

Pioneer

Service Manual



ORDER NO.
ARP2997

PLASMA DISPLAY

PDP-501MX

PLASMA DISPLAY

PDP-V501X

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

| Type | Model | | Power Requirement | Remarks |
|------|-----------------------|-----------------------|-------------------|---------|
| | PDP-501MX | PDP-V501X | | |
| KUC | <input type="radio"/> | <input type="radio"/> | AC120V | |

- This manual does not contain the full schematic diagrams and the PCB connection diagrams.

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & safety code section 25249.6—Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

1.1 SAFETY PRECAUTIONS

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

The following precautions should be observed :

1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
3. 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.
4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's.

Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.

5. Before returning a serviced set 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 set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and service technician.

6. Perform the following precautions against unwanted radiation and rise in internal temperature.
 - Always return the internal wiring to the original styling.
 - Attach parts (Ground, Rear Cover, Shield Case) surely after disassembly.
7. Perform the following precautions for the PDP panel.
 - When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
 - Make sure that the panel vent does not break. (Check that the cover is attached.)
 - Handle the FPC connected to the panel carefully. Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
8. Pay attention to the following.
 - Be sure to wire the fan. If the fan does not work, the temperature will rise and cause the protection circuit to operate.
 - When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
 - Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

Leakage Current Cold Check

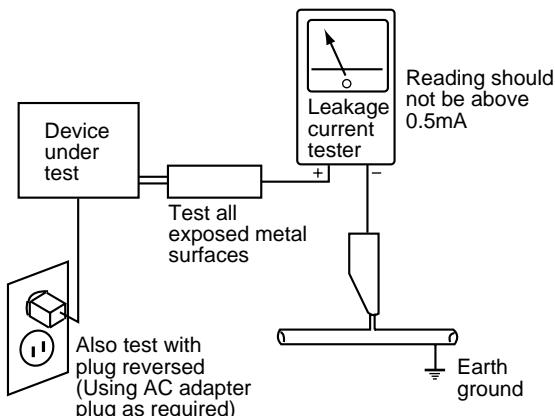
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3\text{M}\Omega$ and a maximum resistor reading of $5\text{M}\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

1.2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

1.3 CHARGED SECTION AND HIGH VOLTAGE GENERATING POINT

■ Charged Section

The places where the commercial AC power is used without passing through the power supply transformer. If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

■ Charged Section

(Power supply primary side)

1. AC Power Cord
2. AC Inlet with Filter
3. Power Switch (S1)
4. Fuse (In the MAIN POWER ASSY)
5. STB Transformer and Converter Transformer
(In the MAIN POWER ASSY)
6. Other primary side of the MAIN POWER ASSY

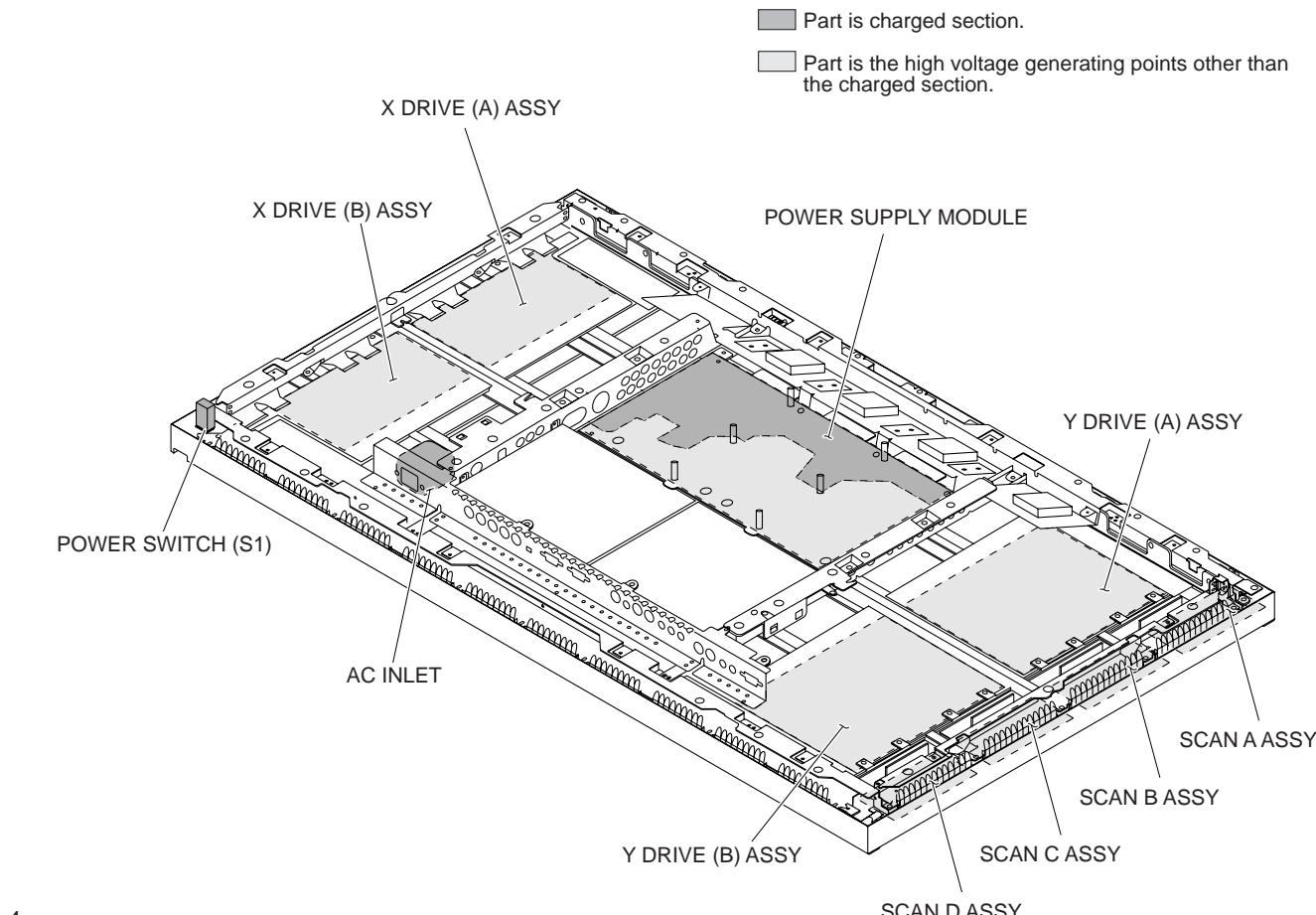
For the places, refer to the EXPLODED VIEWS, the SCHEMATIC DIAGRAM and the PCB CONNECTION DIAGRAM sections.

■ High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. POWER SUPPLY MODULE (170V)
2. X DRIVE (A) ASSY (170V)
3. X DRIVE (B) ASSY (170V)
4. Y DRIVE (A) ASSY (170V)
5. Y DRIVE (B) ASSY (170V)
6. SCAN ASSY (A),(B),(C),(D) (150V)

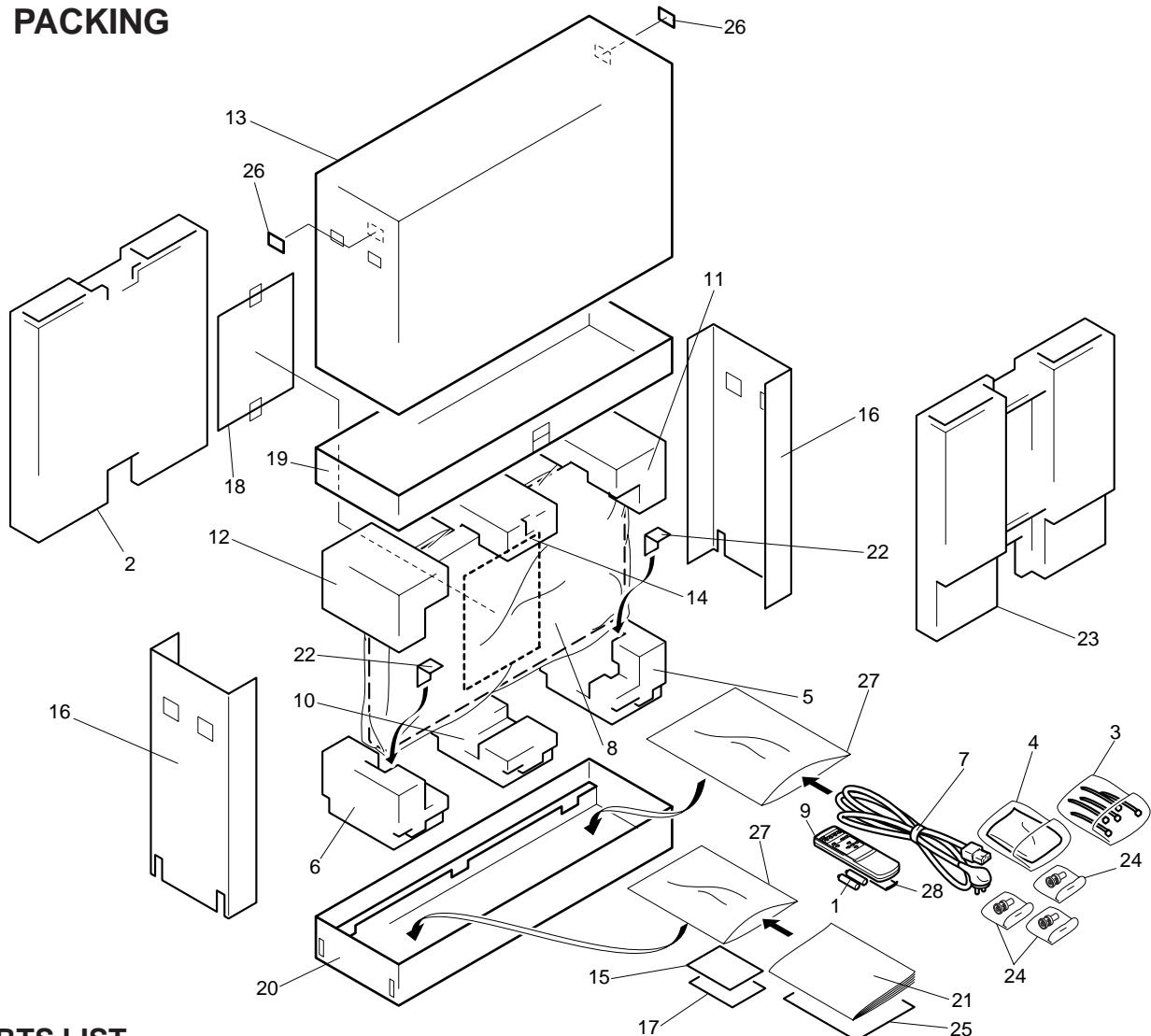
For the places, refer to the EXPLODED VIEWS, the SCHEMATIC DIAGRAM and the PCB CONNECTION DIAGRAM sections.



2. EXPLODED VIEWS AND PARTS LIST

- NOTES:**
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws adjacent to  mark on the product are used for disassembly.

