NORMAL HIGH	Select Normal or High when dark scene components are difficult to see due e.g., to backlighting.
AUTO IRIS	AVERAGE PEAK	Selects signal level detecting method for auto iris operation. AVERAGE: Easily viewed background when the scene contains bright components. PEAK: Effective for distinguishing clouds or other bright components.
GAIN	LOW -3dB 0dB	Select -3 dB or 0 dB (local mode only).
	MID 6dB 9dB 12dB	Select 6, 9 or 12 dB (local mode only).
	HIGH 12dB 18dB 24dB	Select 12, 18 or 24 dB (local mode only).
DTL		Display detail sub-menu.
MASKING	OFF PRESET MEMORY	OFF: Color correction off. PRESET: Standard type color correction. MEMORY: Color correction set at Masking sub-menu.
GAMMA	OFF PRESET MEMORY	OFF: Gamma set to 1. PRESET: Standard type gamma correction MEMORY: Gamma correction set at Gamma sub-menu
INITIALIZE		Simultaneously press the buttons to set items of the Function 1 and DTL menus to initial values as shown in rectangles. There are 4 items per scene file and the present scene file is initialized.

Note: Gain (LOW), (MID), (HIGH): Only in local mode

Function menu screen

1.1 DTL (Scene 1 to 4) sub-menu (corresponds to scene file)

DTL LEVEL	OFF ⇄ -128 ⇄ 0 ⇄ +127	Sets detail amount.
DTL FREQ	SOFT ⇄ STANDARD ⇄ SHARP	SOFT: Set to low detail frequency STANDARD: Set to standard detail frequency SHARP: Set to high detail frequency
FLESH TONE	OFF ⇄ ON	Set to on to moderate flesh tone detail amount. Color setting is at the DTL sub-menu. (Operates only during remote control.)
LEVEL	-128 ⇄ 0 ⇄ +127	Adjusts flesh tone detail amount for a soft image.
AUTO SETUP		Press the button for 1 second to detect the color phase at the center of the image and set to the optimum position.
PHASE	-128 ⇄ 0 ⇄ +97 ⇄ +127	Adjusts color phase to flesh tone. The flesh tone detection range is indicated. (The indication signal is overlapped on the video output. Use care not to operate this function while ON AIR.)
WIDTH	-128 ⇄ 0 ⇄ +127	

2. Function 2 main menu

M.BLACK	-128 ⇄ 0 ⇄ +127	Sets the master black value.
DYNA CHROMA	OFF ⇄ ON	
DNR MODE	MODE1 ⇄ MODE2	
ZEBRA	TYPE: 1 ⇄ 2 LEVEL: LOW ⇄ MID ⇄ HIGH	
CS-1 SW	CONTRAST ⇄ QUICK FOCUS ⇄ FULL AUTO	
CS-2 SW	CONTRAST ⇄ QUICK FOCUS ⇄ FULL AUTO	
MIC SENSE	LOW ⇄ MID ⇄ HIGH	Set according to microphone sensitivity. Normally set to MID.
PHANTOM	OFF ⇄ ON	
F.AUTO SEL		

2-1 Full Auto SEL sub-menu

AES	OFF ⇄ ON	
FAW	OFF ⇄ ON	

Function menu screen

3. VF Display menu

SAFETY/CENT	OFF ⇄ SAFETY ⇄ CENTER ⇄ BOTH	
EXTENDER	OFF ⇄ ON	
UPPER MID	OFF ⇄ ZOOM ⇄ SHUTTER ⇄ REC TIME ⇄ SHT/REC-T	
UPPER RIGHT	OFF ⇄ FOCUS ⇄ BATTERY	
FILTER	OFF ⇄ ON	
WHITE BAL	OFF ⇄ ON	
GAIN	OFF ⇄ ON	
AUDIO IND	OFF ⇄ ON	
IRIS	OFF ⇄ ON	
VF V-DTL	-128 ⇄ 0 ⇄ +127	

4. Special Set menu

MASKING		Change screen to masking sub-menu.
DTL		Change screen to DTL sub-menu.
GAMMA		Change screen to gamma sub-menu.
KNEE/CLIP		Change screen to knee/clip sub-menu.
WHT SHADING		Change screen to white shading sub-menu.
FLARE		Change screen to flare sub-menu.
SYSTEM		Change screen to system sub-menu.
ALL INITIALIZE		

4-1 Masking Memory sub-menu

HUE	-128 ⇄ +127	R: 0, G: 20, B: 0 Y: 0, C: 10, M: 0	6 vector independent masking. Adjust Hue and Saturation independently for red (R), yellow (Y), green (G), cyan (C), blue (B) and magenta (M).
SAT	-128 ⇄ +127	R: 51, G: 46, B: 69 Y: 44, C: 54, M: 73	
LINEAR	-128 ⇄ 0 ⇄ +127		R-G, G-B, B-R, B-G, R-B (linear matrix) Sets linear matrix between respective colors.
MASTER SAT	-128 ⇄ 0 ⇄ +127		
INITIALIZE			Simultaneously press the buttons to initialize masking sub-menu items to values shown in rectangles.

Function menu screen

4-2 DTL sub-menu

LEVEL DEP	-128⇔ -90 ⇔0⇔+127	Dark component detail can be set in the range of -128 to +127.
CRISP	-128⇔ -110 ⇔0⇔+127	Average component detail can be set in the range of -128 to +127.
H/V BAL	-128⇔0⇔ +48 ⇔+127	Adjust balance between horizontal and vertical detail.
SOFT DTL	WHITE LEV -128⇔ -64 ⇔0 ⇔+127	Reduce excess detail signal at strong contrast edges for a softened image.
	BLACK LEV -128⇔ -64 ⇔0 ⇔+127	White and black direction detail signals are separately adjustable.
INITIALIZE		Simultaneously press the ◀ ▶ buttons to initialize DTL sub-menu items to values shown in rectangles.

4-3 Gamma Memory sub-menu

GAMMA TABLE	A ⇔B⇔C	Selects gamma rise inclination. (Special gamma) A: Standard value B: Reduces dark component gradation C: Raises dark component gradation
TOTAL GAMMA	-128⇔ 0 ⇔+127	Gamma correction can be changed from the standard setting.
R ADJUST	-128⇔ 0 ⇔+127	Total, R and B gamma can be finely adjusted.
B ADJUST	-128⇔ 0 ⇔+127	
G.SCALE SETUP		Position the marker on the chart and push the ▶ button for 1 second to automatically execute the gray scale automatic setup.
INITIALIZE		Simultaneously press the ◀ ▶ buttons to initialize Gamma sub-menu items to values shown in rectangles.

Function menu screen

4-4 Knee/clip sub-menu

KNEE POINT	-128⇔0⇔ +60 ⇔+127	Sets the level where knee function begins operating.
KNEE SLOPE	-128⇔0⇔ +60 ⇔+127	Sets knee response slope.
WHITE CLIP	-128⇔ -64 ⇔0⇔+127	Sets the white clip level.
INITIALIZE		Simultaneously press the ◀ ▶ buttons to initialize Knee/clip sub-menu items to values shown in rectangles.

4-5 White shading sub-menu

Corrects vertical white shading due to the lens.

EXTENDER	OFF⇔ON	On is indicated when using a lens provided with an extender (indication only). White shading is set respectively for extender on and off.
AUTO SETUP		Automatic white shading adjustment. Start by adjusting the green channel shading with MANU G ADJ. Next, adjust the auto white by pushing the ◀ button for 1 second. Then, adjust the auto white by pushing the ▶ button for 1 second.
MANU	R ADJ	-128⇔ 0 ⇔+127
	G ADJ	-128⇔ 0 ⇔+127
	B ADJ	-128⇔ 0 ⇔+127
INITIALIZE		Simultaneously press the ◀ ▶ buttons to initialize White Shading sub-menu items to values shown in rectangles.

4-6 Flare sub-menu

R FLARE	-128⇔ 0 ⇔+127	Adjust red signal flare correction.
G FLARE	-128⇔ 0 ⇔+127	Adjust green signal flare correction.
B FLARE	-128⇔ 0 ⇔+127	Adjust blue signal flare correction.
INITIALIZE		Simultaneously press the ◀ ▶ buttons to initialize Flare sub-menu items to values shown in rectangles.

Function menu screen

4-7 System sub-menu

VF DTL CONT	MENU ⇄ AUTO	
VIDEO(VTR)	COMP100% ⇄ COMP75% ⇄ Y/C ⇄ VBS ⇄ RGB Also Auto (when inner module is connected)	Select according to connected VTR. 1.COMPOENT 100%(BETACAM) 1.COMPOENT 75%(M II) 2.Y/C(S-VHS) 4.VBS(U-matic) 5.R,G,B
AUDIO LEVEL	-60dB ⇄ -20dB Also Auto (when inner module is connected)	Set the audio level to -60 or -20 dB according to the combined VTR.
CLOSE LIMIT	Hunting can occur when using an auto iris lens under unusually bright conditions, where the iris is nearly closed. This adjustment avoids the hunting phenomenon. When AES is on, the AES operates when the light is greater than the close limit value. When the cursor is shifted to Close Limit, the lens iris is automatically set to the close limit value. When replacing the lens, set the value to F16.	
IRIS SPEED	-128 ⇄ 0 ⇄ +127	Adjust when using a 6 pin type lens (for a 12 pin type, use adjustment provided with the lens). The auto iris response speed increases toward the + side. Adjust to where hunting does not occur.
REMOTE	62500BPS ⇄ 9600BPS	Select communication rate. 62500BPS: RU-Z1, RC-Z1 and RC-Z11 9600BPS : RU-Z2, RC-Z2A and RC-Z21A
BATT TYPE	12.0V ⇄ 13.2V ⇄ 14.4V	Select from 3 voltages according to battery type.
ALARM SET	BATT TYPE	Alarm operating voltage
	12.0V	10.5V, 11.0V, 11.6V
	13.2V	11.7V, 12.2V, 12.8V
	14.4V	12.9V, 13.4V, 14.0V

Function menu screen

5. BARS Function sub-menu

GL SET	⇨	Execute GL SET sub-menu.
ID SET	⇨	Execute ID IND sub-menu.
TIME/DATE	⇨	Execute TIME/DATE sub-menu.
ID DSP	OFF ⇄ ON	
DATE	OFF ⇄ Y.M.D ⇄ M.D.Y ⇄ D.M.Y	
TIME	OFF ⇄ ON	
AUDIO TONE	OFF ⇄ ON	

5-1 GL SET sub-menu

H. PHASE	-128 ⇄ +127	Adjust horizontal phase during genlock operation.
SC COARSE	0° ⇄ 90° ⇄ 180° ⇄ 270°	Adjust subcarrier coarse during genlock operation.
SC FINE	-128 ⇄ +127	Adjust subcarrier fine during genlock operation.

5-2 ID SET sub-menu

ID No.	3 place alphanumeric code	Set camera identification number and a desired title.
ID DISP	Up to 14 place alphanumeric code	(See page 44.)

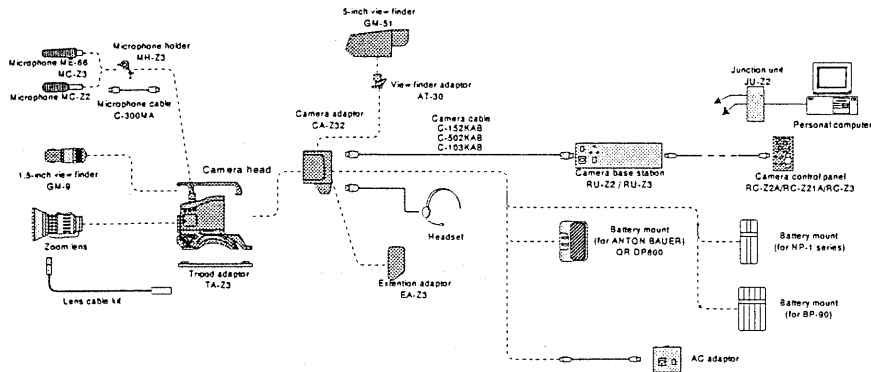
5-3 TIME/DATE sub-menu

YEAR	00 ⇄ . . ⇄ 99	
MONTH	01 ⇄ . . ⇄ 12	
DAY	01 ⇄ . . ⇄ 31	
HOUR	00 ⇄ . . ⇄ 23	
MINUTE	00 ⇄ . . ⇄ 59	
TIME/DATE SET		Simultaneously press the < > buttons to activate the time and date setting

Studio system operation

Connection with RU-Z2/RU-Z3 system

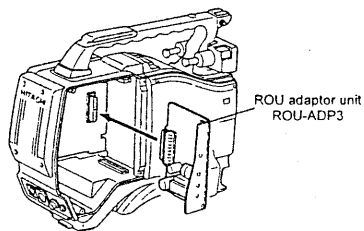
The camera can be connected into a system comprising an RU-Z2/Z3 camera base station and RC-Z2A / Z21A/Z3 camera control panel to enable remote operation of the camera control functions. The camera and RU-Z2/Z3 can be separated by up to 300 meters, while a 5-inch viewfinder can be used in place of the 1.5-inch viewfinder.



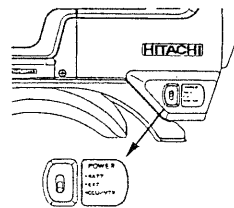
Refer to the RU-Z2/Z3 Camera Base Station and RC-Z2A/Z21A/Z3 operation manual for detailed operating instructions.

ROU adaptor unit

When connecting the RU-Z2/RU-Z3, install the RU-Z2/Z3 accessory ROU adaptor unit in CA-Z32 camera adaptor as indicated in the figure.



Set the power select switch to CCU / VTR.



Note: The unit is not interchangeable with the ROU-ADP2 for the CA-Z31.

Power select switch setting

Studio system operation

Camera control from personal computer

The camera can be controlled by RS-232C signals from a personal computer. In this case, the JU-C20 RS-232C Level Converter or the JU-Z2 Junction Unit is required.

Since camera control software is not supplied, refer to the protocol technical data and compile a suitable program according to the computer being used.

Technical data are available regarding the software protocol for controlling the camera. Please consult a Hitachi Denshi representative.

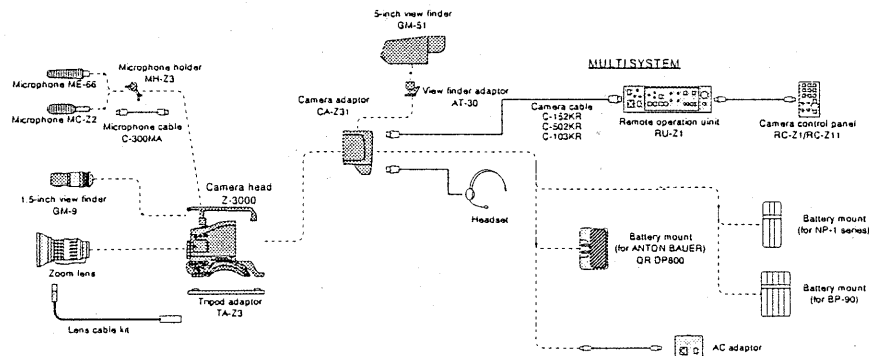
Technical data

- 1) Remote control protocol
- 2) Z-3000 remote control command list

Studio system operation

Connection with Ru-Z1 system

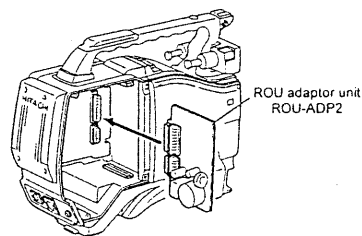
The camera can be connected into a studio system comprising an RU-Z1 remote operation unit and RC-Z1A / Z11 camera control panel to enable remote operation of the camera control functions. The camera and RU-Z1 can be separated by up to 300 meters, while a 5-inch viewfinder.



Refer to the RU-Z1 Remote Operation Unit and RC-Z1A / Z11A operation manuals for detailed operating instructions.

ROU adaptor unit

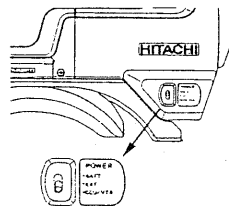
When connecting the RU-Z1, install the RU-Z1 accessory ROU adaptor unit in the CA-Z31 camera adaptor as indicated in the figure.



Note: The unit is not interchangeable with the ROU-sADP3 for the CA-Z32

POWER select switch setting

Set the power select switch to CCU / VTR.



Studio system operation

Auto setting with RU-Z2A / RU-Z1A (plug & play)s

No	System	Baud rate	Audio level	Video output	Battery type
1	RU-Z1	62.5K(*1)	-20db(*1)	RGB COMP YC, VBS (*2)	12.0V(*1) (*3)
2	RU-Z2	9600(*1)			
3	Self-contained inner module operation M-Z3B (Betacam)	62.5K, 9600	AUTO(*4)	AUTO(*4)	12.0V 13.2V 14.4V
	M-Z3P (DVCPRO)				
	IM-Z3S (BetaPRO) IM-Z3J (Digital-S)				
4	Self-contained Camera adaptor operation CA-Z31/32 (portable VTR)	62.5K 9600	-60dB -20dB	COMP YC, VBS, RGB	

Notes:

- When RU-Z1/Z2 (RC-Z1/Z2A) remote control is off, although settings can be changed at the camera head full menu, the initial settings are returned at resupply of power.
- When RU-Z1/Z2 (RC-Z1/Z2A) remote control is off, settings can be changed at the camera head full menu. Settings are stored as common setting values in the RU-Z1/Z2 (RC-Z1/Z2A) memory.
- With RU-Z1/Z2A, Alarm Set is fixed at 11.0 V.
- When Auto is indicated, settings are automatic at the inner module.

RU-Z2(RU-Z1)RGB connector signal output

The signals indicated in the table can be selected for output from the RU-Z2(RU-Z1)RGB connector.

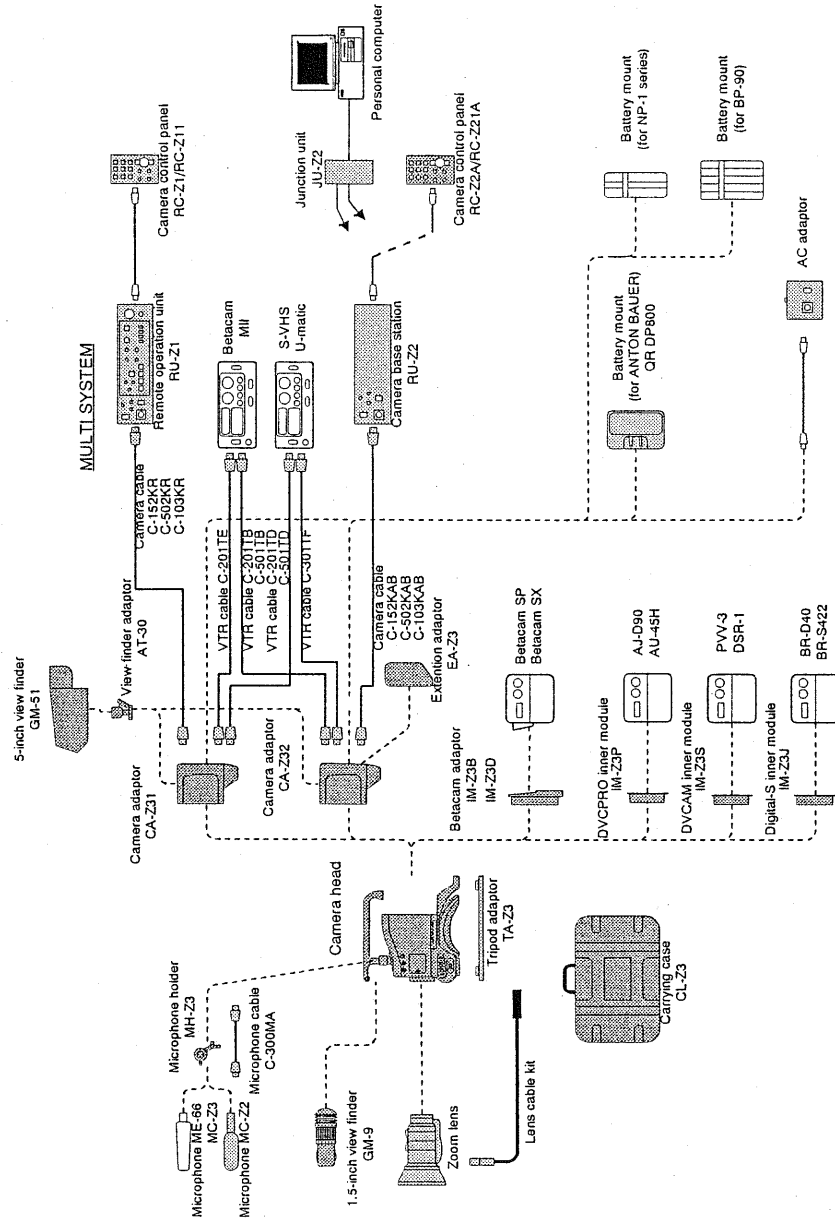
- Set the RC-Z2A / Z21A(RC-Z1 / Z11) remote control switch to off. Control shifts from the RC to the camera.
- Select the SYSTEM sub-menu from the Function menu, then select the output signal at the VIDEO <VTR> item.

connector	Output signal			
	RGB	Component	Y / C	VBS
R	R	R-Y	C	-
G	G	Y	Y	VBS
B	B	B-Y	-	-

SYSTEM	:18:9
ASPECT	:MENU
VF DTL CONT	:MENU
VIDEO (VTR)	:COMP
AUDIO LEVEL	:-80dB
CLOSE LIMIT	:
IRIS SPEED	:0
REMOTE	:9600BPS
BATT TYPE	:12V
ALARM SET	:11.5V

Note: When the RGB connector output is other than RGB, the RU-Z2 waveform monitor (WFM OUT) display does not operate correctly.

System configuration

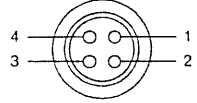


Service information

Connector pin diagrams

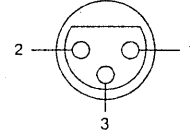
Camera

Remote (4 pin female)



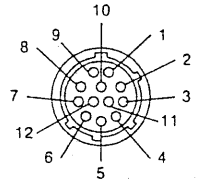
Pin	Signal
1	+9V output
2	SD input
3	SD output
4	SD ground

MIC IN (3 pin female)



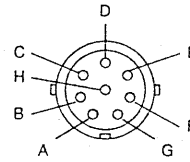
Pin	Signal
1	MIC GND
2	MIC(H) IN
3	MIC(C) IN

LENS (12 pin female)



Pin	Signal
1	AUX SW
2	CALL TRG
3	GND
4	ENF AUTO
5	IRIS CONTROL
6	+12V
7	IRIS POSITION
8	NC
9	NC
10	NC
11	NC
12	NC

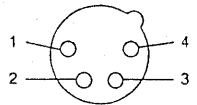
VF (8 pin male)



Pin	Signal
A	B LED(C)
B	I LED
C	VF 9V
D	+12V
E	S LED
F	VF VIDEO(Y)
G	GND
H	T LED

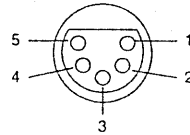
Camera adaptor (CA-Z31/CA-Z32)

DC IN (4 pin male)



Pin	Signal
1	GND
2	NC
3	NC
4	+12V input

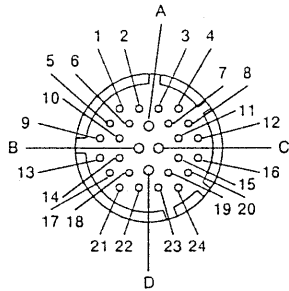
INTERCOM (5 pin male)



Pin	Signal
1	SHIELD
2	T
3	GND
4	R
5	R

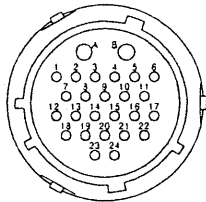
Service information

CCU/VTR (28 pin male) <CA-Z31>



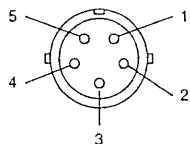
Pin	Signal	Pin	Signal
A	+12V	11	COLOR FRAME
B	+40V	12	VBS VIDEO
C	SHIELD GND	13	VTR SAVE
D	POWER GND	14	BATT ALM
1	GL GND	15	SD GND
2	GL	16	VBS GND
3	R.G.B GND	17	INCOM L1
4	R/R-Y/C	18	CALL/TRIG
5	VTR TRG	19	SYNC CHR
6	REC/TALLY	20	AUX GND
7	G/Y/VBS	21	SYNC CHR GND
8	B/B-Y	22	INCOM L2
9	AUDIO(+)	23	SD
10	AUDIO(-)	24	AUX VIDEO

CCU/VTR (26 pin male) <CA-Z32>



Pin	Signal	Pin	Signal
A	+150V/+12V	12	PROMPT GND
B	POWER GND	13	PROMPT VIDEO
1	VBS	14	INTER LOCK
2	VBS GND	15	INCOM2
3	G/Y/VBS GND	16	GL
4	G/Y/VBS	17	INCOM GND
5	R/R-Y/C	18	AUX VIDEO
6	R/R-Y/C GND	19	AUX GND
7	B/B-Y	20	INCOM1
8	B/B-Y GND	21	GL GND
9	MIC(H)	22	SD2
10	MIC(C)	23	SD1
11	MIC GND	24	SD GND

150 V OUT (5 pin male) <CA-Z32>



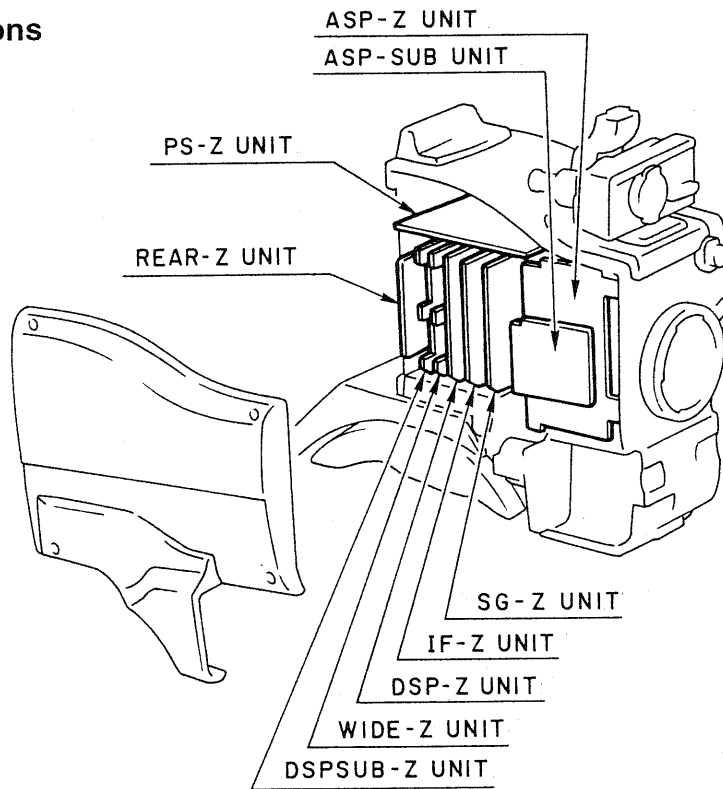
Pin	Signal
1	NC
2	RLY CONT
3	RLY CONT GND
4	+150V OUT
5	0V

DISASSEMBLY

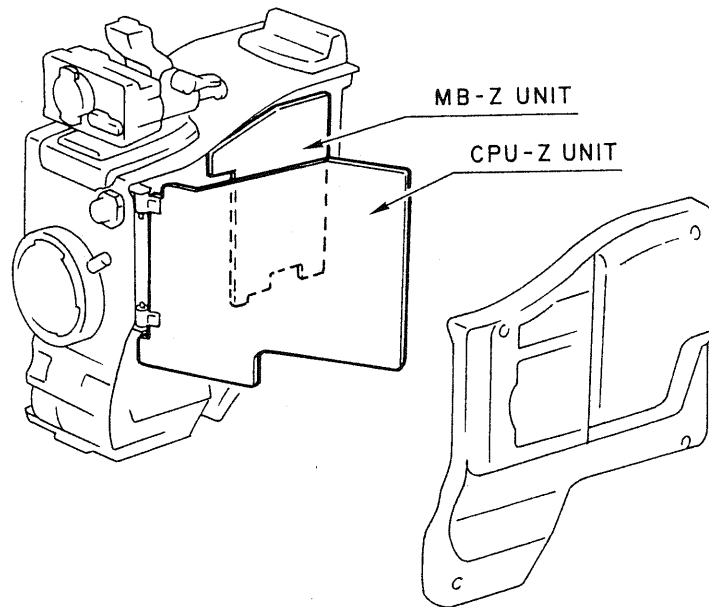
1. Board Locations	3-1
2. CCD block and unit indications	3-2
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DISASSEMBLY

1. Board Locations



LEFT SIDE



RIGHT SIDE

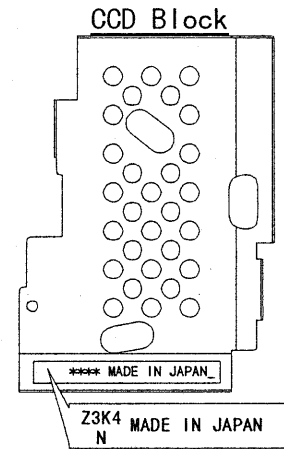
2. CCD block and unit indications

1. CCD block

As shows in the figure , a label corresponding to the model name is applied to the CCD block shield case.

Relation between the model name and label indication is shown in the table below.

Item	Model name			
	NTSC16:9/4:3	NTSC 4:3	PAL 16:9/4:3	PAL 4:3
Label indication	Z3KW N	Z3K4 N	S3KW P	Z3K5 P



2. Unit

A label bearing the model name is applied to each unit .

The table below indicates the relation between model name and label indication.

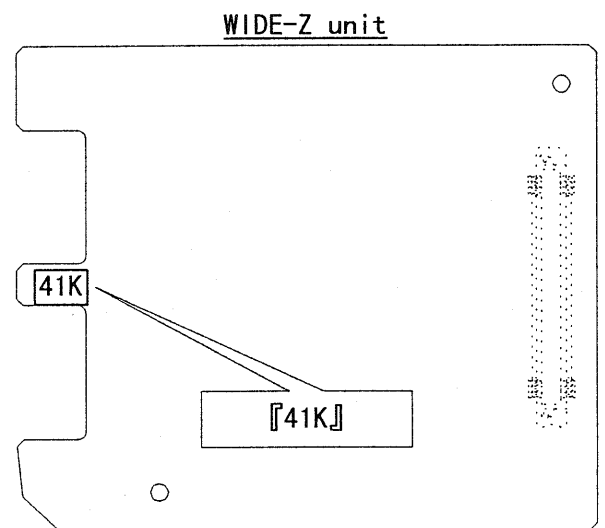
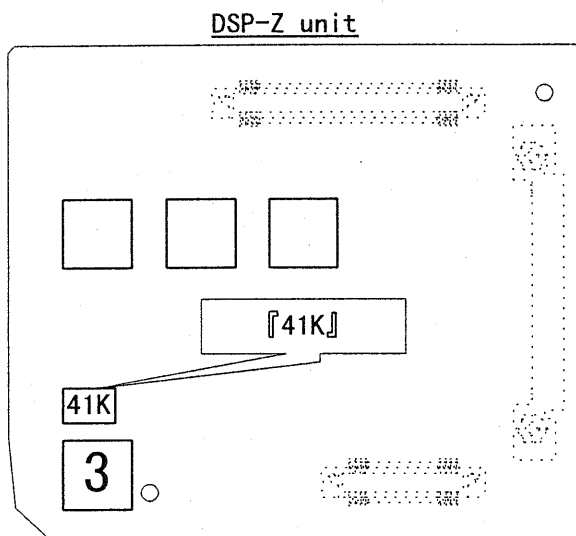
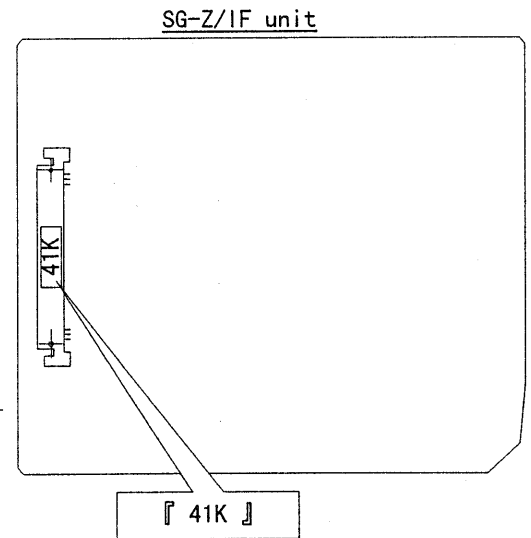
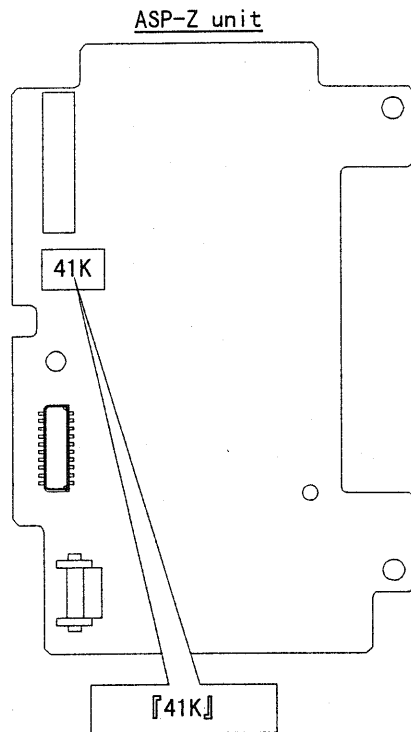
Unit	Model name					
	NTSC16:9/4:3	NTSC 4:3	PAL 16:9/4:3		PAL 4:3	
ASP-Z	no indication	41K	54KW		57K	
SG-Z						
IF-Z						
DSP-Z						
WIDE-Z						
MB-Z						
PS-Z						
CPU-Z	no indication	41K	S3KW	V21W	S3K	V21
MIC-Z	no indication					
REAR-Z						
CARD-Z						
BNC						
LENZ						
SW-1,SW-2						
FRT-1,FRT-2						
MIC-CN						

3. The label position of each unit

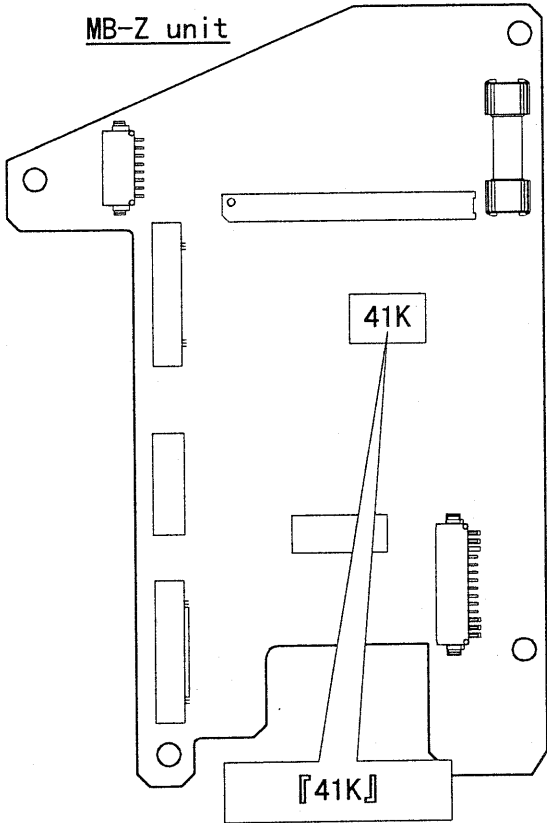
A label bearing the model name is applied to each unit.

The label location for each unit is indicated as follows

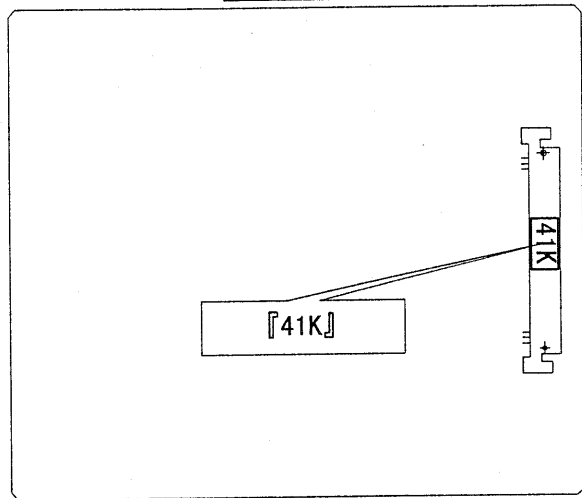
(examples are shown for the NTSC 4:3 Camera.)



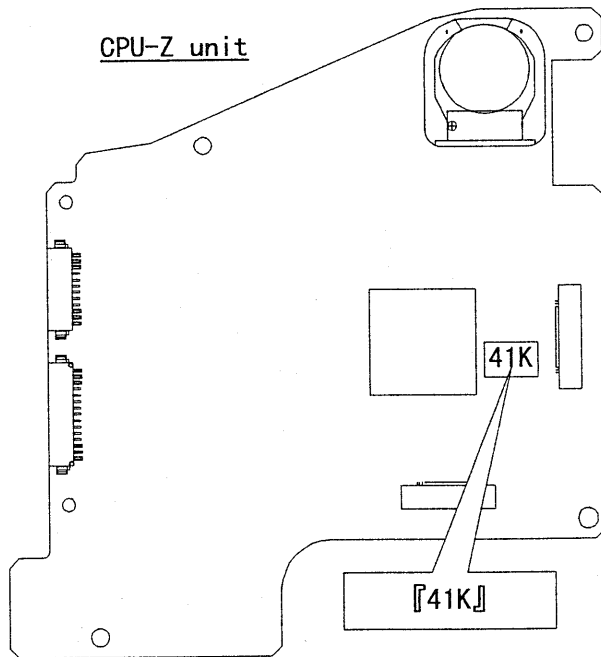
MB-Z unit



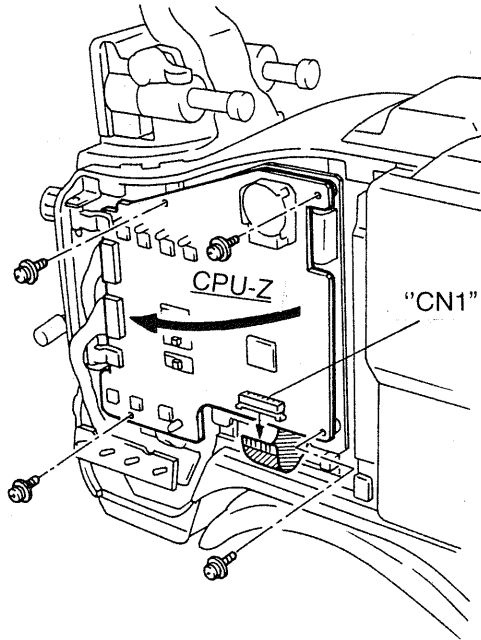
PS-Z unit



CPU-Z unit

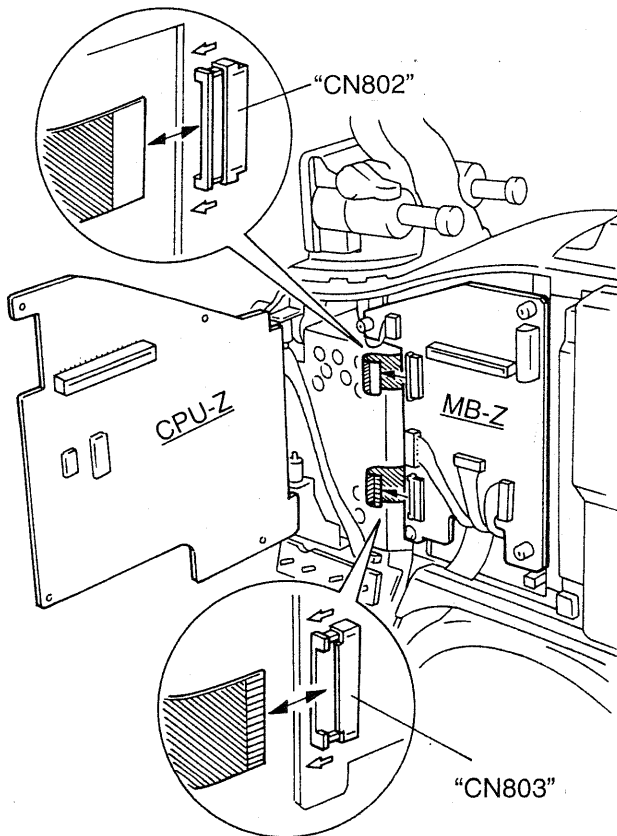


3. Prism block removal

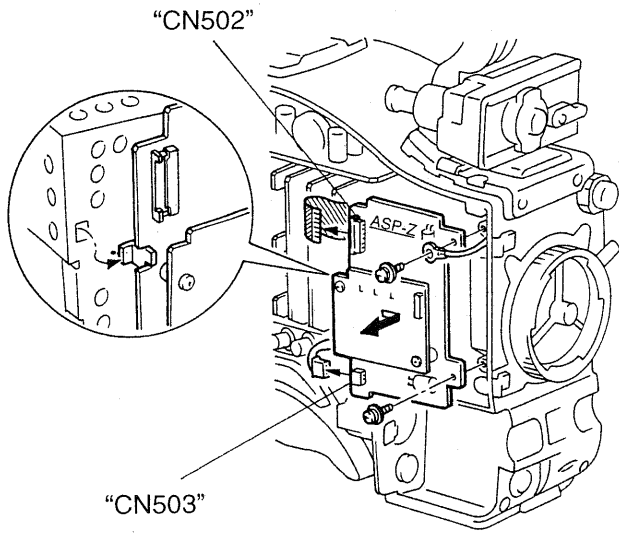


- 1) Talk out 4 screws securing the CPU-Z unit.
- 2) Release the connector CN1 lock and disengage the flexible cable.
- 3) Open the CPU-Z unit outward as indicated by the arrow.

Note: The CPU-Z unit is attached by connector to the MB-Z unit.

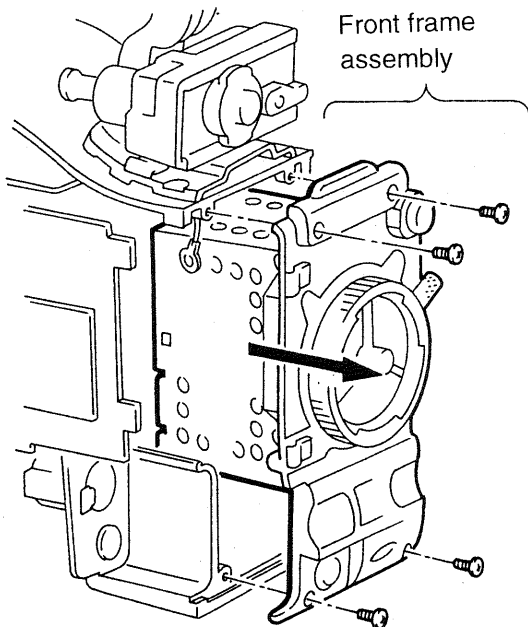


- 4) Release the connector CN802 and CN803 locks and disengage the flexible cables.

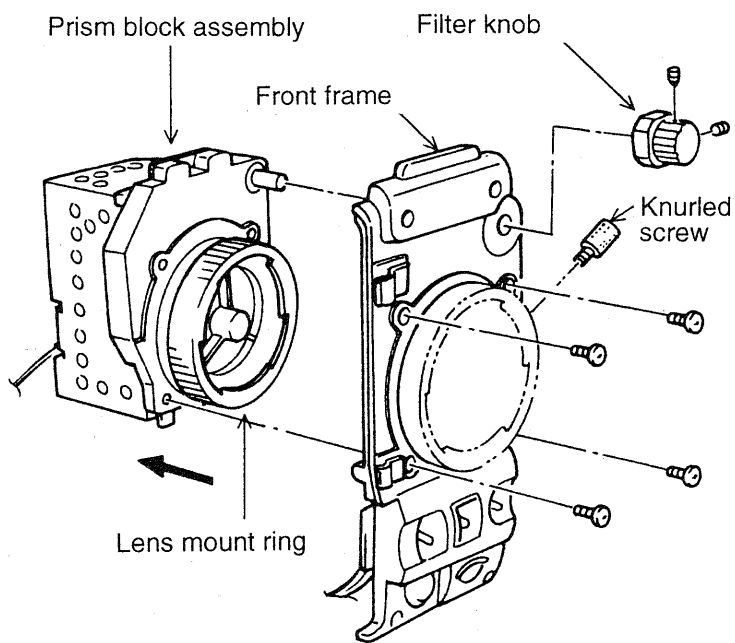


- 5) Release the connector CN502 lock and disengage the flexible cable.
- 6) Disconnect the CN503 lead connector.
- 7) Take out 2 screws and separate the ASP-Z unit from the camera.

Note: Use care since part of the ASP-Z unit is engaged with the prism block shield case.



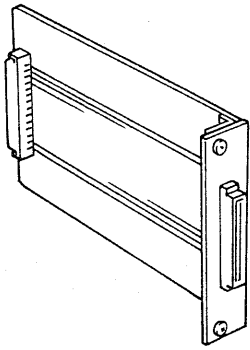
- 8) Take out 4 screws securing the front frame and pull out the front frame assembly.



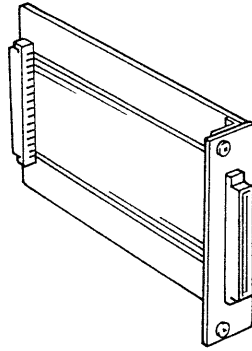
- 9) Remove the knurled screw from the lens mount ring.
- 10) Use a hex wrench to take out the screws of the filter knob.
- 11) Take out 4 screws and separate the prism block assembly from the front frame.

4. Unit removal and extension

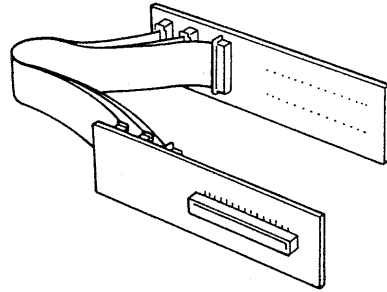
EXT-Z3K extension board set (option)



EXT-70



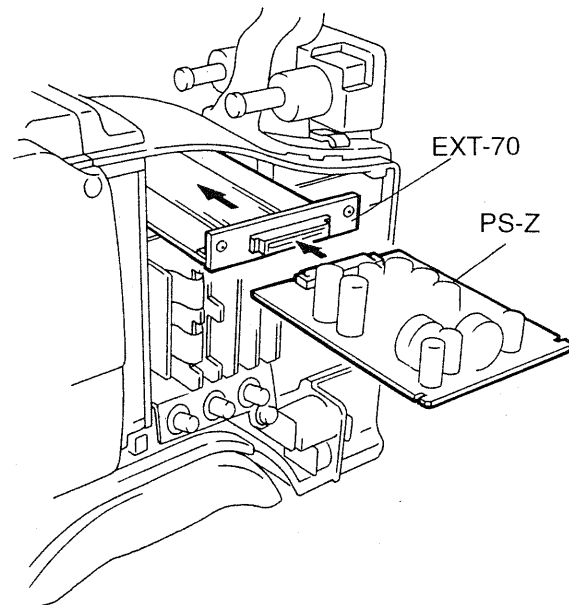
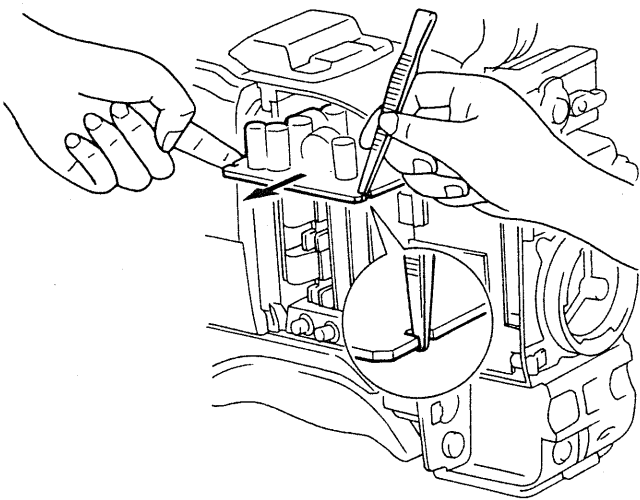
EXT-80



EXT-CPU

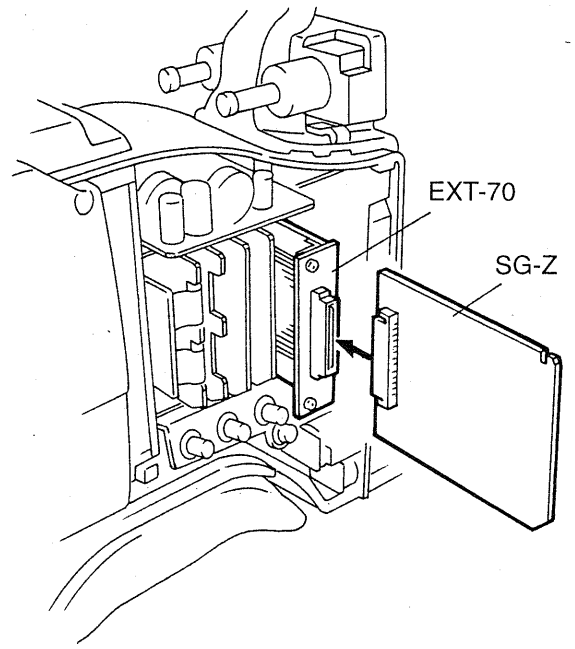
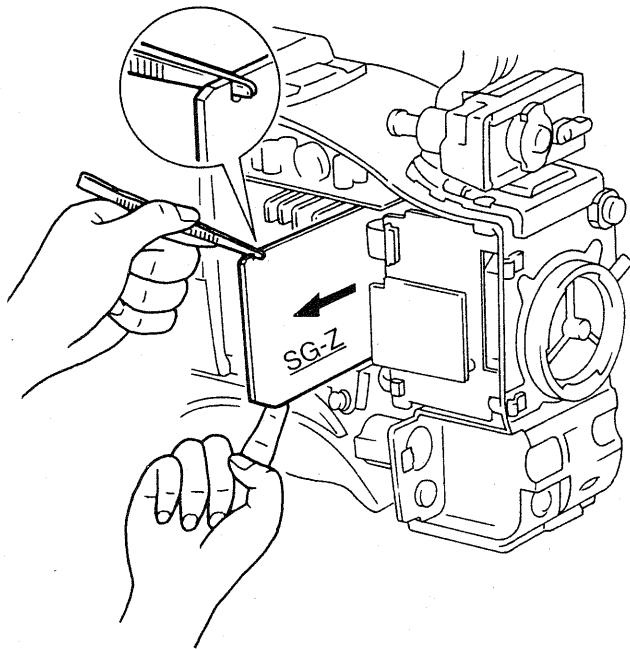
Please use the Part Code 24244AX when ordering the EXT-Z3K.

PS-Z unit

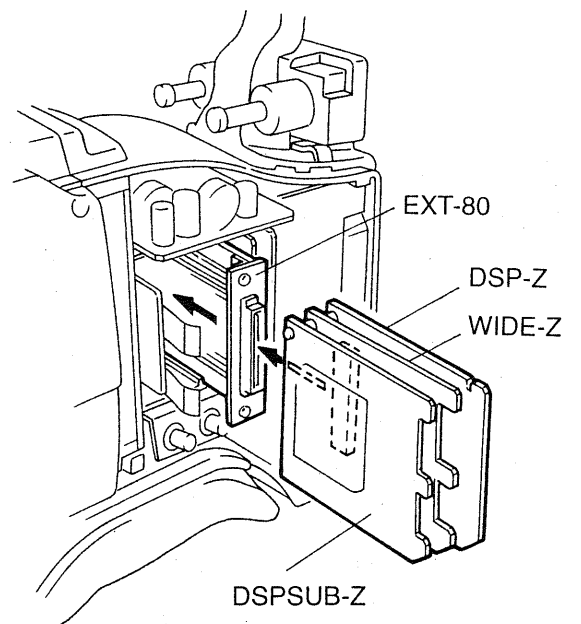
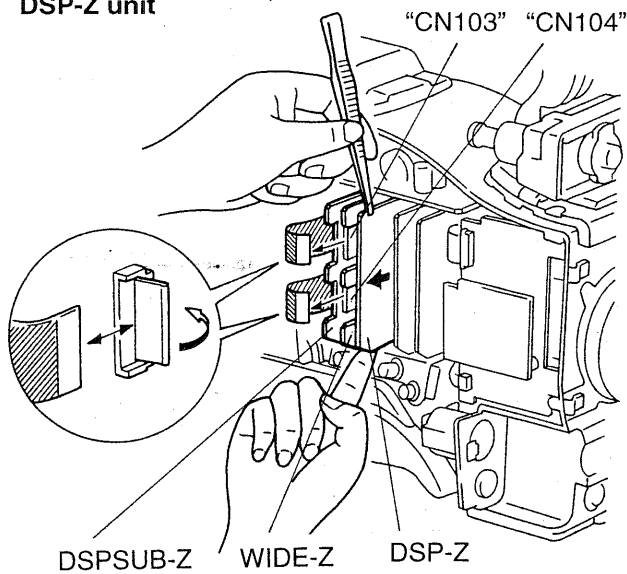


Engage tweezers or similar tool with the notch of the unit when removing.

SG-Z and IF-Z units

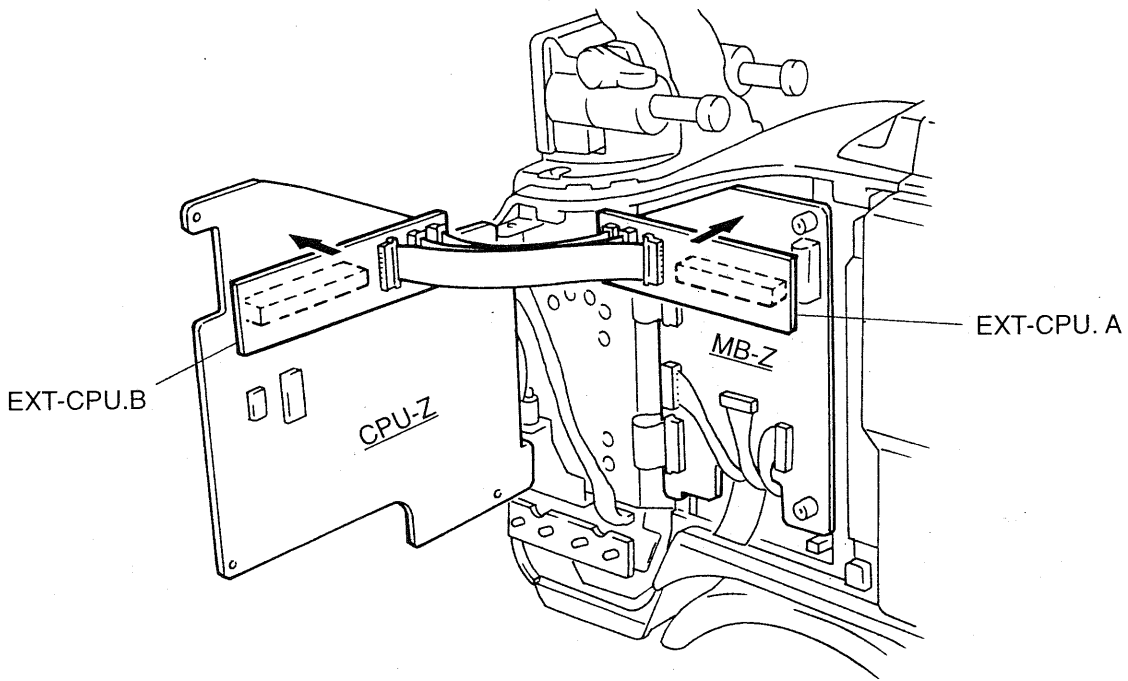


DSP-Z unit



The DS-Z, WIDE-Z and DPSUB-Z units are joined by connectors into a single block. When removing, first release the locks of the DPSUB-Z unit connectors CN103 and CN104 and disengage the flexible cables. Use tweezers or a similar tool to engage the DSP-Z unit notch when removing.

CPU-Z unit



ATTACHING BATTERY MOUNT

An Anton-Bauer battery mount can be attached to the rear of the CA-Z31/CA-Z32 camera adapter.

Note:

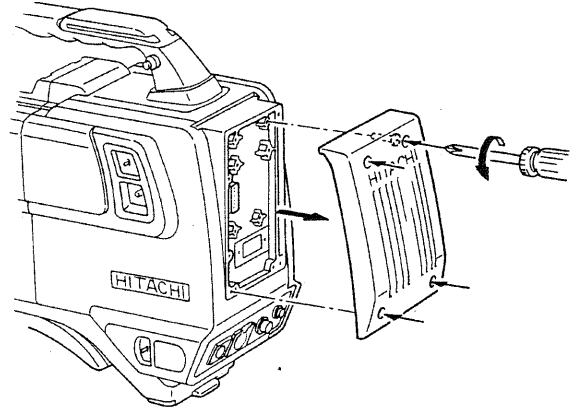
The battery mount and connecting cable assemblies are separately sold.

Please order these by the following part codes.

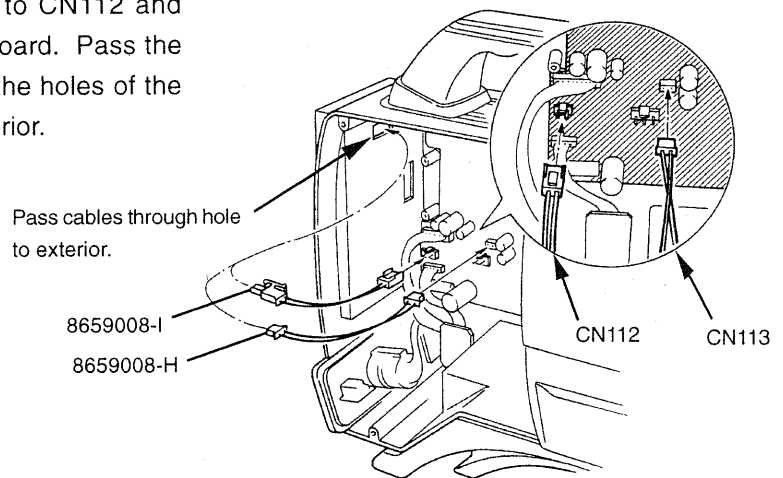
Battery mount	8644432	[QR-DP800]
Cable assembly	8659008-H	[8659008-H]
Cable assembly	8659008-I	[8659008-I]

Procedure:

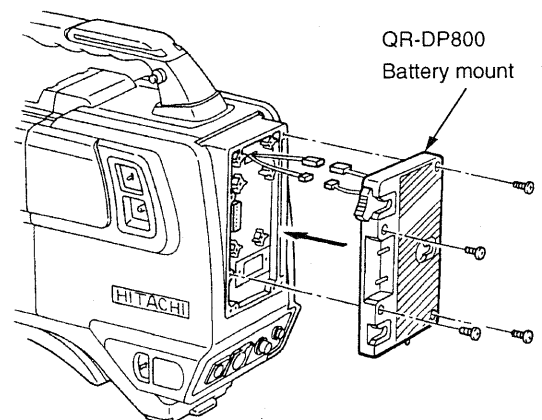
Take out 4 screws and remove the rear cover.



Connect the two cable assemblies to CN112 and CN113 of the camera adapter Main board. Pass the opposite ends of the cables through the holes of the rear of the camera adapter to the exterior.



Connect the cable assemblies to the battery mount leads. While using care not to pinch the cables, attach the battery mount to the camera adapter with 4 screws.



ADJUSTMENT

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4. ADJUSTMENTS

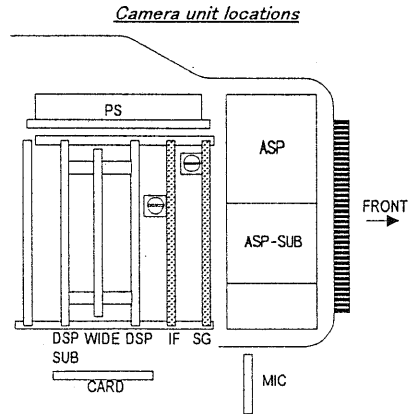
1. Standard pickup conditions

Item	Step	Description	Spec	Remarks	
1	Standard pickup conditions	1) Scene illumination 2) Color temperature 3) Lens 4) Lens iris 5) Power supply 6) Ambient 7) Monitor 8) Test charts 9) Filter disk 10) Gain switch 11) Shutter switch 12) Scene switch 13) Ultra gain switch 14) DNR switch 15) Flesh tone switch 16) Function menu screen	2000 lux 3200 Kelvin A16×9BRM-27 (Fujinon) A19×8.7BRM-24 (Fujinon) YJ18×9BKRS (Canon) F11 - 1/3 (reflectivity 89.9 % log) AP-60B, IA-60a or regulated 12 V power supply 20 ± 10 °C, 45 to 85 % RH Set to standard mode Greyscale (reflectivity 89.9 % log) Color bar Registration Megacycles 1 (3200 K) Off Off 1 Off Off Off Press All initialize of the Special set menu		

Note: During the adjust mode (CPU Adjust mode switch on), items on the menu screen are automatically set by CPU control signals and setting of items 10 to 16 is unnecessary.

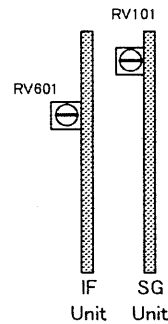
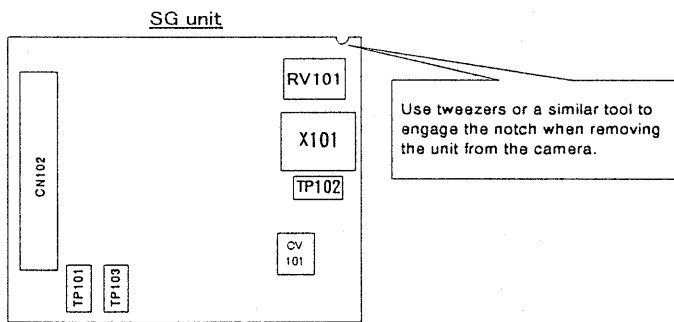
2. SG and IF units

Take out 4 screws and remove the camera right side panel.
The units indicated in the figure are visible.



2-1 SG unit adjustment

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
1	Subcarrier frequency	SG unit RV101	SG unit TP103	Use tweezers to engage the notch at the upper portion of the SG unit and pull out the unit. Attach a 70 pin extender board and install in camera.	Adjust RV101 for specified SC frequency at TP301. NTSC: 3579545 ± 2 Hz PAL : 4433619 ± 2 Hz	
2	Phase locked loop voltage	SG unit CV101	SG unit TP102		Adjust CV101 for specified PLL voltage at TP103 NTSC and PAL: 2.5 ± 0.2 V	



2-2 IF unit adjustment


Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
3	Sync level	IF unit RV601	Video Out (right side of camera)	Connect an oscilloscope or waveform monitor to video out and terminate at 75Ω .	Adjust IF unit RV601 for the specified sync level. NTSC: 40 ± 2 IRE PAL : 300 ± 15 mVp-p	See Note



Note: The component Y and Y/C sync level is fixed.

3. Adjust screen settings and checks

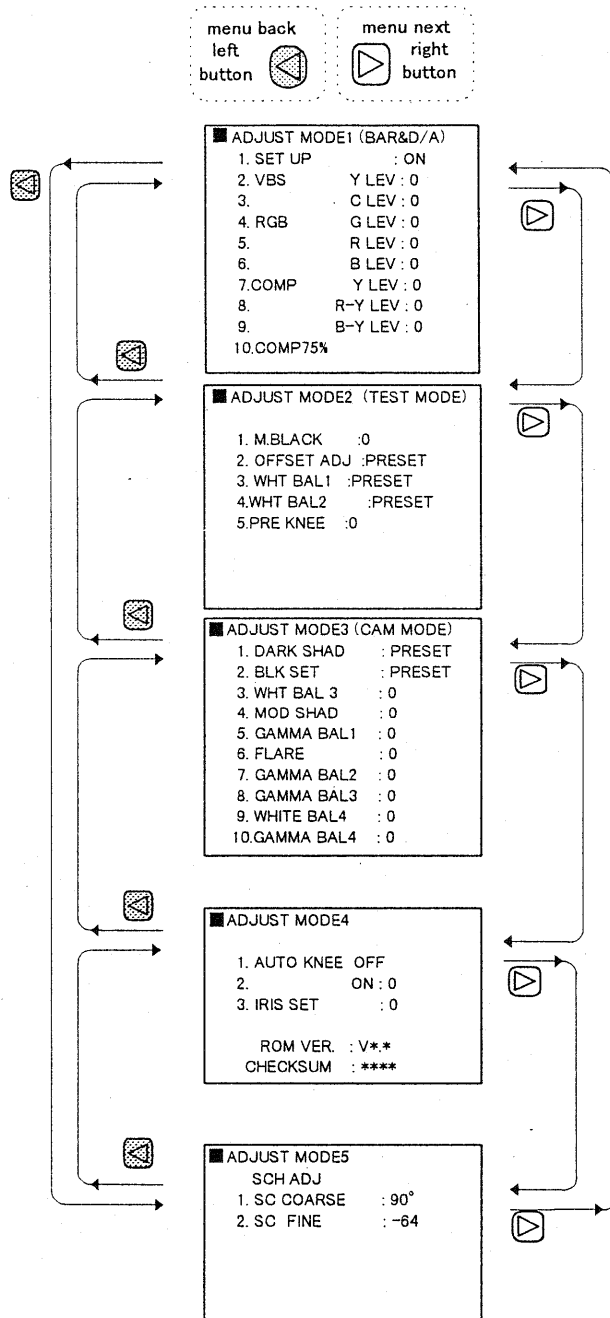
3-1 Adjust screen use

Set the CPU unit Adjust switch (SW15) to On to produce a color bar (16:9) output and display the adjust mode 1 menu. Set the switch to Off to extinguish the menu screen.

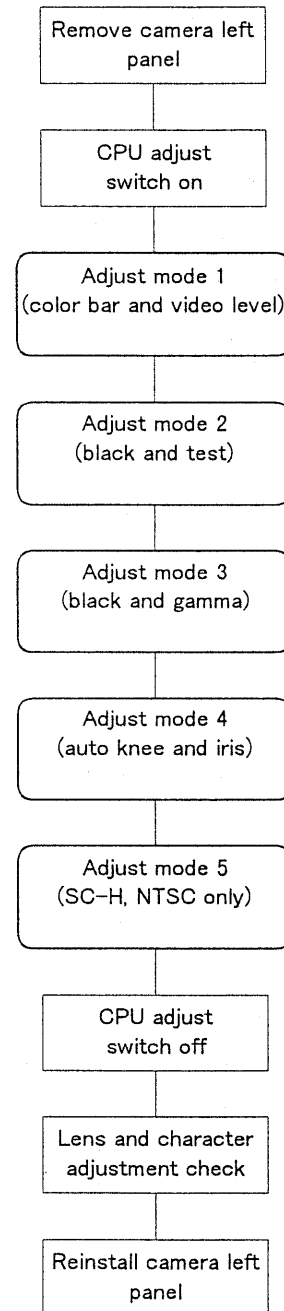
While the adjust mode title is displayed, Set the flashing cursor to the adjust mode 1 line and press the  button once to shift to adjust mode 2.

Use the  and  buttons to shift among adjust modes 1 to 5.

Adjust menu selection

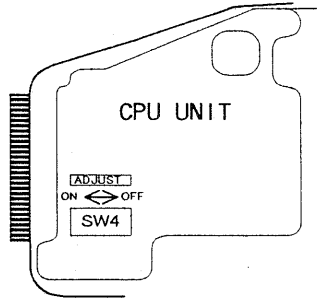


Adjustment flowchart




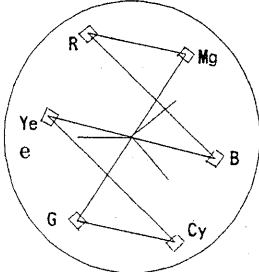
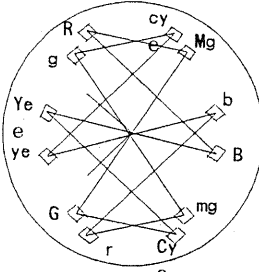


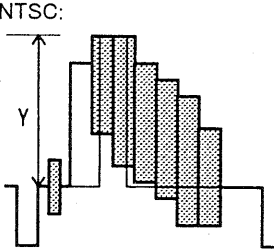
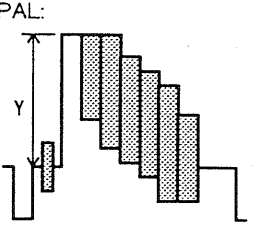



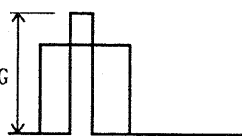
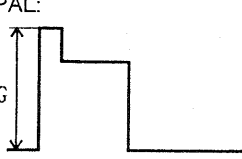
3-2 Adjust mode 1 (color bar and video level)

Remove the camera left side panel. Set the CPU unit Adjust switch (SW15) to On to produce a color bar (16:9) output and display the adjust mode 1 menu.




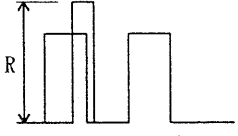
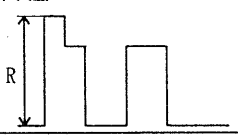



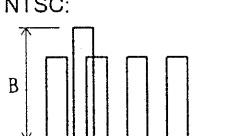
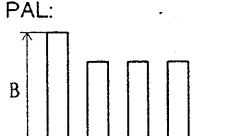



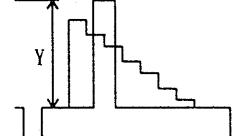
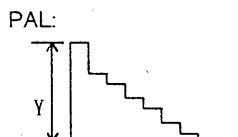





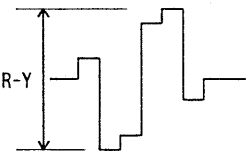



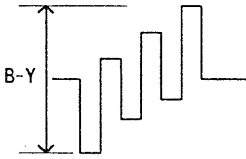

■ ADJUST MODE1 (BAR&D/A)	
1. SET UP	: ON
2. VBS	Y LEV : 0
3.	C LEV : 0
4. RGB	G LEV : 0
5.	R LEV : 0
6.	B LEV : 0
7.COMP	Y LEV : 0
8.	R-Y LEV : 0
9.	B-Y LEV : 0
10.COMP75%	

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(1)	Setup (7.5 IRE)		Video out (camera right side)	Connect oscilloscope or waveform monitor to Video Out, terminate at 75 Ω. Press the button to shift the cursor to 1. setup.	Press the and buttons for setup on/off. On : NTSC (U models) Off : NTSC (J models) Off : PAL (E/K models)	
(2)	VBS Y level		Video out (camera right side)	Press the button to shift the cursor to 2. Y LEV.	Press the and buttons to change the Y level setting and adjust the VBS out level. NTSC: 100 ± 2 IRE PAL : 700 ± 20 mVp-p NTSC: PAL: 	

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(3)	VBS color level (burst and chroma)		Video out (camera right side)	<p>Press the  button to shift the cursor to 3. C LEV. After adjusting, check that the color vector marker points are within their respective boxes on the vectorscope.</p> <p>(For U models, adjust the vectorscope gain.)</p> <p>Specification is $\pm 2\%$.</p> <p>NTSC:</p>  <p>PAL:</p> 	<p>Press the  and  buttons to change the C LEV setting and adjust the color level.</p> <p>The yellow signal peak is as follows.</p> <p>NTSC: 100 ± 2 IRE PAL: 700 ± 20 mVp-p</p> <p>NTSC:</p>  <p>PAL:</p> 	See note
(4)	RGB green level		<p>CA-Z31: 28 pin connector pins 7 and 3</p> <p>CA-Z32: 26 pin connector pins 4 and 3</p>	<p>Connect oscilloscope or waveform monitor to the camera adapter RGB out, terminate at 75Ω.</p> <p>Press the  button to shift the cursor to 4. G LEV.</p>	<p>Press the  and  buttons to change the G level setting and adjust the G out level.</p> <p>NTSC and PAL: 700 ± 20 mVp-p</p> <p>NTSC:</p>  <p>PAL:</p> 	

Note: VBS color level adjustment also adjusts the burst level. The burst level cannot be adjusted independently.


Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(5)	RGB red level		CA-Z31: 28 pin connector pins 4 and 3 CA-Z32: 26 pin connector pins 5 and 6	Press the  button to shift the cursor to 5. R LEV.	Press the  and  buttons to change the R level setting and adjust the R out level. NTSC and PAL: $700 \pm 20 \text{ mVp-p}$ NTSC:  PAL: 	
(6)	RGB blue level		CA-Z31: 28 pin connector pins 8 and 3 CA-Z32: 26 pin connector pins 7 and 8	Press the  button to shift the cursor to 6. B LEV.	Press the  and  buttons to change the B level setting and adjust the B out level. NTSC and PAL: $700 \pm 20 \text{ mVp-p}$ NTSC:  PAL: 	
(7)	component luminance level		CA-Z31: 28 pin connector pins 7 and 3 CA-Z32: 26 pin connector pins 4 and 3	Press the  button to shift the cursor to 7. Y LEV.	Press the  and  buttons to change the Y level setting and adjust the Y out level. NTSC and PAL: $700 \pm 20 \text{ mVp-p}$ NTSC:  PAL: 	


Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(8)	Component R-Y level		CA-Z31: 28 pin connector pins 4 and 3 CA-Z32: 26 pin connector pins 5 and 6	Press the  button to shift the cursor to 8. R-Y LEV.	Press the  and  buttons to change the R-Y level setting and adjust the R-Y level. NTSC: 700 ± 20 mVp-p PAL: 525 ± 20 mVp-p 	NTSC: β-CAM mode
(9)	Component B-Y level		CA-Z31: 28 pin connector pins 8 and 3 CA-Z32: 26 pin connector pins 7 and 8	Press the  button to shift the cursor to 9. B-Y LEV.	Press the  and  buttons to change the B-Y level setting and adjust the B-Y level. NTSC: 700 ± 20 mVp-p PAL: 525 ± 20 mVp-p 	NTSC: M II mode
(10)	Component 75 % (NTSC only)		Same as above Steps 8 and 9	Press the  button to shift the cursor to 10. COMP 75%.	NTSC: 525 ± 20 mVp-p Check only, not an adjustment	NTSC only






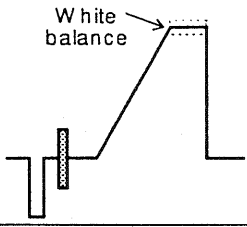

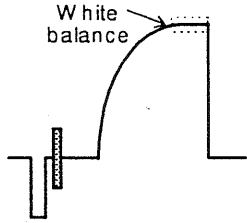
3-3 Adjust mode 2 (test mode)




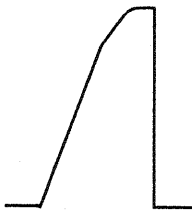
■ ADJUST MODE2 (TEST MODE)

1. M.BLACK :0
2. OFFSET ADJ :PRESET
3. WHT BAL1 :PRESET
- 4.WHT BAL2 :PRESET
- 5.PRE KNEE :0

At Adjust mode 1, press the  button to shift the cursor to 10. COMP 75%.


Then press the  button to change to the Adjust mode 2 screen.


Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(1)	Master black		Video out (camera right side)	Press the  button to shift the cursor to 1. M.BLACK.	Press the  and  buttons to change the M. BLACK level setting and adjust the master black level. 10 ± 1 IRE: NTSC (U models) 5 ± 1 IRE: NTSC (J models) 20 ± 3 mV : PAL (E/K models)	
(2)	Offset		Video out (camera right side)	Press the  button to shift the cursor to 2. OFFSET ADJ.	Press the Auto Black button for automatic adjustment and wait for OK indication.	
(3)	White balance 1 (linear)		Video out (camera right side)	Press the  button to shift the cursor to 3. WHT BAL 1.	Press the Auto White button for automatic adjustment and wait for OK indication. White balance is attained when the signal reaches 100 % of the rated level. 	
(4)	White balance 2 (gamma)		Video out (camera right side)	Press the  button to shift the cursor to 4. WHT BAL 2.	Press the Auto White button for automatic white balance adjustment and wait for OK indication. White balance is attained when the signal reaches 100 % of the rated level. 	

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(5)	Pre-knee		Video out (camera right side)	Press the  button to shift the cursor to 5. PRE KNEE.	Press the  and  buttons to set the pre-knee to -50. 	



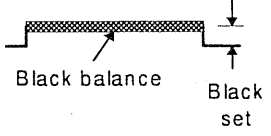

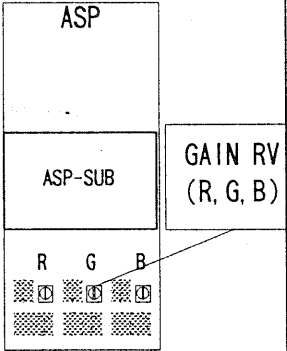


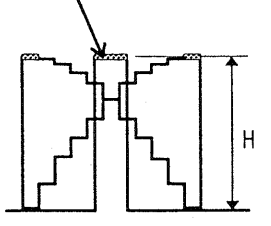
3-4 Adjust mode 3 (black and gamma)




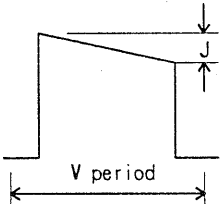



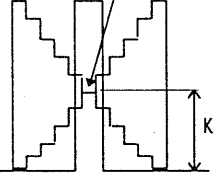
The camera: Z-3000W (The CPU software is before "Ver1.8".)


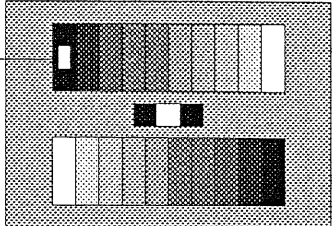



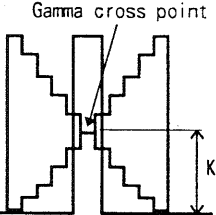
At Adjust mode 2, press the  button to shift the cursor to 5. PRE KNEE.




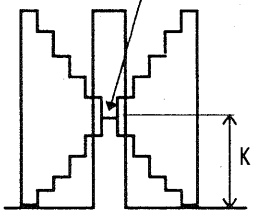



Then press the  button to change to the Adjust mode 3 screen.




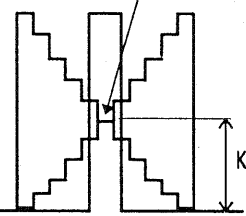
■ ADJUST MODE3 (CAM MODE)	
1. DARK SHAD	: PRESET
2. BLK SET	: PRESET
3. WHT BAL 3	: 0
4. MOD SHAD	: 0
5. GAMMA BAL1	: 0
6. FLARE	: 0
7. GAMMA BAL2	: 0
8. GAMMA BAL3	: 0
9. WHITE BAL4	: 0
10. GAMMA BAL4	: 0

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(1)	Dark shading		Video out (camera right side)	Press the  button to shift the cursor to 1. DARK SHAD.	Press the Auto Black button for automatic adjustment and wait for OK indication.	
(2)	Black set		Video out (camera right side)	Press the  button to shift the cursor to 2. BLACK SET.	<p>Press the Auto Black button for automatic adjustment.</p>  <p>Repeat Steps 1 and 2, then proceed to Step 3.</p>	
(3)	White balance 3	ASP unit RV501 (R gain), RV502 (G gain), RV503 (B gain)	Video out (camera right side)	<p>Press the  button to shift the cursor to 3. WHT BAL 3.</p> 	<p>Press the  and  buttons to change the settings and adjust the black level.</p> <p>10 ±1 IRE: NTSC (U models) 5 ±1 IRE: NTSC (J models) 20 ±3 mV: PAL (E/K models)</p> <p>Pickup a gray scale at 3200 K, 2000 lux, F11-1/3 and adjust the white level to H.</p> <p>100 ±2 IRE: NTSC 700 ±15 mVp-p: PAL</p> <p>White balance: 7 mVp-p</p>  <p>Repeat Steps 2 and 3, then proceed to Step 4.</p>	

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(4)	Modulation shading		<p>CA-Z31: 28 pin connector pins 7 and 3</p> <p>CA-Z32: 26 pin connector pins 4 and 3</p> <p>Video out (camera right side)</p>	<p>Press the  button to shift the cursor to 4. MOD SHAD (gamma goes to off).</p> <p>Pickup a uniformly illuminated white chart and set G out to 80 IRE.</p>	<p>Press the  and  buttons to adjust the G out modulation shading.</p> <p>J: Less than 20 mVp-p</p>  <p>Respectively press the Auto WHT and Auto BLK buttons to automatically adjust white and black balance. These complete automatic shading balance adjustment.</p>	
(5)	Gamma balance 1 (set cross point to 0 dB)		<p>CA-Z31: 28 pin connector pins 7 and 3</p> <p>CA-Z32: 26 pin connector pins 4 and 3</p> <p>Video out (camera right side)</p>	<p>Press the  button to shift the cursor to 5. GAMMA BAL 1.</p> <p>Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.</p>	<p>Press the  and  buttons to adjust the G out gamma balance and set the gray scale cross point.</p> <p>K: 60 ± 1 IRE (J) 60 ± 1 IRE (U) 420 ± 7 mVp-p (E/K) Gamma cross point</p>  <p>a. Adjust the lens iris to set Video Out to the rated level, then press the Auto WHT button for automatic white balance adjustment.</p> <p>b. Reduce the lens iris opening to where white peak is about 40 % of the rated level.</p> <p>Press the Auto BLK button for gamma balance 1. Gamma balance is automatically adjusted when white balance is attained at the white peak. Repeat a and b, then repeat Step 2 Black set.</p>	

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(6)	Flare		Video out (camera right side)	<p>Press the  button to shift the cursor to 6. Flare.</p> <p>Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.</p>	<p>Press the Auto WHT button for automatic white balance adjustment. Next press the Auto BLK button for flare adjustment.</p> <p>Adjust the picture framing to position the gate marker at the black section of the gray scale (see figure).</p>  <p>Again press the Auto BLK button for flare adjustment. the carrier pulse within the gate area is adjusted.</p>	
(7)	Gamma balance 2 (cross point at 18 dB)		<p>CA-Z31: 28 pin connector pins 7 and 3</p> <p>CA-Z32: 26 pin connector pins 4 and 3</p> <p>Video out (camera right side)</p>	<p>Press the  button to shift the cursor to 7. GAMMA BAL 2.</p> <p>Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.</p>	<p>Press the  and  buttons to adjust the G out gamma balance and set the gray scale cross point.</p> <p>K: 55 ± 1 IRE (J) 55 ± 1 IRE (U) 385 ± 7 mVp-p (E/K)</p>  <p>a. Adjust the lens iris to set Video Out to the rated level, then press the Auto WHT button for automatic white balance adjustment.</p> <p>b. Reduce the lens iris opening to where white peak is about 40 % of the rated level. Press the Auto BLK button for gamma balance 1. Gamma balance is automatically adjusted when white balance is attained at the white peak.</p> <p>Repeat a and b.</p>	


Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(8)	Gamma balance 3 (cross point at ultra gain +18 dB)		CA-Z31: 28 pin connector pins 7 and 3 CA-Z32: 26 pin connector pins 4 and 3 Video out (camera right side)	Press the  button to shift the cursor to 8. GAMMA BAL 3. Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.	Press the  and  buttons to adjust the G out gamma balance and set the gray scale cross point. K: 55 ± 1 IRE (J) 55 ± 1 IRE (U) 385 ± 7 mVp-p (E/K) Gamma cross point  a. Adjust the lens iris to set Video Out to the rated level, then press the Auto WHT button for automatic white balance adjustment. b. Reduce the lens iris opening to where white peak is about 40 % of the rated level. Press the Auto BLK button for gamma balance 1. Gamma balance is automatically adjusted when white balance is attained at the white peak. Repeat a and b .	
(9)	White balance 4 (during ultra gain)		Video out (camera right side)	Press the  button to shift the cursor to 9. GAMMA BAL 3. Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.	a. Adjust the lens iris to set Video Out to the rated level, then press the Auto WHT button for automatic white balance adjustment. If successful, OK is indicated. b. If unsuccessful, NG is indicated. In this case press the  and  buttons to set the value between -80 and -100. Repeat a and b until OK is obtained.	


Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(10)	Gamma balance 4 (cross point at ultra gain 24 dB)		CA-Z31: 28 pin connector pins 7 and 3 CA-Z32: 26 pin connector pins 4 and 3 Video out (camera right side)	Press the  button to shift the cursor to 10. GAMMA BAL 4. Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.	Press the  and  buttons to adjust the G out gamma balance and set the gray scale cross point. K: 55 ± 1 IRE (J) 55 ± 1 IRE (U) 385 ± 7 mVp-p (E/K) Gamma cross point  a. Adjust the lens iris to set Video Out to the rated level, then press the Auto WHT button for automatic white balance adjustment. b. Reduce the lens iris opening to where white peak is about 40 % of the rated level. Press the Auto BLK button for gamma balance 1. Gamma balance is automatically adjusted when white balance is attained at the white peak. Repeat a and b .	

3-5 Adjust mode 3 (black and gamma)



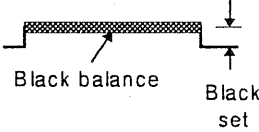

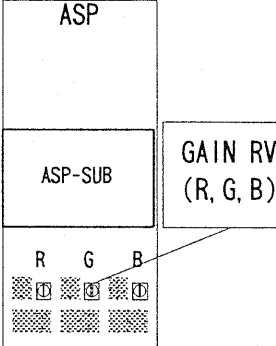


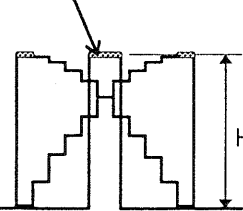
The camera : Z-3000W(The CPU software Is before "Ver1.9A".)




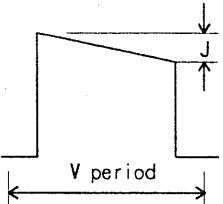

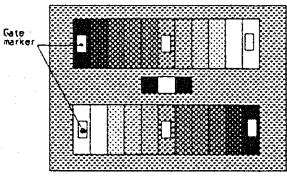


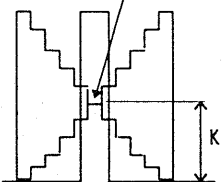
The cameras : S-3000W,Z-3000 and S-3000 are also.


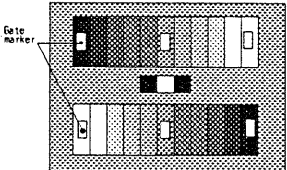

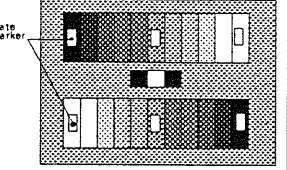


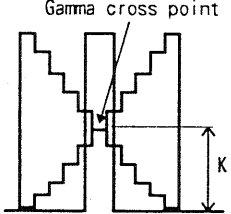
At Adjust mode 2, press the  button to shift the cursor to 5. PRE KNEE.


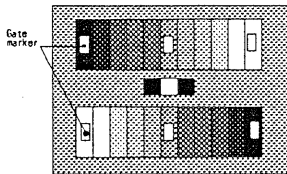


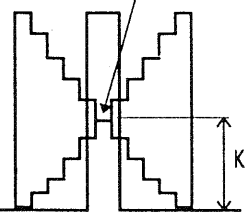



Then press the  button to change to the Adjust mode 3 screen.


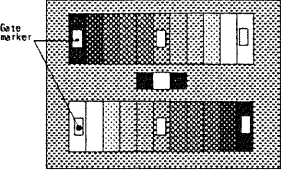


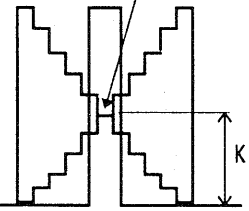
■ ADJUST MODE3 (GAM MODE)	
1. DARK SHAD	: PRESET
2. BLK SET	: PRESET
3. WHT BAL 3	: 0
4. MOD SHAD	: 0
5. GAMMA BAL1	: 0
6. FLARE	: 0
7. GAMMA BAL2	: 0
8. GAMMA BAL3	: 0
9. WHITE BAL4	: 0
10. GAMMA BAL4	: 0

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(1)	Dark shading		Video out (camera right side)	Press the  button to shift the cursor to 1. DARK SHAD.	Press the Auto Black button for automatic adjustment and wait for OK indication.	
(2)	Black set		Video out (camera right side)	Press the  button to shift the cursor to 2. BLACK SET.	Press the Auto Black button for automatic adjustment. 	Repeat Steps 1 and 2, then proceed to Step 3.
(3)	White balance 3	ASP unit RV501 (R gain), RV502 (G gain), RV503 (B gain)	Video out (camera right side)	Press the  button to shift the cursor to 3. WHT BAL 3. 	Press the  and  buttons to change the settings and adjust the black level. 10 ±1 IRE: NTSC (U models) 5 ±1 IRE: NTSC (J models) 20 ±3 mV : PAL (E/K models) Pickup a gray scale at 3200 K, 2000 lux, F11-1/3 and adjust the white level to H. 100 ±2 IRE: NTSC 700 ±15 mVp-p: PAL White balance: 7 mVp-p 	Repeat Steps 2 and 3, then proceed to Step 4.

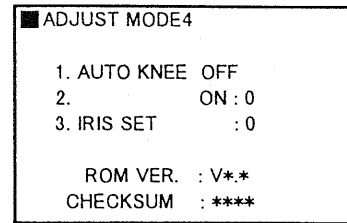
Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(4)	Modulation shading		<p>CA-Z31: 28 pin connector pins 7 and 3</p> <p>CA-Z32: 26 pin connector pins 4 and 3</p> <p>Video out (camera right side)</p>	<p>Press the  button to shift the cursor to 4. MOD SHAD (gamma goes to off).</p> <p>Pickup a uniformly illuminated white chart and set G out to 80 IRE.</p>	<p>Press the  and  buttons to adjust the G out modulation shading.</p> <p>J: Less than 20 mVp-p</p>  <p>Respectively press the Auto WHT and Auto BLK buttons to automatically adjust white and black balance. These complete automatic shading balance adjustment.</p>	
(5)	Gamma balance 1 (set cross point to 0 dB)		<p>CA-Z31: 28 pin connector pins 7 and 3</p> <p>CA-Z32: 26 pin connector pins 4 and 3</p> <p>Video out (camera right side)</p>	<p>Press the  button to shift the cursor to 5. GAMMA BAL 1. Adjust the picture framing to position the gate marker at the gray scale (see figure).</p>  <p>Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.</p>	<p>Press the  and  buttons to adjust the G out gamma balance and set the gray scale cross point.</p> <p>K: 60 ± 1 IRE (J) 60 ± 1 IRE (U) 420 ± 7 mVp-p (E/K)</p> <p>Gamma cross point</p>  <p>a. Adjust the lens iris to set Video Out to the rated level, then press the Auto WHT button for automatic white balance adjustment.</p> <p>b. Press the Auto BLK button for gamma balance 1. Gamma balance is automatically adjusted when white balance is attained at the white peak. Repeat a and b, then repeat Step 2 Black set.</p>	



Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(6)	Flare		Video out (camera right side)	<p>Press the  button to shift the cursor to 6. Flare.</p> <p>Adjust the picture framing to position the gate marker at the gray scale (see figure).</p>  <p>Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.</p>	<p>Press the Auto WHT button for automatic white balance adjustment.</p> <p>Open the lens iris to 3 steps.</p> <p>Next press the Auto BLK button for flare adjustment.</p> <p>Again press the Auto BLK button for flare adjustment. the carrier pulse within the gate area is adjusted.</p>	
(7)	Gamma balance 2 (cross point at 18 dB)		<p>CA-Z31: 28 pin connector pins 7 and 3</p> <p>CA-Z32: 26 pin connector pins 4 and 3</p> <p>Video out (camera right side)</p>	<p>Press the  button to shift the cursor to 7. GAMMA BAL 2.</p> <p>Adjust the picture framing to position the gate marker at the gray scale (see figure).</p>  <p>Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.</p>	<p>Press the  and  buttons to adjust the G out gamma balance and set the gray scale cross point.</p> <p>K: 55 ± 1 IRE (J) 55 ± 1 IRE (U) 385 ± 7 mVp-p (E/K)</p>  <p>a. Adjust the lens iris to set Video Out to the rated level, then press the Auto WHT button for automatic white balance adjustment.</p> <p>b. Press the Auto BLK button for gamma balance 1. Gamma balance is automatically adjusted when white balance is attained at the white peak.</p> <p>Repeat a and b.</p>	








Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(8)	Gamma balance 3 (cross point at ultra gain +18 dB)		CA-Z31: 28 pin connector pins 7 and 3 CA-Z32: 26 pin connector pins 4 and 3 Video out (camera right side)	Press the  button to shift the cursor to 8. GAMMA BAL 3. Adjust the picture framing to position the gate marker at the gray scale (see figure).  Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.	Press the  and  buttons to adjust the G out gamma balance and set the gray scale cross point. K: 55 ± 1 IRE (J) 55 ± 1 IRE (U) 385 ± 7 mVp-p (E/K) Gamma cross point 	
(9)	White balance 4 (during ultra gain)		Video out (camera right side)	Press the  button to shift the cursor to 9. GAMMA BAL 3. Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.	a. Adjust the lens iris to set Video Out to the rated level, then press the Auto WHT button for automatic white balance adjustment. If successful, OK is indicated. b. If unsuccessful, NG is indicated. In this case press the  and  buttons to set the value between -80 and -100. Repeat a and b until OK is obtained.	

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(10)	Gamma balance 4 (cross point at ultra gain 24 dB)		CA-Z31: 28 pin connector pins 7 and 3 CA-Z32: 26 pin connector pins 4 and 3 Video out (camera right side)	<p>Press the  button to shift the cursor to 10. GAMMA BAL 4.</p> <p>Adjust the picture framing to position the gate marker at the gray scale (see figure).</p>  <p>Pickup a gray scale chart and adjust the lens iris to set the white peak to the rated level.</p>	<p>Press the  and  buttons to adjust the G out gamma balance and set the gray scale cross point.</p> <p>K: 55 ± 1 IRE (J) 55 ± 1 IRE (U) 385 ± 7 mVp-p (E/K) Gamma cross point</p>  <p>a. Adjust the lens iris to set Video Out to the rated level, then press the Auto WHT button for automatic white balance adjustment.</p> <p>b. Press the Auto BLK button for gamma balance 1. Gamma balance is automatically adjusted when white balance is attained at the white peak.</p> <p>Repeat a and b.</p>	



3-6 Adjust mode 4 (auto knee and iris with gray scale)






At Adjust mode 3, press the  button to shift the cursor to 10. GAMMA BAL 4. Then press the  button to change to the Adjust mode 4 screen.

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(1)	Auto knee off		Video out (camera right side)	Press the  button to shift the cursor to 1. AUTO KNEE OFF. ·Pickup a gray scale chart and adjust the lens iris to set the white peak to 100 % of the rated level.	Press the Auto WHT button for automatic white balance adjustment. If OK is not indicated, check operation.	
(2)	Auto knee on		Video out (camera right side)	Press the  button to shift the cursor to 2. AUTO KNEE ON.	Auto knee operates. Check the setting is 0. The auto knee point can be adjusted with the  and  buttons.	
(3)	Iris set		Video out (camera right side)	Press the  button to shift the cursor to 3. IRIS SET. Set the lens iris mode to Auto.	Pickup a gray scale and adjust the video signal with the  and  buttons. NTSC: 100 +2 IRE PAL : 700 ±20 mVp-p	
(4)	ROM version			Check ROM version V*.*	Confirm a suitable ROM version.	
(5)	Check sum			Observe the check sum.	Confirm the same check sum when ROM writer was used.	

3-7 Adjust mode 5 (SC-H. NTSC only)

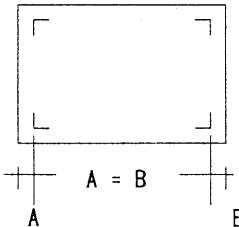
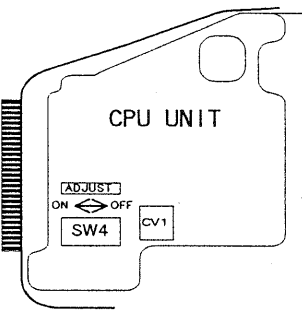




At Adjust mode 4, press the  button to shift the cursor to 3. IRIS SET 4.
Then press the  button to change to the Adjust mode 5 screen.

■ ADJUST MODE5	
SCH ADJ	
1. SC COARSE	: 90°
2. SC FINE	: -64

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(1)	SC-H		Video out (camera right side)	Press the  button to shift the cursor to 2. SC FINE. Supply the video signal to a suitable instrument, such as an oscilloscope, for measuring SC-H.	Change the SC-FINE setting with the  and  buttons and adjust the SC-H phase. Specification: $\pm 5^\circ$	

Set the CPU adjust switch to off to exit the adjust mode.

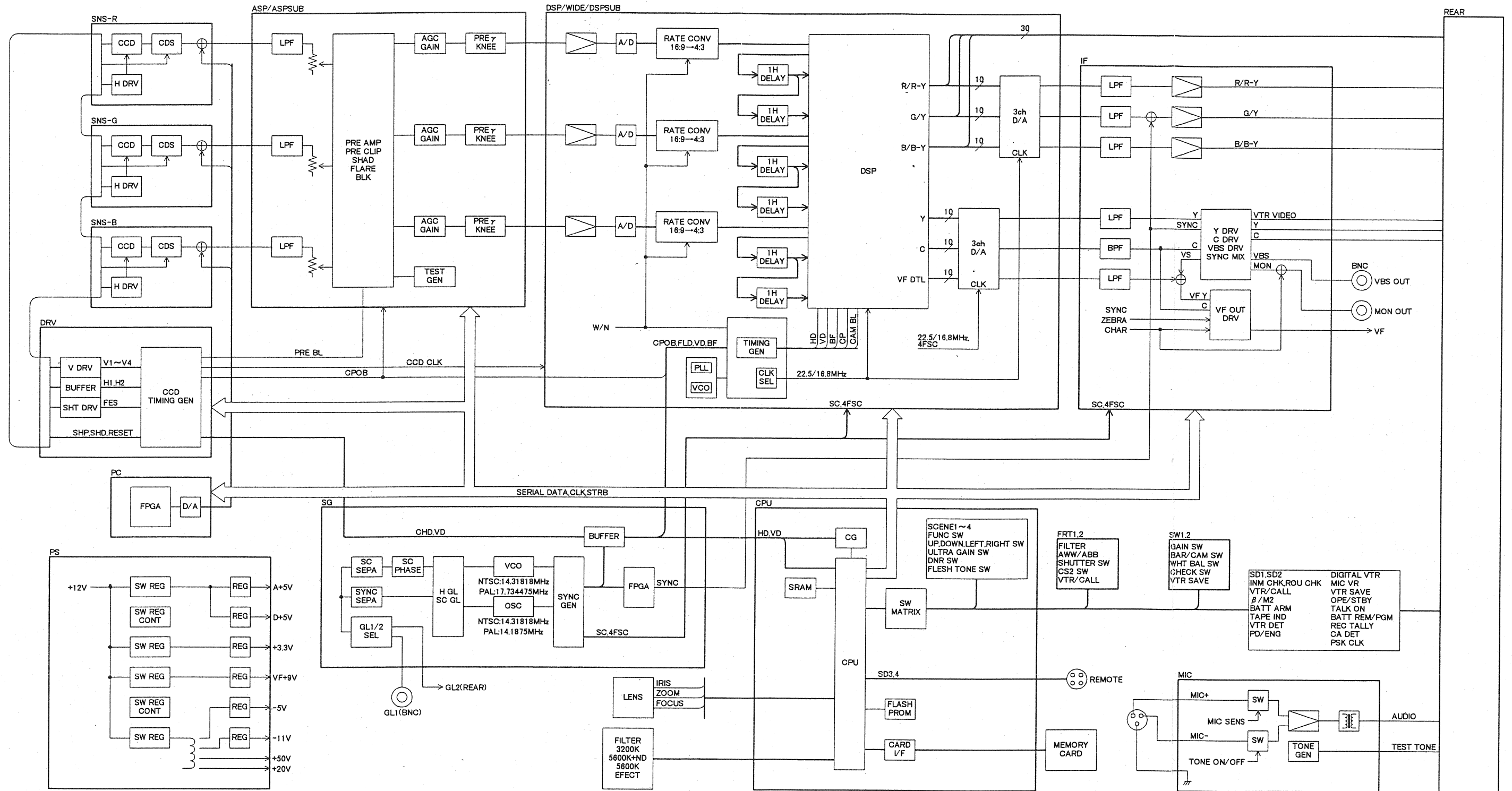
4. Characters and lens

Item	Adjustment	Control	Test point	Initial setting	Description	Remarks
(1)	Character position	CPU CV1	Viewfinder screen	Adjust so that the safety zone is equally spaced from both edges of the viewfinder screen. 		
(2)	Iris speed	Lens iris gain control		Pickup a gray scale. Install, then remove the lens cap. Observe that iris hunting until the video level stabilizes is less than one cycle and overshoot is less than 50 mVp-p. a. Z-3000W lens (12 pin): Adjust the iris gain control. b. 6 pin lens: Set the iris gain control fully clockwise (maximum). At the function menu Special set screen, set the cursor to the Iris speed item and adjust the response speed with the  and  buttons.		
(3)	Iris close limit			At the function menu Special set screen, set the cursor to the Close limit item and set the value to F16 with the  and  buttons.		

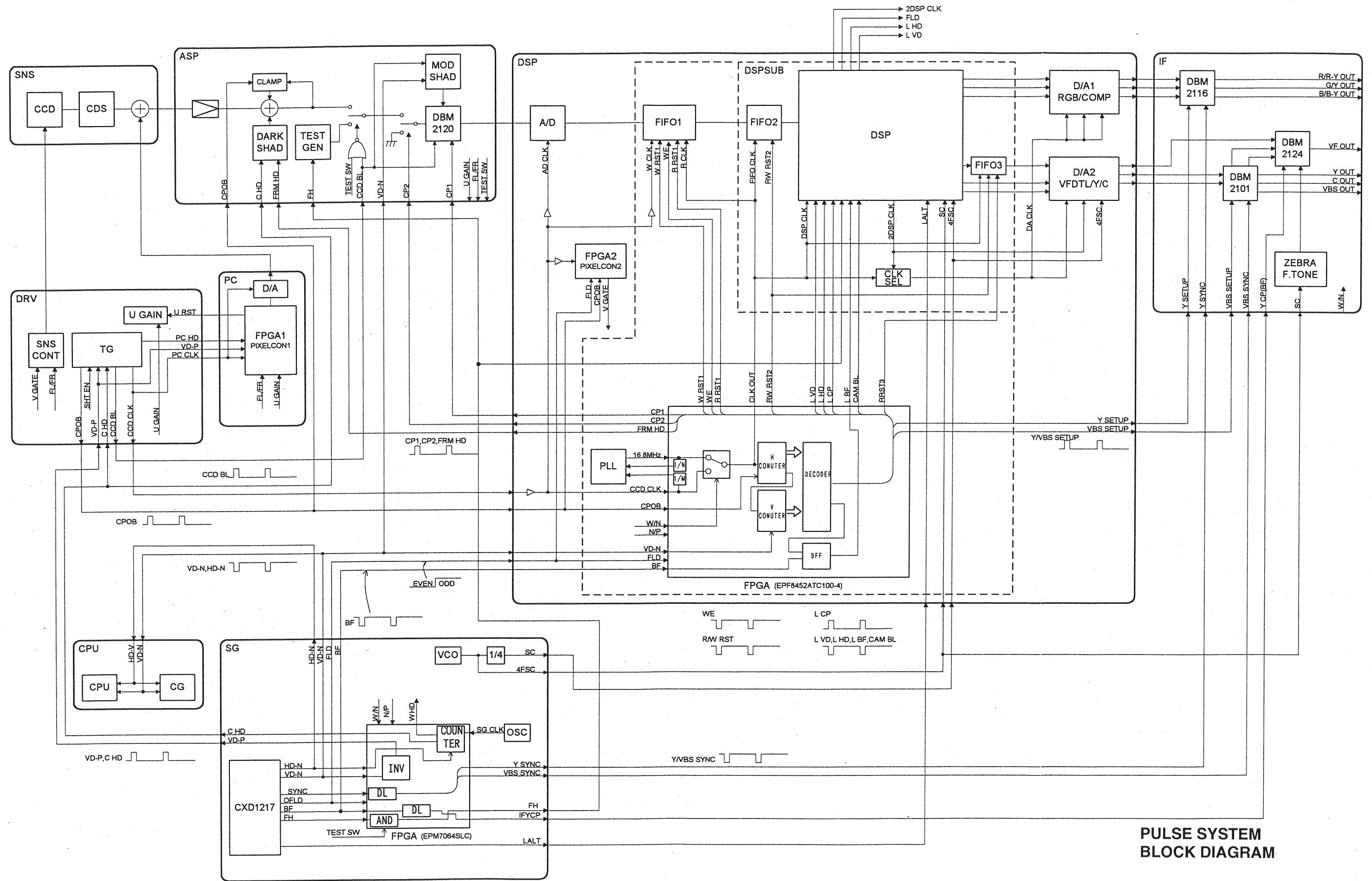
BLOCK DIAGRAM

Block diagram	5-1
PULSE system block diagram	5-3
INTERCOM system block diagram	5-5
MIC system block diagram	5-7
POWER system block diagram	5-9

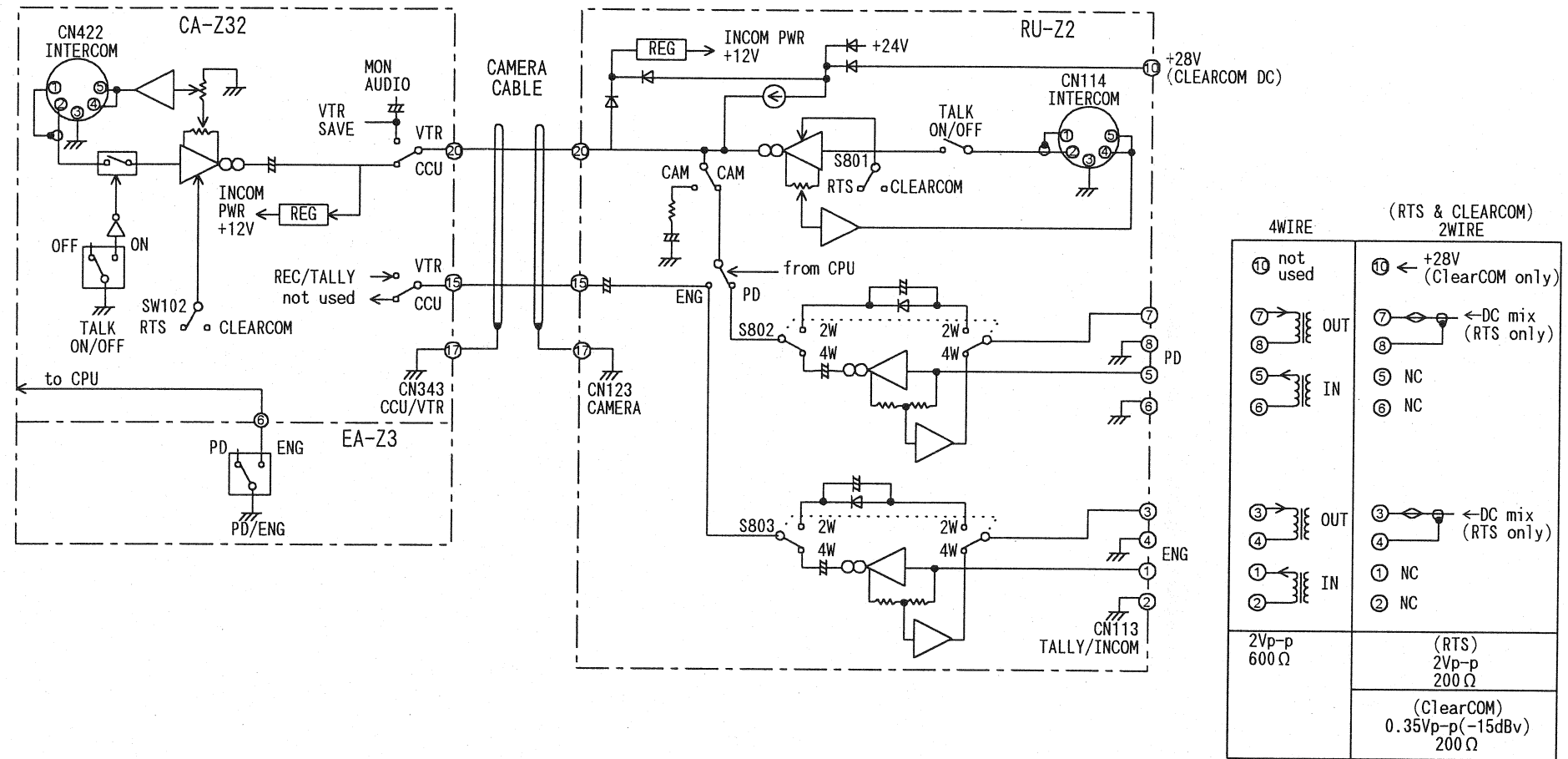
5. BLOCK DIAGRAM



BLOCK DIAGRAM

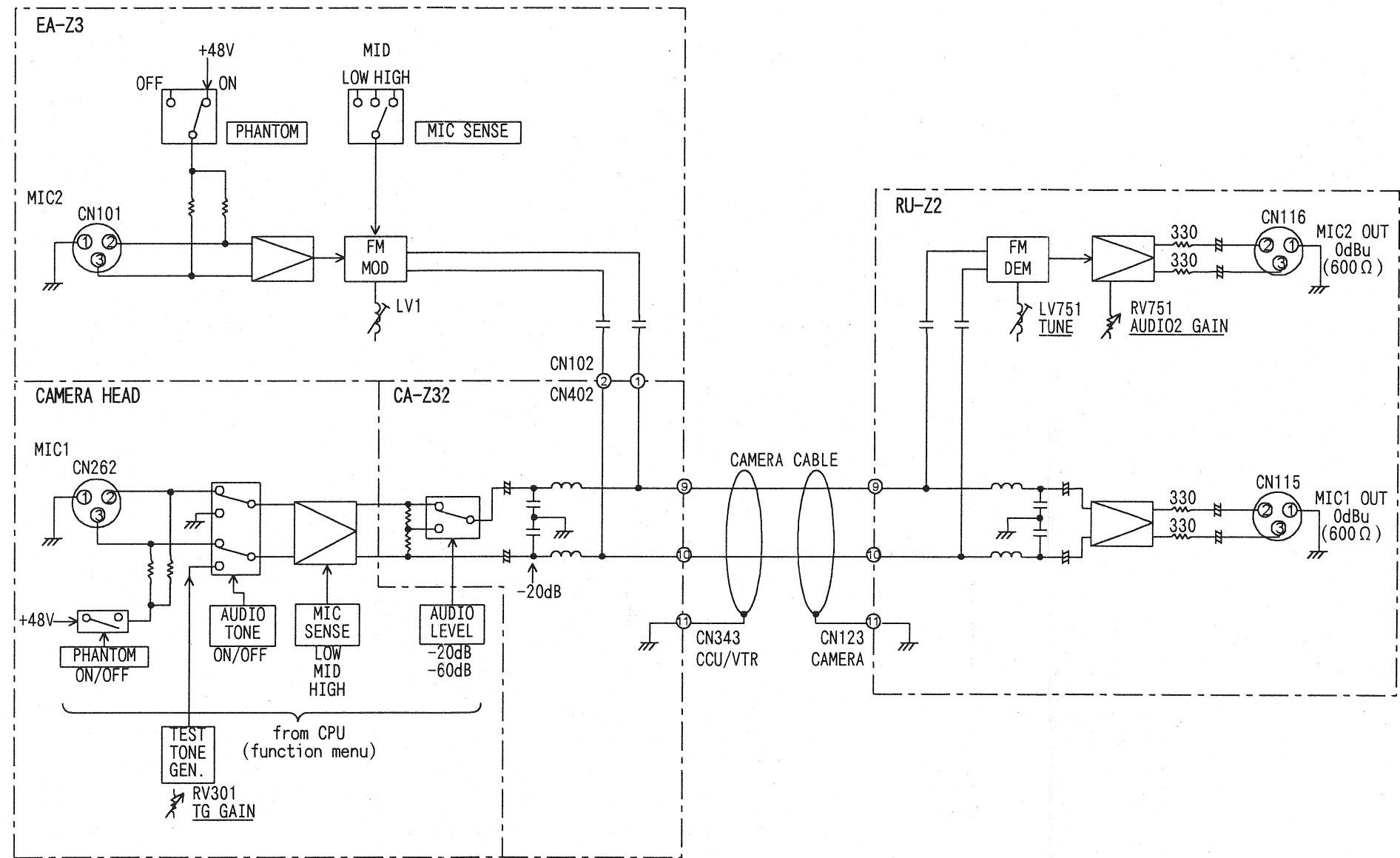


**PULSE SYSTEM
BLOCK DIAGRAM**

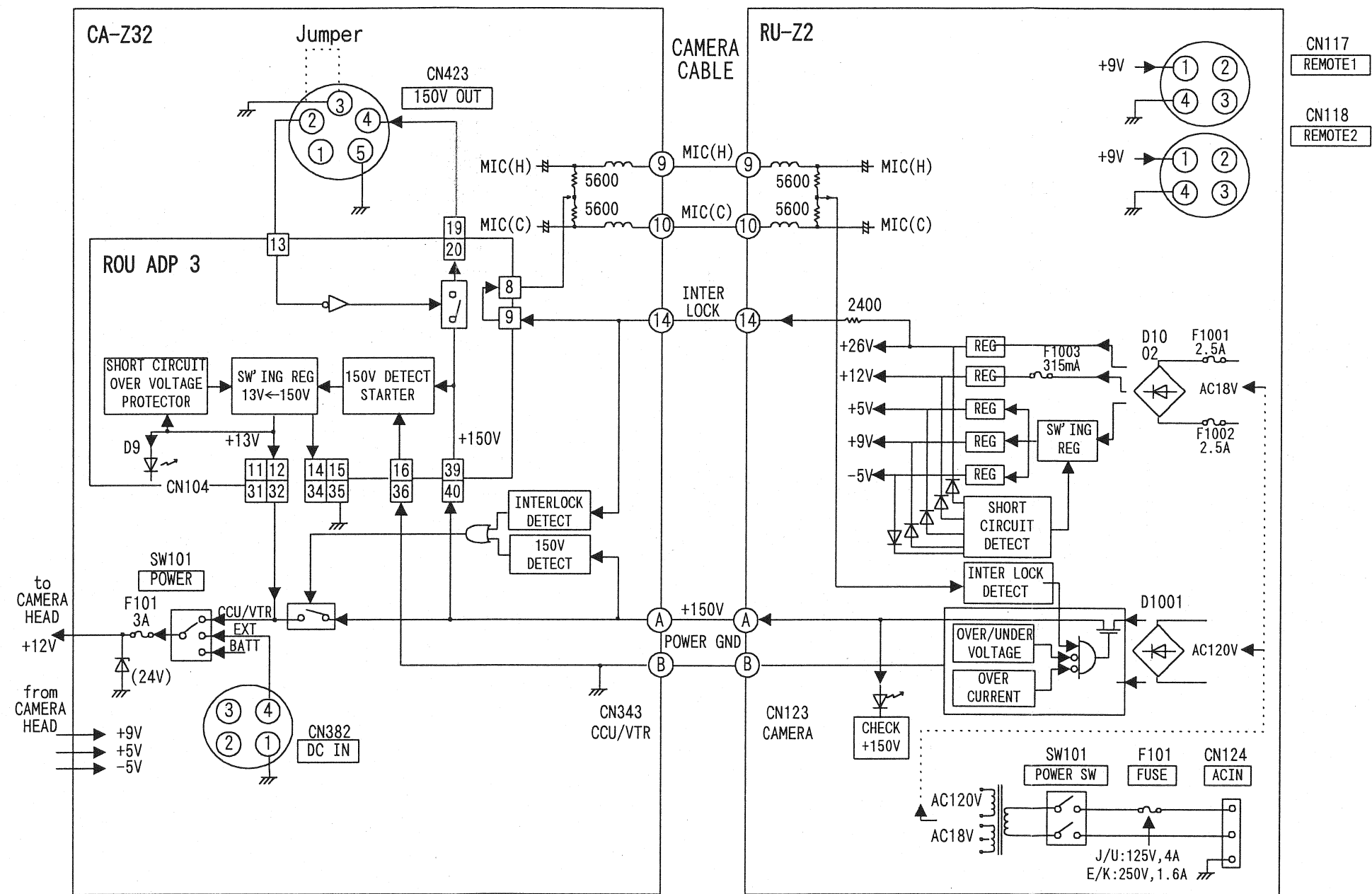


note. Usually use the PD intercom.
When the EA-Z3 is connected, the intercom can be switched between the ENG and the PD.

INTERCOM SYSTEM BLOCK DIAGRAM



**MIC SYSTEM
BLOCK DIAGRAM**

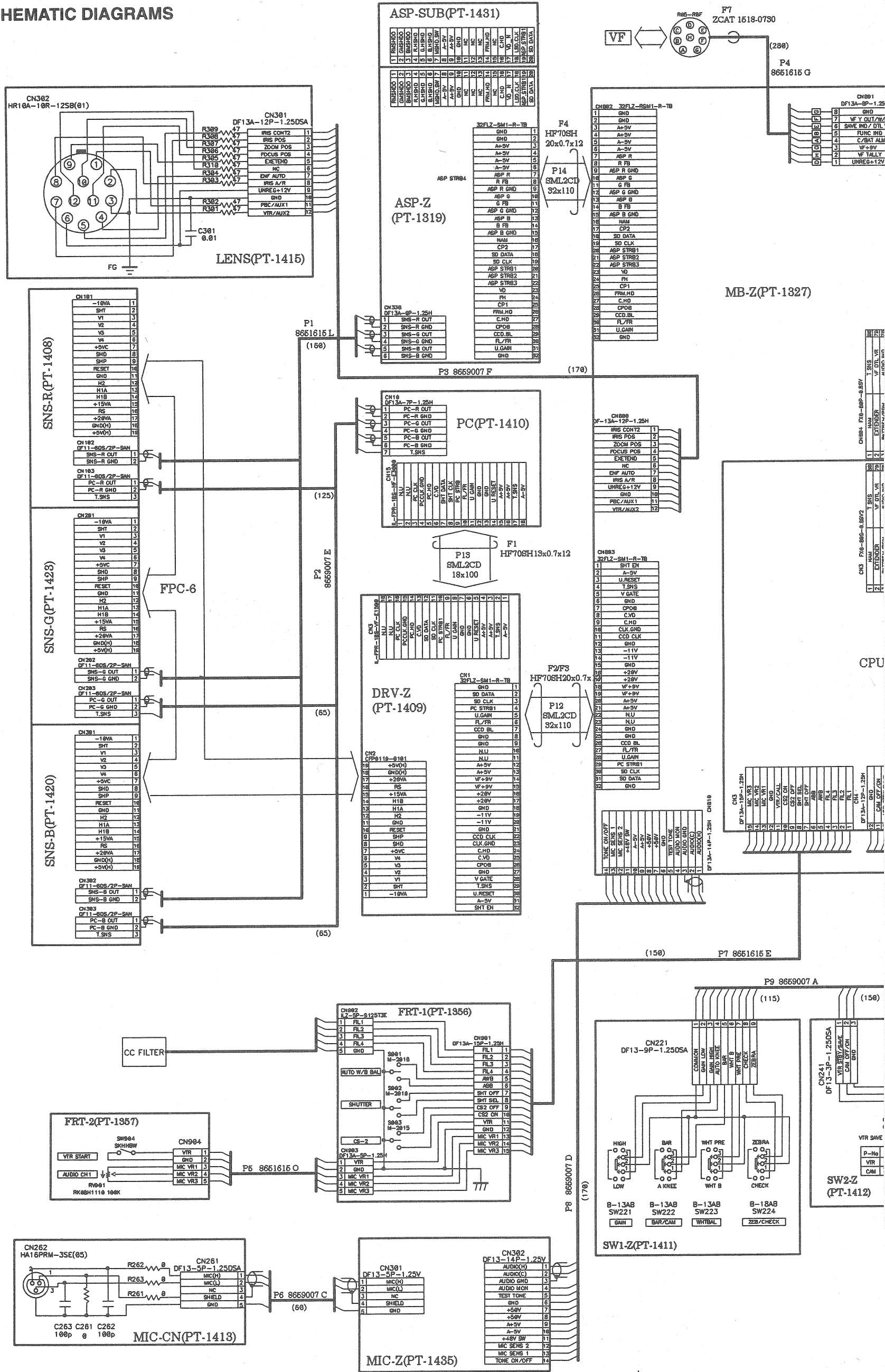


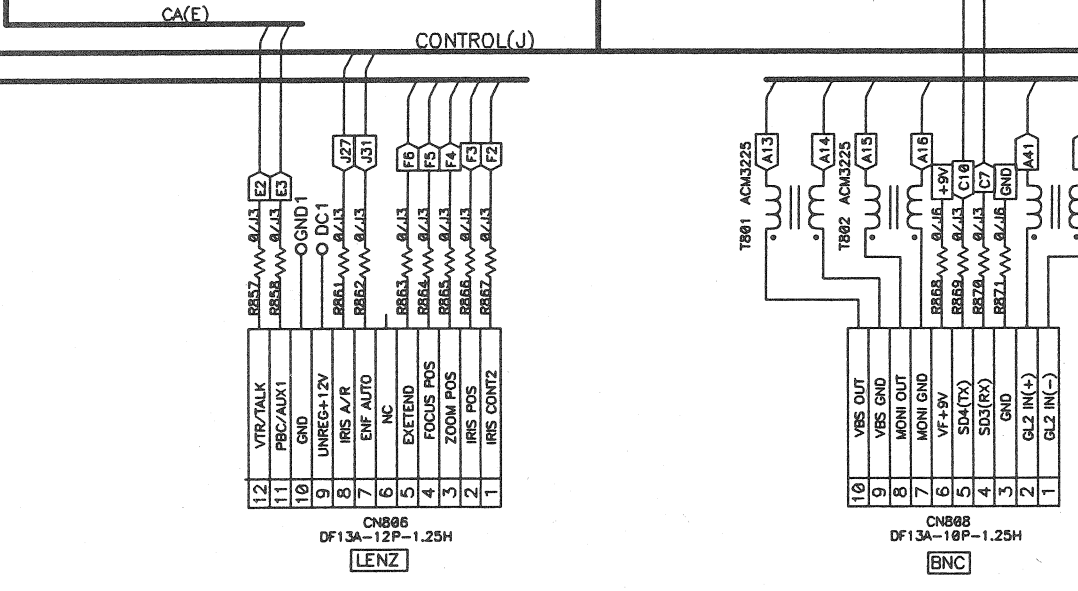
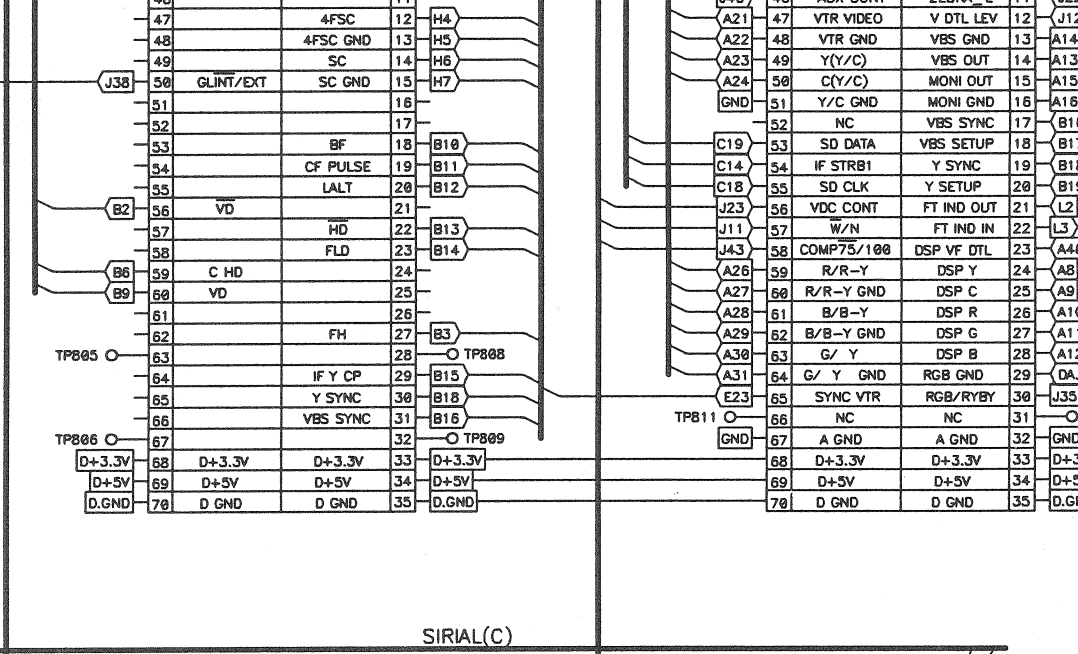
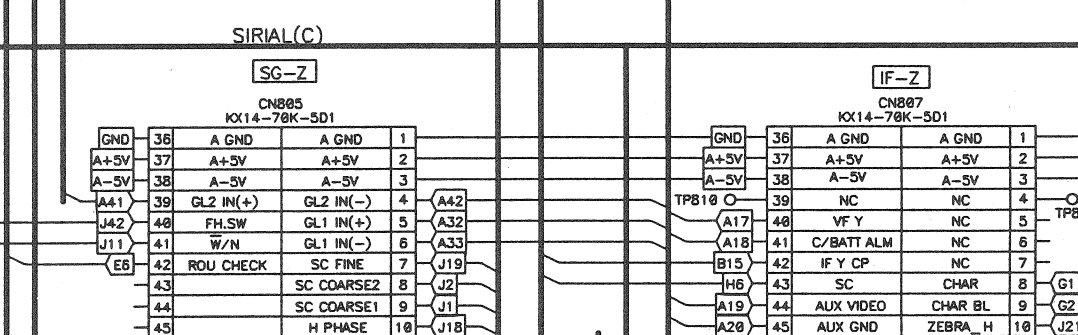
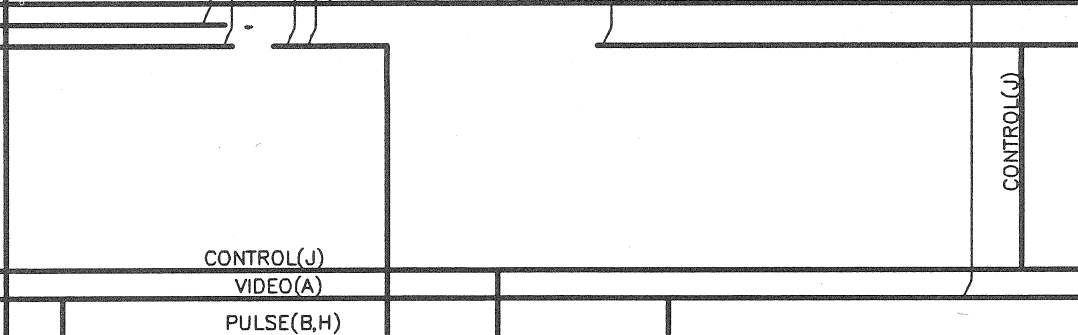
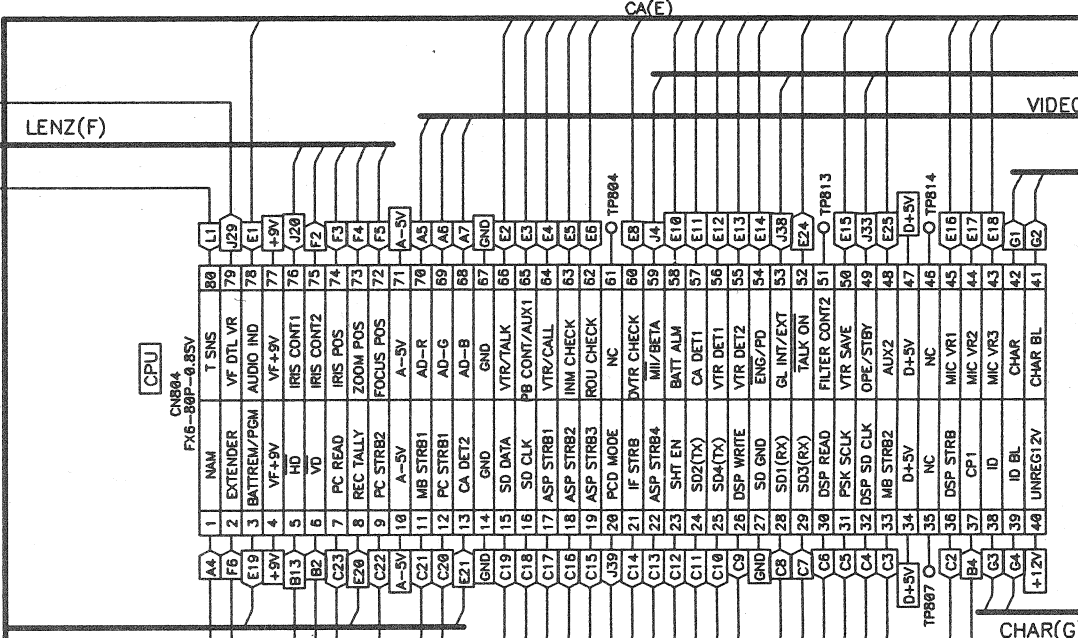
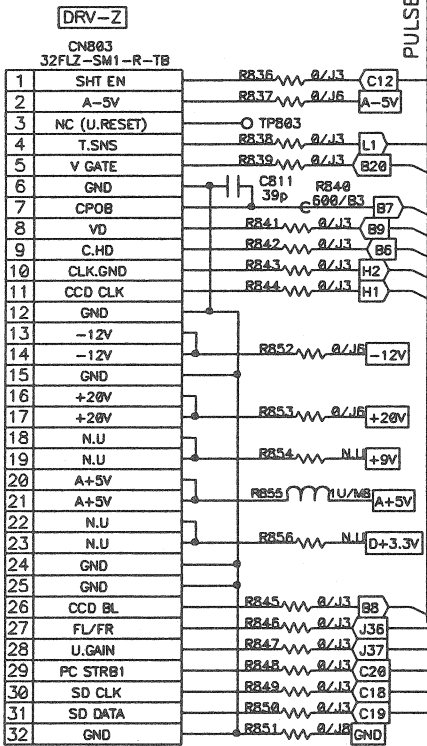
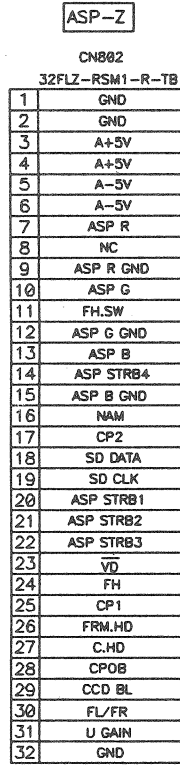
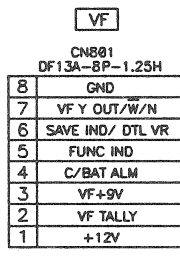
**POWER SYSTEM
BLOCK DIAGRAM**

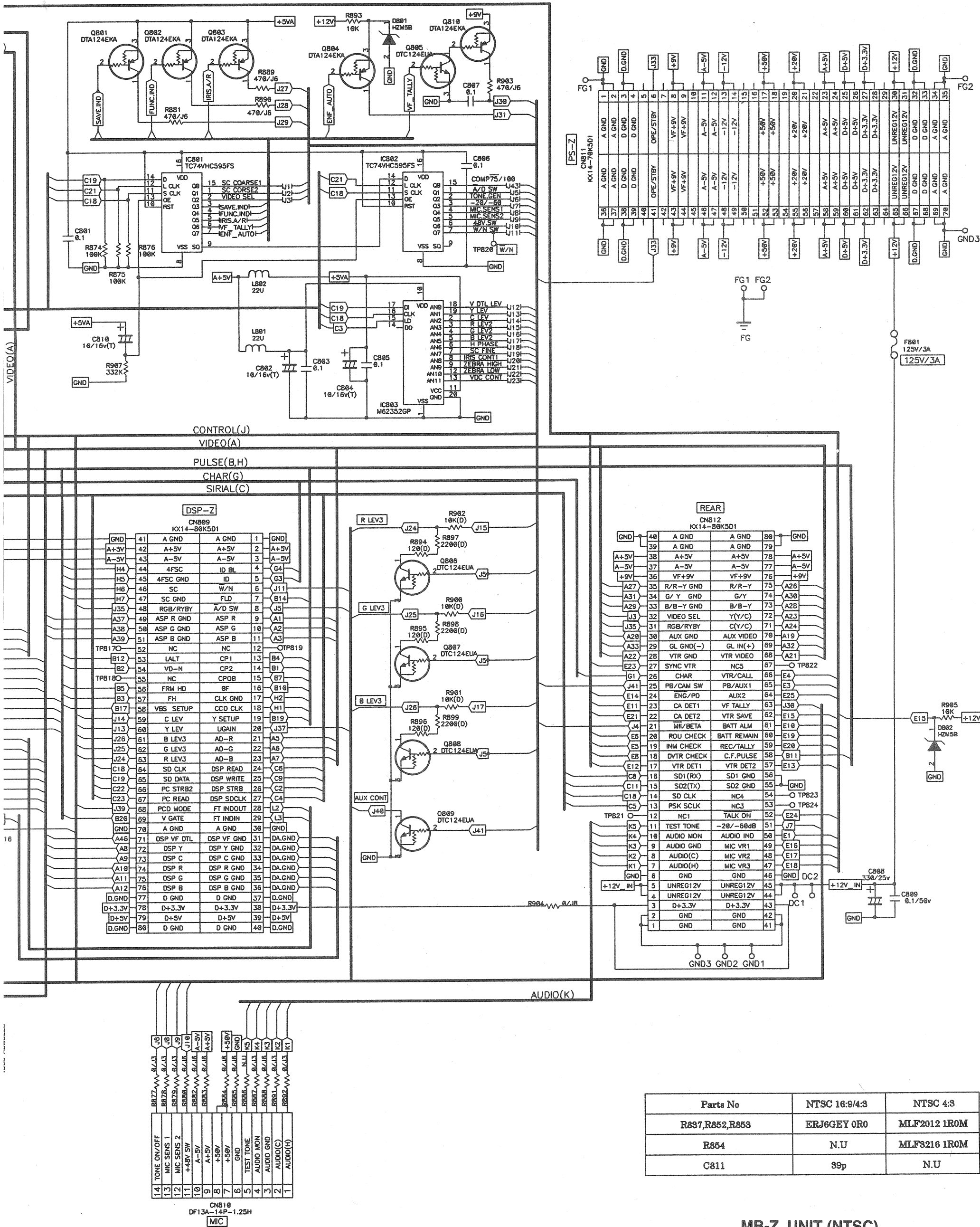
SCHEMATIC DIAGRAM

CHASSIS	6-1
MB-Z unit (NTSC)	6-3
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SNS-R/G/B unit(NTSC 16:9/4:3)	6-7
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DRV-M5 unit (PAL 16:9/4:3)	6-15
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PS-Z unit (PAL)	6-75
REAR unit	6-77
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6. SCHEMATIC DIAGRAMS

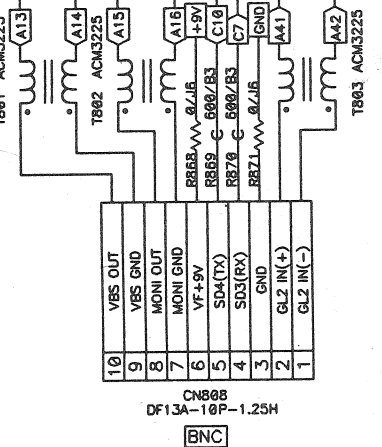
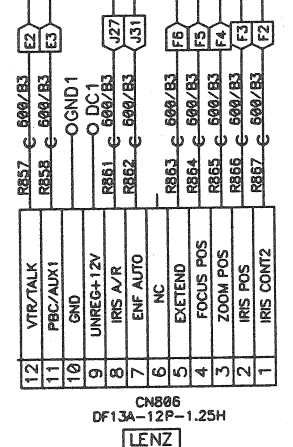
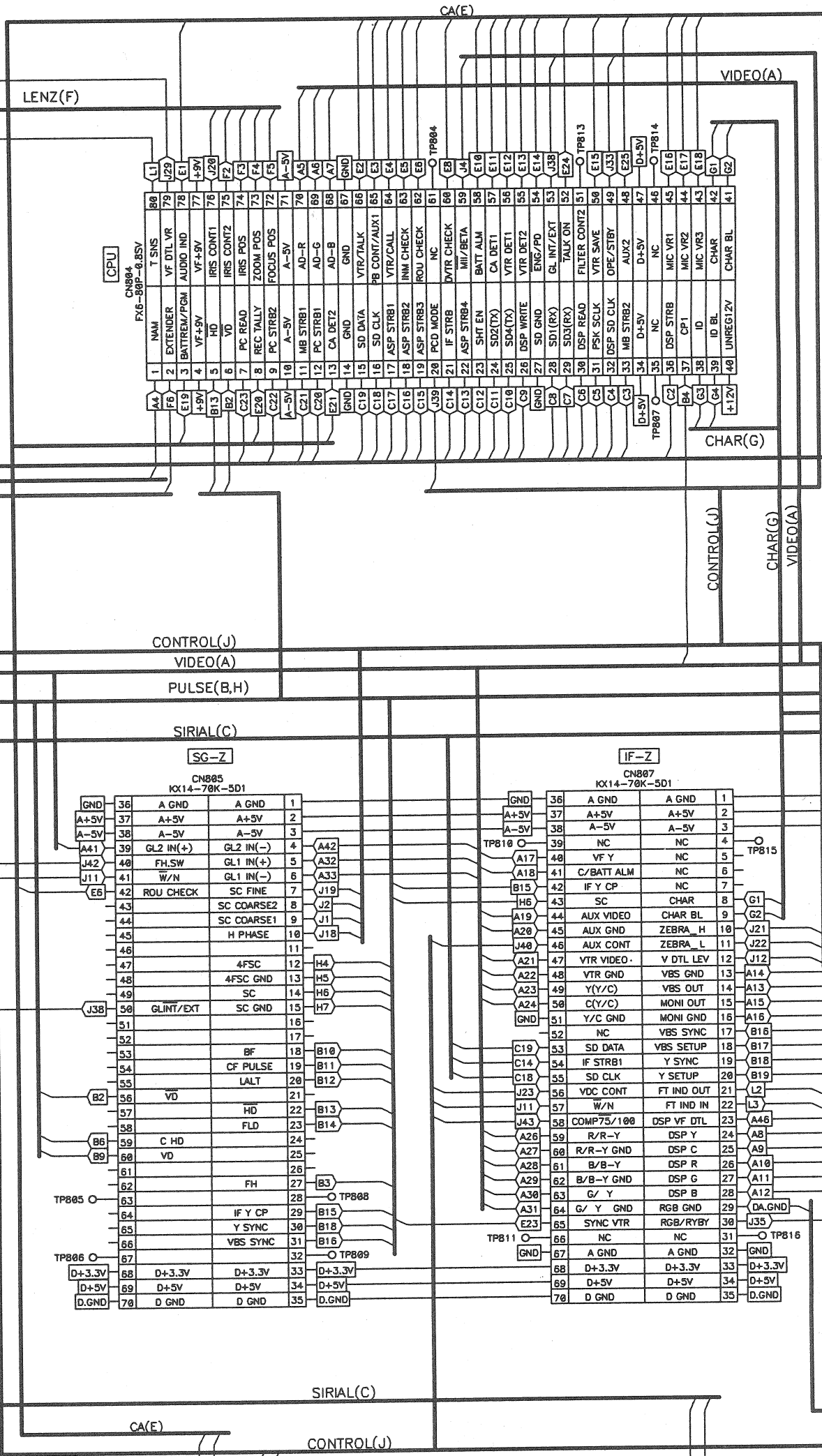
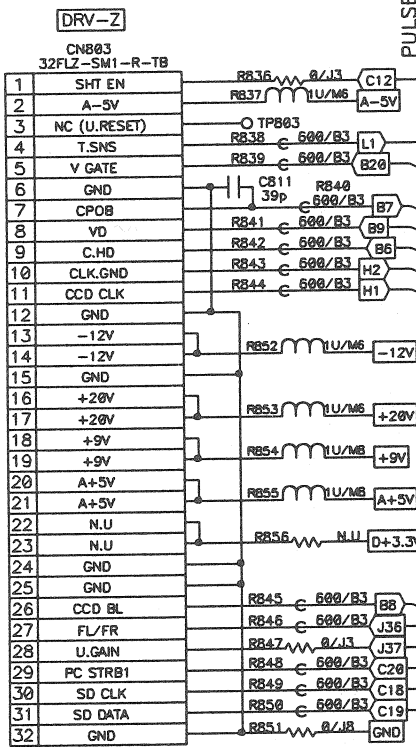
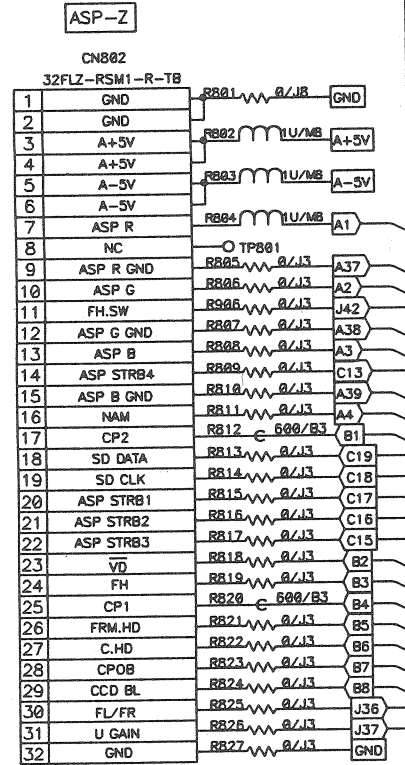
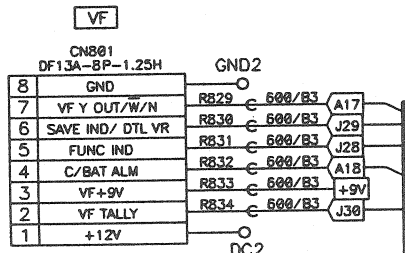


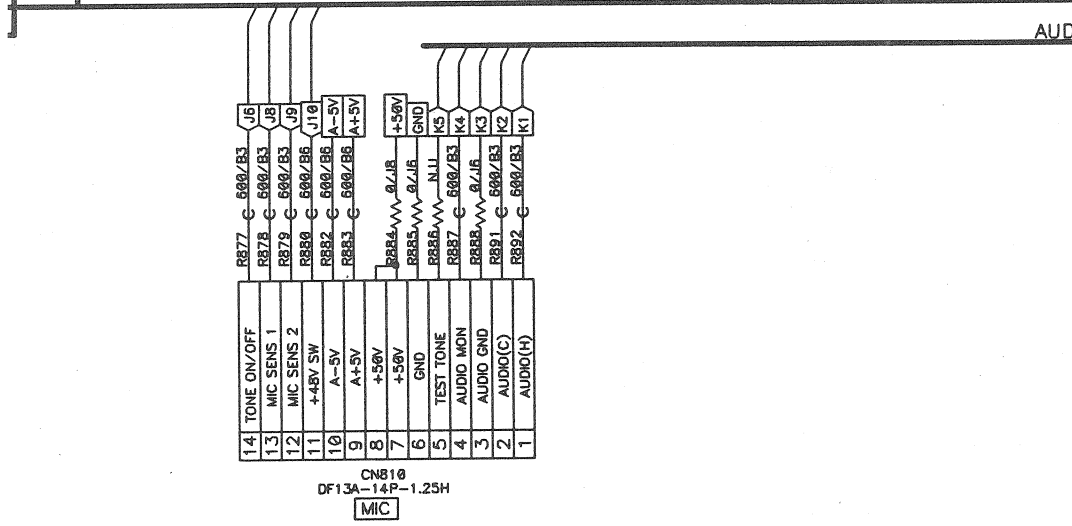
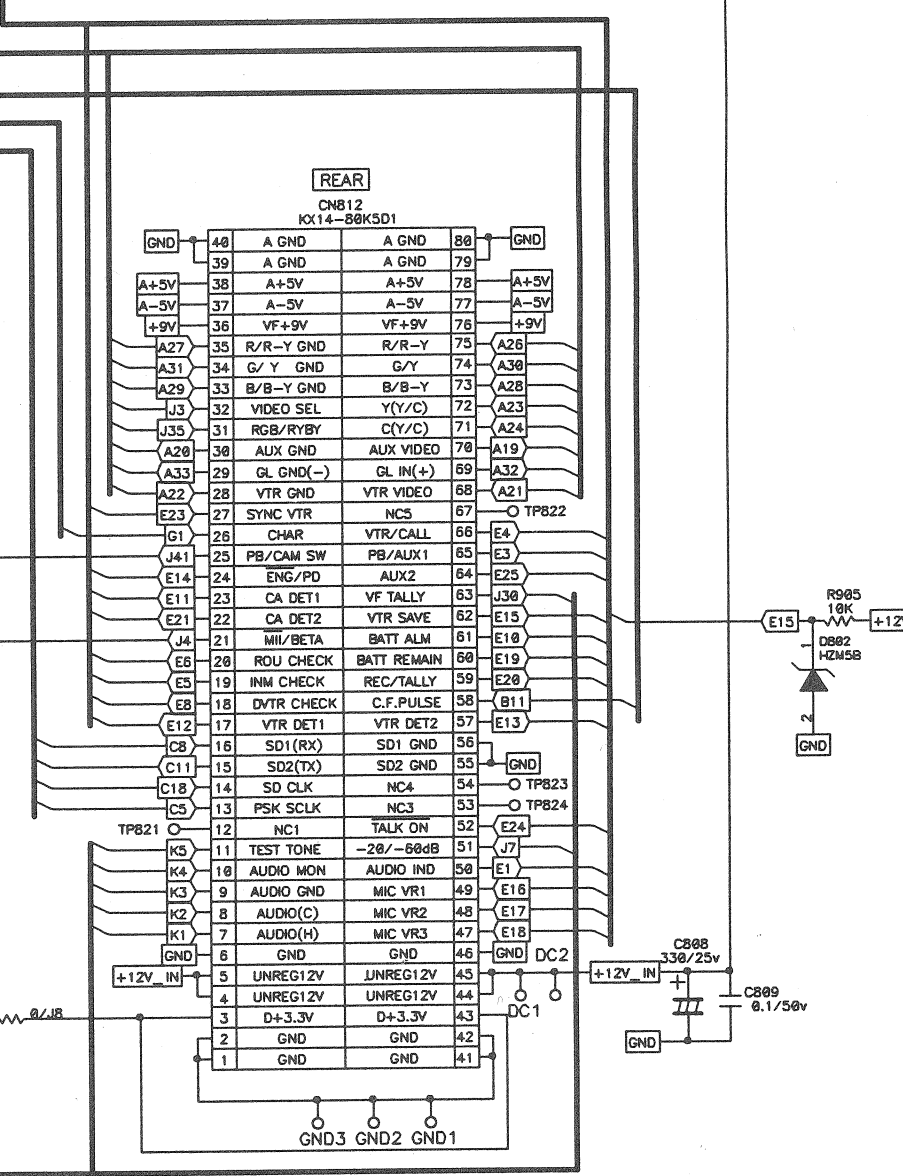
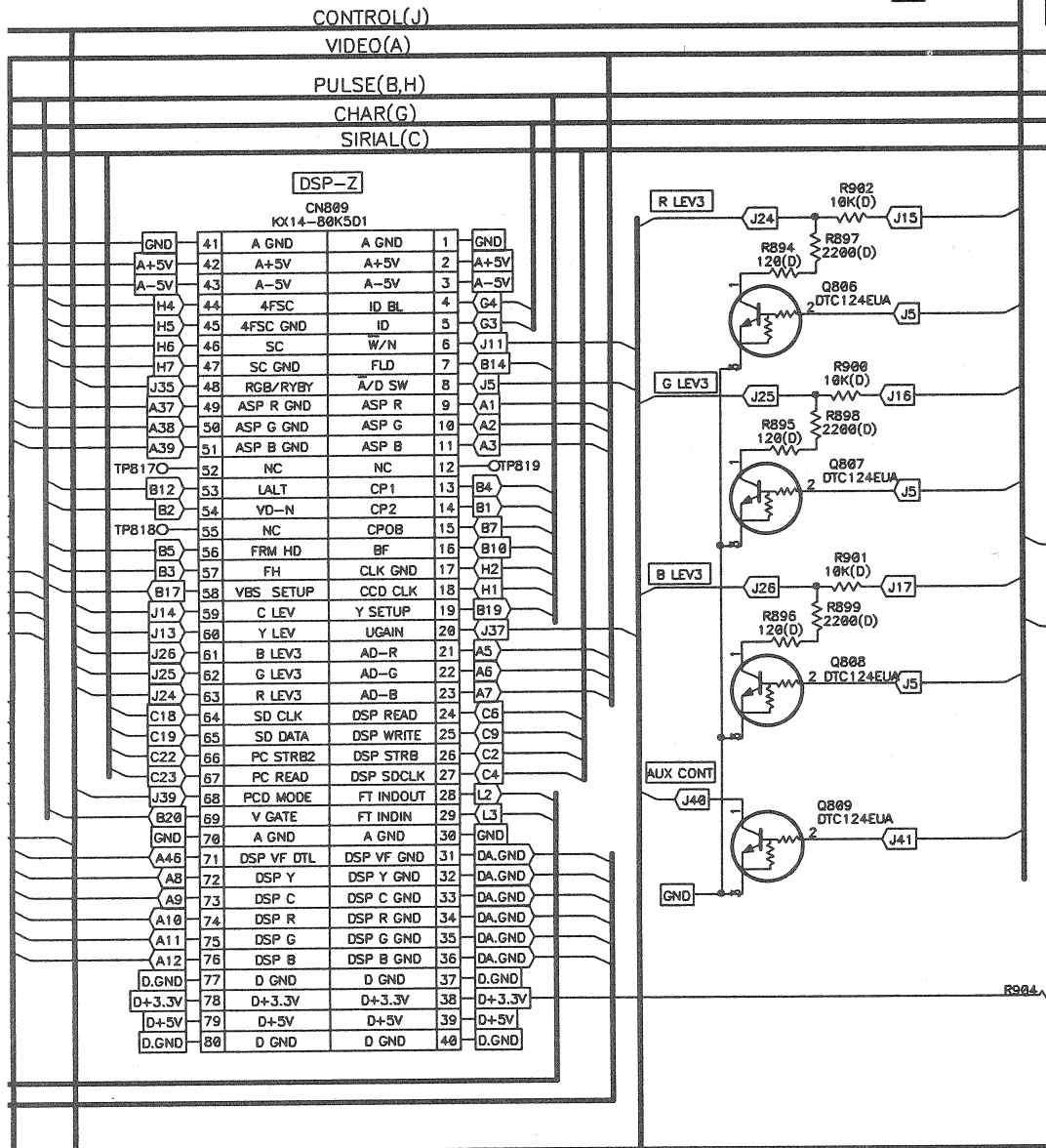
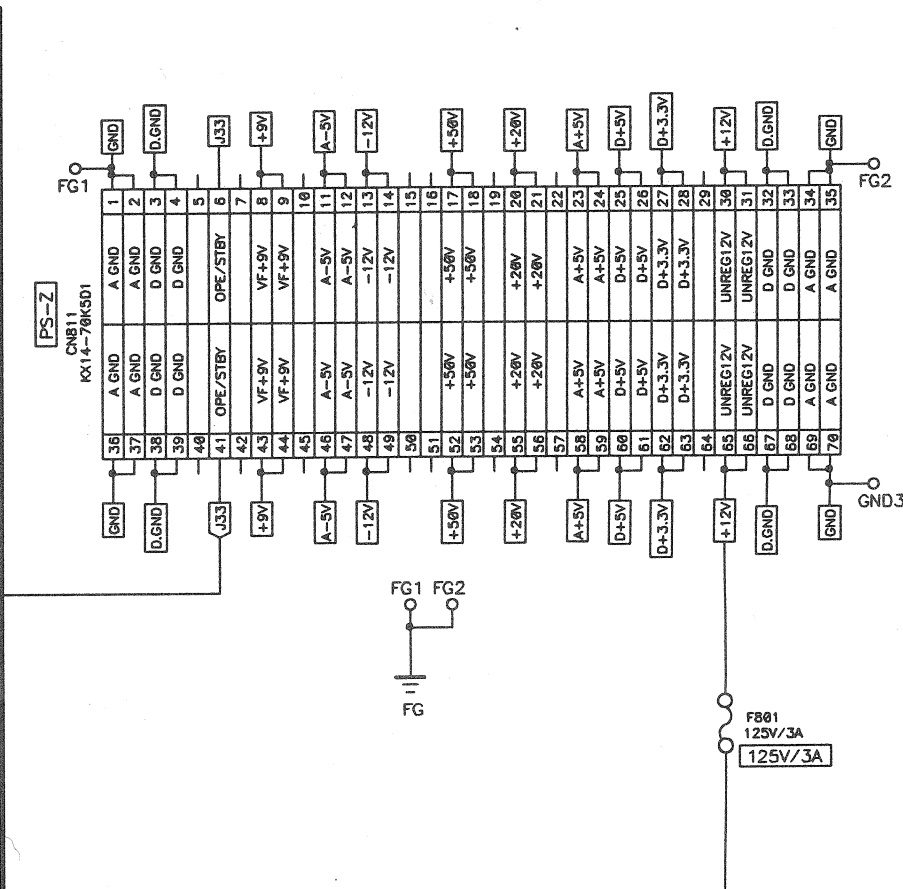
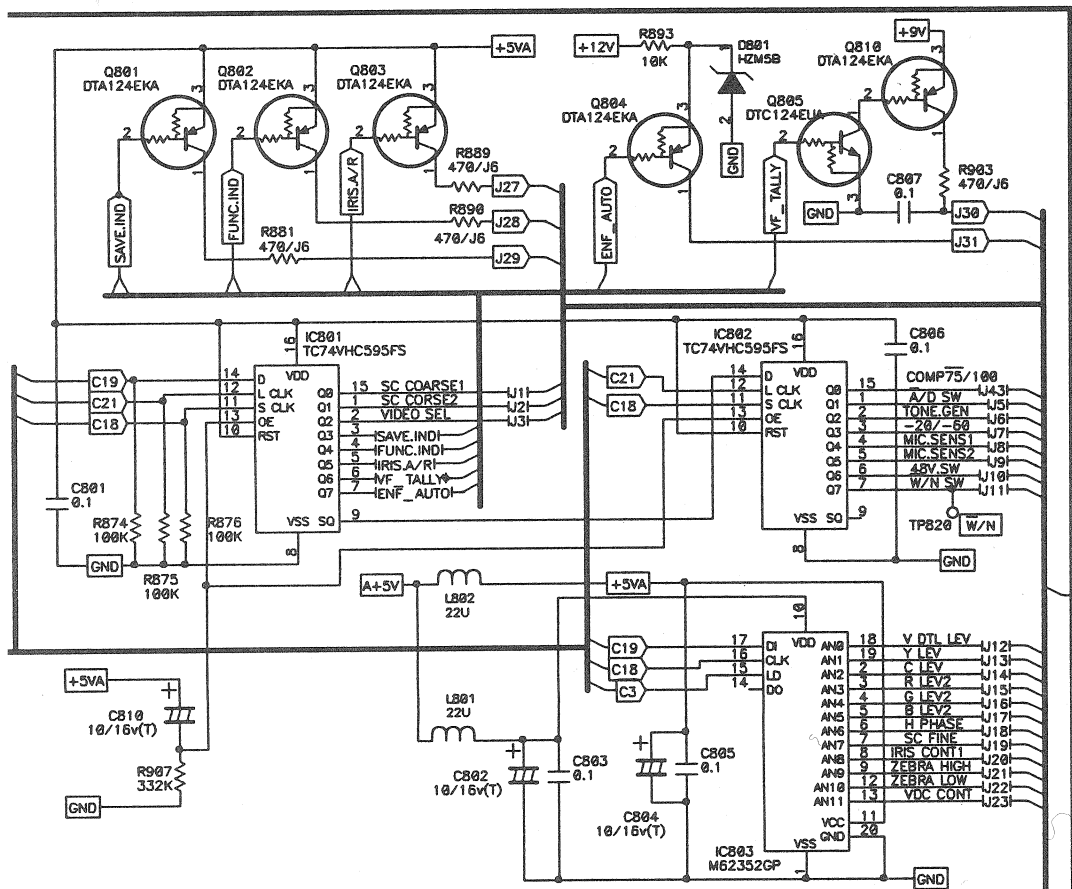




Parts No	NTSC 16:9/4:3	NTSC 4:3
R837,R852,R853	ERJ6GEY 0R0	MLF2012 1R0M
R854	N.U	MLF3216 1R0M
C811	39p	N.U

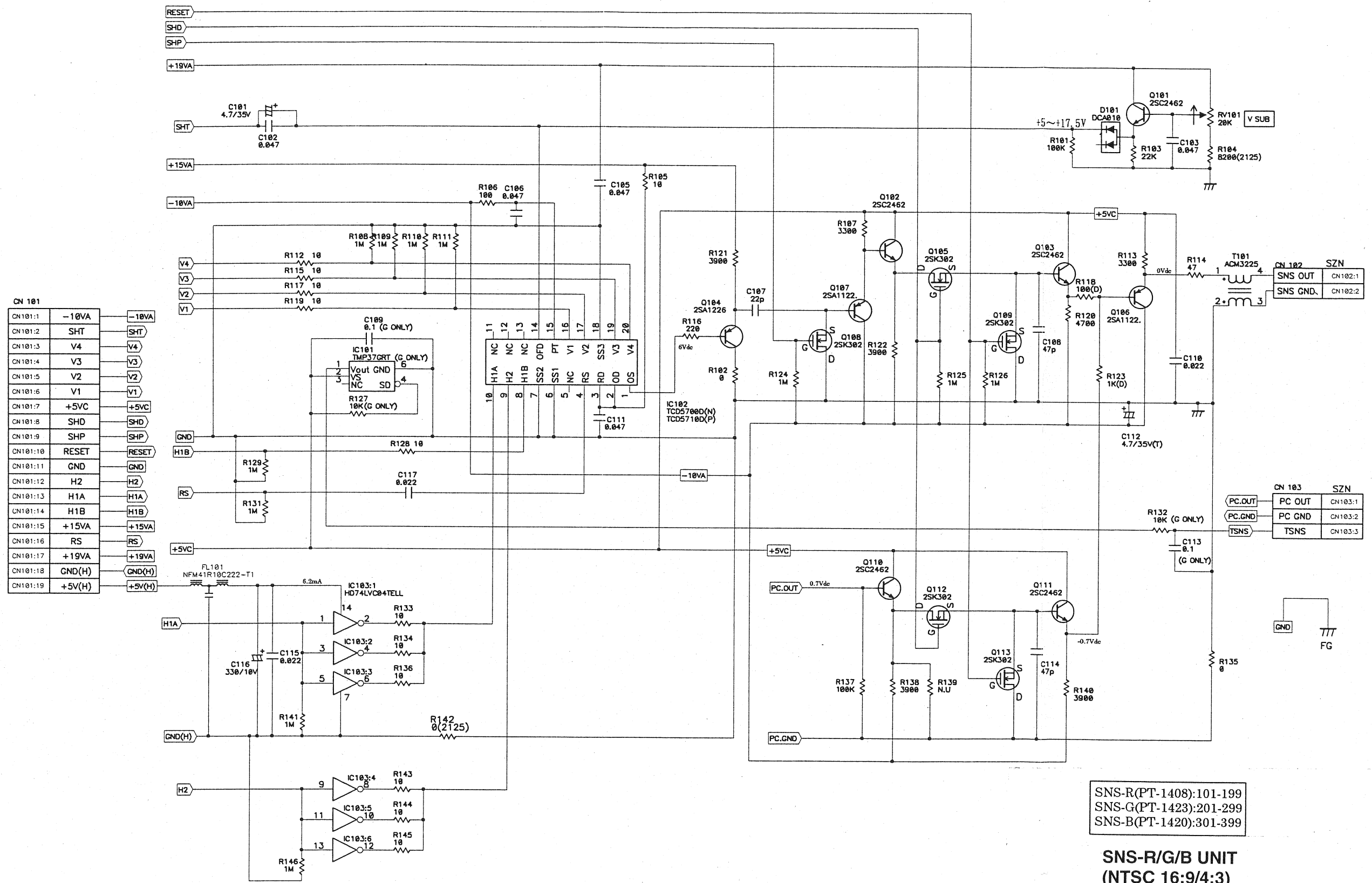
MB-Z UNIT (NTSC)
SCHEMATIC DIAGRAM





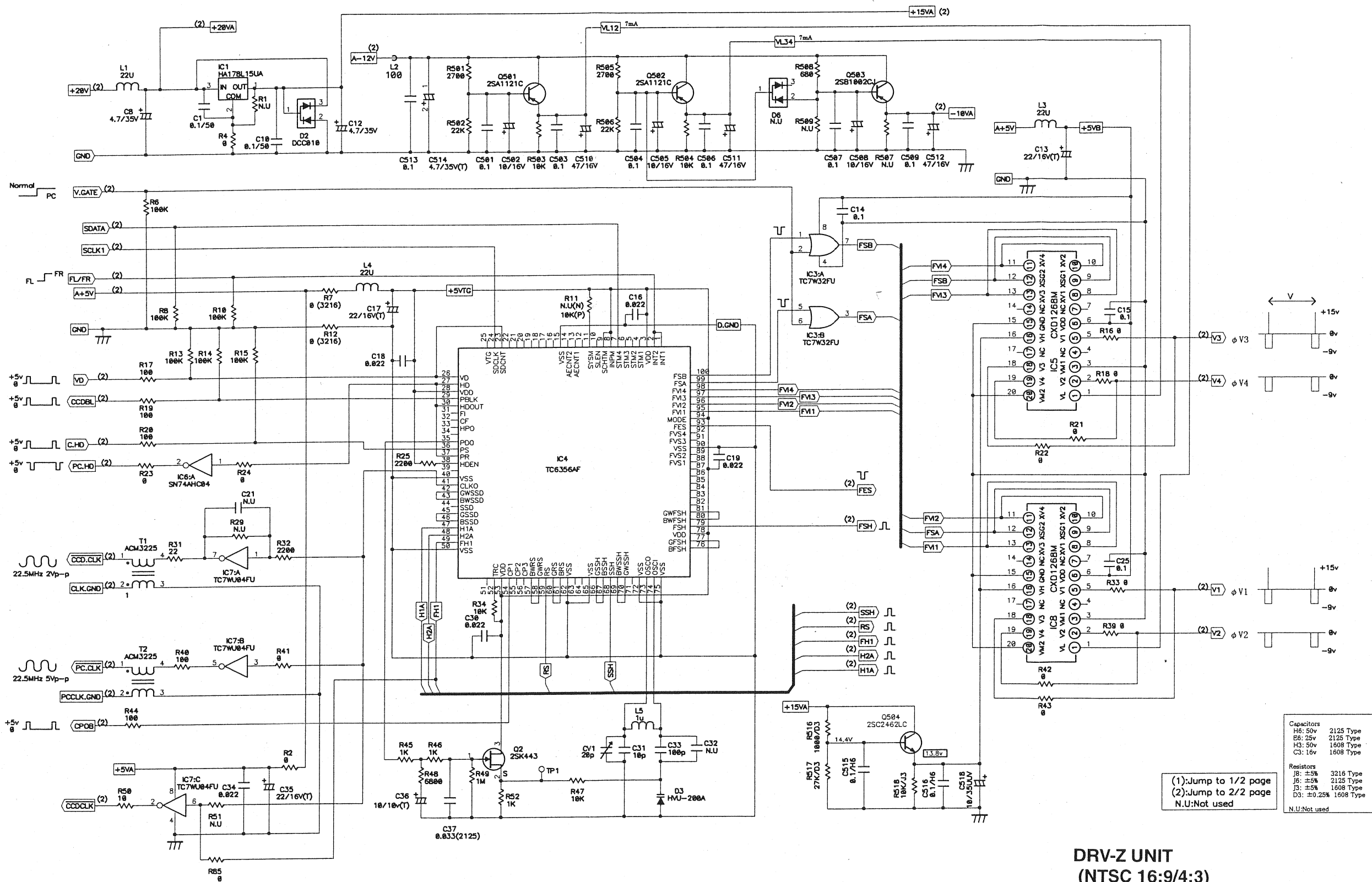
Resistors	
J8: ±5%	3216 Type
J6: ±5%	2125 Type
J5: ±5%	1608 Type
D3: ±0.2%	1608 Type
Beams	
B6:	2125 Type
B3:	1608 Type
Inductors	
M8:	3216 Type
M6:	2125 Type
M3:	1608 Type
N.U.: Not used	

**MB-Z UNIT (PAL)
SCHEMATIC DIAGRAM**

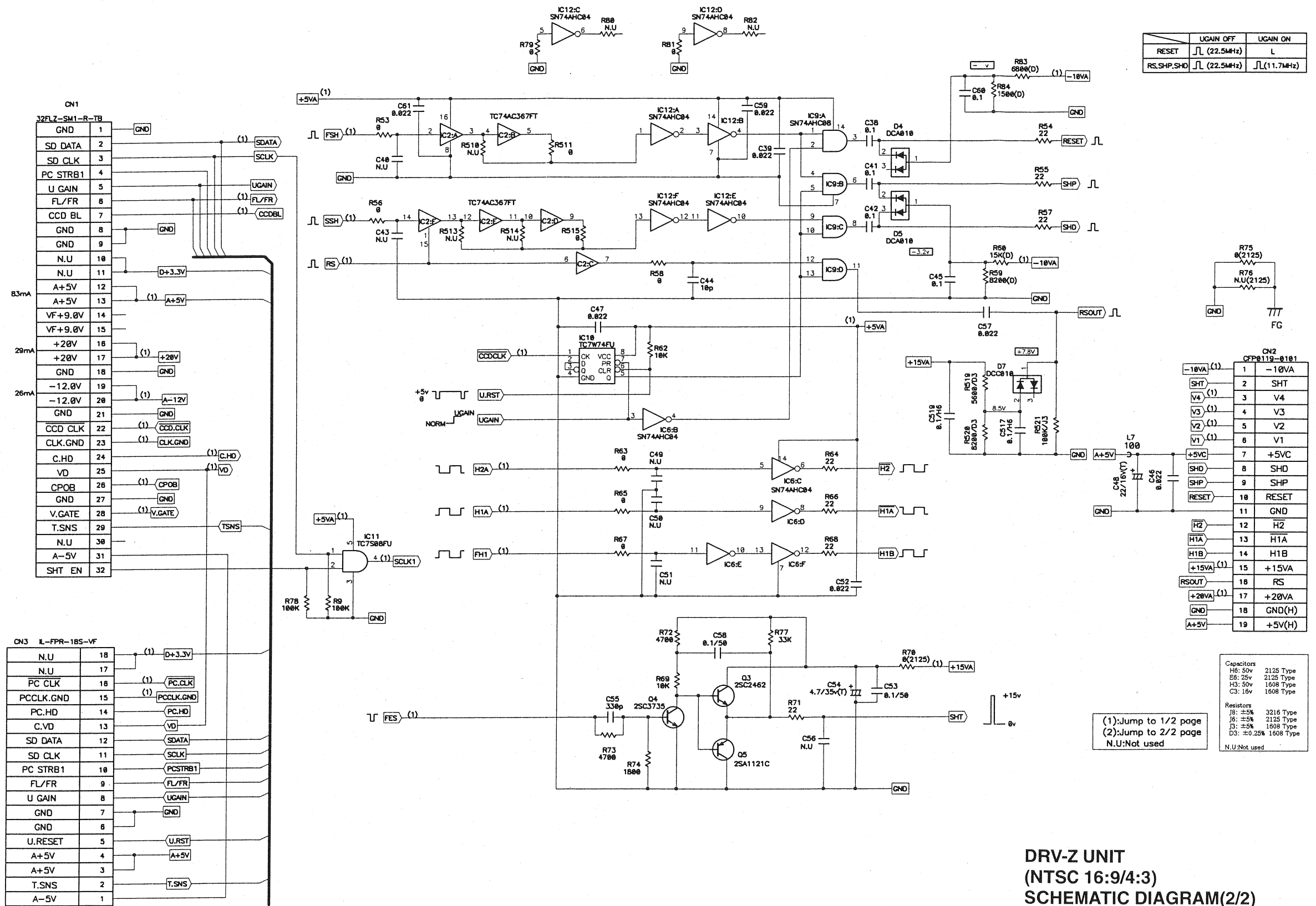


SNS-R(PT-1408):101-199
 SNS-G(PT-1423):201-299
 SNS-B(PT-1420):301-399

**SNS-R/G/B UNIT
 (NTSC 16:9/4:3)
 SCHEMATIC DIAGRAM**



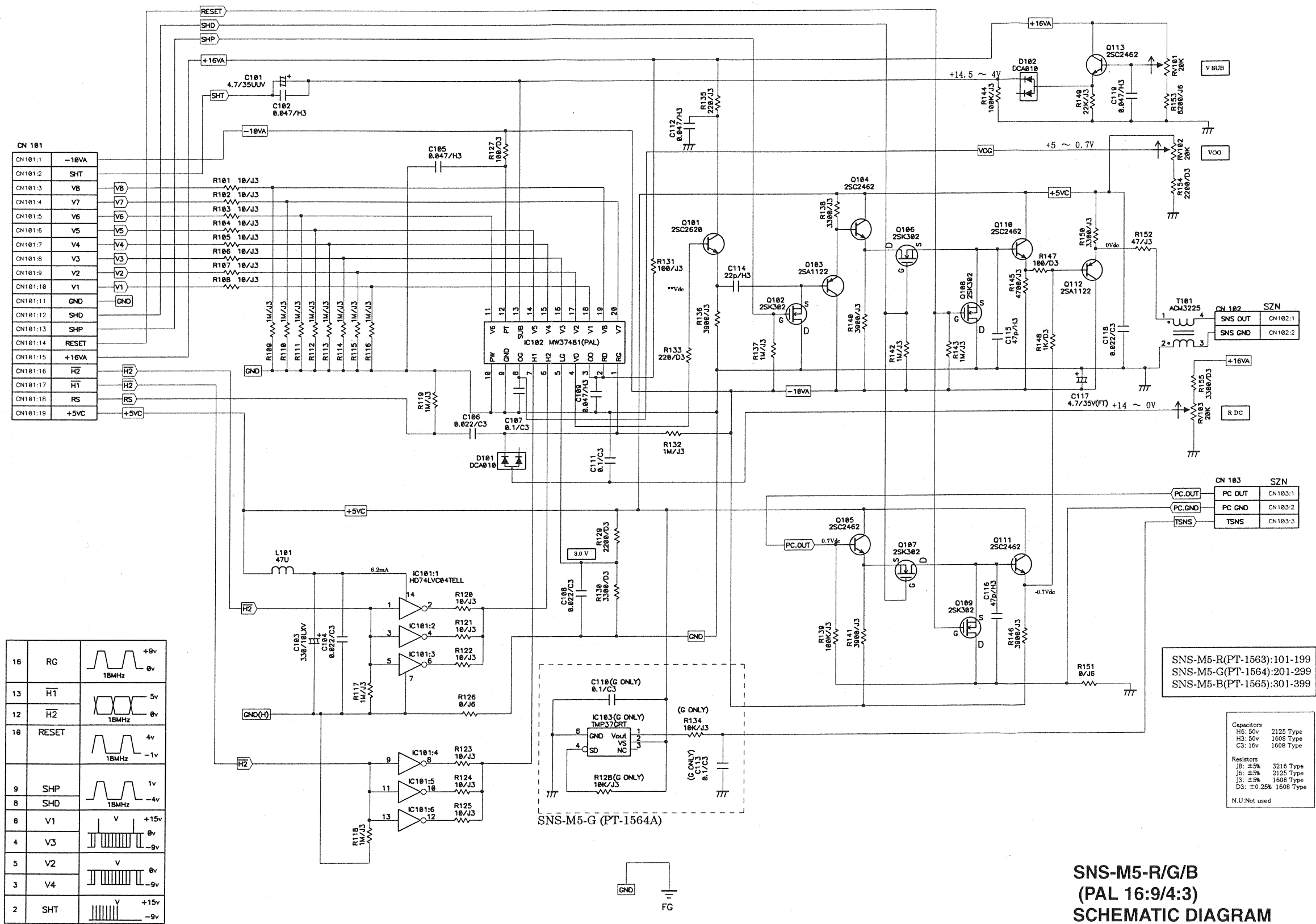
**DRV-Z UNIT
(NTSC 16:9/4:3)
SCHEMATIC DIAGRAM(1/2)**



	UGAIN OFF	UGAIN ON
RESET		L
RS,SHP,SHD		

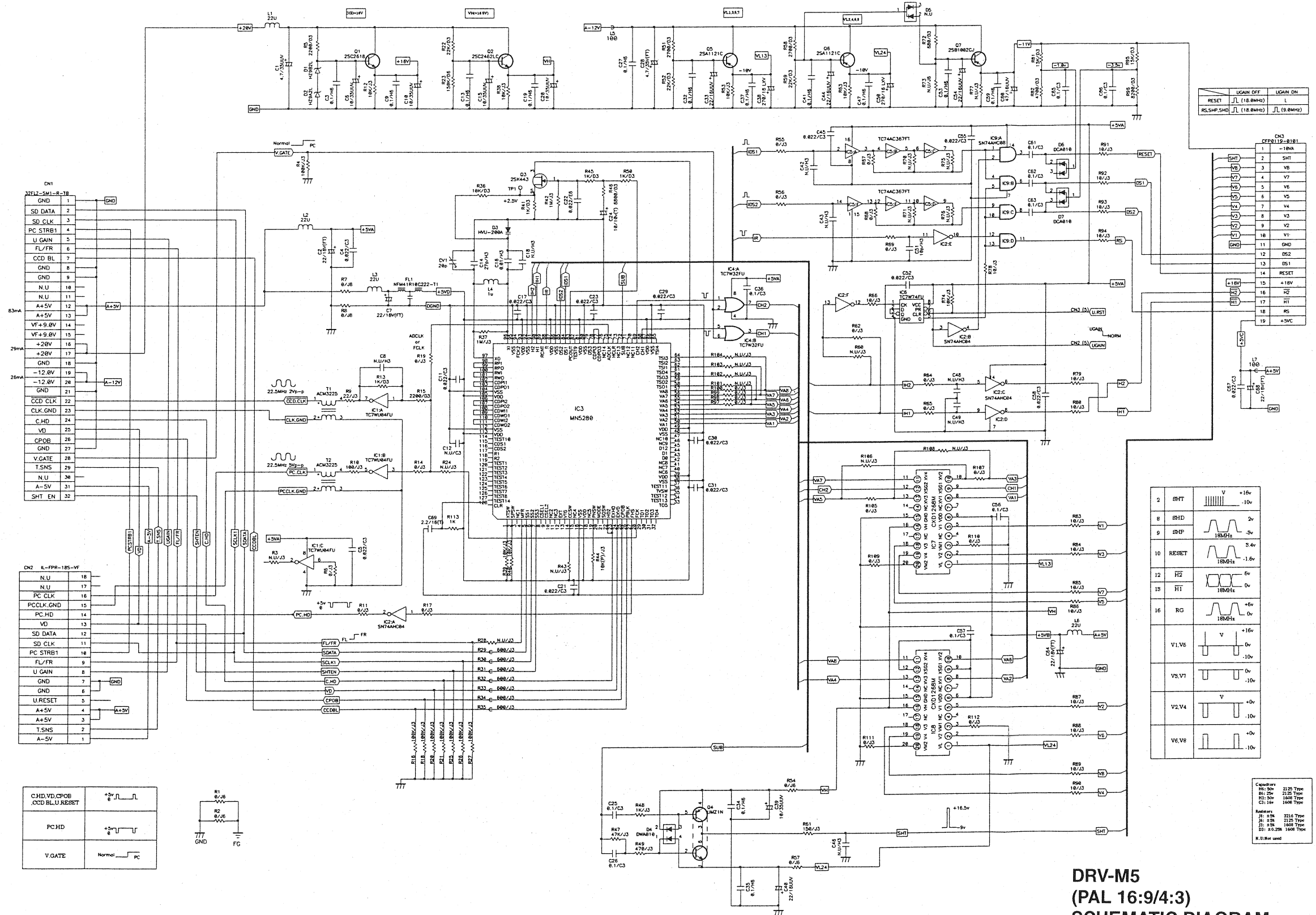
CN2		CFP8119-0101	
-10VA	(1)	1	-10VA
SHT	(1)	2	SHT
V4	(1)	3	V4
V3	(1)	4	V3
V2	(1)	5	V2
V1	(1)	6	V1
+5VC	(1)	7	+5VC
SHD	(1)	8	SHD
SHP	(1)	9	SHP
RESET	(1)	10	RESET
GND	(1)	11	GND
H2	(1)	12	H2
H1A	(1)	13	H1A
H1B	(1)	14	H1B
+15VA	(1)	15	+15VA
+15VA	(1)	16	RS
+20VA	(1)	17	+20VA
GND	(1)	18	GND(H)
A+5V	(1)	19	+5V(H)