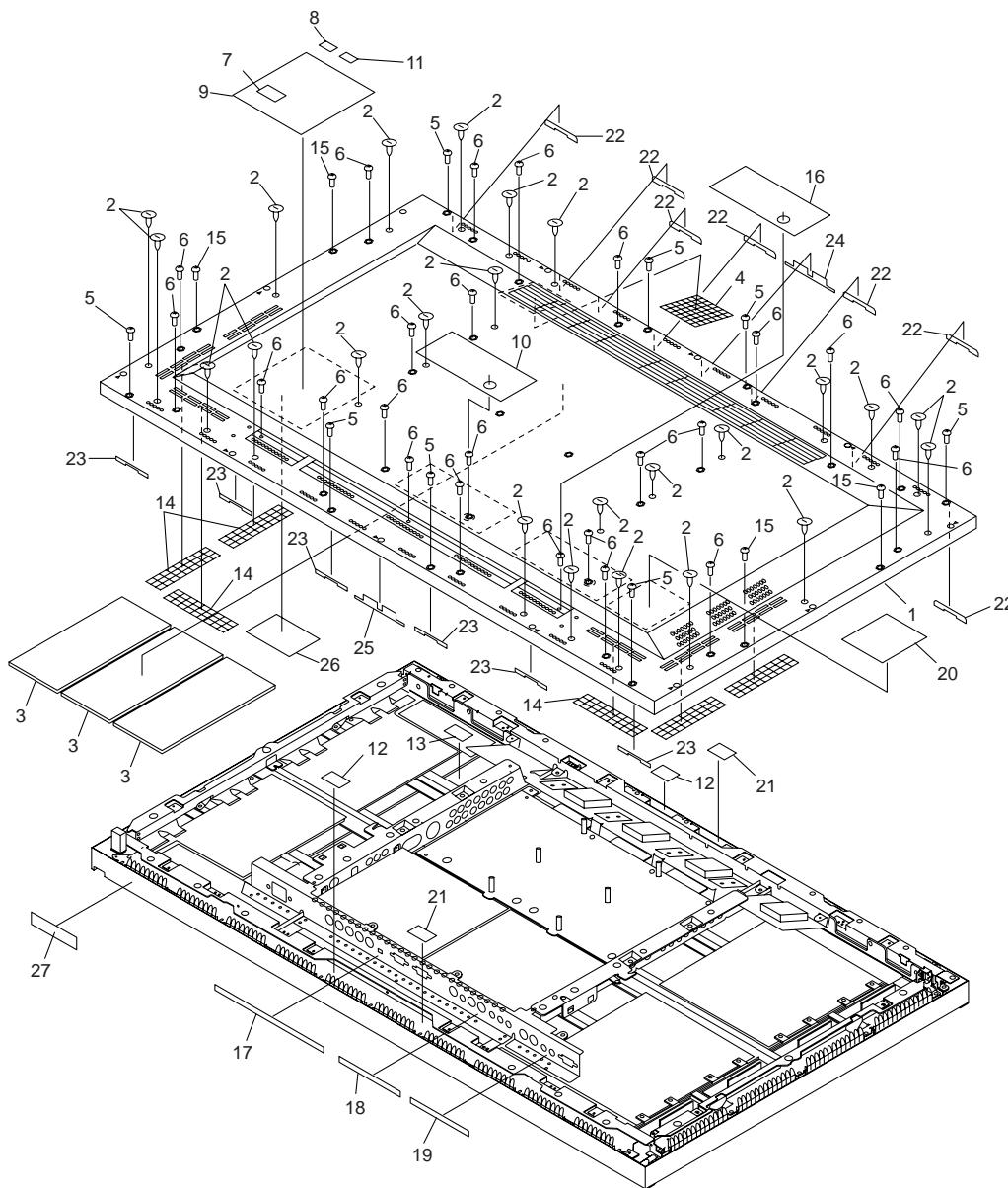
2.1 PACKING



PARTS LIST

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|---|-----|----------------------|----------|------|-----|---|----------|
| NSP | 1 | Battery (R6P,AA) | AEX-010 | | 16 | Side Carton | AHB1196 |
| | 2 | Rear Carton | AHB1201 | | 17 | Caution Sheet | ARM1146 |
| | 3 | Binder Assy | AEC1758 | | 18 | Protect Sheet | SHC-925 |
| | 4 | Wiping Cloth | AED1174 | | 19 | Carton Cover | AHD2975 |
| | 5 | Under Pad R | AHA2213 | | 20 | UNDER CARTON ASSY | AHD2976 |
|  | 6 | Under Pad L | AHA2214 | | 21 | Instruction Manual (501MX) (English, French) | ARE1337 |
| | 7 | AC Power Cord | ADG1178 | | 21 | Instruction Manual (V501X) (English, French) | ARE1339 |
| | 8 | Mirror Mat | AHG1284 | | 22 | Carton Spacer | AHB1198 |
| | 9 | Remote Control (SR) | AXD1437 | | 23 | Front Carton | AHB1200 |
| | 10 | Under Pad C | AHA2215 | | 24 | BNC Conversion Connector (501MX) | AKX1052 |
| | 11 | Upper Pad R | AHA2216 | NSP | 25 | Warranty Card (501MX) | ARY1094 |
| | 12 | Upper Pad L | AHA2217 | | 26 | Label | VRW1629 |
| | 13 | Upper Carton (501MX) | AHD2980 | | 27 | Literature Bag | AHG-117 |
| | 13 | Upper Carton (V501X) | AHD2979 | | 28 | Battery Cover | AZN2379 |
| | 14 | Upper Pad C | AHA2218 | | | | |
| | 15 | Plasma Caution Sheet | ARM1145 | | | | |

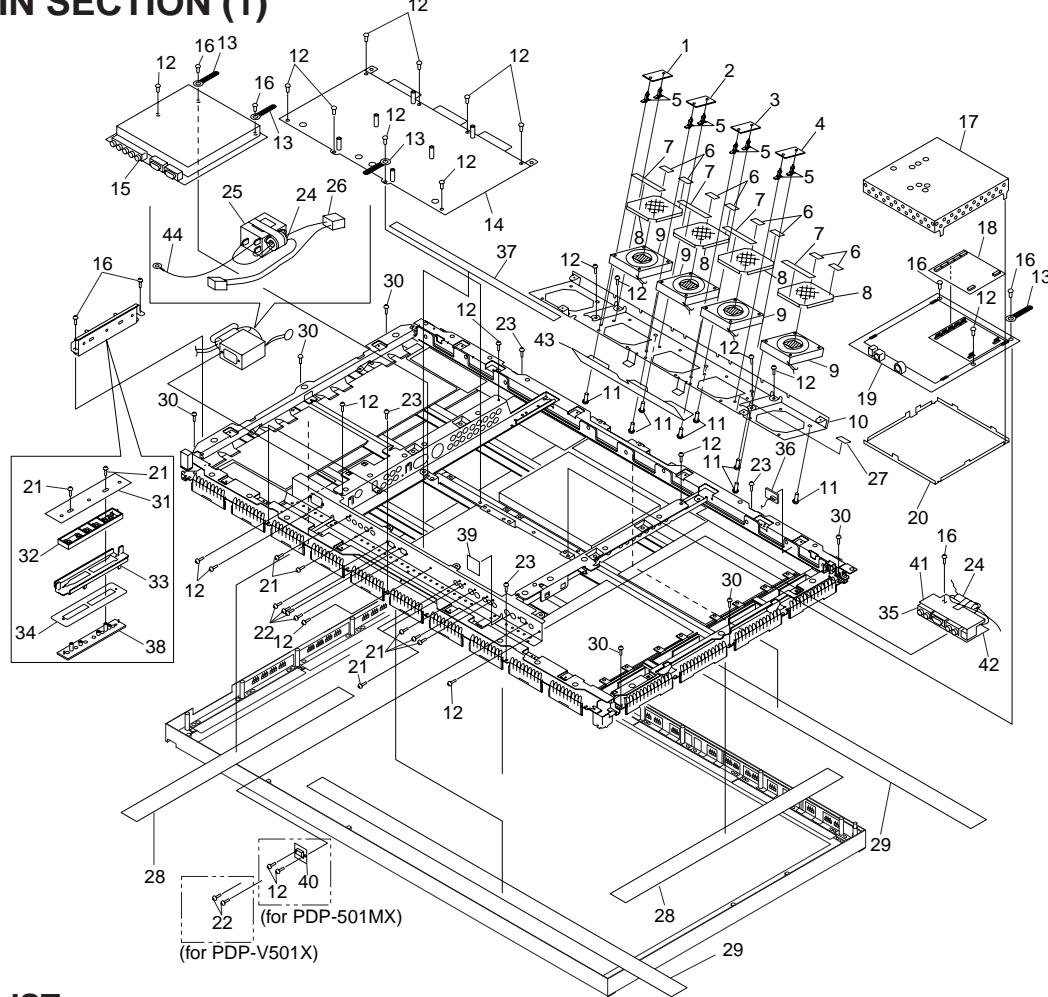
2.2 REAR CASE



PARTS LIST

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|--------------------------|------------------------|----------|------|--------------------------|----------------------------|----------|
| NSP | 1 | Rear Case (M) (501MX) | AMR3097 | NSP | 13 | Drive Voltage Label | ARW1077 |
| NSP | 1 | Rear Case (MB) (V501X) | AMR3100 | | 14 | Net R | AED1178 |
| 2 | Hole Rivet | AMR2969 | | 15 | Screw | BMZ40P120FMC | |
| 3 | Barrier | AMR3049 | | 16 | Terminal Label R (501MX) | AAX2663 | |
| 4 | Net F | AED1185 | | | 16 | Terminal Label R (V501X) | AAX2679 |
| 5 | Screw | BPZ40P160FZK | | | 17 | Terminal Label 3 | AAX2641 |
| 6 | Screw | AMZ30P100FZK | | | 18 | Terminal Label 2 | AAX2640 |
| NSP | 7 | UPC Code Label (501MX) | AAX2673 | | 19 | Terminal Label 1 | AAX2639 |
| NSP | 7 | UPC Code Label (V501X) | AAX2674 | NSP | 20 | Bolt Caution Label (501MX) | AAX2656 |
| NSP | 8 | Label | VRW1629 | | 20 | Bolt Caution Label (V501X) | AAX2681 |
| NSP | 9 | Name Label (501MX) | AAL2274 | | 21 | IC Protector Label (F) | AAX2675 |
| NSP | 9 | Name Label (V501X) | AAL2285 | | 22 | Rear Shield US | ANK1574 |
| 10 | Terminal Label L (501MX) | AAX2662 | | 23 | Rear Shield DS | ANK1575 | |
| 10 | Terminal Label L (V501X) | AAX2680 | | 24 | Rear Shield UB | ANK1576 | |
| NSP | 11 | Manufactured Label | AAX-372 | | 25 | Rear Shield DB | ANK1577 |
| | 12 | IC Protector Label | AAX2642 | | 26 | Solder Warning Label | AAX2644 |
| 6 | | | | | 27 | Serial Sheet | AAX1322 |

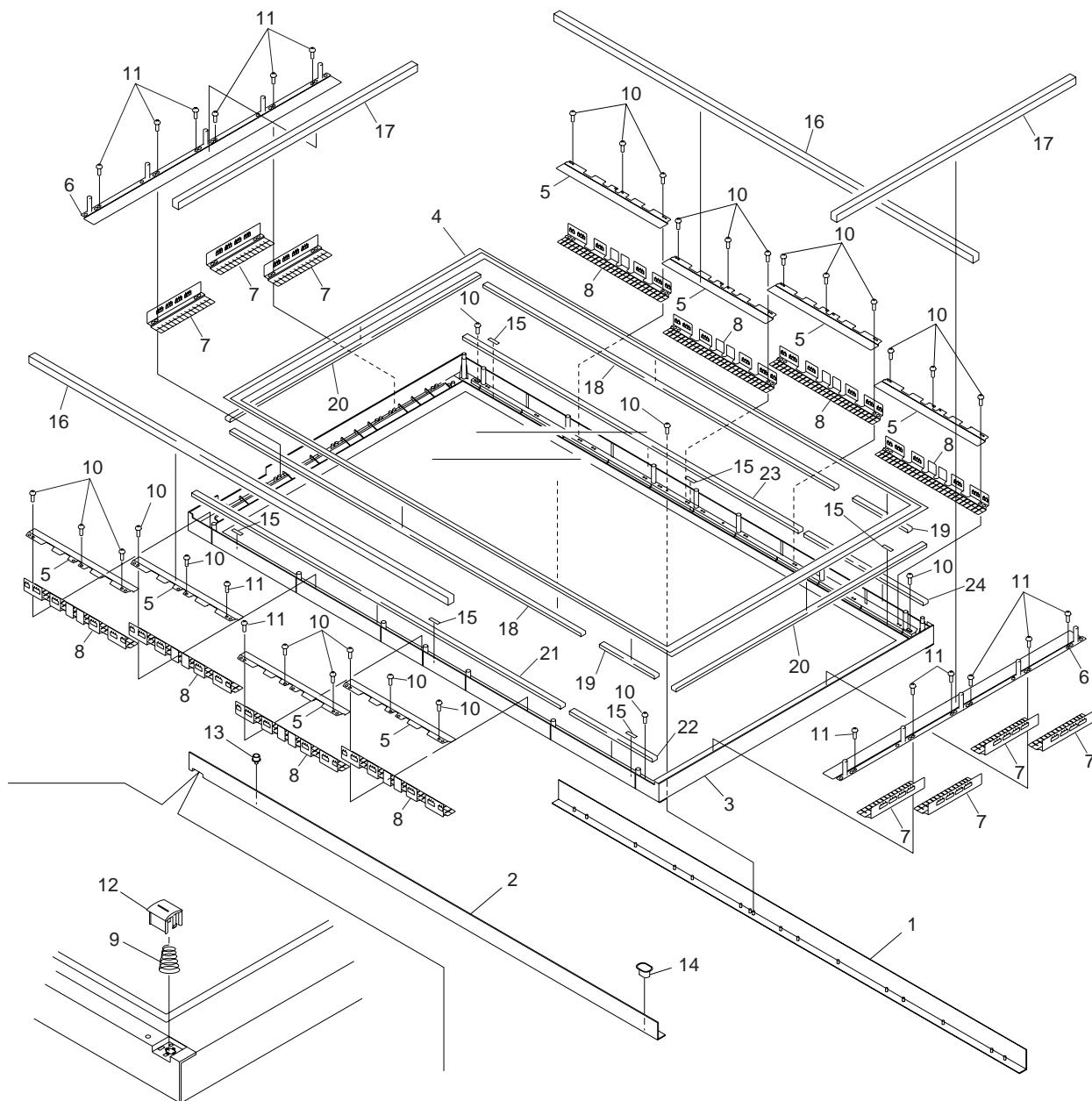
2.3 MAIN SECTION (1)



PARTS LIST

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----|---------------------|--------------|------|-----|-------------------------------|--------------|
| | 1 | DC FAN A ASSY | AWZ6323 | | 24 | Ferrite Core | ATX1031 |
| | 2 | DC FAN B ASSY | AWZ6324 | | 25 | AC Inlet with Filter | AKP1180 |
| | 3 | DC FAN C ASSY | AWZ6325 | | 26 | Housing Wire | ADX2406 |
| | 4 | DC FAN D ASSY | AWZ6326 | | 27 | SENSOR A ASSY | AWZ6309 |
| | 5 | Locking Card Spacer | AEC1736 | NSP | 28 | Panel Sheet B | AMR2958 |
| | 6 | Fan Cushion B | AEC1750 | | 29 | Panel Sheet H | AMR3035 |
| | 7 | Fan Cushion A | AEC1749 | | 30 | Screw | BMZ40P120FMC |
| | 8 | Fan Filter | DNH1548 | | 31 | SIDE SWITCH ASSY | AWZ6315 |
| | 9 | Fan Motor 80*25 | AXM1032 | NSP | 32 | Control Button | AAC1536 |
| NSP | 10 | Fan Angle | ANG2237 | | 33 | Control PCB Holder | ANG2292 |
| | 11 | Screw | PPZ50P100FZK | | 34 | Blind Cover | AMR3098 |
| | 12 | Screw | BMZ30P060FCU | | 35 | CONTROL ASSY | AWZ6307 |
| | 13 | Binder | AEP-215 | | 36 | SENSOR B ASSY | AWZ6310 |
| | 14 | Power Supply Module | AXY1029 | | 37 | Shield Gasket A | ANK1578 |
| | 15 | RGB ASSY | AWV1687 | | 38 | Control Name Plate (501MX) | AAK2719 |
| NSP | 16 | Screw | AMZ30P080FCU | | 38 | Control Name Plate (V501X) | AAK2720 |
| | 17 | Analog Shield A | ANK1536 | | 39 | Terminal Cover (501MX) | AMR3099 |
| | 18 | PROGRESSIVE BLOCK | AWZ6222 | NSP | 40 | Terminal Cover (232C) (501MX) | ANG2294 |
| | 19 | VIDEO ASSY | AWZ6305 | NSP | 41 | 232C Case A | ANK1567 |
| NSP | 20 | Analog Shield B | ANK1537 | | 42 | 232C Case B | ANK1568 |
| | 21 | Screw | BPZ30P080FZK | | 43 | Fan Barrier | AMR3124 |
| | 22 | Screw | BBA1017 | | 44 | Ground Wire (J13) | ADX2332 |
| | 23 | Screw | BPZ40P160FZK | | | | |

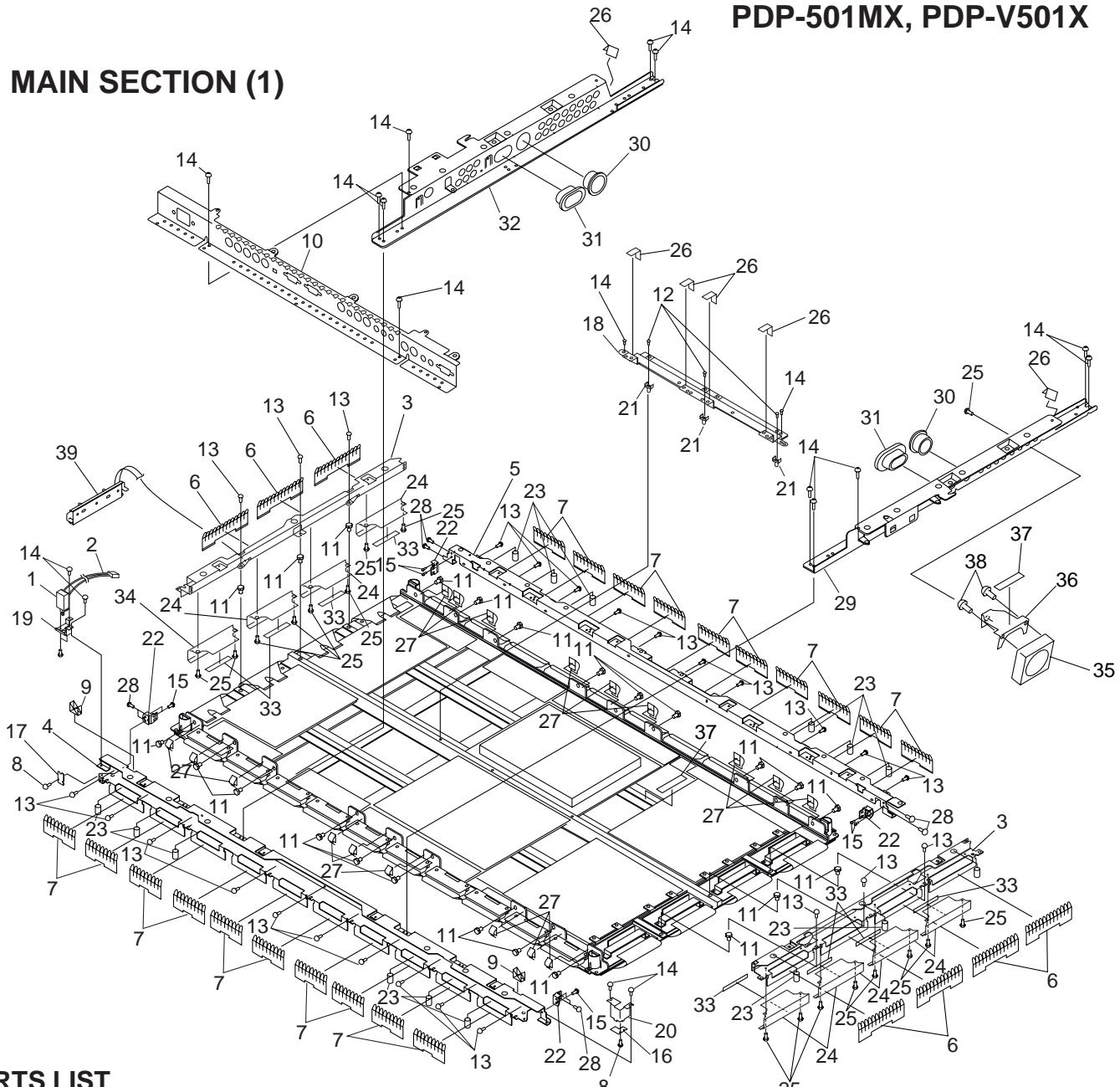
2.4 FRONT CASE SECTION



PARTS LIST

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----|------------------------|--------------|------|-----|-------------------|----------|
| | 1 | Sash U | AAP1583 | | 13 | LED Lens | AAK2695 |
| | 2 | Sash D (N) | AAP1591 | | 14 | Lens | AAK2703 |
| | 3 | Front Case (M) (501MX) | AMB2632 | NSP | 15 | Sheet | AED1176 |
| | 3 | Front Case (M) (V501X) | AMB2624 | | 16 | Panel Cushion 50H | AED1181 |
| | 4 | PROTECT PANEL ASSY | AMR3065 | | 17 | Panel Cushion 50V | AED1182 |
| NSP | 5 | Panel Holder H | ANG2228 | | 18 | Shield Gusket F | ANK1583 |
| | 6 | Panel Holder V | ANG2277 | | 19 | Shield Gusket E | ANK1582 |
| | 7 | Panel Shield FV | ANK1541 | | 20 | Shield Gusket D | ANK1581 |
| | 8 | Panel Shield FH | ANK1542 | | 21 | Shield Gusket G | ANK1584 |
| | 9 | Coil Spring | ABH1103 | | 22 | Shield Gusket H | ANK1585 |
| | 10 | Screw | PMZ40P080FMC | | 23 | Shield Gusket C | ANK1580 |
| | 11 | Screw | BPZ40P080FZK | | 24 | Shield Gusket B | ANK1579 |
| | 12 | Power Button | AAD4101 | | | | |

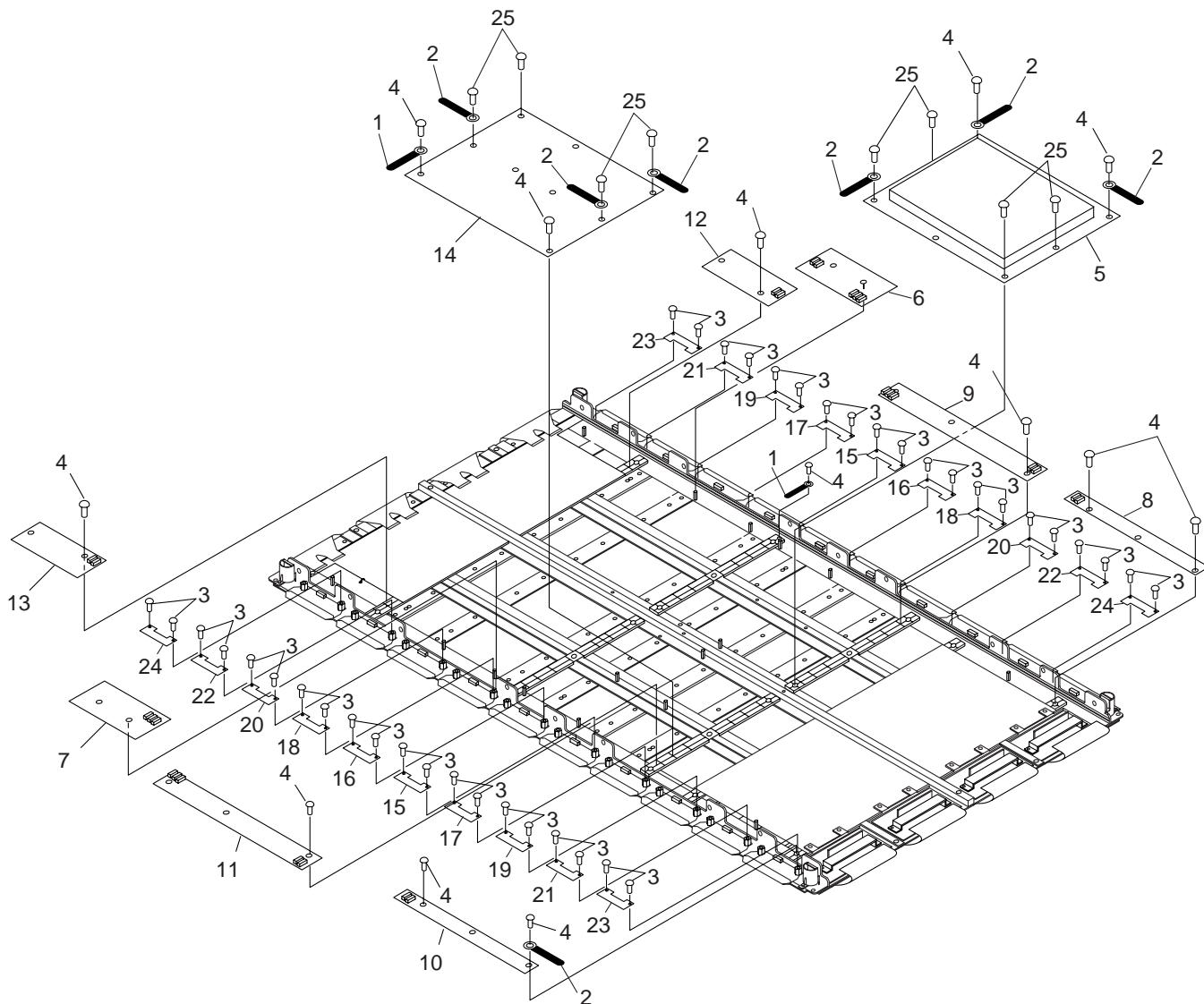
2.5 MAIN SECTION (1)



PARTS LIST

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----|--------------------|--------------|------|-----|------------------|--------------|
| ▲ | 1 | Power Switch | ASG1082 | NSP | 21 | PCB Mold | AMR2115 |
| | 2 | Housing Wire (J12) | ADX2407 | | 22 | Corner Holder | AMR3067 |
| | 3 | Frame V | ANG2232 | | 23 | VCP Cap | AEC1760 |
| | 4 | Frame HD | ANG2233 | | 24 | FPC Shield | ANK1550 |
| | 5 | Frame HU | ANG2234 | | 25 | Screw | BBZ30P060FMC |
| | 6 | Panel Shield RV | ANK1539 | | 26 | Frame Sheet | AED1173 |
| | 7 | Panel Shield RH | ANK1540 | | 27 | Shield Finger | ABX1004 |
| | 8 | Nylon Rivet | AEC1671 | | 28 | Screw | AMZ30P100FZK |
| | 9 | Edging Saddle | AEC1737 | | 29 | Sub Frame R | ANG2303 |
| | 10 | Terminal Panel | ANG2310 | NSP | 30 | Bush A | AEC1738 |
| | 11 | Well Nut | ABN1029 | NSP | 31 | Bush C | AEC1740 |
| | 12 | Screw | AMZ30P140FCU | | 32 | Sub Frame L | ANG2236 |
| | 13 | Screw | BMB30P140FZK | | 33 | FPC Cushion | AEB1341 |
| | 14 | Screw | BMZ30P060FCU | | 34 | FPC Shield (M) | ANK1561 |
| | 15 | Screw | | | 35 | Fan Motor | AXM1026 |
| | 16 | IR RECEIVER ASSY | AWZ6224 | | 36 | Fan Angle B | ANG2301 |
| | 17 | INDICATOR ASSY | AWZ6225 | | 37 | Fan Cushion B | AEC1750 |
| NSP | 18 | Center Frame | ANG2230 | | 38 | Screw | PPZ50P100FZK |
| NSP | 19 | Switch Holder | ANG2239 | | 39 | Side Switch Assy | AWZ6315 |
| NSP | 20 | Holder | ANG2240 | | | | |