**DRV-Z UNIT
 (NTSC 16:9/4:3)
 SCHEMATIC DIAGRAM(2/2)**



16	RG	
13	H1	
12	H2	
10	RESET	
9	SHP	
8	SHD	
6	V1	
4	V3	
5	V2	
3	V4	
2	SHT	

**SNS-M5-R/G/B
(PAL 16:9/4:3)
SCHEMATIC DIAGRAM**



CN1 3712-SM1-E-18

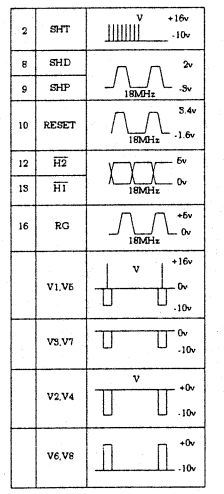
GND	1	
SD DATA	2	
SD CLK	3	
PC STRB1	4	
U GAIN	5	
FL/FR	6	
CCD BL	7	
GND	8	
N.U	9	
N.U	10	
N.U	11	
A+5V	12	
VF+9.0V	13	
VF+9.0V	14	
+20V	15	
+20V	16	
+20V	17	
GND	18	
-12.0V	19	
-12.0V	20	
GND	21	
CCD CLK	22	
CLK.GND	23	
C.HD	24	
VD	25	
CPOB	26	
GND	27	
V.GATE	28	
T.SNS	29	
N.U	30	
A-5V	31	
SHT EN	32	

CN2 E-FPR-125-VT

N.U	18	
N.U	17	
PC CLK	16	
PCCLK.GND	15	
PC.HD	14	
VD	13	
SD DATA	12	
SD CLK	11	
PC STRB1	10	
U GAIN	9	
GND	8	
U.RESET	5	
A+5V	4	
A+5V	3	
T.SNS	2	
A-5V	1	

C.HD,VD,CPOB CCD BL,U.RESET	+3V
PC.HD	+3V
V.GATE	Normal

LGAIN OFF	LGAIN ON
RESET	L (18.0MHz)
RS.SHP.SHD	L (18.0MHz)
	L (9.0MHz)



Capacitors

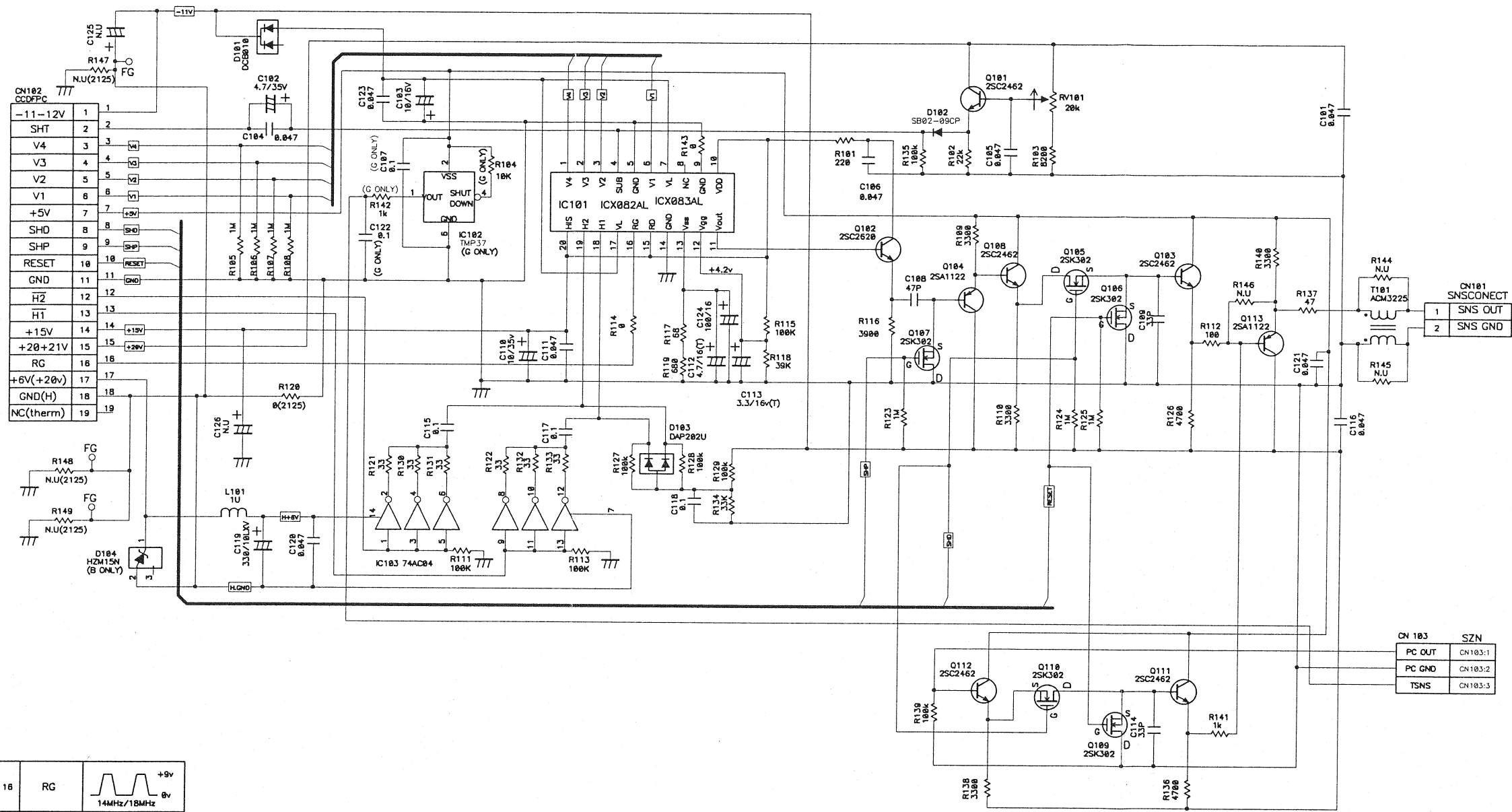
C1: 20v	2125 Type
C2: 20v	2125 Type
C3: 10v	1608 Type
C4: 10v	1608 Type

Resistors

R1: 50v	3216 Type
R2: 50v	2125 Type
R3: 50v	1608 Type
R4: 50v	1608 Type

N.B: Refer used

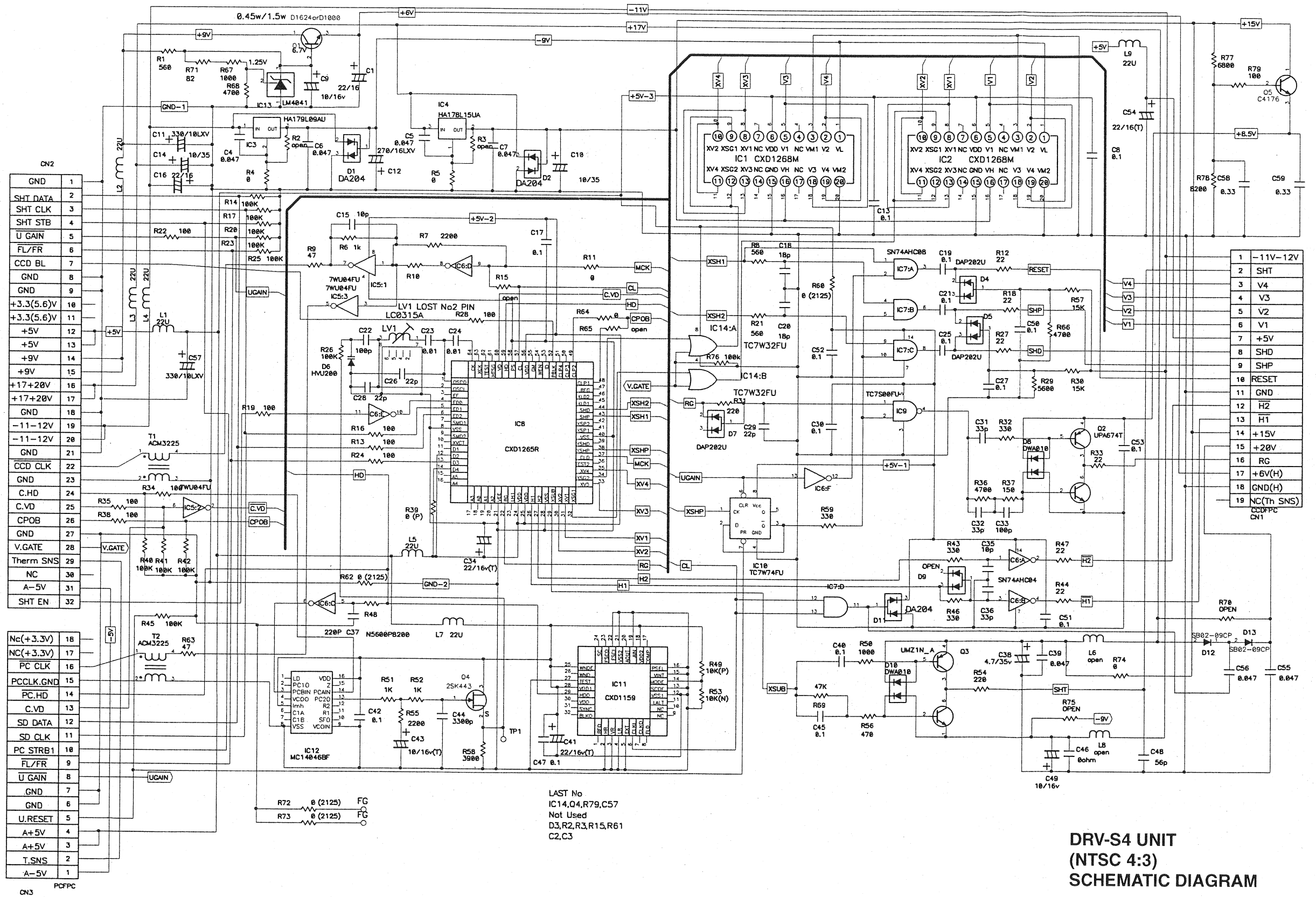
**DRV-M5
(PAL 16:9/4:3)
SCHEMATIC DIAGRAM**



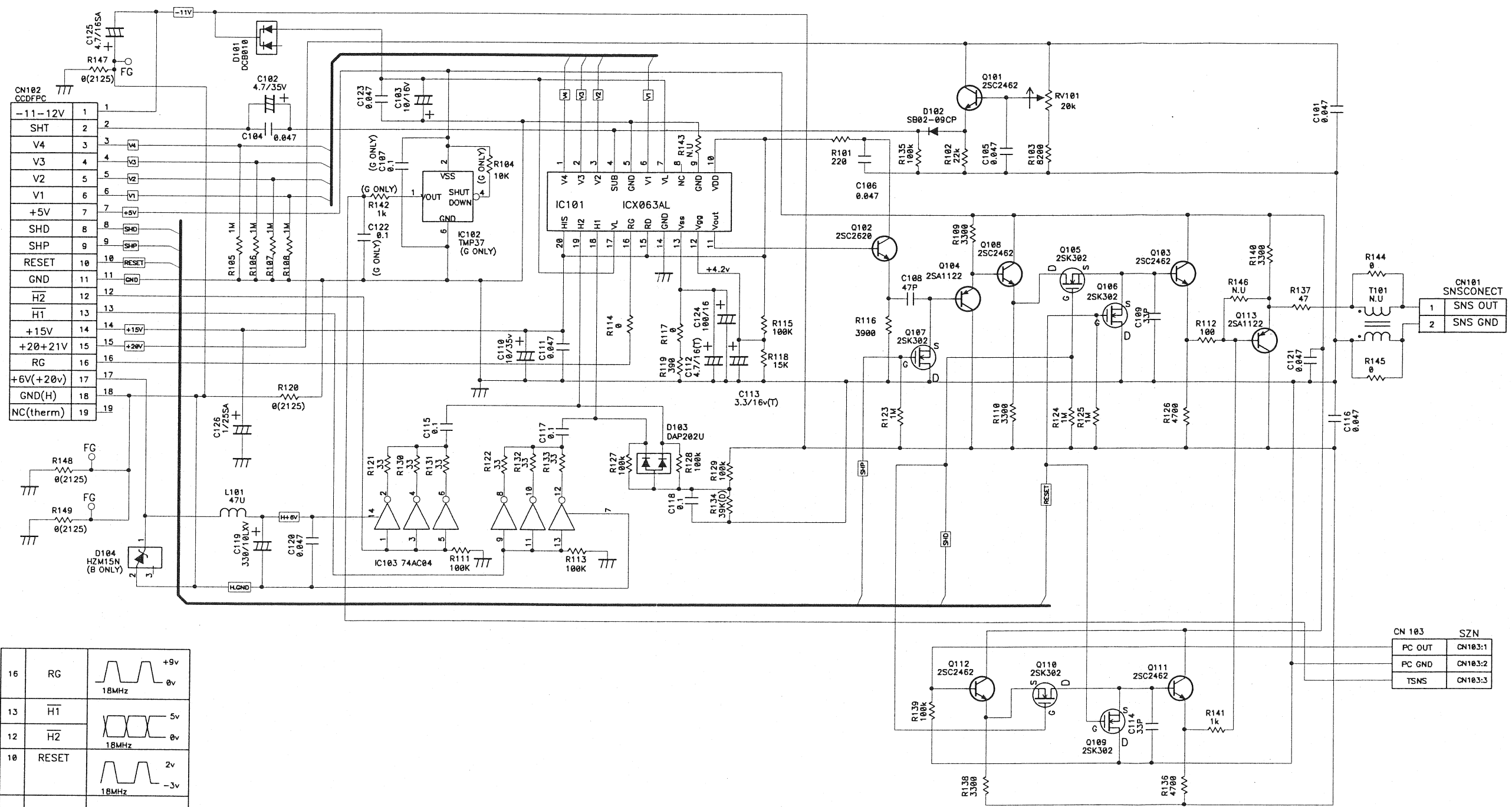
16	RG	
13	H1	
12	H2	
18	RESET	
9	SHP	
8	SHD	
6	V1	
4	V3	
5	V2	
3	V4	
2	SHT	

SNS-R(PT-1494C8664878):101-199 d#8658843
 SNS-G(PT-1495C8664879):201-299 d#8658844
 SNS-B(PT-1496C8664880):301-399 d#8658845

**SNS-SR/SG/SB UNIT
 (NTSC 4:3)
 SCHEMATIC DIAGRAM**



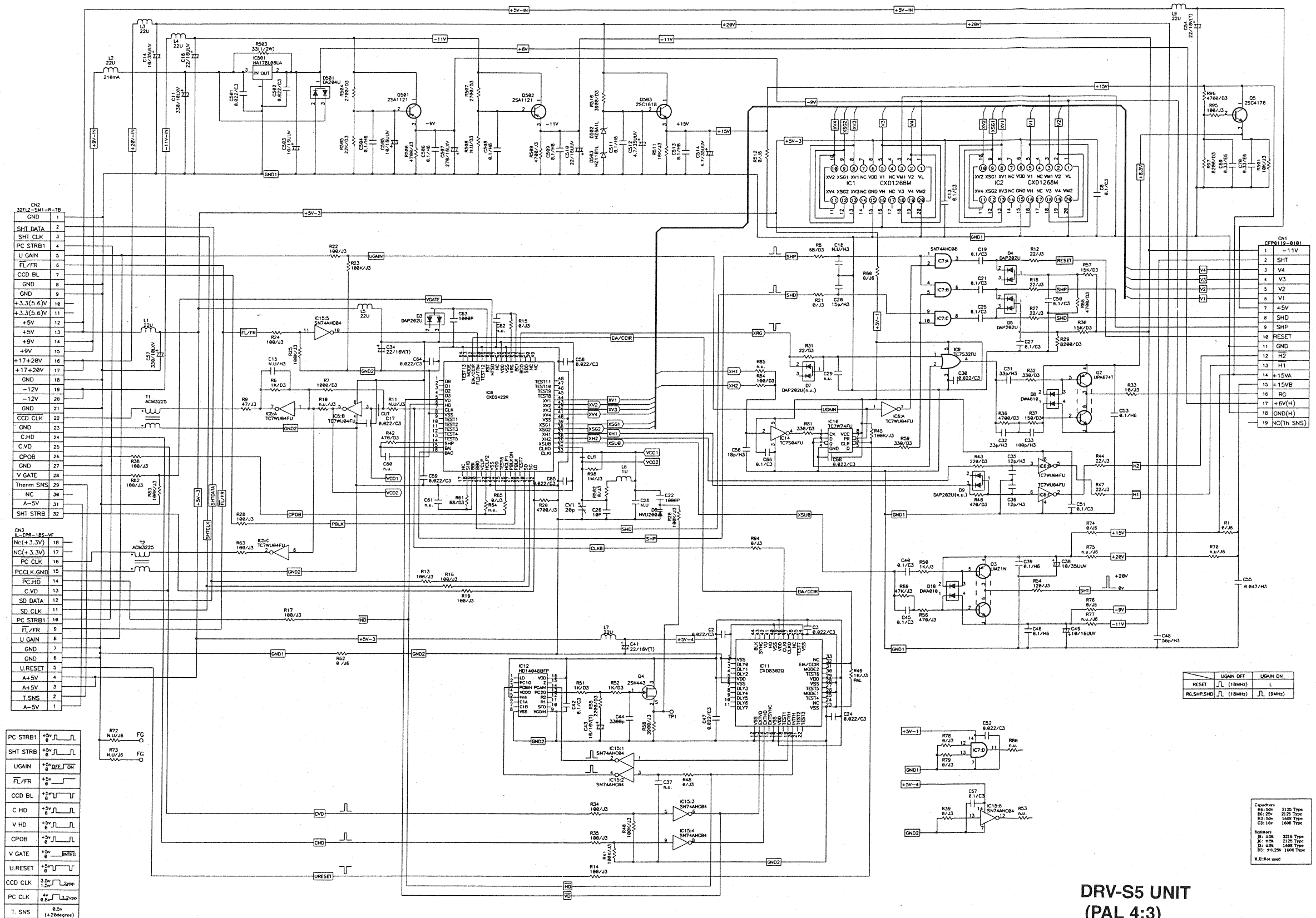
DRV-S4 UNIT (NTSC 4:3) SCHEMATIC DIAGRAM



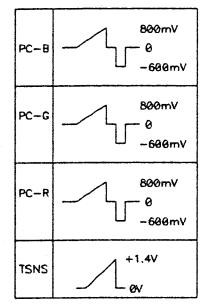
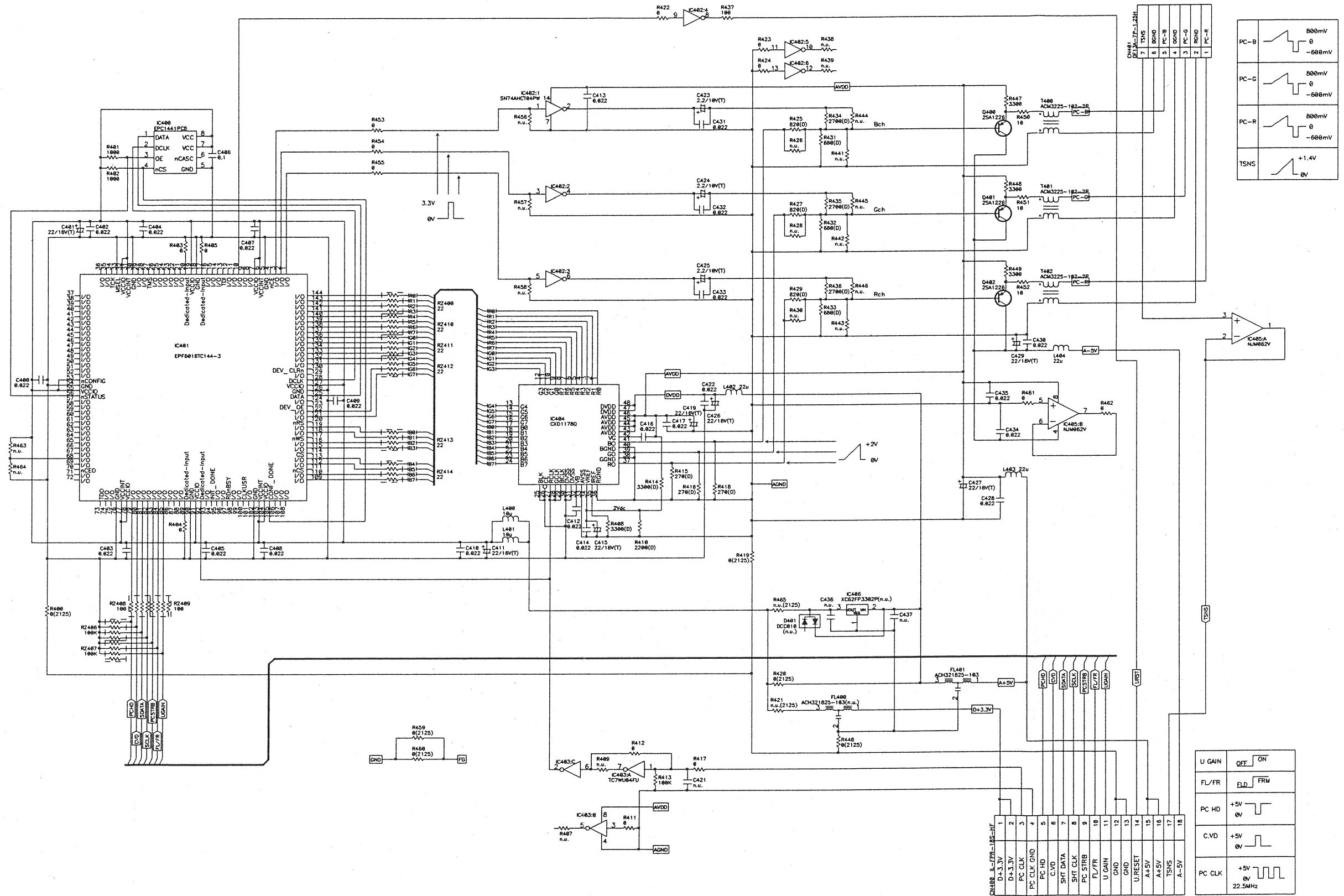
16	RG	
13	H1	
12	H2	
18	RESET	
9	SHP	
8	SHD	
6	V1	
4	V3	
5	V2	
3	V4	
2	SHT	

SNS-R(PT-1494C8664878):101-199 d#8658843
 SNS-G(PT-1495C8664879):201-299 d#8658844
 SNS-B(PT-1496C8664880):301-399 d#8658845

**SNS-SR/SG/SB UNIT
 (PAL 4:3)
 SCHEMATIC DIAGRAM**

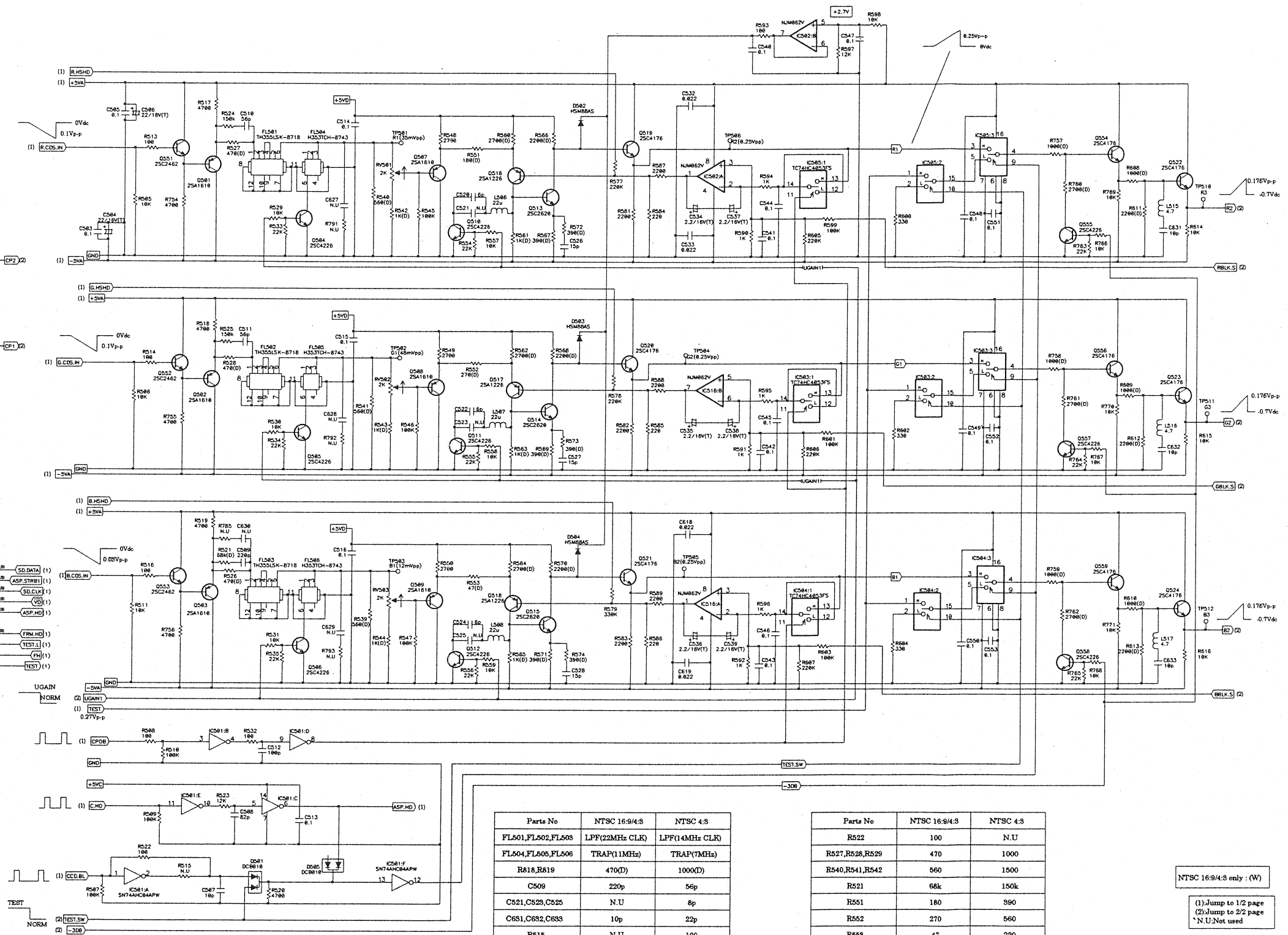
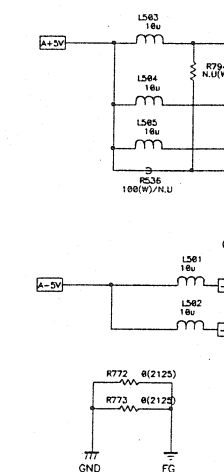
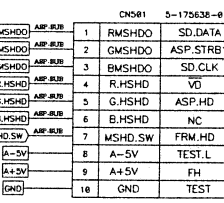
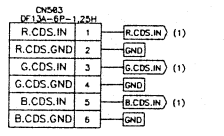
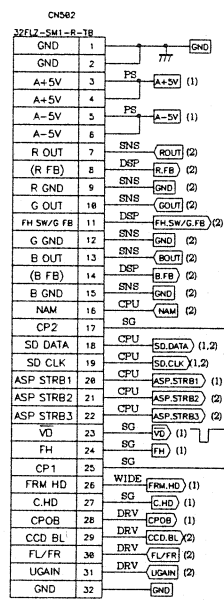


**DRV-S5 UNIT
(PAL 4:3)
SCHEMATIC DIAGRAM**



U GAIN	OFF	ON
FL/FR	FLD	FRM
PC HD	+5V	0V
C.VD	+5V	0V
PC CLK	+5V	0V
	22.5MHz	

PC UNIT SCHEMATIC DIAGRAM

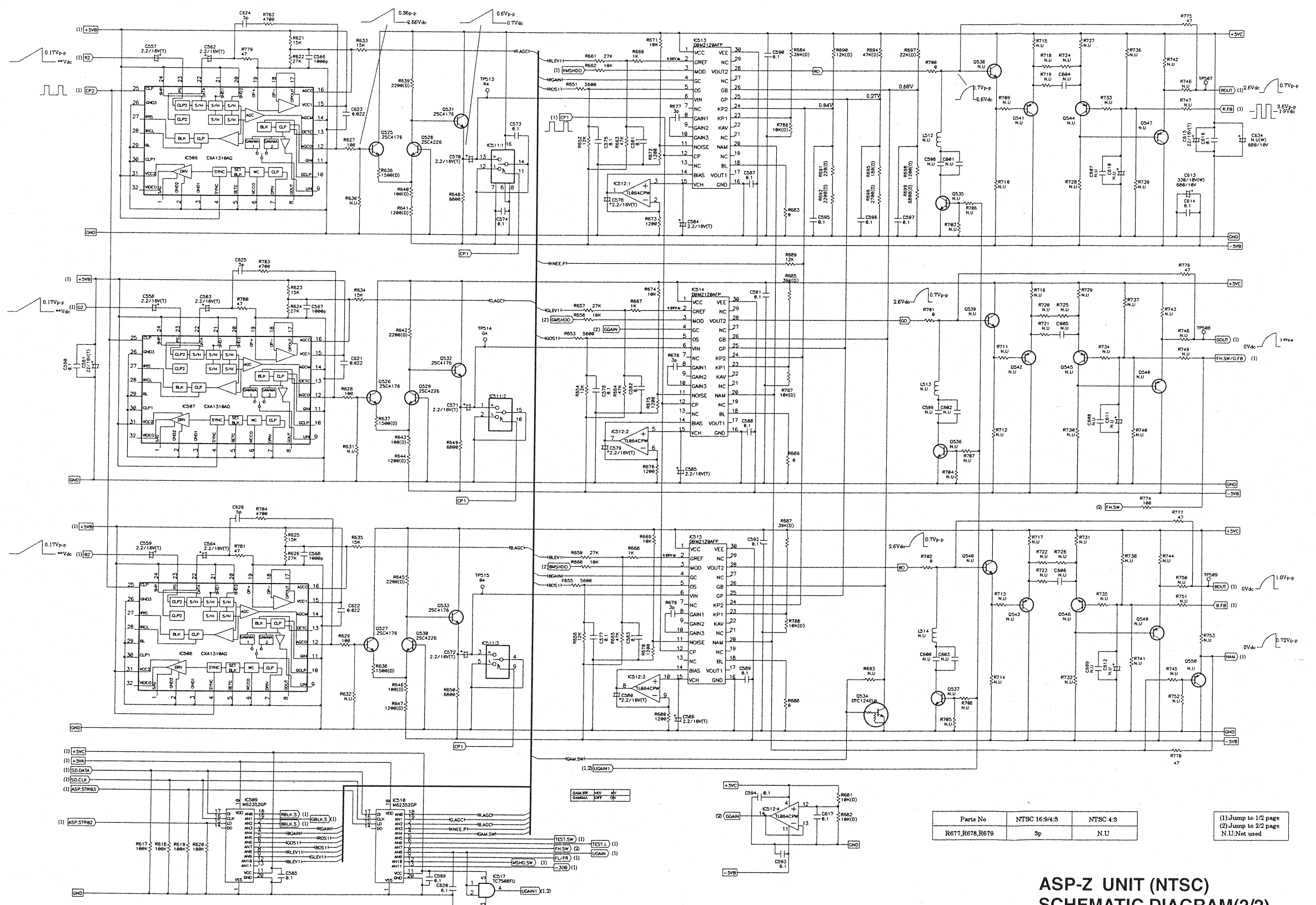


Parts No	NTSC 16:9/4:3	NTSC 4:3
FL501,FL502,FL508	LFPF(22MHz CLK)	LFPF(14MHz CLK)
FL504,FL505,FL506	TRAP(11MHz)	TRAP(7MHz)
R618,R619	470(D)	1000(D)
C509	220p	56p
C521,C525,C525	N.U	8p
C631,C632,C633	10p	22p
R515	N.U	100

Parts No	NTSC 16:9/4:3	NTSC 4:3
R522	100	N.U
R527,R528,R529	470	1000
R540,R541,R542	560	1500
R521	68k	150k
R551	180	380
R552	270	560
R553	47	220

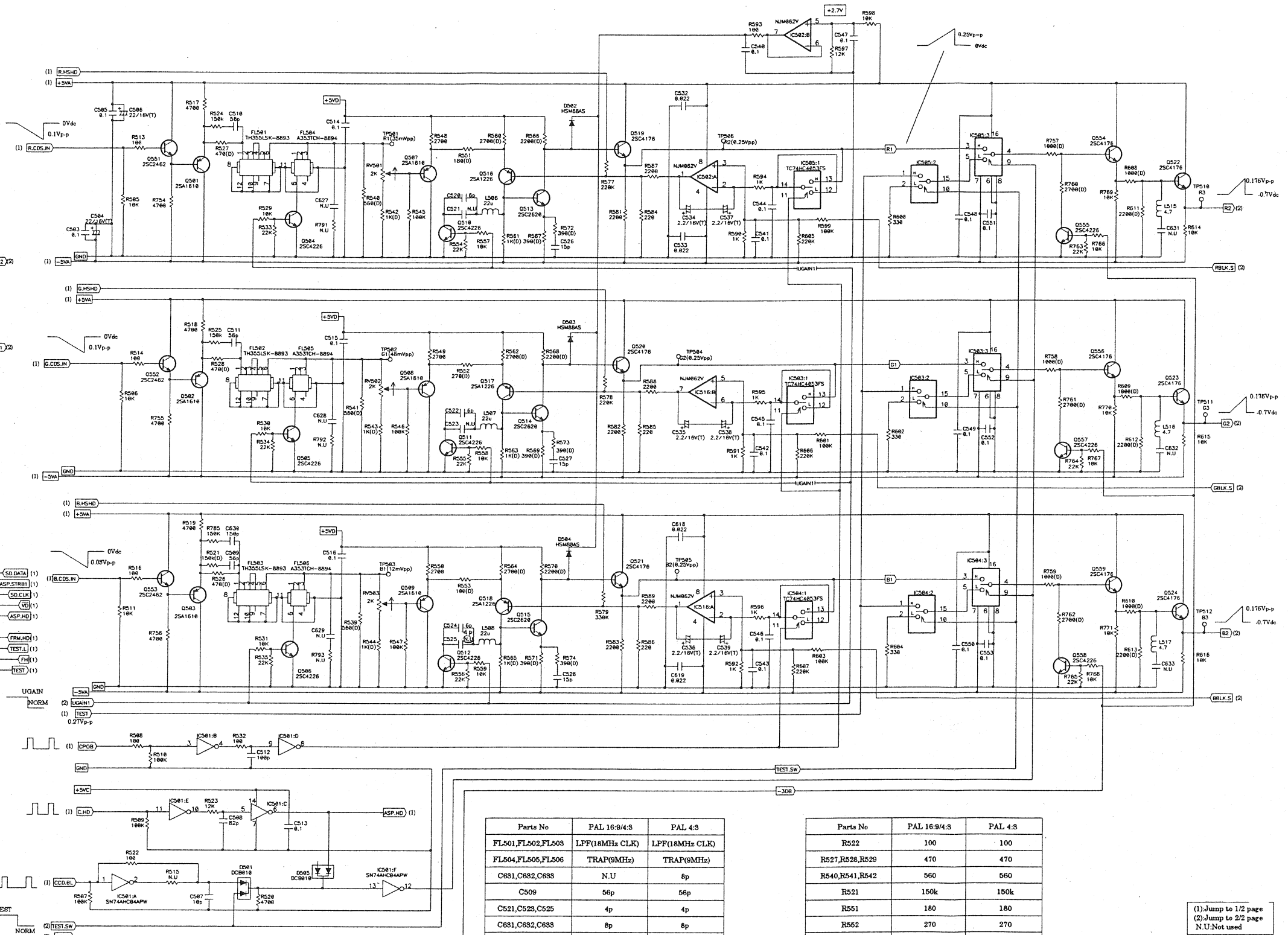
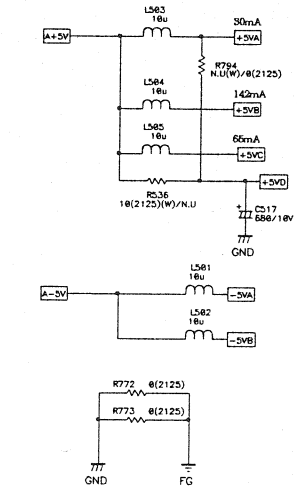
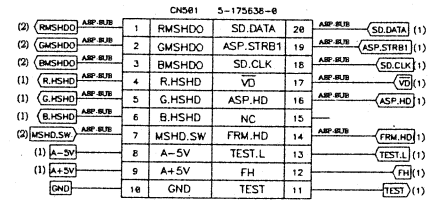
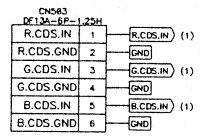
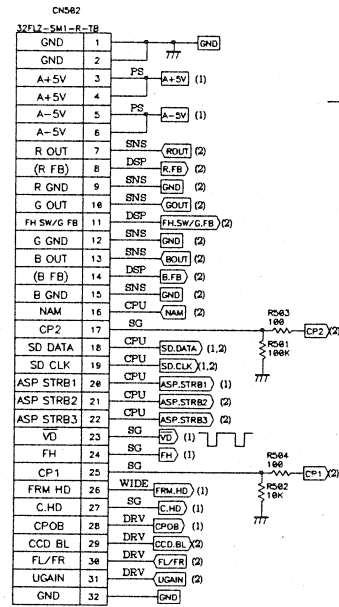
NTSC 16:9/4:3 only : (W)
 (1) Jump to 1/2 page
 (2) Jump to 2/2 page
 *N.U:Not used

ASP-Z UNIT (NTSC) SCHEMATIC DIAGRAM(1/2)



Parts No	NTSC 16:9/4:3	NTSC 4:3
R677,R678,R679	Sp	N.U

ASP-Z UNIT (NTSC)
SCHEMATIC DIAGRAM(2/2)

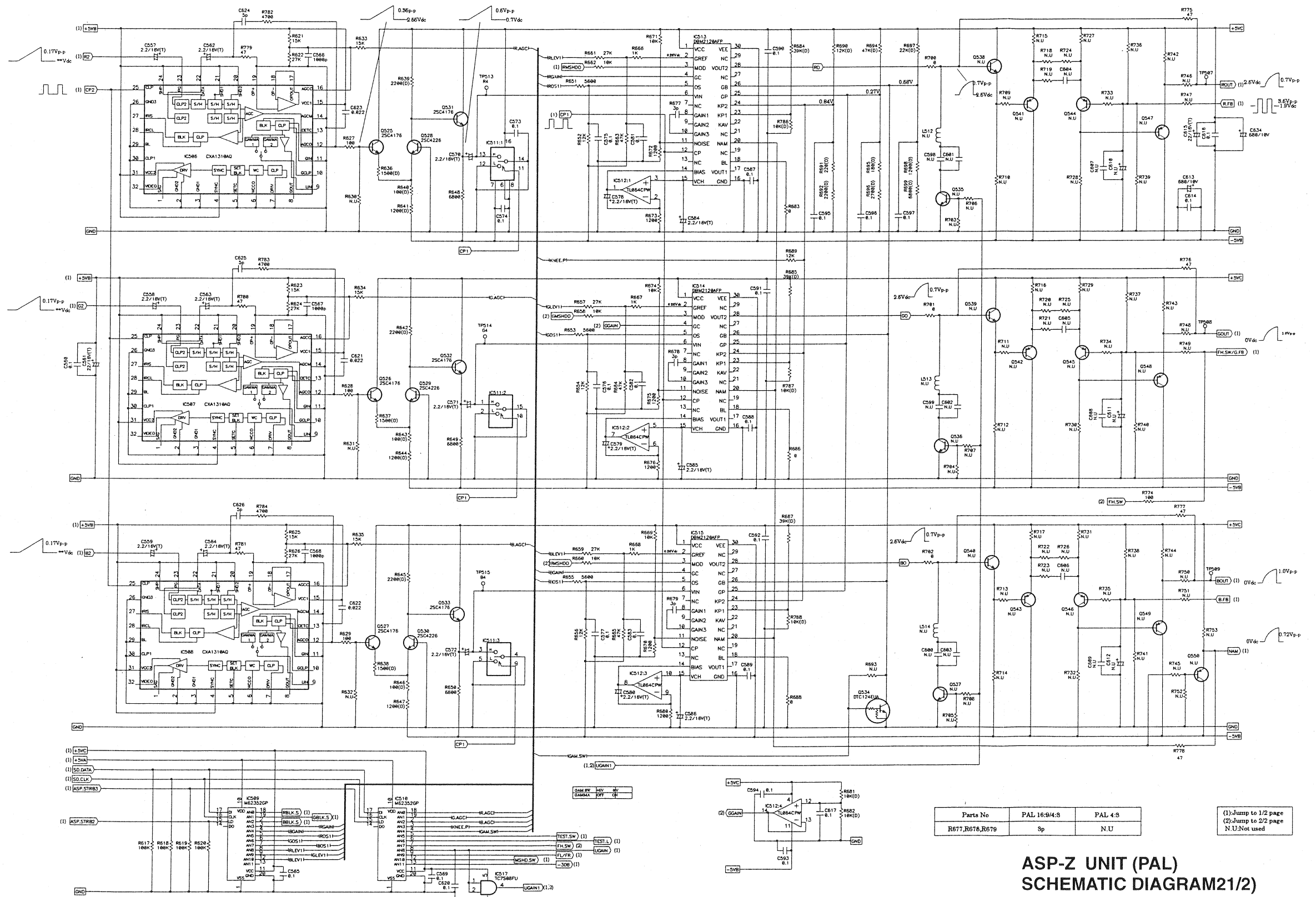


Parts No	PAL 16:9/4:3	PAL 4:3
FL501,FL502,FL503	LFP(18MHz CLK)	LFP(18MHz CLK)
FL504,FL505,FL506	TRAP(9MHz)	TRAP(9MHz)
C631,C632,C633	N.U	8p
C509	56p	56p
C521,C523,C525	4p	4p
C631,C632,C633	8p	8p
R515	N.U	N.U

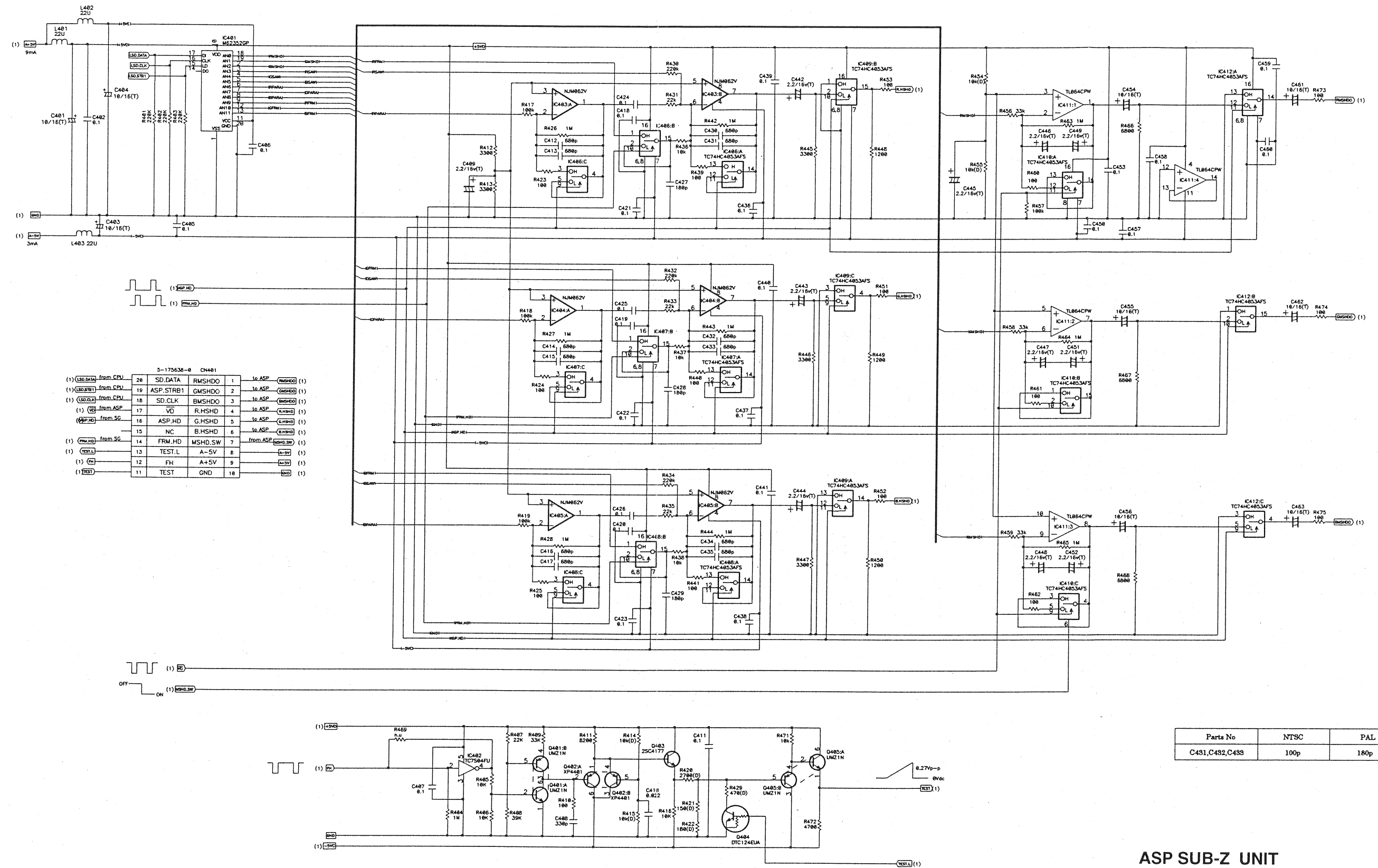
Parts No	PAL 16:9/4:3	PAL 4:3
R522	100	100
R527,R528,R529	470	470
R540,R541,R542	560	560
R521	150k	150k
R551	180	180
R552	270	270
R553	100	100

(1) Jump to 1/2 page
(2) Jump to 2/2 page
N.U: Not used

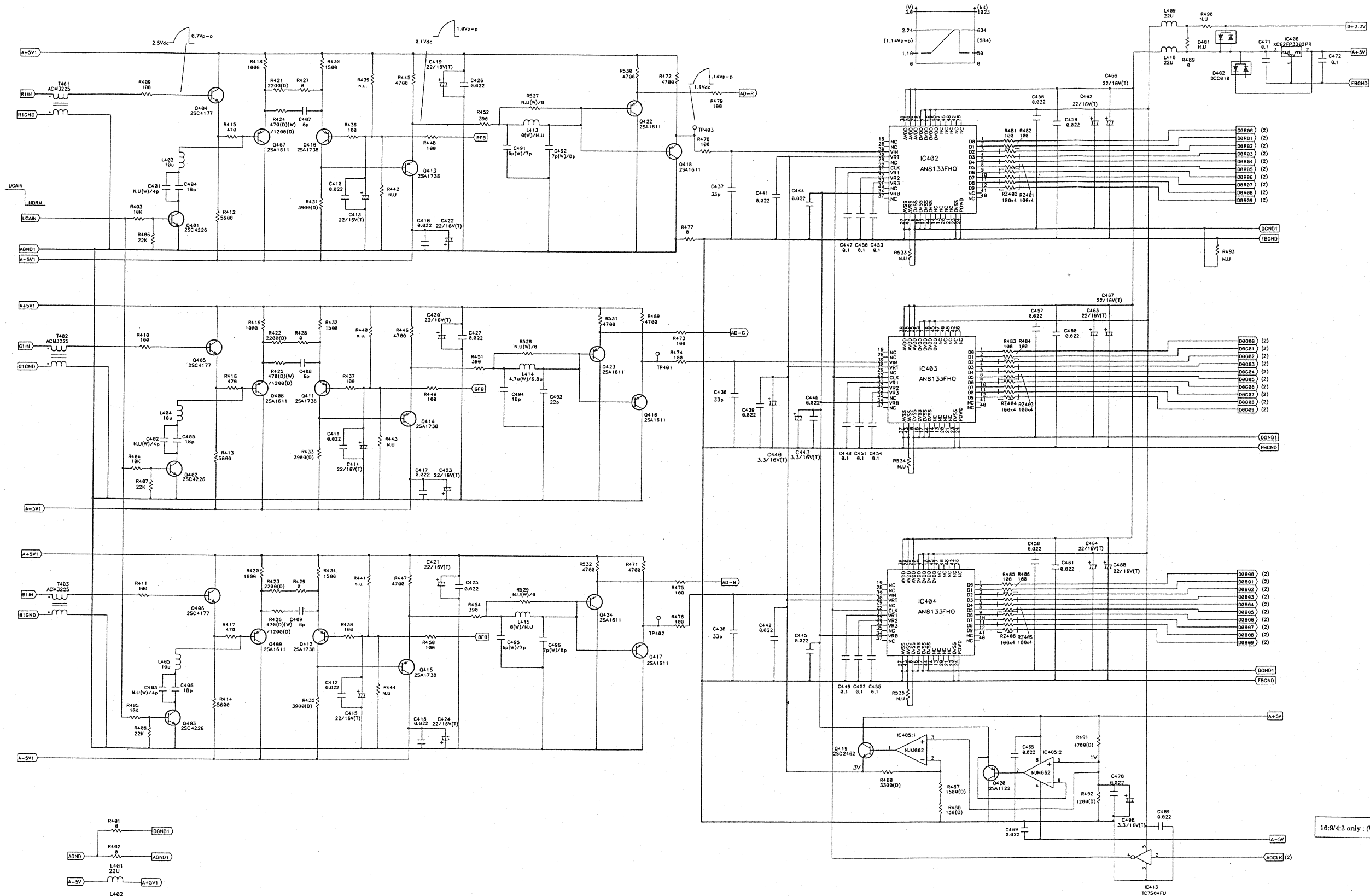
ASP-Z UNIT (PAL)
SCHEMATIC DIAGRAM(1/2)



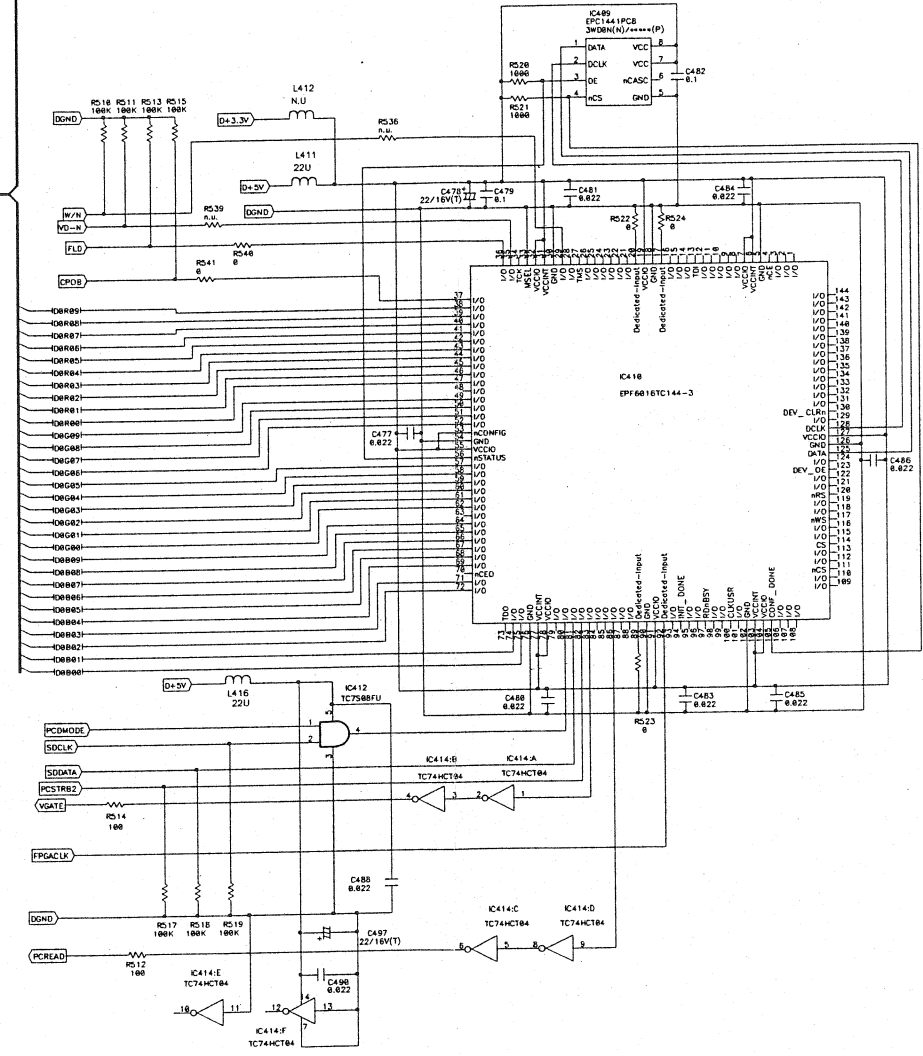
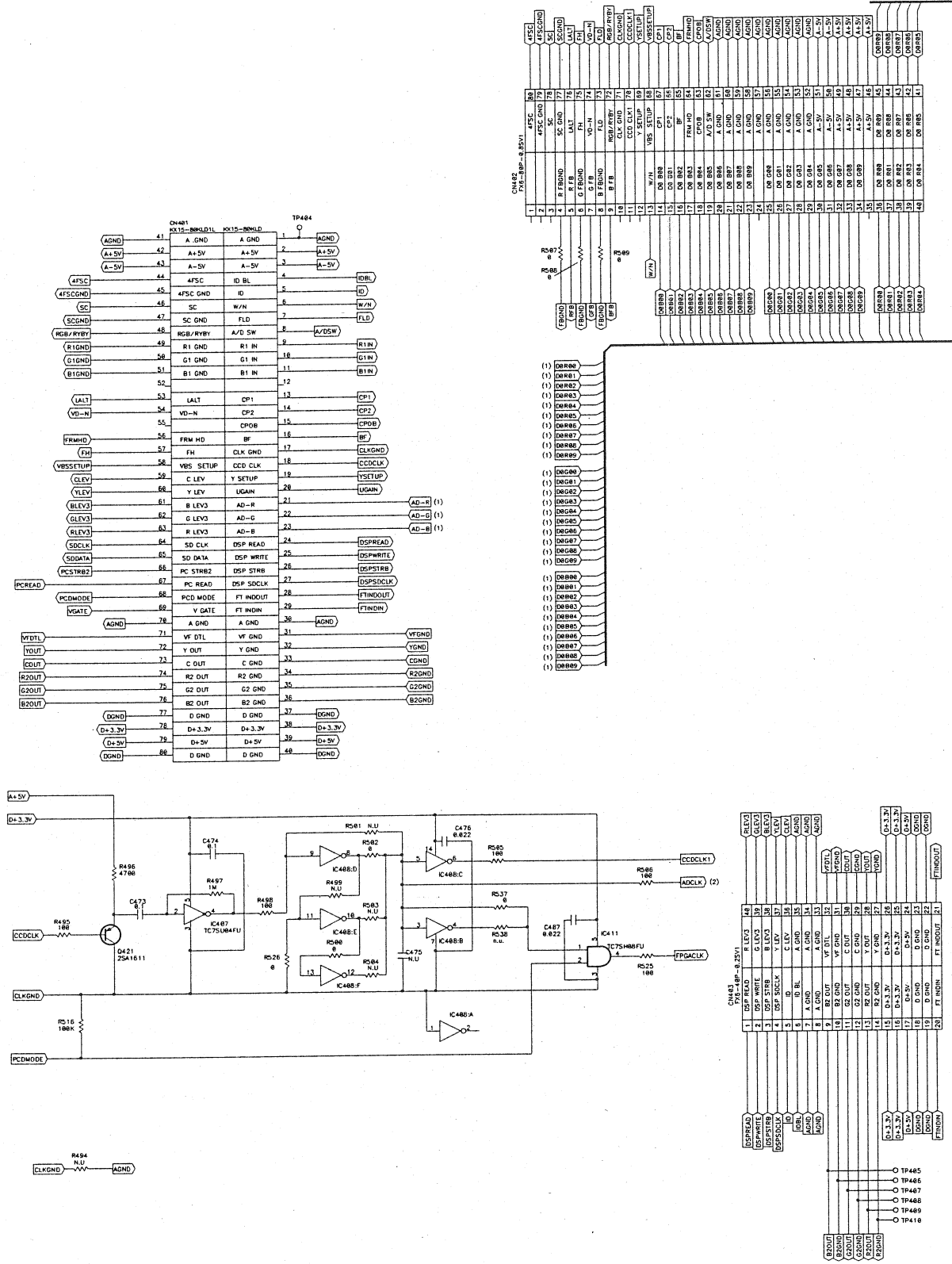
**ASP-Z UNIT (PAL)
SCHEMATIC DIAGRAM 21/2)**



ASP SUB-Z UNIT
SCHEMATIC DIAGRAM

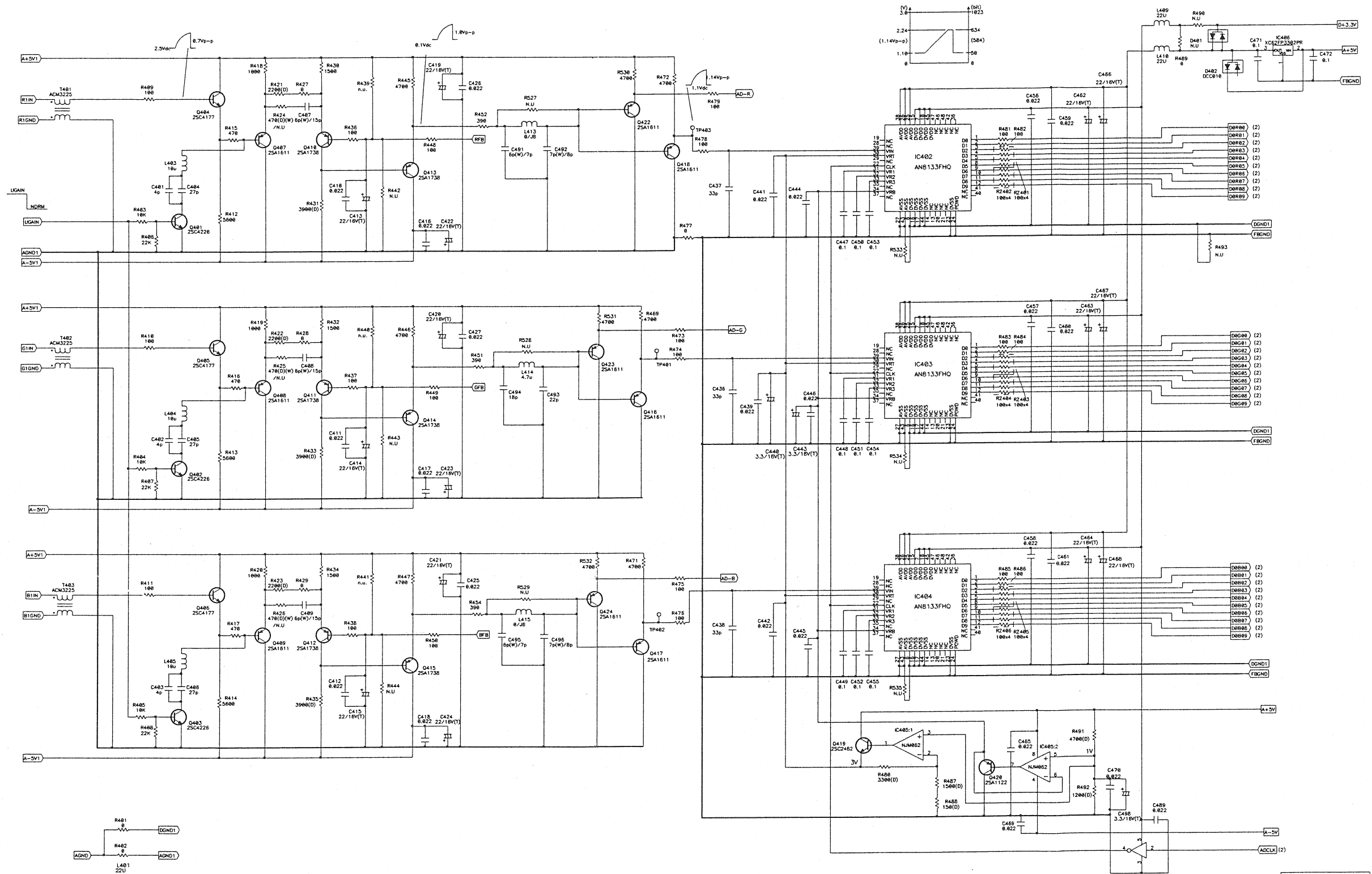


DSP-Z UNIT (NTSC)
SCHEMATIC DIAGRAM(1/2)



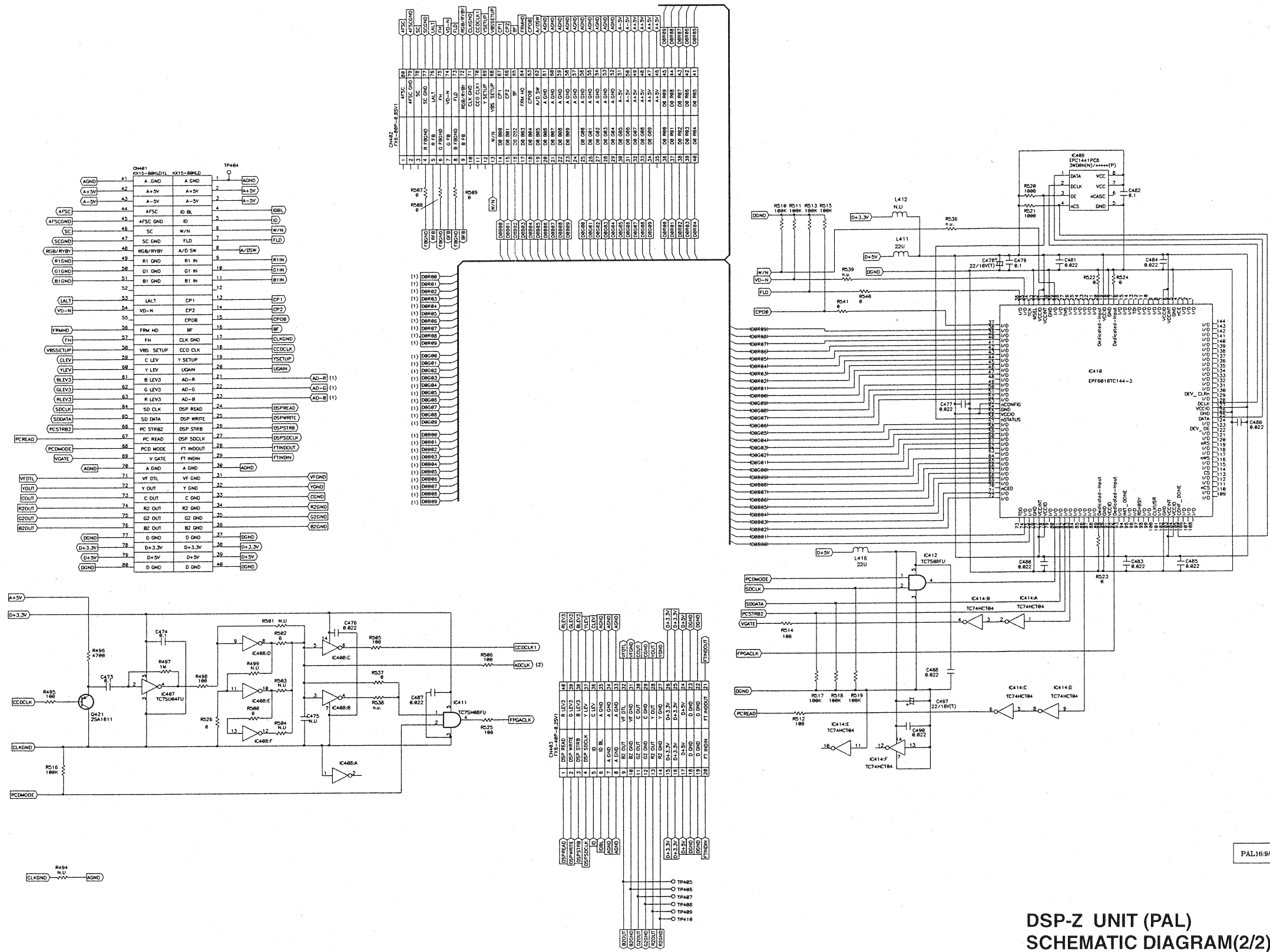
DSP-Z UNIT (NTSC)
SCHEMATIC DIAGRAM(2/2)

16:9/4:3 only: (W)



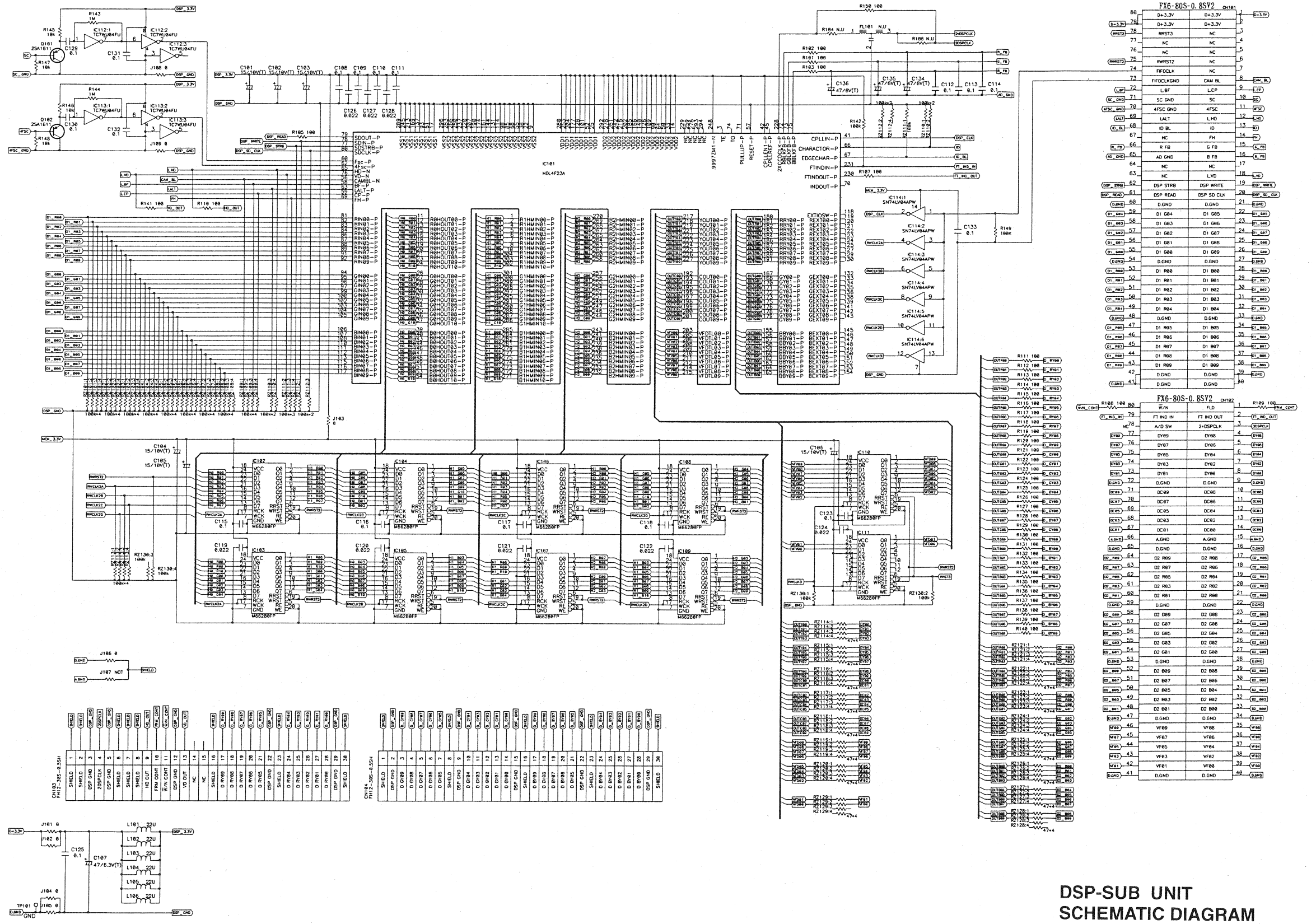
PAL16:9/4:5 only : (W)

DSP-Z UNIT (PAL)
SCHEMATIC DIAGRAM(1/2)

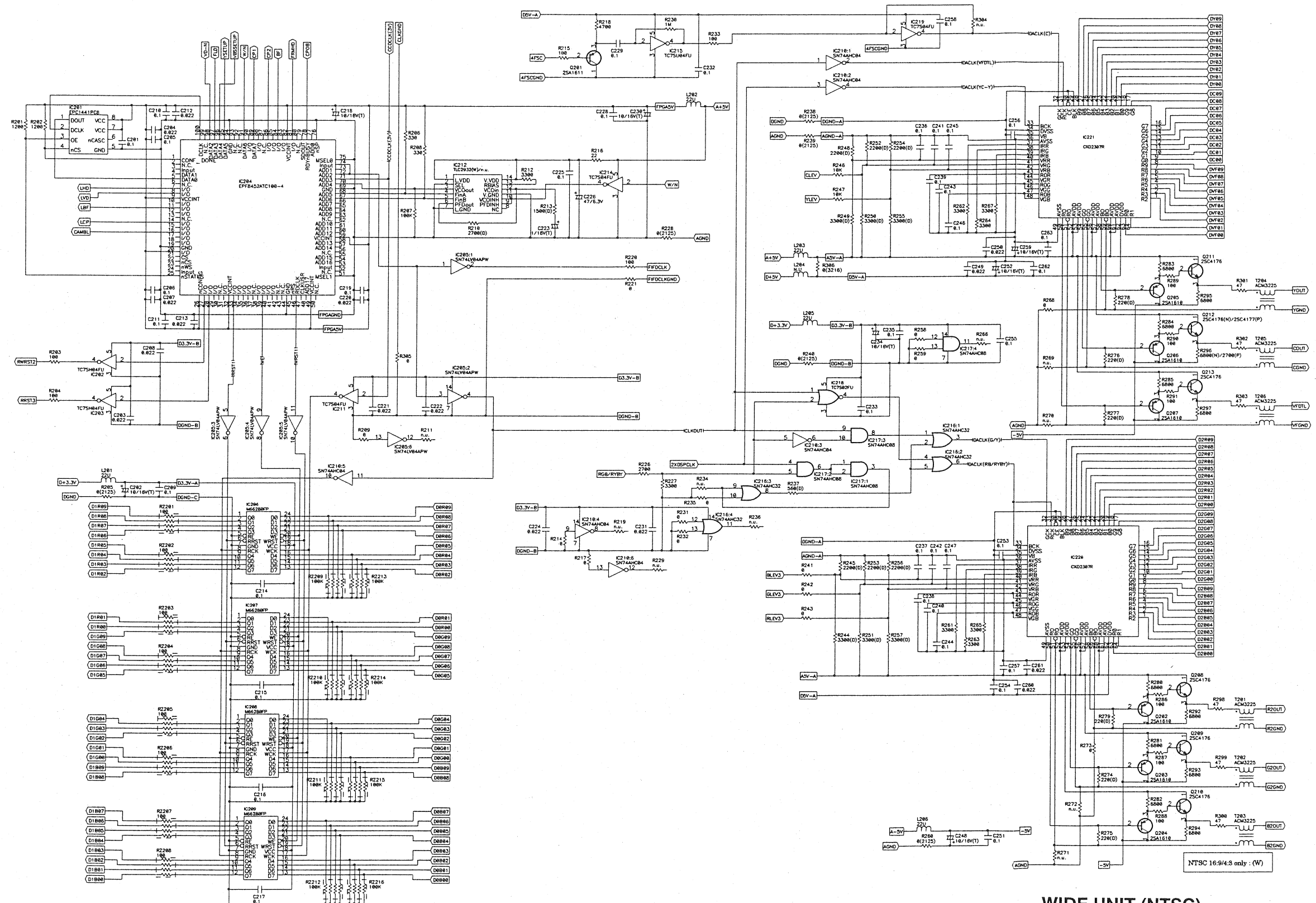


PAL16:9/4:3 only : (W)

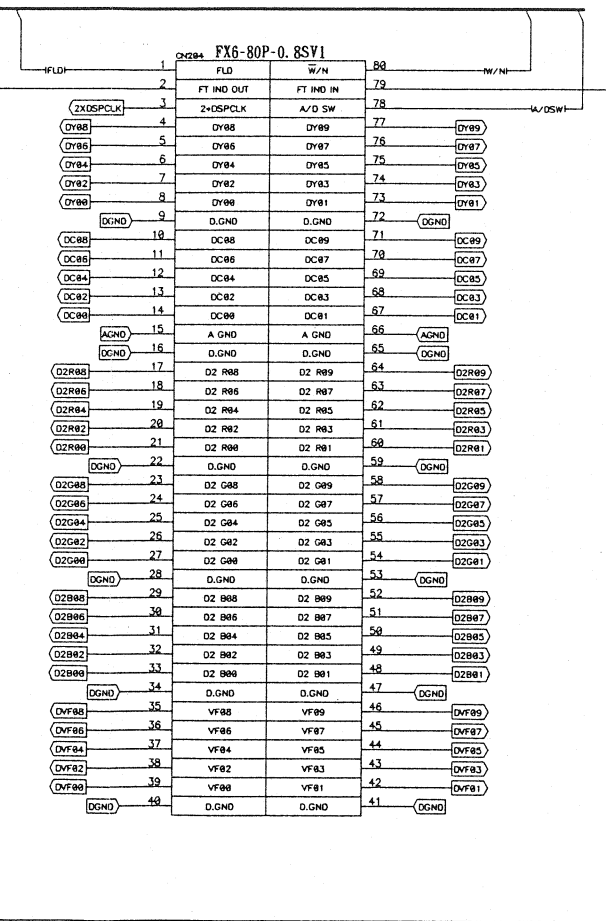
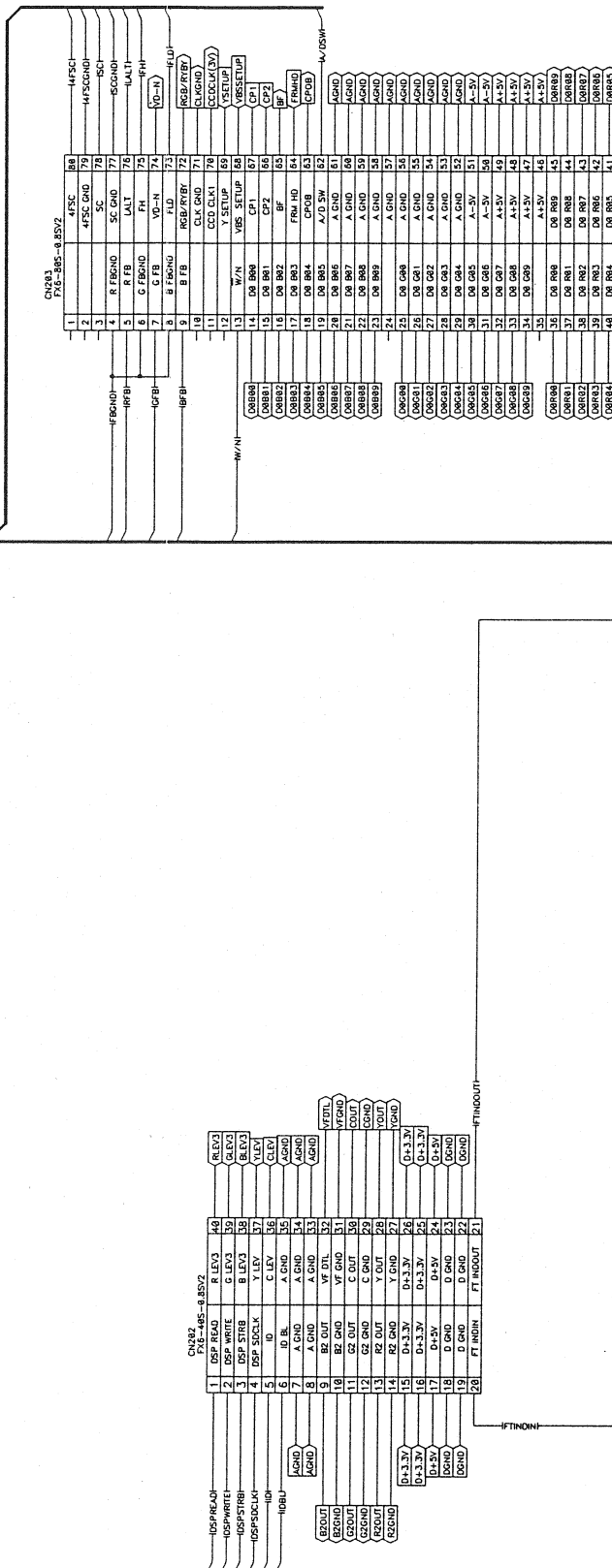
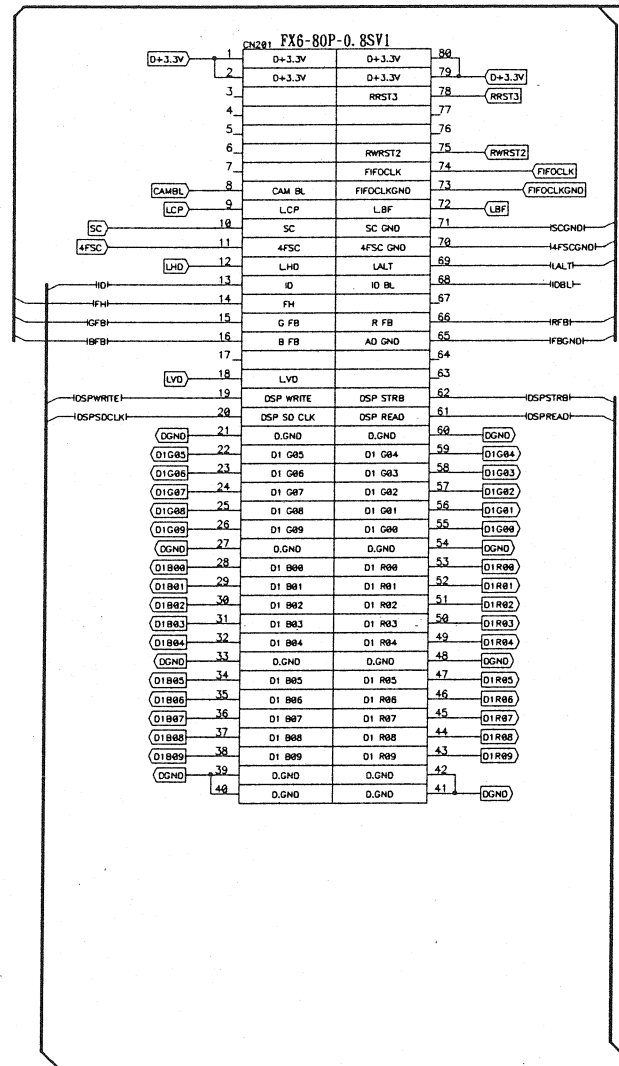
DSP-Z UNIT (PAL)
SCHEMATIC DIAGRAM(2/2)



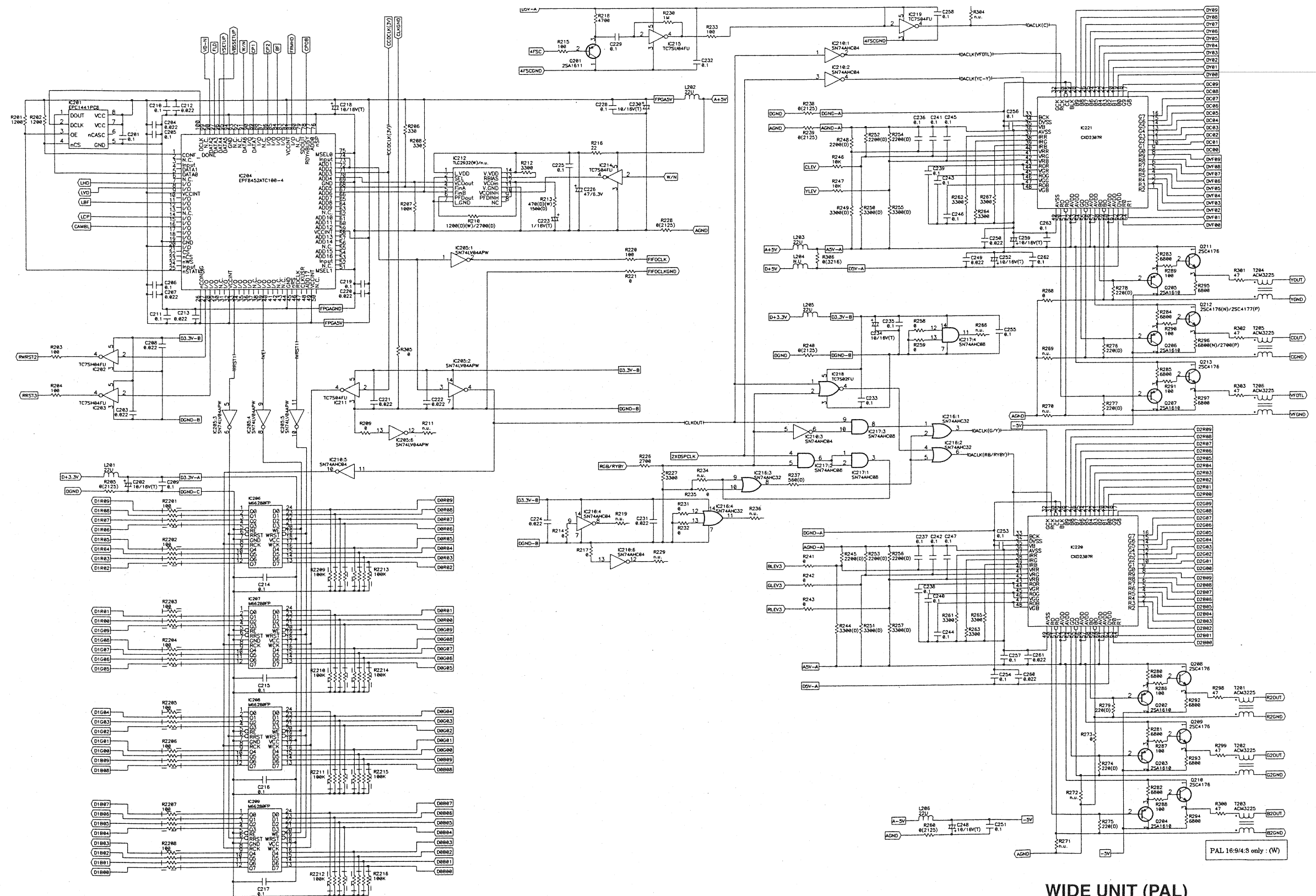
DSP-SUB UNIT SCHEMATIC DIAGRAM



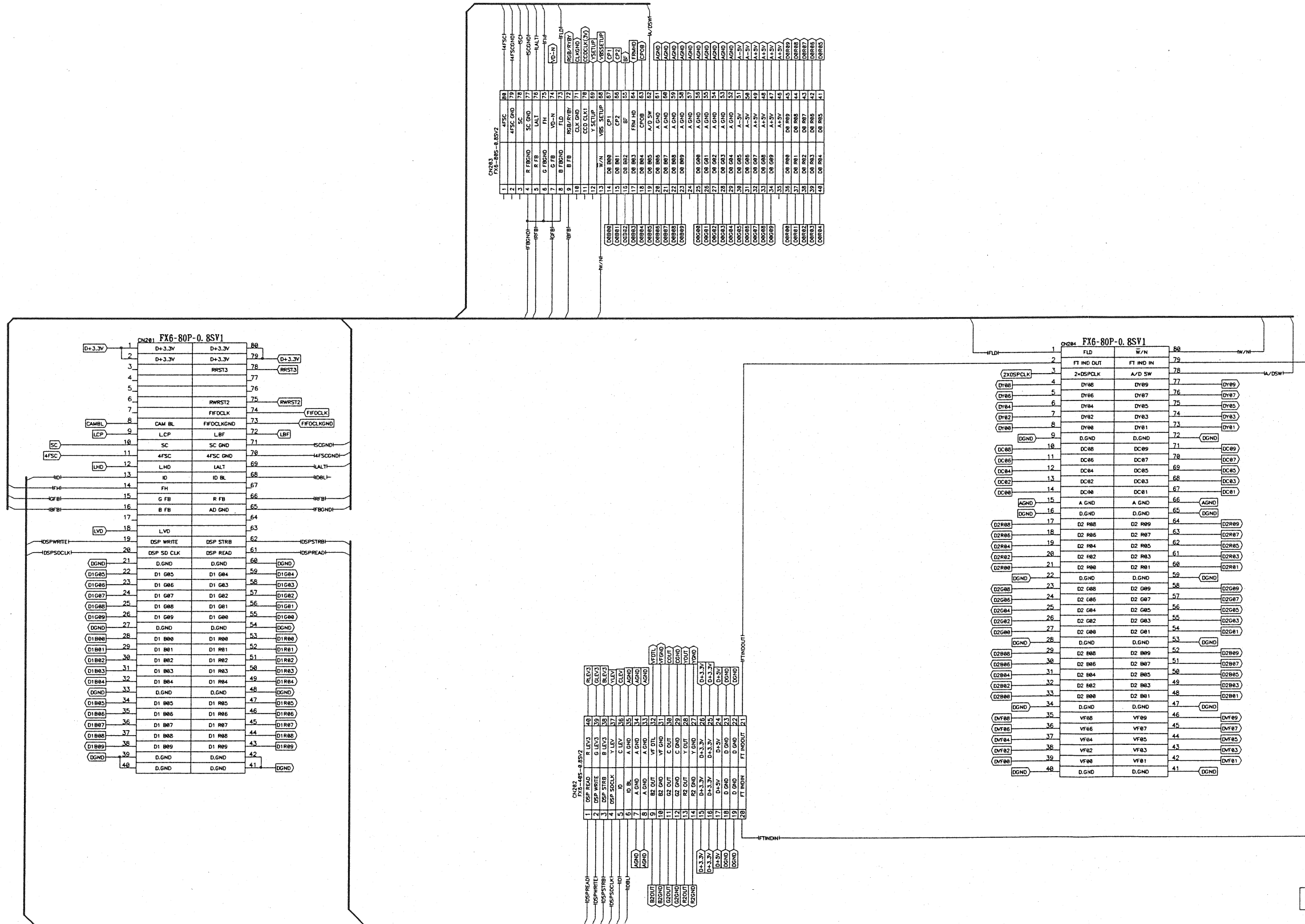
WIDE UNIT (NTSC)
SCHEMATIC DIAGRAM(1/2)



WIDE UNIT (NTSC)
SCHEMATIC DIAGRAM(2/2)

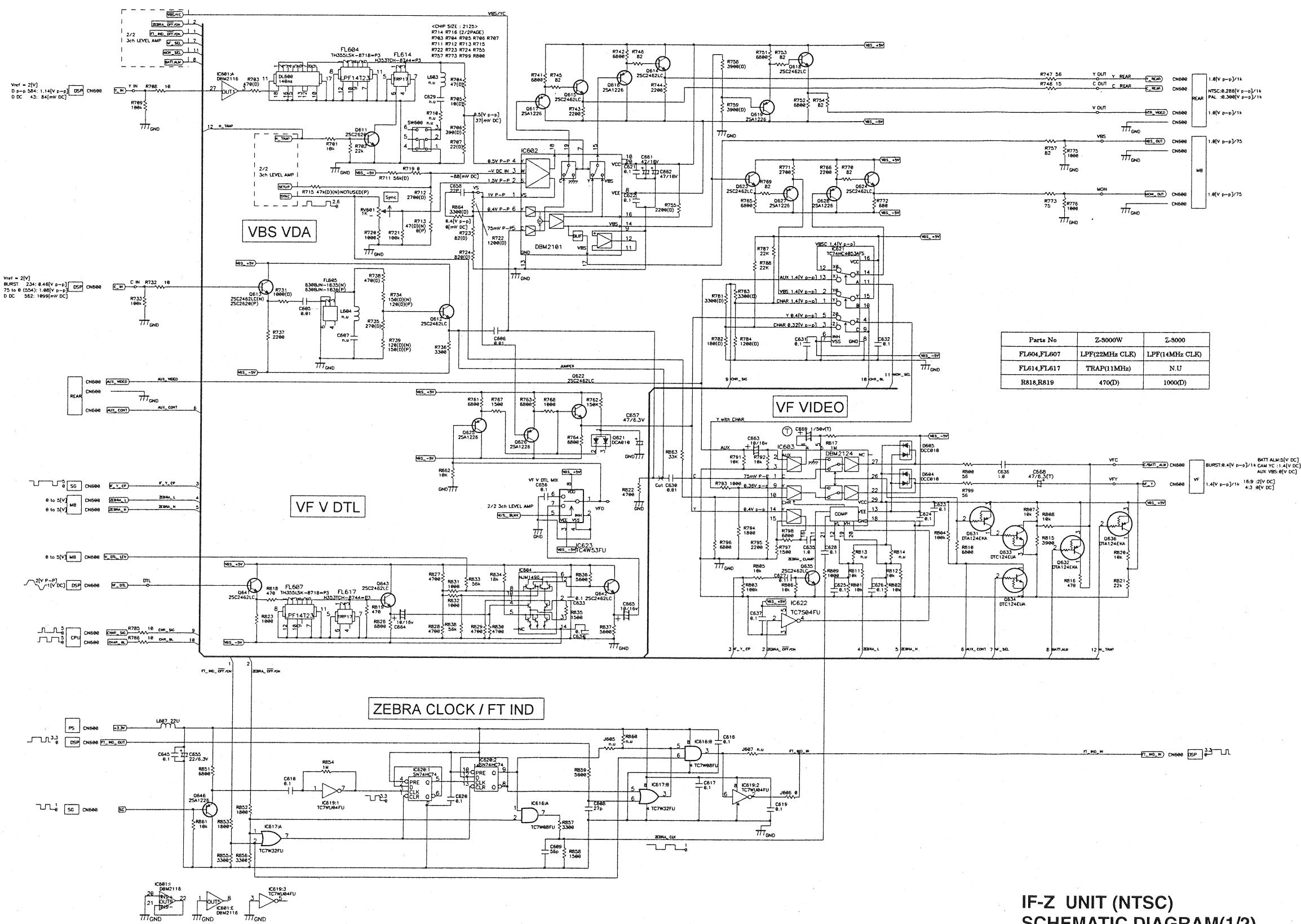


WIDE UNIT (PAL)
SCHEMATIC DIAGRAM(1/2)