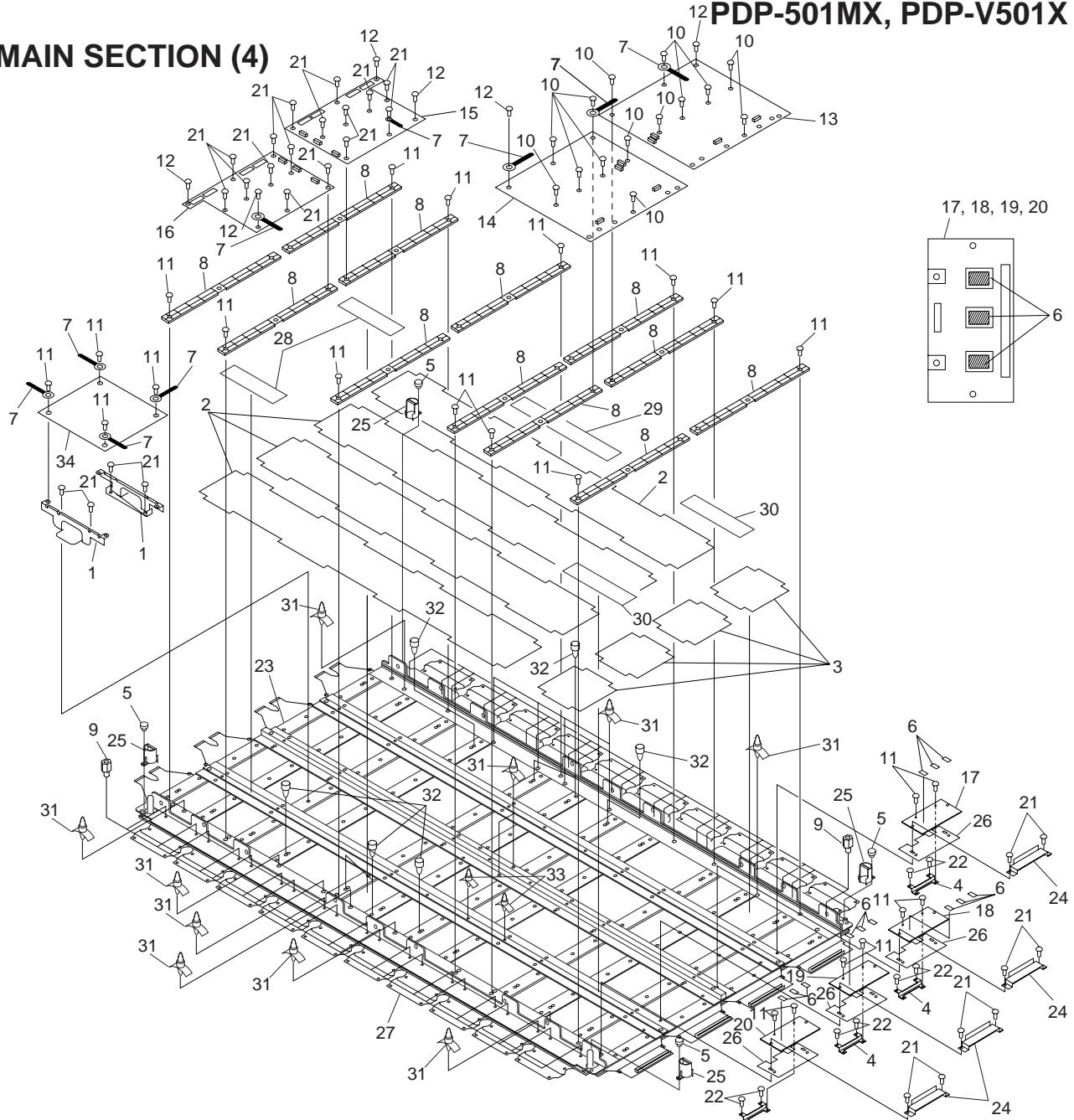
2.6 MAIN SECTION (3)



PARTS LIST

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----|--------------------|--------------|------|-----|----------------|--------------|
| 1 | | Binder | AEC-826 | 14 | | U-CON ASSY | AWV1689 |
| 2 | | Binder | AEP-215 | 15 | | PUMP UP A ASSY | AWZ6249 |
| 3 | | Screw | BMZ30P040FMC | 16 | | PUMP UP B ASSY | AWZ6250 |
| 4 | | Screw | BPZ30P080FZK | 17 | | PUMP UP C ASSY | AWZ6251 |
| 5 | | DIGITAL VIDEO ASSY | AWV1728 | 18 | | PUMP UP D ASSY | AWZ6252 |
| 6 | | CABLE E ASSY | AWZ6218 | 19 | | PUMP UP E ASSY | AWZ6253 |
| 7 | | CABLE F ASSY | AWZ6219 | 20 | | PUMP UP F ASSY | AWZ6254 |
| 8 | | CABLE A ASSY | AWZ6214 | 21 | | PUMP UP G ASSY | AWZ6255 |
| 9 | | CABLE B ASSY | AWZ6215 | 22 | | PUMP UP H ASSY | AWZ6256 |
| 10 | | CABLE C ASSY | AWZ6216 | 23 | | PUMP UP K ASSY | AWZ6257 |
| 11 | | CABLE D ASSY | AWZ6217 | 24 | | PUMP UP L ASSY | AWZ6258 |
| 12 | | CABLE G ASSY | AWZ6220 | 25 | | Screw | AMZ30P140FCU |
| 13 | | CABLE H ASSY | AWZ6221 | | | | |

2.7 MAIN SECTION (4)



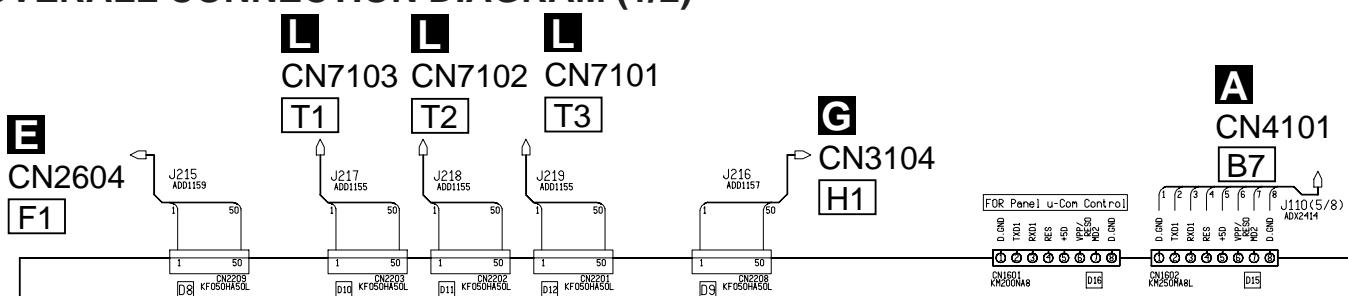
PARTS LIST

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----|----------------|--------------|------|-----|----------------------|--------------|
| NSP | 1 | 3D Y/C Holder | ANG2293 | NSP | 18 | SCAN B ASSY | AWZ6227 |
| | 2 | Panel Shield L | ANK1548 | | 19 | SCAN C ASSY | AWZ6228 |
| | 3 | Panel Shield S | ANK1553 | | 20 | SCAN D ASSY | AWZ6229 |
| | 4 | Hot Plate | ANG2231 | | 21 | Screw | AMZ30P080FCU |
| NSP | 5 | Rivet | AEC1748 | | 22 | Screw | IPZ30P080FCU |
| | 6 | Sheet | AEH1027 | NSP | 23 | FRAME ASSY(AL) | ANA1544 |
| | 7 | Binder | AEP-215 | | 24 | Scan Heatsink | ANH1544 |
| | 8 | PCB Spacer | AMR3037 | | 25 | Tube Cover | AMR3036 |
| | 9 | Spacer | AEF1026 | | 26 | PVC Sheet | AMR3038 |
| | 10 | Screw | AMZ30P140FCU | | 27 | PLASMA PANEL ASSY | AAV1229 |
| | 11 | Screw | BMZ30P060FCU | | 28 | Frame Barrier X | AMR3062 |
| | 12 | Screw | BPZ30P080FZK | | 29 | Frame Barrier C | AMR3063 |
| | 13 | Y DRIVE A ASSY | AWV1695 | | 30 | Frame Barrier Y | AMR3064 |
| NSP | 14 | Y DRIVE B ASSY | AWV1696 | | 31 | Circuit Board Spacer | AEC1744 |
| | 15 | X DRIVE A ASSY | AWZ6242 | | 32 | PCB Spacer | AEC1573 |
| | 16 | X DRIVE B ASSY | AWZ6243 | | 33 | Circuit Board Spacer | AEC1743 |
| | 17 | SCAN A ASSY | AWZ6226 | | 34 | 3D Y/C SEP. ASSY | AWZ6332 |

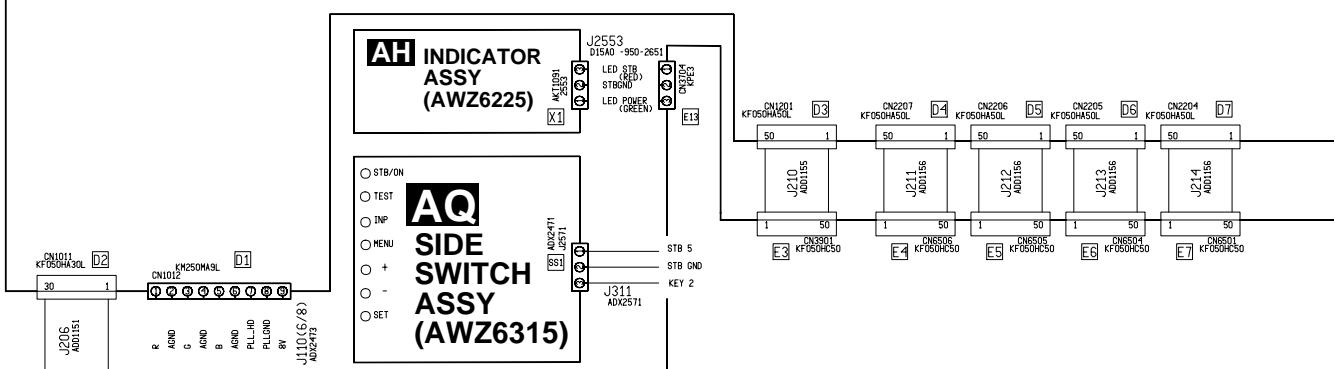
PDP-501MX, PDP-V501X

3. SCHEMATIC DIAGRAM

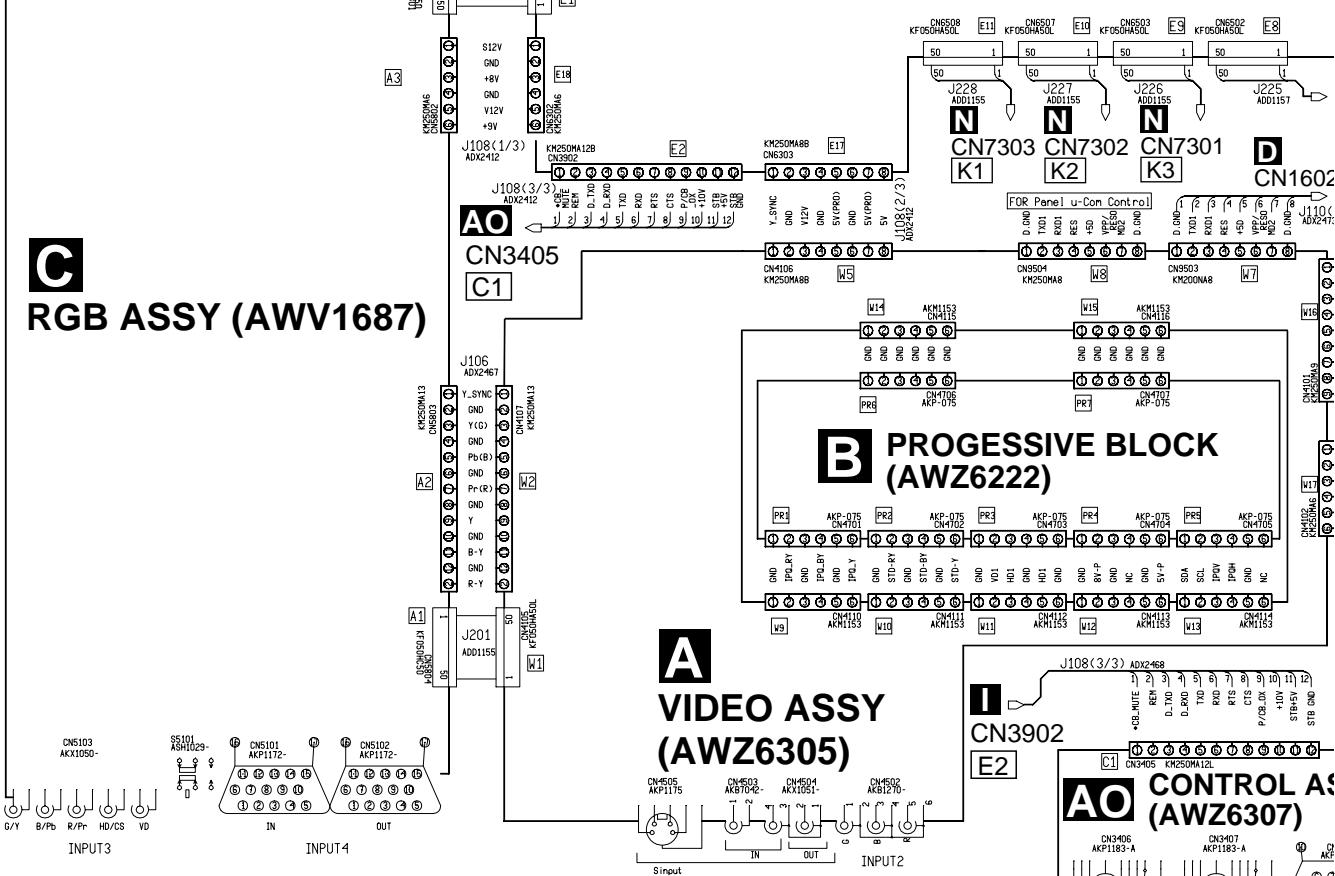
3.1 OVERALL CONNECTION DIAGRAM (1/2)



D DIGITAL VIDEO ASSY (AWV1728)



I U-CON ASSY (AWV1689)

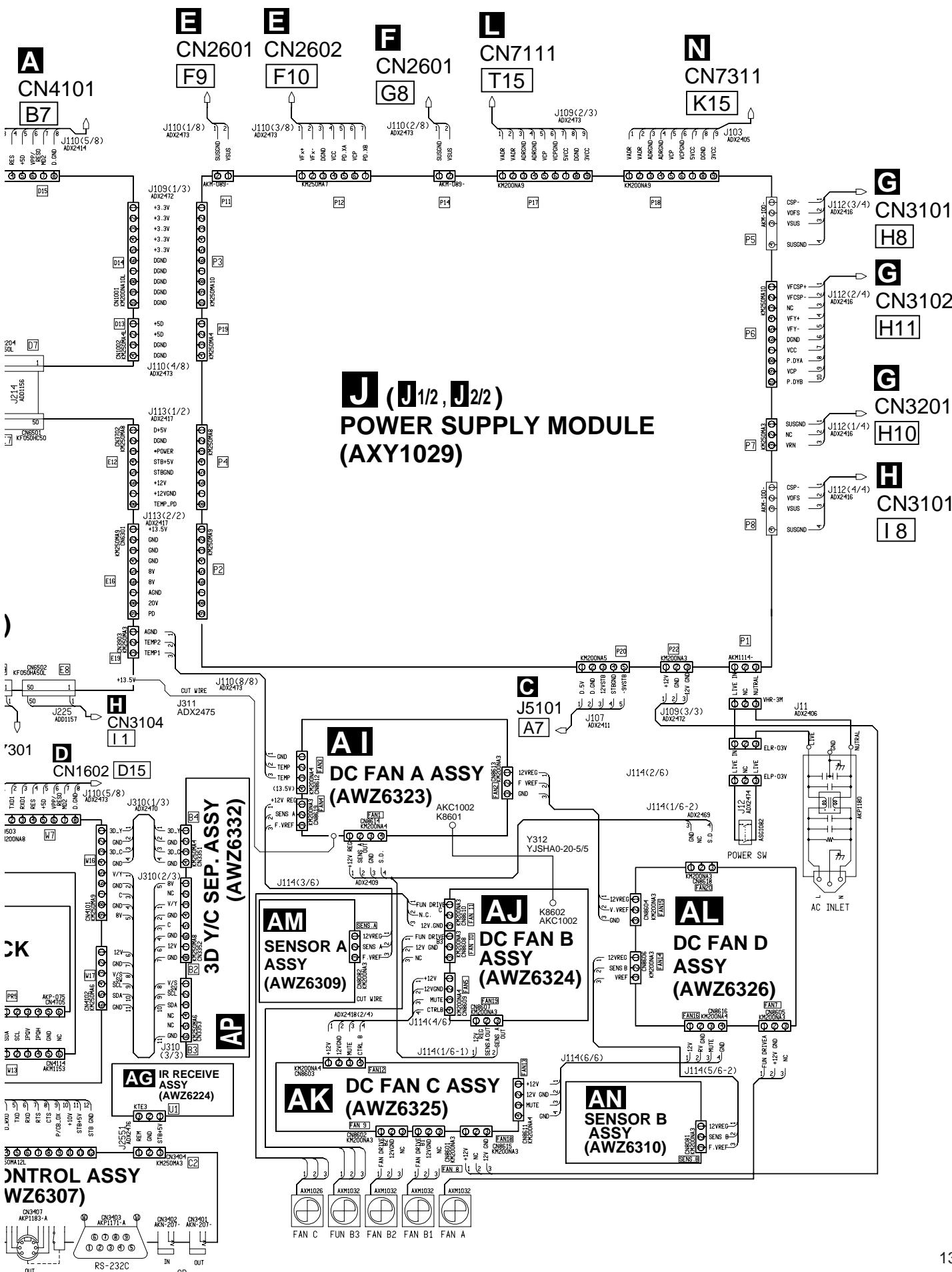


A
VIDEO ASSY
(AWZ6305)

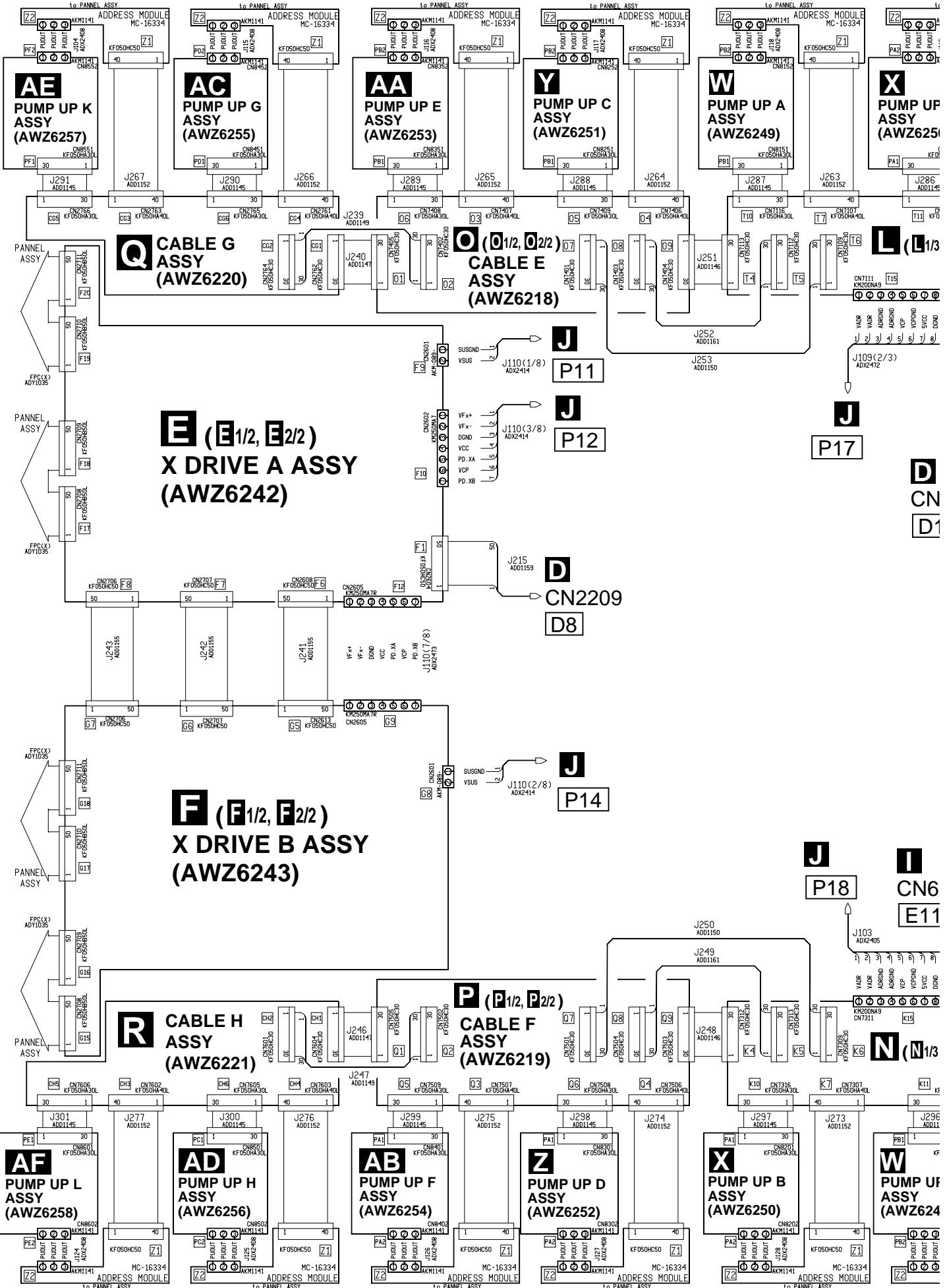
B PROGRESSIVE BLOCK (AWZ6222)

C RGB ASSY (AWV1687)

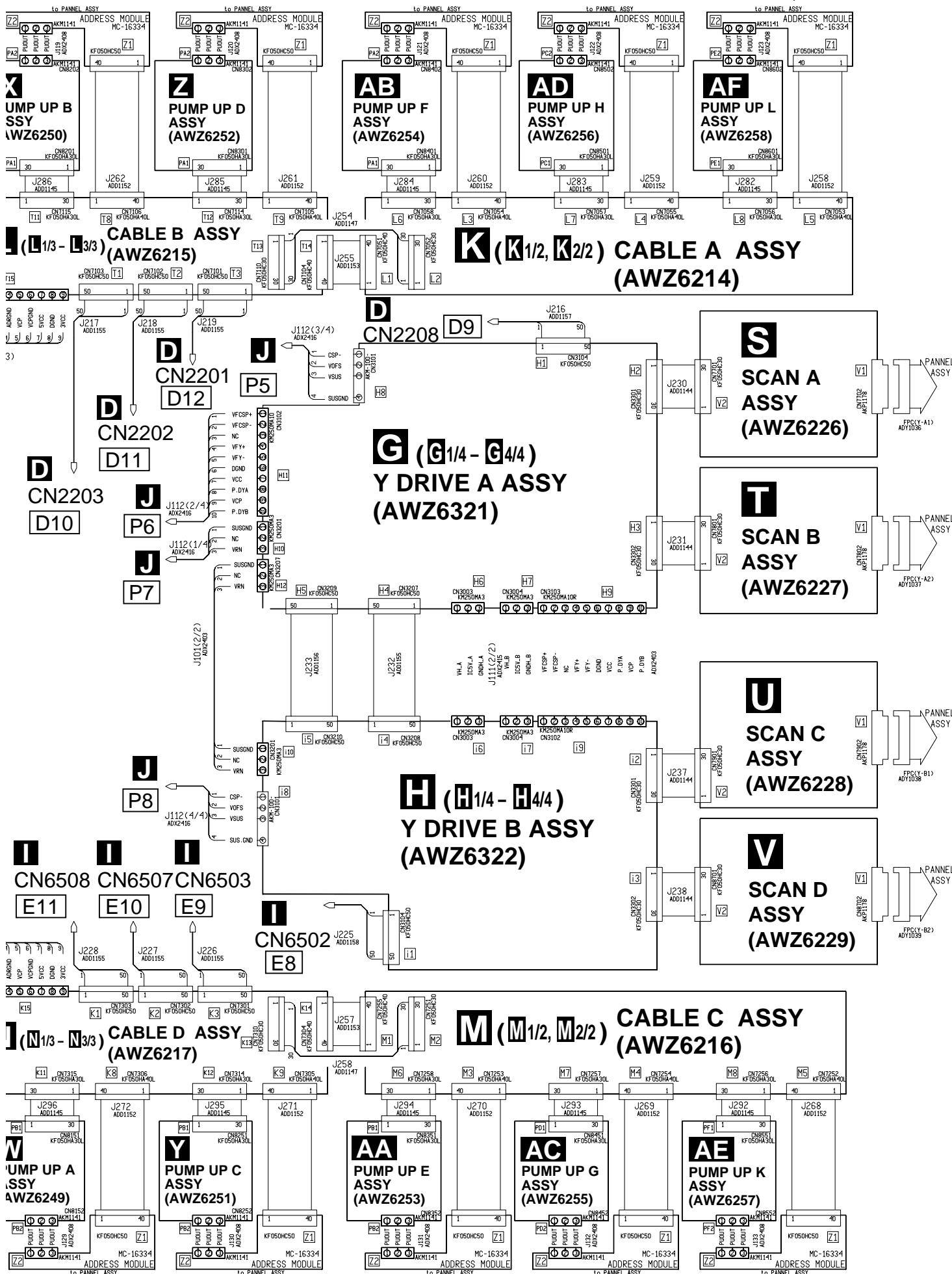
Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"



PDP-501MX, PDP-V501X | 3.2 OVERALL CONNECTION DIAGRAM (2/2)



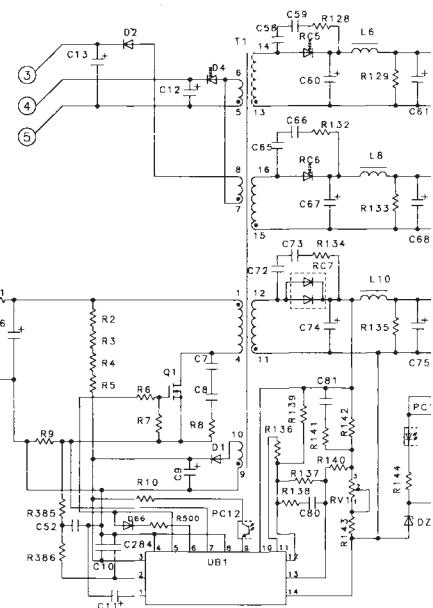
PDP-501MX, PDP-V501X



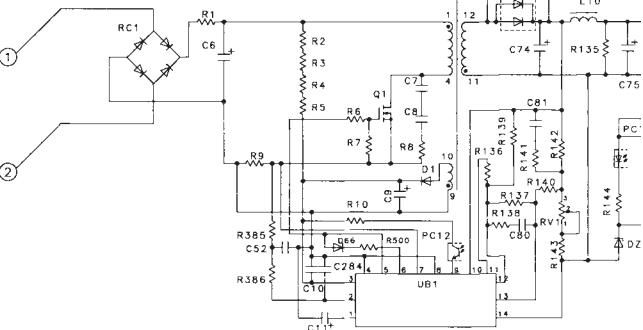
PDP-501MX, PDP-V501X

3.3 POWER SUPPLY MODULE (1/2)

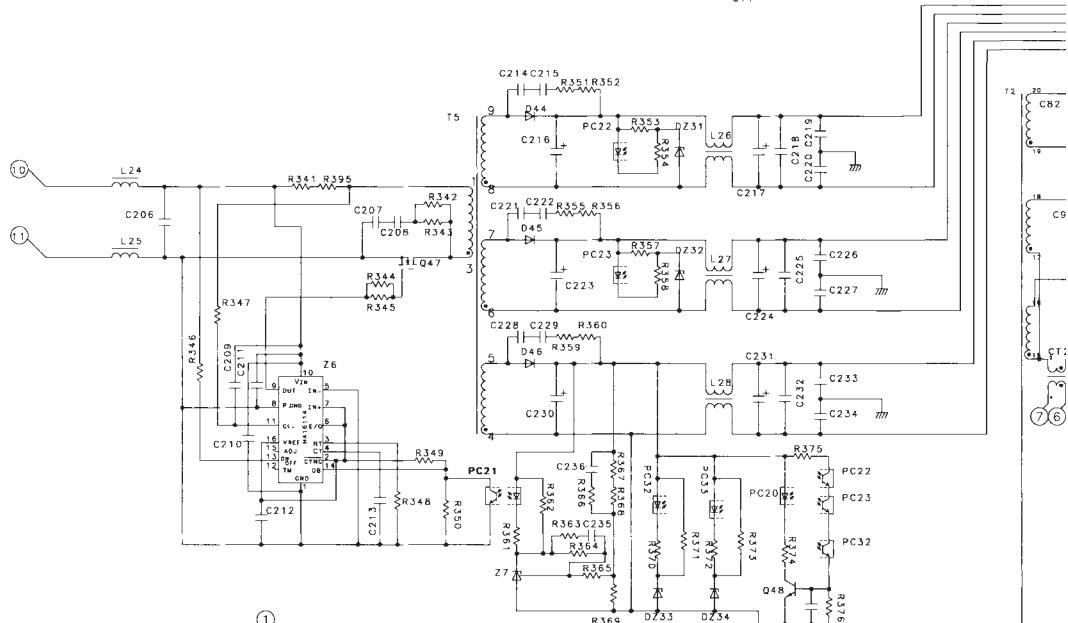
J POWER SUPPLY MODULE (1/2) (AXY1029)