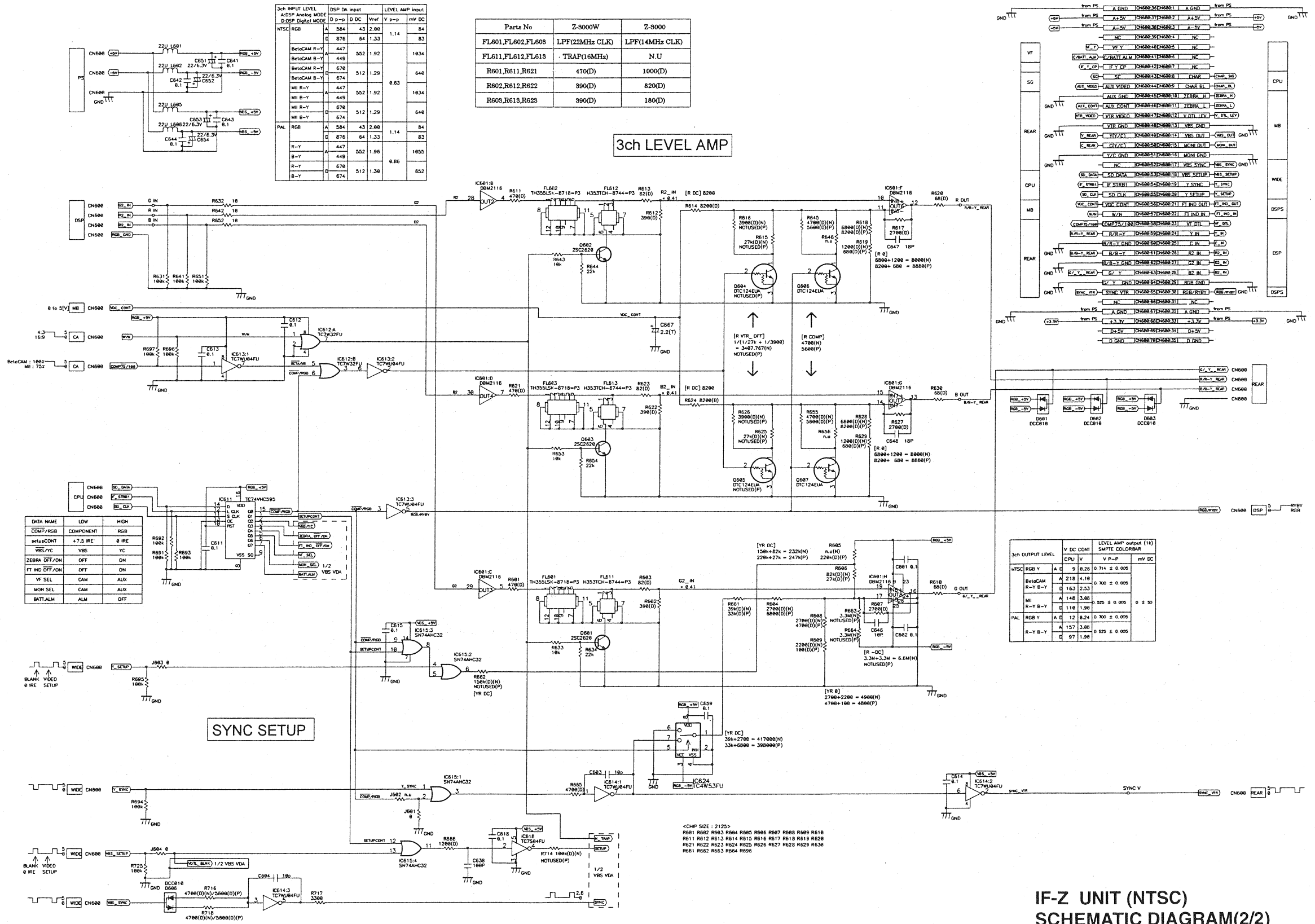


PAL 16/9/4:3 only : (W)

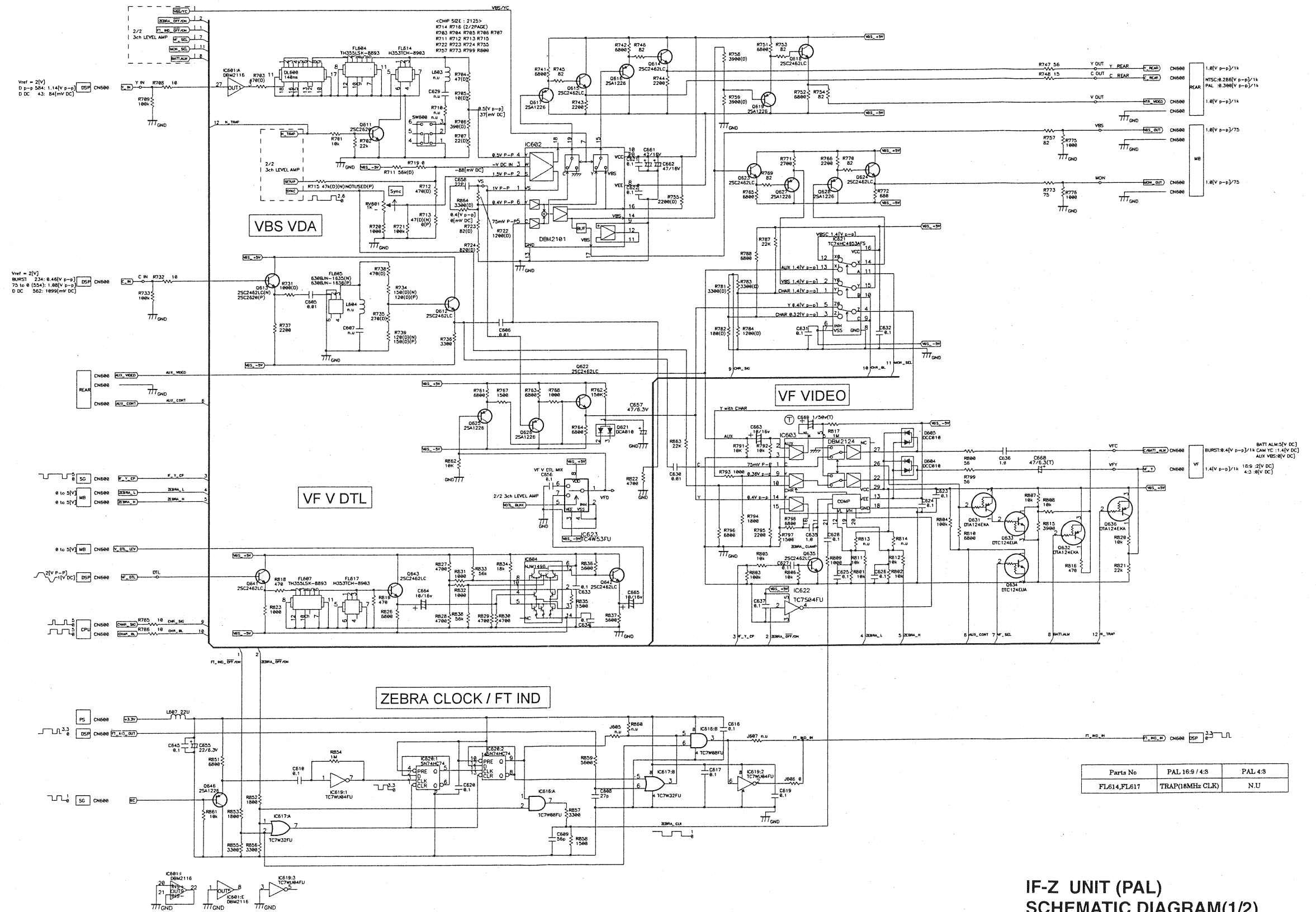
WIDE UNIT (PAL)
SCHEMATIC DIAGRAM(2/2)



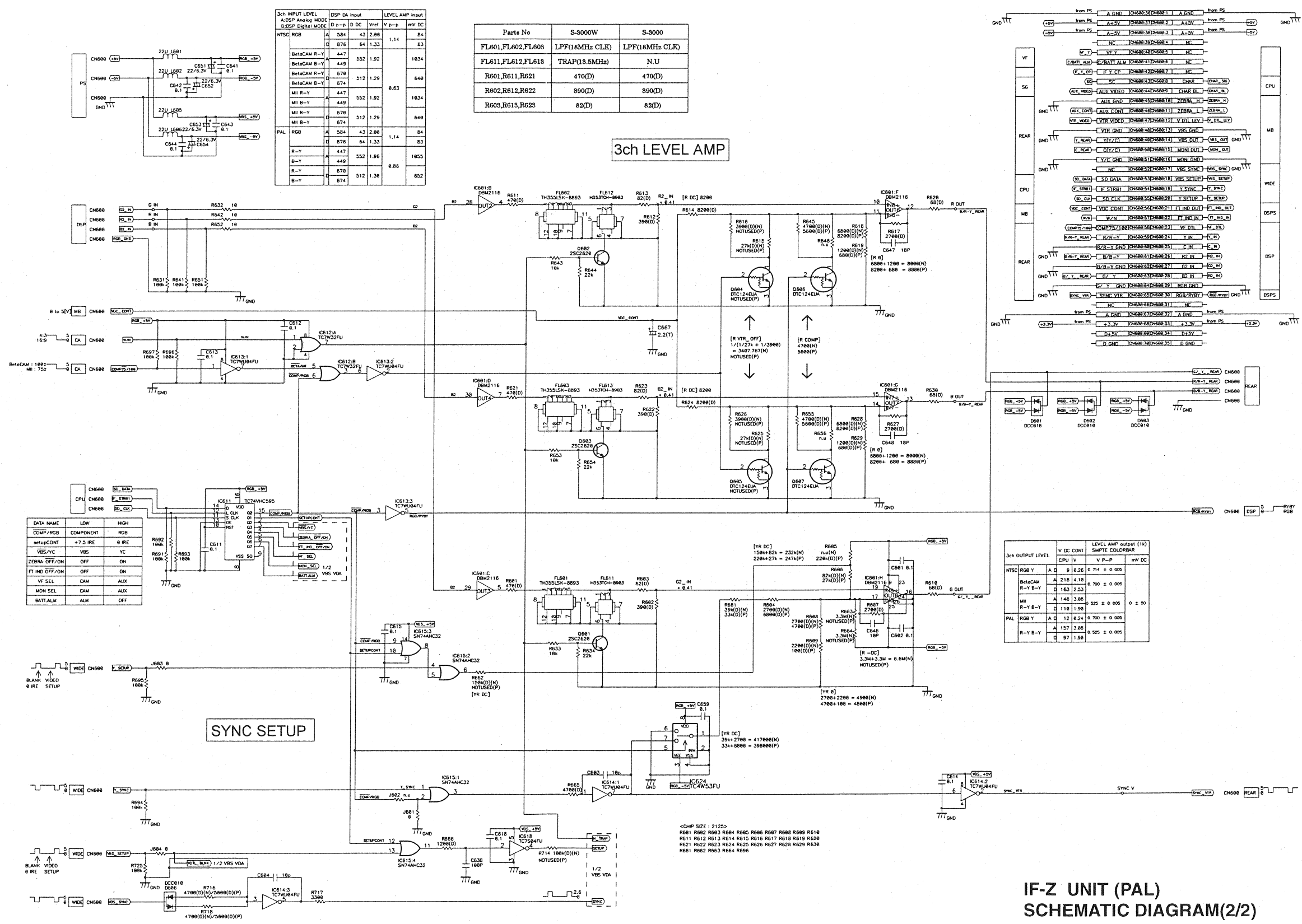
**IF-Z UNIT (NTSC)
SCHEMATIC DIAGRAM(1/2)**



IF-Z UNIT (NTSC)
SCHEMATIC DIAGRAM(2/2)



IF-Z UNIT (PAL)
SCHEMATIC DIAGRAM(1/2)



3ch INPUT LEVEL		DSP DA Input		LEVEL AMP input	
MODE	DC	Vref	DC	Vref	mV DC
NTSC/RGB	A	584	43	2.88	84
	C	876	64	1.33	83
Be1CAM R-Y	A	447	552	1.92	1834
Be1CAM R-Y	C	449	552	1.92	1834
Be1CAM B-Y	A	678	512	1.29	648
Be1CAM B-Y	C	674	512	1.29	648
MB R-Y	A	447	552	1.92	1834
MB R-Y	C	449	552	1.92	1834
MB B-Y	A	678	512	1.29	648
MB B-Y	C	674	512	1.29	648
PAL	A	584	43	2.88	84
	C	876	64	1.33	83
R-Y	A	447	552	1.96	1855
R-Y	C	449	552	1.96	1855
B-Y	A	678	512	1.38	652
B-Y	C	674	512	1.38	652

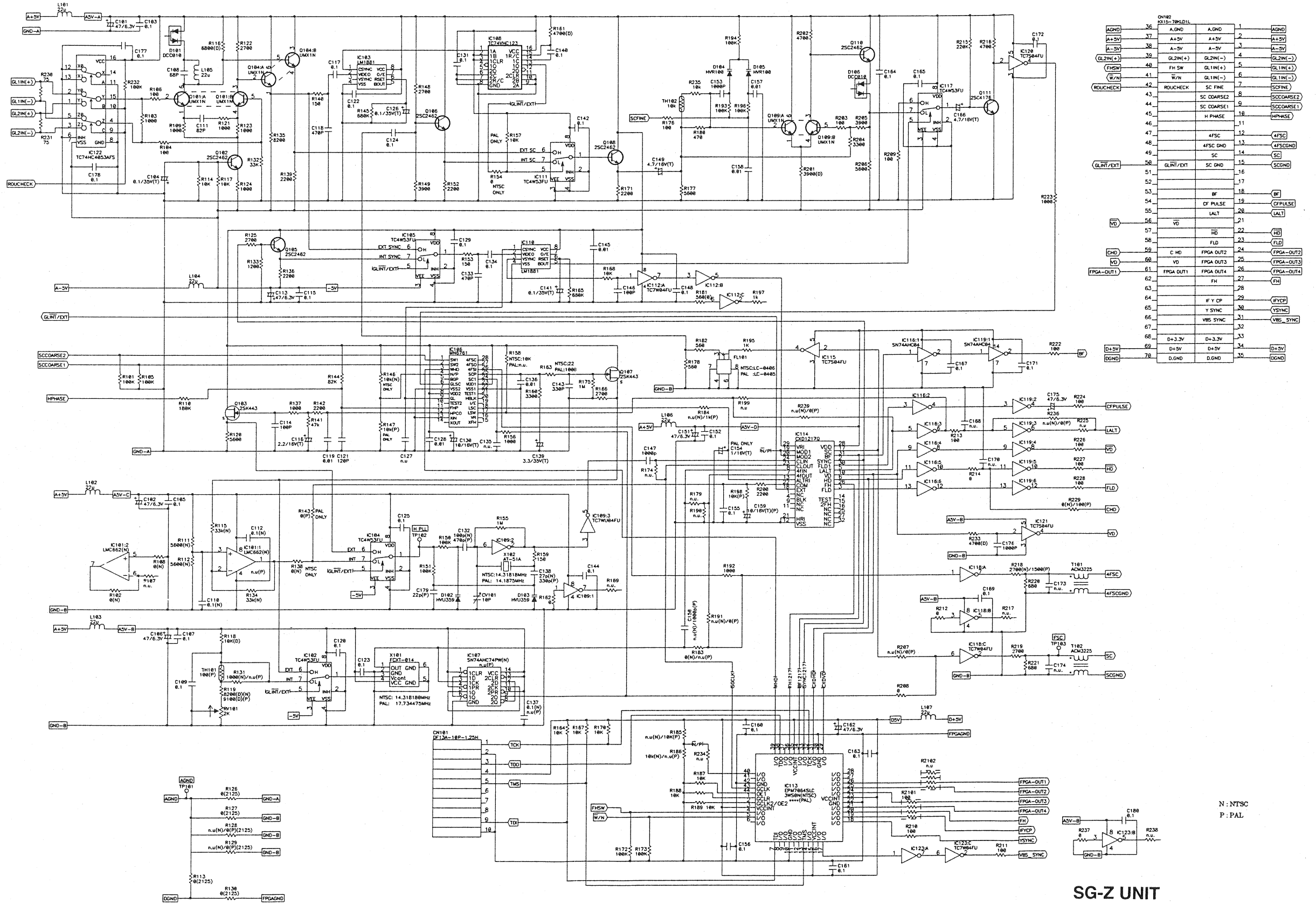
Parts No	S-9000W	S-9000
FL601,FL602,FL605	LFP(18MHz CLK)	LFP(18MHz CLK)
FL611,FL612,FL618	TRAP(18.5MHz)	N.U
R601,R611,R621	470(D)	470(D)
R602,R612,R622	390(D)	390(D)
R603,R613,R623	82(D)	82(D)

3ch LEVEL AMP

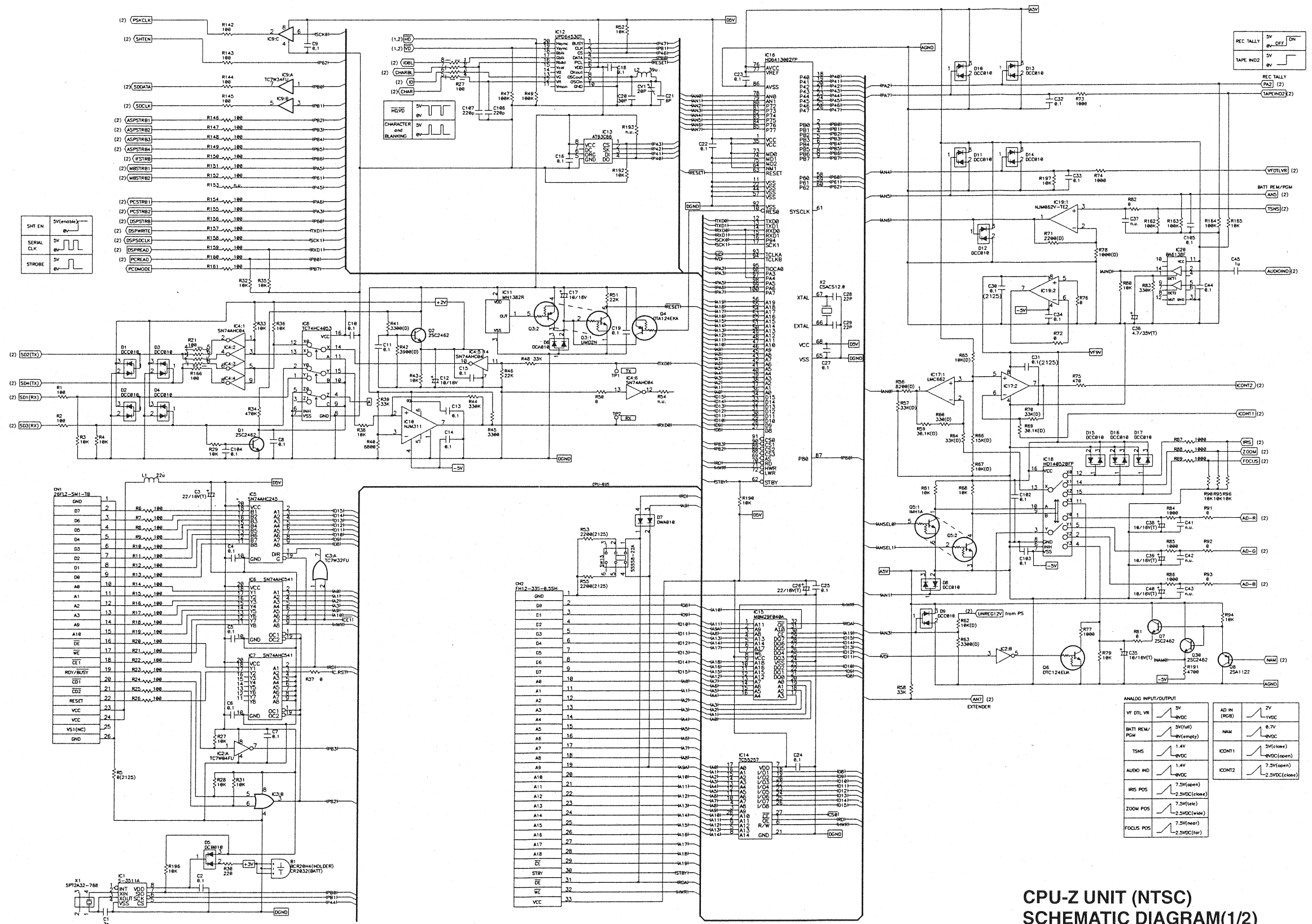
DATA NAME	LOW	HIGH
COMP/RGB	COMPONENT	RGB
SetupCONT	+7.5 IRE	0 IRE
VBS/YC	VBS	YC
ZERRA OFF/ON	OFF	ON
FT IND OFF/ON	OFF	ON
MON SEL	CAM	AUX
BATTALM	ALM	OFF

3ch OUTPUT LEVEL		V DC CONT	LEVEL AMP output (1x)
MODE	DC	V	SAFETY COLORBAR
NTSC/RGB	A	5.26	0.714 ± 0.005
	C	8.26	0.714 ± 0.005
Be1CAM	A	2.18	4.118
R-Y B-Y	C	163.233	0.700 ± 0.005
MB	A	1.68	3.88
R-Y B-Y	C	118.198	0.525 ± 0.005
PAL	A	12.824	0.700 ± 0.005
	C	157.388	0.525 ± 0.005
R-Y B-Y	C	97.198	

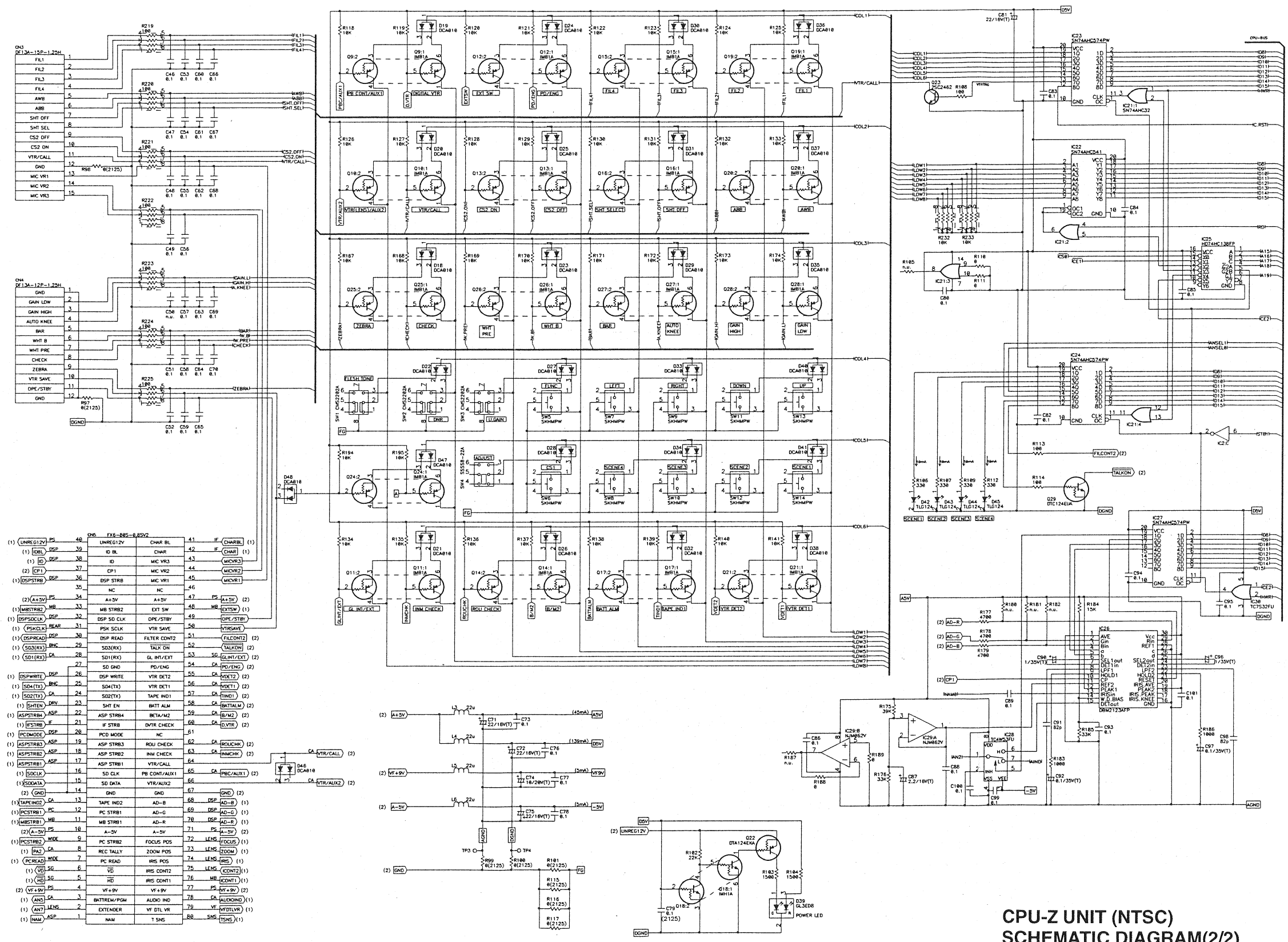
IF-Z UNIT (PAL)
SCHEMATIC DIAGRAM(2/2)



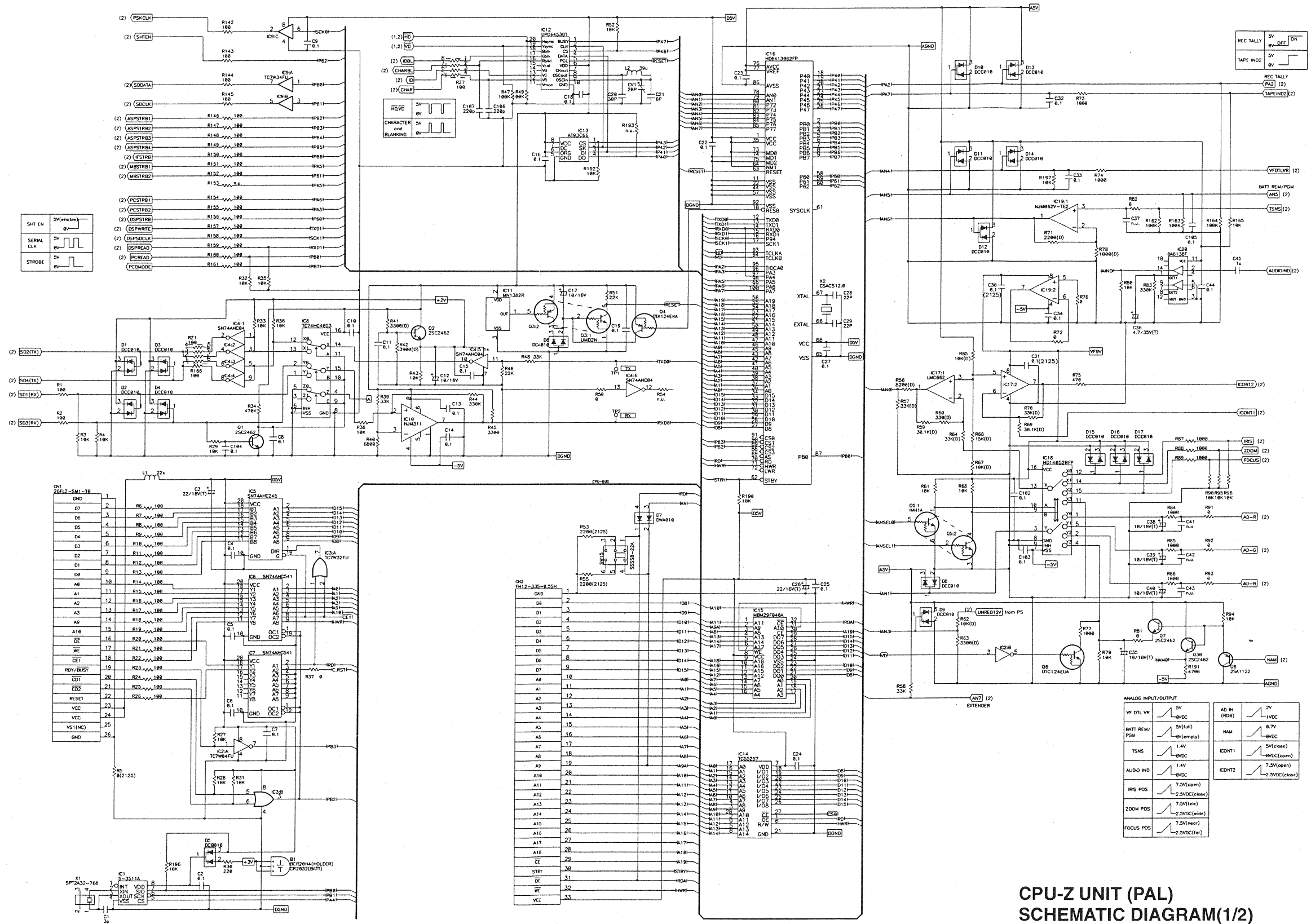
SG-Z UNIT SCHEMATIC DIAGRAM



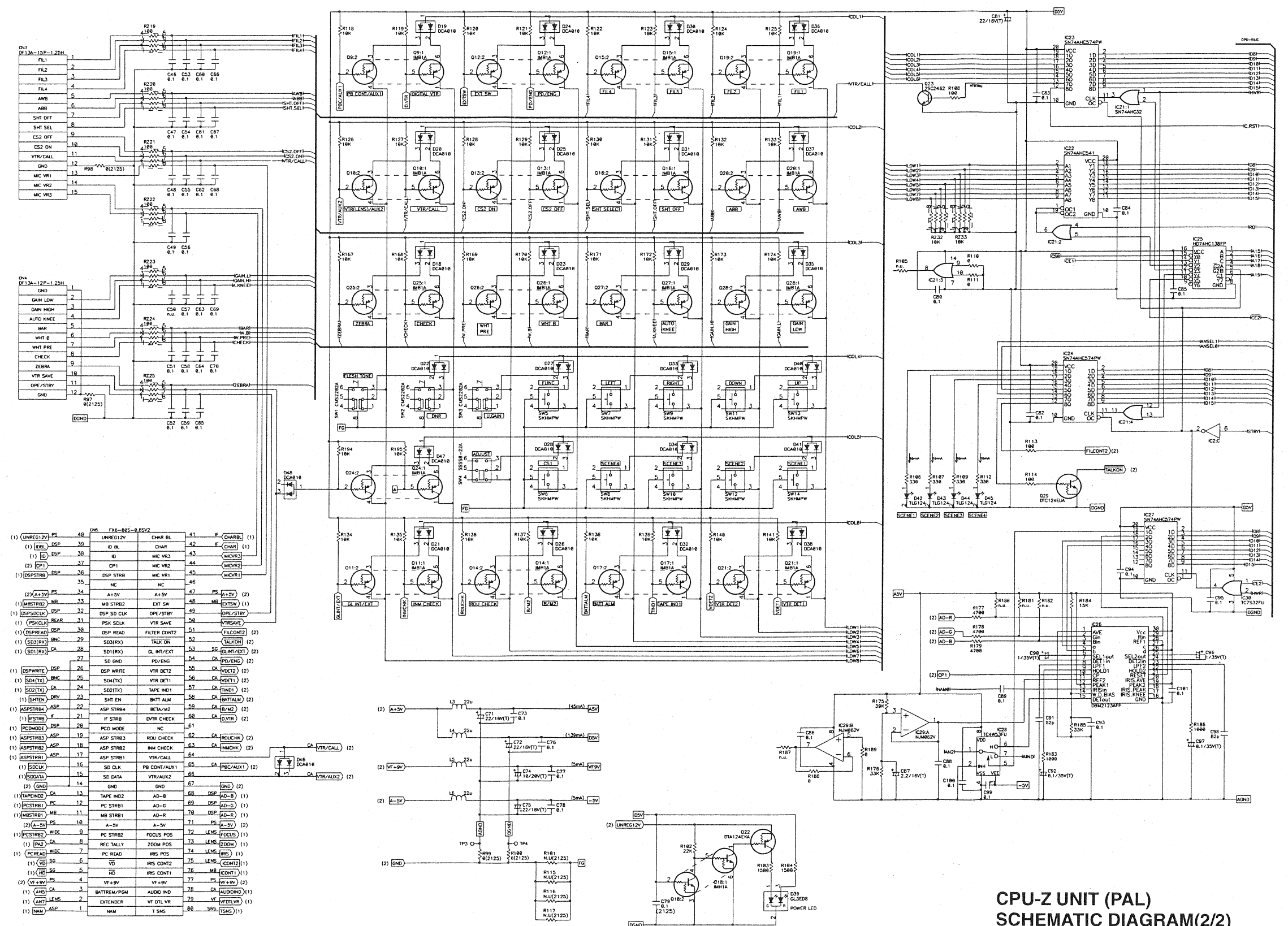
**CPU-Z UNIT (NTSC)
SCHEMATIC DIAGRAM(1/2)**



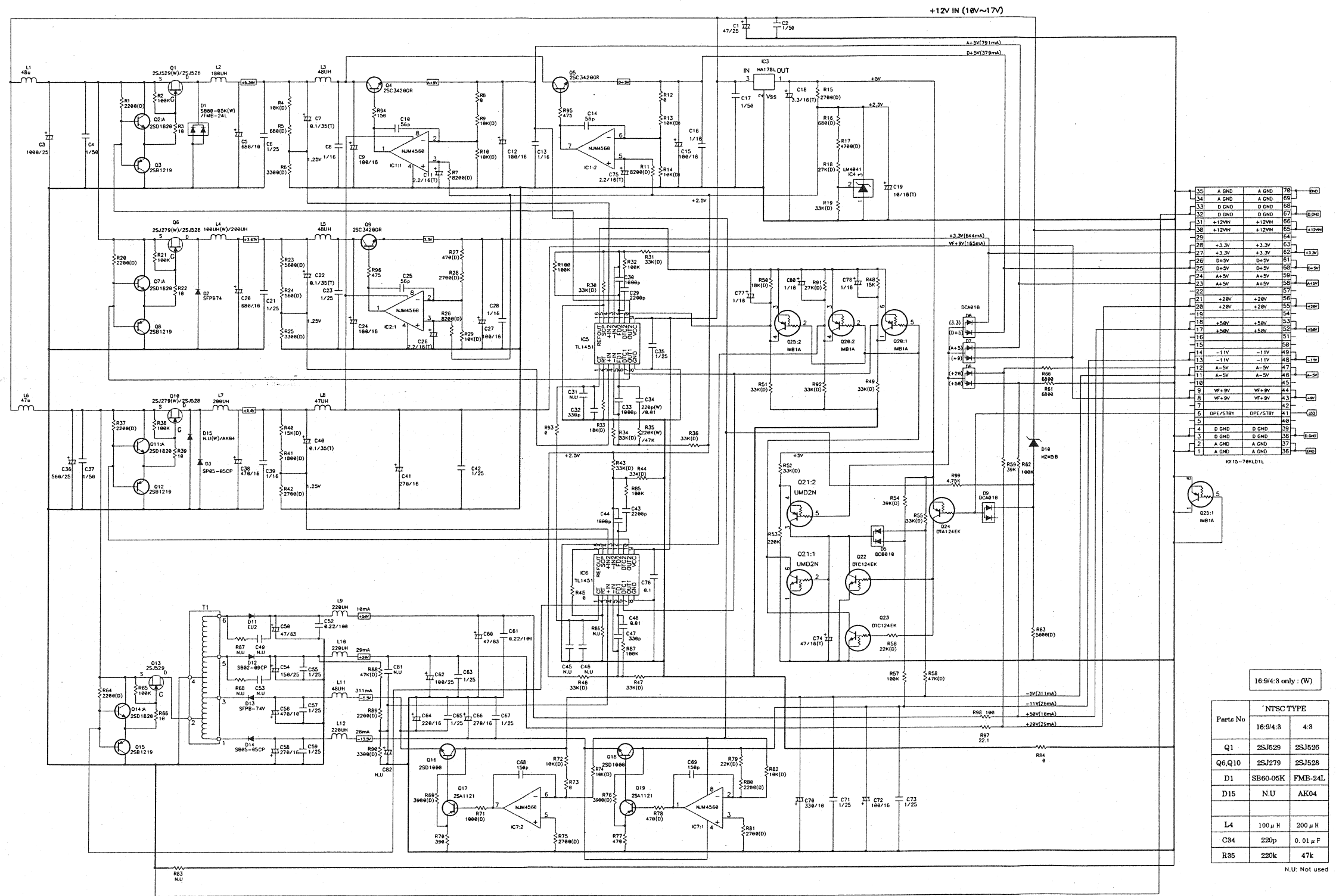
CPU-Z UNIT (NTSC)
SCHEMATIC DIAGRAM(2/2)



**CPU-Z UNIT (PAL)
SCHEMATIC DIAGRAM(1/2)**



**CPU-Z UNIT (PAL)
SCHEMATIC DIAGRAM(2/2)**

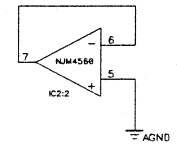


35	A GND	A GND	70	IC1
34	A GND	A GND	69	IC2
33	D GND	D GND	68	IC3
32	D GND	D GND	67	IC4
31	+12VIN	+12VIN	66	IC5
30	+12VIN	+12VIN	65	IC6
29			64	IC7
28	+3.3V	+3.3V	63	IC8
27	+3.3V	+3.3V	62	IC9
26	+5V	+5V	61	IC10
25	+5V	+5V	60	IC11
24	+5V	+5V	59	IC12
23	+5V	+5V	58	IC13
22	+5V	+5V	57	IC14
21	+2.5V	+2.5V	56	IC15
20	+2.5V	+2.5V	55	IC16
19	+5.0V	+5.0V	54	IC17
18	+5.0V	+5.0V	53	IC18
17	+5.0V	+5.0V	52	IC19
16			51	IC20
15			50	IC21
14	-11V	-11V	49	IC22
13	-11V	-11V	48	IC23
12	-5V	-5V	47	IC24
11	-5V	-5V	46	IC25
10	-5V	-5V	45	IC26
9	+5V	+5V	44	IC27
8	+5V	+5V	43	IC28
7			42	IC29
6	DPE/STBY	DPE/STBY	41	IC30
5			40	IC31
4	D GND	D GND	39	IC32
3	D GND	D GND	38	IC33
2	A GND	A GND	37	IC34
1	A GND	A GND	36	IC35

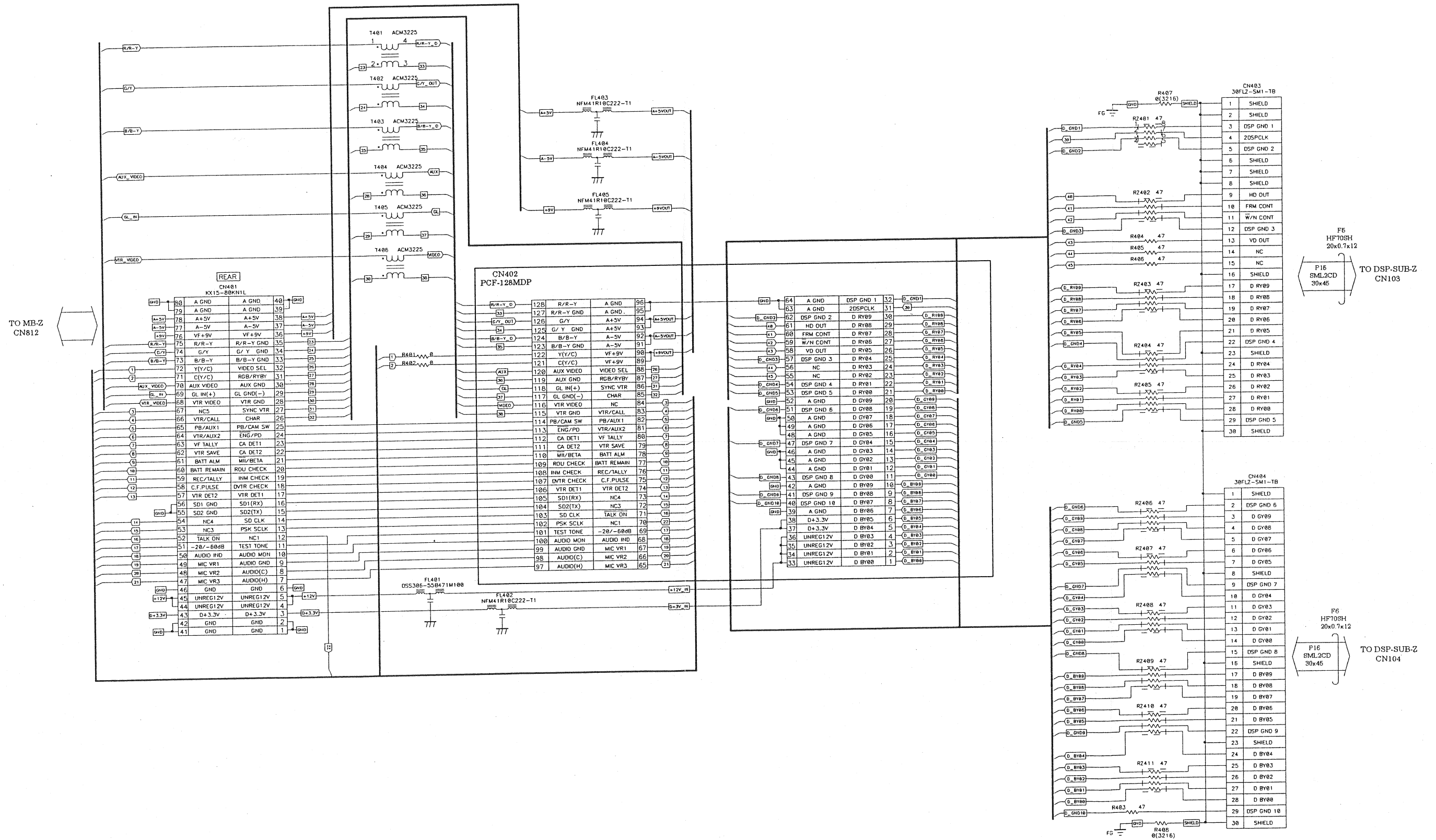
16:9/4:3 only : (W)

Parts No	NTSC TYPE	
	16:9/4:3	4:3
Q1	2SJ526	2SJ526
Q6,Q10	2SJ279	2SJ528
D1	SB60-05K	FMB-24L
D15	NU	AK04
L4	100 μ H	200 μ H
C34	220p	0.01 μ F
R35	220k	47k

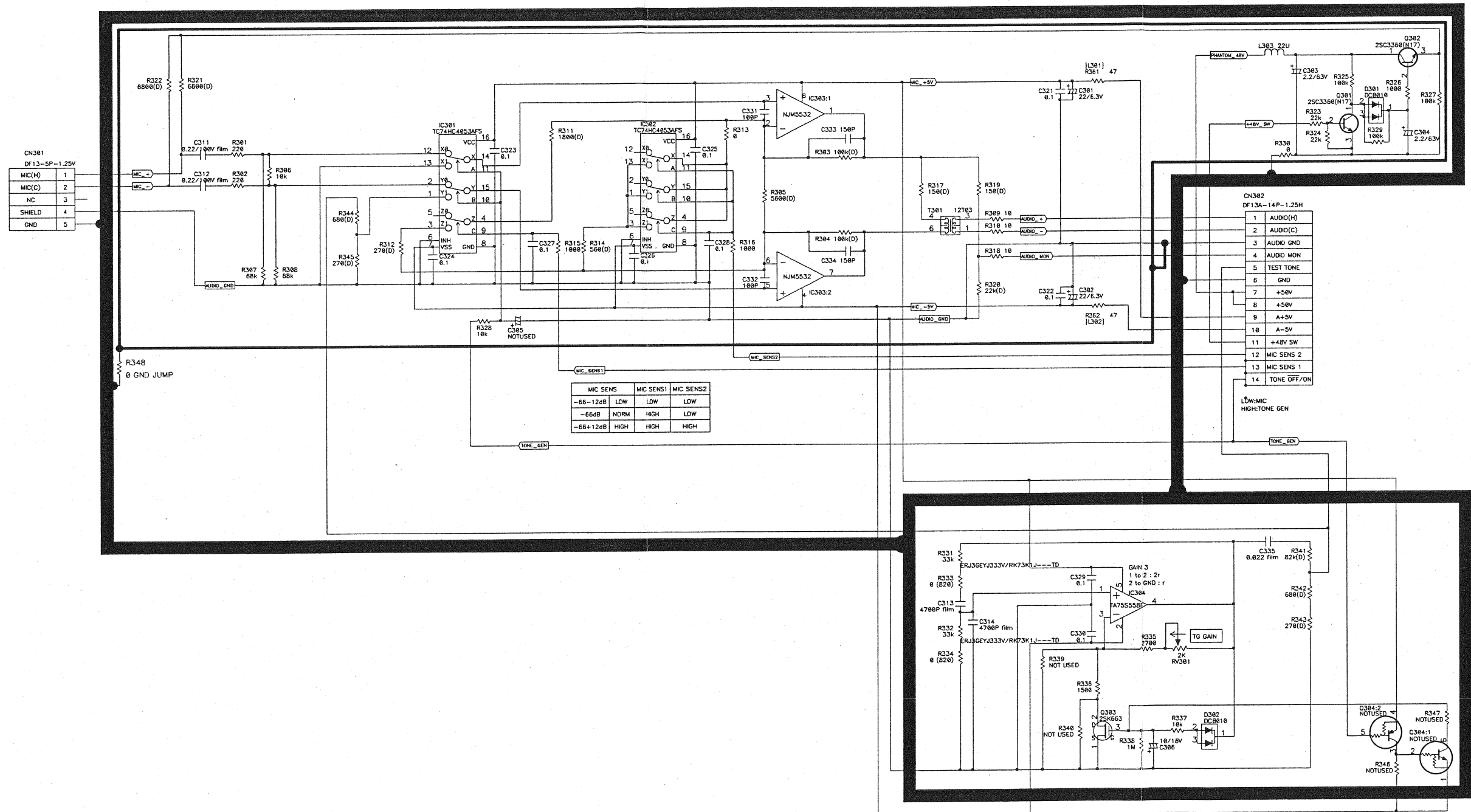
N.U: Not used



PS-Z UNIT (NTSC)
SCHEMATIC DIAGRAM



REAR UNIT SCHEMATIC DIAGRAM

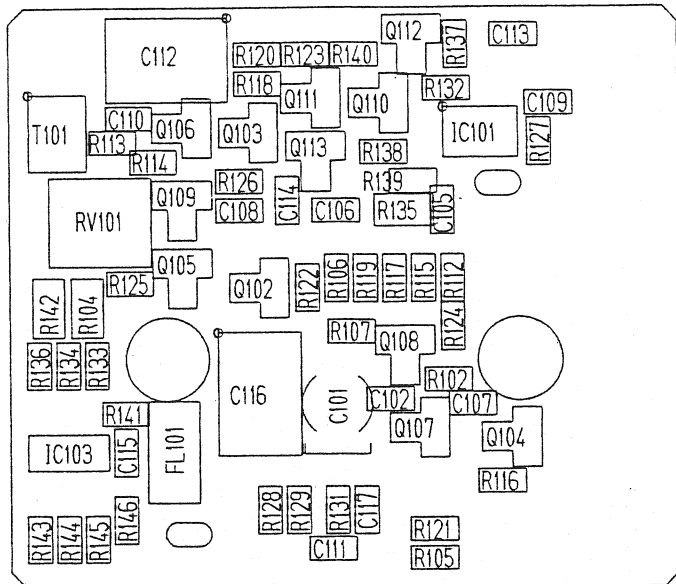


MIC-Z UNIT
SCHEMATIC DIAGRAM

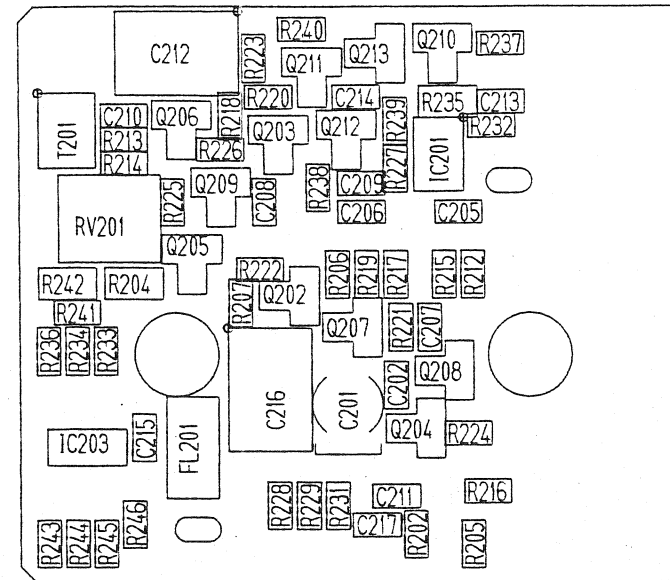
ELECTRICAL PARTS ARRANGEMENTS

SNS-R/SNS-G/SNS-B unit(NTSC 16:9/4:3)	7-1
DRV-Z unit(NTSC 16:9/4:3)	7-2
SNS-M5-R/G/B unit(PAL 16:9/4:3)	7-3
DRV-M5 unit(PAL 16:9/4:3)	7-4
SNS-SR/SG/SB unit(NTSC 4:3)	7-5
DRV-S4 unit(NTSC4:3)	7-6
SNS-SR/SG/SB unit(PAL 4:3)	7-7
DRV-S5 unit(PAL 4:3)	7-8
PC-unit	7-9
ASP-Z unit	7-10
ASP-SUB unit	7-11
DSP-Z unit	7-12
WIDE unit	7-13
DSP SUB-Z unit	7-14
IF-Z unit	7-15
SG-Z unit	7-16
CPU-Z unit	7-17
MIC-Z unit	7-18
PS-Z unit	7-19
MB-Z unit	7-20
OTHERS	7-21

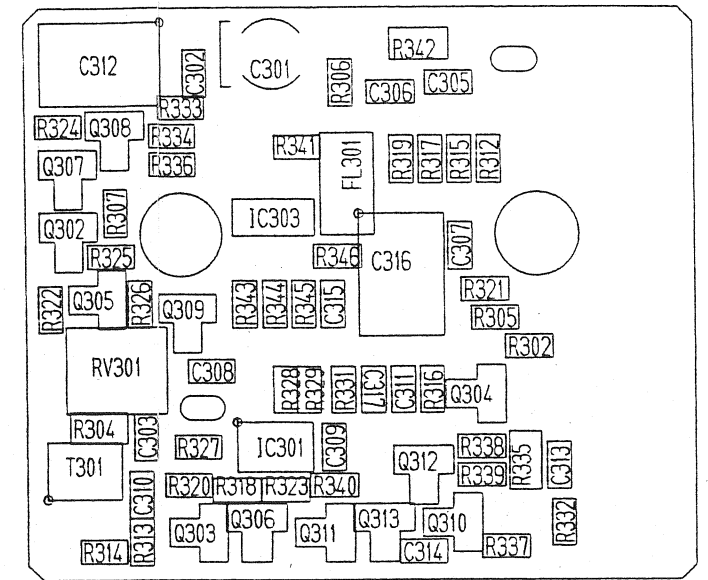
7. ELECTRICAL PARTS ARRANGEMENTS



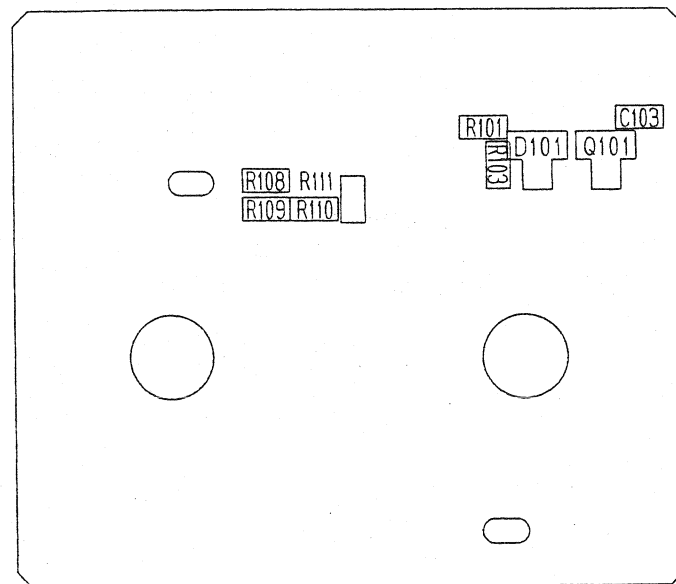
SNS-R (PT-1408C) SIDE A
[NTSC 16:9/4:3]



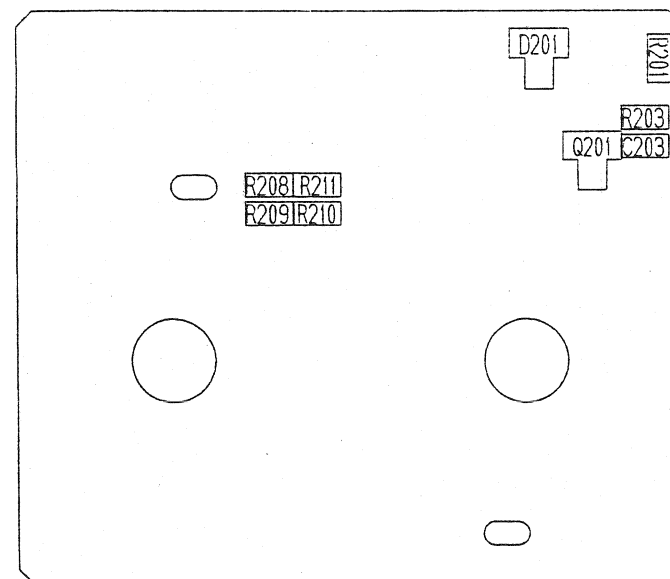
SNS-G (PT-1423C) SIDE A
[NTSC 16:9/4:3]



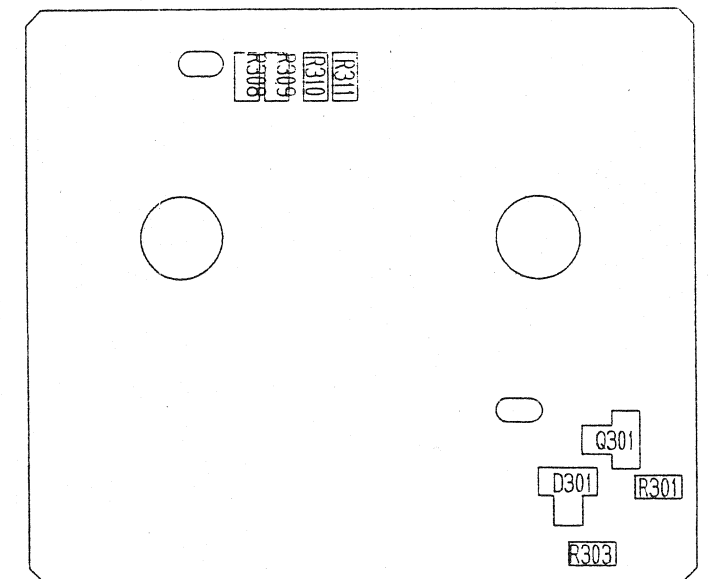
SNS-B (PT-1420C) SIDE A
[NTSC 16:9/4:3]



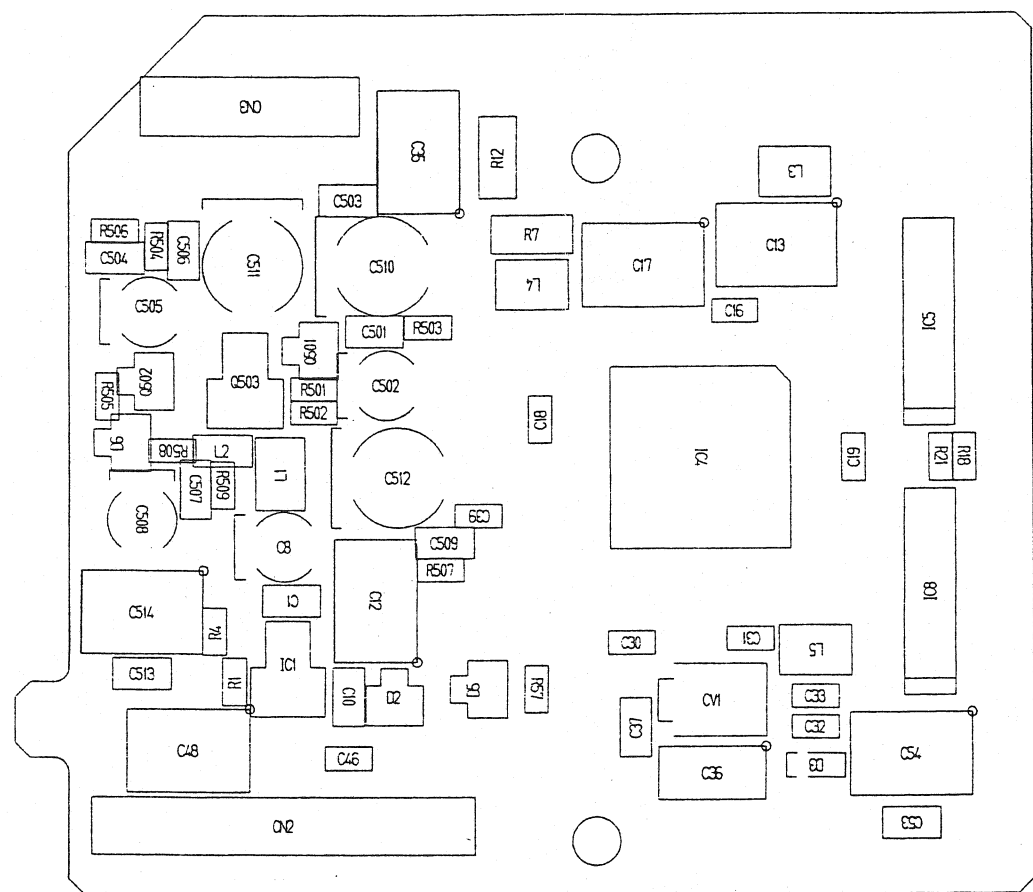
SNS-R (PT-1408C) SIDE B
[NTSC 16:9/4:3]



SNS-G (PT-1423C) SIDE B
[NTSC 16:9/4:3]

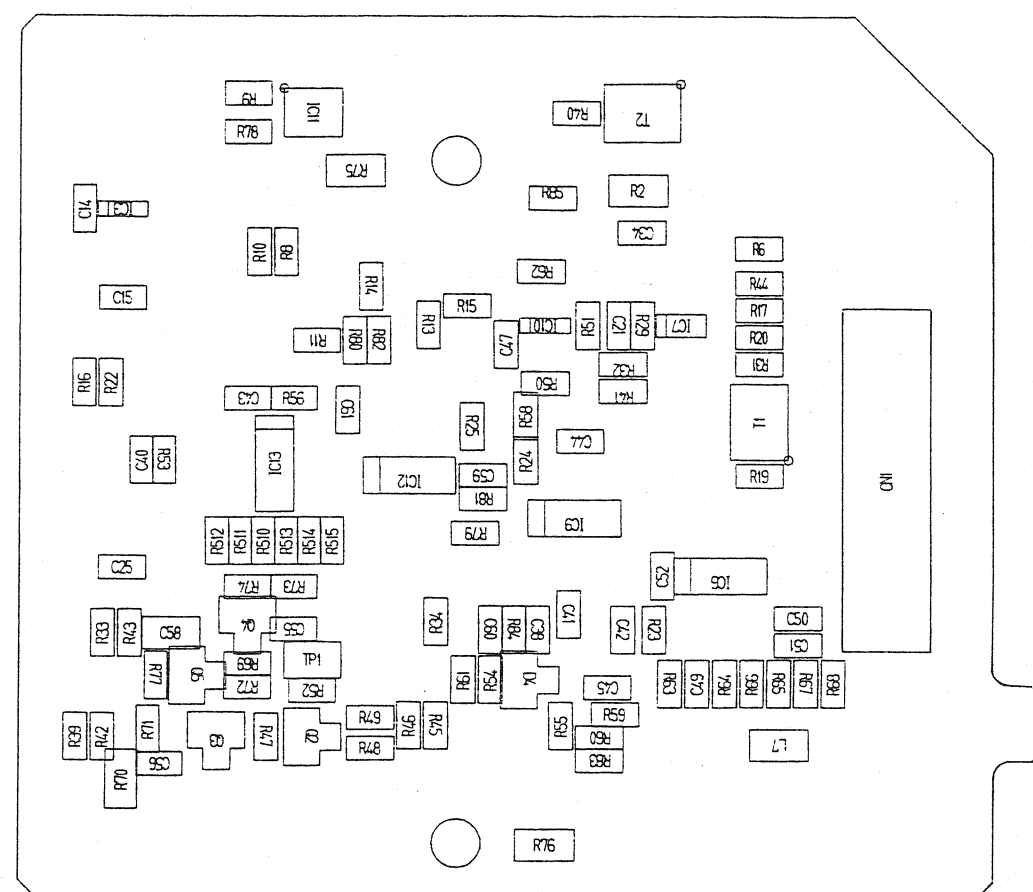


SNS-B (PT-1420C) SIDE B
[NTSC 16:9/4:3]



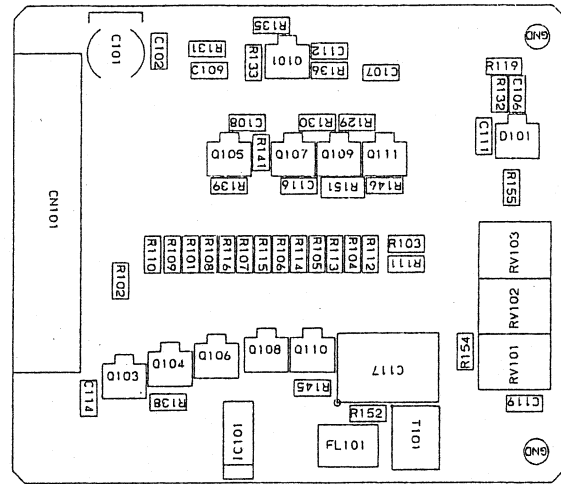
DRV-Z (PT-1409E) SIDE A

[NTSC 16:9/4:3]



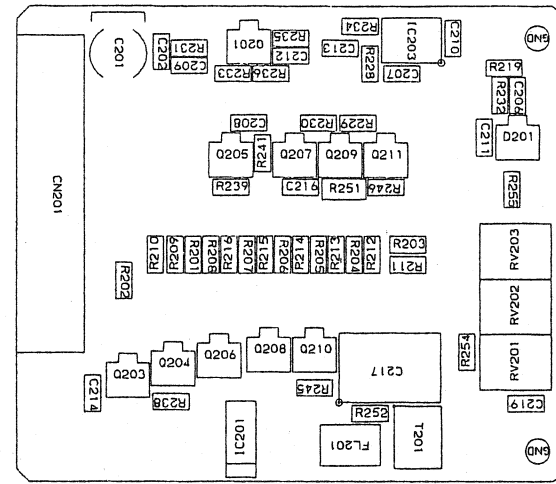
DRV-Z (PT-1409E) SIDE B

[NTSC 16:9/4:3]



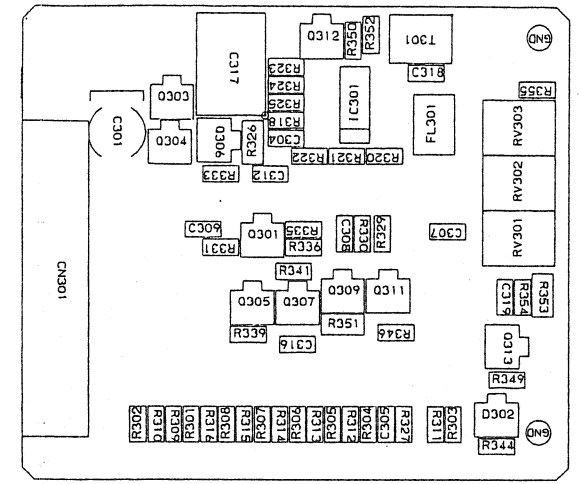
SNS-M5-R (PT-1563B) SIDE A

[PAL 16:9/4:3]



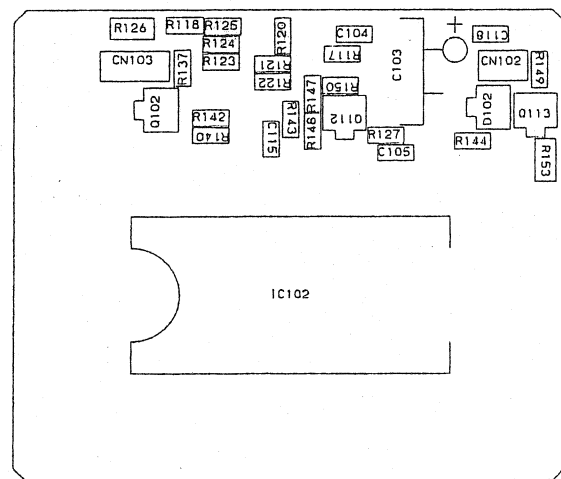
SNS-M5-G (PT-1564B) SIDE A

[PAL 16:9/4:3]



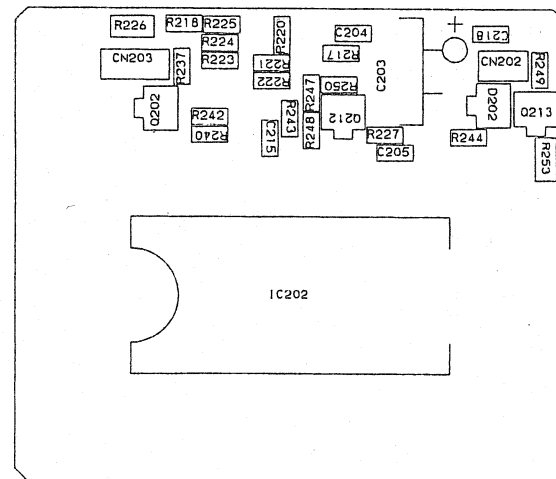
SNS-M5-B (PT-1565C) SIDE A

[PAL 16:9/4:3]



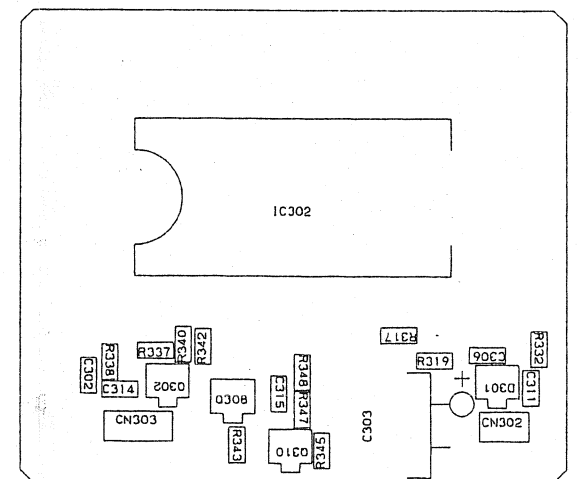
SNS-M5-R (PT-1563B) SIDE B

[PAL 16:9/4:3]



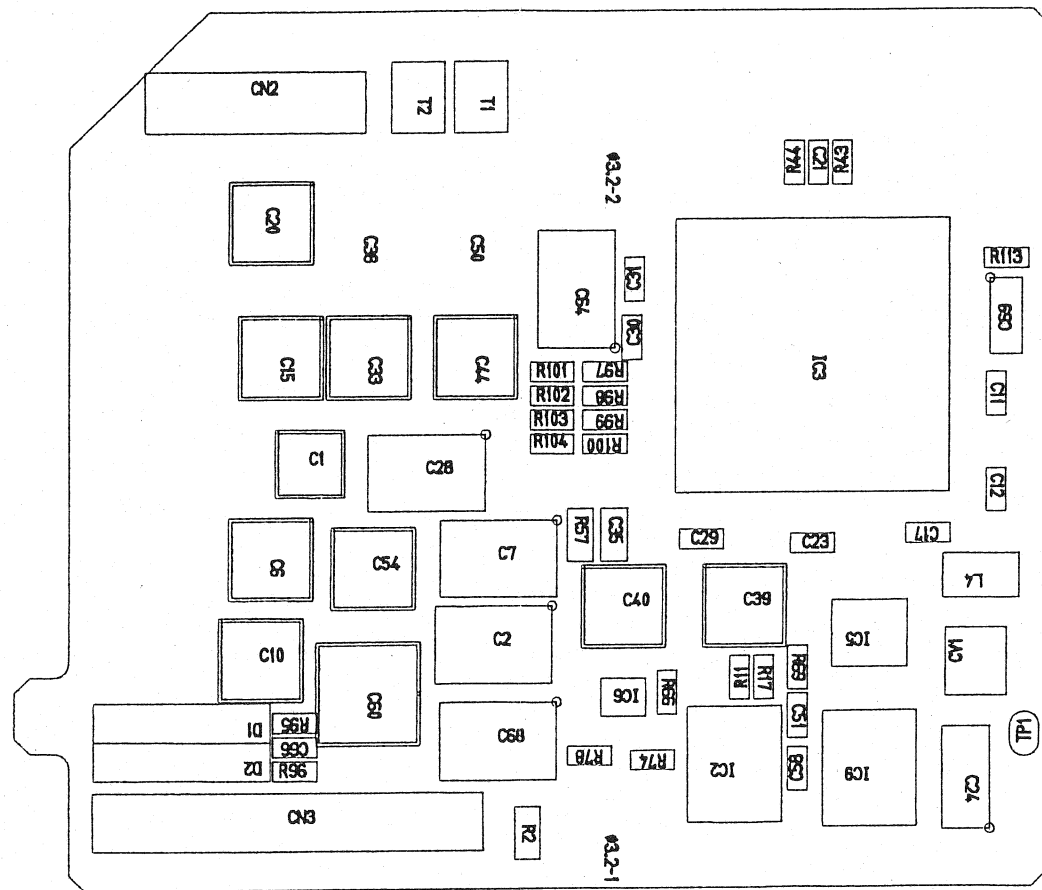
SNS-M5-G (PT-1564B) SIDE B

[PAL 16:9/4:3]



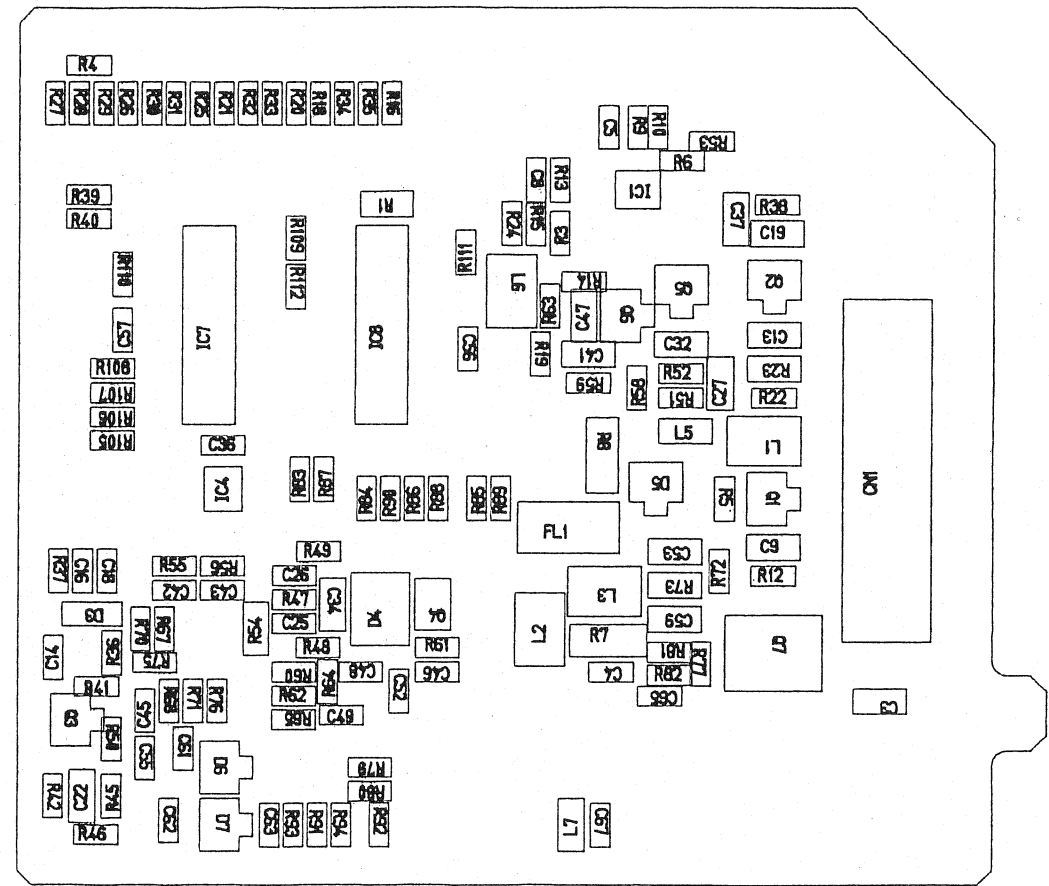
SNS-M5-B (PT-1565C) SIDE B

[PAL 16:9/4:3]



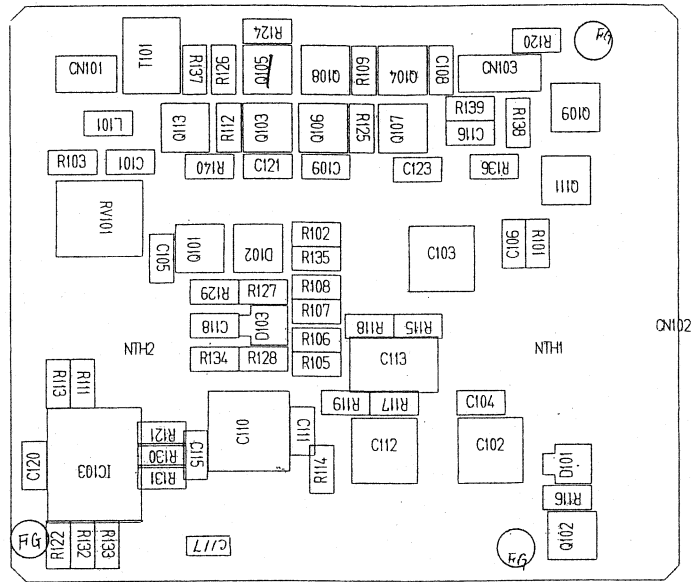
DRV-M5 (PT-1562B) SIDE A

[PAL 16:9/4:3]

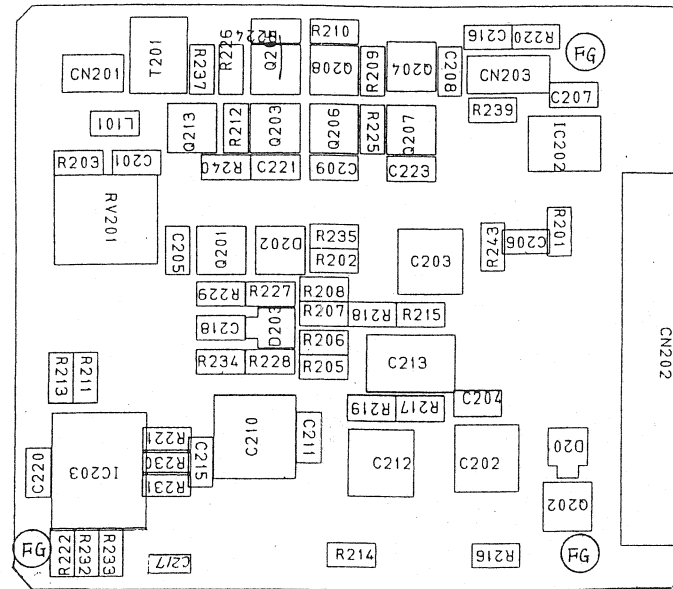


DRV-M5 (PT-1562B) SIDE B

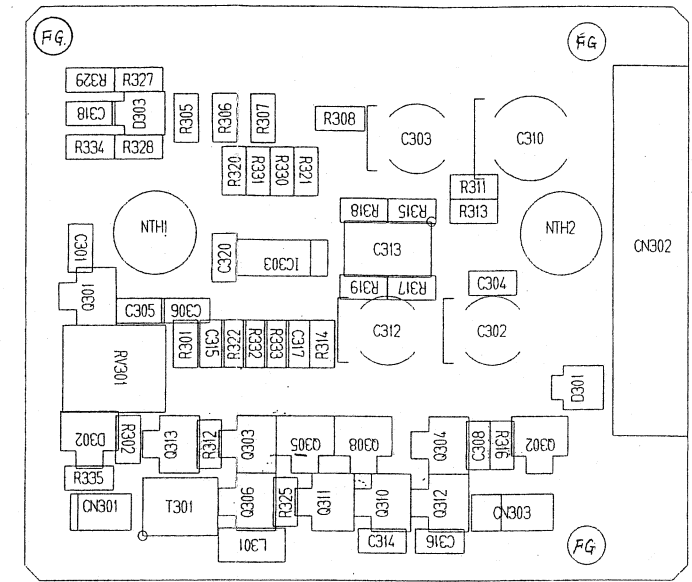
[PAL 16:9/4:3]



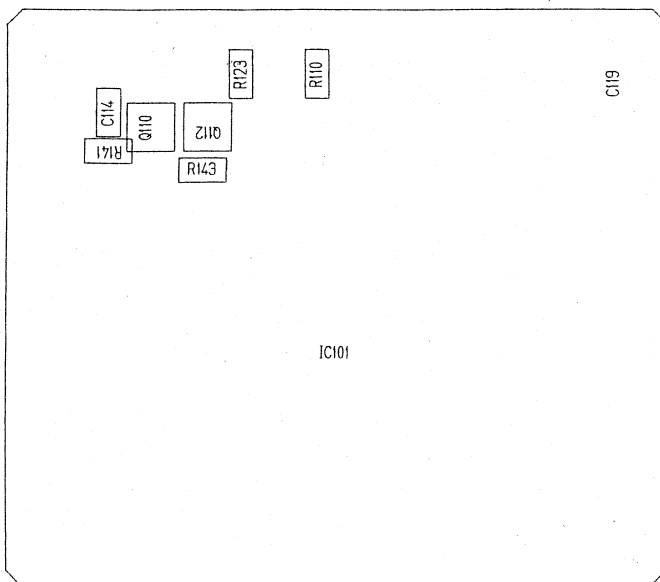
SNS-SR (PT-1494B) SIDE A
[NTSC 4:3]



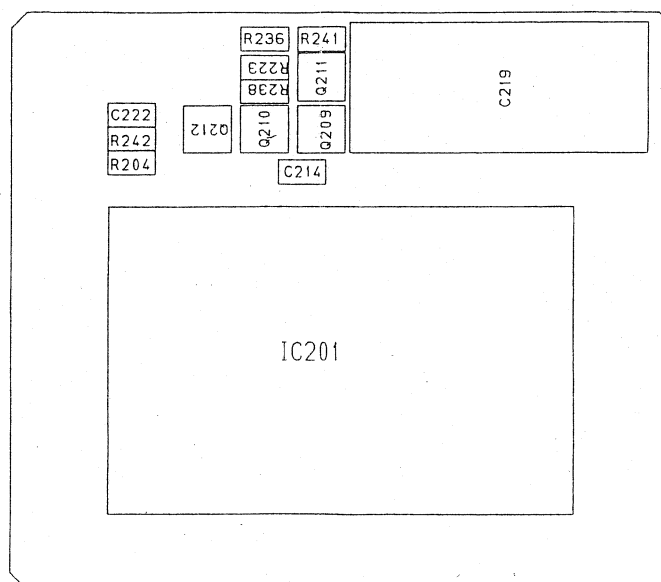
SNS-SG (PT-1495B) SIDE A
[NTSC 4:3]



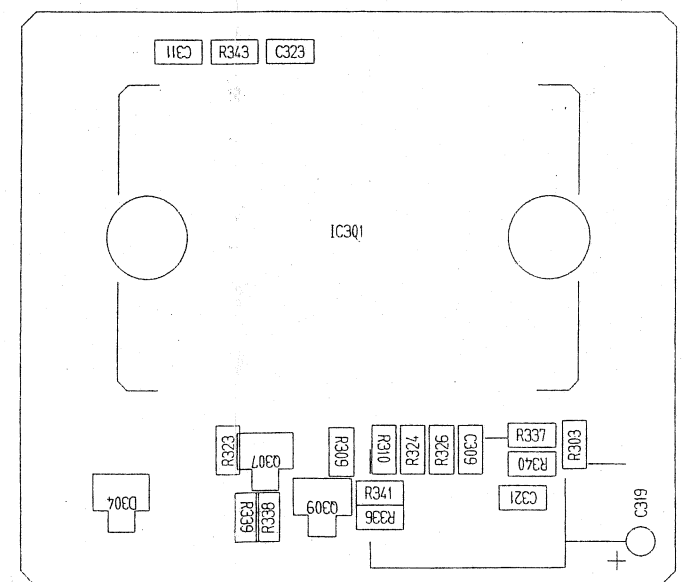
SNS-SB (PT-1496B) SIDE A
[NTSC 4:3]



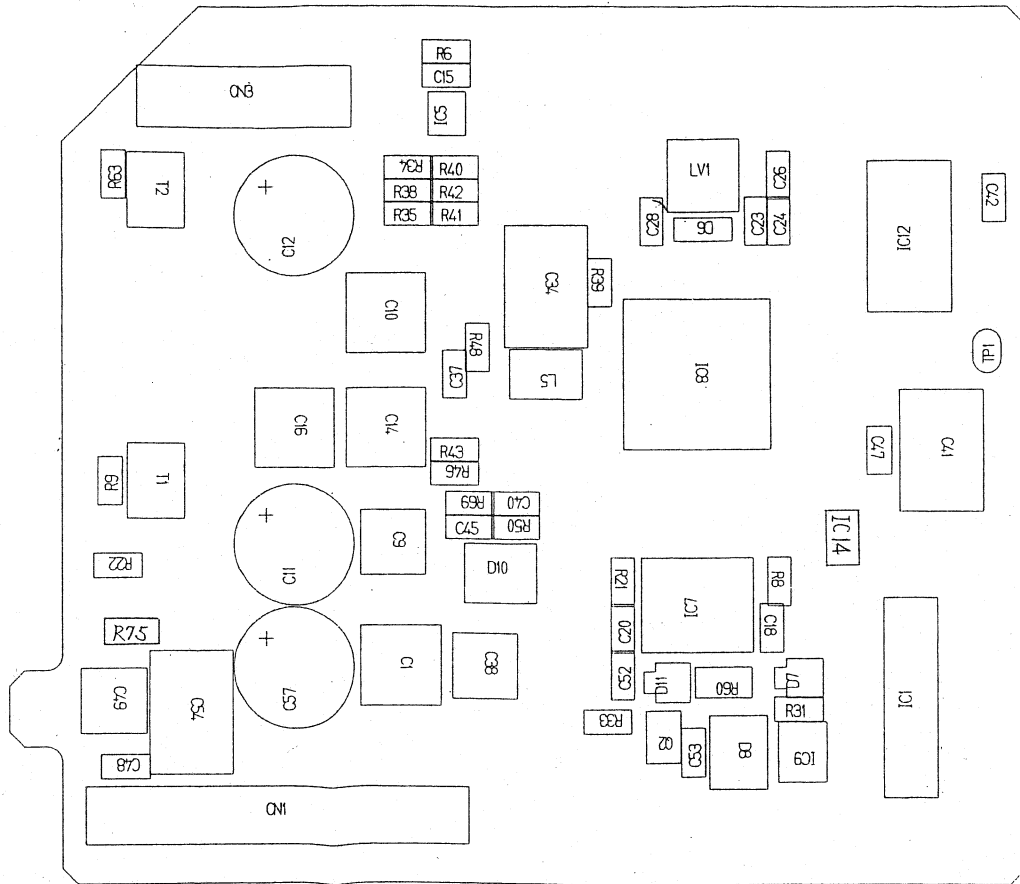
SNS-SR (PT-1494B) SIDE B
[NTSC 4:3]



SNS-SG (PT-1495B) SIDE B
[NTSC 4:3]

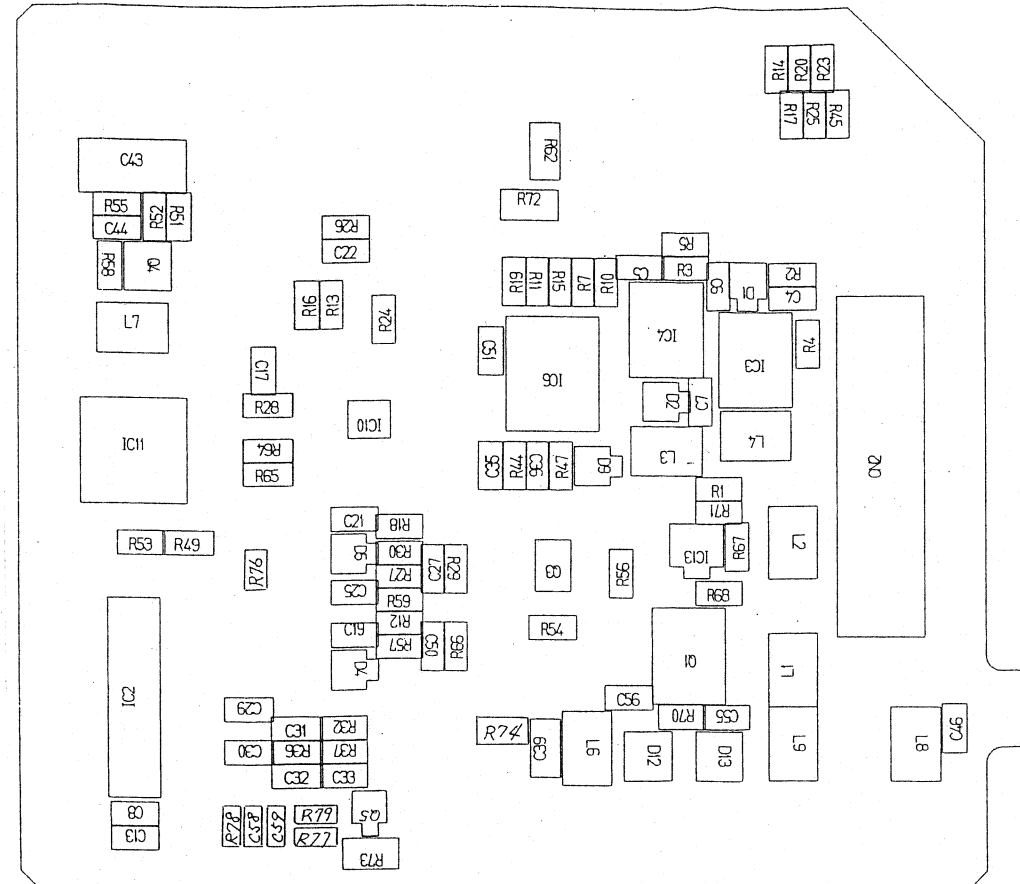


SNS-SB (PT-1496B) SIDE B
[NTSC 4:3]