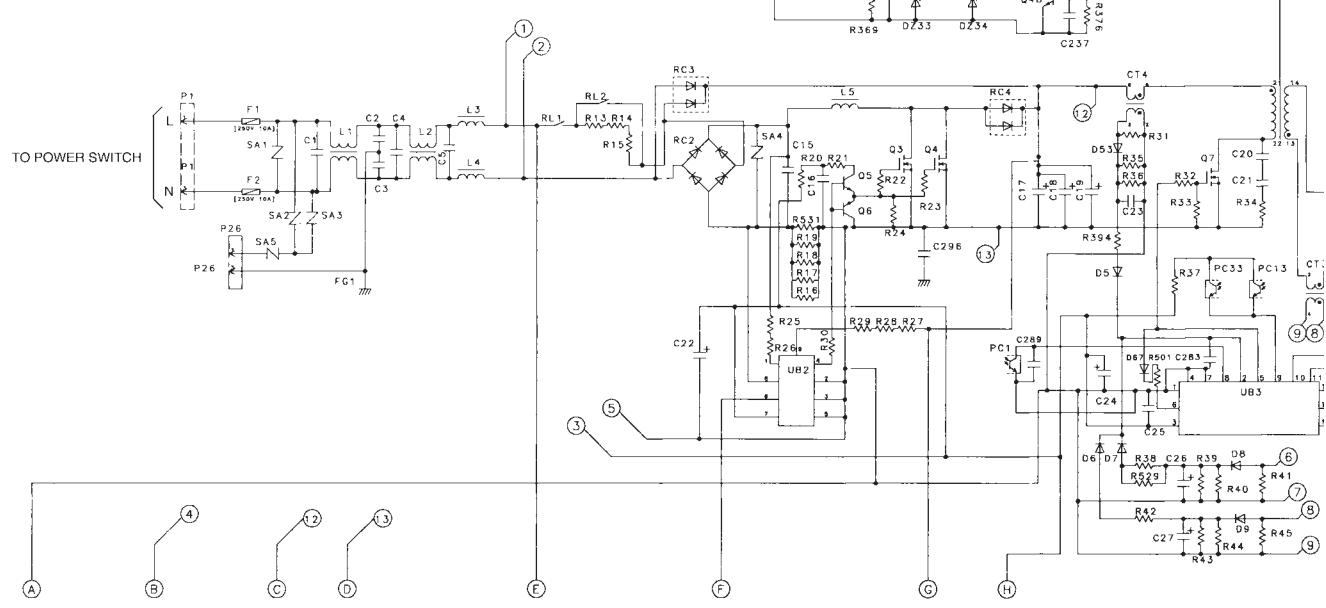
A



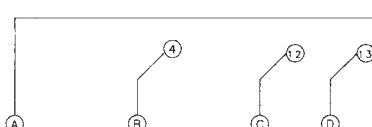
B



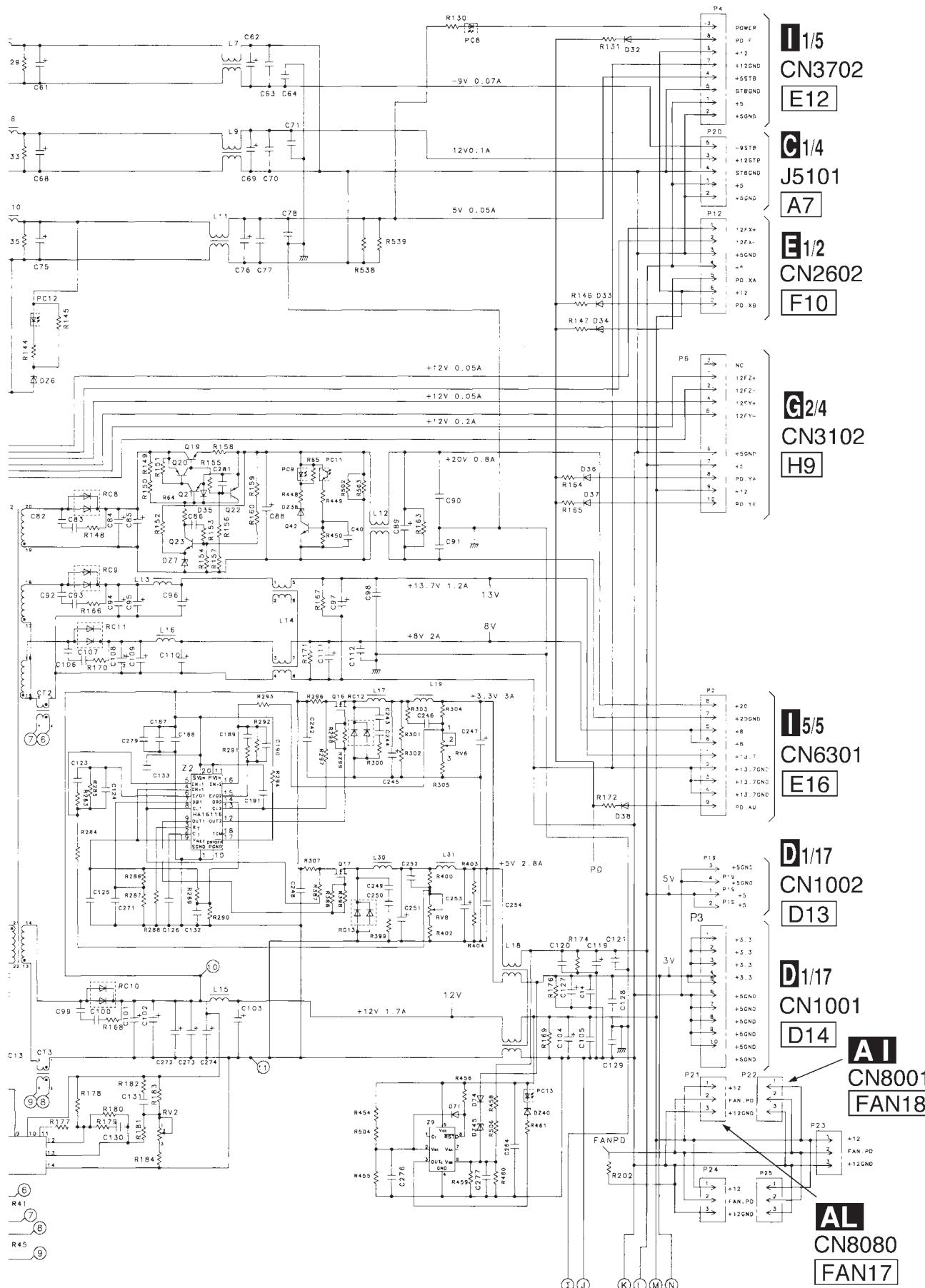
C



D



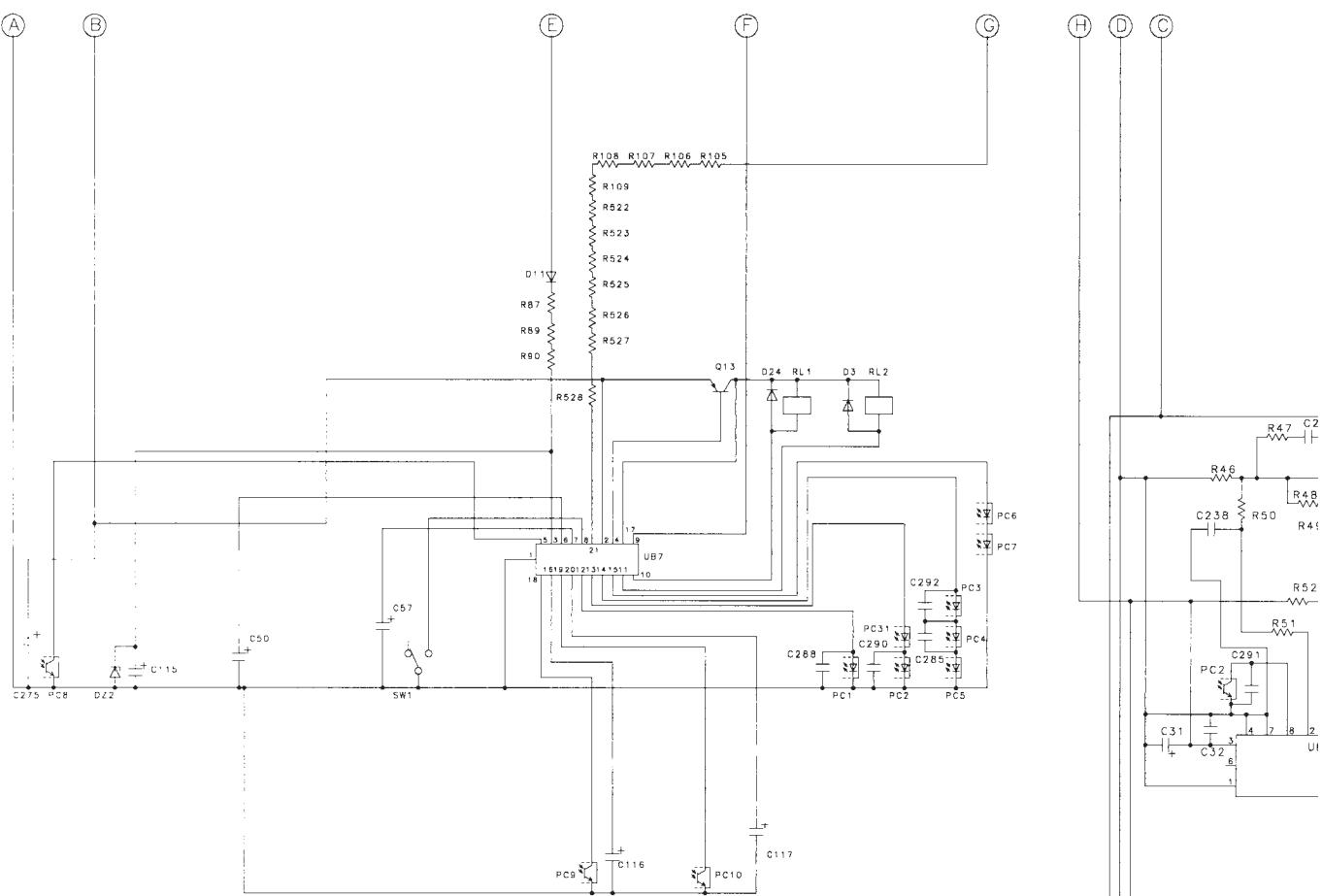
PDP-501MX, PDP-V501X



PDP-501MX, PDP-V501X

3.4 POWER SUPPLY MODULE (2/2)

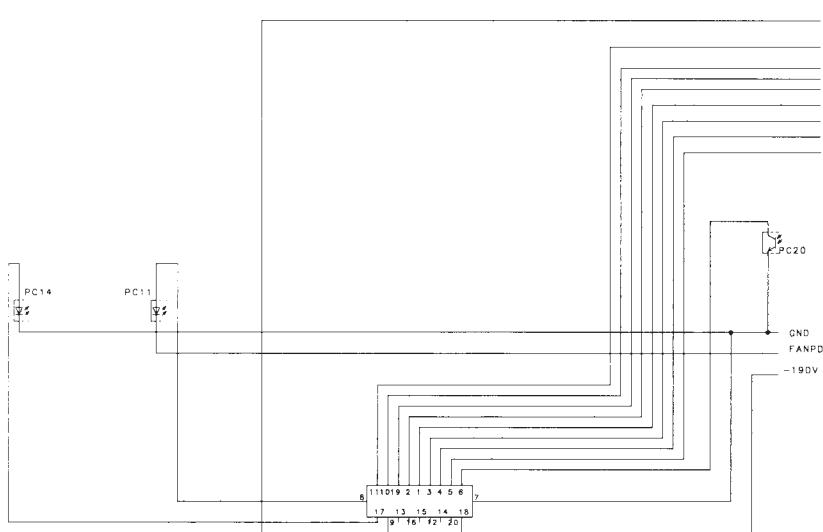
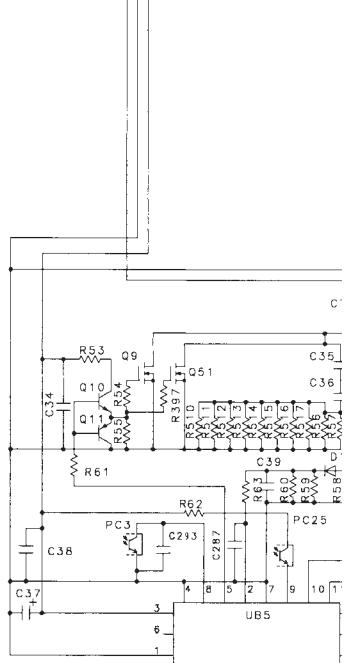
A



B

C

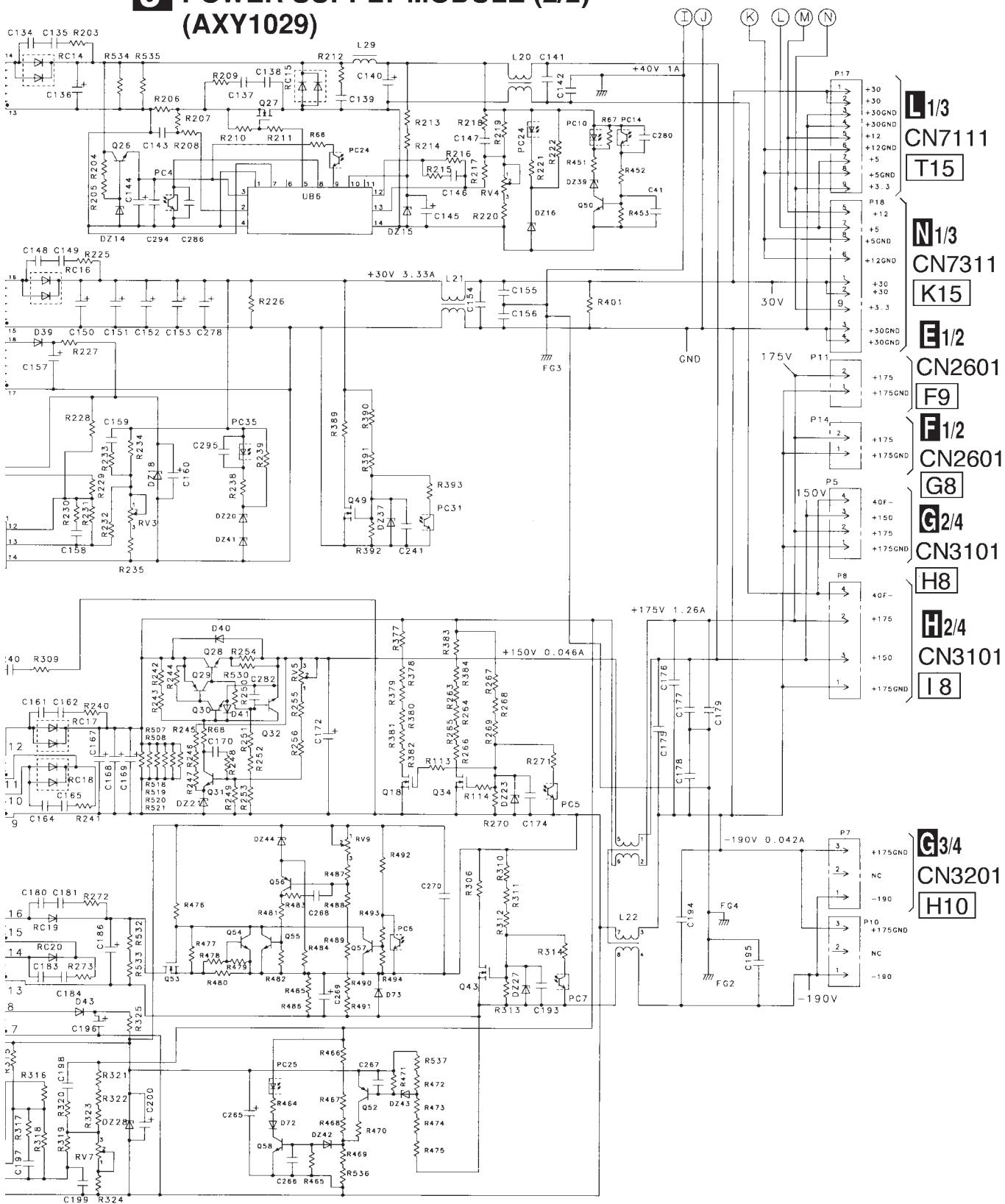
D



18

J 2/2

J POWER SUPPLY MODULE (2/2) (AXY1029)



A

B

C

D

J 2/2 19

4. PCB CONNECTION DIAGRAM

There is no information to be shown in this chapter.

5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

| | | | | | | |
|-----|---------------|------------------|---------------|-----|-------|-----------------|
| 560 | \rightarrow | 56×10^1 | \rightarrow | 561 | | RD1/4PU 5 6 J J |
| 47k | \rightarrow | 47×10^3 | \rightarrow | 473 | | RD1/4PU 4 7 3 J |
| 0.5 | \rightarrow | R50 | | | | RN2H R 5 0 K |
| 1 | \rightarrow | IR0 | | | | RS1P I R 0 K |

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

| | | | | | | |
|-------|---------------|-------------------|---------------|------|-------|-------------------|
| 5.62k | \rightarrow | 562×10^1 | \rightarrow | 5621 | | RNI/4PC 5 6 2 1 F |
|-------|---------------|-------------------|---------------|------|-------|-------------------|

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|---------------------------|-----|---------------------|----------|------------------------------------|---------------------|-------------|----------|
| LIST OF ASSEMBLIES | | | | | | | |
| | | DIGITAL VIDEO ASS'Y | AWV1728 | NSP | X DRIVE A ASS'Y | AWV1692 | |
| | | CONNECTOR ASS'Y | AWV1647 | | — CABLE E ASS'Y | AWZ6218 | |
| NSP | | — CABLE A ASS'Y | AWZ6214 | | — X DRIVE A ASS'Y | AWZ6242 | |
| | | — CABLE B ASS'Y | AWZ6215 | | — SENSER A ASSY | AWZ6309 | |
| | | — CABLE C ASS'Y | AWZ6216 | | — SENSER B ASSY | AWZ6310 | |
| | | — CABLE D ASS'Y | AWZ6217 | Y DRIVE A ASS'Y | AWV1695 | | |
| | | — CABLE G ASS'Y | AWZ6220 | | — Y DRIVE A ASS'Y | AWZ6321 | |
| | | — CABLE H ASS'Y | AWZ6221 | | — DC FAN A ASSY | AWZ6323 | |
| | | SCAN ASS'Y | AWV1653 | | — DC FAN B ASSY | AWZ6324 | |
| NSP | | — PROGRESSIVE BLOCK | AWZ6222 | Y DRIVE B ASS'Y | AWV1696 | | |
| | | — IR RECEIVER ASS'Y | AWZ6224 | | — Y DRIVE B ASS'Y | AWZ6322 | |
| | | — INDICATOR ASS'Y | AWZ6225 | | — DC FAN C ASSY | AWZ6325 | |
| | | — SCAN A ASS'Y | AWZ6226 | | — DC FAN D ASSY | AWZ6326 | |
| | | — SCAN B ASS'Y | AWZ6227 | NSP | X DRIVE B ASS'Y | AWV1698 | |
| | | — SCAN C ASS'Y | AWZ6228 | | — CABLE F ASS'Y | AWZ6219 | |
| | | — SCAN D ASS'Y | AWZ6229 | | — X DRIVE B ASS'Y | AWZ6243 | |
| NSP | | PUMP UP ASSY | AWV1656 | 3D Y/C SEP. ASS'Y | AWV1709 | | |
| | | — PUMP UP A ASSY | AWZ6249 | | — SIDE SWITCH A | AWZ6315 | |
| | | — PUMP UP B ASSY | AWZ6250 | | — 3D Y/C SEP. ASS'Y | AWZ6332 | |
| | | — PUMP UP C ASSY | AWZ6251 | POWER SUPPLY MODULE | AXY1029 | | |
| | | — PUMP UP D ASSY | AWZ6252 | | | | |
| | | — PUMP UP E ASSY | AWZ6253 | D DIGITAL VIDEO ASS'Y | | | |
| | | — PUMP UP F ASSY | AWZ6254 | | | | |
| | | — PUMP UP G ASSY | AWZ6255 | SEMICONDUCTORS | | | |
| | | — PUMP UP H ASSY | AWZ6256 | | | | |
| | | — PUMP UP K ASSY | AWZ6257 | IC1131,IC1151,IC1171 | CXA3026Q | | |
| | | — PUMP UP L ASSY | AWZ6258 | IC1242 | CXA3106Q | | |
| NSP | | ANALOG VIDEO ASS'Y | AWV1685 | IC1601 | HD64F3048F16 | | |
| | | — VIDEO ASS'Y | AWZ6305 | IC1056 | KIA431F | | |
| | | — CONTROL ASS'Y | AWZ6307 | IC1301 | PD4891B | | |
| | | RGB ASS'Y | AWV1687 | IC1351 | PD4892A | | |
| | | U-CON ASS'Y | AWV1689 | IC1401,IC1451,IC1501 | PD4893B | | |
| | | | | IC1551 | PD4894A | | |
| | | | | IC1271 | PD5447A | | |
| | | | | IC1286 | PDY038B | | |
| | | | | IC1603 | PST9146N | | |
| | | | | IC1001-IC1004 | TA78M05F | | |
| | | | | IC1901,IC1902,IC1951,IC1955-IC1957 | TC74LCX541FT | | |
| | | | | IC1201,IC1221,IC1903-IC1906 | TC74VHC541FT | | |
| | | | | IC1952-IC1954,IC2001-IC2010 | TC74VHC541FT | | |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-------------------------|--------------------------------------|-------------|-----------------|------|-----------------------------------|-------------|---------------|
| | IC2101-IC2110 | | TC74VHC541FT | | C1241 | | CEV470M16 |
| | IC1046 | | TC74VHCT541AFT | | C1602 | | CEV4R7M35 |
| | IC1273 | | TC7SET00FU | | C1273 | | CFHSQ103J16 |
| | IC1272 | | TC7SET08FU | | C1616 | | CKSQYB102K50 |
| | IC1243,IC1244 | | TC7SH04FU | | C1073 ,C1075 ,C1083 ,C1085 ,C1093 | | CKSQYB103K50 |
| | IC1651,IC1652 | | TC7W08FU | | C1095 ,C1259 ,C1281 ,C1559 ,C1603 | | CKSQYB103K50 |
| | IC1604 | | TC7W14FU | | C1607 ,C1609 ,C1651 ,C1652 | | CKSQYB103K50 |
| | IC1241 | | UPC78L05T | | C1002 ,C1004 ,C1008 ,C1010 ,C1014 | | CKSQYF104Z25 |
| | IC1701,IC1702,IC1751,IC1752 | | UPD481850GF-A12 | | C1016 ,C1020 ,C1022 ,C1032 ,C1034 | | CKSQYF104Z25 |
| | IC1801,IC1802 | | UPD481850GF-A12 | | C1036 ,C1038 ,C1047 ,C1058 | | CKSQYF104Z25 |
| | Q1072 ,Q1073 ,Q1082 ,Q1083 | | 2SA1037K | | C1063 ,C1064 ,C1071 ,C1072 | | CKSQYF104Z25 |
| | Q1092 ,Q1093 | | 2SA1037K | | C1081 ,C1082 ,C1091 ,C1092 | | CKSQYF104Z25 |
| | Q1071 ,Q1074 ,Q1081 ,Q1084 ,Q1091 | | 2SC2412K | | C1102 ,C1103 ,C1112 ,C1113 | | CKSQYF104Z25 |
| | Q1094 ,Q1102 ,Q1103 ,Q1112 ,Q1113 | | 2SC2412K | | C1122 ,C1123 ,C1131 ,C1132 | | CKSQYF104Z25 |
| | Q1122 ,Q1123 | | 2SC2412K | | C1134 -C1139 ,C1141 ,C1143 ,C1144 | | CKSQYF104Z25 |
| | D1601 -D1603 | | 1SS352 | | C1146 ,C1151 ,C1152 ,C1154 -C1159 | | CKSQYF104Z25 |
| | D1901 | | AEL1171 | | C1161 ,C1163 ,C1164 ,C1166 | | CKSQYF104Z25 |
| COIL AND FILTERS | | | | | | | |
| | F1017 -F1020 | | ATF1184 | | C1171 ,C1172 ,C1174 -C1179 ,C1181 | | CKSQYF104Z25 |
| | F1551 -F1556 ,F1561 ,F1562 | | ATF1188 | | C1183 ,C1184 ,C1186 ,C1202 ,C1222 | | CKSQYF104Z25 |
| | F1901 -F1908 ,F1951 -F1954 | | ATF1188 | | C1242 ,C1244 ,C1246 -C1253 ,C1255 | | CKSQYF104Z25 |
| | F2001 -F2010 ,F2101 -F2110 | | ATF1188 | | C1260 ,C1266 ,C1267 ,C1272 ,C1279 | | CKSQYF104Z25 |
| | F1001 -F1014 ,F1241 ,F1242 ,F1921 | | ATF1189 | | C1282 -C1284 ,C1287 ,C1288 | | CKSQYF104Z25 |
| | F1971 ,F1972 | | ATF1189 | | C1290 -C1292 ,C1294 ,C1296 ,C1297 | | CKSQYF104Z25 |
| SWITCH AND RELAY | | | | | | | |
| | S1601 | | ASG9003 | | C1601 ,C1610 -C1613 ,C1701 -C1712 | | CKSQYF104Z25 |
| CAPACITORS | | | | | | | |
| | C1262 ,C1268 (0.33μF/16V) | | ACE1116 | | C1751 -C1762 ,C1801 -C1812 | | CKSQYF104Z25 |
| | C1301 -C1310 ,C1351 -C1362 (1μF/16V) | | ACG1051 | | RESISTORS | | |
| | C1401 -C1412 ,C1451 -C1462 (1μF/16V) | | ACG1051 | | R1140 -R1143 ,R1160 -R1163 | | RA4C220J |
| | C1501 -C1512 ,C1551 -C1555 (1μF/16V) | | ACG1051 | | R1180 -R1183 ,R1211 ,R1212 ,R1275 | | RA4C220J |
| | C1261 ,C1617 -C1621 | | CCSQCH101J50 | | R1201 ,R1202 ,R1213 ,R1214 | | RA4C470J |
| | C1203 -C1210 ,C1256 -C1258 ,C1264 | | CCSQCH220J50 | | R1551 -R1558 ,R1561 -R1563 | | RA4C470J |
| | C1276 -C1278 ,C1285 ,C1298 ,C1299 | | CCSQCH220J50 | | R1901 -R1912 ,R1951 -R1958 | | RA4C470J |
| | C1078 ,C1114 ,C1124 | | CCSQCH330J50 | | R1964 -R1967 ,R2001 -R2020 | | RA4C470J |
| | C1274 | | CCSQCH470J50 | | R2101 -R2120 | | RA4C470J |
| | C1263 | | CCSQSL122J50 | | R1278 | | RD1/4PU103J |
| | C1003 ,C1009 ,C1015 ,C1021 ,C1033 | | CEV101M6R3 | | R1295 | | RD1/4PU220J |
| | C1037 ,C1056 ,C1057 ,C1133 ,C1145 | | CEV101M6R3 | | R1059 ,R1061 ,R1271 | | RN1/10SE1001D |
| | C1153 ,C1160 ,C1173 ,C1180 ,C1201 | | CEV101M6R3 | | RESISTORS | | |
| | C1243 ,C1245 ,C1254 ,C1271 ,C1289 | | CEV101M6R3 | | R1058 | | RN1/10SE1501D |
| | C1293 ,C1311 ,C1312 ,C1371 ,C1372 | | CEV101M6R3 | | R1060 | | RN1/10SE2001D |
| | C1421 ,C1422 ,C1471 ,C1472 | | CEV101M6R3 | | R1256 | | RN1/10SE2401D |
| | C1521 ,C1522 ,C1561 ,C1562 | | CEV101M6R3 | | R1257 | | RN1/10SE3301D |
| | C1631 ,C1632 ,C1721 -C1724 | | CEV101M6R3 | | R1258 ,R1259 ,R1263 ,R1292 | | RS1/16S0R0J |
| | C1771 -C1774 ,C1821 -C1824 | | CEV101M6R3 | | R1311 -R1316 | | RS1/16S0R0J |
| | C1922 ,C1923 ,C1972 ,C1973 ,C1975 | | CEV101M6R3 | | R1021 ,R1248 ,R1252 -R1255 ,R1301 | | RS1/16S100J |
| | C2021 ,C2022 ,C2121 ,C2122 | | CEV101M6R3 | | R1351 ,R1559 | | RS1/16S100J |
| | C1074 ,C1076 ,C1084 ,C1086 ,C1094 | | CEV1R0M50 | | R1245 | | RS1/16S101J |
| | C1096 ,C1275 ,C1606 | | CEV1R0M50 | | R1203 -R1210 ,R1655 | | RS1/16S103J |
| | C1001 ,C1007 ,C1013 ,C1019 ,C1031 | | CEV221M10 | | R1246 ,R1609 | | RS1/16S104J |
| | C1035 ,C1240 | | CEV221M10 | | R1601 -R1603 ,R1617 | | RS1/16S123J |
| | | | | | R1022 -R1027 ,R1241 -R1244 ,R1260 | | RS1/16S220J |
| | | | | | R1262 ,R1272 ,R1273 ,R1287 -R1289 | | RS1/16S220J |
| | | | | | R1921 | | RS1/16S221J |
| | | | | | R1616 | | RS1/16S273J |
| | | | | | R1922 | | RS1/16S331J |