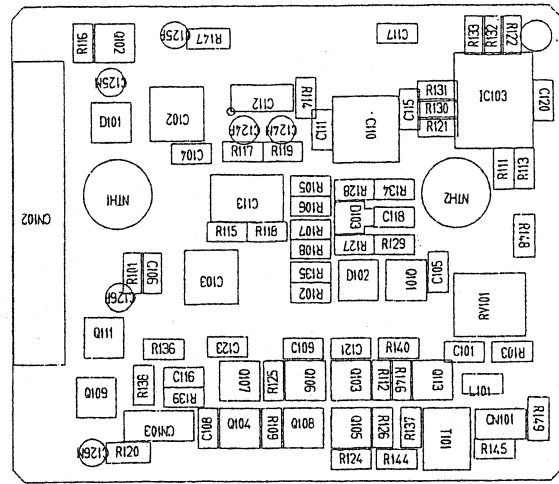
DRV-S4 (PT-1502A) SIDE A

[NTSC 4:3]

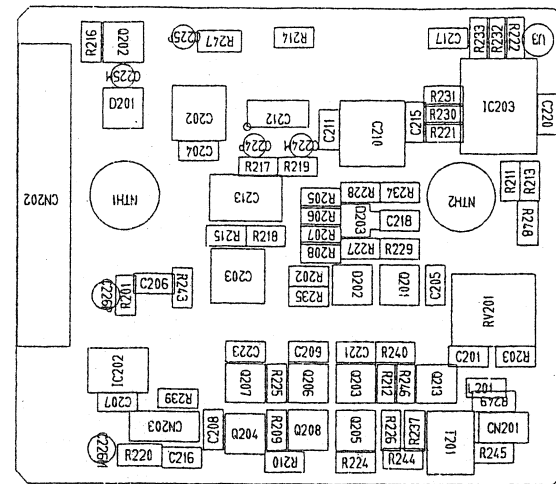


DRV-S4 (PT-1502A) SIDE B

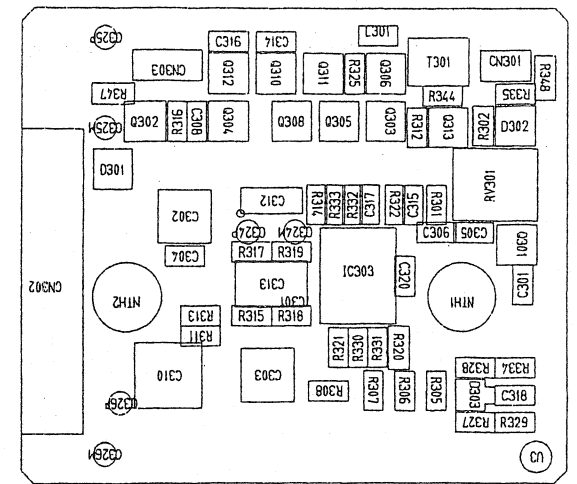
[NTSC 4:3]



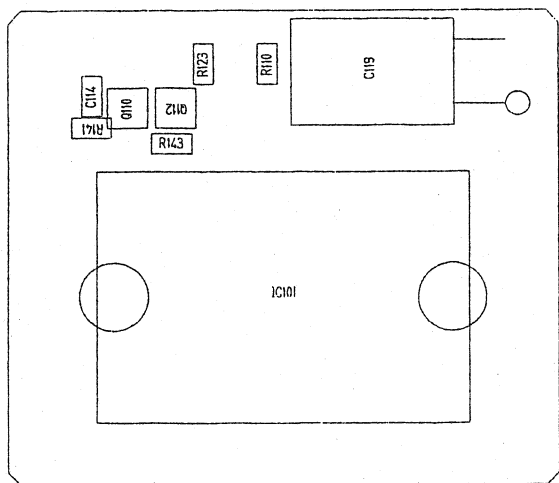
SNS-SR (PT-1494C) SIDE A
[PAL 4:3]



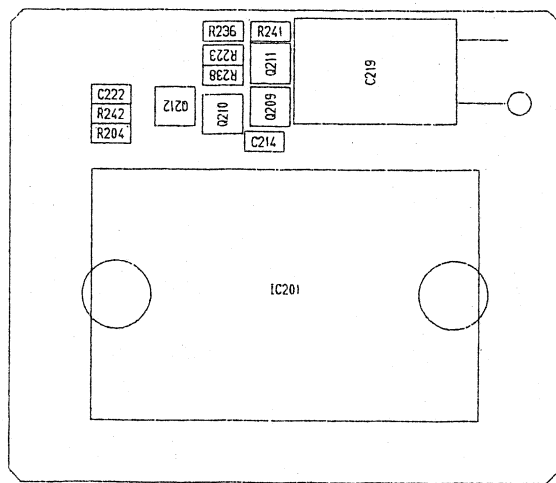
SNS-SG (PT-1495C) SIDE A
[PAL 4:3]



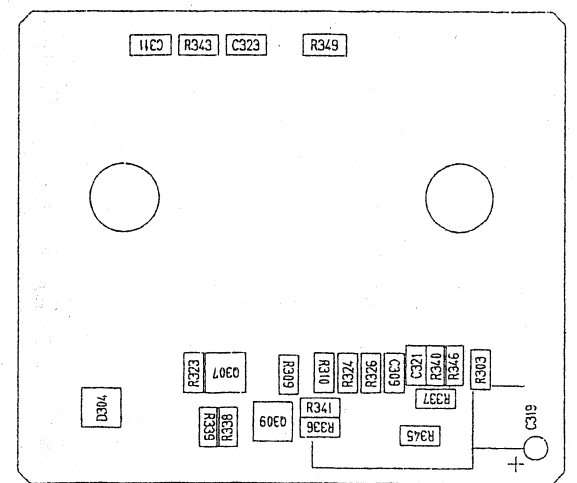
SNS-SB (PT-1496C) SIDE A
[PAL 4:3]



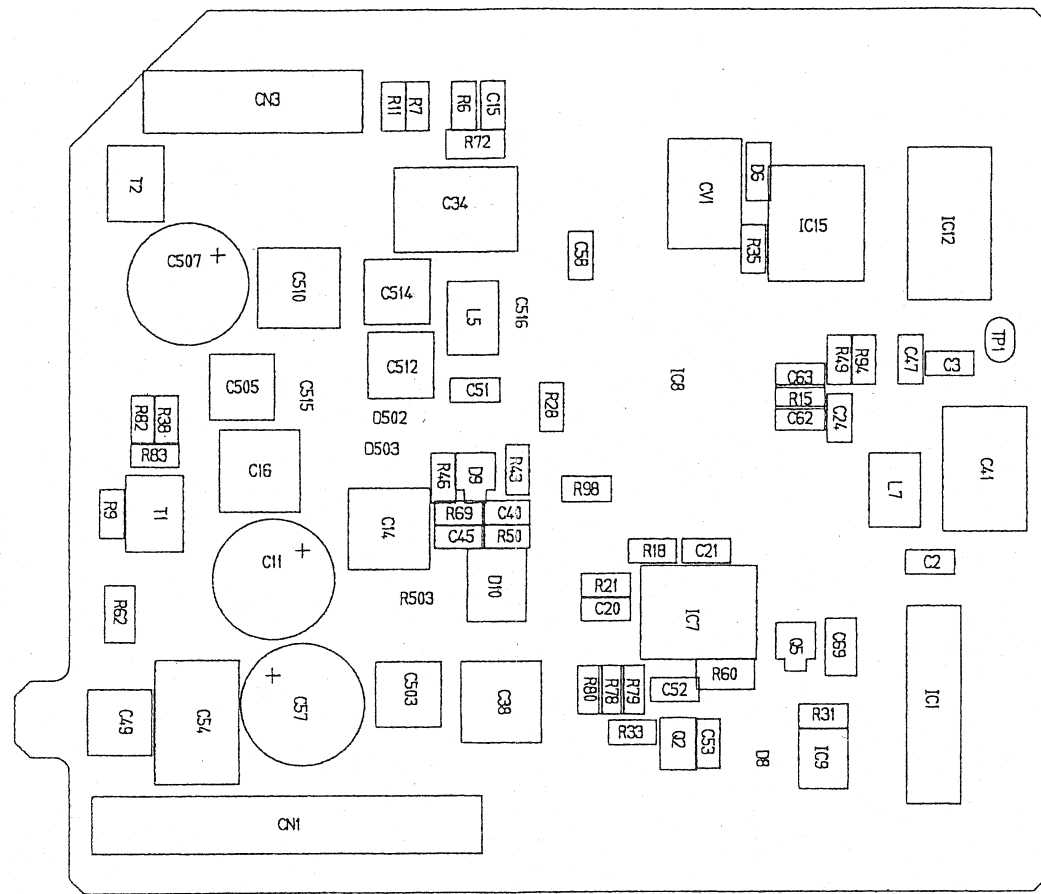
SNS-SR (PT-1494C) SIDE B
[PAL 4:3]



SNS-SG (PT-1495C) SIDE B
[PAL 4:3]

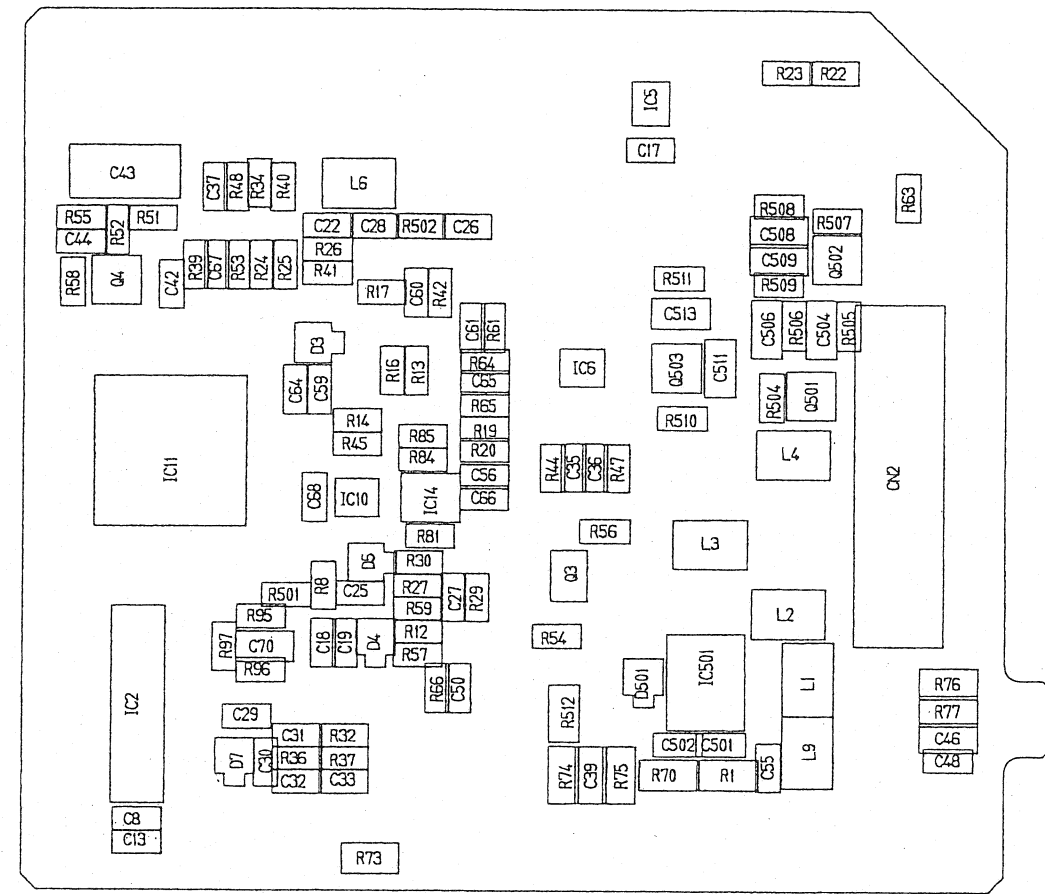


SNS-SB (PT-1496C) SIDE B
[PAL 4:3]



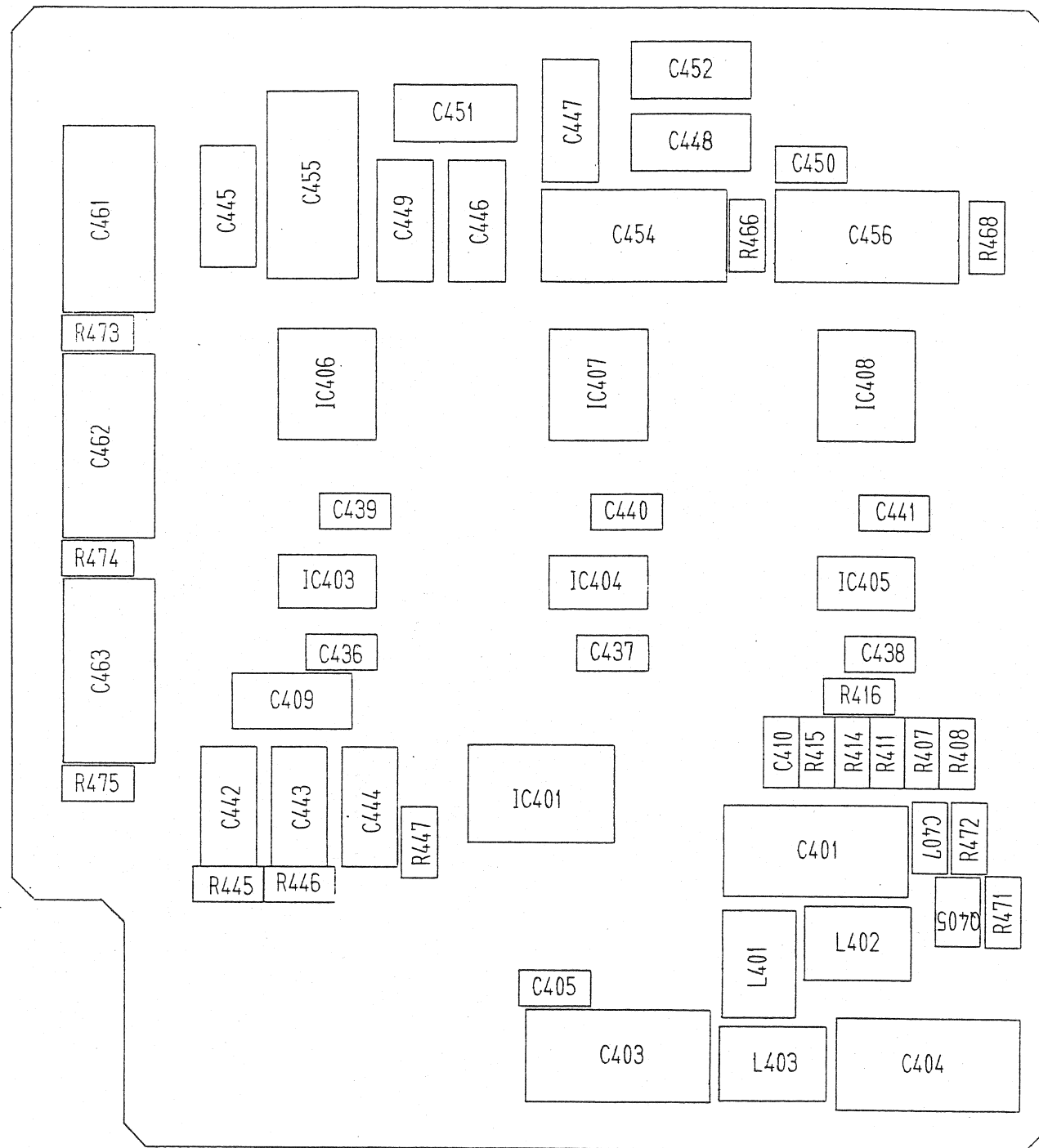
DRV-S5 (PT-1535C) SIDE A

[PAL 4:3]

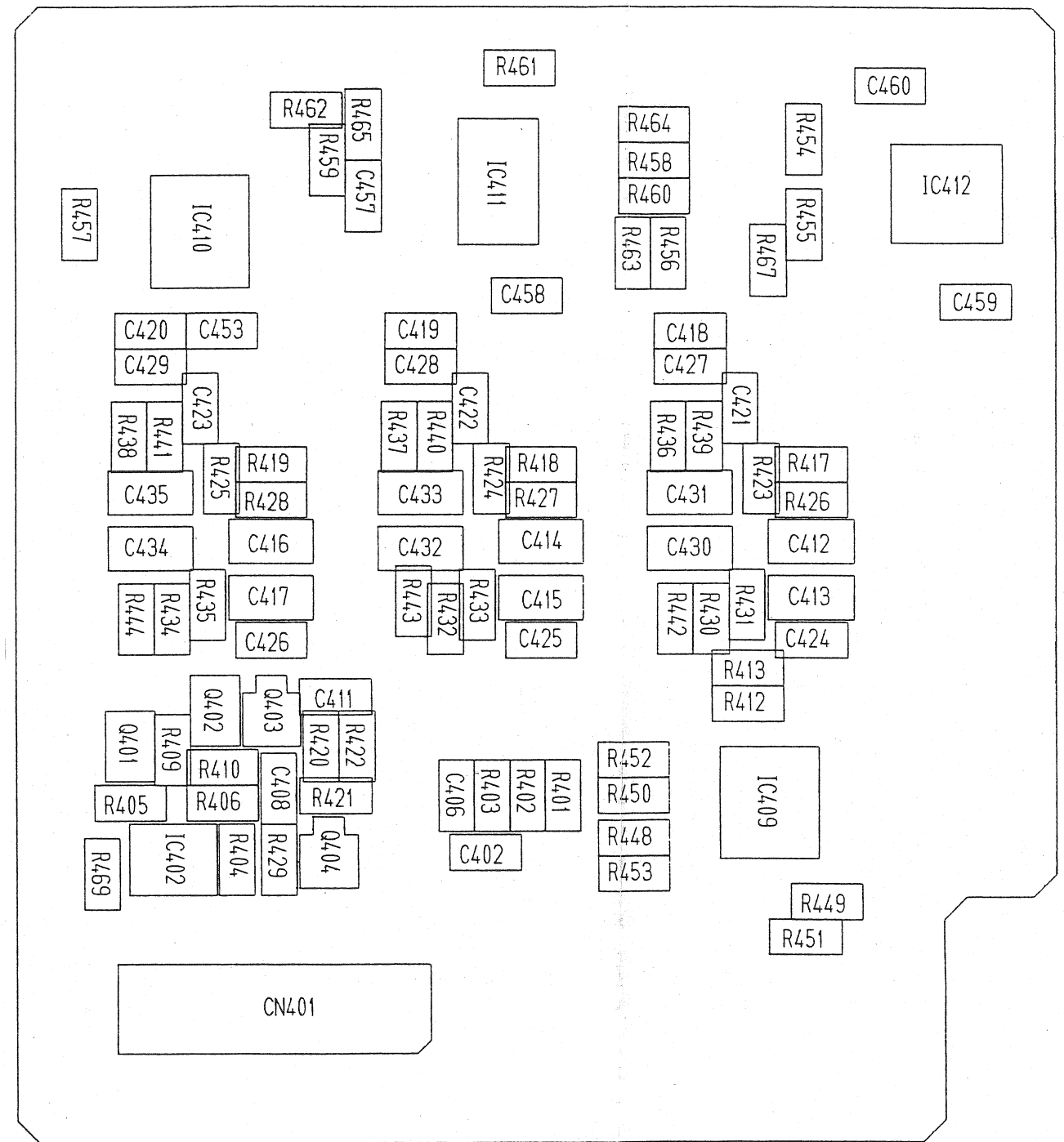


DRV-S5 (PT-1535C) SIDE B

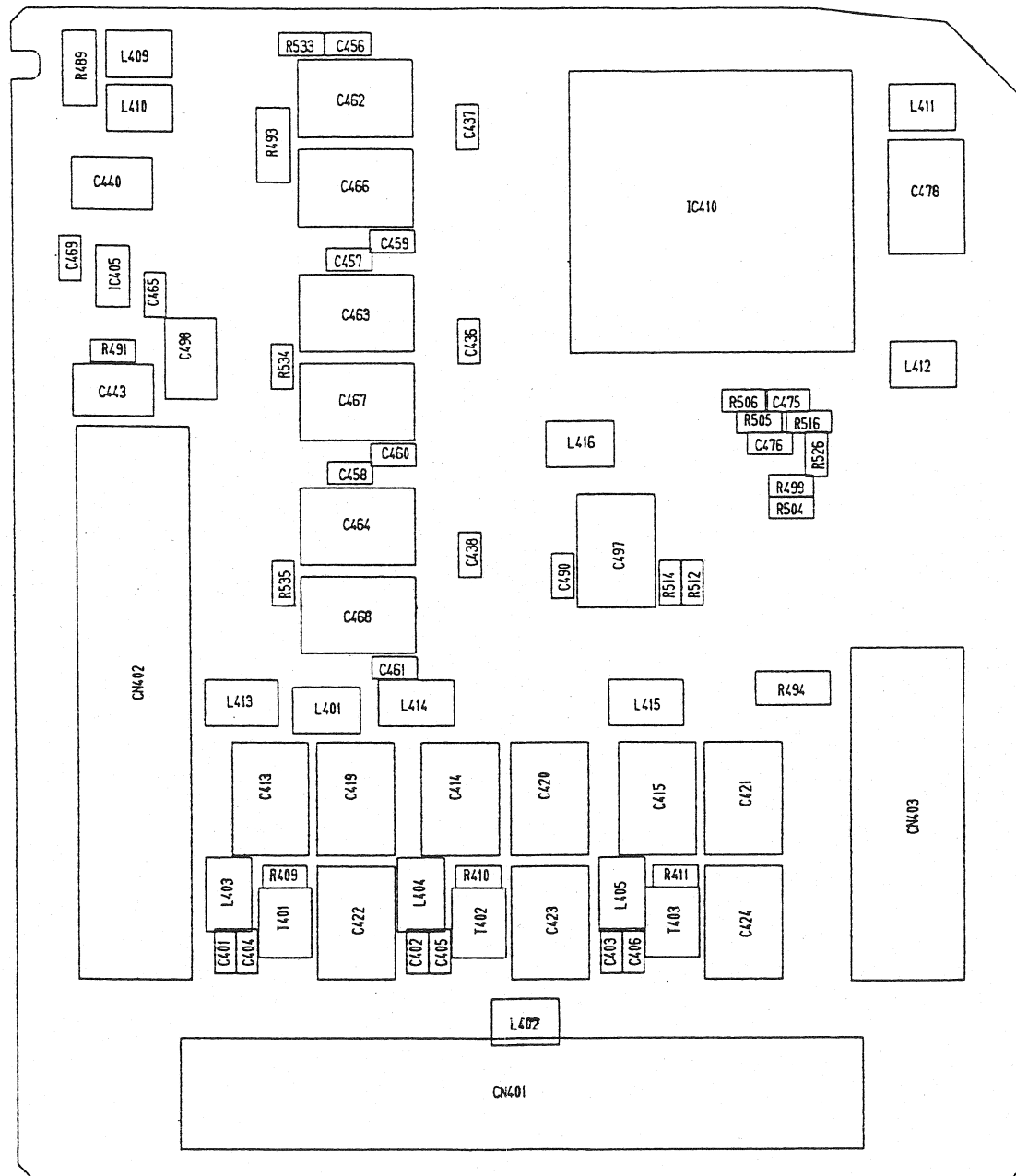
[PAL 4:3]



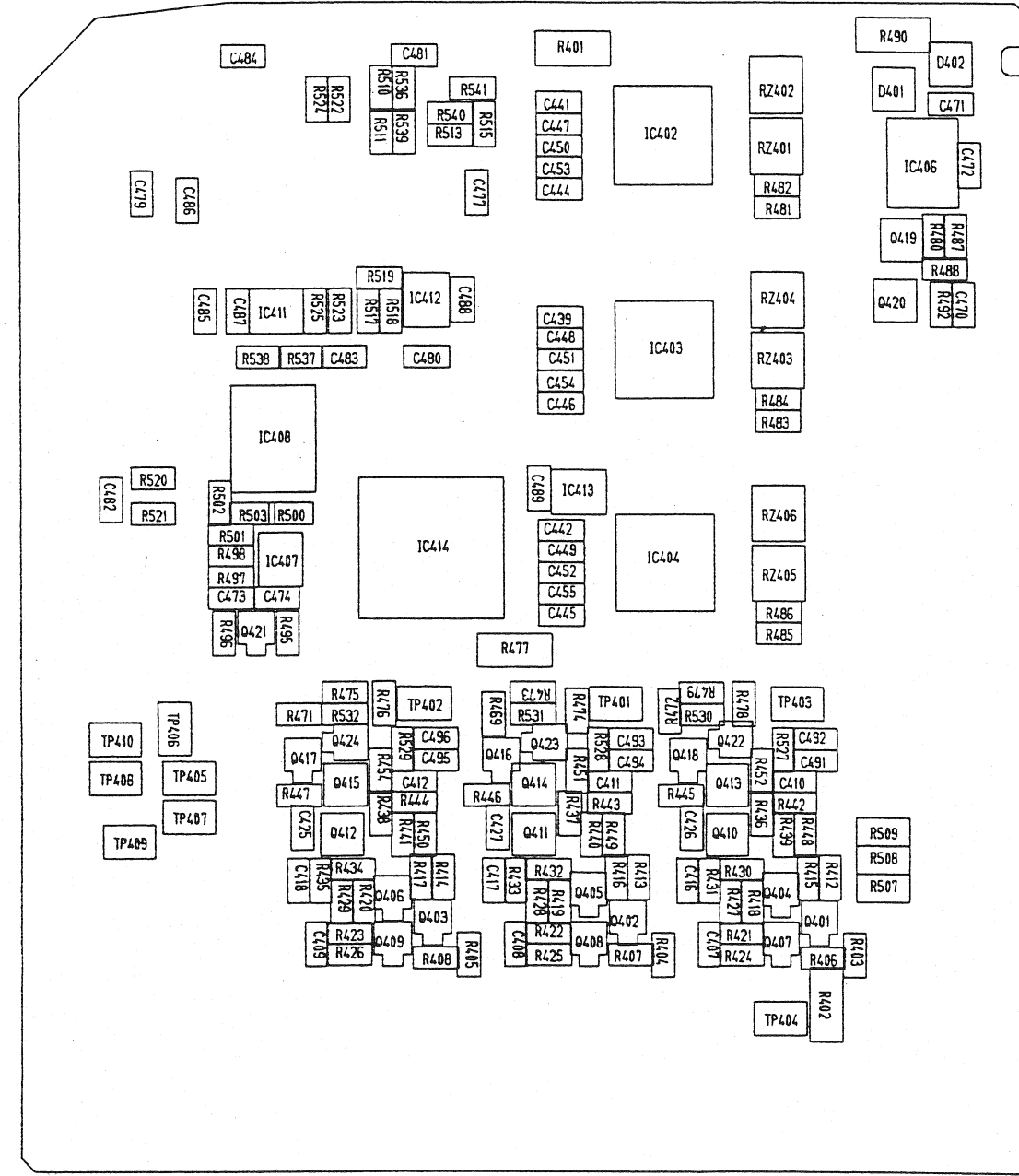
ASP-SUB (PT-1431B) SIDE A



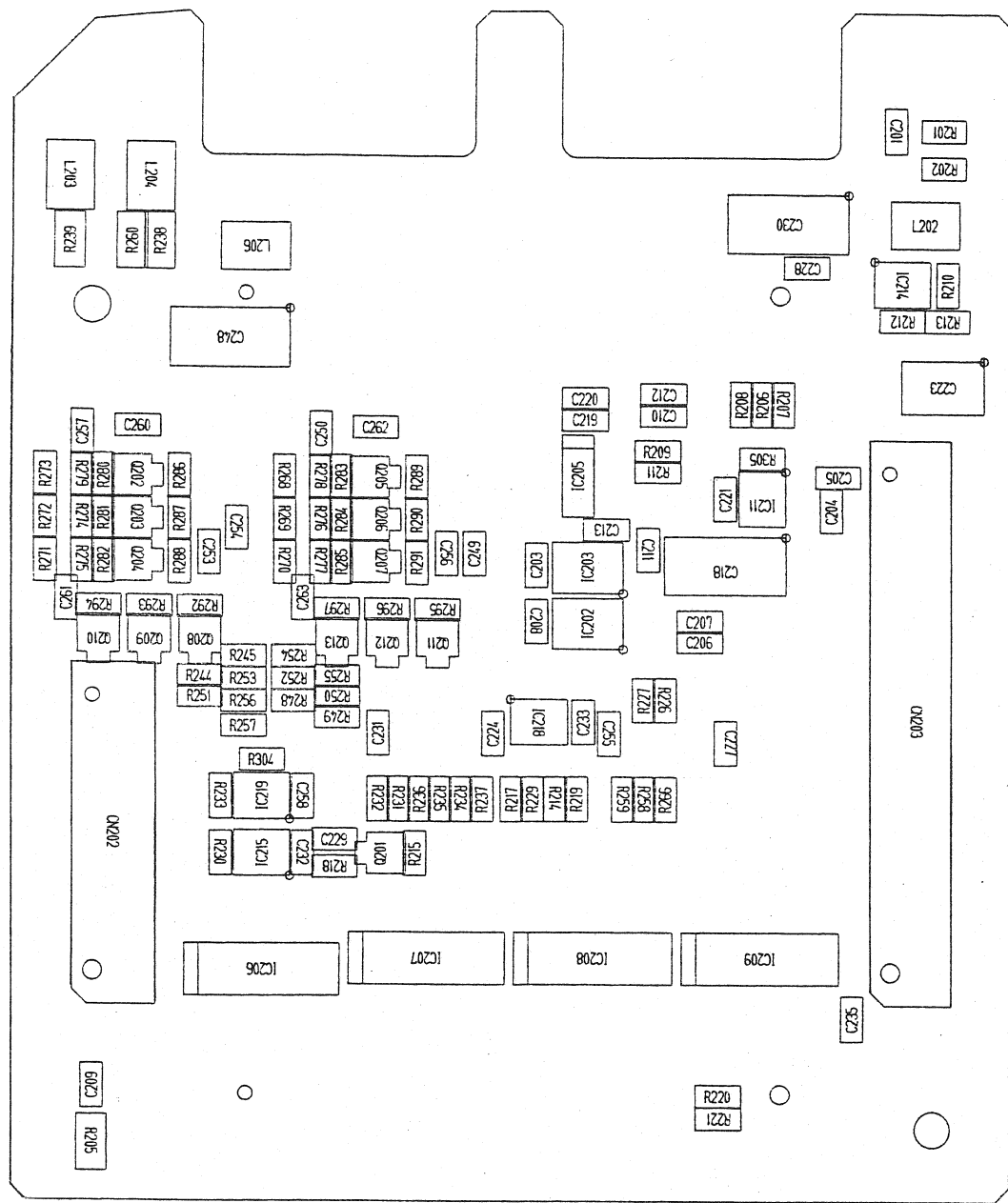
ASP-SUB (PT-1431B) SIDE B



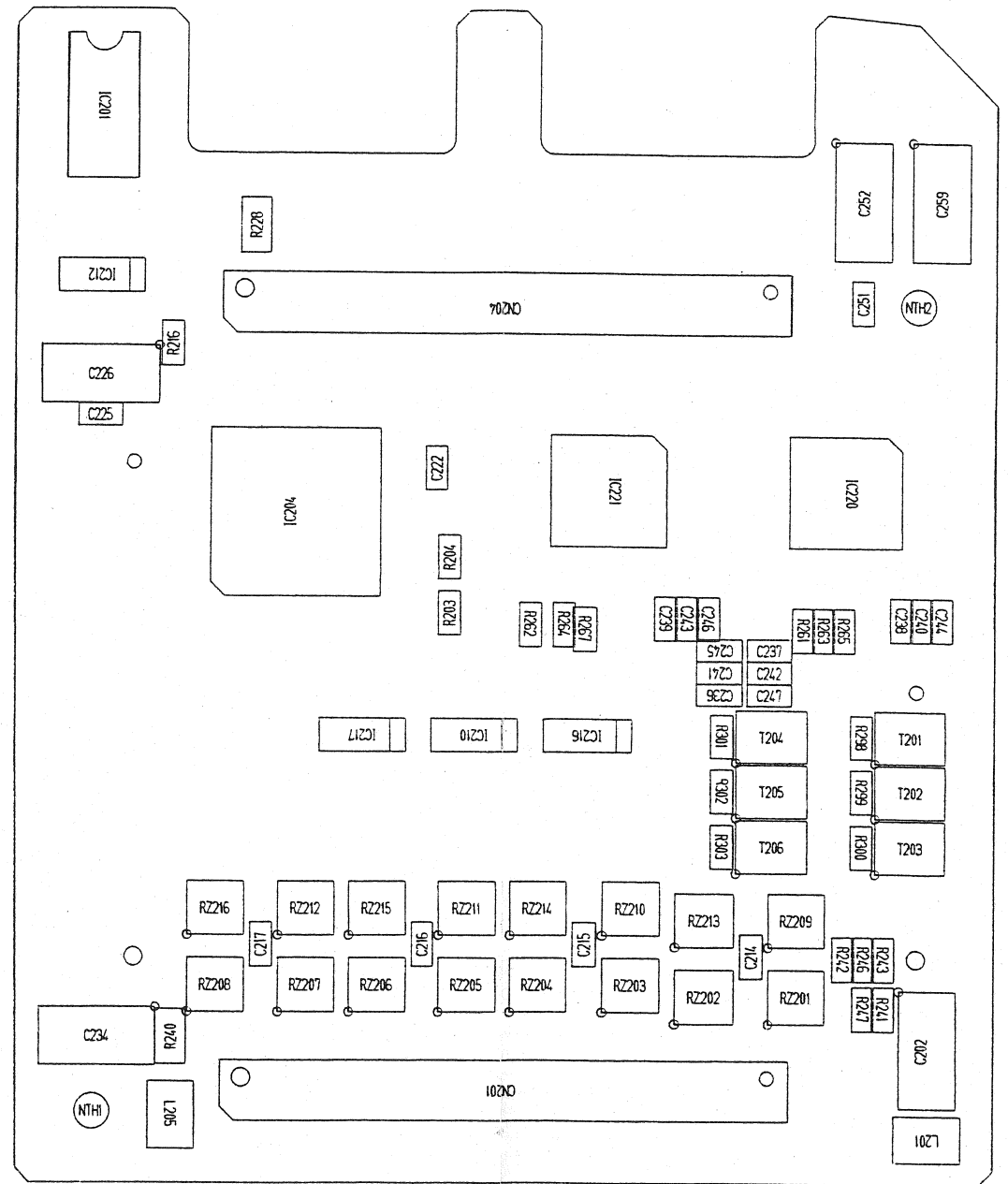
DSP-Z (PT-1320C) SIDE A



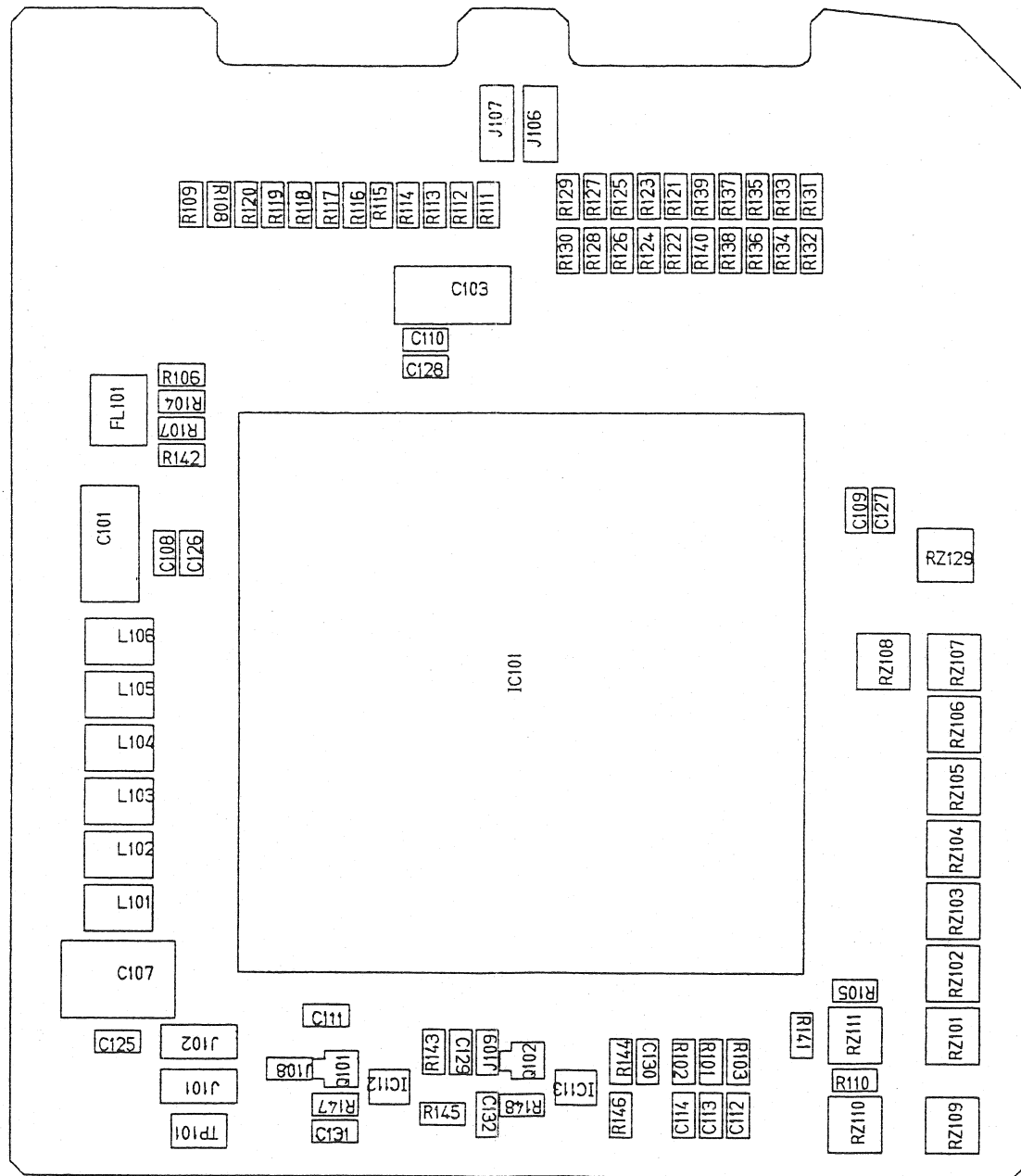
DSP-Z (PT-1320C) SIDE B



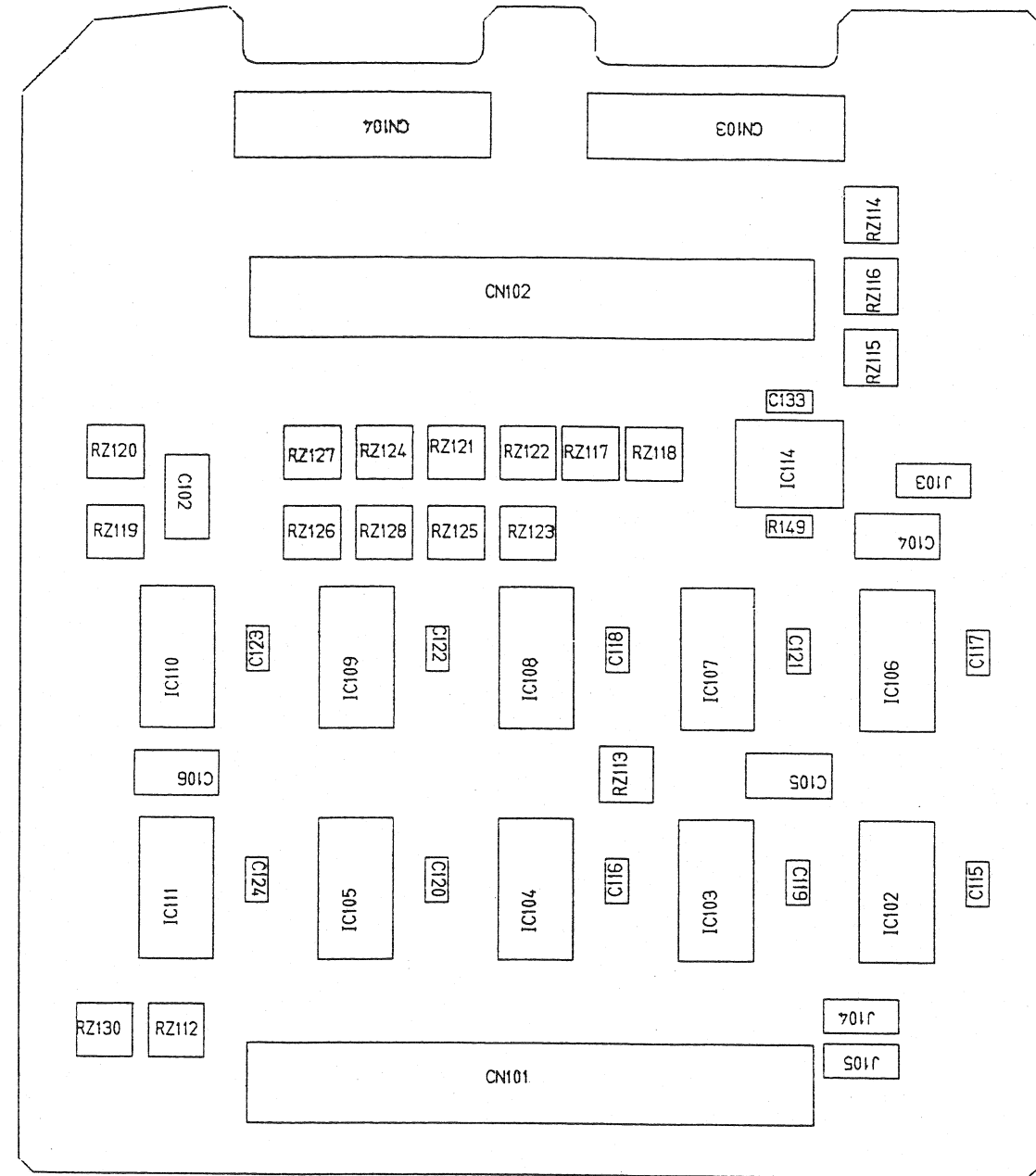
WIDE (PT-1407C) SIDE A



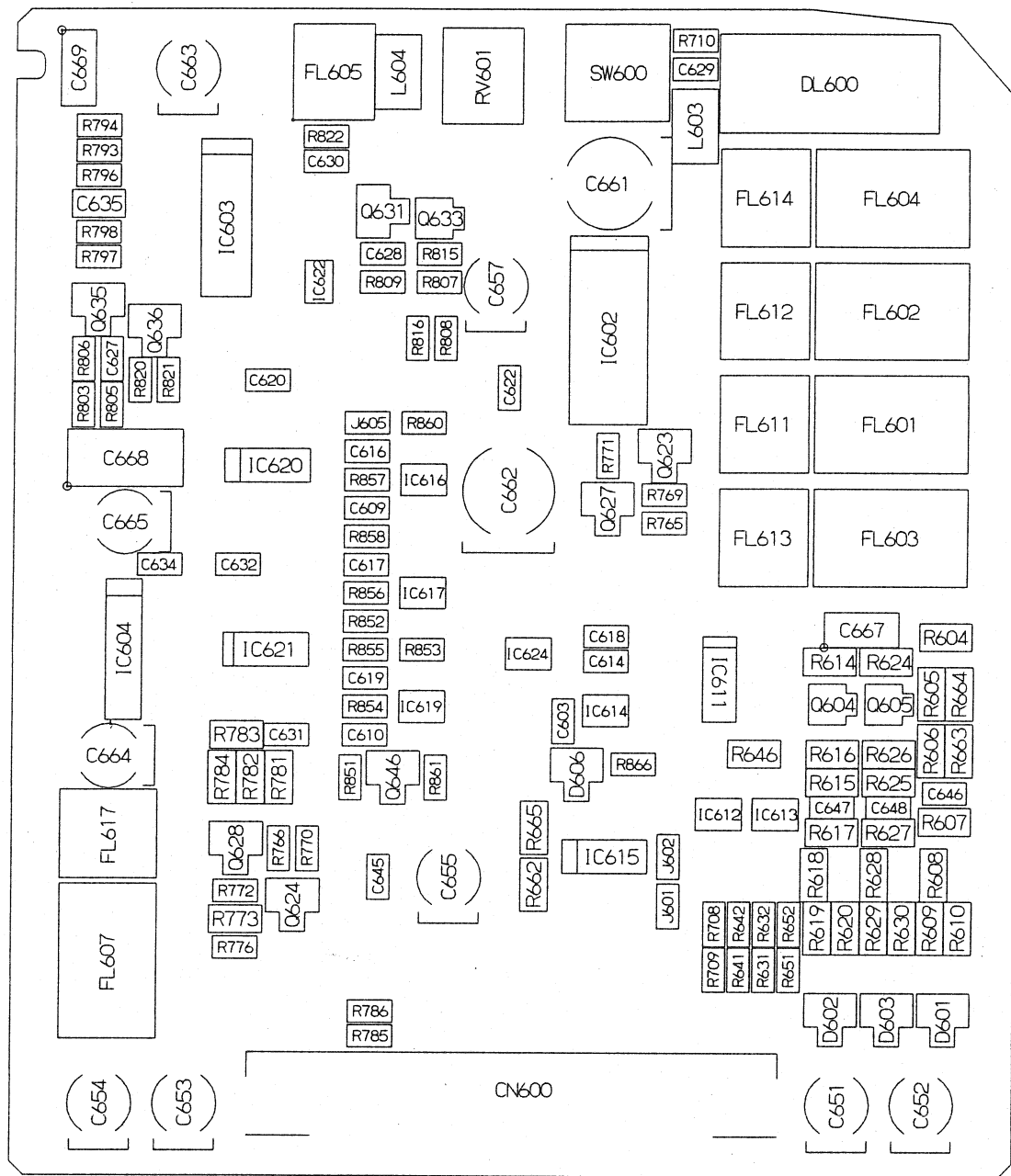
WIDE (PT-1407C) SIDE B



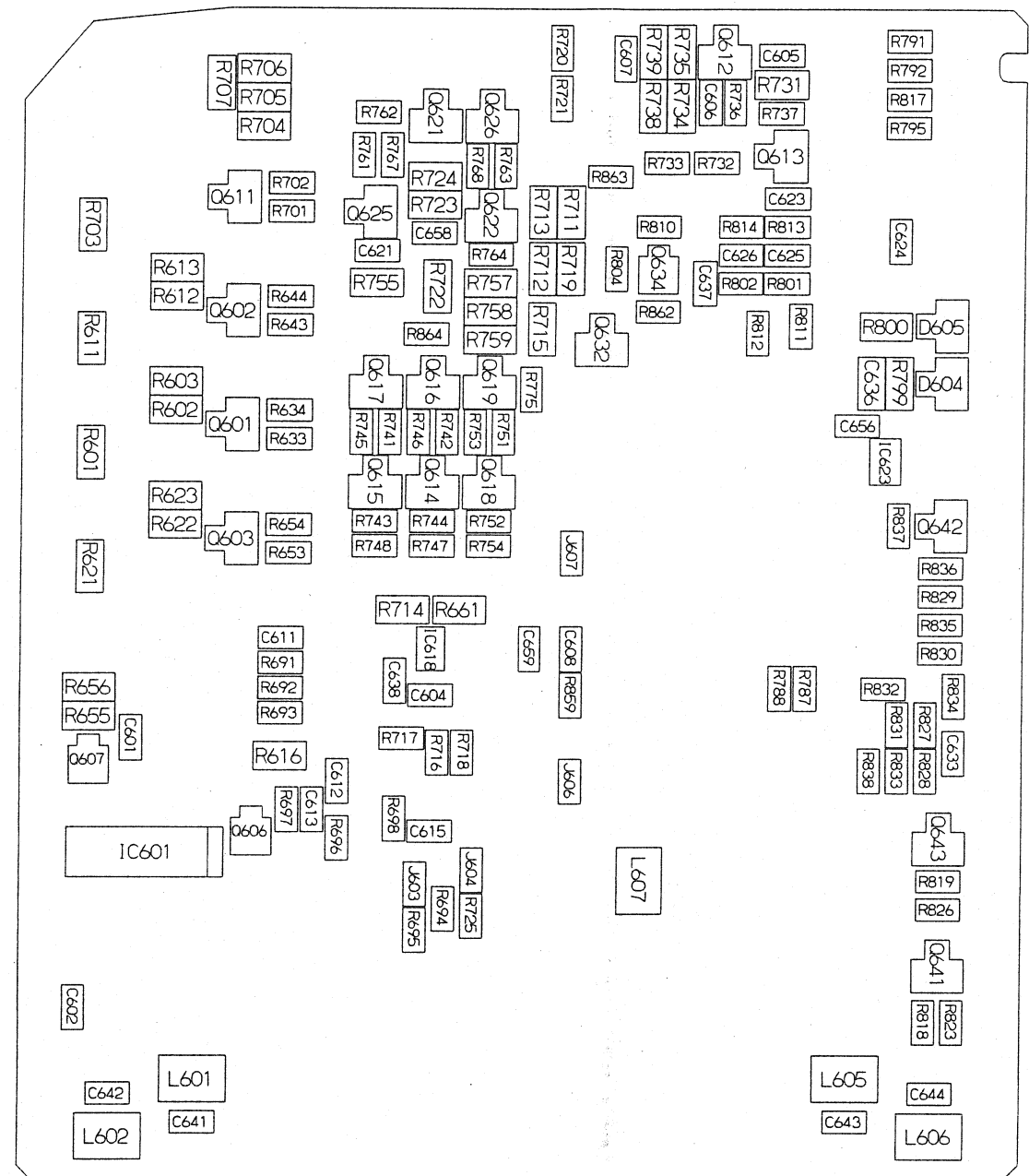
DSP-SUB-Z (PT-1321B) SIDE A



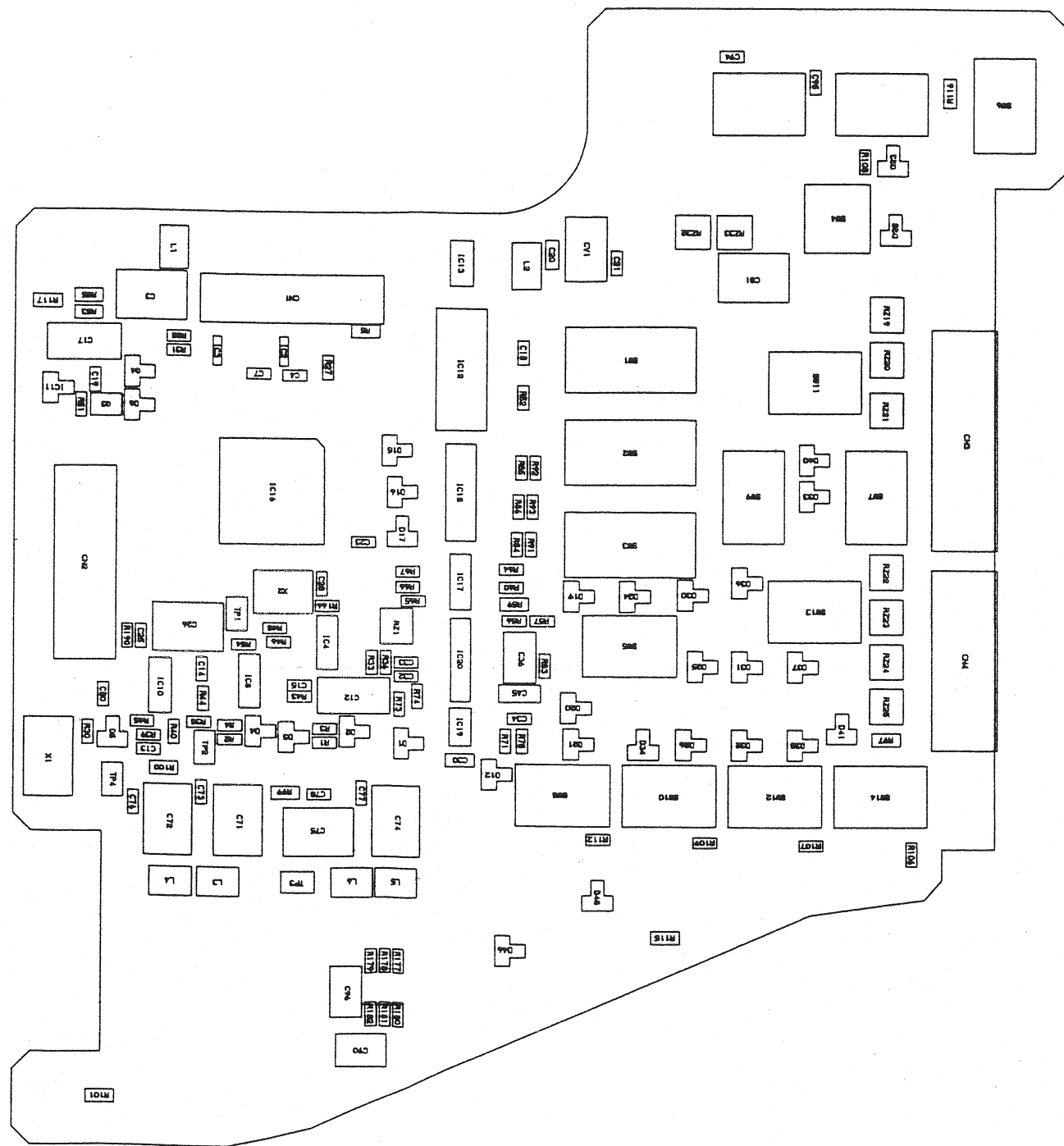
DSP-SUB-Z (PT-1321B) SIDE B



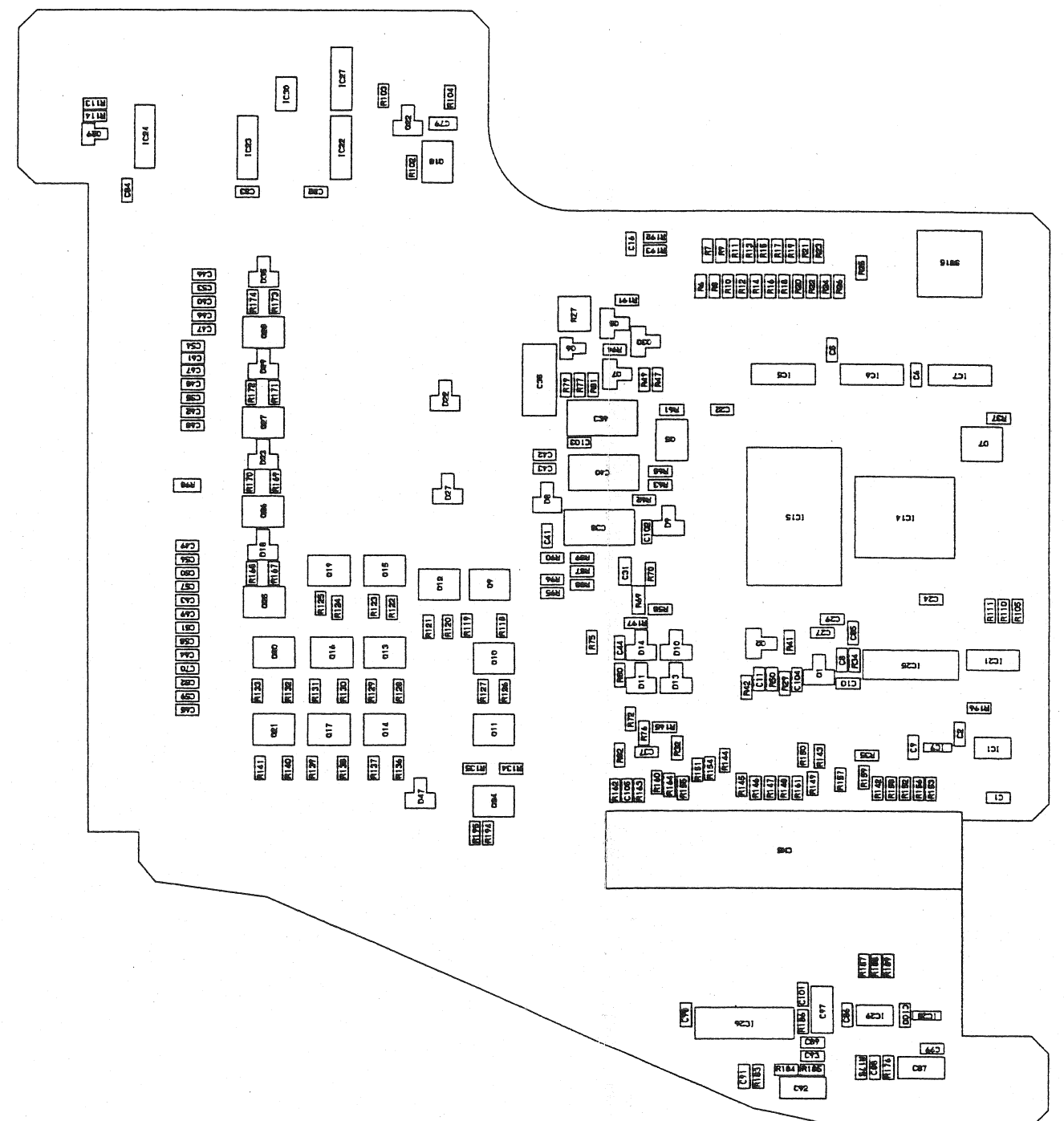
IF-Z SIDE A



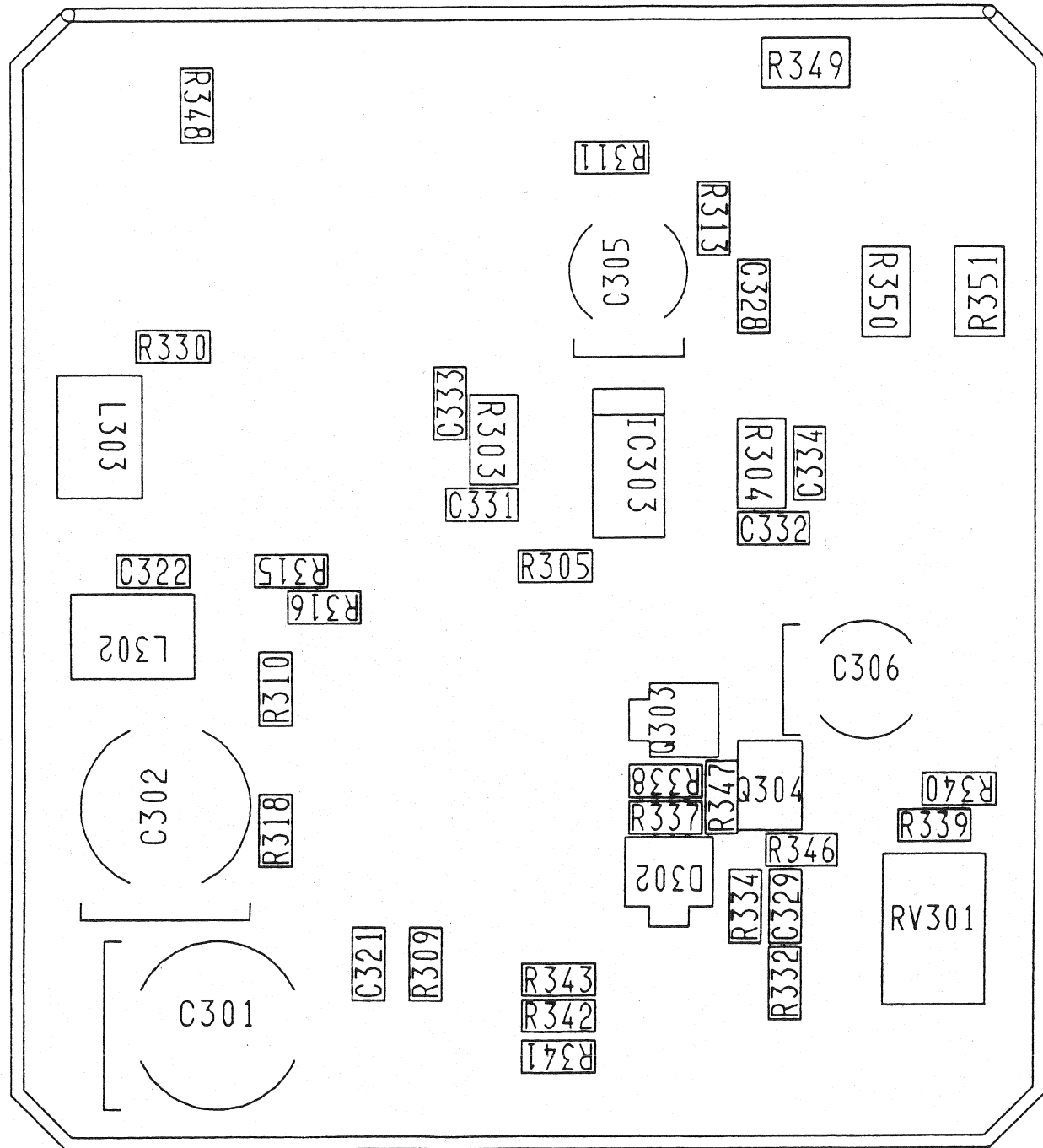
IF-Z SIDE B



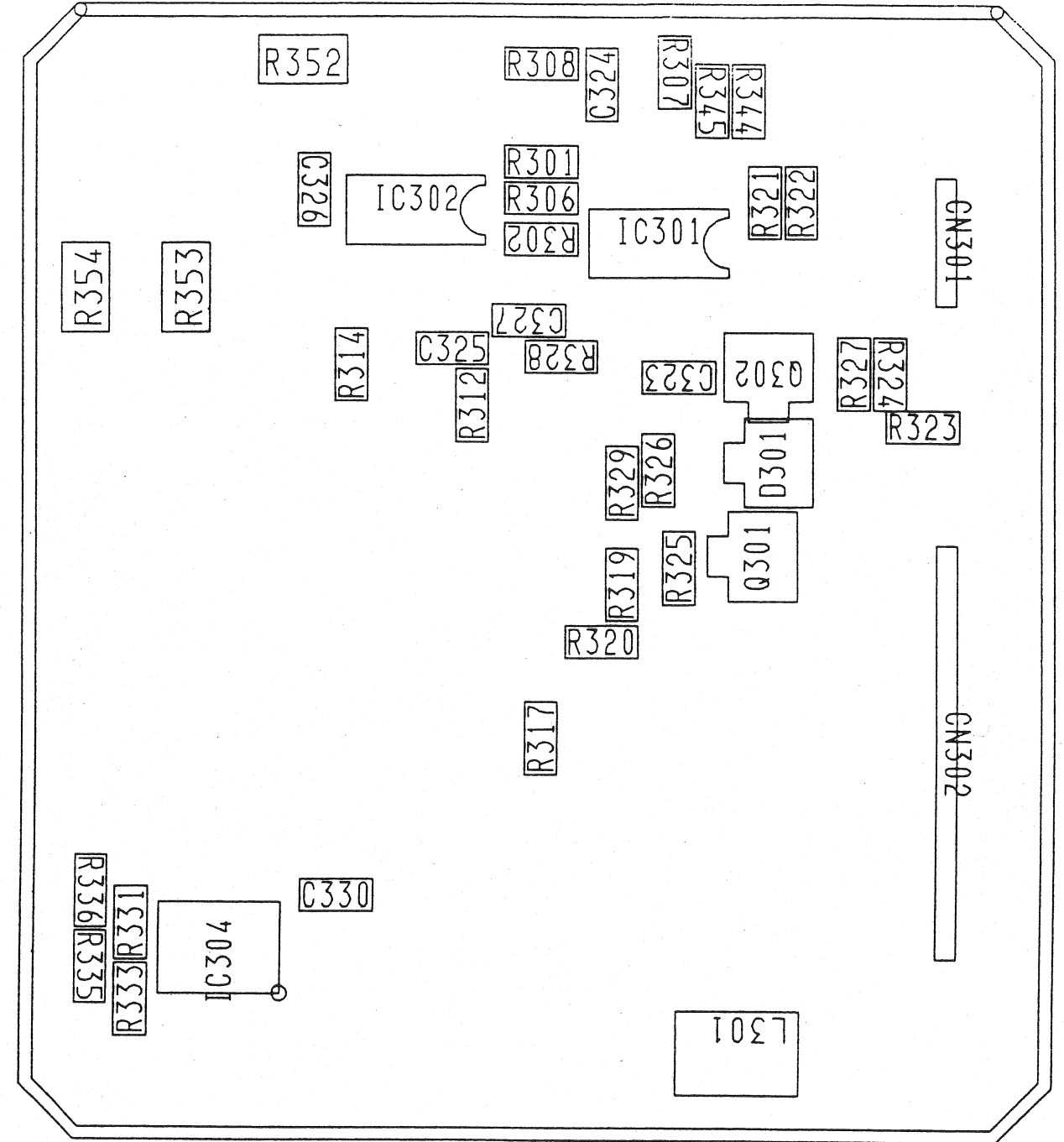
CPU-Z (PT-1434C) SIDE A



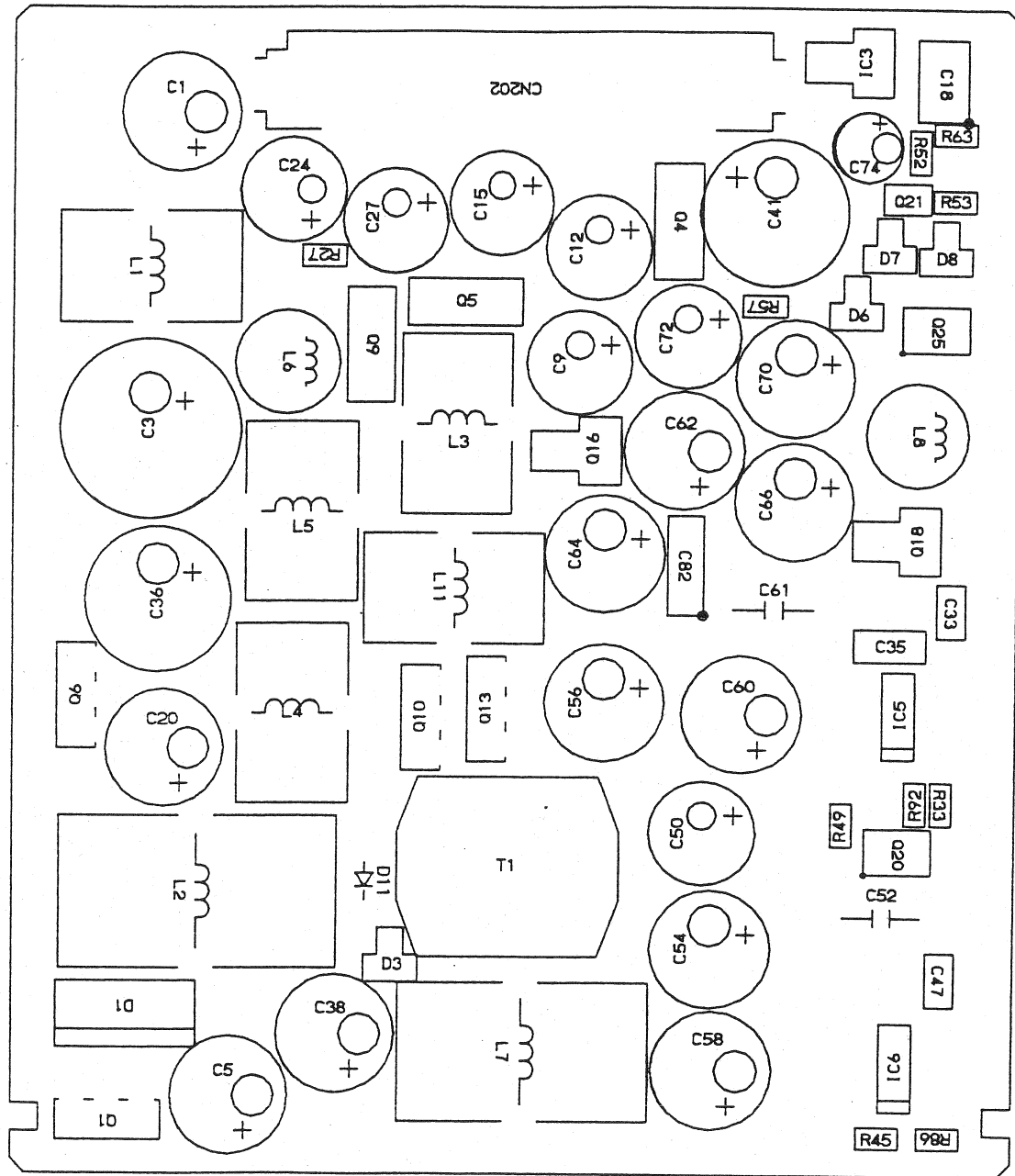
CPU-Z (PT-1434C) SIDE B



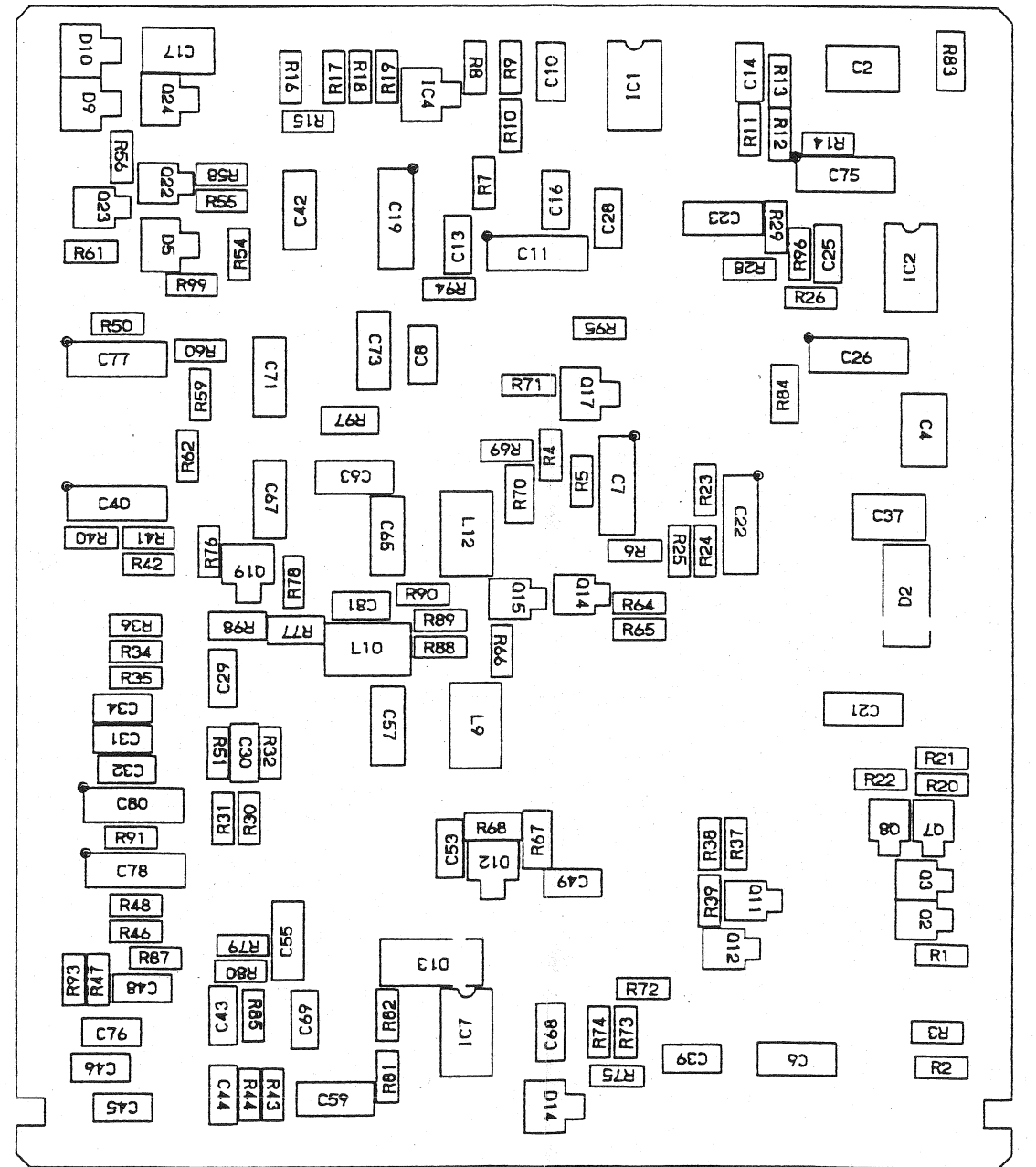
MIC-Z (PT-1435B) SIDE A



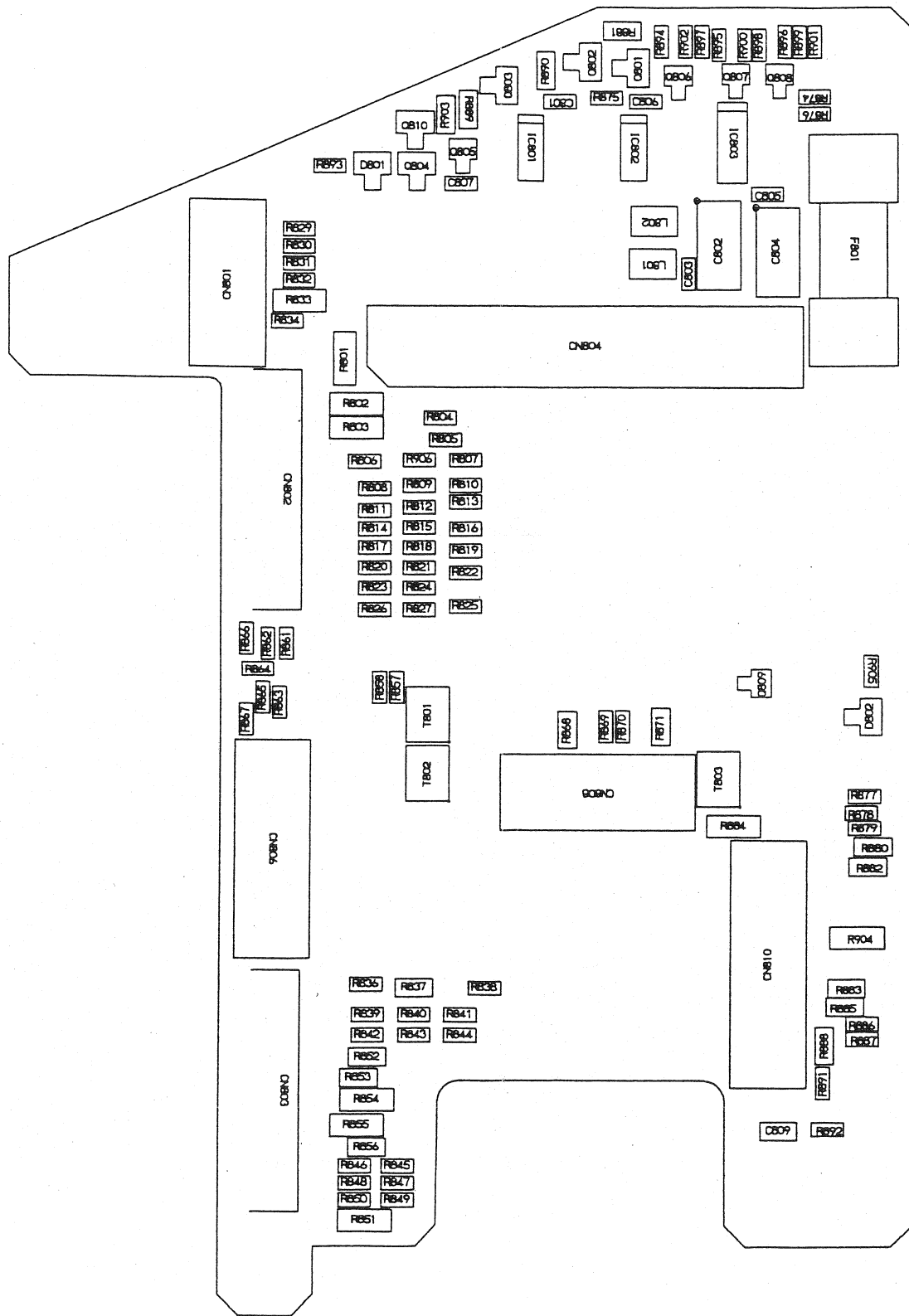
MIC-Z (PT-1435B) SIDE B



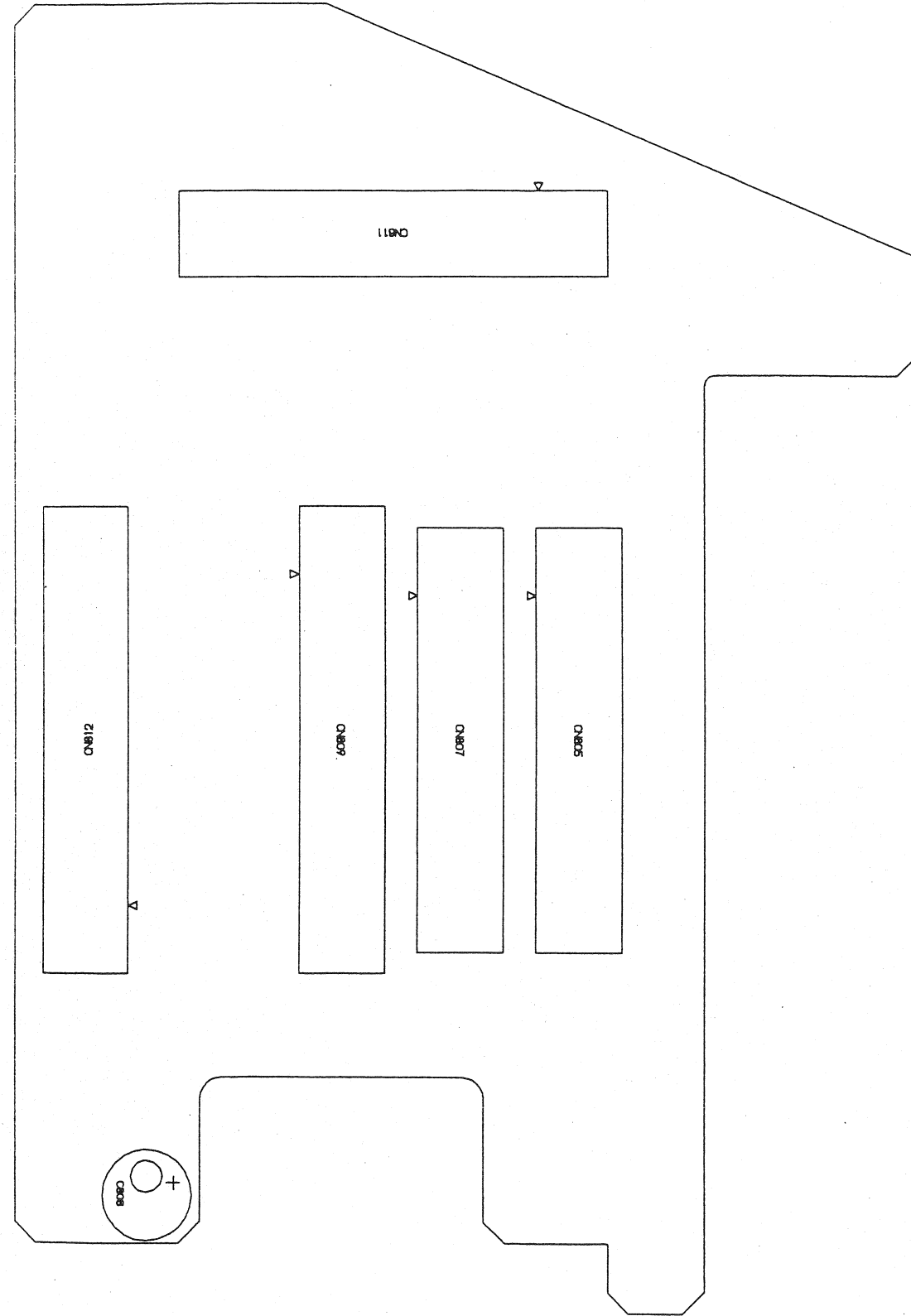
PS-Z (PT-1326C) SIDE A



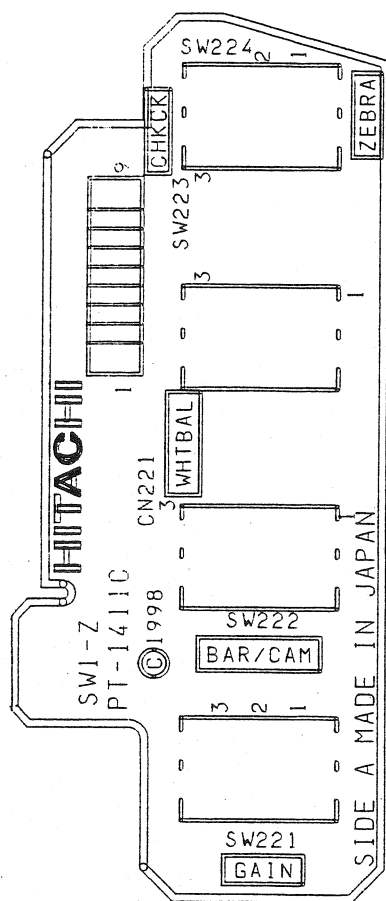
PS-Z (PT-1326C) SIDE B



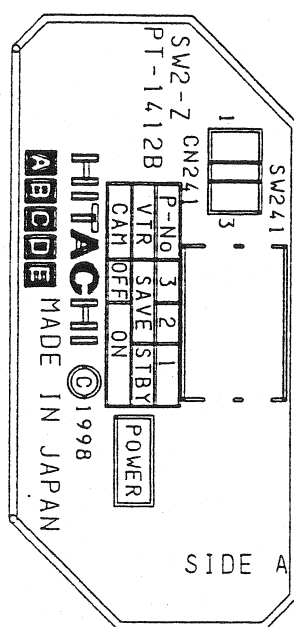
MB-Z (PT-1327C) SIDE A



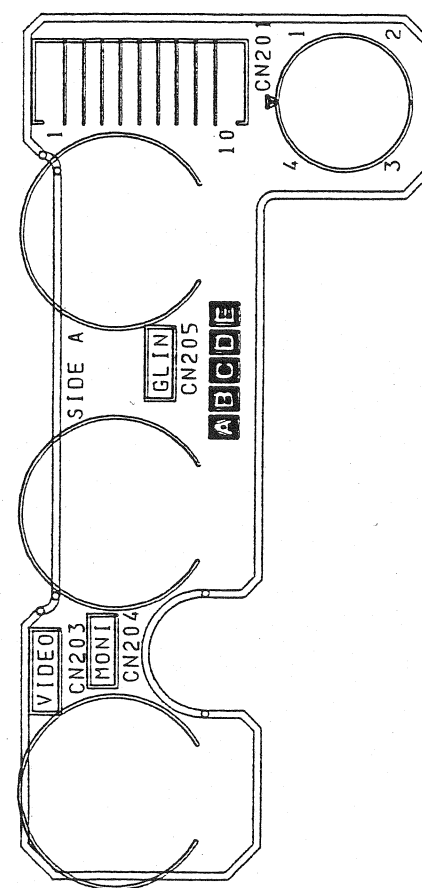
MB-Z (PT-1327C) SIDE B



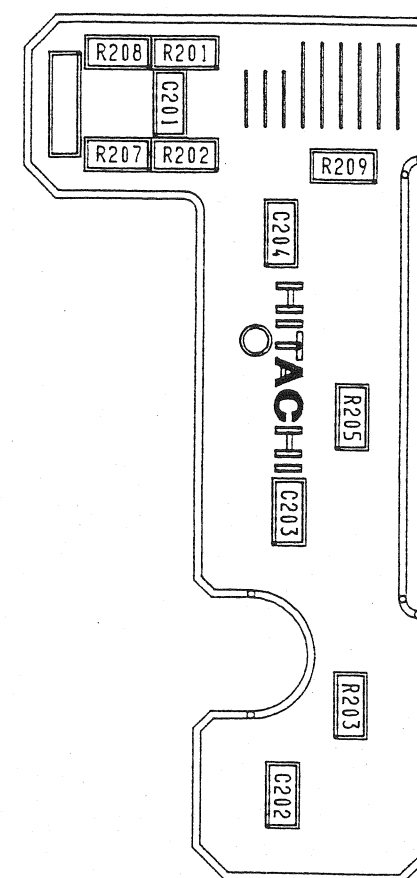
SW1-Z (PT-1411C) SIDE A



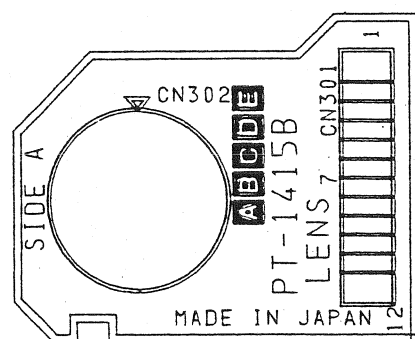
SW2-Z (PT-1412B) SIDE A



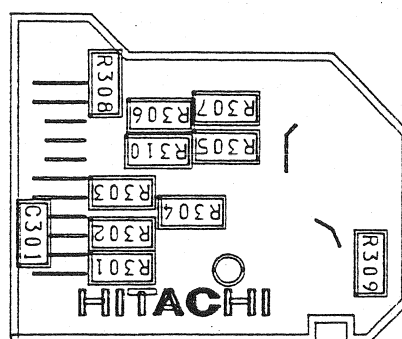
BNC (PT-1414B) SIDE A



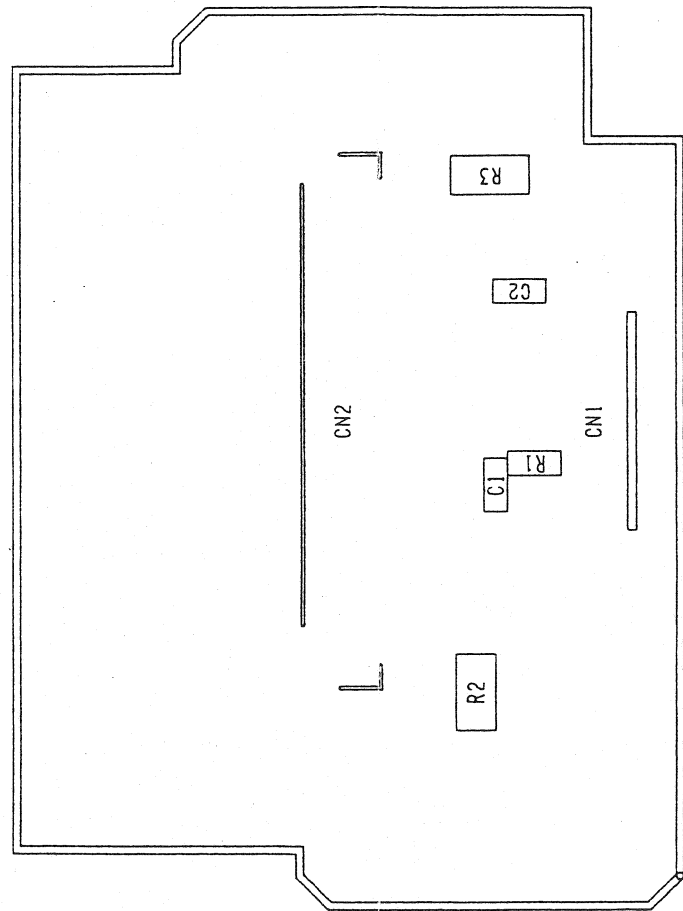
BNC (PT-1414B) SIDE B



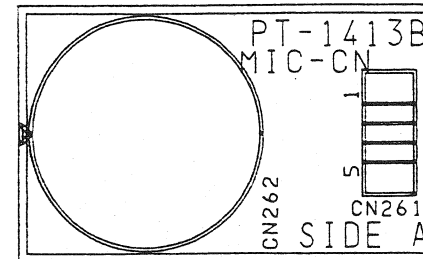
LENS (PT-1415B) SIDE A



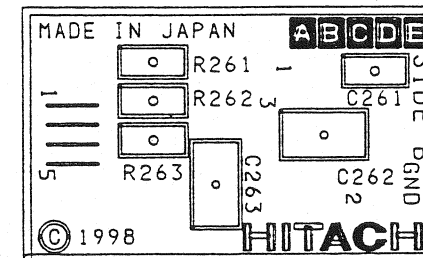
LENS (PT-1415B) SIDE B



CARD-Z (PT-1328A) SIDE A



MIC-CN (PT-1413B) SIDE A



MIC-CN (PT-1413B) SIDE B

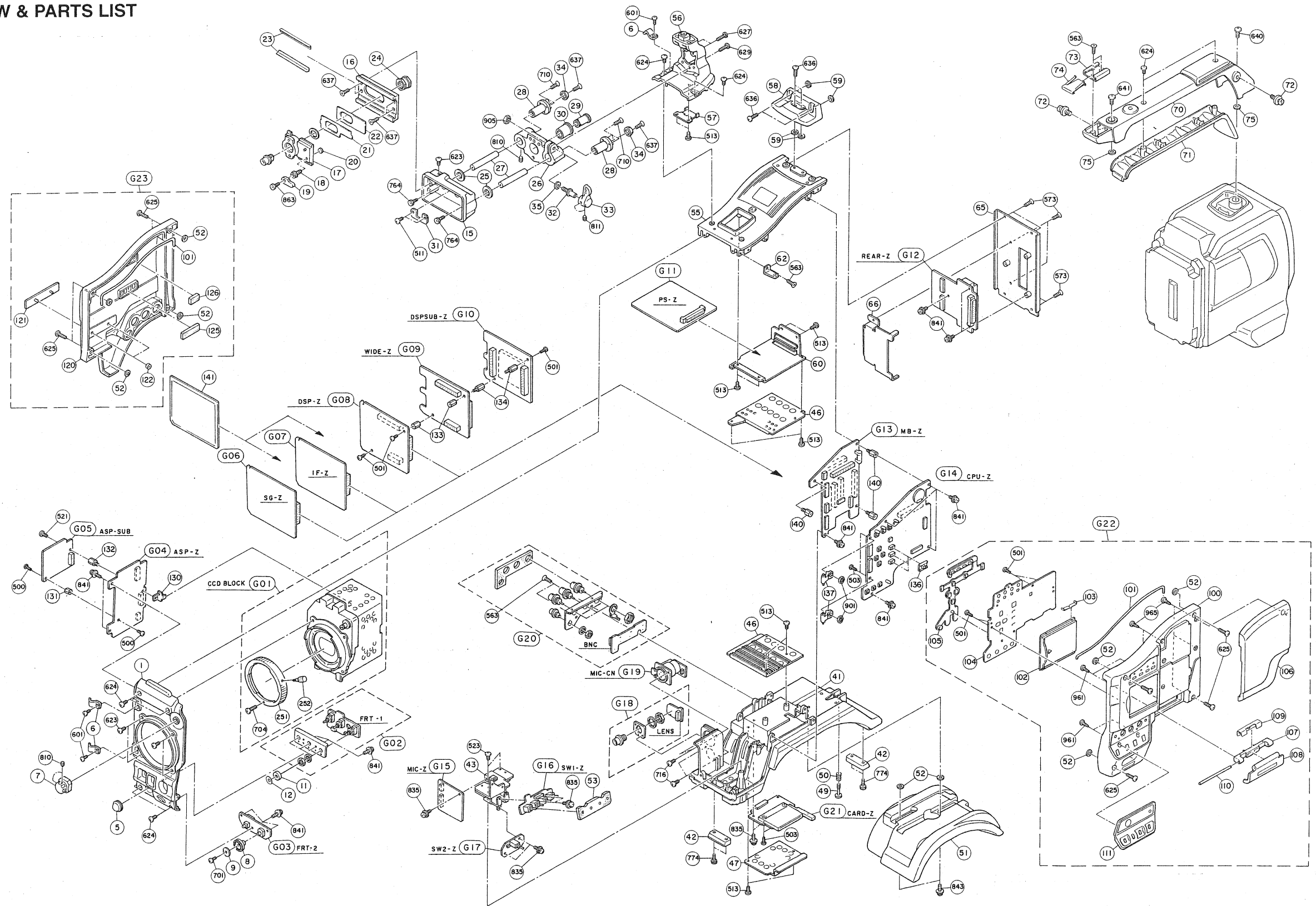
Camera Adaptor CA-Z31, CA-Z32

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Hitachi Kokusai Electric Inc.

8. EXPLODED VIEW & PARTS LIST



MECHANICAL EXPLODED VIEW

MECHANICAL PARTS LIST (NTSC 1/3)

Synbol	Part Code	Description	Q'ty
1	22M0245	FRONT FRAME ASSY	1
5	8525306A	BUSHING	1
6	8638512A	CABLE CLAMPER	3
7	3402234A	FILTER KNOB	1
8	8645009A	VR KNOB	1
9	8645010A	VR LABEL	1
11	8645025A	SW SHIELD CUSHION	3
12	8645026A	SW SHIELD SHEET	3
15	3401358A	VF MOUNT BASE	1
16	8645002A	VF GUIDE A3	1
17	8484185A	VF GUIDE B	1
18	8484190A	SLIDE LOCK SCREW	1
19	8484191A	SLIDE LOCK LEVER	1
20	8484193A	PLATE	1
21	8535729A	SCREEN C	1
22	8535730A	SCREEN D	1
23	8535910A	SLIDE SPACER	2
24	8486394B	VF NUT	1
25	8646793A	CUSHION	2
26	3401357A	SLIDE BASE	1
27	8643291A	SHAFT	2
28	8645004A	SLEEVE	2
29	8646745A	CN SLEEVE A	1
30	8645017A	CN SLEEVE B	1
31	8645018A	STOPPER BRACKET	1
32	8645019A	LOCK SCREW	1
33	3401361A	LOCK LEVER	1
34	8645020A	SHAFT COVER	2
35	8646803A	LOCK SPACER	1
41	132561A	BOTTOM FRAME	1
42	8400606A	STOPPER	2
43	8660504A	SW BRACKET	1
46	3409378A	GUIDE RAIL	2
47	8654143A	BOTTOM COVER	1
49	8366969E	SCREW	1
50	8663452A	SPRING	1
51	2156761A	SHOULDER PAD	1
52	8651916A	WASHER	10
53	8663453A	SW PACKING	1
55	132560A	TOP FRAME	1
56	2156767A	HANDLE BASE	1
57	8663444A	CORE HOLDER	1
58	3409385A	CONNECTION BRACKET	1
59	8651916B	WASHER	4
60	22M0246	PARTITION PLATE	1
62	8660511A	HINGE BRACKET	1
65	8651951AA	REAR PANEL	1
66	22M0247	HEAT SINK PLATE	1
70	132975A	HANDLE	1
71	2154282B	HANDLE COVER (A)	1
72	8403259A	BELT HOOK PIN	2
73	8389132A	SHOE	1
74	8359474A	SHOE SPRING	1
75	8651916C	WASHER	2

MECHANICAL PARTS LIST (NTSC 2/3)

Symbol	Part Code	Description	Q'ty
100	22M0248	LEFT COVER	1
101	8663451A	TUBE PACKING	2
102	3409389A	SLIDE DOOR	1
103	8663437A	STOPPER SUPRING	1
104	3409441A	CPU PANEL	1
105	2156783A	BUTTON	1
106	2159068A	FACE PAD	1
107	3403910A	DOOR BASE	1
108	3403909A	DOOR	1
109	8661635A	DOOR SPRING	1
110	8660567A	DOOR SHAFT	1
111	2156782A	SW PLATE	1
120	22M0249	RIGHT COVER	1
121	8649674A	HITACHI BADGE	1
122	8649697B	PUSH NUT	2
125	8661660A	PCB CUSHION	1
126	8661660B	PCB CUSHION	1
130	8645024A	PCB BRACKET	1
131	8644999A	SPACER	1
132	8660533A	SPACER	1
133	8644999C	SPACER	2
134	8660532A	SPACER	2
136	8661579A	SLIDE SW LEVER	3
137	8651958A	HINGE	2
140	8660533B	SPACER	3
141	8660531A	SHIELD PLATE	2
251	8493975A	LENS MOUNT	1
252	8497381A	MOUNT LOCK LEVER	1
500	XCA6203	SCREW BIND HD M2X3 NIP	2
501	XCA6204	SCREW BIND HD M2X4 NIP	23
503	XCA6206	SCREW BIND HD M2X6 NIP	4
511	XCA6004	SCREW BIND HD M2.6X4 NIP	16
513	XCA6006	SCREW BIND HD M2.6X6 NIP	12
521	XCA1369	SCREW BIND HD M3X4 NIP	1
523	XCA6306	SCREW BIND HD M3X6 NIP	4
563	XCA7006	SCREW FLAT HD M2.6X6 NIP	3
573	XCA7306	SCREW FLAT HD M3X6 NIP	6
601	XCA1890	SCREW BIND HD M2X4 DNIP	3
623	XCA1817	SCREW BIND HD M3X6 DNIP	7
624	XCA1818	SCREW BIND HD M3X8 DNIP	5
625	XCA1820	SCREW BIND HD M3X10 DNIP	8
627	XCA1822	SCREW BIND HD M3X14 DNIP	2
629	8491329A	SCREW BIND HD M3X20 DNIP	1
636	8487483C	SCREW BIND HD M4X12 DNIP	4
637	8487483B	SCREW BIND HD M4X16 DNIP	6
640	8504971D	SCREW BIND HD M5X10 DNIP	1
641	8504971E	SCREW BIND HD M5X12 DNIP	1
701	8447518A	SCREW PAN HD M1.4X4 NIP	1
710	8585200B	SCREW FLAT HD M2X5 DZNP	2
716	8522813B	SCREW PAN HD M2.6X6 DNIP	4
764	XCA0302	BOLT HEX. SOCKET HD M3X8	2
774	XCA0308	BOLT HEX. SOCKET HD M4X8	4
810	XCA1690	SET SCREW M2.6X3	3
811	XCA0161	SET SCREW M3X3	2
835	8345937G	SCREW W/W,SW SEMS M2.6X5	7
841	XCA0689	SCREW W/W,SW SEMS M3X6	15
863	8497541A	BOLT HEX. SOCKET HD M3X6	1

MECHANICAL PARTS LIST (NTSC 3/3)

Symbol	Part Code	Description	Q'ty
901	XCA1704	NUT M2	8
905	XCA0143	NUT M5	1
961	8651995B	SCREW P-TIGHT M2.6X6 ZNP	4
965	8651995D	SCREW P-TIGHT M3X6 ZNP	6
G01	22X0784	CCD BLOCK (NTSC 16:9/4:3)	1
G01	22X0785	CCD BLOCK (NTSC 4:3)	1
G02	22X0752	FRT-1 UNIT	1
G03	22E0414	FRT-2 UNIT	1
G04	22E0458	ASP-Z UNIT (NTSC 16:9/4:3)	1
G04	22E0459	ASP-Z UNIT (NTSC 4:3)	1
G05	22E0460	ASP-SUB UNIT	1
G06	22E0461	SG-Z UNIT (NTSC 16:9/4:3)	1
G06	22E0462	SG-Z UNIT (NTSC 4:3)	1
G07	22E0463	IF-Z UNIT (NTSC 16:9/4:3)	1
G07	22E0464	IF-Z UNIT (NTSC 4:3)	1
G08	22E0465	DSP-Z UNIT (NTSC 16:9/4:3)	1
G08	22E0466	DSP-Z UNIT (NTSC 4:3)	1
G09	22E0467	WIDE-Z UNIT (NTSC 16:9/4:3)	1
G09	22E0468	WIDE-Z UNIT (NTSC 4:3)	1
G10	22X0786	DSPSUB-Z UNIT	1
G11	22X0787	PS-Z UNIT (NTSC 16:9/4:3)	1
G11	22X0788	PS-Z UNIT (NTSC 4:3)	1
G12	22E0469	REAR-Z UNIT	1
G13	22E0470	MB-Z UNIT (NTSC 16:9/4:3)	1
G13	22E0471	MB-Z UNIT (NTSC 4:3)	1
G14	22E0472	CPU-Z UNIT (NTSC 16:9/4:3)	1
G14	22E0473	CPU-Z UNIT (NTSC 4:3)	1
G15	22E0474	MIC-Z UNIT	1
G16	22E0475	SW1-Z UNIT	1
G17	22E0476	SW2-Z UNIT	1
G18	22X0789	LENS UNIT	1
G19	22E0477	MIC-CN UNIT	1
G20	22X0790	BNC UNIT	1
G21	22E0478	CARD-Z UNIT	1
G22	22M0243	LEFT COVER ASSY	1
G23	22M0244	RIGHT COVER ASSY	1

MECHANICAL PARTS LIST (PAL 1/3)

Synbol	Part Code	Description	Q'ty
1	22M0253	FRONT FRAME ASSY	1
5	8525306A	BUSHING	1
6	8638512A	CABLE CLAMPER	3
7	3402234A	FILTER KNOB	1
8	8645009A	VR KNOB	1
9	8645010A	VR LABEL	1
11	8645025A	SW SHIELD CUSHION	3
12	8645026A	SW SHIELD SHEET	3
15	3401358A	VF MOUNT BASE	1
16	8645002A	VF GUIDE A3	1
17	8484185A	VF GUIDE B	1
18	8484190A	SLIDE LOCK SCREW	1
19	8484191A	SLIDE LOCK LEVER	1
20	8484193A	PLATE	1
21	8535729A	SCREEN C	1
22	8535730A	SCREEN D	1
23	8535910A	SLIDE SPACER	2
24	8486394B	VF NUT	1
25	8646793A	CUSHION	2
26	3401357A	SLIDE BASE	1
27	8643291A	SHAFT	2
28	8645004A	SLEEVE	2
29	8646745A	CN SLEEVE A	1
30	8645017A	CN SLEEVE B	1
31	8645018A	STOPPER BRACKET	1
32	8645019A	LOCK SCREW	1
33	3401361A	LOCK LEVER	1
34	8645020A	SHAFT COVER	2
35	8646803A	LOCK SPACER	1
41	22M0254	BOTTOM FRAME ASSY	1
42	8400606A	STOPPER	2
43	22M0255	SW BRACKET	1
46	3409378A	GUIDE RAIL	2
47	8654143A	BOTTOM COVER	1
49	8366969E	SCREW	1
50	8663452A	SPRING	1
51	2156761A	SHOULDER PAD	1
52	8651916A	WASHER	10
53	8663453A	SW PACKING	1
55	132560A	TOP FRAME	1
56	2156767A	HANDLE BASE	1
57	8663444A	CORE HOLDER	1
58	3409385A	CONNECTION BRACKET	1
59	8651916B	WASHER	4
60	22M0246	PARTITION PLATE	1
62	8660511A	HINGE BRACKET	1
65	8651951AA	REAR PANEL	1
66	22M0247	HEAT SINK PLATE	1
70	132975A	HANDLE	1
71	2154282B	HANDLE COVER (A)	1
72	8403259A	BELT HOOK PIN	2
73	8389132A	SHOE	1
74	8359474A	SHOE SPRING	1
75	8651916C	WASHER	2

MECHANICAL PARTS LIST (PAL 2/3)

Symbol	Part Code	Description	Q'ty
100	22M0256	LEFT COVER	1
101	8675922B	SHIELD PACKING	2
102	3409389A	SLIDE DOOR	1
103	8663437A	STOPPER SUPRING	1
104	3409441A	CPU PANEL	1
105	2156783A	BUTTON	1
106	2159068A	FACE PAD	1
107	3403910A	DOOR BASE	1
108	3403909A	DOOR	1
109	8661635A	DOOR SPRING	1
110	8660567A	DOOR SHAFT	1
111	2156782A	SW PLATE	1
120	22M0249	RIGHT COVER	1
121	8649674A	HITACHI BADGE	1
122	8649697B	PUSH NUT	2
125	8661660A	PCB CUSHION	1
126	8661660B	PCB CUSHION	1
130	8645024A	PCB BRACKET	1
131	8644999A	SPACER	1
132	8660533A	SPACER	1
133	8644999C	SPACER	2
134	8660532A	SPACER	2
136	8661579A	SLIDE SW LEVER	3
137	8651958A	HINGE	2
140	8660533B	SPACER	3
141	8660531A	SHIELD PLATE	2
251	8493975A	LENS MOUNT	1
252	8497381A	MOUNT LOCK LEVER	1
500	XCA6203	SCREW BIND HD M2X3 NIP	2
501	XCA6204	SCREW BIND HD M2X4 NIP	23
503	XCA6206	SCREW BIND HD M2X6 NIP	4
511	XCA6004	SCREW BIND HD M2.6X4 NIP	16
513	XCA6006	SCREW BIND HD M2.6X6 NIP	12
521	XCA1369	SCREW BIND HD M3X4 NIP	1
523	XCA6306	SCREW BIND HD M3X6 NIP	4
563	XCA7006	SCREW FLAT HD M2.6X6 NIP	3
573	XCA7306	SCREW FLAT HD M3X6 NIP	6
601	XCA1890	SCREW BIND HD M2X4 DNIP	3
623	XCA1817	SCREW BIND HD M3X6 DNIP	7
624	XCA1818	SCREW BIND HD M3X8 DNIP	5
625	XCA1820	SCREW BIND HD M3X10 DNIP	8
627	XCA1822	SCREW BIND HD M3X14 DNIP	2
629	8491329A	SCREW BIND HD M3X20 DNIP	1
636	8487483C	SCREW BIND HD M4X12 DNIP	4
637	8487483B	SCREW BIND HD M4X16 DNIP	6
640	8504971D	SCREW BIND HD M5X10 DNIP	1
641	8504971E	SCREW BIND HD M5X12 DNIP	1
701	8447518A	SCREW PAN HD M1.4X4 NIP	1
710	8585200B	SCREW FLAT HD M2X5 DZNP	2
716	8522813B	SCREW PAN HD M2.6X6 DNIP	4
764	XCA0302	BOLT HEX. SOCKET HD M3X8	2
774	XCA0308	BOLT HEX. SOCKET HD M4X8	4
810	XCA1690	SET SCREW M2.6X3	3
811	XCA0161	SET SCREW M3X3	2
835	8345937G	SCREW W/W,SW SEMS M2.6X5	7
841	XCA0689	SCREW W/W,SW SEMS M3X6	15
863	8497541A	BOLT HEX. SOCKET HD M3X6	1

MECHANICAL PARTS LIST (PAL 3/3)

Symbol	Part Code	Description	Q'ty
901	XCA1704	NUT M2	8
905	XCA0143	NUT M5	1
961	8651995B	SCREW P-TIGHT M2.6X6 ZNP	4
965	8651995D	SCREW P-TIGHT M3X6 ZNP	6
G01	22X0814	CCD BLOCK (PAL 16:9/4:3)	1
G01	22X0815	CCD BLOCK (PAL 4:3)	1
G02	22X0752	FRT-1 UNIT	1
G03	22E0414	FRT-2 UNIT	1
G04	22E00532	ASP-Z UNIT (PAL 16:9/4:3)	1
G04	22E00533	ASP-Z UNIT (PAL 4:3)	1
G05	22E00534	ASP-SUB UNIT	1
G06	22E0537	SG-Z UNIT (PAL 16:9/4:3)	1
G06	22E0538	SG-Z UNIT (PAL 4:3)	1
G07	22E0535	IF-Z UNIT (PAL 16:9/4:3)	1
G07	22E0536	IF-Z UNIT (PAL 4:3)	1
G08	22E0542	DSP-Z UNIT (PAL 16:9/4:3)	1
G08	22E0543	DSP-Z UNIT (PAL 4:3)	1
G09	22E0544	WIDE-Z UNIT (PAL 16:9/4:3)	1
G09	22E0545	WIDE-Z UNIT (PAL 4:3)	1
G10	22X0786	DSPSUB-Z UNIT	1
G11	22X0815	PS-Z UNIT	1
G12	22E0469	REAR-Z UNIT	1
G13	22E0541	MB-Z UNIT	1
G14	22E0539	CPU-Z UNIT (PAL 16:9/4:3)	1
G14	22E0540	CPU-Z UNIT (PAL 4:3)	1
G15	22E0474	MIC-Z UNIT	1
G16	22E0475	SW1-Z UNIT	1
G17	22E0476	SW2-Z UNIT	1
G18	22X0789	LENS UNIT	1
G19	22E0477	MIC-CN UNIT	1
G20	22X0790	BNC UNIT	1
G21	22E0478	CARD-Z UNIT	1
G22	22M0257	LEFT COVER ASSY	1
G23	22M0258	RIGHT COVER ASSY	1
G23	22M0259	RIGHT COVER ASSY [S-3000(CHINA)]	1

ASP SUB UNIT

C;NTSC 16:9/4:3 & NTSC 4:3 D;PAL 16:9/4:3 E;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
IC401	ISM0039CG	IC M62352GP		R456	RME1827CA	R,METAL 1/32W 33 KOHM +-5%	
IC402	IDT0353CA	IC,LOGIC TC7S04FU(E5)	CDE	R457	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
IC403	ILN0143CD	IC,ANALOG NJM062V		R458	RME1827CA	R,METAL 1/32W 33 KOHM +-5%	
IC404	ILN0143CD	IC,ANALOG NJM062V		R459	RME1827CA	R,METAL 1/32W 33 KOHM +-5%	
IC405	ILN0143CD	IC,ANALOG NJM062V		R460	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
IC406	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)		R461	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
IC407	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)		R462	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
IC408	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)		R463	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	
IC409	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)		R464	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	
IC410	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)		R465	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	
IC411	ILT0195CX	IC,ANALOG TL064CPWR		R466	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
IC412	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)		R467	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
Q401	HTU0032CZ	TRANSISTOR UMZ1N (Z1)		R468	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
Q402	HTX0031CZ	TRANSISTOR XP4401(5K)		R469	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
Q403	HTC0968CA	TRANSISTOR 2SC4177 (L5)		R471	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
Q404	HTD0247CZ	TRANSISTOR DTC124EUA (25)		R472	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
Q405	HTU0032CZ	TRANSISTOR UMZ1N (Z1)		R473	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R401	RME1835CA	R,METAL 1/32W 220 KOHM +-5%		R474	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R402	RME1835CA	R,METAL 1/32W 220 KOHM +-5%		R475	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R403	RME1835CA	R,METAL 1/32W 220 KOHM +-5%		C401	CSX0166CY	C,TA ELYC 16 V 10 UF+-20%	
R404	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	CDE	C402	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R405	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		C403	CSX0166CY	C,TA ELYC 16 V 10 UF+-20%	
R406	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		C404	CSX0166CY	C,TA ELYC 16 V 10 UF+-20%	
R407	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		C405	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R408	RME1828CA	R,METAL 1/32W 39 KOHM +-5%		C406	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R409	RME1827CA	R,METAL 1/32W 33 KOHM +-5%		C407	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	CDE
R410	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C408	CCG0622CA	C,CERAMIC 50 V 330 PF+-10%	
R411	RME1820CA	R,METAL 1/32W 8.2 KOHM +-5%		C409	CSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	
R412	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%		C410	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R413	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%		C411	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R414	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		C412	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R415	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		C413	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R416	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		C414	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R417	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C415	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R418	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C416	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R419	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C417	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R420	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%		C418	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R421	RMR4916CA	R,METAL 1/16W 150 OHM +-0.5%		C419	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R422	RMR4914CA	R,METAL 1/16W 180 OHM +-0.5%		C420	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R423	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C421	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R424	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C422	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R425	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C423	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R426	RME1839CA	R,METAL 1/32W 1 MOHM +-5%		C424	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R427	RME1839CA	R,METAL 1/32W 1 MOHM +-5%		C425	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R428	RME1839CA	R,METAL 1/32W 1 MOHM +-5%		C426	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R429	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5%		C427	CCG0554CA	C,CERAMIC 50 V 100 PF+-5%	C
R430	RME1835CA	R,METAL 1/32W 220 KOHM +-5%		C427	CCG0560CA	C,CERAMIC 50 V 180 PF+-5%	DE
R431	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		C428	CCG0554CA	C,CERAMIC 50 V 100 PF+-5%	C
R432	RME1835CA	R,METAL 1/32W 220 KOHM +-5%		C428	CCG0560CA	C,CERAMIC 50 V 180 PF+-5%	DE
R433	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		C429	CCG0554CA	C,CERAMIC 50 V 100 PF+-5%	C
R434	RME1835CA	R,METAL 1/32W 220 KOHM +-5%		C429	CCG0560CA	C,CERAMIC 50 V 180 PF+-5%	DE
R435	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		C430	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R436	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		C431	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R437	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		C432	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R438	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		C433	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R439	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C434	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R440	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C435	CCG9366CA	C,CERAMIC 50 V 680 PF+-5%	
R441	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C436	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R442	RME1839CA	R,METAL 1/32W 1 MOHM +-5%		C437	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R443	RME1839CA	R,METAL 1/32W 1 MOHM +-5%		C438	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R444	RME1839CA	R,METAL 1/32W 1 MOHM +-5%		C439	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R445	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%		C440	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R446	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%		C441	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
R447	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%		C442	CSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	
R448	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%		C443	GSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	
R449	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%		C444	CSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	
R450	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%		C445	GSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	
R451	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C446	CSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	
R452	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C447	GSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	
R453	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C448	CSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	
R454	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		C449	CSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	
R455	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		C450	CCG0749CA	C,CERAMIC 16 V 0.1 UF+-10%	
				C451	CSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%	

ASP SUB UNIT C;NTSC 16:9/4:3 & NTSC 4:3 D;PAL 16:9/4:3 E;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION
C452	CSM0021CA	C.TA ELYC 16 V 2.2 UF+-20%
C453	CCG0749CA	C.CERAMIC 16 V 0.1 UF+-10%
C454	CSX0166CY	C.TA ELYC 16 V 10 UF+-20%
C455	CSX0166CY	C.TA ELYC 16 V 10 UF+-20%
C456	CSX0166CY	C.TA ELYC 16 V 10 UF+-20%
C457	CCG0749CA	C.CERAMIC 16 V 0.1 UF+-10%
C458	CCG0749CA	C.CERAMIC 16 V 0.1 UF+-10%
C459	CCG0749CA	C.CERAMIC 16 V 0.1 UF+-10%
C460	CCG0749CA	C.CERAMIC 16 V 0.1 UF+-10%
C461	CSX0166CY	C.TA ELYC 16 V 10 UF+-20%
C462	CSX0166CY	C.TA ELYC 16 V 10 UF+-20%
C463	CSX0166CY	C.TA ELYC 16 V 10 UF+-20%
L401	TLL0362CA	COIL LQH3C220K04 (22UH)
L402	TLL0362CA	COIL LQH3C220K04 (22UH)
L403	TLL0362CA	COIL LQH3C220K04 (22UH)
CN401	JBX2708CJ	CONNECTOR 5-175638-0

ASP-Z UNIT

A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
IC501	IDS0764CX	IC,LOGIC SN74AHC04PWR	AC BD	Q555	HTC0947CA	TRANSISTOR 2SC4226 (R24)	D
IC502	ILN0143CD	IC,ANALOG NJM062V		Q556	HTC0969CA	TRANSISTOR 2SC4176 (B34)	
IC502	ILN0158CD	IC,ANALOG NJM4558V	Q557	HTC0947CA	TRANSISTOR 2SC4226 (R24)		
IC503	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)	Q558	HTC0947CA	TRANSISTOR 2SC4226 (R24)		
IC504	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)	Q559	HTC0969CA	TRANSISTOR 2SC4176 (B34)		
IC505	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)					
IC506	ILC0093	IC,ANALOG CXA1310AQ	D501	HDD0167CA	DIODE DCB010		
IC507	ILC0093	IC,ANALOG CXA1310AQ	D502	HDH0290CA	DIODE HSM88AS (C1)		
IC508	ILC0093	IC,ANALOG CXA1310AQ	D503	HDH0290CA	DIODE HSM88AS (C1)		
IC509	ISM0039CG	IC M62352GP	D504	HDH0290CA	DIODE HSM88AS (C1)		
IC510	ISM0039CG	IC M62352GP	D505	HDS0437HB	DIODE 1SS133		
IC511	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)					
IC512	ILT0195CX	IC,ANALOG TL064CPWR	R501	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		
IC513	ILD0114CG	IC,ANALOG DBM2120AFP	R502	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		
IC514	ILD0114CG	IC,ANALOG DBM2120AFP	R503	RME1797CA	R,METAL 1/32W 100 OHM +-5%		
IC515	ILD0114CG	IC,ANALOG DBM2120AFP	R504	RME1797CA	R,METAL 1/32W 100 OHM +-5%		
IC516	ILN0143CD	IC,ANALOG NJM062V	R505	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		
IC516	ILN0158CD	IC,ANALOG NJM4558V	R506	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		
IC517	IDT0355CA	IC,LOGIC TC7S08FU(E2)	R507	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		
Q501	HTA0387CA	TRANSISTOR 2SA1610 (Y34)	R508	RME1797CA	R,METAL 1/32W 100 OHM +-5%		
Q502	HTA0387CA	TRANSISTOR 2SA1610 (Y34)	R509	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		
Q503	HTA0387CA	TRANSISTOR 2SA1610 (Y34)	R510	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		
Q504	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R511	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		
Q505	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R513	RME1797CA	R,METAL 1/32W 100 OHM +-5%		
Q506	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R514	RME1797CA	R,METAL 1/32W 100 OHM +-5%		
Q507	HTA0387CA	TRANSISTOR 2SA1610 (Y34)	R515	RME1797CA	R,METAL 1/32W 100 OHM +-5%		
Q508	HTA0387CA	TRANSISTOR 2SA1610 (Y34)	R516	RME1797CA	R,METAL 1/32W 100 OHM +-5%		
Q509	HTA0387CA	TRANSISTOR 2SA1610 (Y34)	R517	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%		
Q510	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R518	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%		
Q511	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R519	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%		
Q512	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R520	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%		
Q513	HTC0690CA	TRANSISTOR 2SC2620B (QB)	R521	RMR4931CA	R,METAL 1/16W 68 KOHM +-0.5%		
Q514	HTC0690CA	TRANSISTOR 2SC2620B (QB)	R521	RME1834CA	R,METAL 1/32W 150 KOHM +-5%		
Q515	HTC0690CA	TRANSISTOR 2SC2620B (QB)	R521	RMR4938CA	R,METAL 1/16W 100 KOHM +-0.5%		
Q516	HTA0334CA	TRANSISTOR 2SA1226E4	R522	RME1797CA	R,METAL 1/32W 100 OHM +-5%		
Q517	HTA0334CA	TRANSISTOR 2SA1226E4	R523	RME1822CA	R,METAL 1/32W 12 KOHM +-5%		
Q518	HTA0334CA	TRANSISTOR 2SA1226E4	R524	RME1834CA	R,METAL 1/32W 150 KOHM +-5%		
Q519	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R525	RME1834CA	R,METAL 1/32W 150 KOHM +-5%		
Q520	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R526	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5%		
Q521	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R526	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		
Q522	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R527	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5%		
Q523	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R527	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		
Q524	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R528	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5%		
Q525	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R528	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		
Q526	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R529	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		
Q527	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R530	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		
Q528	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R531	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		
Q529	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R532	RME1797CA	R,METAL 1/32W 100 OHM +-5%		
Q530	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R533	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		
Q531	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R534	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		
Q532	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R535	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		
Q533	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R536	TLB0025CA	COIL BK2125HS101-B		
Q534	HTD0247CZ	TRANSISTOR DTC124EUA (25)	R536	RME1414CA	R,METAL 1/10W 10 OHM +-5%		
Q535		NOT USED	R539	RMR4908CA	R,METAL 1/16W 560 OHM +-0.5%		
Q536		NOT USED	R539	RMR4900CA	R,METAL 1/16W 1.5 KOHM +-0.5%		
Q537		NOT USED	R540	RMR4908CA	R,METAL 1/16W 560 OHM +-0.5%		
Q538		NOT USED	R540	RMR4900CA	R,METAL 1/16W 1.5 KOHM +-0.5%		
Q539		NOT USED	R541	RMR4908CA	R,METAL 1/16W 560 OHM +-0.5%		
Q540		NOT USED	R541	RMR4900CA	R,METAL 1/16W 1.5 KOHM +-0.5%		
Q541		NOT USED	R542	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		
Q542		NOT USED	R543	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		
Q543		NOT USED	R544	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		
Q544		NOT USED	R545	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		
Q545		NOT USED	R546	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		
Q546		NOT USED	R547	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		
Q547		NOT USED	R548	RME1814CA	R,METAL 1/32W 2.7 KOHM +-5%		
Q548		NOT USED	R549	RME1814CA	R,METAL 1/32W 2.7 KOHM +-5%		
Q549		NOT USED	R550	RME1814CA	R,METAL 1/32W 2.7 KOHM +-5%		
Q550		NOT USED	R551	RMR4914CA	R,METAL 1/16W 180 OHM +-0.5%		
Q551	HTC0686CA	TRANSISTOR 2SC2462C (LC)	R551	RMR4899CA	R,METAL 1/16W 330 OHM +-0.5%		
Q552	HTC0686CA	TRANSISTOR 2SC2462C (LC)	R552	RMR4923CA	R,METAL 1/16W 270 OHM +-0.5%		
Q553	HTC0686CA	TRANSISTOR 2SC2462C (LC)	R552	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5%		
Q554	HTC0969CA	TRANSISTOR 2SC4176 (B34)	R553	RMR4330CA	R,METAL 1/16W 47 OHM +-0.5%		

ASP-Z UNIT

A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
R553	RMR4935CA	R,METAL 1/16W 100 OHM +-0.5%	C	R626	RME1826CA	R,METAL 1/32W 27 KOHM +-5%	
R553	RMR4350CA	R,METAL 1/16W 68 OHM +-0.5%	D	R627	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R554	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		R628	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R555	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		R629	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R556	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		R630		NOT USED	
R557	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R631		NOT USED	
R558	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R632		NOT USED	
R559	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R633	RME1822CA	R,METAL 1/32W 12 KOHM +-5%	
R560	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%		R634	RME1822CA	R,METAL 1/32W 12 KOHM +-5%	
R561	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		R635	RME1822CA	R,METAL 1/32W 12 KOHM +-5%	
R562	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%		R636	RMR4900CA	R,METAL 1/16W 1.5 KOHM +-0.5%	
R563	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		R637	RMR4900CA	R,METAL 1/16W 1.5 KOHM +-0.5%	
R564	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%		R638	RMR4900CA	R,METAL 1/16W 1.5 KOHM +-0.5%	
R565	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		R639	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
R566	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%		R640	RMR4935CA	R,METAL 1/16W 100 OHM +-0.5%	
R567	RMR4905CA	R,METAL 1/16W 390 OHM +-0.5%		R641	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5%	
R568	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%		R642	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
R569	RMR4905CA	R,METAL 1/16W 390 OHM +-0.5%		R643	RMR4935CA	R,METAL 1/16W 100 OHM +-0.5%	
R570	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%		R644	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5%	
R571	RMR4905CA	R,METAL 1/16W 390 OHM +-0.5%		R645	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
R572	RMR4905CA	R,METAL 1/16W 390 OHM +-0.5%		R646	RMR4935CA	R,METAL 1/16W 100 OHM +-0.5%	
R573	RMR4905CA	R,METAL 1/16W 390 OHM +-0.5%		R647	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5%	
R574	RMR4905CA	R,METAL 1/16W 390 OHM +-0.5%		R648	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
R577	RME1835CA	R,METAL 1/32W 220 KOHM +-5%		R649	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
R578	RME1835CA	R,METAL 1/32W 220 KOHM +-5%		R650	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
R579	RME1836CA	R,METAL 1/32W 330 KOHM +-5%		R651	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	
R581	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R652	RME1822CA	R,METAL 1/32W 12 KOHM +-5%	
R582	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R653	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	
R583	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R654	RME1822CA	R,METAL 1/32W 12 KOHM +-5%	
R584	RME1801CA	R,METAL 1/32W 220 OHM +-5%		R655	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	
R585	RME1801CA	R,METAL 1/32W 220 OHM +-5%		R656	RME1822CA	R,METAL 1/32W 12 KOHM +-5%	
R586	RME1801CA	R,METAL 1/32W 220 OHM +-5%		R657	RME1826CA	R,METAL 1/32W 27 KOHM +-5%	
R587	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R658	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R588	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R659	RME1826CA	R,METAL 1/32W 27 KOHM +-5%	
R589	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R660	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R590	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R661	RME1826CA	R,METAL 1/32W 27 KOHM +-5%	
R591	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R662	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R592	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R663	RME1829CA	R,METAL 1/32W 47 KOHM +-5%	
R593	RME1797CA	R,METAL 1/32W 100 OHM +-5%		R664	RME1829CA	R,METAL 1/32W 47 KOHM +-5%	
R594	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R665	RME1829CA	R,METAL 1/32W 47 KOHM +-5%	
R595	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R666	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R596	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R667	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R597	RME1822CA	R,METAL 1/32W 12 KOHM +-5%		R668	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R598	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R669	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R599	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R670	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	
R600	RME1803CA	R,METAL 1/32W 330 OHM +-5%	ABC	R671	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R601	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	D	R672	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	
R602	RME1803CA	R,METAL 1/32W 330 OHM +-5%	ABC	R673	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	
R603	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	D	R674	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R604	RME1803CA	R,METAL 1/32W 330 OHM +-5%	ABC	R675	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	
R605	RME1835CA	R,METAL 1/32W 220 KOHM +-5%	D	R676	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	
R605	RME1999CA	R,METAL 1/32W 120 KOHM +-5%	ABC	R677	CCG0570CA	C,CERAMIC 50 V 3 PF+-0.25PF	AB
R606	RME1835CA	R,METAL 1/32W 220 KOHM +-5%	D	R678	CCG0570CA	C,CERAMIC 50 V 3 PF+-0.25PF	AB
R606	RME1999CA	R,METAL 1/32W 120 KOHM +-5%	ABC	R679	CCG0570CA	C,CERAMIC 50 V 3 PF+-0.25PF	AB
R607	RME1835CA	R,METAL 1/32W 220 KOHM +-5%	D	R680	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	
R607	RME1999CA	R,METAL 1/32W 120 KOHM +-5%	ABC	R681	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%	
R608	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		R682	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%	
R609	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		R683	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R610	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		R684	RMR4869CA	R,METAL 1/16W 39 KOHM +-0.5%	
R611	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%		R685	RMR4869CA	R,METAL 1/16W 39 KOHM +-0.5%	
R612	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%		R686	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R613	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%		R687	RMR4869CA	R,METAL 1/16W 39 KOHM +-0.5%	
R614	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R688	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R615	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R689	RME1822CA	R,METAL 1/32W 12 KOHM +-5%	
R616	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R690	RMR4927CA	R,METAL 1/16W 12 KOHM +-0.5%	
R617	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R691	RMR4915CA	R,METAL 1/16W 220 OHM +-0.5%	
R618	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R692	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
R619	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R693		NOT USED	
R620	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R694	RMR4912CA	R,METAL 1/16W 47 KOHM +-0.5%	
R621	RME1823CA	R,METAL 1/32W 15 KOHM +-5%		R695	RMR4914CA	R,METAL 1/16W 180 OHM +-0.5%	
R622	RME1826CA	R,METAL 1/32W 27 KOHM +-5%		R696	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%	
R623	RME1823CA	R,METAL 1/32W 15 KOHM +-5%		R697	RMR4901CA	R,METAL 1/16W 22 KOHM +-0.5%	
R624	RME1826CA	R,METAL 1/32W 27 KOHM +-5%		R698	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5%	
R625	RME1823CA	R,METAL 1/32W 15 KOHM +-5%		R699	RMR4930CA	R,METAL 1/16W 6.8 KOHM +-0.5%	

ASP-Z UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION		
R700	RME1784CA	R,METAL	1/32W 0 OHM +-5%	R774	RME1797CA	R,METAL	1/32W 100 OHM +-5%	
R701	RME1784CA	R,METAL	1/32W 0 OHM +-5%	R775	RME1793CA	R,METAL	1/32W 47 OHM +-5%	
R702	RME1784CA	R,METAL	1/32W 0 OHM +-5%	R776	RME1793CA	R,METAL	1/32W 47 OHM +-5%	
R703		NOT USED		R777	RME1793CA	R,METAL	1/32W 47 OHM +-5%	
R704		NOT USED		R778	RME1793CA	R,METAL	1/32W 47 OHM +-5%	
R705		NOT USED		R779	RME1793CA	R,METAL	1/32W 47 OHM +-5%	
R706		NOT USED		R780	RME1793CA	R,METAL	1/32W 47 OHM +-5%	
R707		NOT USED		R781	RME1793CA	R,METAL	1/32W 47 OHM +-5%	
R708		NOT USED		R782	RME1817CA	R,METAL	1/32W 4.7 KOHM +-5%	AB
R709		NOT USED		R782	RME1818CA	R,METAL	1/32W 5.6 KOHM +-5%	FCD
R710		NOT USED		R783	RME1817CA	R,METAL	1/32W 4.7 KOHM +-5%	AB
R711		NOT USED		R783	RME1818CA	R,METAL	1/32W 5.6 KOHM +-5%	FCD
R712		NOT USED		R784	RME1817CA	R,METAL	1/32W 4.7 KOHM +-5%	AB
R713		NOT USED		R784	RME1818CA	R,METAL	1/32W 5.6 KOHM +-5%	FCD
R714		NOT USED		R785	RME1834CA	R,METAL	1/32W 150 KOHM +-5%	D
R715		NOT USED		R786	RME1084HB	R,METAL	1/4W 10 KOHM +-1%	
R716		NOT USED		R787	RME1084HB	R,METAL	1/4W 10 KOHM +-1%	
R717		NOT USED		R788	RME1084HB	R,METAL	1/4W 10 KOHM +-1%	
R718		NOT USED		R791	RME1797CA	R,METAL	1/32W 100 OHM +-5%	
R719		NOT USED		R792	RME1797CA	R,METAL	1/32W 100 OHM +-5%	
R720		NOT USED		R793	RME1797CA	R,METAL	1/32W 100 OHM +-5%	
R721		NOT USED		R794	RME1414CA	R,METAL	1/10W 10 OHM +-5%	RCD
R722		NOT USED		RV501	RNE0113CD	VR,METAL	EVM-7JGA00B23 (2K)	
R723		NOT USED		RV502	RNE0113CD	VR,METAL	EVM-7JGA00B23 (2K)	
R724		NOT USED		RV503	RNE0113CD	VR,METAL	EVM-7JGA00B23 (2K)	
R725		NOT USED						
R726		NOT USED						
R727		NOT USED		C503	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R728		NOT USED		C504	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%	
R729		NOT USED		C505	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R730		NOT USED		C506	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%	
R731		NOT USED		C507	CCG0553CA	C,CERAMIC	50 V 10 PF+-0.5PF	
R732		NOT USED		C508	CCG0569CA	C,CERAMIC	50 V 82 PF+-5%	
R733		NOT USED		C509	CCG0562CA	C,CERAMIC	50 V 220 PF+-5%	AB
R734		NOT USED		C509	CCG0567CA	C,CERAMIC	50 V 56 PF+-5%	CD
R735		NOT USED		C510	CCG0567CA	C,CERAMIC	50 V 56 PF+-5%	
R736		NOT USED		C511	CCG0567CA	C,CERAMIC	50 V 56 PF+-5%	
R737		NOT USED		C512	CCG0554CA	C,CERAMIC	50 V 100 PF+-5%	
R738		NOT USED		C513	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R739		NOT USED		C514	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R740		NOT USED		C515	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R741		NOT USED		C516	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R742		NOT USED		C517	CEL0176	C,AL ELYC	10 V 680 UF+-20%	
R743		NOT USED		C520	CCG0549CA	C,CERAMIC	50 V 6 PF+-0.5PF	
R744		NOT USED		C521		NOT USED		
R745		NOT USED		C521	CCG0551CA	C,CERAMIC	50 V 8 PF+-0.5PF	C
R746		NOT USED		C521	CCG0547CA	C,CERAMIC	50 V 4 PF+-0.25PF	D
R747		NOT USED		C522	CCG0549CA	C,CERAMIC	50 V 6 PF+-0.5PF	
R748		NOT USED		C523		NOT USED		
R749		NOT USED		C523	CCG0551CA	C,CERAMIC	50 V 8 PF+-0.5PF	C
R750		NOT USED		C523	CCG0547CA	C,CERAMIC	50 V 4 PF+-0.25PF	D
R751		NOT USED		C524	CCG0549CA	C,CERAMIC	50 V 6 PF+-0.5PF	
R752		NOT USED		C525		NOT USED		
R753		NOT USED		C525	CCG0551CA	C,CERAMIC	50 V 8 PF+-0.5PF	C
R754	RME1817CA	R,METAL	1/32W 4.7 KOHM +-5%	C525	CCG0547CA	C,CERAMIC	50 V 4 PF+-0.25PF	D
R755	RME1817CA	R,METAL	1/32W 4.7 KOHM +-5%	C526	CCG0557CA	C,CERAMIC	50 V 15 PF+-5%	
R756	RME1817CA	R,METAL	1/32W 4.7 KOHM +-5%	C527	CCG0557CA	C,CERAMIC	50 V 15 PF+-5%	
R757	RMR4909CA	R,METAL	1/16W 1 KOHM +-0.5%	C528	CCG0557CA	C,CERAMIC	50 V 15 PF+-5%	
R758	RMR4909CA	R,METAL	1/16W 1 KOHM +-0.5%	C532	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%	
R759	RMR4909CA	R,METAL	1/16W 1 KOHM +-0.5%	C533	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%	
R760	RMR4924CA	R,METAL	1/16W 2.7 KOHM +-0.5%	C534	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	
R761	RMR4924CA	R,METAL	1/16W 2.7 KOHM +-0.5%	C535	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	
R762	RMR4924CA	R,METAL	1/16W 2.7 KOHM +-0.5%	C536	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	
R763	RME1825CA	R,METAL	1/32W 22 KOHM +-5%	C537	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	
R764	RME1825CA	R,METAL	1/32W 22 KOHM +-5%	C538	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	
R765	RME1825CA	R,METAL	1/32W 22 KOHM +-5%	C539	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	
R766	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C540	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R767	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C541	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R768	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C542	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R769	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C543	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R770	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C544	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R771	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C545	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R772	RME1413CA	R,METAL	1/10W 0 OHM	C546	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	
R773	RME1413CA	R,METAL	1/10W 0 OHM	C547	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	

ASP-Z UNIT

A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION		
C548	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	C624	CCG0548CA	C,CERAMIC	50 V 5 PF+-0.25PF	
C549	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	C625	CCG0548CA	C,CERAMIC	50 V 5 PF+-0.25PF	
C550	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	C626	CCG0548CA	C,CERAMIC	50 V 5 PF+-0.25PF	
C551	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	C627		NOT USED		
C552	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	C628		NOT USED		
C553	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	C629		NOT USED		
C557	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	C630	CCG0558CA	C,CERAMIC	50 V 150 PF+-5%	D
C558	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	C631	CCG0553CA	C,CERAMIC	50 V 10 PF+-0.5PF	A
C559	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	C631	CCG0561CA	C,CERAMIC	50 V 22 PF+-5%	C
C560	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	C631	CCG0551CA	C,CERAMIC	50 V 8 PF+-0.5PF	D
C561	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%	C632	CCG0553CA	C,CERAMIC	50 V 10 PF+-0.5PF	A
C562	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	C632	CCG0561CA	C,CERAMIC	50 V 22 PF+-5%	C
C563	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	C632	CCG0551CA	C,CERAMIC	50 V 8 PF+-0.5PF	D
C564	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	C633	CCG0553CA	C,CERAMIC	50 V 10 PF+-0.5PF	A
C565	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	C633	CCG0561CA	C,CERAMIC	50 V 22 PF+-5%	C
C566	CCG0574CA	C,CERAMIC	50 V 1000 PF+-10%	C633	CCG0551CA	C,CERAMIC	50 V 8 PF+-0.5PF	D
C567	CCG0574CA	C,CERAMIC	50 V 1000 PF+-10%	C634	CEL0166	C,AL ELYC	10 V 680 UF+-20%	BD
C568	CCG0574CA	C,CERAMIC	50 V 1000 PF+-10%					
C569	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	L501	TLL0361CA	COIL	LQH3C100K04 (10UH)	
C570	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	L502	TLL0361CA	COIL	LQH3C100K04 (10UH)	
C571	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	L503	TLL0361CA	COIL	LQH3C100K04 (10UH)	
C572	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	L504	TLL0361CA	COIL	LQH3C100K04 (10UH)	
C573	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	L505	TLL0361CA	COIL	LQH3C100K04 (10UH)	
C574	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	L506	TLN0086CA	COIL	125 MA 22 UH+-5%	
C575	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	L507	TLN0086CA	COIL	125 MA 22 UH+-5%	
C576	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	L508	TLN0086CA	COIL	125 MA 22 UH+-5%	
C577	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	L512		NOT USED		
C578	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	L513		NOT USED		
C579	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	L514		NOT USED		
C580	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	FL501	AFT0014CG	FIL	TH355LSK-8718	A
C581	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	FL502	AFT0014CG	FIL	TH355LSK-8718	A
C582	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	FL503	AFT0014CG	FIL	TH355LSK-8718	A
C583	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	FL504	AFH0025CD	FIL	H353TCH-8743	A
C584	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	FL505	AFH0025CD	FIL	H353TCH-8743	A
C585	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	FL506	AFH0025CD	FIL	H353TCH-8743	A
C586	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	L515	TLN0006CA	COIL	220 MA 4.7 UH+-5%	
C587	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	L516	TLN0006CA	COIL	220 MA 4.7 UH+-5%	
C588	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	L517	TLN0006CA	COIL	220 MA 4.7 UH+-5%	
C589	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%					
C590	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	CN501	JBX2710	CONNECTOR	5-175643-0	
C591	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	CN502	JBX2823MA	CONNECTOR	32FLZ-SM1-R	
C592	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	CN503	JBD0174	CONNECTOR	DF13A-6P-1.25H(20)	
C593	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	FL501	AFL0098CG	FIL	LY-0001 (14.3MHZ LPF)	C
C594	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	FL501	AFT0016CG	FIL	TH355LSK-8893	BD
C595	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	FL502	AFL0098CG	FIL	LY-0001 (14.3MHZ LPF)	C
C596	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	FL502	AFT0016CG	FIL	TH355LSK-8893	BD
C597	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%	FL503	AFL0098CG	FIL	LY-0001 (14.3MHZ LPF)	C
C598		NOT USED		FL503	AFT0016CG	FIL	TH355LSK-8893	BD
C599		NOT USED		FL504	AFL0112CD	FIL	LC-0444 7.16M TRAP	C
C600		NOT USED		FL504	AFA0024CD	FIL	A353TCH-8894	BD
C601		NOT USED		FL505	AFL0112CD	FIL	LC-0444 7.16M TRAP	C
C602		NOT USED		FL505	AFA0024CD	FIL	A353TCH-8894	BD
C603		NOT USED		FL506	AFL0112CD	FIL	LC-0444 7.16M TRAP	C
C604		NOT USED		FL506	AFA0024CD	FIL	A353TCH-8894	BD
C605		NOT USED						
C606		NOT USED						
C607		NOT USED						
C608		NOT USED						
C609		NOT USED						
C610		NOT USED						
C611		NOT USED						
C612		NOT USED						
C613	CEL0183	C,AL ELYC	10 V 330 UF+-20%					
C613	CEL0166	C,AL ELYC	10 V 680 UF+-20%					
C614	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%					
C615	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%					
C616	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%					
C617	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%					
C618	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%					
C619	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%					
C620	CCG0749CA	C,CERAMIC	16 V 0.1 UF+-10%					
C621	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%					
C622	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%					
C623	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%					

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SYMBOL	PART CODE	DESCRIPTION	SYMBOL	PART CODE	DESCRIPTION
IC1	IZS0129CY	IC S-3511AEFS	D11	HDD0168CA	DIODE DCC010
IC2	IDT0381CD	IC.LOGIC TC7W04FU	D12	HDD0168CA	DIODE DCC010
IC3	IDT0400CD	IC.LOGIC TC7W32FU	D13	HDD0168CA	DIODE DCC010
IC4	IDS0764CX	IC.LOGIC SN74AHC04PWR	D14	HDD0168CA	DIODE DCC010
IC5	IDS0777CX	IC.LOGIC SN74AHC245PWR	D15	HDD0168CA	DIODE DCC010
IC6	IDS0769CX	IC.LOGIC SN74AHC541PWR	D16	HDD0168CA	DIODE DCC010
IC7	IDS0769CX	IC.LOGIC SN74AHC541PWR	D17	HDD0168CA	DIODE DCC010
IC8	IDT0403CX	IC.LOGIC TC74HC4053AFT(EL)	D18	HDD0168CA	DIODE DCC010
IC9	IDT0470CD	IC.LOGIC TC7W34FU	D19	HDD0159CA	DIODE DCA010
IC10	ILN0048MA	IC.ANALOG NJM311M	D20	HDD0159CA	DIODE DCA010
IC11	ILM0631CZ	IC.ANALOG MN1382-R	D21	HDD0159CA	DIODE DCA010
IC12	ISM0055CJ	IC UPD6453GT-101	D22	HDD0159CA	DIODE DCA010
IC13	INA0043CY	IC AT93C66-10SC	D23	HDD0159CA	DIODE DCA010
IC14	INH0162	IC HM62256BLTM-8	D24	HDD0159CA	DIODE DCA010
IC15	INM0093	IC MBM29F040C-90PFTN	D25	HDD0159CA	DIODE DCA010
IC16	IMH0097TA	IC HD6413002F	D26	HDD0159CA	DIODE DCA010
IC17	ILL0123CY	IC LMC662CM	D27	HDD0159CA	DIODE DCA010
IC18	IDH1214MA	IC.LOGIC HD14052BFP/MC14052BF	D28	HDD0159CA	DIODE DCA010
IC19	ILN0143CD	IC.ANALOG NJM062V	D29	HDD0159CA	DIODE DCA010
IC20	ILB0052MA	IC.ANALOG BA6138F	D30	HDD0159CA	DIODE DCA010
IC21	IDS0766CX	IC.LOGIC SN74AHC32PWR	D31	HDD0159CA	DIODE DCA010
IC22	IDS0769CX	IC.LOGIC SN74AHC541PWR	D32	HDD0159CA	DIODE DCA010
IC23	IDS0770CX	IC.LOGIC SN74AHC574PWR	D33	HDD0159CA	DIODE DCA010
IC24	IDS0770CX	IC.LOGIC SN74AHC574PWR	D34	HDD0159CA	DIODE DCA010
IC25	IDH1304MA	IC.LOGIC HD74HC138FP	D35	HDD0159CA	DIODE DCA010
IC26	ILD0119CG	IC.ANALOG DBM2123AFP	D36	HDD0159CA	DIODE DCA010
IC27	IDS0770CX	IC.LOGIC SN74AHC574PWR	D37	HDD0159CA	DIODE DCA010
IC28	IDT0402CD	IC.LOGIC TC4W53FU	D38	HDD0159CA	DIODE DCA010
IC29	ILN0143CD	IC.ANALOG NJM062V	D39	HLG0009	LED GL3ED8
IC30	IDT0354CA	IC.LOGIC TC7S32FU(E4)	D40	HDD0159CA	DIODE DCA010
Q1	HTC0686CA	TRANSISTOR 2SC2462C (LC)	D41	HDD0159CA	DIODE DCA010
Q2	HTC0686CA	TRANSISTOR 2SC2462C (LC)	D42	HLT0004	LED TLG124A (GRN)
Q3	HTU0029CZ	TRANSISTOR UMD2N	D43	HLT0004	LED TLG124A (GRN)
Q4	HTD0160CZ	TRANSISTOR DTA124EKA	D44	HLT0004	LED TLG124A (GRN)
Q5	HTI0010CA	TRANSISTOR IMH1A	D45	HLT0004	LED TLG124A (GRN)
Q6	HTD0247CZ	TRANSISTOR DTC124EUA (25)	D46	HDD0159CA	DIODE DCA010
Q7	HTC0686CA	TRANSISTOR 2SC2462C (LC)	D47	HDD0159CA	DIODE DCA010
Q8	HTA0268CA	TRANSISTOR 2SA1122C (CC)	D48	HDD0159CA	DIODE DCA010
Q9	HTI0019CA	TRANSISTOR IMB1A	R1	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q10	HTI0019CA	TRANSISTOR IMB1A	R2	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q11	HTI0019CA	TRANSISTOR IMB1A	R3	RME1821CA	R.METAL 1/32W 10 KOHM +-5%
Q12	HTI0019CA	TRANSISTOR IMB1A	R4	RME1821CA	R.METAL 1/32W 10 KOHM +-5%
Q13	HTI0019CA	TRANSISTOR IMB1A	R5	RME1413CA	R.METAL 1/10W 0 OHM
Q14	HTI0019CA	TRANSISTOR IMB1A	R6	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q15	HTI0019CA	TRANSISTOR IMB1A	R7	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q16	HTI0019CA	TRANSISTOR IMB1A	R8	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q17	HTI0019CA	TRANSISTOR IMB1A	R9	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q18	HTI0010CA	TRANSISTOR IMH1A	R10	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q19	HTI0019CA	TRANSISTOR IMB1A	R11	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q20	HTI0019CA	TRANSISTOR IMB1A	R12	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q21	HTI0019CA	TRANSISTOR IMB1A	R13	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q22	HTD0160CZ	TRANSISTOR DTA124EKA	R14	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q23	HTC0686CA	TRANSISTOR 2SC2462C (LC)	R15	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q24	HTI0019CA	TRANSISTOR IMB1A	R16	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q25	HTI0019CA	TRANSISTOR IMB1A	R17	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q26	HTI0019CA	TRANSISTOR IMB1A	R18	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q27	HTI0019CA	TRANSISTOR IMB1A	R19	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q28	HTI0019CA	TRANSISTOR IMB1A	R20	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q29	HTD0247CZ	TRANSISTOR DTC124EUA (25)	R21	RME1797CA	R.METAL 1/32W 100 OHM +-5%
Q30	HTC0686CA	TRANSISTOR 2SC2462C (LC)	R22	RME1797CA	R.METAL 1/32W 100 OHM +-5%
D1	HDD0169CA	DIODE DCC010	R23	RME1797CA	R.METAL 1/32W 100 OHM +-5%
D2	HDD0168CA	DIODE DCC010	R24	RME1797CA	R.METAL 1/32W 100 OHM +-5%
D3	HDD0168CA	DIODE DCC010	R25	RME1797CA	R.METAL 1/32W 100 OHM +-5%
D4	HDD0168CA	DIODE DCC010	R26	RME1797CA	R.METAL 1/32W 100 OHM +-5%
D5	HDD0167CA	DIODE DCB010	R27	RME1821CA	R.METAL 1/32W 10 KOHM +-5%
D6	HDD0159CA	DIODE DCA010	R28	RME1821CA	R.METAL 1/32W 10 KOHM +-5%
D7	HDD0169CA	DIODE DWA010	R29	RME1821CA	R.METAL 1/32W 10 KOHM +-5%
D8	HDD0168CA	DIODE DCC010	R30	RME1801CA	R.METAL 1/32W 220 OHM +-5%
D9	HDD0168CA	DIODE DCC010	R31	RME1821CA	R.METAL 1/32W 10 KOHM +-5%
D10	HDD0168CA	DIODE DCC010	R32	RME1821CA	R.METAL 1/32W 10 KOHM +-5%
			R33	RME1821CA	R.METAL 1/32W 10 KOHM +-5%
			R34	RME1837CA	R.METAL 1/32W 470 KOHM +-5%

CPU-Z UNIT

A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
R35	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R109	RME1803CA	R,METAL 1/32W 330 OHM +-5%	
R36	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R110	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R37	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R111	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R38	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R112	RME1803CA	R,METAL 1/32W 330 OHM +-5%	
R39	RME1827CA	R,METAL 1/32W 33 KOHM +-5%		R113	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R40	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%		R114	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R41	RMR4888CA	R,METAL 1/16W 3.3 KOHM +-0.5%		R115	RME1413CA	R,METAL 1/10W 0 OHM	
R42	RMR4911CA	R,METAL 1/16W 3.9 KOHM +-0.5%		R116	RME1413CA	R,METAL 1/10W 0 OHM	ABC
R43	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R117	RME1413CA	R,METAL 1/10W 0 OHM	ABC
R44	RME1836CA	R,METAL 1/32W 330 KOHM +-5%		R118	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R45	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%		R119	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R46	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		R120	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R47	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R121	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R48	RME1827CA	R,METAL 1/32W 33 KOHM +-5%		R122	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R49	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R123	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R50	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R124	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R51	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		R125	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R52	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R126	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R53	RME1442CA	R,METAL 1/10W 2.2 KOHM +-5%		R127	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R54		NOT USED		R128	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R55	RME1442CA	R,METAL 1/10W 2.2 KOHM +-5%		R129	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R56	RMR4891CA	R,METAL 1/16W 8.2 KOHM +-0.5%		R130	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R57	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%		R131	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R58	RME1827CA	R,METAL 1/32W 33 KOHM +-5%		R132	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R59	RMR4131CA	R,METAL 1/10W 30.1 KOHM +-1%		R133	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R60	RMR4899CA	R,METAL 1/16W 330 OHM +-0.5%		R134	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R61	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R135	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R62	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		R136	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R63	RMR4888CA	R,METAL 1/16W 3.3 KOHM +-0.5%		R137	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R64	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%		R138	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R65	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		R139	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R66	RMR4892CA	R,METAL 1/16W 15 KOHM +-0.5%		R140	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R67	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		R141	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R68	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R142	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R69	RMR4131CA	R,METAL 1/10W 30.1 KOHM +-1%		R143	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R70	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%		R144	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R71	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%		R145	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R72	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R146	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R73	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R147	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R74	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R148	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R75	RME1805CA	R,METAL 1/32W 470 OHM +-5%		R149	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R76	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R150	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R77	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R151	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R78	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		R152	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R79	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R153		NOT USED	
R80	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R154	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R81	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R155	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R82	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R156	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R83	RME1836CA	R,METAL 1/32W 330 KOHM +-5%		R157	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R84	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R158	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R85	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R159	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R86	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R160	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R87	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R161	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R88	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R162	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R89	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R163	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R90	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R164	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R91	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R165	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R92	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R166	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R93	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R167	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R94	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R168	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R95	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R169	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R96	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R170	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R97	RME1413CA	R,METAL 1/10W 0 OHM		R171	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R98	RME1413CA	R,METAL 1/10W 0 OHM		R172	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R99	RME1413CA	R,METAL 1/10W 0 OHM		R173	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R100	RME1413CA	R,METAL 1/10W 0 OHM		R174	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R101	RME1413CA	R,METAL 1/10W 0 OHM	ABC	R175	RME1828CA	R,METAL 1/32W 39 KOHM +-5%	
R102	RME1825CA	R,METAL 1/32W 22 KOHM +-5%		R176	RME1827CA	R,METAL 1/32W 33 KOHM +-5%	
R103	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%		R177	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
R104	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%		R178	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
R105		NOT USED		R179	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
R106	RME1803CA	R,METAL 1/32W 330 OHM +-5%		R180		NOT USED	
R107	RME1803CA	R,METAL 1/32W 330 OHM +-5%		R181		NOT USED	
R108	RME1797CA	R,METAL 1/32W 100 OHM +-5%		R182		NOT USED	

CPU-Z UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
R183	RME1809CA	R,METAL	1/32W 1 KOHM +-5%	C46	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R184	RME1823CA	R,METAL	1/32W 15 KOHM +-5%	C47	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R185	RME1827CA	R,METAL	1/32W 33 KOHM +-5%	C48	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R186	RME1809CA	R,METAL	1/32W 1 KOHM +-5%	C49	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R187		NOT USED		C50		NOT USED	
R188	RME1784CA	R,METAL	1/32W 0 OHM +-5%	C51	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R189	RME1784CA	R,METAL	1/32W 0 OHM +-5%	C52	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R190	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C53	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R191	RME1817CA	R,METAL	1/32W 4.7 KOHM +-5%	C54	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R192	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C55	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R193		NOT USED		C56	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R194	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C57	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R195	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C58	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R196	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C59	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
R197	RME1821CA	R,METAL	1/32W 10 KOHM +-5%	C60	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ1	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101	C61	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ19	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101	C62	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ20	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101	C63	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ21	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101	C64	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ22	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101	C65	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ23	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101	C66	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ24	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101	C67	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ25	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101	C68	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ32	RZA0397CA	R,BLOCK	MNR14-E0AB-J-103	C69	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ33	RZA0397CA	R,BLOCK	MNR14-E0AB-J-103	C70	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
RZ7	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101	C71	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%
C1	CCG0570CA	C,CERAMIC	50 V 3 PF+-0.25PF	C72	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%
C2	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C73	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C3	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%	C74	CSX0179CD	C,TA ELYC	20 V 10 UF+-20%
C4	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C75	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%
C5	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C76	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C6	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C77	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C7	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C78	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C8	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C79	CCG9532CA	C,CERAMIC	25 V 0.1 UF+-10%
C9	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C80	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C10	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C81	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%
C11	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C82	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C12	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%	C83	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C13	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C84	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C14	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C85	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C15	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C86	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C16	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C87	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%
C17	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%	C88	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C18	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C89	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C19	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C90	CSS0176CA	C,TA ELYC	35 V 1 UF+-20%
C20	CCG9266CA	C,CERAMIC	50 V 30 PF+-5%	C91	CCG0569CA	C,CERAMIC	50 V 82 PF+-5%
C21	CCG0549CA	C,CERAMIC	50 V 6 PF+-0.5PF	C92	CSS0148CA	C,TA ELYC	35 V 0.1 UF+-20%
C22	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C93	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C23	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C94	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C24	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C95	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C25	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C96	CSS0176CA	C,TA ELYC	35 V 1 UF+-20%
C26	CSX0164CD	C,TA ELYC	16 V 22 UF+-20%	C97	CSS0148CA	C,TA ELYC	35 V 0.1 UF+-20%
C27	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C98	CCG0569CA	C,CERAMIC	50 V 82 PF+-5%
C28	CCG0561CA	C,CERAMIC	50 V 22 PF+-5%	C99	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C29	CCG0561CA	C,CERAMIC	50 V 22 PF+-5%	C100	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C30	CCG9532CA	C,CERAMIC	25 V 0.1 UF+-10%	C101	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C31	CCG9532CA	C,CERAMIC	25 V 0.1 UF+-10%	C102	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C32	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C103	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C33	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C104	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C34	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	C105	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C35	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%	C106	CCC1027VA	C,CERAMIC	50 V 220 PF+-10%
C36	CSM0022CA	C,TA ELYC	16 V 4.7 UF+-20%	C107	CCC1027VA	C,CERAMIC	50 V 220 PF+-10%
C37		NOT USED		CV1	CVT0070CD	C,VARIABLE	TZBX4R200BA110T00
C38	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%	L1	TLL0362CA	COIL	LQH3C220K04 (22UH)
C39	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%	L2	TLM0103CA	COIL	5 MA 39 UH+-10%
C40	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%	L3	TLL0362CA	COIL	LQH3C220K04 (22UH)
C41		NOT USED		L4	TLL0362CA	COIL	LQH3C220K04 (22UH)
C42		NOT USED		L5	TLL0362CA	COIL	LQH3C220K04 (22UH)
C43		NOT USED		L6	TLL0362CA	COIL	LQH3C220K04 (22UH)
C44	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%	X1	AAS0022CX	XTAL	SPT2A32-768K20-00-6
C45	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%	X2	ACC0017CD	CERA OSC	CSACS12.0MT

CPU-Z UNIT

A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION	
SW1	SSV0350CW	SW,SLIDE	CMS-2202A
SW2	SSV0350CW	SW,SLIDE	CMS-2202A
SW3	SSV0350CW	SW,SLIDE	CMS-2202A
SW4	SSV0289CJ	SW,SLIDE	SSSS8-22A-0
SW5	SSP1067CD	SW,PB	SKHMPW
SW6	SSP1067CD	SW,PB	SKHMPW
SW7	SSP1067CD	SW,PB	SKHMPW
SW8	SSP1067CD	SW,PB	SKHMPW
SW9	SSP1067CD	SW,PB	SKHMPW
SW10	SSP1067CD	SW,PB	SKHMPW
SW11	SSP1067CD	SW,PB	SKHMPW
SW12	SSP1067CD	SW,PB	SKHMPW
SW13	SSP1067CD	SW,PB	SKHMPW
SW14	SSP1067CD	SW,PB	SKHMPW
SW15	SSV0289CJ	SW,SLIDE	SSSS8-22A-0
TP1	ETS0174CA	CHECK,CHIP	EYF6C(2125)/RCT000000
TP2	ETS0174CA	CHECK,CHIP	EYF6C(2125)/RCT000000
TP3	ETS0174CA	CHECK,CHIP	EYF6C(2125)/RCT000000
TP4	ETS0174CA	CHECK,CHIP	EYF6C(2125)/RCT000000
B1	EBY0021	HOLDER	BCR20H4
BS11	EBZ0030	BATTERY	CR2032
CN1	JBX2818MA	CONNECTOR	26FLZ-SM1
CN2	JBF0104MA	CONNECTOR	FH12-33S-0.5SH
CN3	JBD0178	CONNECTOR	DF13A-15P-1.25H(20)
CN4	JBD0177	CONNECTOR	DF13A-12P-1.25H(20)
CN5	JBF0094	CONNECTOR	FX6-80S-0.8SV2
	HYL0009	SPACER,LED	LH-5-4 (H=4MM)
	HYL0011	SPACER	LH-5-2 (H=2MM)

DSP-SUB UNIT ALL MODEL

SYMBOL	PART CODE	DESCRIPTION	SYMBOL	PART CODE	DESCRIPTION
IC101	ISH0049TA	IC HDL4F23AFR901	RZ105	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
IC102	INM0105CX	IC M66280FP	RZ106	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
IC103	INM0105CX	IC M66280FP	RZ107	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
IC104	INM0105CX	IC M66280FP	RZ108	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
IC105	INM0105CX	IC M66280FP	RZ109	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
IC106	INM0105CX	IC M66280FP	RZ110	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
IC107	INM0105CX	IC M66280FP	RZ111	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
IC108	INM0105CX	IC M66280FP	RZ112	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
IC109	INM0105CX	IC M66280FP	RZ113	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
IC110	INM0105CX	IC M66280FP	RZ114	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
IC111	INM0105CX	IC M66280FP	RZ115	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
IC112	IDT0401CD	IC,LOGIC TC7WU04FU	RZ116	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
IC113	IDT0401CD	IC,LOGIC TC7WU04FU	RZ117	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
IC114	IDS0764CX	IC,LOGIC SN74AHC04PWR	RZ118	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
Q101	HTA0386CA	TRANSISTOR 2SA1611 (M5)	RZ119	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
Q102	HTA0386CA	TRANSISTOR 2SA1611 (M5)	RZ120	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R101	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	RZ121	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R102	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	RZ122	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R103	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	RZ123	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R104	RME1797CA	R,METAL 1/32W 100 OHM +-5%	RZ124	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R105	RME1797CA	R,METAL 1/32W 100 OHM +-5%	RZ125	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R106	RME1797CA	R,METAL 1/32W 100 OHM +-5%	RZ126	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R107	RME1797CA	R,METAL 1/32W 100 OHM +-5%	RZ127	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R108	RME1797CA	R,METAL 1/32W 100 OHM +-5%	RZ128	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R109	RME1797CA	R,METAL 1/32W 100 OHM +-5%	RZ129	RZA0415CA	R,BLOCK MNR14-E0AB-J-470
R110	RME1797CA	R,METAL 1/32W 100 OHM +-5%	RZ130	RZA0417CA	R,BLOCK MNR14-E0AB-J-104
R111	RME1797CA	R,METAL 1/32W 100 OHM +-5%	J101	RME0912CA	R,METAL 1/8W 0 OHM
R112	RME1797CA	R,METAL 1/32W 100 OHM +-5%	J102	RME0912CA	R,METAL 1/8W 0 OHM
R113	RME1797CA	R,METAL 1/32W 100 OHM +-5%	J103	RME0912CA	R,METAL 1/8W 0 OHM
R114	RME1797CA	R,METAL 1/32W 100 OHM +-5%	J104	RME0912CA	R,METAL 1/8W 0 OHM
R115	RME1797CA	R,METAL 1/32W 100 OHM +-5%	J105	RME0912CA	R,METAL 1/8W 0 OHM
R116	RME1797CA	R,METAL 1/32W 100 OHM +-5%	J106	RME0912CA	R,METAL 1/8W 0 OHM
R117	RME1797CA	R,METAL 1/32W 100 OHM +-5%	J107		NOT USED
R118	RME1797CA	R,METAL 1/32W 100 OHM +-5%	J108	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R119	RME1797CA	R,METAL 1/32W 100 OHM +-5%	J109	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R120	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C101	CSX0162CD	C,TA ELYC 10 V 15 UF+-20%
R121	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C102	CSX0162CD	C,TA ELYC 10 V 15 UF+-20%
R122	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C103	CSX0162CD	C,TA ELYC 10 V 15 UF+-20%
R123	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C104	CSX0162CD	C,TA ELYC 10 V 15 UF+-20%
R124	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C105	CSX0162CD	C,TA ELYC 10 V 15 UF+-20%
R125	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C106	CSX0162CD	C,TA ELYC 10 V 15 UF+-20%
R126	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C107	CSX0175CD	C,TA ELYC 10 V 33 UF+-20%
R127	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C108	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R128	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C109	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R129	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C110	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R130	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C111	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R131	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C112	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R132	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C113	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R133	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C114	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R134	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C115	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R135	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C116	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R136	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C117	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R137	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C118	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R138	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C119	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%
R139	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C120	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%
R140	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C121	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%
R141	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C122	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%
R142	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	C123	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R143	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	C124	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%
R144	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	C125	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R145	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	C126	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%
R146	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	C127	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%
R147	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	C128	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%
R148	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	C129	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R149	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	C130	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
R150	RME1797CA	R,METAL 1/32W 100 OHM +-5%	C131	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
RZ101	RZA0417CA	R,BLOCK MNR14-E0AB-J-104	C132	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
RZ102	RZA0417CA	R,BLOCK MNR14-E0AB-J-104	C133	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
RZ103	RZA0417CA	R,BLOCK MNR14-E0AB-J-104	C134	CST0484VA	C,TA ELYC 6.3V 47 UF+-20%
RZ104	RZA0417CA	R,BLOCK MNR14-E0AB-J-104	C135	CST0484VA	C,TA ELYC 6.3V 47 UF+-20%
			C136	CST0484VA	C,TA ELYC 6.3V 47 UF+-20%

DSP-SUB UNIT ALL MODEL

SYMBOL	PART CODE...	DESCRIPTION	
L101	TLL0362CA	COIL LQH3C220K04 (22UH)	
L102	TLL0362CA	COIL LQH3C220K04 (22UH)	
L103	TLL0362CA	COIL LQH3C220K04 (22UH)	
L104	TLL0362CA	COIL LQH3C220K04 (22UH)	
L105	TLL0362CA	COIL LQH3C220K04 (22UH)	
L106	TLL0362CA	COIL LQH3C220K04 (22UH)	
FL101		NOT USEB	
	JBF0094	CONNECTOR FX6-80S-0.8SV2	
	JBF0094	CONNECTOR FX6-80S-0.8SV2	
	JBF0072MA	CONNECTOR FH12-30S-0.5SH	

DSP-Z UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION	SYMBOL	PART CODE	DESCRIPTION
IC402	IZA0121TA	IC AN8133FHQ	R424		4:3 PAL NOT USED
IC403	IZA0121TA	IC AN8133FHQ	R425	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5% AB
IC404	IZA0121TA	IC AN8133FHQ	R425	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5% C
IC405	ILN0143CD	IC,ANALOG NJM062V	R425		4:3 PAL NOT USED
IC406	IPX0007CY	IC XC62FP3302P	R426	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5% AB
IC407	IDT0357CA	IC,LOGIC TC7SU04FU(E6)	R426	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5% C
IC408	IDS0764CX	IC,LOGIC SN74AHC04PWR	R426		4:3 PAL NOT USED
IC409	INE0099	IC EPC1441PC8 3WDON	R427	RME1784CA	R,METAL 1/32W 0 OHM +-5% AB
IC409	INE0130	IC EPC1441PC8 3WD0P	R427	RME1797CA	R,METAL 1/32W 100 OHM +-5% CD
IC409	INE0127	IC EPC1441PC8 3KD0N	R428	RME1784CA	R,METAL 1/32W 0 OHM +-5% AB
IC409	INE0132	IC EPC1441PC8 3KD0P	R428	RME1797CA	R,METAL 1/32W 100 OHM +-5% CD
IC410	INE0080TA	IC EPF6016TC144-3	R429	RME1784CA	R,METAL 1/32W 0 OHM +-5% AB
IC411	IDT0468CA	IC,LOGIC TC7SH08FU	R429	RME1797CA	R,METAL 1/32W 100 OHM +-5% CD
IC412	IDT0355CA	IC,LOGIC TC7S08FU(E2)	R430	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%
IC413	IDT0353CA	IC,LOGIC TC7S04FU(E5)	R431	RMR4911CA	R,METAL 1/16W 3.9 KOHM +-0.5% AB
IC414	IDT0380MA	IC,LOGIC TC74HCT04AF	R431	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5% CD
Q401	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R432	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%
Q402	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R433	RMR4911CA	R,METAL 1/16W 3.9 KOHM +-0.5% AB
Q403	HTC0947CA	TRANSISTOR 2SC4226 (R24)	R433	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5% CD
Q404	HTC0968CA	TRANSISTOR 2SC4177 (L5)	R434	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%
Q405	HTC0968CA	TRANSISTOR 2SC4177 (L5)	R435	RMR4911CA	R,METAL 1/16W 3.9 KOHM +-0.5% AB
Q406	HTC0968CA	TRANSISTOR 2SC4177 (L5)	R435	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5% CD
Q407	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R436	RME1797CA	R,METAL 1/32W 100 OHM +-5%
Q408	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R437	RME1797CA	R,METAL 1/32W 100 OHM +-5%
Q409	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R438	RME1797CA	R,METAL 1/32W 100 OHM +-5%
Q410	HTA0392CZ	TRANSISTOR 2SA1738R (AKR)	R439		NOT USED
Q411	HTA0392CZ	TRANSISTOR 2SA1738R (AKR)	R440		NOT USED
Q412	HTA0392CZ	TRANSISTOR 2SA1738R (AKR)	R441		NOT USED
Q413	HTA0392CZ	TRANSISTOR 2SA1738R (AKR)	R442		NOT USED
Q414	HTA0392CZ	TRANSISTOR 2SA1738R (AKR)	R443		NOT USED
Q415	HTA0392CZ	TRANSISTOR 2SA1738R (AKR)	R444		NOT USED
Q416	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R445	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%
Q417	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R446	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%
Q418	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R447	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%
Q419	HTC0686CA	TRANSISTOR 2SC2462C (LC)	R448	RME1797CA	R,METAL 1/32W 100 OHM +-5%
Q420	HTA0268CA	TRANSISTOR 2SA1122C (CC)	R449	RME1797CA	R,METAL 1/32W 100 OHM +-5%
Q421	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R450	RME1797CA	R,METAL 1/32W 100 OHM +-5%
Q422	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R451	RMR4905CA	R,METAL 1/16W 390 OHM +-0.5%
Q423	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R452	RMR4905CA	R,METAL 1/16W 390 OHM +-0.5%
Q424	HTA0386CA	TRANSISTOR 2SA1611 (M5)	R454	RMR4905CA	R,METAL 1/16W 390 OHM +-0.5%
D401		NOT USED	R469	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%
D402	HDD0168CA	DIODE DCC010	R471	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%
R401	RME0912CA	R,METAL 1/8W 0 OHM	R472	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%
R402	RME0912CA	R,METAL 1/8W 0 OHM	R473	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R403	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	R474	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R404	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	R475	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R405	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	R476	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R406	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	R477	RME0912CA	R,METAL 1/8W 0 OHM
R407	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	R478	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R408	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	R479	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R409	RME1797CA	R,METAL 1/32W 100 OHM +-5%	R480	RMR4888CA	R,METAL 1/16W 3.3 KOHM +-0.5%
R410	RME1797CA	R,METAL 1/32W 100 OHM +-5%	R481	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R411	RME1797CA	R,METAL 1/32W 100 OHM +-5%	R482	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R412	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	R483	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R413	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	R484	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R414	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	R485	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R415	RME1805CA	R,METAL 1/32W 470 OHM +-5%	R486	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R416	RME1805CA	R,METAL 1/32W 470 OHM +-5%	R487	RMR4900CA	R,METAL 1/16W 1.5 KOHM +-0.5%
R417	RME1805CA	R,METAL 1/32W 470 OHM +-5%	R488	RMR4916CA	R,METAL 1/16W 150 OHM +-0.5%
R418	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	R489	RME0912CA	R,METAL 1/8W 0 OHM
R419	RME1807CA	R,METAL 1/32W 680 OHM +-5%	R490		NOT USED
R420	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	R491	RMR4889CA	R,METAL 1/16W 4.7 KOHM +-0.5%
R421	RME1807CA	R,METAL 1/32W 680 OHM +-5%	R492	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5%
R422	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5% AB	R493		NOT USED
R422	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5% CD	R494		NOT USED
R423	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5% AB	R495	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R423	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5% CD	R496	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%
R424	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5% CD	R497	RME1839CA	R,METAL 1/32W 1 MOHM +-5%
R424	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5% AB	R498	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R424	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5% C	R499	RME1800CA	R,METAL 1/32W 180 OHM +-5% CD
			R500	RME1784CA	R,METAL 1/32W 0 OHM +-5%
			R501		NOT USED
			R502	RME1784CA	R,METAL 1/32W 0 OHM +-5% ABD
			R503		NOT USED

DSP-Z UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
R504	RME1784CA	R,METAL 1/32W 0 OHM +-5%	CD	C423	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
R505	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C424	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
R506	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C425	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R507	RME1413CA	R,METAL 1/10W 0 OHM		C426	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R508	RME1413CA	R,METAL 1/10W 0 OHM		C427	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R509	RME1413CA	R,METAL 1/10W 0 OHM		C430		NOT USED	
R510	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C436	CCG0564CA	C,CERAMIC 50 V 33 PF+-5%	D
R511	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C436	CCG0566CA	C,CERAMIC 50 V 47 PF+-5%	C
R512	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C436	CCG0564CA	C,CERAMIC 50 V 33 PF+-5%	AB
R513	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C437	CCG0564CA	C,CERAMIC 50 V 33 PF+-5%	D
R514	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C437	CCG0566CA	C,CERAMIC 50 V 47 PF+-5%	C
R515	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C437	CCG0564CA	C,CERAMIC 50 V 33 PF+-5%	AB
R516	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C438	CCG0564CA	C,CERAMIC 50 V 33 PF+-5%	D
R517	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C438	CCG0566CA	C,CERAMIC 50 V 47 PF+-5%	C
R518	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C438	CCG0564CA	C,CERAMIC 50 V 33 PF+-5%	AB
R519	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C439	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R520	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		C440	CSX0165CA	C,TA ELYC 16 V 3.3 UF+-20%	
R521	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		C441	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R522	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C442	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R523	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C443	CSX0165CA	C,TA ELYC 16 V 3.3 UF+-20%	
R524	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C444	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R525	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C445	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R526	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AB	C446	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R526	CCG0554CA	C,CERAMIC 50 V 100 PF+-5%	C	C447	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R527	RME1784CA	R,METAL 1/32W 0 OHM +-5%	C	C448	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R528		NOT USED		C449	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R529	RME1784CA	R,METAL 1/32W 0 OHM +-5%	C	C450	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R530	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%		C451	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R531	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%		C452	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R532	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%		C453	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R533		NOT USED		C454	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R534		NOT USED		C455	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R535		NOT USED		C456	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R536		NOT USED		C457	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R537	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C458	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R538		NOT USED		C459	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R539		NOT USED		C460	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R540	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C461	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
R541	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C462	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
RZ401	RZA0416CA	R,BLOCK MNR14-E0AB-J-101		C463	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
RZ402	RZA0416CA	R,BLOCK MNR14-E0AB-J-101		C464	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
RZ403	RZA0416CA	R,BLOCK MNR14-E0AB-J-101		C465	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
RZ404	RZA0416CA	R,BLOCK MNR14-E0AB-J-101		C466	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
RZ405	RZA0416CA	R,BLOCK MNR14-E0AB-J-101		C467	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
RZ406	RZA0416CA	R,BLOCK MNR14-E0AB-J-101		C468	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
C401	CCG0547CA	C,CERAMIC 50 V 4 PF+-0.25PF	D	C469	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C402	CCG0547CA	C,CERAMIC 50 V 4 PF+-0.25PF	D	C470	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C403	CCG0547CA	C,CERAMIC 50 V 4 PF+-0.25PF	D	C472	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C404	CCG0559CA	C,CERAMIC 50 V 18 PF+-5%	ABC	C473	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C404	CCG0563CA	C,CERAMIC 50 V 27 PF+-5%	D	C474	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C405	CCG0559CA	C,CERAMIC 50 V 18 PF+-5%	ABC	C475		NOT USED	
C405	CCG0563CA	C,CERAMIC 50 V 27 PF+-5%	D	C476	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C406	CCG0559CA	C,CERAMIC 50 V 18 PF+-5%	ABC	C477	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C406	CCG0563CA	C,CERAMIC 50 V 27 PF+-5%	D	C478	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
C407	CCG0549CA	C,CERAMIC 50 V 6 PF+-0.5PF	ABC	C479	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C407	CCG0557CA	C,CERAMIC 50 V 15 PF+-5%	D	C480	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C408	CCG0549CA	C,CERAMIC 50 V 6 PF+-0.5PF	ABC	C481	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C408	CCG0557CA	C,CERAMIC 50 V 15 PF+-5%	D	C482	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C409	CCG0549CA	C,CERAMIC 50 V 6 PF+-0.5PF	ABC	C483	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C409	CCG0557CA	C,CERAMIC 50 V 15 PF+-5%	D	C484	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C410	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%		C485	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C411	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%		C486	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C412	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%		C487	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C413	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%		C488	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C414	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%		C489	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C415	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%		C490	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%	
C416	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%		C491	CCG0549CA	C,CERAMIC 50 V 6 PF+-0.5PF	AB
C417	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%		C491	CCG0550CA	C,CERAMIC 50 V 7 PF+-0.5 PF	CD
C418	CCG0689CA	C,CERAMIC 16 V22000 PF+-10%		C492	CCG0550CA	C,CERAMIC 50 V 7 PF+-0.5 PF	AB
C419	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%		C492	CCG0551CA	C,CERAMIC 50 V 8 PF+-0.5PF	CD
C420	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%		C493	CCG0561CA	C,CERAMIC 50 V 22 PF+-5%	AB
C421	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%		C493	CCG0561CA	C,CERAMIC 50 V 22 PF+-5%	CD
C422	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%					

DSP-Z UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION	
C494	CCG0559CA	C,CERAMIC 50 V 18 PF+-5%	AB
C494	CCG0559CA	C,CERAMIC 50 V 18 PF+-5%	CD
C495	CCG0549CA	C,CERAMIC 50 V 6 PF+-0.5PF	AB
C495	CCG0550CA	C,CERAMIC 50 V 7 PF+-0.5 PF	CD
C496	CCG0550CA	C,CERAMIC 50 V 7 PF+-0.5 PF	AB
C496	CCG0551CA	C,CERAMIC 50 V 8 PF+-0.5PF	CD
C497	CSX0164CD	C,TA ELYC 16 V 22 UF+-20%	
C498	CSX0165CA	C,TA ELYC 16 V 3.3 UF+-20%	
L401	TLL0362CA	COIL LQH3C220K04 (22UH)	
L402	TLL0362CA	COIL LQH3C220K04 (22UH)	
L403	TLN0041CA	COIL 150 MA 10 UH+-5%	
L404	TLN0041CA	COIL 150 MA 10 UH+-5%	
L405	TLN0041CA	COIL 150 MA 10 UH+-5%	
L413	TLN0047CA	COIL 180 MA 6.8 UH+-5%	C
L414	TLN0047CA	COIL 180 MA 6.8 UH+-5%	C
L415	TLN0047CA	COIL 180 MA 6.8 UH+-5%	C
L409	TLL0362CA	COIL LQH3C220K04 (22UH)	
L410	TLL0362CA	COIL LQH3C220K04 (22UH)	
L411	TLL0362CA	COIL LQH3C220K04 (22UH)	
L412		NOT USED	
L413	RME0912CA	R,METAL 1/8W 0 OHM	ABD
L414	TLN0006CA	COIL 220 MA 4.7 UH+-5%	ABD
L415	RME0912CA	R,METAL 1/8W 0 OHM	ABD
L416	TLL0362CA	COIL LQH3C220K04 (22UH)	
T401	AFA0017CA	FIL ACM3225-102-2P	
T402	AFA0017CA	FIL ACM3225-102-2P	
T403	AFA0017CA	FIL ACM3225-102-2P	
TP401	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
TP402	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
TP403	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
TP404	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
TP405	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
TP406	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
TP407	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
TP408	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
TP409	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
TP410	ETS0174CA	CHECK,CHIP EYF6C(2125)/RCT000000	
CN401	JBK0023	CONNECTOR KX15-80KLN1L	
CN402	JBF0096	CONNECTOR FX6-80P-0.8SV1	
CN403	JBF0089	CONNECTOR FX6-40P-0.8SV1	

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SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
IC601	ILD0103CG	IC,ANALOG	DBM2116AFP	R607	RMR4117CA	R,METAL	1/16W 2.7 KOHM +-0.5%
IC602	ILD0094CJ	IC,ANALOG	DBM2101BFP(N)	R608	RMR4117CA	R,METAL	1/16W 2.7 KOHM +-0.5%
IC602	ILD0100CJ	IC,ANALOG	DBM2101BFP(P)	R608	RMR4166CA	R,METAL	1/16W 4.7 KOHM +-0.5%
IC603	ILD0120CG	IC,ANALOG	DBM2124AFP	R609	RMR4114CA	R,METAL	1/16W 2.2 KOHM +-0.5%
IC604	ILN0073MA	IC,ANALOG	NJM1496M	R609	RMR4152CA	R,METAL	1/16W 100 OHM +-0.5%
IC611	IDT0453CX	IC,LOGIC	TC74VHC595FT	R610	RMR4350CA	R,METAL	1/16W 68 OHM +-0.5%
IC612	IDT0400CD	IC,LOGIC	TC7W32FU	R611	RMR4119CA	R,METAL	1/16W 470 OHM +-0.5%
IC613	IDT0401CD	IC,LOGIC	TC7WU04FU	R611	RMR4113CA	R,METAL	1/16W 1 KOHM +-0.5%
IC614	IDT0401CD	IC,LOGIC	TC7WU04FU	R612	RMR4112CA	R,METAL	1/16W 390 OHM +-0.5%
IC615	IDS0766CX	IC,LOGIC	SN74AHC32PWR	R612	RMR4137CA	R,METAL	1/16W 820 OHM +-0.5%
IC616	IDT0399CD	IC,LOGIC	TC7W08FU	R613	RMR4272CA	R,METAL	1/10W 82 OHM +-0.5%
IC617	IDT0400CD	IC,LOGIC	TC7W32FU	R613	RMR4155CA	R,METAL	1/16W 180 OHM +-0.5%
IC618	IDT0353CA	IC,LOGIC	TC7S04FU(E5)	R614	RMR4168CA	R,METAL	1/16W 8.2 KOHM +-0.5%
IC619	IDT0401CD	IC,LOGIC	TC7WU04FU	R615	RMR4144CA	R,METAL	1/16W 27 KOHM +-0.5%
IC620	IDS0767CX	IC,LOGIC	SN74AHC74PWR	R616	RMR4165CA	R,METAL	1/16W 3.9 KOHM +-0.5%
IC621	IDT0403CX	IC,LOGIC	TC74HC4053AFT(EL)	R617	RMR4117CA	R,METAL	1/16W 2.7 KOHM +-0.5%
IC622	IDT0353CA	IC,LOGIC	TC7S04FU(E5)	R618	RMR4146CA	R,METAL	1/16W 6.8 KOHM +-0.5%
IC623	IDT0402CD	IC,LOGIC	TC4W53FU	R618	RMR4168CA	R,METAL	1/16W 8.2 KOHM +-0.5%
IC624	IDT0402CD	IC,LOGIC	TC4W53FU	R619	RMR4161CA	R,METAL	1/16W 1.2 KOHM +-0.5%
Q601	HTC0690CA	TRANSISTOR	2SC2620B (QB)	R619	RMR4159CA	R,METAL	1/16W 680 OHM +-0.5%
Q602	HTC0690CA	TRANSISTOR	2SC2620B (QB)	R620	RMR4350CA	R,METAL	1/16W 68 OHM +-0.5%
Q603	HTC0690CA	TRANSISTOR	2SC2620B (QB)	R621	RMR4119CA	R,METAL	1/16W 470 OHM +-0.5%
Q604	HTD0247CZ	TRANSISTOR	DTC124EUA (25)	R621	RMR4113CA	R,METAL	1/16W 1 KOHM +-0.5%
Q605	HTD0247CZ	TRANSISTOR	DTC124EUA (25)	R622	RMR4112CA	R,METAL	1/16W 390 OHM +-0.5%
Q606	HTD0247CZ	TRANSISTOR	DTC124EUA (25)	R622	RMR4137CA	R,METAL	1/16W 820 OHM +-0.5%
Q607	HTD0247CZ	TRANSISTOR	DTC124EUA (25)	R623	RMR4272CA	R,METAL	1/10W 82 OHM +-0.5%
Q611	HTC0690CA	TRANSISTOR	2SC2620B (QB)	R623	RMR4155CA	R,METAL	1/16W 180 OHM +-0.5%
Q612	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R624	RMR4168CA	R,METAL	1/16W 8.2 KOHM +-0.5%
Q613	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R625	RMR4144CA	R,METAL	1/16W 27 KOHM +-0.5%
Q614	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R626	RMR4165CA	R,METAL	1/16W 3.9 KOHM +-0.5%
Q615	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R627	RMR4117CA	R,METAL	1/16W 2.7 KOHM +-0.5%
Q616	HTA0334CA	TRANSISTOR	2SA1226E4	R628	RMR4146CA	R,METAL	1/16W 6.8 KOHM +-0.5%
Q617	HTA0334CA	TRANSISTOR	2SA1226E4	R628	RMR4168CA	R,METAL	1/16W 8.2 KOHM +-0.5%
Q618	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R629	RMR4161CA	R,METAL	1/16W 1.2 KOHM +-0.5%
Q619	HTA0334CA	TRANSISTOR	2SA1226E4	R629	RMR4159CA	R,METAL	1/16W 680 OHM +-0.5%
Q621	HDD0159CA	DIODE	DCA010	R630	RMR4350CA	R,METAL	1/16W 68 OHM +-0.5%
Q622	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R631	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
Q623	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R632	RME1785CA	R,METAL	1/32W 10 OHM +-5%
Q624	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R633	RME1821CA	R,METAL	1/32W 10 KOHM +-5%
Q625	HTA0334CA	TRANSISTOR	2SA1226E4	R634	RME1825CA	R,METAL	1/32W 22 KOHM +-5%
Q626	HTA0334CA	TRANSISTOR	2SA1226E4	R641	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
Q627	HTA0334CA	TRANSISTOR	2SA1226E4	R642	RME1785CA	R,METAL	1/32W 10 OHM +-5%
Q628	HTA0334CA	TRANSISTOR	2SA1226E4	R643	RME1821CA	R,METAL	1/32W 10 KOHM +-5%
Q629	HTA0334CA	TRANSISTOR	2SA1226E4	R644	RME1825CA	R,METAL	1/32W 22 KOHM +-5%
Q631	HTD0160CZ	TRANSISTOR	DTA124EKA	R645	RMR4166CA	R,METAL	1/16W 4.7 KOHM +-0.5%
Q632	HTD0160CZ	TRANSISTOR	DTA124EKA	R645	RMR4167CA	R,METAL	1/16W 5.6 KOHM +-0.5%
Q633	HTD0247CZ	TRANSISTOR	DTC124EUA (25)	R646		NOT USED	
Q634	HTD0247CZ	TRANSISTOR	DTC124EUA (25)	R651	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
Q635	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R652	RME1785CA	R,METAL	1/32W 10 OHM +-5%
Q636	HTD0160CZ	TRANSISTOR	DTA124EKA	R653	RME1821CA	R,METAL	1/32W 10 KOHM +-5%
Q641	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R654	RME1825CA	R,METAL	1/32W 22 KOHM +-5%
Q642	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R655	RMR4166CA	R,METAL	1/16W 4.7 KOHM +-0.5%
Q643	HTC0686CA	TRANSISTOR	2SC2462C (LC)	R655	RMR4167CA	R,METAL	1/16W 5.6 KOHM +-0.5%
Q646	HTA0334CA	TRANSISTOR	2SA1226E4	R656		NOT USED	
D601	HDD0168CA	DIODE	DCC010	R661	RMR4147CA	R,METAL	1/16W 39 KOHM +-0.5%
D602	HDD0168CA	DIODE	DCC010	R661	RMR4143CA	R,METAL	1/16W 33 KOHM +-0.5%
D603	HDD0168CA	DIODE	DCC010	R662	RMR4173CA	R,METAL	1/16W 150 KOHM +-0.5%
D604	HDD0168CA	DIODE	DCC010	R663	RME1938CA	R,METAL	1/10W 3.3 MOHM +-5%
D605	HDD0168CA	DIODE	DCC010	R664	RME1938CA	R,METAL	1/10W 3.3 MOHM +-5%
D606	HDD0168CA	DIODE	DCC010	R665	RMR4166CA	R,METAL	1/16W 4.7 KOHM +-0.5%
R601	RMR4119CA	R,METAL	1/16W 470 OHM +-0.5%	R691	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
R601	RMR4113CA	R,METAL	1/16W 1 KOHM +-0.5%	R692	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
R602	RMR4112CA	R,METAL	1/16W 390 OHM +-0.5%	R693	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
R602	RMR4137CA	R,METAL	1/16W 820 OHM +-0.5%	R694	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
R603	RMR4272CA	R,METAL	1/10W 82 OHM +-0.5%	R695	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
R603	RMR4155CA	R,METAL	1/16W 180 OHM +-0.5%	R696	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
R604	RMR4117CA	R,METAL	1/16W 2.7 KOHM +-0.5%	R697	RME1833CA	R,METAL	1/32W 100 KOHM +-5%
R604	RMR4146CA	R,METAL	1/16W 6.8 KOHM +-0.5%	R698	RME1785CA	R,METAL	1/32W 10 OHM +-5%
R605	RMR4174CA	R,METAL	1/16W 220 KOHM +-0.5%	R701	RME1821CA	R,METAL	1/32W 10 KOHM +-5%
R606	RMR4171CA	R,METAL	1/16W 82 KOHM +-0.5%	R702	RME1825CA	R,METAL	1/32W 22 KOHM +-5%
R606	RMR4144CA	R,METAL	1/16W 27 KOHM +-0.5%	R703	RMR4119CA	R,METAL	1/16W 470 OHM +-0.5%
R606	RMR4144CA	R,METAL	1/16W 27 KOHM +-0.5%	R704	RMR4330CA	R,METAL	1/16W 47 OHM +-0.5%
				R704	RMR4206CA	R,METAL	1/10W 56.2 OHM +-0.25%
				R705	RMR4337CA	R,METAL	1/16W 10 OHM +-0.5%

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SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
R705	RMR4153CA	R,METAL 1/16W 120 OHM +-0.5%	C	R787	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	
R706	RMR4112CA	R,METAL 1/16W 390 OHM +-0.5%		R788	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	AC
R707	RMR4786CA	R,METAL 1/10W 22 OHM +-0.5%	ABD	R788	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	BD
R707	RMR4153CA	R,METAL 1/16W 120 OHM +-0.5%	C	R791	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R708	RME1785CA	R,METAL 1/32W 10 OHM +-5%		R792	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R709	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R793	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R710		NOT USED		R794	RME1812CA	R,METAL 1/32W 1.8 KOHM +-5%	
R711	RMR4169CA	R,METAL 1/16W 56 KOHM +-0.5%		R795	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%	
R712	RMR4119CA	R,METAL 1/16W 470 OHM +-0.5%	BD	R796	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
R712	RMR4117CA	R,METAL 1/16W 2.7 KOHM +-0.5%	AC	R797	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%	
R713	RMR4330CA	R,METAL 1/16W 47 OHM +-0.5%	AC	R798	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
R713	RME1413CA	R,METAL 1/10W 0 OHM	BD	R799	RME1423CA	R,METAL 1/10W 56 OHM +-5%	
R714	RMR4172CA	R,METAL 1/16W 100 KOHM +-0.5%	AC	R800	RME1423CA	R,METAL 1/10W 56 OHM +-5%	
R715	RMR4148CA	R,METAL 1/16W 47 KOHM +-0.5%	AC	R801	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R716	RMR4889CA	R,METAL 1/16W 4.7 KOHM +-0.5%	AC	R802	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R716	RMR4890CA	R,METAL 1/16W 5.6 KOHM +-0.5%	BD	R803	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R717	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%		R804	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R718	RMR4889CA	R,METAL 1/16W 4.7 KOHM +-0.5%	AC	R805	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R718	RMR4890CA	R,METAL 1/16W 5.6 KOHM +-0.5%	BD	R806	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R719	RME1413CA	R,METAL 1/10W 0 OHM		R807	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R720	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R808	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R721	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R809	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R722	RMR4161CA	R,METAL 1/16W 1.2 KOHM +-0.5%		R810	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
R723	RMR4104CA	R,METAL 1/10W 82.5 OHM +-1%		R811	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R724	RMR4137CA	R,METAL 1/16W 820 OHM +-0.5%		R812	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R725	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R813		NOT USED	
R731	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%		R814		NOT USED	
R732	RME1785CA	R,METAL 1/32W 10 OHM +-5%		R815	RME1816CA	R,METAL 1/32W 3.9 KOHM +-5%	
R733	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R816	RME1805CA	R,METAL 1/32W 470 OHM +-5%	
R734	RMR4154CA	R,METAL 1/16W 150 OHM +-0.5%	AC	R817	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	
R734	RMR4153CA	R,METAL 1/16W 120 OHM +-0.5%	BD	R818	RME1805CA	R,METAL 1/32W 470 OHM +-5%	ABD
R735	RMR4157CA	R,METAL 1/16W 270 OHM +-0.5%		R818	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%	C
R736	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%		R819	RME1805CA	R,METAL 1/32W 470 OHM +-5%	ABD
R737	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R819	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%	C
R738	RMR4119CA	R,METAL 1/16W 470 OHM +-0.5%		R820	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R739	RMR4153CA	R,METAL 1/16W 120 OHM +-0.5%	AC	R821	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	
R739	RMR4154CA	R,METAL 1/16W 150 OHM +-0.5%	BD	R822	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
R741	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%		R823	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R742	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%		R826	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
R743	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R827	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
R744	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R828	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
R745	RME1796CA	R,METAL 1/32W 82 OHM +-5%		R829	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
R746	RME1796CA	R,METAL 1/32W 82 OHM +-5%		R830	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
R747	RME1794CA	R,METAL 1/32W 56 OHM +-5%		R831	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R748	RME1787CA	R,METAL 1/32W 15 OHM +-5%		R832	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R751	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%		R833	RME1830CA	R,METAL 1/32W 56 KOHM +-5%	
R752	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%		R834	RME1824CA	R,METAL 1/32W 18 KOHM +-5%	
R753	RME1796CA	R,METAL 1/32W 82 OHM +-5%		R835	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%	
R754	RME1796CA	R,METAL 1/32W 82 OHM +-5%		R836	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	
R755	RMR4114CA	R,METAL 1/16W 2.2 KOHM +-0.5%		R837	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	
R757	RME1425CA	R,METAL 1/10W 82 OHM +-5%		R838	RME1830CA	R,METAL 1/32W 56 KOHM +-5%	
R758	RMR4165CA	R,METAL 1/16W 3.9 KOHM +-0.5%		R851	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
R759	RMR4165CA	R,METAL 1/16W 3.9 KOHM +-0.5%		R852	RME1812CA	R,METAL 1/32W 1.8 KOHM +-5%	
R761	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%		R853	RME1812CA	R,METAL 1/32W 1.8 KOHM +-5%	
R762	RME1834CA	R,METAL 1/32W 150 KOHM +-5%		R854	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	
R763	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%		R855	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%	
R764	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%		R856	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%	
R765	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%		R857	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%	
R766	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%		R858	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%	
R767	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%		R859	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	
R768	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R860		NOT USED	
R769	RME1796CA	R,METAL 1/32W 82 OHM +-5%		R861	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R770	RME1796CA	R,METAL 1/32W 82 OHM +-5%		R862	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R771	RME1814CA	R,METAL 1/32W 2.7 KOHM +-5%		R863	RME1827CA	R,METAL 1/32W 33 KOHM +-5%	AC
R772	RME1807CA	R,METAL 1/32W 680 OHM +-5%		R863	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	BD
R773	RME1487CA	R,METAL 1/10W 75 OHM +-5%		R864	RMR4888CA	R,METAL 1/16W 3.3 KOHM +-0.5%	ABC
R775	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%		R866	RMR4929CA	R,METAL 1/16W 1.2 KOHM +-0.5%	
R776	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%					
R781	RMR4138CA	R,METAL 1/16W 3.3 KOHM +-0.5%		J601	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R782	RMR4155CA	R,METAL 1/16W 180 OHM +-0.5%		J602		NOT USED	
R783	RMR4138CA	R,METAL 1/16W 3.3 KOHM +-0.5%		J603	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R784	RMR4161CA	R,METAL 1/16W 1.2 KOHM +-0.5%		J604	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R785	RME1785CA	R,METAL 1/32W 10 OHM +-5%		J605		NOT USED	
R786	RME1785CA	R,METAL 1/32W 10 OHM +-5%					

IF-Z UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION	SYMBOL	PART CODE	DESCRIPTION	
J606	RME1784CA	R,METAL 1/32W 0 OHM +-5%	L605	TLL0362CA	COIL LQH3C220K04 (22UH)	
J607		NOT USED	L606	TLL0362CA	COIL LQH3C220K04 (22UH)	
RV601	RNS0014CY	VR,METAL ST-4G 1 KOHM	L607	TLL0362CA	COIL LQH3C220K04 (22UH)	
C601	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL601	AFT0014CG	FIL TH355LSK-8718	A
C602	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL601	AFL0098CG	FIL LY-0001 (14.3MHZ LPF)	C
C603	CCG0553CA	C,CERAMIC 50 V 10 PF+-0.5PF	FL601	AFT0016CG	FIL TH355LSK-8893	BD
C604	CCG0553CA	C,CERAMIC 50 V 10 PF+-0.5PF	FL602	AFT0014CG	FIL TH355LSK-8718	A
C605	CCG0575CA	C,CERAMIC 25 V10000 PF+-10%	FL602	AFL0098CG	FIL LY-0001 (14.3MHZ LPF)	C
C606	CCG0575CA	C,CERAMIC 25 V10000 PF+-10%	FL602	AFT0016CG	FIL TH355LSK-8893	BD
C607		NOT USED	FL603	AFT0014CG	FIL TH355LSK-8718	A
C608	CCG0563CA	C,CERAMIC 50 V 27 PF+-5%	FL603	AFL0098CG	FIL LY-0001 (14.3MHZ LPF)	C
C609	CCG0567CA	C,CERAMIC 50 V 56 PF+-5%	FL603	AFT0016CG	FIL TH355LSK-8893	BD
C610	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL604	AFT0014CG	FIL TH355LSK-8718	A
C611	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL604	AFL0098CG	FIL LY-0001 (14.3MHZ LPF)	C
C612	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL604	AFT0016CG	FIL TH355LSK-8893	BD
C613	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL605	AFX0110CD	FIL 630BJN-1635	AC
C614	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL605	AFX0111CD	FIL 630BJN-1636	BD
C615	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL607	AFT0014CG	FIL TH355LSK-8718	A
C616	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL607	AFL0098CG	FIL LY-0001 (14.3MHZ LPF)	C
C617	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL607	AFT0016CG	FIL TH355LSK-8893	BD
C618	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL611	AFH0026CD	FIL H353TCH-8744	A
C619	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL611	AFA0025CD	FIL A353TCH-8903=P3(13.5MTRAB	B
C620	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL612	AFH0026CD	FIL H353TCH-8744	A
C621	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL612	AFA0025CD	FIL A353TCH-8903=P3(13.5MTRAB	B
C622	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL612	AFH0026CD	FIL H353TCH-8744	A
C623	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL613	AFA0025CD	FIL A353TCH-8903=P3(13.5MTRAB	B
C624	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL613	AFH0026CD	FIL H353TCH-8744	A
C625	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL614	AFA0025CD	FIL A353TCH-8903=P3(13.5MTRAB	B
C626	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL614	AFH0026CD	FIL H353TCH-8744	A
C627	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL614	AFA0025CD	FIL A353TCH-8903=P3(13.5MTRAB	B
C628	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	FL617	AFH0026CD	FIL H353TCH-8744	A
C629		NOT USED	FL617	AFA0025CD	FIL A353TCH-8903=P3(13.5MTRAB	B
C630	CCG0575CA	C,CERAMIC 25 V10000 PF+-10%	DL600	EDG0008CJ	DELAY LINE G356ENM-8778	
C631	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	SW600		NOT USED	
C632	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	CN600	JBK0008	CONNECTOR KX15-70KLD1L	
C633	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C634	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C635	CCE0121CA	C,CERAMIC 16 V 1 UF+80-20%				
C636	CCE0121CA	C,CERAMIC 16 V 1 UF+80-20%				
C637	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C638	CCG0554CA	C,CERAMIC 50 V 100 PF+-5%				
C641	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C642	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C643	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C644	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C645	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C646	CCG0553CA	C,CERAMIC 50 V 10 PF+-0.5PF				
C647	CCG0559CA	C,CERAMIC 50 V 18 PF+-5%				
C648	CCG0559CA	C,CERAMIC 50 V 18 PF+-5%				
C651	CEU0076CY	C,AL ELYC 6.3V 22 UF+-20%				
C652	CEU0076CY	C,AL ELYC 6.3V 22 UF+-20%				
C653	CEU0076CY	C,AL ELYC 6.3V 22 UF+-20%				
C654	CEU0076CY	C,AL ELYC 6.3V 22 UF+-20%				
C655	CEU0076CY	C,AL ELYC 6.3V 22 UF+-20%				
C656	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C657	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%				
C658	CCG0561CA	C,CERAMIC 50 V 22 PF+-5%				
C659	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%				
C661	CEU0070CX	C,AL ELYC 16 V 47 UF+-20%				
C662	CEU0070CX	C,AL ELYC 16 V 47 UF+-20%				
C663	CEU0069CY	C,AL ELYC 16 V 10 UF+-20%				
C664	CEU0069CY	C,AL ELYC 16 V 10 UF+-20%				
C665	CEU0069CY	C,AL ELYC 16 V 10 UF+-20%				
C667	CSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%				
C668	CSM0036CY	C,TA ELYC 10 V 47 UF+-20%				
C669	CSS0168CA	C,TA ELYC 16 V 1 UF+-20%				
L601	TLL0362CA	COIL LQH3C220K04 (22UH)				
L602	TLL0362CA	COIL LQH3C220K04 (22UH)				
L603		NOT USED				
L604		NOT USED				

MB-Z UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
IC801	IDT0453CX	IC.LOGIC TC74VHC595FT		R847	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
IC802	IDT0453CX	IC.LOGIC TC74VHC595FT		R848	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
IC803	ISM0039CG	IC M62352GP		R849	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
Q801	HTD0160CZ	TRANSISTOR DTA124EKA		R850	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
Q802	HTD0160CZ	TRANSISTOR DTA124EKA		R851	RME0912CA	R,METAL 1/8W 0 OHM	
Q803	HTD0160CZ	TRANSISTOR DTA124EKA		R852	RME1413CA	R,METAL 1/10W 0 OHM	A
Q804	HTD0160CZ	TRANSISTOR DTA124EKA		R853	RME1413CA	R,METAL 1/10W 0 OHM	A
Q805	HTD0247CZ	TRANSISTOR DTC124EUA (25)		R853	TLM0062CA	COIL 50 MA 1 UH+-10%	BCD
Q806	HTD0247CZ	TRANSISTOR DTC124EUA (25)		R854	TLM0062CA	COIL 50 MA 1 UH+-10%	BCD
Q807	HTD0247CZ	TRANSISTOR DTC124EUA (25)		R854		NOT USED	
Q808	HTD0247CZ	TRANSISTOR DTC124EUA (25)		R854	TLM0037CA	COIL 100 MA 1 UH+-20%	CD
Q809	HTD0247CZ	TRANSISTOR DTC124EUA (25)		R855	TLM0037CA	COIL 100 MA 1 UH+-20%	
Q810	HTD0160CZ	TRANSISTOR DTA124EKA		R856		NOT USED	
D801	HDH0230CA	DIODE,ZEN HZM5B (17)		R857	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
D802	HDH0230CA	DIODE,ZEN HZM5B (17)		R857	TLB0034CA	COIL BK1608HM601-T	BD
R801	RME0912CA	R,METAL 1/8W 0 OHM		R858	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R802	RME0912CA	R,METAL 1/8W 0 OHM	AC	R858	TLB0034CA	COIL BK1608HM601-T	BD
R802	TLM0037CA	COIL 100 MA 1 UH+-20%	BD	R861	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R803	RME0912CA	R,METAL 1/8W 0 OHM	AC	R861	TLB0034CA	COIL BK1608HM601-T	BD
R803	TLM0037CA	COIL 100 MA 1 UH+-20%	BD	R862	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R804	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R862	TLB0034CA	COIL BK1608HM601-T	BD
R805	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R863	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R806	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R863	TLB0034CA	COIL BK1608HM601-T	BD
R807	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R864	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R808	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R864	TLB0034CA	COIL BK1608HM601-T	BD
R809	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R865	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R810	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R865	TLB0034CA	COIL BK1608HM601-T	BD
R811	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R866	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R812	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R866	TLB0034CA	COIL BK1608HM601-T	BD
R812	TLB0034CA	COIL BK1608HM601-T	BD	R867	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R813	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R867	TLB0034CA	COIL BK1608HM601-T	BD
R814	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R868	RME1413CA	R,METAL 1/10W 0 OHM	
R815	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R869	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R816	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R869	TLB0034CA	COIL BK1608HM601-T	BD
R817	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R870	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R818	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R870	TLB0034CA	COIL BK1608HM601-T	BD
R819	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R871	RME1413CA	R,METAL 1/10W 0 OHM	
R820	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R874	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R820	TLB0034CA	COIL BK1608HM601-T	BCD	R875	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R821	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R876	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R822	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R877	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R823	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R877	TLB0034CA	COIL BK1608HM601-T	BD
R824	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R878	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R825	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R878	TLB0034CA	COIL BK1608HM601-T	BD
R826	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R879	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R827	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R879	TLB0034CA	COIL BK1608HM601-T	BD
R829	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R880	RME1413CA	R,METAL 1/10W 0 OHM	AC
R829	TLB0034CA	COIL BK1608HM601-T	BD	R880	TLB0037CA	COIL BLM21A601S	BD
R830	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R881	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R830	TLB0034CA	COIL BK1608HM601-T	BD	R882	RME1413CA	R,METAL 1/10W 0 OHM	AC
R831	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R882	TLB0037CA	COIL BLM21A601S	BD
R831	TLB0034CA	COIL BK1608HM601-T	BD	R883	RME1413CA	R,METAL 1/10W 0 OHM	AC
R832	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R883	TLB0037CA	COIL BLM21A601S	BD
R832	TLB0034CA	COIL BK1608HM601-T	BD	R884	RME0912CA	R,METAL 1/8W 0 OHM	AC
R833	RME0912CA	R,METAL 1/8W 0 OHM	AC	R884	TLM0037CA	COIL 100 MA 1 UH+-20%	BD
R833	TLM0037CA	COIL 100 MA 1 UH+-20%	BD	R885	RME1413CA	R,METAL 1/10W 0 OHM	
R834	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R886		NOT USED	
R834	TLB0034CA	COIL BK1608HM601-T	BD	R887	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R836	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R887	TLB0034CA	COIL BK1608HM601-T	BD
R836	TLB0034CA	COIL BK1608HM601-T	BD	R888	RME1413CA	R,METAL 1/10W 0 OHM	
R837	RME1413CA	R,METAL 1/10W 0 OHM	A	R889	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R837	TLM0062CA	COIL 50 MA 1 UH+-10%	BCD	R890	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R838	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R891	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R839	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R891	TLB0034CA	COIL BK1608HM601-T	BD
R840	TLB0034CA	COIL BK1608HM601-T		R892	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R841	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R892	TLB0034CA	COIL BK1608HM601-T	BD
R842	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R893	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R843	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R894	RMR4906CA	R,METAL 1/16W 120 OHM +-0.5%	
R844	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R895	RMR4906CA	R,METAL 1/16W 120 OHM +-0.5%	
R845	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R897	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
R846	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R898	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
				R899	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
				R900	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%	

MB-Z UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION
R901	RMR4860CA	R.METAL 1/16W 10 KOHM +-0.5%
R902	RMR4860CA	R.METAL 1/16W 10 KOHM +-0.5%
R903	RME1422CA	R.METAL 1/10W 47 OHM +-5%
R904	RME0912CA	R.METAL 1/8W 0 OHM
R905	RME1821CA	R.METAL 1/32W 10 KOHM +-5%
R906	RME1784CA	R.METAL 1/32W 0 OHM +-5%
R907	RME1102HB	R.METAL 1/4W 332 KOHM +-1%
C801	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
C802	CSX0166CY	C.TA ELYC 16 V 10 UF+-20%
C803	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
C804	CSX0166CY	C.TA ELYC 16 V 10 UF+-20%
C805	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
C806	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
C807	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
C808	CELO180	C.AL ELYC 25 V 330 UF+-20%
C809	CGG9612CA	C.CERAMIC 50 V 0.1 UF+80-20%
C810	CST0472VA	C.TA ELYC 16 V 10 UF+-20%
C811	CCC1013VA	C.CERAMIC 50 V 39 PF+-5%
L801	TLN0086CA	COIL 125 MA 22 UH+-5%
L802	TLN0086CA	COIL 125 MA 22 UH+-5%
T801	AFA0017CA	FIL ACM3225-102-2P
T802	AFA0017CA	FIL ACM3225-102-2P
T803	AFA0017CA	FIL ACM3225-102-2P
F801	EFG0683	FUSE TSC UL,CSA 125V 3.0A
FC801	EFH0251	HLDR,FUSE H-0011-1
FK801	ERN0049	COVER 840522-23
CN801	JBD0175	CONNECTOR DF13A-8P-1.25H(20)
CN802	JBX2824MA	CONNECTOR 32FLZ-RSM1-R
CN803	JBX2823MA	CONNECTOR 32FLZ-SM1-R
CN804	JBF0100	CONNECTOR FX6-80P-0.8SV
CN805	JBK0005PA	CONNECTOR KX14-70K5D1
CN806	JBD0177	CONNECTOR DF13A-12P-1.25H(20)
CN807	JBK0005PA	CONNECTOR KX14-70K5D1
CN808	JBD0176	CONNECTOR DF13A-10P-1.25H(20)
CN809	JBK0022	CONNECTOR KX14-80K5D1
CN810	JBD0196	CONNECTOR DF13A-14P-1.25H(20)
CN811	JBK0005PA	CONNECTOR KX14-70K5D1
CN812	JBK0022	CONNECTOR KX14-80K5D1

A

PS-Z UNIT A;NTSC 16:9/4:3 B;NTSC4:3 C;PAL 16:9/4:3 & PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
IC1	ILN0066MA	IC,ANALOG NJM4560M		R19	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
IC2	ILN0066MA	IC,ANALOG NJM4560M		R20	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
IC3	IPH0003CD	IC HA178L05UA		R21	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
IC4	IPT0010CZ	IC LM4041DIM3-ADJ		R22	RME1785CA	R,METAL 1/32W 10 OHM +-5%	
IC5	IPT0036CX	IC TL1451ACPWR		R23	RMR4890CA	R,METAL 1/16W 5.6 KOHM +-0.5%	
IC6	IPT0036CX	IC TL1451ACPWR		R24	RMR4908CA	R,METAL 1/16W 560 OHM +-0.5%	
IC7	ILN0066MA	IC,ANALOG NJM4560M		R25	RMR4888CA	R,METAL 1/16W 3.3 KOHM +-0.5%	
D1	HDF0062	DIODE FMB-24L 10A	BC	R26	RMR4891CA	R,METAL 1/16W 8.2 KOHM +-0.5%	
D15	HDA0076	DIODE AK04	BC	R27	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5%	
Q1	HTJ0033	TRANSISTOR 2SJ529L	AB	R28	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%	
Q1	HTJ0034	TRANSISTOR 2SJ526	CD	R29	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%	
Q2	HTD0245CZ	TRANSISTOR 2SD1820		R30	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q3	HTB0213CZ	TRANSISTOR 2SB1219		R31	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q4	HTC0973	TRANSISTOR 2SC3420GR		R32	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	A
Q5	HTC0973	TRANSISTOR 2SC3420GR		R33	RME1835CA	R,METAL 1/32W 220 KOHM +-5%	BC
Q6	HTJ0031	TRANSISTOR 2SJ279L	AB	R34	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q6	HTJ0035	TRANSISTOR 2SJ528(L)	C	R35	RME1835CA	R,METAL 1/32W 220 KOHM +-5%	A
Q7	HTD0245CZ	TRANSISTOR 2SD1820		R35	RME1829CA	R,METAL 1/32W 47 KOHM +-5%	BC
Q8	HTB0213CZ	TRANSISTOR 2SB1219		R36	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q9	HTC0973	TRANSISTOR 2SC3420GR		R37	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
Q10	HTJ0031	TRANSISTOR 2SJ279L	AB	R38	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
Q10	HTJ0035	TRANSISTOR 2SJ528(L)	C	R39	RME1785CA	R,METAL 1/32W 10 OHM +-5%	
Q11	HTD0245CZ	TRANSISTOR 2SD1820		R40	RMR4892CA	R,METAL 1/16W 15 KOHM +-0.5%	
Q12	HTB0213CZ	TRANSISTOR 2SB1219		R41	RMR4926CA	R,METAL 1/16W 1.8 KOHM +-0.5%	
Q13	HTJ0033	TRANSISTOR 2SJ529L		R42	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%	
Q14	HTD0245CZ	TRANSISTOR 2SD1820		R43	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q15	HTB0213CZ	TRANSISTOR 2SB1219		R44	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q16	HTD0184CD	TRANSISTOR 2SD1000(LL)		R45	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
Q17	HTA0267CA	TRANSISTOR 2SA1121C (SC)		R46	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q18	HTD0184CD	TRANSISTOR 2SD1000(LL)		R47	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q19	HTA0267CA	TRANSISTOR 2SA1121C (SC)		R48	RME1823CA	R,METAL 1/32W 15 KOHM +-5%	
Q20	HTI0019CA	TRANSISTOR IMB1A		R49	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q21	HTU0029CZ	TRANSISTOR UMD2N		R50	RMR4925CA	R,METAL 1/16W 18 KOHM +-0.5%	
Q22	HTD0247CZ	TRANSISTOR DTC124EUA (25)		R51	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q23	HTD0247CZ	TRANSISTOR DTC124EUA (25)		R52	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
Q24	HTD0160CZ	TRANSISTOR DTA124EKA		R53	RME1835CA	R,METAL 1/32W 220 KOHM +-5%	
Q25	HTI0019CA	TRANSISTOR IMB1A		R54	RMR4869CA	R,METAL 1/16W 39 KOHM +-0.5%	
D1	HDS0656	DIODE SB60-05K	A	R55	RMR4920CA	R,METAL 1/16W 33 KOHM +-0.5%	
D2	HDS0634CD	DIODE SFPB-74 (D4XX)		R56	RMR4901CA	R,METAL 1/16W 22 KOHM +-0.5%	
D3	HDS0578CZ	DIODE SB05-05CP		R57	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
D4		NOT USED		R58	RMR4912CA	R,METAL 1/16W 47 KOHM +-0.5%	
D5	HDD0167CA	DIODE DCB010		R59	RME1828CA	R,METAL 1/32W 39 KOHM +-5%	
D6	HDD0159CA	DIODE DCA010		R60	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
D7	HDD0159CA	DIODE DCA010		R61	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	
D8	HDD0159CA	DIODE DCA010		R62	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
D9	HDD0159CA	DIODE DCA010		R63	RMR4890CA	R,METAL 1/16W 5.6 KOHM +-0.5%	
D10	HDH0230CA	DIODE,ZEN HZM5B (17)		R64	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
D11	HDE0063	DIODE EU2		R65	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
D12	HDS0579CZ	DIODE SB02-09CP		R66	RME1785CA	R,METAL 1/32W 10 OHM +-5%	
D13	HDS0634CD	DIODE SFPB-74 (D4XX)		R67		NOT USED	
D14	HDS0578CZ	DIODE SB05-05CP		R68		NOT USED	
R1	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%		R69	RMR4911CA	R,METAL 1/16W 3.9 KOHM +-0.5%	
R2	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R70	RME1433CA	R,METAL 1/10W 390 OHM +-5%	
R3	RME1785CA	R,METAL 1/32W 10 OHM +-5%		R71	RMR4909CA	R,METAL 1/16W 1 KOHM +-0.5%	
R4	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		R72	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%	
R5	RMR4928CA	R,METAL 1/16W 680 OHM +-0.5%		R73	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R6	RMR4888CA	R,METAL 1/16W 3.3 KOHM +-0.5%		R74	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%	
R7	RMR4891CA	R,METAL 1/16W 8.2 KOHM +-0.5%		R75	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%	
R8	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R76	RMR4911CA	R,METAL 1/16W 3.9 KOHM +-0.5%	
R9	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		R77	RME1434CA	R,METAL 1/10W 470 OHM +-5%	
R10	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		R78	RMR4907CA	R,METAL 1/16W 470 OHM +-0.5%	
R100	RME1096	R,METAL 1/4W 100 KOHM +-1%	A	R79	RMR4901CA	R,METAL 1/16W 22 KOHM +-0.5%	
R11	RMR4891CA	R,METAL 1/16W 8.2 KOHM +-0.5%		R80	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
R12	RME1784CA	R,METAL 1/32W 0 OHM +-5%		R81	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%	
R13	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		R82	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%	
R14	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		R83		NOT USED	
R15	RMR4924CA	R,METAL 1/16W 2.7 KOHM +-0.5%		R84	RME1413CA	R,METAL 1/10W 0 OHM	
R16	RMR4928CA	R,METAL 1/16W 680 OHM +-0.5%		R85	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R17	RMR4889CA	R,METAL 1/16W 4.7 KOHM +-0.5%		R86		NOT USED	
R18	RMR4921CA	R,METAL 1/16W 27 KOHM +-0.5%		R87	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
				R88	RMR4912CA	R,METAL 1/16W 47 KOHM +-0.5%	
				R89	RMR4910CA	R,METAL 1/16W 2.2 KOHM +-0.5%	
				R90	RMR4888CA	R,METAL 1/16W 3.3 KOHM +-0.5%	

PS-Z UNIT A;NTSC 16:9/4:3 B;NTSC4:3 C;PAL 16:9/4:3 & PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
R91	RMR4921CA	R,METAL	1/16W 27 KOHM +-0.5%	C61	CQM0468	C,PLASTIC	100 V 0.22UF+-10%
R92	RMR4920CA	R,METAL	1/16W 33 KOHM +-0.5%	C62	CEL0107	C,AL ELYC	25 V 100 UF+-20%
R93	RME1784CA	R,METAL	1/32W 0 OHM +-5%	C63	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%
R94	RMR4916CA	R,METAL	1/16W 150 OHM +-0.5%	C64	CEL0135	C,AL ELYC	16 V 220 UF+-20%
R95	RMR4907CA	R,METAL	1/16W 470 OHM +-0.5%	C65	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%
R96	RMR4907CA	R,METAL	1/16W 470 OHM +-0.5%	C66	CEL0168	C,AL ELYC	16 V 270 UF+-20%
R97	RMR4097CA	R,METAL	1/10W 22.1 OHM +-1%	C67	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%
R97	RME1052HB	R,METAL	1/4W 22.1 OHM +-1%	C68	CCG9276CA	C,CERAMIC	50 V 150 PF+-5%
R98	RMR4046CA	R,METAL	1/10W 100 OHM +-1%	C69	CCG9276CA	C,CERAMIC	50 V 150 PF+-5%
R99	RMR4889CA	R,METAL	1/16W 4.7 KOHM +-0.5%	C70	CEL0183	C,AL ELYC	10 V 330 UF+-20%
C1	CEL0106	C,AL ELYC	25 V 47 UF+-20%	C71	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%
C2	CCU0205CA	C,CERAMIC	50 V 1 UF+80-20%	C72	CEL0109	C,AL ELYC	16 V 100 UF+-20%
C3	CEL0173	C,AL ELYC	25 V 1000 UF+-20%	C73	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%
C4	CCU0205CA	C,CERAMIC	50 V 1 UF+80-20%	C74	CSC0231	C,TA ELYC	16 V 47 UF+-20%
C5	CEL0176	C,AL ELYC	10 V 680 UF+-20%	C75	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%
C6	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%	C76	CCG9612CA	C,CERAMIC	50 V 0.1 UF+80-20%
C7	CSS0148CA	C,TA ELYC	35 V 0.1 UF+-20%	C77	CSS0168CA	C,TA ELYC	16 V 1 UF+-20%
C8	CCE0121CA	C,CERAMIC	16 V 1 UF+80-20%	C78	CSS0168CA	C,TA ELYC	16 V 1 UF+-20%
C9	CEL0109	C,AL ELYC	16 V 100 UF+-20%	C79		NOT USED	
C10	CCG9271CA	C,CERAMIC	50 V 56 PF+-5%	C80	CSS0168CA	C,TA ELYC	16 V 1 UF+-20%
C11	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	C81		NOT USED	
C12	CEL0109	C,AL ELYC	16 V 100 UF+-20%	C82		NOT USED	
C13	CCE0121CA	C,CERAMIC	16 V 1 UF+80-20%	L4	TLH0067	COIL	HK-08S050-2010
C14	CCG9271CA	C,CERAMIC	50 V 56 PF+-5%	L1	TLS0120	COIL	SK-5M-4W (2A 48UH)
C15	CEL0109	C,AL ELYC	16 V 100 UF+-20%	L2	TLH0097	COIL	HK-10S070-1810
C16	CCE0121CA	C,CERAMIC	16 V 1 UF+80-20%	L3	TLS0120	COIL	SK-5M-4W (2A 48UH)
C17	CCU0205CA	C,CERAMIC	50 V 1 UF+80-20%	L4	TLH0064	COIL	HK-05S040-1010 (1A 100UH)
C18	CSX0165CA	C,TA ELYC	16 V 3.3 UF+-20%	L5	TLS0120	COIL	SK-5M-4W (2A 48UH)
C19	GSM0034CA	C,TA ELYC	10 V 10 UF+-20%	L6	TLT0085	COIL	47 UH+-10% 0.94A
C20	CEL0176	C,AL ELYC	10 V 680 UF+-20%	L7	TLH0067	COIL	HK-08S050-2010
C21	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%	L8	TLT0085	COIL	47 UH+-10% 0.94A
C22	CSS0148CA	C,TA ELYC	35 V 0.1 UF+-20%	L9	TLL0365CA	COIL	LQH3C221K04 (220UH)
C23	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%	L10	TLL0365CA	COIL	LQH3C221K04 (220UH)
C24	CEL0109	C,AL ELYC	16 V 100 UF+-20%	L11	TLS0120	COIL	SK-5M-4W (2A 48UH)
C25	CCG9271CA	C,CERAMIC	50 V 56 PF+-5%	L12	TLL0365CA	COIL	LQH3C221K04 (220UH)
C26	CSM0021CA	C,TA ELYC	16 V 2.2 UF+-20%	L10	TLL0362CA	COIL	LQH3C220K04 (22UH)
C27	CEL0109	C,AL ELYC	16 V 100 UF+-20%	T1	8659028	XFMR	TC-0629
C28	CCE0121CA	C,CERAMIC	16 V 1 UF+80-20%	CN202	JBK0008	CONNECTOR	KX15-70KLD1L
C29	CCG9288CA	C,CERAMIC	50 V 2200 PF+-10%				
C30	CCG9286CA	C,CERAMIC	50 V 1000 PF+-10%				
C31	CCG9278CA	C,CERAMIC	50 V 220 PF+-5%				
C32	CCG9280CA	C,CERAMIC	50 V 330 PF+-5%				
C33	CCG9286CA	C,CERAMIC	50 V 1000 PF+-10%				
C34	CCG9292CA	C,CERAMIC	50 V10000 PF+-10%				
C34	CCG9278CA	C,CERAMIC	50 V 220 PF+-5%				
C35	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%				
C36	CEL0181	C,AL ELYC	25 V 560 UF+-20%				
C37	CCU0205CA	C,CERAMIC	50 V 1 UF+80-20%				
C38	CEL0178	C,AL ELYC	16 V 470 UF+-20%				
C39	CCE0121CA	C,CERAMIC	16 V 1 UF+80-20%				
C40	CSS0148CA	C,TA ELYC	35 V 0.1 UF+-20%				
C41	CEL0168	C,AL ELYC	16 V 270 UF+-20%				
C42	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%				
C43	CCG9288CA	C,CERAMIC	50 V 2200 PF+-10%				
C44	CCG9286CA	C,CERAMIC	50 V 1000 PF+-10%				
C45		NOT USED					
C46		NOT USED					
C47	CCG9280CA	C,CERAMIC	50 V 330 PF+-5%				
C48	CCG9292CA	C,CERAMIC	50 V10000 PF+-10%				
C49		NOT USED					
C50	CEL0154	C,AL ELYC	63 V 47 UF+-20%				
C51		NOT USED					
C52	CQM0468	C,PLASTIC	100 V 0.22UF+-10%				
C53		NOT USED					
C54	CEL0170	C,AL ELYC	25 V 150 UF+-20%				
C55	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%				
C56	CEL0171	C,AL ELYC	10 V 470 UF+-20%				
C57	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%				
C58	CEL0184	C,AL ELYC	16 V 270 UF+-20%				
C59	CCT0109CA	C,CERAMIC	25 V 1 UF+80-20%				
C60	CEL0154	C,AL ELYC	63 V 47 UF+-20%				

SG UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	..PART CODE.. DESCRIPTION		SYMBOL	..PART CODE.. DESCRIPTION	
IC101	ILL0123CY	IC LMC662CM	AC	R131	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	AC
IC102	IDT0402CD	IC,LOGIC TC4W53FU		R132	RME1827CA	R,METAL 1/32W 33 KOHM +-5%	
IC103	ISL0002CY	IC LM1881M		R133	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	
IC104	IDT0402CD	IC,LOGIC TC4W53FU		R134	RME1827CA	R,METAL 1/32W 33 KOHM +-5%	AC
IC105	IDT0402CD	IC,LOGIC TC4W53FU		R135	RME1820CA	R,METAL 1/32W 8.2 KOHM +-5%	
IC106	ISM0007MA	IC MN6761S (GL)		R136	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%	
IC107	IDS0767CX	IC,LOGIC SN74AHC74PWR	AC	R137	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
IC108	IDT0439CX	IC,LOGIC TC74VHC123AFT		R138	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
IC109	IDT0401CD	IC,LOGIC TC7WU04FU		R139	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%	
IC110	ISL0002CY	IC LM1881M		R140	RME1799CA	R,METAL 1/32W 150 OHM +-5%	
IC111	IDT0402CD	IC,LOGIC TC4W53FU		R141	RME1829CA	R,METAL 1/32W 47 KOHM +-5%	
IC112	IDT0381GD	IC,LOGIC TC7W04FU		R142	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%	
IC114	ISC0020TA	IC CXD1217Q		R143	RME1784CA	R,METAL 1/32W 0 OHM +-5%	BD
IC115	IDT0353CA	IC,LOGIC TC7S04FU(E5)		R144	RME1832CA	R,METAL 1/32W 82 KOHM +-5%	
IC116	IDS0764CX	IC,LOGIC SN74AHC04PWR		R145	RME1838CA	R,METAL 1/32W 680 KOHM +-5%	
IC117	IDT0402CD	IC,LOGIC TC4W53FU		R146	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	AC
IC118	IDT0381GD	IC,LOGIC TC7W04FU		R147	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	BD
IC119	IDS0764CX	IC,LOGIC SN74AHC04PWR		R148	RME1814CA	R,METAL 1/32W 2.7 KOHM +-5%	
IC120	IDT0353CA	IC,LOGIC TC7S04FU(E5)		R149	RME1816CA	R,METAL 1/32W 3.9 KOHM +-5%	
IC121	IDT0353CA	IC,LOGIC TC7S04FU(E5)		R150	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
IC122	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)		R151	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
IC123	IDT0381GD	IC,LOGIC TC7W04FU		R152	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%	
IC113	INE0101SA	IC EPM7064SLC44-10 3WS0N	AC	R153	RME1799CA	R,METAL 1/32W 150 OHM +-5%	
IC113	INE0135SA	IC EPM7064SLC44-10 3KS1P	BD	R154	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
Q101	HTU0023CA	TRANSISTOR UMX1 (X1)		R155	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	
Q102	HTC0686CA	TRANSISTOR 2SC2462C (LC)		R156	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
Q103	HTK0126CZ	TRANSISTOR 2SK443-AJ6		R157	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	BD
Q104	HTU0023CA	TRANSISTOR UMX1 (X1)		R158	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	AC
Q105	HTC0686CA	TRANSISTOR 2SC2462C (LC)		R159	RME1799CA	R,METAL 1/32W 150 OHM +-5%	
Q106	HTC0686CA	TRANSISTOR 2SC2462C (LC)		R160	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%	
Q107	HTK0126CZ	TRANSISTOR 2SK443-AJ6		R161	RMR4889CA	R,METAL 1/16W 4.7 KOHM +-0.5%	
Q108	HTC0686CA	TRANSISTOR 2SC2462C (LC)		R162	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
Q109	HTU0023CA	TRANSISTOR UMX1 (X1)		R163	RME1789CA	R,METAL 1/32W 22 OHM +-5%	AC
Q110	HTC0686CA	TRANSISTOR 2SC2462C (LC)		R164	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
Q111	HTC0969CA	TRANSISTOR 2SC4176 (B34)		R165	RME1838CA	R,METAL 1/32W 680 KOHM +-5%	
D101	HDD0168CA	DIODE DCC010		R166	RME1814CA	R,METAL 1/32W 2.7 KOHM +-5%	
D102	HDH0311CZ	DIODE HVU-359		R167	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
D103	HDH0311CZ	DIODE HVU-359		R168	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
D104	HDH0270CA	DIODE HVR100		R169		NOT USED	
D105	HDH0270CA	DIODE HVR100		R170	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
D106	HDD0168CA	DIODE DCC010		R171	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%	
R101	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R172	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R102	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R173	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R103	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R174		NOT USED	
R104	RME1797CA	R,METAL 1/32W 100 OHM +-5%		R175	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	
R105	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		R176	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
R106	RME1797CA	R,METAL 1/32W 100 OHM +-5%		R177	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	
R107		NOT USED		R178	RME1806CA	R,METAL 1/32W 560 OHM +-5%	
R108	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC	R179		NOT USED	
R109	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R180	RME1805CA	R,METAL 1/32W 470 OHM +-5%	
R110	RME2000CA	R,METAL 1/32W 180 KOHM +-5%		R181	RME1784CA	R,METAL 1/32W 0 OHM +-5%	
R111	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	AC	R182	RME1806CA	R,METAL 1/32W 560 OHM +-5%	
R112	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%	AC	R183	RME1784CA	R,METAL 1/32W 0 OHM +-5%	AC
R113	RME1413CA	R,METAL 1/10W 0 OHM		R184	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	BD
R114	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R185	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	BD
R115	RME1827CA	R,METAL 1/32W 33 KOHM +-5%	AC	R186	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	AC
R116	RMR4930CA	R,METAL 1/16W 6.8 KOHM +-0.5%		R187	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R117	RME1821CA	R,METAL 1/32W 10 KOHM +-5%		R188	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R118	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		R189	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R119	RMR4168CA	R,METAL 1/16W 8.2 KOHM +-0.5%	AC	R190		NOT USED	
R120	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%		R191	RME1784CA	R,METAL 1/32W 0 OHM +-5%	BD
R121	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R192	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R122	RME1814CA	R,METAL 1/32W 2.7 KOHM +-5%		R193	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R123	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R194	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R124	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		R195	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R125	RME1814CA	R,METAL 1/32W 2.7 KOHM +-5%		R196	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	
R126	RME1413CA	R,METAL 1/10W 0 OHM		R197	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	
R127	RME1413CA	R,METAL 1/10W 0 OHM		R198	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	
R128	RME1413CA	R,METAL 1/10W 0 OHM	ABC	R199		NOT USED	
R129	RME1413CA	R,METAL 1/10W 0 OHM	B	R200	RME1813CA	R,METAL 1/32W 2.2 KOHM +-5%	
R130	RME1413CA	R,METAL 1/10W 0 OHM		R201	RMR4911CA	R,METAL 1/16W 3.9 KOHM +-0.5%	
				R202	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	
				R203	RME1797CA	R,METAL 1/32W 100 OHM +-5%	
				R204	RME1815CA	R,METAL 1/32W 3.3 KOHM +-5%	

SG UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
R205	RME1816CA	R,METAL 1/32W 3.9 KOHM +-5%		C131	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R206	RME1818CA	R,METAL 1/32W 5.6 KOHM +-5%		C132	CCG0554CA	C,CERAMIC 50 V 100 PF+-5%	AC
R207	RME1784CA	R,METAL 1/32W 0 OHM +-5%	BD	C133	CCG0580CA	C,CERAMIC 50 V 470 PF+-10%	
R208	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C134	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R209	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C135		NOT USED	
R210	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C136	CCG0575CA	C,CERAMIC 25 V10000 PF+-10%	
R211	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C137	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	AC
R212	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C138	CCG0563CA	C,CERAMIC 50 V 27 PF+-5%	AC
R213	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C139	CSS0170CA	C,TA ELYC 16 V 3.3 UF+-20%	
R214	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C140	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R215	RME1835CA	R,METAL 1/32W 220 KOHM +-5%		C141	CSS0148CA	C,TA ELYC 35 V 0.1 UF+-20%	
R216	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%		C142	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R217	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C143	CCG0587CA	C,CERAMIC 50 V 330 PF+-5%	
R218	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%		C144	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R219	RME1814CA	R,METAL 1/32W 2.7 KOHM +-5%		C145	CCG0575CA	C,CERAMIC 25 V10000 PF+-10%	
R220	RME1807CA	R,METAL 1/32W 680 OHM +-5%		C146	CCG0554CA	C,CERAMIC 50 V 100 PF+-5%	
R221	RME1807CA	R,METAL 1/32W 680 OHM +-5%		C147	CCG0574CA	C,CERAMIC 50 V 1000 PF+-10%	
R222	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C148	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R223	RME1809CA	R,METAL 1/32W 1 KOHM +-5%		C149	CSM0022CA	C,TA ELYC 16 V 4.7 UF+-20%	
R224	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C150	CCG0574CA	C,CERAMIC 50 V 1000 PF+-10%	BD
R225		NOT USED		C151	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%	
R226	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C152	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R227	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C153	CCG0574CA	C,CERAMIC 50 V 1000 PF+-10%	
R228	RME1797CA	R,METAL 1/32W 100 OHM +-5%		C154	CAM0034CA	C,TA ELYC 10 V 10 UF+-20%	BD
R229	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C155	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R230	RME2260CA	R,METAL 1/32W 75 OHM +-5%		C156	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R231	RME2260CA	R,METAL 1/32W 75 OHM +-5%		C157	CCG0575CA	C,CERAMIC 25 V10000 PF+-10%	
R232	RME1833CA	R,METAL 1/32W 100 KOHM +-5%		C158	CCG0575CA	C,CERAMIC 25 V10000 PF+-10%	
R233	RMR4889CA	R,METAL 1/16W 4.7 KOHM +-0.5%		C159	CSX0166CY	C,TA ELYC 16 V 10 UF+-20%	
R234		NOT USED		C160	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R235	RMR4860CA	R,METAL 1/16W 10 KOHM +-0.5%		C161	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
RZ101	RZA0416CA	R,BLOCK MNR14-E0AB-J-101		C162	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%	
RZ102		NOT USED		C163	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R236	RME1784CA	R,METAL 1/32W 0 OHM +-5%	BD	C164	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R237	RME1784CA	R,METAL 1/32W 0 OHM +-5%		C165	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
RV101	RNS0015CY	VR,METAL ST-4G 2 KOHM		C166	CSM0022CA	C,TA ELYC 16 V 4.7 UF+-20%	
R163	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	BD	C167	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R238		NOT USED		C168		NOT USED	
R239	RME1784CA	R,METAL 1/32W 0 OHM +-5%	BD	C169	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
R119	RMR4130CA	R,METAL 1/10W 9.09KOHM +-1%	BD	C170		NOT USED	
C101	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%		C171	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C102	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%		C172	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C103	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		C173		NOT USED	
C104	CSS0148CA	C,TA ELYC 35 V 0.1 UF+-20%		C174		NOT USED	
C105	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		C175	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%	
C106	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%		C176	CCG0574CA	C,CERAMIC 50 V 1000 PF+-10%	
C107	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		C177	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C108	CCG0568CA	C,CERAMIC 50 V 68 PF+-5%		C178	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C109	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		C179	CCG9263CA	C,CERAMIC 50 V 22 PF+-5%	BD
C110	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	AC	C180	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	
C111	CCG0569CA	C,CERAMIC 50 V 82 PF+-5%		C132	CCG0580CA	C,CERAMIC 50 V 470 PF+-10%	BD
C112	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%	AC	C138	CCG0587CA	C,CERAMIC 50 V 330 PF+-5%	BD
C113	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%		CV101	CVT0052CD	C,VARIABLE TZBX4N100BA110T00	
C114	CCG0554CA	C,CERAMIC 50 V 100 PF+-5%		L101	TLL0359CA	COIL LQH3C2R2M04 (2.2UH)	CD
C115	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		L104	TLL0359CA	COIL LQH3C2R2M04 (2.2UH)	CD
C116	CSS0148CA	C,TA ELYC 35 V 0.1 UF+-20%		L101	TLL0362CA	COIL LQH3C220K04 (22UH)	AB
C117	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		L102	TLL0362CA	COIL LQH3C220K04 (22UH)	
C118	CCG0580CA	C,CERAMIC 50 V 470 PF+-10%		L103	TLL0362CA	COIL LQH3C220K04 (22UH)	
C119	CCG0575CA	C,CERAMIC 25 V10000 PF+-10%		L104	TLL0362CA	COIL LQH3C220K04 (22UH)	AB
C120	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		L105	TLL0362CA	COIL LQH3C220K04 (22UH)	
C121	CCG0556CA	C,CERAMIC 50 V 120 PF+-5%		L106	TLL0362CA	COIL LQH3C220K04 (22UH)	
C122	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		L107	TLL0362CA	COIL LQH3C220K04 (22UH)	
C123	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		T101	AFA0017CA	FIL ACM3225-102-2P	
C124	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		T102	AFA0017CA	FIL ACM3225-102-2P	
C125	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		TH101	HDZ0043	THERMISTOR 112-101-2 (100OHM)	BD
C126	CSS0148CA	C,TA ELYC 35 V 0.1 UF+-20%		TH102	HDX0065	THERMISTOR 112-103-2	
C127		NOT USED		FL101	AFL0097CD	FIL LC-0406 (SC FILTER-N)	AC
C128	CCG0575CA	C,CERAMIC 25 V10000 PF+-10%		FL101	AFL0096CD	FIL LC-0405 (SC FILTER-P)	BD
C129	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%		X101	AAF0021CJ	XTAL FCXV-01 14.31818 MHZ	AC
C130	CSX0166CY	C,TA ELYC 16 V 10 UF+-20%					

SG UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION			
X101	AAF0022CJ	XTAL	FCXV-01	17.734475MHZ	BD
X102	AAA0002	XTAL	AT-51A	14.31818 MHZ	AC
X102	8362537 G	XTAL	XC-0052	14.1875 MHZ	BD
TP101	ETS0174CA	CHECK,CHIP	EYF6C(2125)/RCT00000C001A		
TP102	ETS0174CA	CHECK,CHIP	EYF6C(2125)/RCT00000C001A		
TP103	ETS0174CA	CHECK,CHIP	EYF6C(2125)/RCT00000C001A		
CN101	JBD0176	CONNECTOR	DF13A-10P-1.25H(20)		
CN102	JBK0008	CONNECTOR	KX15-70KLD1L		

WIDE UNIT A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C:NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION		SYMBOL	PART CODE	DESCRIPTION	
IC202	IDT0412CA	IC.LOGIC TC7SH04F		R237	RMR4908CA	R.METAL 1/16W 560 OHM +-0.5%	
IC203	IDT0412CA	IC.LOGIC TC7SH04F		R238	RME1413CA	R.METAL 1/10W 0 OHM	
IC204	INE0090TA	IC EPF8452ATC100-4		R239	RME1413CA	R.METAL 1/10W 0 OHM	
IC205	IDS0804CX	IC.LOGIC SN74LV04APWR		R240	RME1413CA	R.METAL 1/10W 0 OHM	
IC206	INM0105CX	IC M66280FP		R241	RME1784CA	R.METAL 1/32W 0 OHM +-5%	
IC207	INM0105CX	IC M66280FP		R242	RME1784CA	R.METAL 1/32W 0 OHM +-5%	
IC208	INM0105CX	IC M66280FP		R243	RME1784CA	R.METAL 1/32W 0 OHM +-5%	
IC209	INM0105CX	IC M66280FP		R244	RMR4888CA	R.METAL 1/16W 3.3 KOHM +-0.5%	
IC210	IDS0764CX	IC.LOGIC SN74AHC04PWR		R245	RMR4910CA	R.METAL 1/16W 2.2 KOHM +-0.5%	
IC211	IDT0353CA	IC.LOGIC TC7S04FU(E5)		R246	RME1821CA	R.METAL 1/32W 10 KOHM +-5%	
IC212	ILT0178CX	IC.ANALOG TLC2932IPWR	AB	R247	RME1821CA	R.METAL 1/32W 10 KOHM +-5%	
IC214	IDT0353CA	IC.LOGIC TC7S04FU(E5)		R248	RMR4910CA	R.METAL 1/16W 2.2 KOHM +-0.5%	
IC215	IDT0357CA	IC.LOGIC TC7SU04FU(E6)		R249	RMR4888CA	R.METAL 1/16W 3.3 KOHM +-0.5%	
IC216	IDS0766CX	IC.LOGIC SN74AHC32PWR		R250	RMR4888CA	R.METAL 1/16W 3.3 KOHM +-0.5%	
IC217	IDS0765CX	IC.LOGIC SN74AHC08PWR		R251	RMR4888CA	R.METAL 1/16W 3.3 KOHM +-0.5%	
IC218	IDT0472CA	IC.LOGIC TC7S02FU(E3)		R252	RMR4910CA	R.METAL 1/16W 2.2 KOHM +-0.5%	
IC219	IDT0353CA	IC.LOGIC TC7S04FU(E5)		R253	RMR4910CA	R.METAL 1/16W 2.2 KOHM +-0.5%	
IC220	IDC0159TA	IC.LOGIC CXD2307R		R254	RMR4910CA	R.METAL 1/16W 2.2 KOHM +-0.5%	
IC221	IDC0159TA	IC.LOGIC CXD2307R		R255	RMR4888CA	R.METAL 1/16W 3.3 KOHM +-0.5%	
IC201	INE0100	IC EPC1441PC8 3WW1N	A	R256	RMR4910CA	R.METAL 1/16W 2.2 KOHM +-0.5%	
IC201	INE0131	IC EPC1441PC8 3WW0P	B	R257	RMR4888CA	R.METAL 1/16W 3.3 KOHM +-0.5%	
IC201	INE0128	IC EPG1441PC8 3KWON	C	R258	RME1784CA	R.METAL 1/32W 0 OHM +-5%	
IC201	INE0133	IC EPC1441PC8 3KW0P	D	R259	RME1784CA	R.METAL 1/32W 0 OHM +-5%	
Q201	HTA0386CA	TRANSISTOR 2SA1611 (M5)		R260	RME1413CA	R.METAL 1/10W 0 OHM	
Q202	HTA0387CA	TRANSISTOR 2SA1610 (Y34)		R261	RME1815CA	R.METAL 1/32W 3.3 KOHM +-5%	
Q203	HTA0387CA	TRANSISTOR 2SA1610 (Y34)		R262	RME1815CA	R.METAL 1/32W 3.3 KOHM +-5%	
Q204	HTA0387CA	TRANSISTOR 2SA1610 (Y34)		R263	RME1815CA	R.METAL 1/32W 3.3 KOHM +-5%	
Q205	HTA0387CA	TRANSISTOR 2SA1610 (Y34)		R264	RME1815CA	R.METAL 1/32W 3.3 KOHM +-5%	
Q206	HTA0387CA	TRANSISTOR 2SA1610 (Y34)		R265	RME1815CA	R.METAL 1/32W 3.3 KOHM +-5%	
Q207	HTA0387CA	TRANSISTOR 2SA1610 (Y34)		R266		NOT USED	
Q208	HTC0969CA	TRANSISTOR 2SC4176 (B34)		R267	RME1815CA	1/32W 3.3 KOHM +-5%	
Q209	HTC0969CA	TRANSISTOR 2SC4176 (B34)		R268	RME1784CA	R.METAL 1/32W 0 OHM +-5%	
Q210	HTC0969CA	TRANSISTOR 2SC4176 (B34)		R269		NOT USED	
Q211	HTC0969CA	TRANSISTOR 2SC4176 (B34)		R270		NOT USED	
Q212	HTC0968CA	TRANSISTOR 2SC4177 (L5)	BD	R271		NOT USED	
Q213	HTC0969CA	TRANSISTOR 2SC4176 (B34)		R272		NOT USED	
Q212	HTC0969CA	TRANSISTOR 2SC4176 (B34)	AC	R273	RME1784CA	R.METAL 1/32W 0 OHM +-5%	
R201	RME1810CA	R.METAL 1/32W 1.2 KOHM +-5%		R274	RMR4915CA	R.METAL 1/16W 220 OHM +-0.5%	
R202	RME1810CA	R.METAL 1/32W 1.2 KOHM +-5%		R275	RMR4915CA	R.METAL 1/16W 220 OHM +-0.5%	
R203	RME1797CA	R.METAL 1/32W 100 OHM +-5%		R276	RMR4915CA	R.METAL 1/16W 220 OHM +-0.5%	
R204	RME1797CA	R.METAL 1/32W 100 OHM +-5%		R277	RMR4915CA	R.METAL 1/16W 220 OHM +-0.5%	
R205	RME1413CA	R.METAL 1/10W 0 OHM		R278	RMR4915CA	R.METAL 1/16W 220 OHM +-0.5%	
R206	RME1803CA	R.METAL 1/32W 330 OHM +-5%		R279	RMR4915CA	R.METAL 1/16W 220 OHM +-0.5%	
R207	RME1833CA	R.METAL 1/32W 100 KOHM +-5%		R280	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R208	RME1803CA	R.METAL 1/32W 330 OHM +-5%		R281	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R209	RME1784CA	R.METAL 1/32W 0 OHM +-5%		R282	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R210	RMR4924CA	R.METAL 1/16W 2.7 KOHM +-0.5%	ACD	R283	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R210	RMR4929CA	R.METAL 1/16W 1.2 KOHM +-0.5%	B	R284	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R211		NOT USED		R285	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R212	RME1815CA	R.METAL 1/32W 3.3 KOHM +-5%		R286	RME1797CA	R.METAL 1/32W 100 OHM +-5%	
R213	RMR4900CA	R.METAL 1/16W 1.5 KOHM +-0.5%	ACD	R287	RME1797CA	R.METAL 1/32W 100 OHM +-5%	
R213	RMR4907CA	R.METAL 1/16W 470 OHM +-0.5%	B	R288	RME1797CA	R.METAL 1/32W 100 OHM +-5%	
R214	RME1784CA	R.METAL 1/32W 0 OHM +-5%		R289	RME1797CA	R.METAL 1/32W 100 OHM +-5%	
R215	RME1797CA	R.METAL 1/32W 100 OHM +-5%		R290	RME1797CA	R.METAL 1/32W 100 OHM +-5%	
R216	RME1789CA	R.METAL 1/32W 22 OHM +-5%		R291	RME1797CA	R.METAL 1/32W 100 OHM +-5%	
R217	RME1784CA	R.METAL 1/32W 0 OHM +-5%		R292	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R218	RME1817CA	R.METAL 1/32W 4.7 KOHM +-5%		R293	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R219	RME1784CA	R.METAL 1/32W 0 OHM +-5%		R294	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R220	RME1797CA	R.METAL 1/32W 100 OHM +-5%		R295	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R221	RME1784CA	R.METAL 1/32W 0 OHM +-5%		R296	RME1814CA	R.METAL 1/32W 2.7 KOHM +-5%	BD
R226	RME1814CA	R.METAL 1/32W 2.7 KOHM +-5%		R296	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	AC
R227	RME1815CA	R.METAL 1/32W 3.3 KOHM +-5%		R297	RME1819CA	R.METAL 1/32W 6.8 KOHM +-5%	
R228	RME1413CA	R.METAL 1/10W 0 OHM		R298	RME1793CA	R.METAL 1/32W 47 OHM +-5%	
R229		NOT USED		R299	RME1793CA	R.METAL 1/32W 47 OHM +-5%	
R230	RME1839CA	R.METAL 1/32W 1 MOHM +-5%		R300	RME1793CA	R.METAL 1/32W 47 OHM +-5%	
R231	RME1784CA	R.METAL 1/32W 0 OHM +-5%		R301	RME1793CA	R.METAL 1/32W 47 OHM +-5%	
R232	RME1784CA	R.METAL 1/32W 0 OHM +-5%		R302	RME1793CA	R.METAL 1/32W 47 OHM +-5%	
R233	RME1797CA	R.METAL 1/32W 100 OHM +-5%		R303	RME1793CA	R.METAL 1/32W 47 OHM +-5%	
R234		NOT USED		R304		NOT USED	
R235	RME1784CA	R.METAL 1/32W 0 OHM +-5%		R305		NOT USED	
R236		NOT USED		R306		NOT USED	
RZ201	RZA0416CA	R.BLOCK MNR14-E0AB-J-101					

WIDE UNIT

A;NTSC 16:9/4:3 B;PAL 16:9/4:3 C;NTSC 4:3 D;PAL 4:3

SYMBOL	PART CODE	DESCRIPTION	
RZ202	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101
RZ203	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101
RZ204	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101
RZ205	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101
RZ206	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101
RZ207	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101
RZ208	RZA0416CA	R,BLOCK	MNR14-E0AB-J-101
RZ209	RZA0417CA	R,BLOCK	MNR14-E0AB-J-104
RZ210	RZA0417CA	R,BLOCK	MNR14-E0AB-J-104
RZ211	RZA0417CA	R,BLOCK	MNR14-E0AB-J-104
RZ212	RZA0417CA	R,BLOCK	MNR14-E0AB-J-104
RZ213	RZA0417CA	R,BLOCK	MNR14-E0AB-J-104
RZ214	RZA0417CA	R,BLOCK	MNR14-E0AB-J-104
RZ215	RZA0417CA	R,BLOCK	MNR14-E0AB-J-104
RZ216	RZA0417CA	R,BLOCK	MNR14-E0AB-J-104
C201	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C202	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%
C203	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C204	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C205	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C206	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C207	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C208	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C209	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C210	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C211	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C212	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C213	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C214	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C215	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C216	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C217	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C218	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%
C219	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C220	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C221	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C222	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C223	CSS0176CA	C,TA ELYC	35 V 1 UF+-20%
C224	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C225	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C226	CEU0077CY	C,AL ELYC	6.3V 47 UF+-20%
C228	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C229	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C230	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%
C231	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C232	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C233	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C234	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%
C235	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C236	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C237	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C238	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C239	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C240	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C241	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C242	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C243	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C244	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C245	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C246	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C247	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C248	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%
C249	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C250	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C251	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C252	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%
C253	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C254	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C255	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C256	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C257	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C258	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%

SYMBOL	PART CODE	DESCRIPTION	
C259	CSX0166CY	C,TA ELYC	16 V 10 UF+-20%
C260	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C261	CCG0689CA	C,CERAMIC	16 V22000 PF+-10%
C262	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
C263	CCG0678CA	C,CERAMIC	16 V 0.1 UF+80-20%
L201	TLL0362CA	COIL	LQH3C220K04 (22UH)
L202	TLL0362CA	COIL	LQH3C220K04 (22UH)
L203	TLL0362CA	COIL	LQH3C220K04 (22UH)
L204		NOT USED	
L205	TLL0362CA	COIL	LQH3C220K04 (22UH)
L206	TLL0362CA	COIL	LQH3C220K04 (22UH)
T201	AFA0017CA	FIL	ACM3225-102-2P
T202	AFA0017CA	FIL	ACM3225-102-2P
T203	AFA0017CA	FIL	ACM3225-102-2P
T204	AFA0017CA	FIL	ACM3225-102-2P
T205	AFA0017CA	FIL	ACM3225-102-2P
T206	AFA0017CA	FIL	ACM3225-102-2P
CN201	JBF0096	CONNECTOR	FX6-80P-0.8SV1
CN202	JBF0088	CONNECTOR	FX6-40S-0.8SV2
CN203	JBF0094	CONNECTOR	FX6-80S-0.8SV2
CN204	JBF0096	CONNECTOR	FX6-80P-0.8SV1

AB

MIC UNIT

Symbol	Parts Code	Description	Remark
IC301	IDT0403CX	IC, LOGIC TC74HC4053AFT(EL)	
IC302	IDT0403CX	IC, LOGIC TC74HC4053AFT(EL)	
IC303	ILN0083MA	IC, ANALOG NJM5532M	
IC304	ILT0193CA	IC, ANALOG TA75S558F	
Q301	HTC0990CA	TRANSISTOR 2SC3360(N17)	
Q302	HTC0990CA	TRANSISTOR 2SC3360(N17)	
Q303	HTK0239CZ	TRANSISTOR 2SK663-Q	
Q304		Not Used	
D301	HDD0167CA	DIODE DCB010	
D302	HDD0167CA	DIODE DCB010	
R301	RME1801CA	R, METAL 1/32W 220 OHM +5%	
R302	RME1801CA	R, METAL 1/32W 220 OHM +5%	
R303	RMR4172CA	R, METAL 1/16W 100 KOHM +0.5%	
R304	RMR4172CA	R, METAL 1/16W 100 KOHM +0.5%	
R305	RMR4890CA	R, METAL 1/16W 5.6 KOHM +0.5%	
R306	RME1821CA	R, METAL 1/32W 10 KOHM +5%	
R307	RME1831CA	R, METAL 1/32W 68 KOHM +5%	
R308	RME1831CA	R, METAL 1/32W 68 KOHM +5%	
R309	RME1785CA	R, METAL 1/32W 10 OHM +5%	
R310	RME1785CA	R, METAL 1/32W 10 OHM +5%	
R311	RMR4926CA	R, METAL 1/16W 1.8 KOHM +0.5%	
R312	RMR4923CA	R, METAL 1/16W 270 OHM +0.5%	
R313	RME1784CA	R, METAL 1/32W 0 OHM +5%	
R314	RMR4908CA	R, METAL 1/16W 560 OHM +0.5%	
R315	RME1809CA	R, METAL 1/32W 1 KOHM +5%	
R316	RME1809CA	R, METAL 1/32W 1 KOHM +5%	
R317	RMR4916CA	R, METAL 1/16W 150 OHM +0.5%	
R318	RME1785CA	R, METAL 1/32W 10 OHM +5%	
R319	RMR4916CA	R, METAL 1/16W 150 OHM +0.5%	
R320	RMR4901CA	R, METAL 1/16W 22 KOHM +0.5%	
R321	RMR4930CA	R, METAL 1/16W 6.8 KOHM +0.5%	
R322	RMR4930CA	R, METAL 1/16W 6.8 KOHM +0.5%	
R323	RME1825CA	R, METAL 1/32W 22 KOHM +5%	
R324	RME1825CA	R, METAL 1/32W 22 KOHM +5%	
R325	RME1833CA	R, METAL 1/32W 100 KOHM +5%	
R326	RME1809CA	R, METAL 1/32W 1 KOHM +5%	
R327	RME1833CA	R, METAL 1/32W 100 KOHM +5%	
R328	RME1821CA	R, METAL 1/32W 10 KOHM +5%	
R329	RME1833CA	R, METAL 1/32W 100 KOHM +5%	
R330	RME1784CA	R, METAL 1/32W 0 OHM +5%	
R331	RME1827CA	R, METAL 1/32W 33 KOHM +5%	
R332	RME1827CA	R, METAL 1/32W 33 KOHM +5%	
R333	RME1784CA	R, METAL 1/32W 0 OHM +5%	
R334	RME1784CA	R, METAL 1/32W 0 OHM +5%	
R335	RME1814CA	R, METAL 1/32W 2.7 KOHM +5%	
R336	RME1811CA	R, METAL 1/32W 1.5 KOHM +5%	
R337	RME1821CA	R, METAL 1/32W 10 KOHM +5%	
R338	RME1839CA	R, METAL 1/32W 1 MOHM +5%	
R339		Not Used	
R340		Not Used	
R341	RMR4171CA	R, METAL 1/16W 82 KOHM +0.5%	
R342	RMR4928CA	R, METAL 1/16W 680 OHM +0.5%	
R343	RMR4923CA	R, METAL 1/16W 270 OHM +0.5%	
R344	RMR4928CA	R, METAL 1/16W 680 OHM +0.5%	
R345	RMR4923CA	R, METAL 1/16W 270 OHM +0.5%	
R346		Not Used	
R347		Not Used	
R348	RME1784CA	R, METAL 1/32W 0 OHM +5%	
R349	RME1413CA	R, METAL 1/10W 0 OHM	
R350	RME1413CA	R, METAL 1/10W 0 OHM	
R351	RME1413CA	R, METAL 1/10W 0 OHM	
R352	RME1413CA	R, METAL 1/10W 0 OHM	
R353	RME1413CA	R, METAL 1/10W 0 OHM	
R354	RME1413CA	R, METAL 1/10W 0 OHM	
RV301	RNE0113CD	VR, METAL EVM-7JGA00B23 (2K)	
L301	RME0860CA	R, METAL 1/8W 47 OHM +5%	
L302	RME0860CA	R, METAL 1/8W 47 OHM +5%	
C301	CEU0075CX	C, AL ELYC 6.3V 100 UF+20%	
C302	CEU0075CX	C, AL ELYC 6.3V 100 UF+20%	
C303	CEK0287	C, AL ELYC 63 V 2.2 UF+20%	
C304	CEK0287	C, AL ELYC 63 V 2.2 UF+20%	
C305		Not Used	
C306	CEU0069CY	C, AL ELYC 16 V 10 UF+20%	
C311	CQM0468	C, PLASTIC 100 V 0.22UF+10%	
C312	CQM0468	C, PLASTIC 100 V 0.22UF+10%	
C313	CQA0125VA	C, PLASTIC 50 V 4700 PF+10%	
C314	CQA0125VA	C, PLASTIC 50 V 4700 PF+10%	
C321	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C322	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C323	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C324	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C325	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C326	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C327	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C328	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C329	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C330	CCG0678CA	C, CERAMIC 16 V 0.1 UF+80-20%	
C331	CCG0554CA	C, CERAMIC 50 V 100 PF+5%	

Symbol	Parts Code	Description	Remark
C332	CCG0554CA	C, CERAMIC 50 V 100 PF+5%	
C333	CCG0558CA	C, CERAMIC 50 V 150 PF+5%	
C334	CCG0558CA	C, CERAMIC 50 V 150 PF+5%	
C335	CQA0129VA	C, PLASTIC 50 V22000 PF+10%	
L301		Not Used	
L302		Not Used	
L303	TLL0362CA	COIL LQH3C220K04 (22UH)	
T301	TTX0076	XFMR 12T03 (AUDIO)	
CN301	JBD0194	CONNECTOR DF13-5P-1.25V(20)	
CN302	JBD0195	CONNECTOR DF13-14P-1.25V(20)	

REAR UNIT

Symbol	Parts Code	Description	Remark
R401	RME1784CA	R, METAL 1/32W 0 OHM +5%	
R402	RME1784CA	R, METAL 1/32W 0 OHM +5%	
R403	RME1793CA	R, METAL 1/32W 47 OHM +5%	
R404	RME1793CA	R, METAL 1/32W 47 OHM +5%	
R405	RME1793CA	R, METAL 1/32W 47 OHM +5%	
R406	RME1793CA	R, METAL 1/32W 47 OHM +5%	
R407	RME0912CA	R, METAL 1/8W 0 OHM	
R408	RME0912CA	R, METAL 1/8W 0 OHM	
RZ401	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ402	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ403	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ404	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ405	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ406	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ407	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ408	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ409	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ410	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
RZ411	RZA0415CA	R, BLOCK MNR14-E0AB-J-470	
FL401	AFD0055	FIL DSS306-55B471M100	
FL402	AFN0014CD	FIL NFM41R10C222	
FL403	AFN0014CD	FIL NFM41R10C222	
FL404	AFN0014CD	FIL NFM41R10C222	
FL405	AFN0014CD	FIL NFM41R10C222	
T401	AFA0017CA	FIL ACM3225-102-2P	
T402	AFA0017CA	FIL ACM3225-102-2P	
T403	AFA0017CA	FIL ACM3225-102-2P	
T404	AFA0017CA	FIL ACM3225-102-2P	
T405	AFA0017CA	FIL ACM3225-102-2P	
T406	AFA0017CA	FIL ACM3225-102-2P	
F5	EGF0134	CORE HF70SH20X0.7X12	
F6	EGF0134	CORE HF70SH20X0.7X12	
CN401	JBK0023	CONNECTOR KX15-80KLN1L	
CN402	JBP0522	CONNECTOR PCF-128MDT	
CN403	JBX2836MA	CONNECTOR 30FLZ-SM1	
CN404	JBX2836MA	CONNECTOR 30FLZ-SM1	
P15	BBH0151	WIRE, RIBBN SML2CD-30*45 (8597306-AG)	
P16	BBH0151	WIRE, RIBBN SML2CD-30*45 (8597306-AG)	

CARD UNIT

Symbol	Parts Code	Description	Remark
R1	RME1450CA	R, METAL 1/10W 10 KOHM +5%	
R2	RME0912CA	R, METAL 1/8W 0 OHM	
R3	RME0912CA	R, METAL 1/8W 0 OHM	
C1	CCG9295CA	C, CERAMIC 25 V 0.1 UF+80-20%	
C2	CCG9295CA	C, CERAMIC 25 V 0.1 UF+80-20%	
CN1	JBX2818MA	CONNECTOR 26FLZ-SM1	
CN2	JBX0049	CONNECTOR JC26-BB	
	JBX0050	CONNECTOR JC26-FSRH	

FRT1 UNIT

Symbol	Parts Code	Description	Remark
S901	SST0127	SW, TOGGLE M-2018	
S902	SST0429	SW, TOGGLE M-2019	
S903	SST0436	SW, TOGGLE M-2015	
CN901	JBD0178	CONNECTOR DF13A-15P-1.25H(20)	
CN902	JBIO216	CONNECTOR IL-Z-5P-S125T3-E	
CN903	JBD0173	CONNECTOR DF13A-5P-1.25H(20)	

FRT2 UNIT

Symbol	Parts Code	Description	Remark
S904	SSP0672	SW,PB SKHHBW	
RV901	RDR0594	VR,CARBON RK08H1110 10KOHMB	NTSC
P5	8651615 O	CABLE ASSY 8651615 O	
RV901	RDR0604	VR,CARBON RK08H1110 100KOHMB	PAL

SW1 UNIT

Symbol	Parts Code	Description	Remark
CN221	JBD0193	CONNECTOR DF13-9P-1.25DSA	
SW221	SST0440	SW,TOGGLE B-13AB	
SW222	SST0440	SW,TOGGLE B-13AB	
SW223	SST0440	SW,TOGGLE B-13AB	
SW224	SST0441	SW,TOGGLE B-18AB	

SW2 UNIT

Symbol	Parts Code	Description	Remark
CN241	JBD0191	CONNECTOR DF13-3P-1.25DSA	
SW241	SST0440	SW,TOGGLE B-13AB	

MIC CN UNIT

Symbol	Parts Code	Description	Remark
R261	RME1413CA	R,METAL 1/10W 0 OHM	
R262	RME1413CA	R,METAL 1/10W 0 OHM	
R263	RME1413CA	R,METAL 1/10W 0 OHM	
CN261	JBD0192	CONNECTOR DF13-5P-1.25DSA	
CN262	JMH0270	CON,MULTI HA16PRM-3SE	
C261	CCG9393CA	C,CERAMIC 50 V33000 PF+-10%	
C262	CCG9429CA	C,CERAMIC 500 V 100 PF+-5%	
C263	CCG9429CA	C,CERAMIC 500 V 100 PF+-5%	

LENS UNIT

Symbol	Parts Code	Description	Remark
CN301	JBD0151	CONNECTOR DF13-12P-1.25DSA	
CN302	JMH0096	CON,MULTI HR10A-10R-12SB(01)	
R301	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R302	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R303	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R304	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R305	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R306	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R307	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R308	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R309	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
R310	RME1422CA	R,METAL 1/10W 47 OHM +-5%	
C301	CCG9292CA	C,CERAMIC 50 V10000 PF+-10%	

BNC UNIT

Symbol	Parts Code	Description	Remark
R201	RME1413CA	R,METAL 1/10W 0 OHM	
R202	RME1413CA	R,METAL 1/10W 0 OHM	
R203	RME1413CA	R,METAL 1/10W 0 OHM	
R205	RME1413CA	R,METAL 1/10W 0 OHM	
R207	RME1414CA	R,METAL 1/10W 10 OHM +-5%	
R208	RME1414CA	R,METAL 1/10W 10 OHM +-5%	
R209	RME1413CA	R,METAL 1/10W 0 OHM	
C201	CCG9292CA	C,CERAMIC 50 V10000 PF+-10%	
C202	CCG9274CA	C,CERAMIC 50 V 100 PF+-5%	
C203	CCG9274CA	C,CERAMIC 50 V 100 PF+-5%	
C204		Not Used	
CN201	JBD0214	CONNECTOR DF13-10P-1.25DS(20)	
CN202	JMH0111	CON,MULTI HR10A-7R-4SB(01)	
CN203	JHH0011	CON,COAX HXC0324-01-310	
CN204	JHH0011	CON,COAX HXC0324-01-310	
CN205	JHH0011	CON,COAX HXC0324-01-310	

CHASSIS

Symbol	Parts Code	Description	Remark
	JMR0257	CON,MULTI R05-R8F	
P4	8651615G	CABLE ASSY 8651615 G	
P7	8651615E	CABLE ASSY 8651615 E	
P8	8659007D	CABLE ASSY DF13-14S/DF13-14S L=170	
P6	8659007C	CABLE ASSY DF13-5S/DF13-5S L=60	
P9	8659007A	CABLE ASSY DF13-12S/8S 3S L=115/150	
P10	8659007B	CABLE ASSY DF13-10S/DF13-10S L=160	
P3	8659007F	CABLE ASSY DF13-12S/DF13-12S L=170	
P14	BBH0130	WIRE,RIBBN SML2CD-32*110 (8597306-B)	
P11	8597306Z	WIRE,RIBBN SML2CD-26X100	
F4	EGF0134	CORE HF70SH20X0.7X12	
F7	EGF0135	CORE ZCAT 1518-0730	

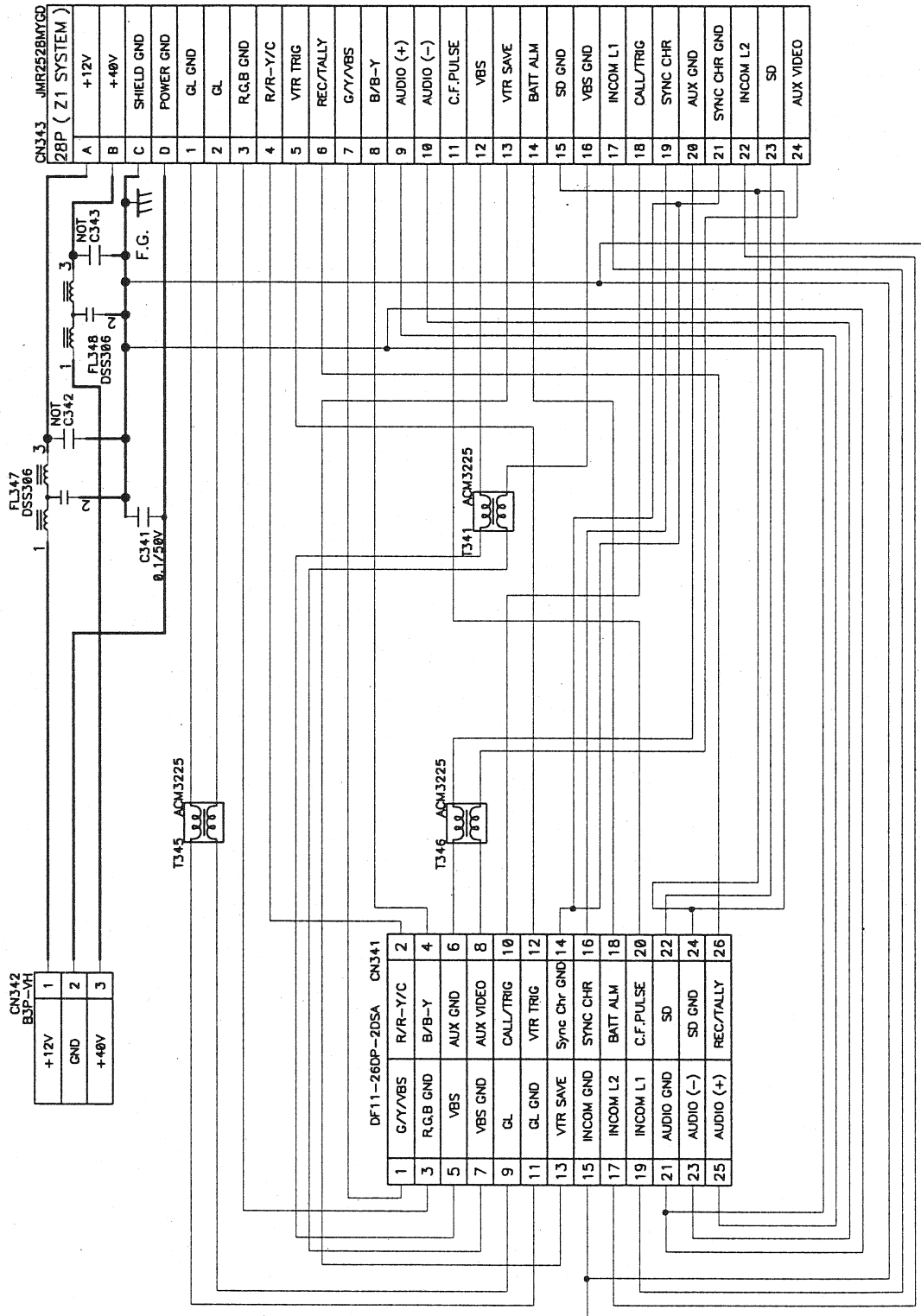
ACCESSORY

Symbol	Parts Code	Description	Remark
	EFG0683	FUSE TSC UL,CSA 125V 3.0A	

Camera Adaptor CA-Z31, CA-Z32 SERVICE MANUAL

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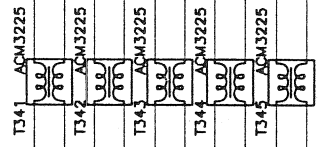
Hitachi Kokusai Electric Inc.



**CA-Z31
28PIN
SCHEMATIC DIAGRAM**

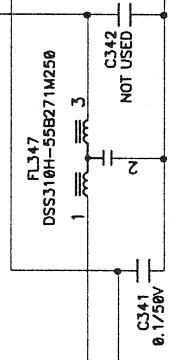
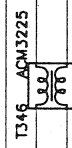
CN343
SRCB2A21-26P-TH-N1
26P (Z2 SYSTEM)

1	VBS
2	VBS GND
3	G/Y/VBS GND
4	G/Y/VBS Y
5	R/R-Y/C
6	R/R-Y/C GND
7	B/B-Y
8	B/B-Y GND
9	MIC (H)
10	MIC (C)
11	MIC GND
12	PROMPT GND
13	PROMPT VIDEO
14	INTER LOCK
15	INCOM 2
16	GL
17	INCOM GND
18	AUX VIDEO
19	AUX GND
20	INCOM 1
21	GL GND
22	SD2
23	SD1
24	SD GND
A	+150V
B	POWER GND



CN341 DF11-240P-2DSA

1	VBS	R* GND	2
3	VBS GND	R*	4
5	C*	B* GND	6
7	C* GND	B*	8
9	GL	AUX GND	10
11	GL GND	AUX VIDEO	12
13	INCOM1	PROMPT VIDEO	14
15	INCOM2	PROMPT GND	16
17	INCOM GND	INTER LOCK	18
19	MIC(GND)	SD1	20
21	MIC(C)	SD2	22
23	MIC(H)	SD GND	24



CN342 B3P-VH

+150V/12V	1
POWER GND	2
OPEN	3

777 F.G.

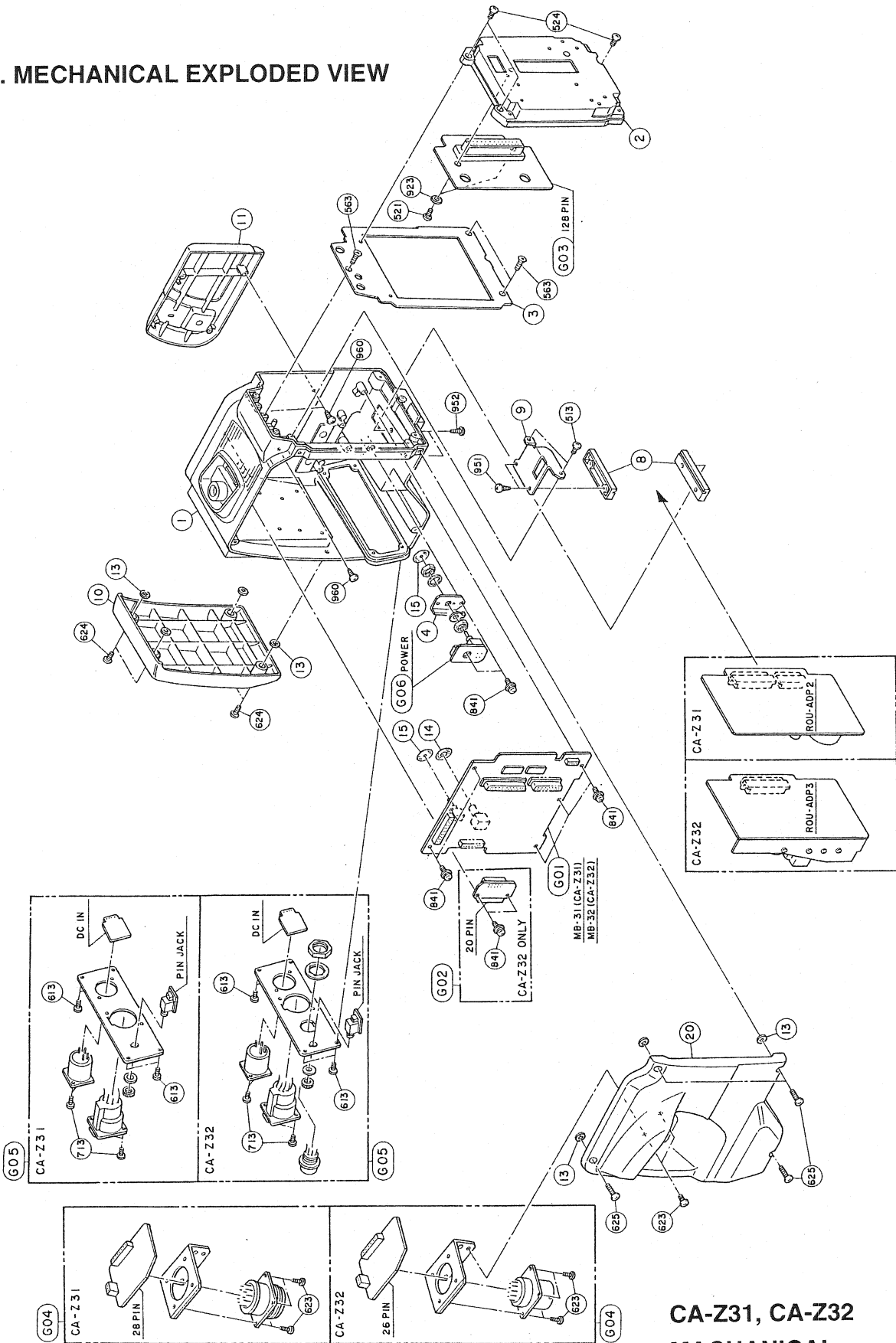
CA-Z32
26PIN UNIT
SCHEMATIC DIAGRAM

3. MECHANICAL PARTS LIST

CA-Z31/CA-Z32

Symbol	Part Code	Description	Q'ty
1	8652791D	MAIN FRAME ASSY	1
2	2156766A	FRONT CASE	1
3	3403876A	FRONT PANEL	1
4	8649747A	SW BRACKET	1
8	8524932A	GUIDE RAIL	2
9	8661619A	RAIL BRACKET	1
10	2159064A	REAR COVER	1
11	8652791E	FACE PAD ASSY	1
13	8651916A	WASHER	8
20	8652794D	RIGHT COVER ASSY	1
513	XCA6006	SCREW BIND HD M2.6X6 NIP	2
521	XCA1369	SCREW BIND HD M3X4 NIP	2
524	XCA6308	SCREW BIND HD M3X8 NIP	3
563	XCA7006	SCREW FLAT HD M2.6X6 NIP	3
613	XCA1656	SCREW BIND HD M2.6X6 DNIP	4
623	XCA1817	SCREW BIND HD M3X6 DNIP	4
624	XCA1818	SCREW BIND HD M3X8 DNIP	4
625	XCA1820	SCREW BIND HD M3X10 DNIP	4
713	XCA0059	SCREW PAN HD M2.6X6 NIP	4
841	XCA0689	SCREW W/W,SW SEMS M3X6 NIP	10
923	XCA1855	WASHER NIP	2
951	XCA1910	SCREW TAPPING 2.6X6 DNIP	2
952	XCA1911	SCREW TAPPING 2.6X8 DNIP	2
960	8651995A	SCREW P-TIGHT M3X8 ZNP	4
G01	22E0044	MB-31 PCB (FOR CA-Z31)	1
G01	22E0045	MB-32 PCB (FOR CA-Z32)	1
G02	22E0046	20 PIN PCB (FOR CA-Z32)	1
G03	22E0047	128 PIN PCB	1
G04	24X0247	28 PIN PCB ASSY (FOR CA-Z31)	1
G04	24X0248	26 PIN PCB ASSY (FOR CA-Z32)	1
G05	24X0249	REAR PANEL ASSY (FOR CA-Z31)	1
G05	24X0250	REAR PANEL ASSY (FOR CA-Z32)	1
G06	22E0048	POWER PCB	1

4. MECHANICAL EXPLODED VIEW



**CA-Z31, CA-Z32
MECHANICAL
EXPLODED VIEW**

5. ELECTRICAL PARTS LIST

MB31 (CA-Z31)

SYMBOL	PART CODE	DESCRIPTION	SYMBOL	PART CODE	DESCRIPTION
IC101	ILN0131MA	IC,ANALOG NJM386BM	R156	RME1829CA	R,METAL 1/32W 47 KOHM +-5%
IC102	IDT0402CD	IC,LOGIC TC4W53FU	R157	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
IC103	IDH1215MA	IC,LOGIC HD14053BFP/MC14053BF	R158	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
IC105	ILN0088MA	IC,ANALOG NJM741M	R159	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
IC107	IDT0384CD	IC,LOGIC TC7W74FU-TE12L	R160	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
IC108	ILN0039MA	IC,ANALOG NJM2903M	R161	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
IC110	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)	R162	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
IC201	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)	R163	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
IC202	ILA0194CX	IC,ANALOG AD8044AR-14-REEL7	R165	RME1784CA	R,METAL 1/32W 0 OHM +-5%
Q101	HTC0686CA	TRANSISTOR 2SC2462C (LC)	R170	RME2260CA	R,METAL 1/32W 75 OHM +-5%
Q102	HTA0268CA	TRANSISTOR 2SA1122C (CC)	R173	RMR4139CA	R,METAL 1/16W 10 KOHM +-0.5%
Q103	HTC0686CA	TRANSISTOR 2SC2462C (LC)	R174	RMR4139CA	R,METAL 1/16W 10 KOHM +-0.5%
Q104	HTA0268CA	TRANSISTOR 2SA1122C (CC)	R175	RMR4330CA	R,METAL 1/16W 47 OHM +-0.5%
Q111	HTI0008CA	TRANSISTOR IMD3 (D3)	R176	RME1784CA	R,METAL 1/32W 0 OHM +-5%
Q112	HTD0247CZ	TRANSISTOR DTC124EUA (25)	R177	RME1809CA	R,METAL 1/32W 1 KOHM +-5%
Q114	HTD0247CZ	TRANSISTOR DTC124EUA (25)	R180	RME1434CA	R,METAL 1/10W 470 OHM +-5%
D107	HDH0230CA	DIODE,ZEN HZM5B (17)	R181	RME1434CA	R,METAL 1/10W 470 OHM +-5%
D108	HDH0230CA	DIODE,ZEN HZM5B (17)	R188	RME1784CA	R,METAL 1/32W 0 OHM +-5%
D109	HDD0167CA	DIODE DCB010	R189	RME1784CA	R,METAL 1/32W 0 OHM +-5%
D110	HDH0229CA	DIODE,ZEN HZM6C (21)	R190	RME1784CA	R,METAL 1/32W 0 OHM +-5%
D114	HDD0168CA	DIODE DCC010	R191	RME1784CA	R,METAL 1/32W 0 OHM +-5%
D115	HDD0167CA	DIODE DCB010	R192	RME1784CA	R,METAL 1/32W 0 OHM +-5%
D116	HND0001	DIODE,ZEN DAM1A24 (22.7-25.6V)	R200	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R101	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	R201	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R102	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	R202	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R103	RME1810CA	R,METAL 1/32W 1.2 KOHM +-5%	R203	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R104	RME1797CA	R,METAL 1/32W 100 OHM +-5%	R204	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R105	RME1797CA	R,METAL 1/32W 100 OHM +-5%	R205	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R106	RME1831CA	R,METAL 1/32W 68 KOHM +-5%	R206	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R107	RME1831CA	R,METAL 1/32W 68 KOHM +-5%	R207	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R108	RME1830CA	R,METAL 1/32W 56 KOHM +-5%	R208	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R109	RME1785CA	R,METAL 1/32W 10 OHM +-5%	R210	RMR4152CA	R,METAL 1/16W 100 OHM +-0.5%
R110	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	R211	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R111	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	R212	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R112	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	R213	RMR4163CA	R,METAL 1/16W 1.8 KOHM +-0.5%
R113	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	R214	RME1413CA	R,METAL 1/10W 0 OHM
R114	RME1785CA	R,METAL 1/32W 10 OHM +-5%	R215	RMR4152CA	R,METAL 1/16W 100 OHM +-0.5%
R115	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	R216	RMR4139CA	R,METAL 1/16W 10 KOHM +-0.5%
R116	RME1797CA	R,METAL 1/32W 100 OHM +-5%	R217	RMR4207CA	R,METAL 1/10W 75 OHM +-0.25%
R117	RME1784CA	R,METAL 1/32W 0 OHM +-5%	R218	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R118	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	R219	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R119	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%	R220	RMR4152CA	R,METAL 1/16W 100 OHM +-0.5%
R120	RME1784CA	R,METAL 1/32W 0 OHM +-5%	R221	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R121	RME1784CA	R,METAL 1/32W 0 OHM +-5%	R222	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R122	RME1784CA	R,METAL 1/32W 0 OHM +-5%	R223	RMR4163CA	R,METAL 1/16W 1.8 KOHM +-0.5%
R123	RME1784CA	R,METAL 1/32W 0 OHM +-5%	R224	RME1413CA	R,METAL 1/10W 0 OHM
R124	RME1784CA	R,METAL 1/32W 0 OHM +-5%	R225	RMR4152CA	R,METAL 1/16W 100 OHM +-0.5%
R125	RMR4166CA	R,METAL 1/16W 4.7 KOHM +-0.5%	R226	RMR4139CA	R,METAL 1/16W 10 KOHM +-0.5%
R126	RMR4166CA	R,METAL 1/16W 4.7 KOHM +-0.5%	R227	RMR4207CA	R,METAL 1/10W 75 OHM +-0.25%
R127	RMR4163CA	R,METAL 1/16W 1.8 KOHM +-0.5%	R228	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R128	RME1784CA	R,METAL 1/32W 0 OHM +-5%	R229	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R129	RME1839CA	R,METAL 1/32W 1 MOHM +-5%	R231	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R130	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	R232	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R131	RME1825CA	R,METAL 1/32W 22 KOHM +-5%	R233	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R132	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	R234	RME1413CA	R,METAL 1/10W 0 OHM
R133	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	R235	RMR4152CA	R,METAL 1/16W 100 OHM +-0.5%
R134	RME1809CA	R,METAL 1/32W 1 KOHM +-5%	R236	RMR4139CA	R,METAL 1/16W 10 KOHM +-0.5%
R135	RME1797CA	R,METAL 1/32W 100 OHM +-5%	R237	RMR4207CA	R,METAL 1/10W 75 OHM +-0.25%
R136	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	R238	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R137	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	R239	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R138	RME1797CA	R,METAL 1/32W 100 OHM +-5%	R241	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R139	RME1807CA	R,METAL 1/32W 680 OHM +-5%	R242	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R140	RME1807CA	R,METAL 1/32W 680 OHM +-5%	R243	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R141	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	R244	RME1413CA	R,METAL 1/10W 0 OHM
R142	RME1819CA	R,METAL 1/32W 6.8 KOHM +-5%	R245	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R143	RME1795CA	R,METAL 1/32W 68 OHM +-5%	R246	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R144	RME1795CA	R,METAL 1/32W 68 OHM +-5%	R247	RMR4207CA	R,METAL 1/10W 75 OHM +-0.25%
R145	RME1833CA	R,METAL 1/32W 100 KOHM +-5%	R260	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R146	RME1784CA	R,METAL 1/32W 0 OHM +-5%	R261	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R147	RME1829CA	R,METAL 1/32W 47 KOHM +-5%	R262	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R148	RME1420CA	R,METAL 1/10W 33 OHM +-5%	R263	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R151	RME1784CA	R,METAL 1/32W 0 OHM +-5%	R264	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R154	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	R265	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R155	RME1821CA	R,METAL 1/32W 10 KOHM +-5%	R266	RME1784CA	R,METAL 1/32W 0 OHM +-5%

MB31 (CA-Z31)

SYMBOL	PART CODE	DESCRIPTION
R267	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R268	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R269	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R270	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R271	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R272	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R273	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R274	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R275	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R276	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R277	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R278	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R279	RME1784CA	R,METAL 1/32W 0 OHM +-5%
RV102	RDR0590	VR,CARBON RK09K113-B5K LM1=15
C101	CCG9274CA	C,CERAMIC 50 V 100 PF+-5%
C102	CQE0219CA	C,PLASTIC 16 V47000 PF+-5%
C103	CSS0171CD	C,TA ELYC 16 V 10 UF+-20%
C104	CEL0125	C,AL ELYC 16 V 47 UF+-20%
C105	CEL0180	C,AL ELYC 25 V 330 UF+-20%
C106	CEL0127	C,AL ELYC 50 V 1 UF+-20%
C107	CEL0127	C,AL ELYC 50 V 1 UF+-20%
C108	CEU0069CY	C,AL ELYC 16 V 10 UF+-20%
C109	CEU0069CY	C,AL ELYC 16 V 10 UF+-20%
C110	CEU0070CX	C,AL ELYC 16 V 47 UF+-20%
C111	CEU0070CX	C,AL ELYC 16 V 47 UF+-20%
C112	CSM0021CA	C,TA ELYC 16 V 2.2 UF+-20%
C113	CEL0029	C,AL ELYC 50 V 22 UF+-20%
C115	CCG0562CA	C,CERAMIC 50 V 220 PF+-5%
C120	CCG9286CA	C,CERAMIC 50 V 1000 PF+-10%
C126	CCG9292CA	C,CERAMIC 50 V10000 PF+-10%
C127	CCG9292CA	C,CERAMIC 50 V10000 PF+-10%
C128	CCG9292CA	C,CERAMIC 50 V10000 PF+-10%
C130	CCE0121CA	C,CERAMIC 16 V 1 UF+80-20%
C131	CCE0121CA	C,CERAMIC 16 V 1 UF+80-20%
C132	CEU0076CY	C,AL ELYC 6.3V 22 UF+-20%
C133	CEU0076CY	C,AL ELYC 6.3V 22 UF+-20%
C134	CCE0121CA	C,CERAMIC 16 V 1 UF+80-20%
C135	CCE0121CA	C,CERAMIC 16 V 1 UF+80-20%
C140	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C141	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C143	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C144	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C145	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C147	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C148	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
G151	CEU0076CY	C,AL ELYC 6.3V 22 UF+-20%
G152	CEU0076CY	C,AL ELYC 6.3V 22 UF+-20%
C155	CEL0165	C,AL ELYC 25 V 470 UF+-20%
C201	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%
C202	CEU0077CY	C,AL ELYC 6.3V 47 UF+-20%
C203	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C204	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C205	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C206	CCG0678CA	C,CERAMIC 16 V 0.1 UF+80-20%
C211	CCG0553CA	C,CERAMIC 50 V 10 PF+-0.5PF
C221	CCG0553CA	C,CERAMIC 50 V 10 PF+-0.5PF
C231	CCG0553CA	C,CERAMIC 50 V 10 PF+-0.5PF
C241	CCG0553CA	C,CERAMIC 50 V 10 PF+-0.5PF
L104	TLL0362CA	COIL LQH3C220K04 (22UH)
L105	TLL0362CA	COIL LQH3C220K04 (22UH)
L111	TLL0362CA	COIL LQH3C220K04 (22UH)
L112	TLL0362CA	COIL LQH3C220K04 (22UH)
CN101	JBF0072MA	CONNECTOR FH12-30S-0.5SH
CN102	JBF0104MA	CONNECTOR FH12-33S-0.5SH
CN103	JBB0054	CONNECTOR B7B-PH
CN104	JBX2214	CONNECTOR 173279-3 (50P,PLUG ASSY-V)
CN105	JBD0088	CONNECTOR DF11-26DP-2DSA
CN106	JBB0115	CONNECTOR B3P-VH
CN107	JBX2458	CONNECTOR 174215-1 (30P,PLUG ASSY-V)
CN108	JBB0144	CONNECTOR B4B-EH
CN110	JBB0051	CONNECTOR B10B-PH
CN112	JBB0109	CONNECTOR B2P-VH
CN113	JBD0134	CONNECTOR DF3A-3P-2DSA
SW102	SST0370	SW.TOGGLE ATE1H-2M3-10

MB31 (CA-Z31)

SYMBOL	PART CODE	DESCRIPTION
SW102	SSY0680	BRACKET AZ0001
F101	EFG0683	FUSE TSC UL,CSA 125V 3.0A
	EFH0251	HLDR,FUSE H-0011-1

28PIN (CA-Z31)

SYMBOL	PART CODE	DESCRIPTION
C341	CCG9612CA	C,CERAMIC 50 V 0.1 UF+80-20%
C342	CCG9612CA	C,CERAMIC 50 V 0.1 UF+80-20%
C343		NOT USED
FL347	AFD0055	FIL DSS306-55B471M100
FL348	AFD0055	FIL DSS306-55B471M100
T341	AFA0017CA	FIL ACM3225-102-2P
T345	AFA0017CA	FIL ACM3225-102-2P
T346	AFA0017CA	FIL ACM3225-102-2P
CN341	JBD0088	CONNECTOR DF11-26DP-2DSA
CN342	JBB0115	CONNECTOR B3P-VH
CN343	JMJ0077	CON,MULTI JMR2528MYGD

CHASSIS (CA-Z31)

SYMBOL	PART CODE	DESCRIPTION
P1	BBH0151	WIRE,RIBBN SML2CD-30*45 (8597306-AG)
P2	BBH0142	WIRE,RIBBN SML2CD-33*45 (8597306-R)
P3	8659008 A	CABLE ASSY PHR-7/PHR-7 L=80
P5	8659008 B	CABLE ASSY DF11-26DS/DF11-26DS L=350
P6	8659008 D	CABLE ASSY VHR-3N/VHR-3N L=200
P7	8659008 E	CABLE ASSY EHR-4/EHR-4 L=60
P8	8659008 F	CABLE ASSY PHR-10/4.2 L=140/150/150
CN422	JMH0213	CON,MULTI HA16PRH-5S

MB32 (CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
IC101	ILN0131MA	IC,ANALOG NJM386BM
IC102	ILN0141	IC,ANALOG NJU 211M
IC103	IDH1215MA	IC,LOGIC HD14053BFP/MC14053BF
IC104	HZA0011CD	PHOTO RLY AQV212S
IC105	ILN0131MA	IC,ANALOG NJM386BM
IC107	IDT0384CD	IC,LOGIC TC7W74FU-TE12L
IC108	ILN0039MA	IC,ANALOG NJM2903M
IC110	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)
IC201	IDT0403CX	IC,LOGIC TC74HC4053AFT(EL)
IC202	ILA0194CX	IC,ANALOG AD8044AR-14-REEL7
Q101	HTC0857CD	TRANSISTOR 2SC3515-O
Q102	HTC0857CD	TRANSISTOR 2SC3515-O
Q103	HTA0324CD	TRANSISTOR 2SA1384-O
Q104	HTK0218CY	TRANSISTOR 2SK1079
Q105	HTK0218CY	TRANSISTOR 2SK1079
Q106	HTK0218CY	TRANSISTOR 2SK1079
Q107	HTK0218CY	TRANSISTOR 2SK1079
Q108	HTK0218CY	TRANSISTOR 2SK1079
Q109	HTK0218CY	TRANSISTOR 2SK1079
Q110	HTI0008CA	TRANSISTOR IMD3 (D3)
Q111	HTI0008CA	TRANSISTOR IMD3 (D3)
Q112	HTD0247CZ	TRANSISTOR DTC124EUA (25)
Q113	HTD0247CZ	TRANSISTOR DTC124EUA (25)
Q114	HTD0247CZ	TRANSISTOR DTC124EUA (25)
Q115	HTI0010CA	TRANSISTOR IMH1A
Q116	HTB0174CD	TRANSISTOR 2SB1002J (CJ)
D101	HDD0167CA	DIODE DCB010
D102	HDD0167CA	DIODE DCB010
D103	HNN0029	DIODE,ZEN HZ12A3L
D104	HNN0029	DIODE,ZEN HZ12A3L
D105	HDH0253CA	DIODE,ZEN HZM12B (32)
D106	HDD0167CA	DIODE DCB010
D107	HDH0230CA	DIODE,ZEN HZM5B (17)
D108	HDH0230CA	DIODE,ZEN HZM5B (17)
D109	HDD0167CA	DIODE DCB010
D110	HDD0159CA	DIODE DCA010
D111	HDD0167CA	DIODE DCB010
D112	HDH0253CA	DIODE,ZEN HZM12B (32)
D113	HDH0234CA	DIODE,ZEN HZM9B (26)
D114	HDD0168CA	DIODE DCC010
D115	HDD0167CA	DIODE DCB010
D116	HND0001	DIODE,ZEN DAM1A24 (22.7-25.6V)
R101	RME1454CA	R,METAL 1/10W 22 KOHM +-5%
R102	RME1454CA	R,METAL 1/10W 22 KOHM +-5%
R103	RME1468CA	R,METAL 1/10W 1 MOHM +-5%
R104	RME1462CA	R,METAL 1/10W 100 KOHM +-5%
R105	RME2133CD	R,METAL 1/2W 180 KOHM +-5%
R106	RME2133CD	R,METAL 1/2W 180 KOHM +-5%
R107	RME2133CD	R,METAL 1/2W 180 KOHM +-5%
R108	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R109	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R113	RME1809CA	R,METAL 1/32W 1 KOHM +-5%
R114	RME1785CA	R,METAL 1/32W 10 OHM +-5%
R115	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
R116	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R117	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R118	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%
R119	RME1817CA	R,METAL 1/32W 4.7 KOHM +-5%
R120	RME1785CA	R,METAL 1/32W 10 OHM +-5%
R121	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
R122	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R123	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R124	RME1990CA	R,METAL 1/8W 0.39 OHM +-5%
R125	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R126	RME1829CA	R,METAL 1/32W 47 KOHM +-5%
R127	RME1829CA	R,METAL 1/32W 47 KOHM +-5%
R128	RME1829CA	R,METAL 1/32W 47 KOHM +-5%
R129	RME1839CA	R,METAL 1/32W 1 MOHM +-5%
R130	RME1839CA	R,METAL 1/32W 1 MOHM +-5%
R131	RME2260CA	R,METAL 1/32W 75 OHM +-5%
R132	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
R133	RME1809CA	R,METAL 1/32W 1 KOHM +-5%
R134	RME1809CA	R,METAL 1/32W 1 KOHM +-5%
R135	RME1797CA	R,METAL 1/32W 100 OHM +-5%

SYMBOL	PART CODE	DESCRIPTION
R136	RME1833CA	R,METAL 1/32W 100 KOHM +-5%
R137	RME1833CA	R,METAL 1/32W 100 KOHM +-5%
R138	RME1797CA	R,METAL 1/32W 100 OHM +-5%
R139	RME1829CA	R,METAL 1/32W 47 KOHM +-5%
R140	RME1829CA	R,METAL 1/32W 47 KOHM +-5%
R141	RME1839CA	R,METAL 1/32W 1 MOHM +-5%
R142	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
R143	RME1811CA	R,METAL 1/32W 1.5 KOHM +-5%
R144	RME1834CA	R,METAL 1/32W 150 KOHM +-5%
R145	RME1833CA	R,METAL 1/32W 100 KOHM +-5%
R146	RME1809CA	R,METAL 1/32W 1 KOHM +-5%
R147	RME1990CA	R,METAL 1/8W 0.39 OHM +-5%
R148	RME1990CA	R,METAL 1/8W 0.39 OHM +-5%
R149	RME1990CA	R,METAL 1/8W 0.39 OHM +-5%
R150	RME1990CA	R,METAL 1/8W 0.39 OHM +-5%
R151	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R152	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R153	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
R154	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
R155	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
R156	RME1829CA	R,METAL 1/32W 47 KOHM +-5%
R157	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
R158	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
R159	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
R160	RME1825CA	R,METAL 1/32W 22 KOHM +-5%
R161	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
R162	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
R163	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
R164	RME1821CA	R,METAL 1/32W 10 KOHM +-5%
R165	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R170	RME2260CA	R,METAL 1/32W 75 OHM +-5%
R173	RMR4139CA	R,METAL 1/16W 10 KOHM +-0.5%
R174	RMR4139CA	R,METAL 1/16W 10 KOHM +-0.5%
R175	RMR4330CA	R,METAL 1/16W 47 OHM +-0.5%
R176	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R177	RME1809CA	R,METAL 1/32W 1 KOHM +-5%
R178	RMR4167CA	R,METAL 1/16W 5.6 KOHM +-0.5%
R179	RMR4167CA	R,METAL 1/16W 5.6 KOHM +-0.5%
R180	RME1434CA	R,METAL 1/10W 470 OHM +-5%
R181	RME1434CA	R,METAL 1/10W 470 OHM +-5%
R182	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R183	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R184	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R188	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R189	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R190	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R191	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R192	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R193	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R194	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R195	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R196	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R197	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R198	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R199	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R200	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R201	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R202	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R203	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R204	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R205	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R206	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R207	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R208	RME1784CA	R,METAL 1/32W 0 OHM +-5%
R210	RMR4137CA	R,METAL 1/16W 820 OHM +-0.5%
R211	RMR4158CA	R,METAL 1/16W 330 OHM +-0.5%
R212	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R213	RMR4163CA	R,METAL 1/16W 1.8 KOHM +-0.5%
R214	RME1413CA	R,METAL 1/10W 0 OHM
R215	RMR4152CA	R,METAL 1/16W 100 OHM +-0.5%
R216	RMR4113CA	R,METAL 1/16W 1 KOHM +-0.5%
R217	RMR4207CA	R,METAL 1/10W 75 OHM +-0.25%
R218	RMR4163CA	R,METAL 1/16W 1.8 KOHM +-0.5%
R219	RME1784CA	R,METAL 1/32W 0 OHM +-5%

MB-32 (CA-Z32)

SYMBOL	PART CODE	DESCRIPTION	SYMBOL	PART CODE	DESCRIPTION
R220	RMR4137CA	R.METAL 1/16W 820 OHM +-0.5%	C130	CCE0121CA	C.CERAMIC 16 V 1 UF+80-20%
R221	RMR4158CA	R.METAL 1/16W 330 OHM +-0.5%	C131	CCE0121CA	C.CERAMIC 16 V 1 UF+80-20%
R222	RMR4113CA	R.METAL 1/16W 1 KOHM +-0.5%	C132	CEU0076CY	C.AL ELYC 6.3V 22 UF+-20%
R223	RMR4163CA	R.METAL 1/16W 1.8 KOHM +-0.5%	C133	CEU0076CY	C.AL ELYC 6.3V 22 UF+-20%
R224	RME1413CA	R.METAL 1/10W 0 OHM	C134	CCE0121CA	C.CERAMIC 16 V 1 UF+80-20%
R225	RMR4152CA	R.METAL 1/16W 100 OHM +-0.5%	C135	CCE0121CA	C.CERAMIC 16 V 1 UF+80-20%
R226	RMR4113CA	R.METAL 1/16W 1 KOHM +-0.5%	C136	CCE0121CA	C.CERAMIC 16 V 1 UF+80-20%
R227	RMR4207CA	R.METAL 1/10W 75 OHM +-0.25%	C140	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R228	RMR4163CA	R.METAL 1/16W 1.8 KOHM +-0.5%	C141	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R229	RME1784CA	R.METAL 1/32W 0 OHM +-5%	C142	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R230	RMR4137CA	R.METAL 1/16W 820 OHM +-0.5%	C143	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R231	RMR4158CA	R.METAL 1/16W 330 OHM +-0.5%	C144	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R232	RMR4113CA	R.METAL 1/16W 1 KOHM +-0.5%	C145	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R233	RME1784CA	R.METAL 1/32W 0 OHM +-5%	C146	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R234	RME1413CA	R.METAL 1/10W 0 OHM	C147	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R235	RMR4152CA	R.METAL 1/16W 100 OHM +-0.5%	C148	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R236	RMR4113CA	R.METAL 1/16W 1 KOHM +-0.5%	C150	CCE0121CA	C.CERAMIC 16 V 1 UF+80-20%
R237	RMR4207CA	R.METAL 1/10W 75 OHM +-0.25%	C151	CEU0076CY	C.AL ELYC 6.3V 22 UF+-20%
R238	RMR4163CA	R.METAL 1/16W 1.8 KOHM +-0.5%	C152	CEU0076CY	C.AL ELYC 6.3V 22 UF+-20%
R239	RME1784CA	R.METAL 1/32W 0 OHM +-5%	C153	CEU0080CY	C.AL ELYC 16 V 22 UF+-20%
R241	RMR4113CA	R.METAL 1/16W 1 KOHM +-0.5%	C154	CEU0081CX	C.AL ELYC 25 V 33 UF+-20%
R242	RMR4113CA	R.METAL 1/16W 1 KOHM +-0.5%	C155	CEL0165	C.AL ELYC 25 V 470 UF+-20%
R243	RMR4113CA	R.METAL 1/16W 1 KOHM +-0.5%	C157	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
R244	RME1413CA	R.METAL 1/10W 0 OHM	L101	8488096	COIL LC-0334
R245	RME1784CA	R.METAL 1/32W 0 OHM +-5%	L102	TLL0336CD	COIL 50 MA 1 MH+-10%
R246	RME1784CA	R.METAL 1/32W 0 OHM +-5%	L103	TLL0336CD	COIL 50 MA 1 MH+-10%
R247	RMR4207CA	R.METAL 1/10W 75 OHM +-0.25%	L104	TLL0362CA	COIL LQH3C220K04 (22UH)
R250	RME1784CA	R.METAL 1/32W 0 OHM +-5%	L105	TLL0362CA	COIL LQH3C220K04 (22UH)
R251	RMR4162CA	R.METAL 1/16W 1.5 KOHM +-0.5%	L106	TLL0362CA	COIL LQH3C220K04 (22UH)
R252	RMR4162CA	R.METAL 1/16W 1.5 KOHM +-0.5%	L107	TLL0362CA	COIL LQH3C220K04 (22UH)
R253	RMR4162CA	R.METAL 1/16W 1.5 KOHM +-0.5%	L111	TLL0362CA	COIL LQH3C220K04 (22UH)
R255	RME1784CA	R.METAL 1/32W 0 OHM +-5%	L112	TLL0362CA	COIL LQH3C220K04 (22UH)
R256	RME1784CA	R.METAL 1/32W 0 OHM +-5%	FL101	AFD0066	FIL DSS310H-55B271M250
R257	RME1784CA	R.METAL 1/32W 0 OHM +-5%	DL201	EDL0015CG	CONNECTOR LX-0455(165NS/1000HM)
R260	RME1784CA	R.METAL 1/32W 0 OHM +-5%	DL202	EDL0015CG	CONNECTOR LX-0455(165NS/1000HM)
R261	RME1784CA	R.METAL 1/32W 0 OHM +-5%	DL203	EDL0015CG	CONNECTOR LX-0455(165NS/1000HM)
R262	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN101	JBF0072MA	CONNECTOR FH12-30S-0.5SH
R263	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN102	JBF0104MA	CONNECTOR FH12-33S-0.5SH
R264	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN103	JBB0054	CONNECTOR B7B-PH
R265	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN104	JBX2732	CONNECTOR 173279-2
R266	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN105	JBD0035	CONNECTOR DF11-24DP-2DSA
R267	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN106	JBB0115	CONNECTOR B3P-VH
R268	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN107	JBF0057	CONNECTOR FX4C2-20S-1.27DSAL
R269	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN108	JBB0144	CONNECTOR B4B-EH
R270	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN109	JBB0052	CONNECTOR B2B-PH
R271	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN110	JBB0051	CONNECTOR B10B-PH
R272	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN111	JBX2443	CONNECTOR 350541-2
R273	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN112	JBB0109	CONNECTOR B2P-VH
R276	RME1784CA	R.METAL 1/32W 0 OHM +-5%	CN113	JBD0134	CONNECTOR DF3A-3P-2DSA
R277	RME1784CA	R.METAL 1/32W 0 OHM +-5%	SW102	STO3370	SW.TOGGLE ATE1H-2M3-10
R278	RME1784CA	R.METAL 1/32W 0 OHM +-5%	SW102E	SSY0680	BRACKET AZ0001
R279	RME1784CA	R.METAL 1/32W 0 OHM +-5%	RL101	SRP0248	RLY.PWR AJZ3271 (DC12V)
R280	RME1420CA	R.METAL 1/10W 33 OHM +-5%	F101	EFG0683	FUSE TSC UL,CSA 125V 3.0A
RV102	RDR0590	VR.CARBON RK09K113-B5K LM1=15	EFH0251	HLDR,FUSE H-0011-1	
C101	CSS0178CD	C.TA ELYC 35 V 4.7 UF+-20%	C201	CEU0077CY	C.AL ELYC 6.3V 47 UF+-20%
C102	CQE0219CA	C.PLASTIC 16 V47000 PF+-5%	C202	CEU0077CY	C.AL ELYC 6.3V 47 UF+-20%
C103	CSS0171CD	C.TA ELYC 16 V 10 UF+-20%	C203	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
C104	CEL0125	C.AL ELYC 16 V 47 UF+-20%	C204	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
C105	CEL0180	C.AL ELYC 25 V 330 UF+-20%	C205	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
C106	CEL0127	C.AL ELYC 50 V 1 UF+-20%	C206	CGG0678CA	C.CERAMIC 16 V 0.1 UF+80-20%
C107	CEL0127	C.AL ELYC 50 V 1 UF+-20%	C211	CGG0553CA	C.CERAMIC 50 V 10 PF+-0.5PF
C108	CEL0127	C.AL ELYC 50 V 1 UF+-20%	C212	CGG0566CA	C.CERAMIC 50 V 47 PF+-5%
C109	CSS0171CD	C.TA ELYC 16 V 10 UF+-20%	C221	CGG0553CA	C.CERAMIC 50 V 10 PF+-0.5PF
C110	CQE0219CA	C.PLASTIC 16 V47000 PF+-5%	C222	CGG0566CA	C.CERAMIC 50 V 47 PF+-5%
C111	CEL0125	C.AL ELYC 16 V 47 UF+-20%	C231	CGG0553CA	C.CERAMIC 50 V 10 PF+-0.5PF
C112	CEL0180	C.AL ELYC 25 V 330 UF+-20%	C232	CGG0566CA	C.CERAMIC 50 V 47 PF+-5%
C113	CEL0029	C.AL ELYC 50 V 22 UF+-20%	C241	CGG0553CA	C.CERAMIC 50 V 10 PF+-0.5PF
C115	CGG0562CA	C.CERAMIC 50 V 220 PF+-5%	R216	RMR4909CA	R.METAL 1/16W 1 KOHM +-0.5%
C120	CGG9286CA	C.CERAMIC 50 V 1000 PF+-10%	R226	RMR4909CA	R.METAL 1/16W 1 KOHM +-0.5%
C121	CEL0119	C.AL ELYC 35 V 10 UF+-20%	R236	RMR4909CA	R.METAL 1/16W 1 KOHM +-0.5%
C122	CEL0119	C.AL ELYC 35 V 10 UF+-20%	R243	RMR4909CA	R.METAL 1/16W 1 KOHM +-0.5%
C123	CGG9209CA	C.CERAMIC 50 V 4700 PF+-10%	R173	RMR4860CA	R.METAL 1/16W 10 KOHM +-0.5%
C124	CGG9209CA	C.CERAMIC 50 V 4700 PF+-10%	R174	RMR4860CA	R.METAL 1/16W 10 KOHM +-0.5%
C126		NOT USED	R215	RMR4935CA	R.METAL 1/16W 100 OHM +-0.5%
C127	CGG9292CA	C.CERAMIC 50 V10000 PF+-10%	R225	RMR4935CA	R.METAL 1/16W 100 OHM +-0.5%

MB32 (CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
R235	RMR4935CA	R.METAL 1/16W 100 OHM +-0.5%
R213	RMR4926CA	R.METAL 1/16W 1.8 KOHM +-0.5%
R218	RMR4926CA	R.METAL 1/16W 1.8 KOHM +-0.5%
R223	RMR4926CA	R.METAL 1/16W 1.8 KOHM +-0.5%
R228	RMR4926CA	R.METAL 1/16W 1.8 KOHM +-0.5%
R238	RMR4926CA	R.METAL 1/16W 1.8 KOHM +-0.5%
R178	RMR4890CA	R.METAL 1/16W 5.6 KOHM +-0.5%
R179	RMR4890CA	R.METAL 1/16W 5.6 KOHM +-0.5%

26PIN (CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
C341	CCG9612CA	C.CERAMIC 50 V 0.1 UF+80-20%
C342		NOT USED
FL341	AFA0017CA	FIL ACM3225-102-2P
FL342	AFA0017CA	FIL ACM3225-102-2P
FL343	AFA0017CA	FIL ACM3225-102-2P
FL344	AFA0017CA	FIL ACM3225-102-2P
FL345	AFA0017CA	FIL ACM3225-102-2P
FL346	AFA0017CA	FIL ACM3225-102-2P
FL347	AFD0066	FIL DSS310H-55B271M250
CN341	JBD0035	CONNECTOR DF11-24DP-2DSA
CN342	JBB0115	CONNECTOR B3P-VH
CN343	JMS0400	CON,MULTI SRCB2A21-26P-TH-N1

20PIN (CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
CN401	JBF0058	CONNECTOR FX4C3-20P-1.27DSAL
CN402	JBF0120	CONNECTOR FX2-20P-1.27DSL
R401	RME0912CA	R.METAL 1/8W 0 OHM
R402	RME0912CA	R.METAL 1/8W 0 OHM

CHASSIS (CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
P1	BBH0151	WIRE,RIBBN SML2CD-30*45 (8597306-AG)
P2	BBH0142	WIRE,RIBBN SML2CD-33*45 (8597306-R)
P3	8659008 A	CABLE ASSY PHR-7/PHR-7 L=80
P5	8659008 C	CABLE ASSY DF11-24DS/DF11-24DS L=350
P6	8659008 D	CABLE ASSY VHR-3N/VHR-3N L=200
P7	8659008 E	CABLE ASSY EHR-4/EHR-4 L=60
P8	8659008 F	CABLE ASSY PHR-10/4.2. L=140/150/150
P9	8659008 G	CABLE ASSY 1-480721-0/ L=120
CN422	JMH0213	CON,MULTI HA16PRH-5S
CN423	JMR0225	CON,MULTI RM12BRD-5S

128PIN (CA-Z31, CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
RZ301	RZA0416CA	R.BLOCK MNR14-E0AB-J-101
RZ302	RZA0416CA	R.BLOCK MNR14-E0AB-J-101
RZ303	RZA0416CA	R.BLOCK MNR14-E0AB-J-101
RZ304	RZA0416CA	R.BLOCK MNR14-E0AB-J-101
RZ305	RZA0416CA	R.BLOCK MNR14-E0AB-J-101
RZ306	RZA0416CA	R.BLOCK MNR14-E0AB-J-101
RZ307	RZA0416CA	R.BLOCK MNR14-E0AB-J-101
RZ308	RZA0416CA	R.BLOCK MNR14-E0AB-J-101
CN301	JBP0521	CONNECTOR PCF-128FDT
CN302	JBB0054	CONNECTOR B7B-PH
CN303	JBF0122MA	CONNECTOR FH12-30S-0.5SV
CN304	JBF0123MA	CONNECTOR FH12-33S-0.5SV

PINJACK (CA-Z31, CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
R321	RME1413CA	R.METAL 1/10W 0 OHM
R322	RME1413CA	R.METAL 1/10W 0 OHM
C321	CCG9286CA	C.CERAMIC 50 V 1000 PF+-10%
CN321	JBB0052	CONNECTOR B2B-PH
CN322	JJH0051	JACK HSJ1857-01-1020
	JYH0019	NUT HSJ0999-01-060
	JYH0046	WASHER HSJ0999-01-210

DC IN (CA-Z31, CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
C381	CCG9612CA	C.CERAMIC 50 V 0.1 UF+80-20%
C382	CCG9612CA	C.CERAMIC 50 V 0.1 UF+80-20%
FL1	AFD0055	FIL DSS306-55B471M100
CN381	JBB0053	CONNECTOR B4B-PH
CN382	JMH0117	CON,MULTI HA16RA-4P

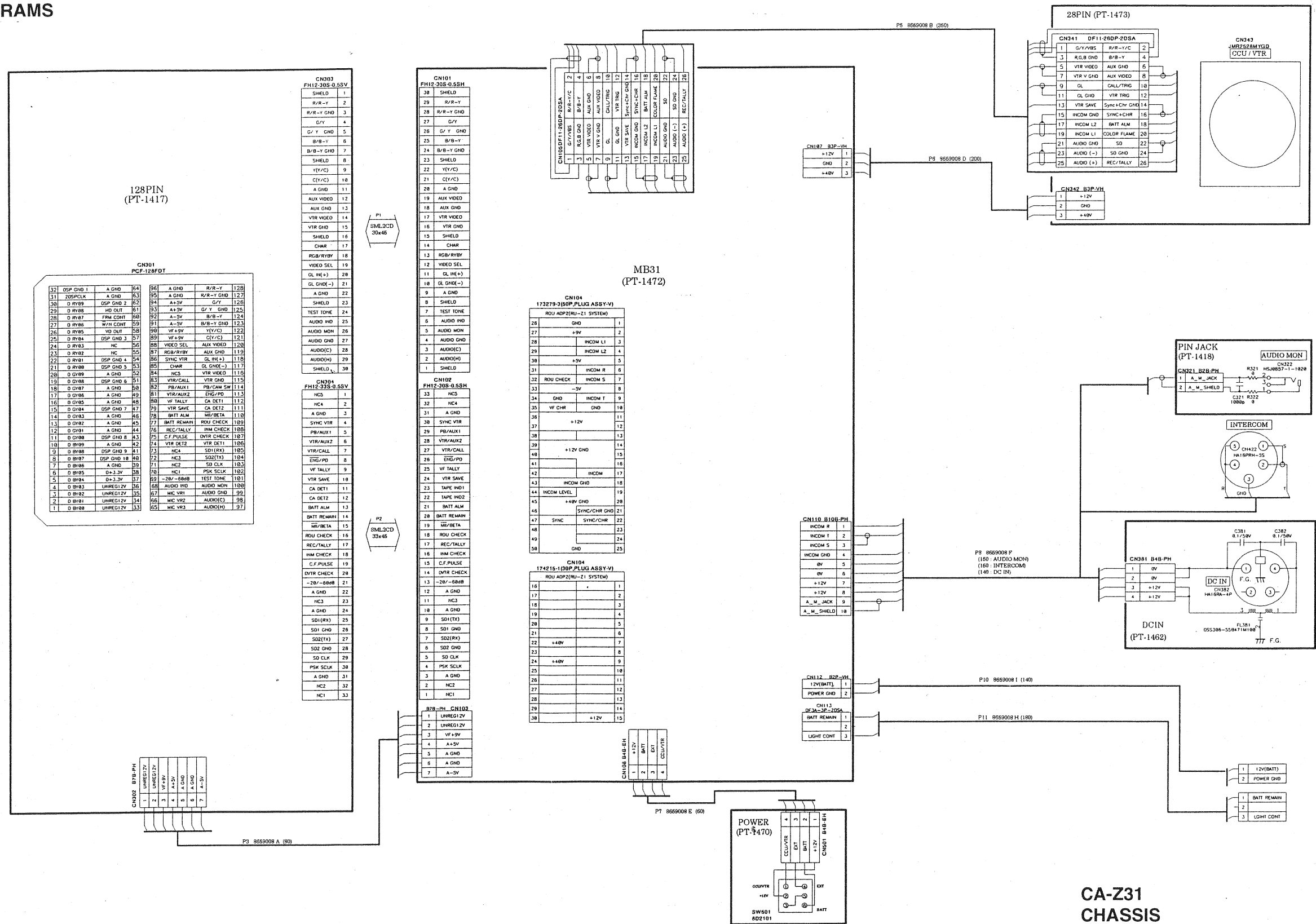
POWER (CA-Z31, CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
SW501	SST0118	SW,TOGGLE 8A2101
CN501	JBB0144	CONNECTOR B4B-EH

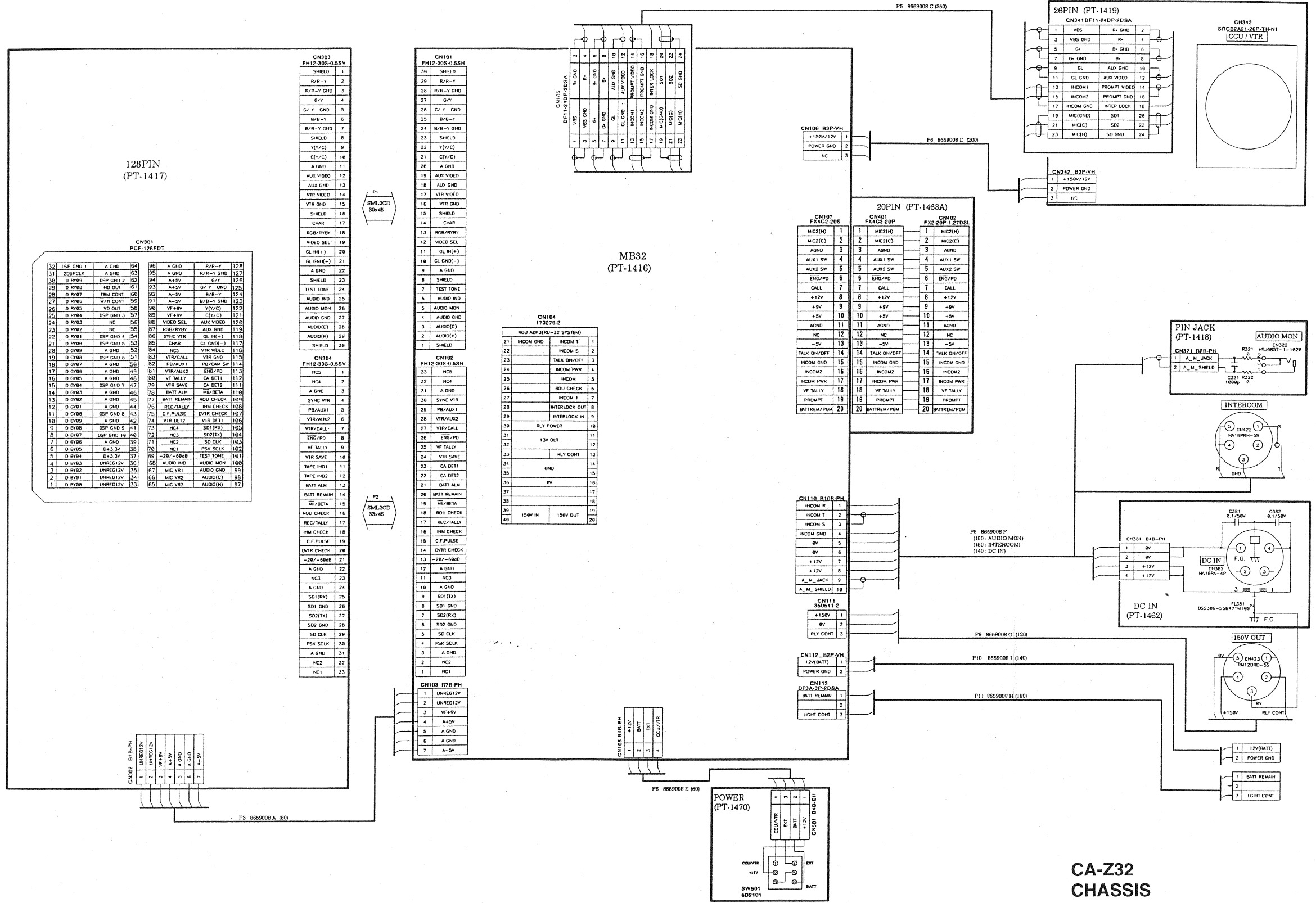
OPTIONAL ACCESSORY (CA-Z31, CA-Z32)

SYMBOL	PART CODE	DESCRIPTION
	EFG0683	FUSE TSC UL.CSA 125V 3.0A

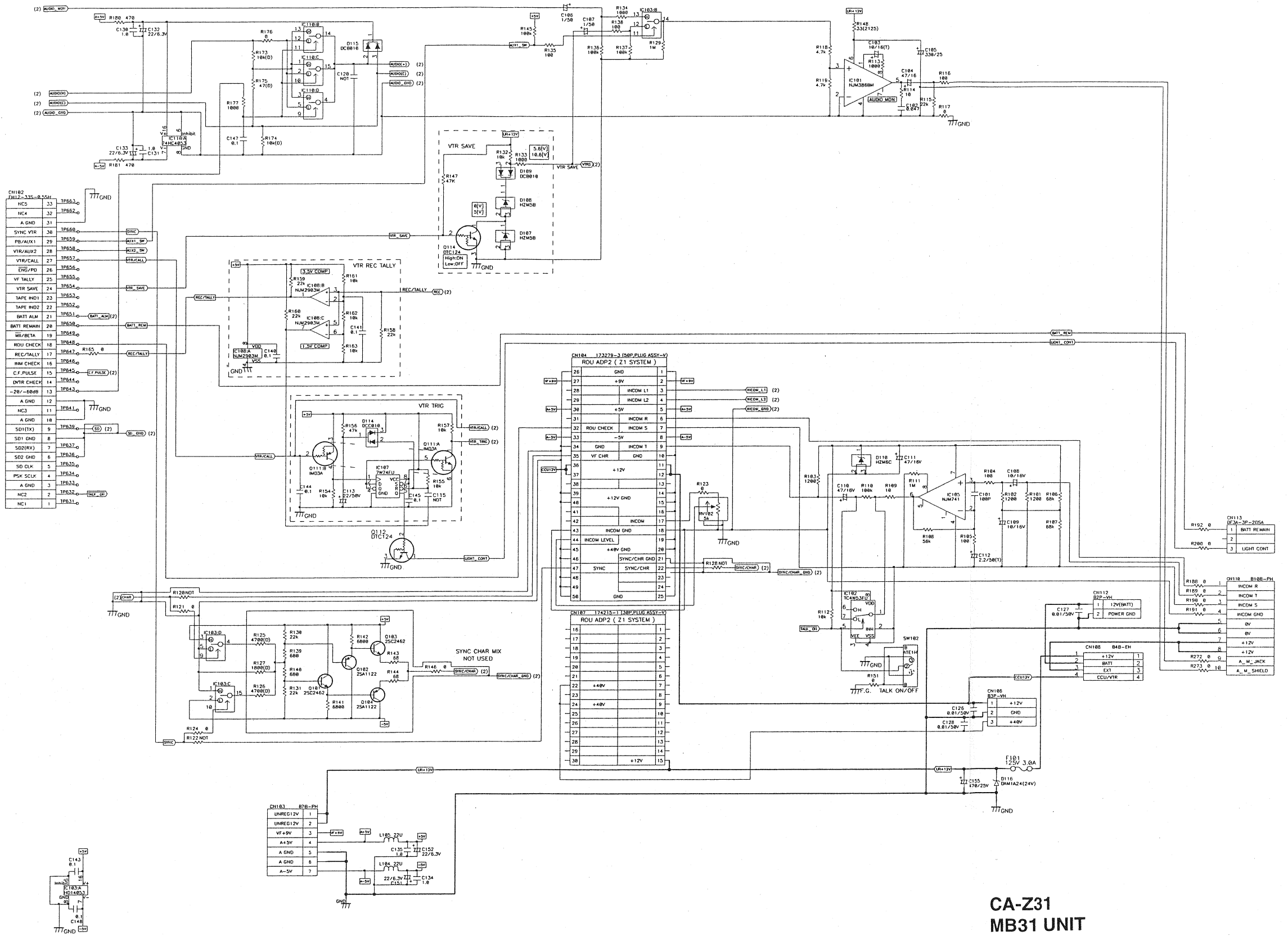
1. SCHEMATIC DIAGRAMS



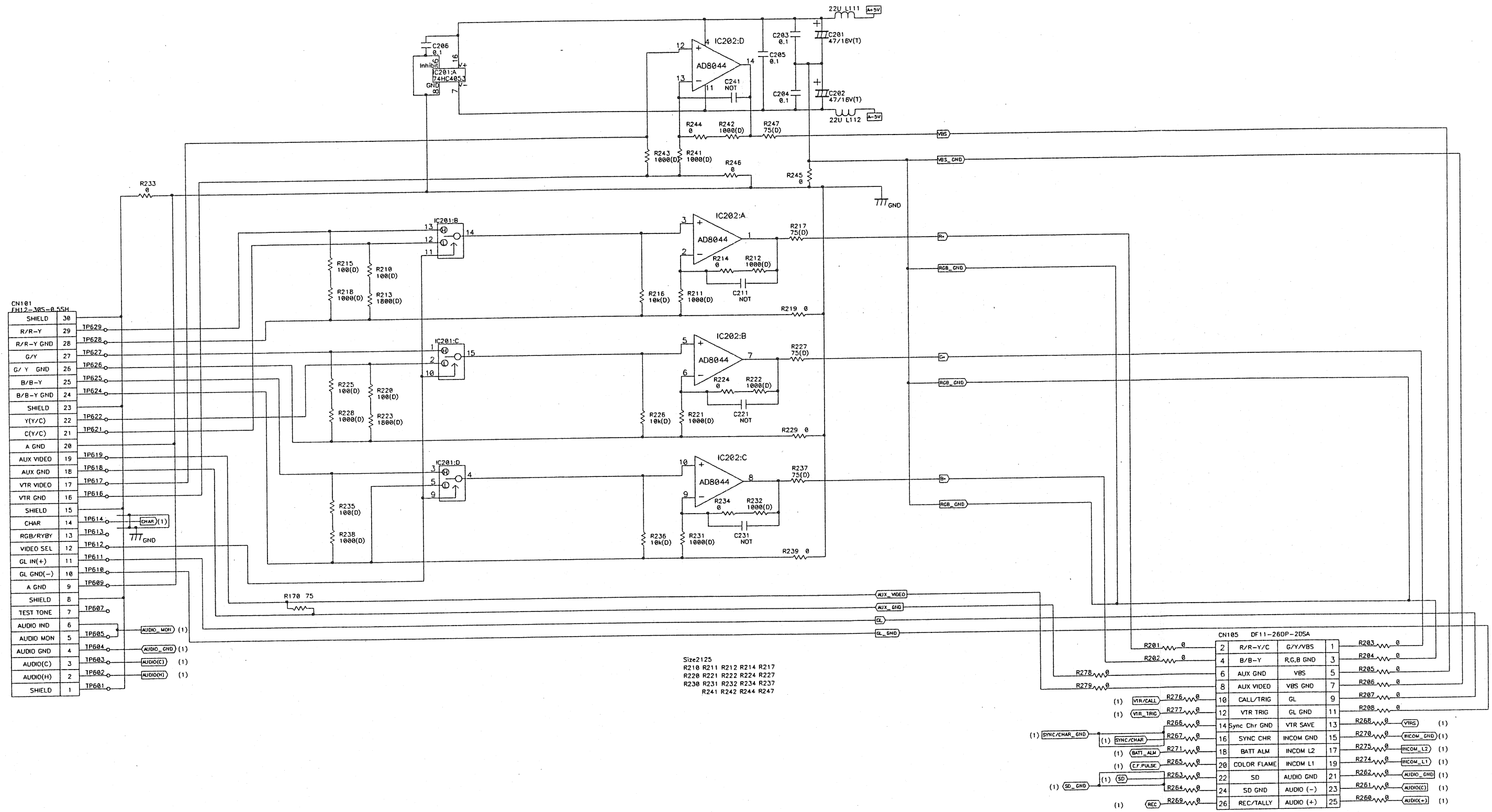
CA-Z31 CHASSIS SCHEMATIC DIAGRAM



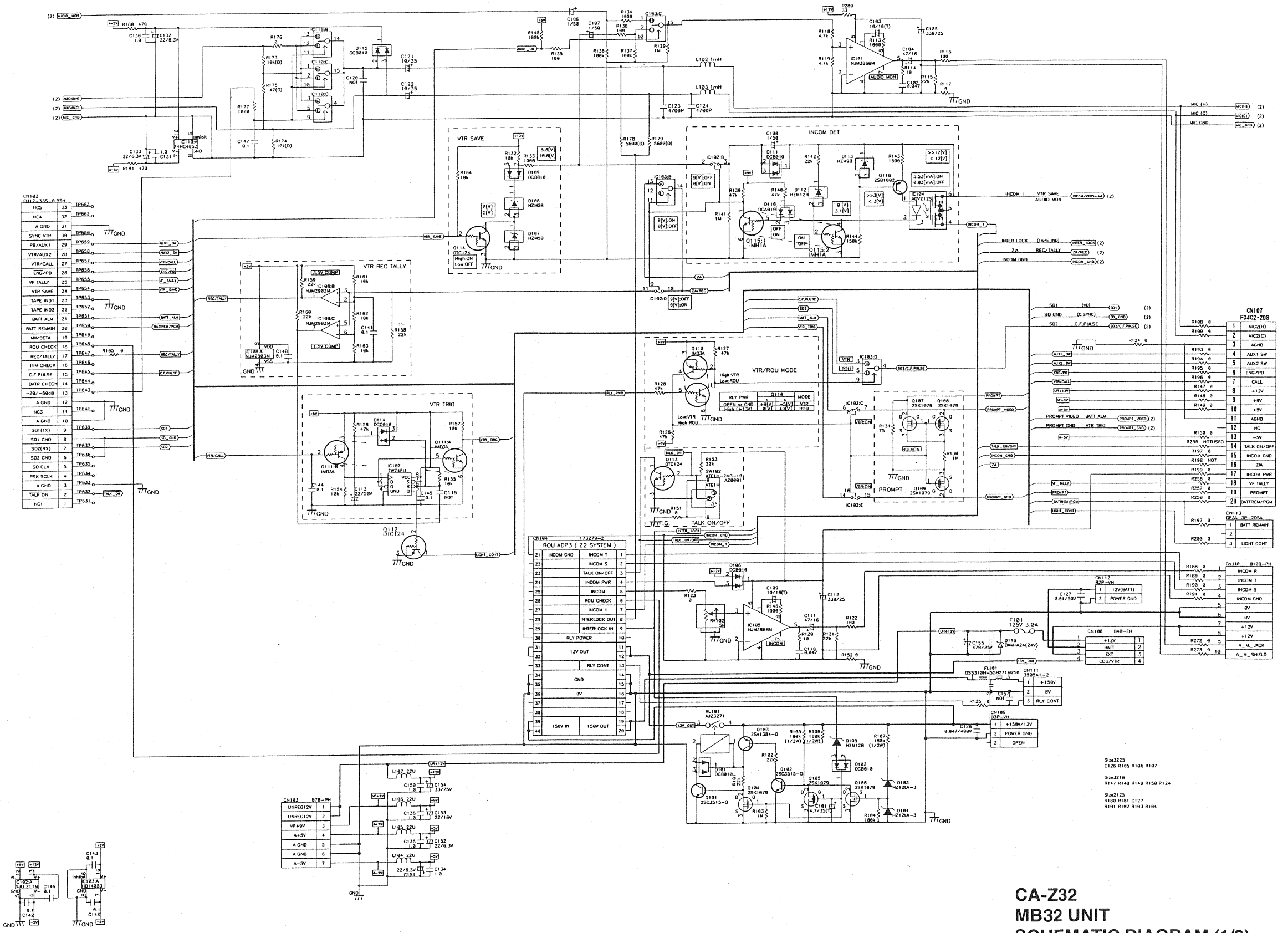
**CA-Z32
CHASSIS
SCHEMATIC DIAGRAM**



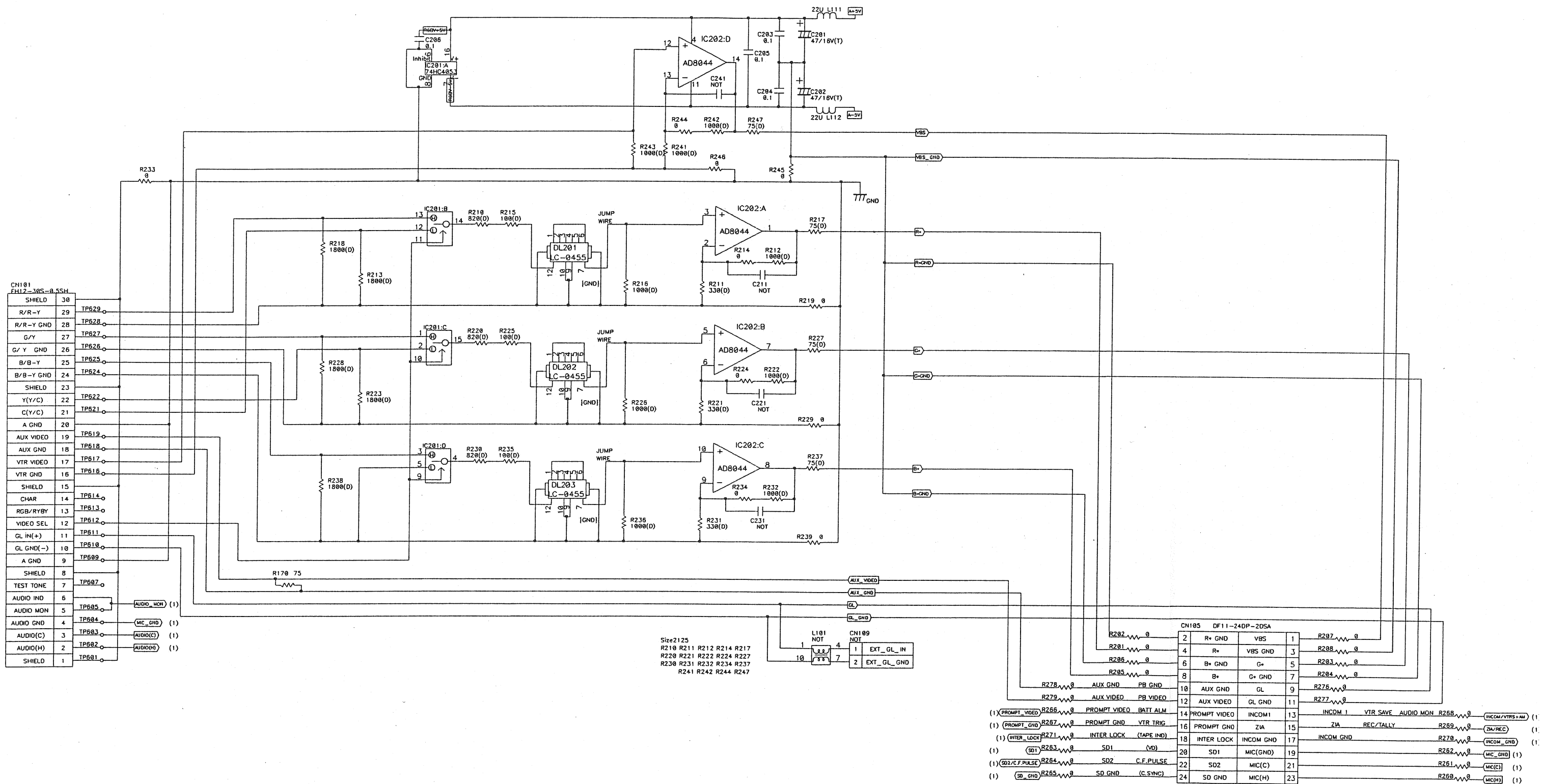
CA-Z31
MB31 UNIT
SCHEMATIC DIAGRAM (1/2)



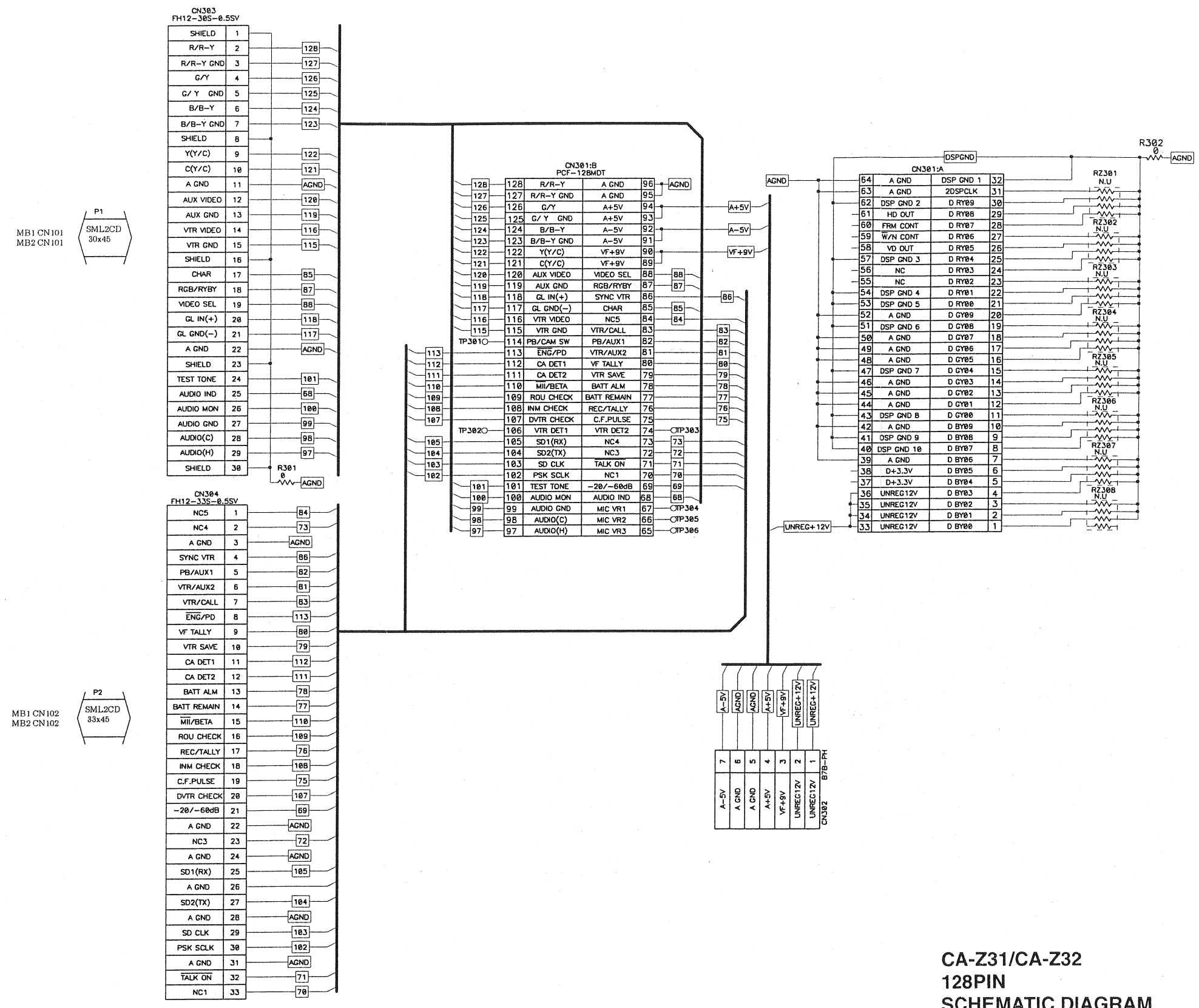
CA-Z31
 MB31 UNIT
 SCHEMATIC DIAGRAM (2/2)

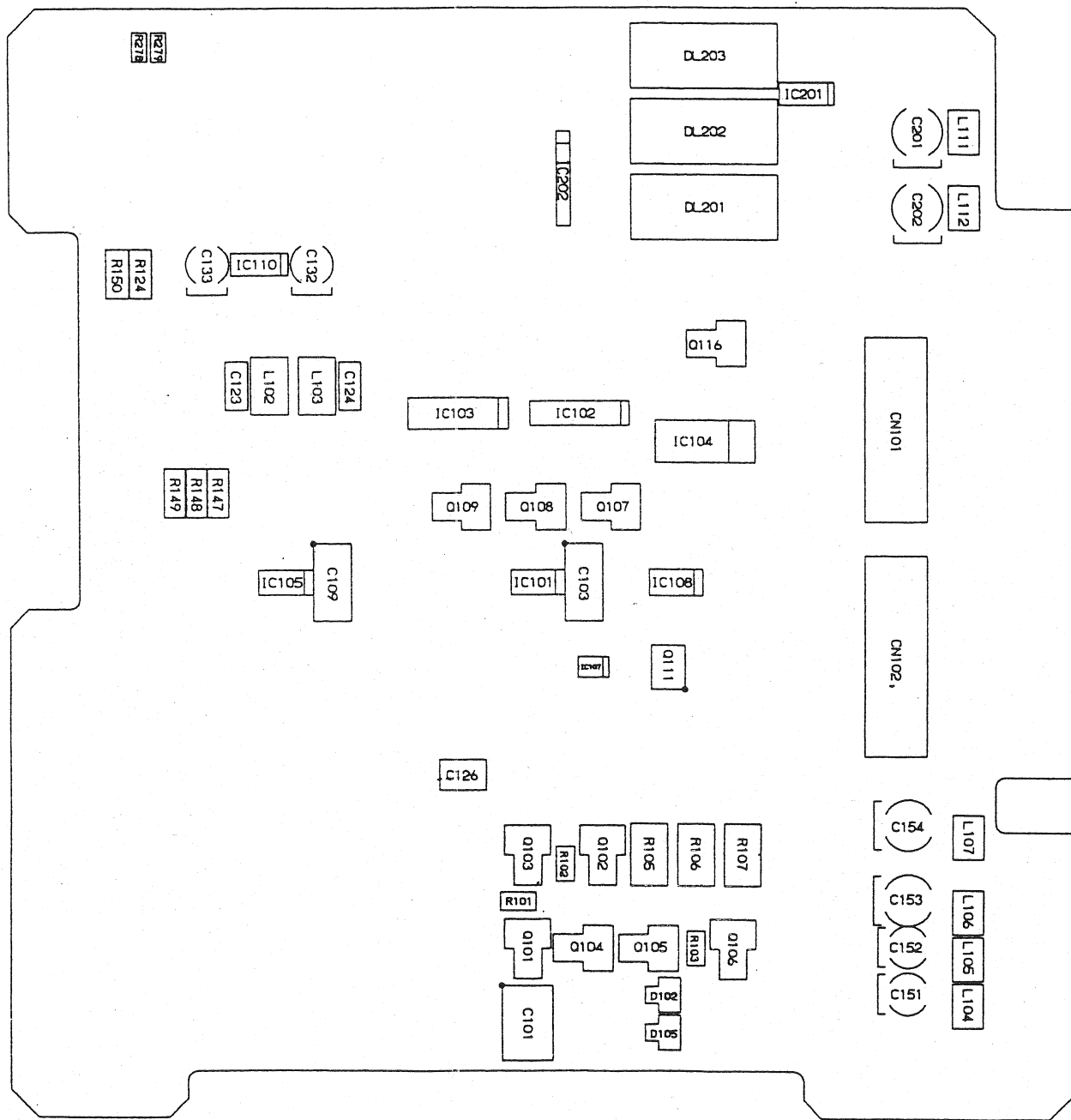


CA-Z32
MB32 UNIT
SCHEMATIC DIAGRAM (1/2)

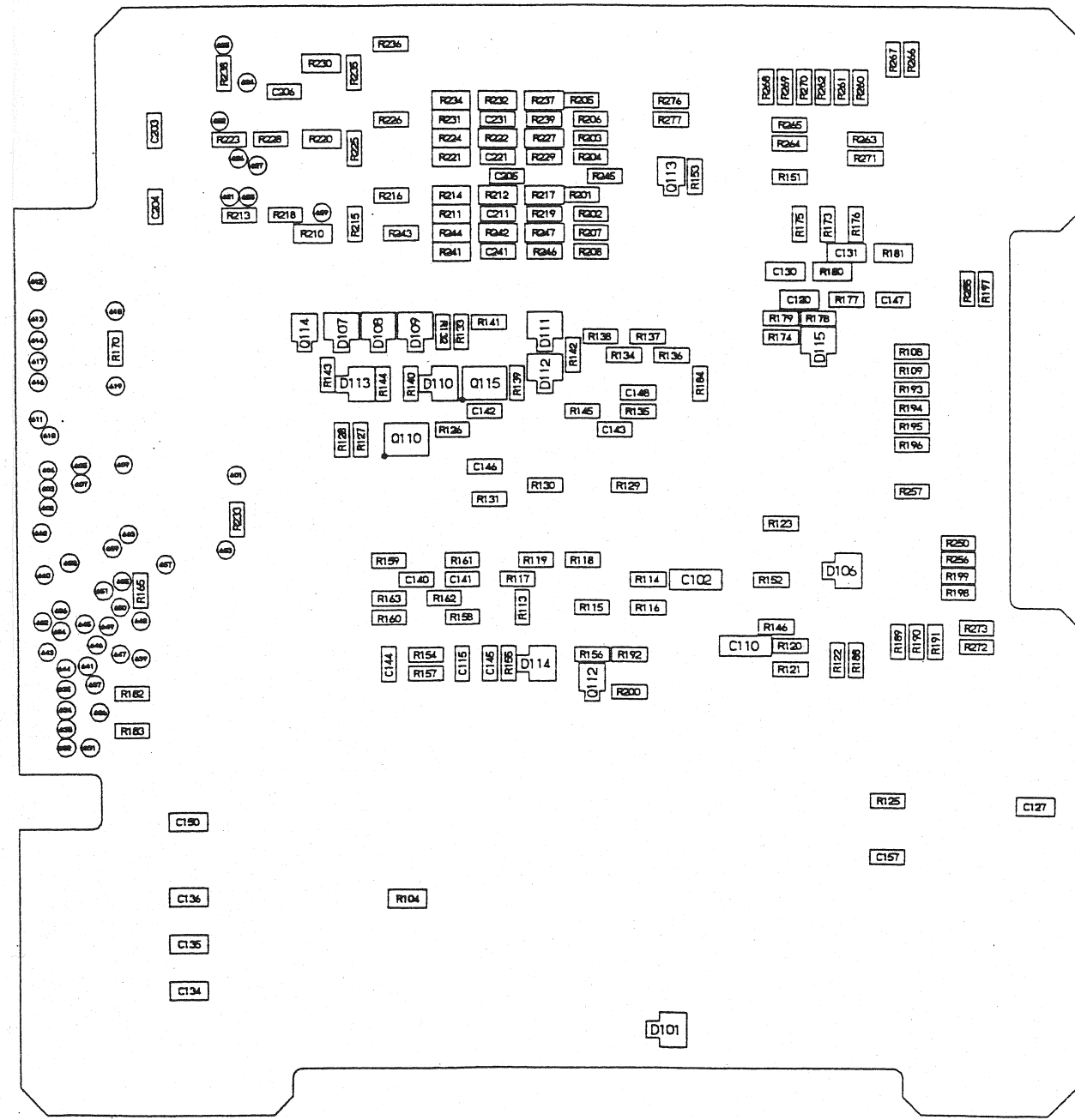


CA-Z32
 MB32 UNIT
 SCHEMATIC DIAGRAM (2/2)

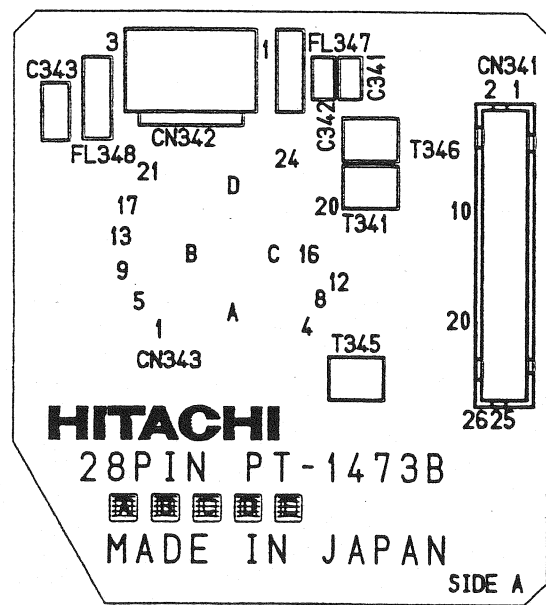




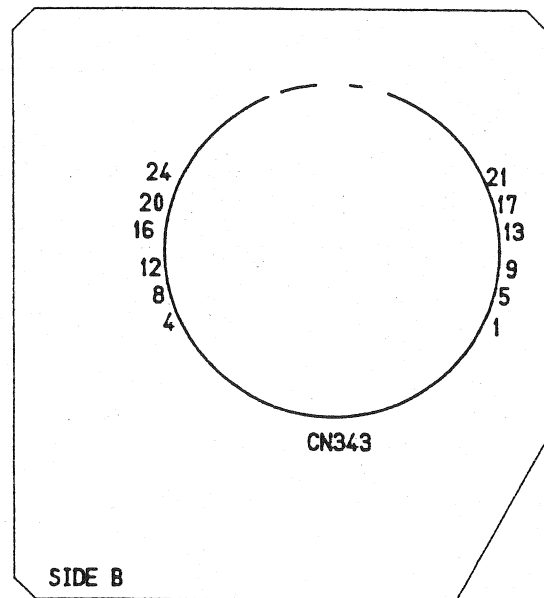
MB32 (PT-1416) SIDE A



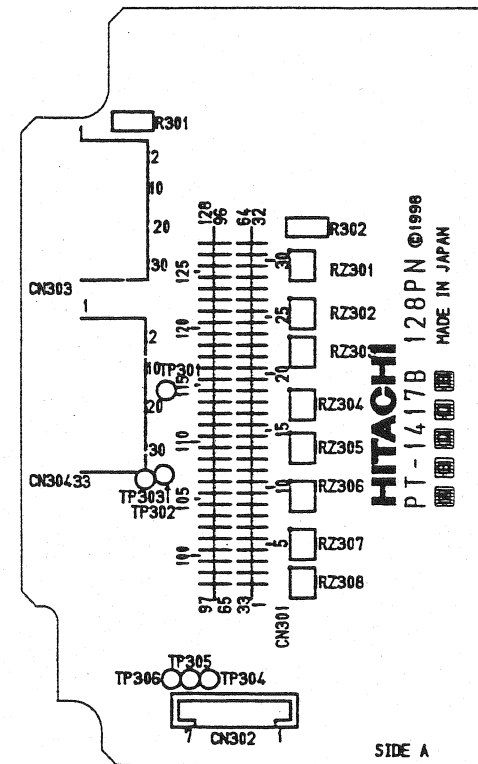
MB32 (PT-1416) SIDE B



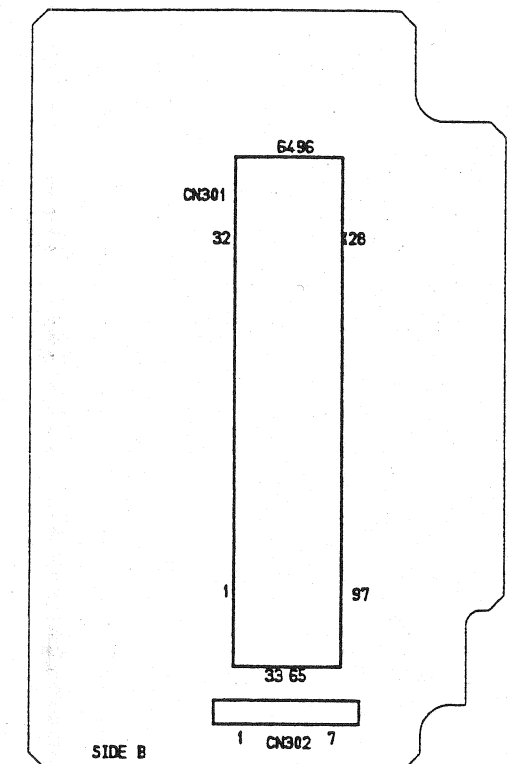
28PIN (PT-1473B) SIDE A



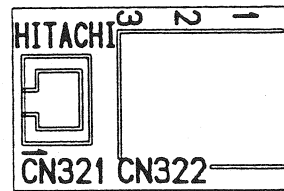
28PIN (PT-1473B) SIDE B



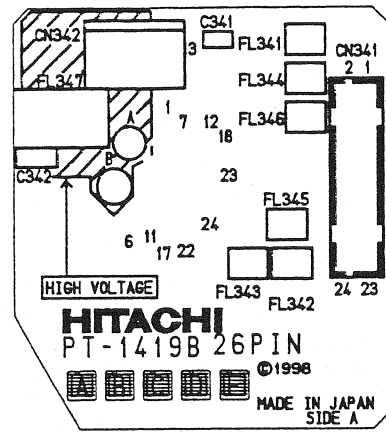
128PIN (PT-1417B) SIDE A



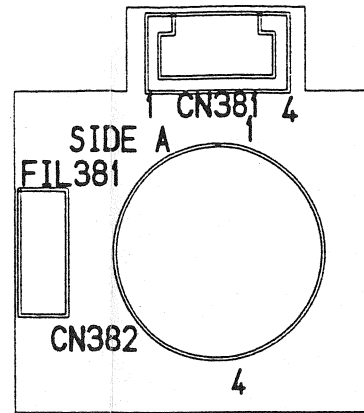
128PIN (PT-1417B) SIDE B



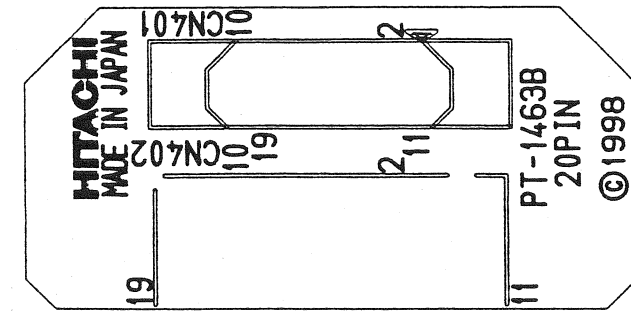
PINJACK (PT-1418A) SIDE A



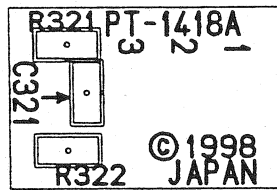
26PIN (PT-1419B) SIDE A



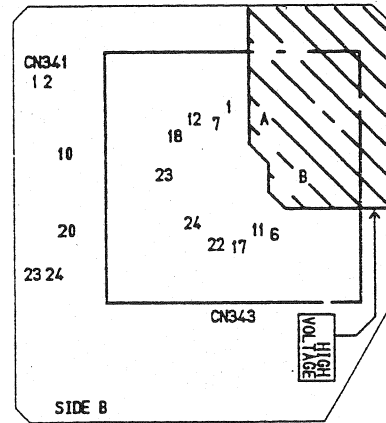
DC IN (PT-1462B) SIDE A



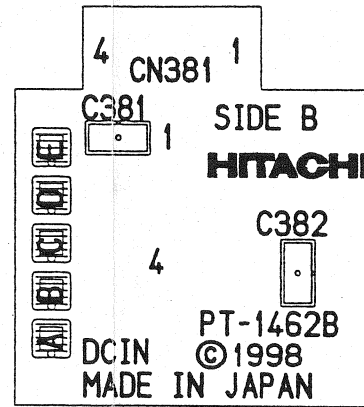
20PIN (PT-1463B) SIDE A



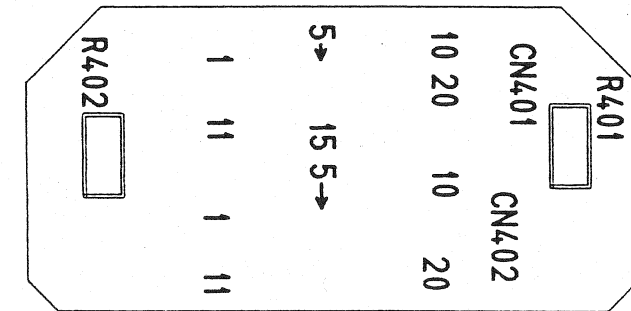
PINJACK (PT-1418A) SIDE B



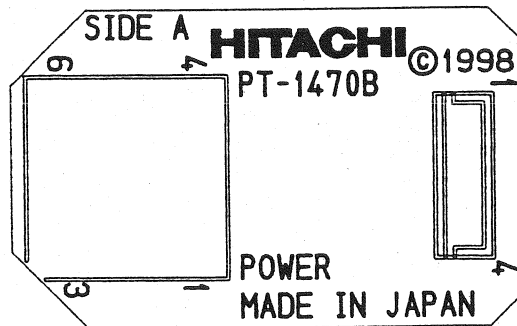
26PIN (PT-1419B) SIDE B



DC IN (PT-1462B) SIDE B



20PIN (PT-1463B) SIDE B



POWER (PT-1470B) SIDE A