PDP-501MX ,PDP-V501X

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-------------------------|--|--------------|----------|------|--|--------------|----------|
| | R1221 ,R1222 ,R1225 ,R1303 ,R1608 | RS1/16S470J | | | C7104 ,C7128 | CEHV101M16 | |
| | R1620 -R1626 ,R1629 -R1632 ,R1634 | RS1/16S470J | | | C7129 -C7131 | CEHV470M16 | |
| | R1653 ,R1654 ,R1913 ,R1914 | RS1/16S470J | | | C7103 ,C7121 -C7127 | CKSRYF104Z16 | |
| | R1959 -R1963 ,R1968 | RS1/16S470J | | | | | |
| | R1223 ,R1604 -R1607 ,R1610 -R1615 | RS1/16S472J | | | | | |
| | R1618 ,R1619 ,R1627 ,R1628 ,R1633 | RS1/16S472J | | | | | |
| | R1635 -R1652 | RS1/16S472J | | | | | |
| | Other Resistors | RS1/10S□□□J | | | | | |
| OTHERS | | | | | | | |
| | K1001 -K1022 ,K1025 -K1034 | AKX9002 | | | K7101 -K7103 | AKX9002 | |
| | K1101 ,K1102 ,K1111 ,K1112 | AKX9002 | | | CN7114-CN7116 30P CONNECTOR | KF050HA30L | |
| | K1121 ,K1122 ,K1131 ,K1132 | AKX9002 | | | CN7105-CN7107 40P CONNECTOR | KF050HA40L | |
| | K1151 ,K1152 ,K1171 -K1173 | AKX9002 | | | CN7109,CN7110,CN7112,CN7113 30P CONNECTOR | KF050HC30 | |
| | K1201 -K1209 ,K1241 -K1253 | AKX9002 | | | CN7104 40P CONNECTOR | KF050HC40 | |
| | K1261 -K1266 ,K1351 -K1357 ,K1401 | AKX9002 | | | CN7101-CN7103 50P CONNECTOR | KF050HC50 | |
| | K1451 ,K1501 ,K1551 -K1556 | AKX9002 | | | | | |
| | K1601 -K1606 ,K1951 -K1956 | AKX9002 | | | | | |
| | 9102 | ANK1517 | | | | | |
| | X1552 (90.99MHz) | ASS1131 | | | | | |
| | CN1011 PLUG 30P | KF050HA30L | | | | | |
| | CN1201,CN2201-CN2209 PLUG 50P | KF050HA50L | | | | | |
| | CN1001 PLUG 10P | KM200NA10L | | | | | |
| | CN1002 PLUG 4P | KM250MA4L | | | | | |
| | CN1602 PLUG 8P | KM250MA8L | | | | | |
| K CABLE A ASS'Y | | | | | | | |
| SEMICONDUCTORS | | | | | | | |
| | IC7001,IC7002 | TC74VHC541FT | | | IC7201,IC7202 | TC74VHC541FT | |
| | IC7003-IC7008 | TC74VHC574FT | | | IC7203-IC7208 | TC74VHC574FT | |
| COIL AND FILTERS | | | | | | | |
| | F7012 ,F7013 | ATF1124 | | | F7210 ,F7212 | ATF1124 | |
| | F7001 -F7009 | ATF1188 | | | F7201 -F7209 | ATF1188 | |
| | L7001 -L7003 (100μH) | ATH1065 | | | L7201 -L7203 (100μH) | ATH1065 | |
| CAPACITORS | | | | | | | |
| | C7010 ,C7011 | CEHV101M16 | | | C7210 ,C7212 | CEHV101M16 | |
| | C7013 -C7015 | CEHV470M16 | | | C7213 -C7215 | CEHV470M16 | |
| | C7001 -C7009 ,C7012 | CKSRYF104Z16 | | | C7201 -C7209 ,C7211 | CKSRYF104Z16 | |
| RESISTORS | | | | | | | |
| | R7001 -R7033 | RA4C470J | | | RESISTORS | | |
| OTHERS | | | | | | | |
| | K7001 -K7004 | AKX9002 | | | R7201 -R7233 | RA4C470J | |
| | CN7056-CN7058 30P CONNECTOR | KF050HA30L | | | | | |
| | CN7053-CN7055 40P CONNECTOR | KF050HA40L | | | | | |
| | CN7052 30P CONNECTOR | KF050HC30 | | | | | |
| | CN7051 40P CONNECTOR | KF050HC40 | | | | | |
| L CABLE B ASS'Y | | | | | | | |
| SEMICONDUCTORS | | | | | | | |
| | IC7121-IC7126 | TC74VHC574FT | | | SEMICONDUCTORS | | |
| COIL AND FILTERS | | | | | | | |
| | F7130 | ATF1124 | | | IC7321-IC7326 | TC74VHC574FT | |
| | F7141 -F7146 | ATF1184 | | | | | |
| | F7122 -F7127 | ATF1188 | | | | | |
| | L7101 -L7104 (100μH) | ATH1065 | | | | | |
| CAPACITORS | | | | | | | |
| | C7304 ,C7328 | CEHV101M16 | | | | | |
| | C7329 -C7331 | CEHV470M16 | | | | | |
| | C7303 ,C7321 -C7327 | CKSRYF104Z16 | | | | | |
| RESISTORS | | | | | | | |
| | R7321 -R7344 | RA4C470J | | | | | |
| | Other Resistors | RS1/10S□□□J | | | | | |
| OTHERS | | | | | | | |
| | K7301 -K7303 | AKX9002 | | | | | |
| | CN7314-CN7316 30P CONNECTOR | KF050HA30L | | | | | |
| | CN7305-CN7307 40P CONNECTOR | KF050HA40L | | | | | |
| | CN7309,CN7310,CN7312,CN7313 30P CONNECTOR | KF050HC30 | | | | | |

| Mark | No. | Description | Part No. |
|-------------------------|---------------|--------------|----------|
| CN7304 | 40P CONNECTOR | KF050HC40 | |
| CN7301-CN7303 | 50P CONNECTOR | KF050HC50 | |
| Q CABLE G ASS'Y | | | |
| SEMICONDUCTORS | | | |
| IC2762,IC2763 | | TC74VHC541FT | |
| IC2764-IC2767 | | TC74VHC574FT | |
| COIL AND FILTERS | | | |
| F2767 ,F2768 | | ATF1124 | |
| F2761 -F2766 | | ATF1188 | |
| L2761 ,L2762 (100μH) | | ATH1065 | |
| CAPACITORS | | | |
| C2782 ,C2784 | | CEHV101M16 | |
| C2785 ,C2786 | | CEHV470M16 | |
| C2781 ,C2783 | | CKSQYF104Z50 | |
| C2768 -C2773 | | CKSRYF104Z16 | |
| RESISTORS | | | |
| R2767 -R2788 | | RA4C470J | |
| OTHERS | | | |
| K2761 -K2763 | | AKX9002 | |
| CN2765,CN2766 | 30P CONNECTOR | KF050HA30L | |
| CN2761,CN2763 | 40P CONNECTOR | KF050HA40L | |
| CN2762,CN2764 | 30P CONNECTOR | KF050HC30 | |

| Mark | No. | Description | Part No. |
|-----------------------------------|-----|--------------|----------|
| IC4719 | | SAA4990H | |
| IC4702 | | SAA7165WP | |
| IC4718 | | TC74HC4066AF | |
| IC4714 | | TC74HCT04AF | |
| IC4716 | | TC74HCT08AF | |
| IC4703 | | TDA8755T | |
| IC4705,IC4706 | | TMS4C2973-26 | |
| IC4707,IC4708 | | UPC29L33T | |
| IC4709-IC4711 | | UPC78L05T | |
| Q4707 ,Q4709 | | 2SA1037K | |
| Q4704 ,Q4706 ,Q4712 | | 2SA1162 | |
| Q4701 ,Q4703 ,Q4705 ,Q4711 | | 2SC2712 | |
| D4706 ,D4712 | | 1SS352 | |
| D4705 ,D4711 | | 1SV232 | |
| COIL AND FILTERS | | | |
| F4703 ,F4704 | | ATF1124 | |
| F4701 | | ATF1186 | |
| L4706 | | ATG1060 | |
| F4715 | | ATG1063 | |
| L4704 ,L4705 ,L4710 ,L4713 ,L4714 | | LCTA100J3225 | |
| L4707 -L4709 | | LCTA1R5J3225 | |
| L4712 | | LCTA1R8J3225 | |
| L4701 ,L4702 | | LCTA221J3225 | |
| CAPACITORS | | | |
| C4771 ,C4773 ,C4774 ,C4776 ,C4778 | | CCSQCH121J50 | |
| C4780 | | CCSQCH121J50 | |
| C4721 ,C4772 ,C4775 ,C4779 | | CCSQCH150J50 | |
| C4731 ,C4732 ,C4805 | | CCSQCH220J50 | |
| C4704 ,C4706 ,C4718 ,C4719 | | CCSQCH221J50 | |
| C4761 ,C4762 | | CCSQCH221J50 | |
| C4746 | | CCSQCH270J50 | |
| C4747 ,C4760 | | CCSQCH331J50 | |
| C4730 | | CCSQCH390J50 | |
| C4748 ,C4749 | | CCSQCH680J50 | |
| C4811 | | CCSQCH8R0D50 | |
| C4702 ,C4703 ,C4715 ,C4717 ,C4765 | | CEV100M16 | |
| C4810 ,C4816 ,C4817 | | CEV100M16 | |
| C4785 ,C4787 ,C4789 ,C4791 ,C4812 | | CEV220M16 | |
| C4814 ,C4819 | | CEV220M16 | |
| C4711 | | CEV2R2M50 | |
| C4701 ,C4777 | | CEV470M6R3 | |
| C4705 ,C4707 ,C4744 | | CEV4R7M35 | |
| C4763 | | CKSQYB272K50 | |
| C4712 ,C4713 | | CKSQYB333K50 | |
| C4708 ,C4710 ,C4743 ,C4764 ,C4806 | | CKSQYF103Z50 | |
| C4709 ,C4714 ,C4716 ,C4720 ,C4722 | | CKSQYF104Z50 | |
| C4725 -C4729 ,C4750 ,C4752 -C4756 | | CKSQYF104Z50 | |
| C4759 ,C4766 -C4770 ,C4781 -C4784 | | CKSQYF104Z50 | |
| C4786 ,C4788 ,C4790 ,C4792 -C4800 | | CKSQYF104Z50 | |
| C4804 ,C4808 ,C4809 ,C4813 ,C4815 | | CKSQYF104Z50 | |
| C4818 | | CKSQYF104Z50 | |
| C4742 | | CKSQYF473Z50 | |
| RESISTORS | | | |
| Other Resistors | | RS1/10S□□□J | |
| OTHERS | | | |
| K4701 -K4703 | | AKX9002 | |
| X4701 (12MHz) | | ASS1133 | |

R CABLE H ASS'Y

| Mark | No. | Description | Part No. |
|-------------------------|---------------|--------------|----------|
| IC7601,IC7602 | | TC74VHC541FT | |
| IC7603-IC7606 | | TC74VHC574FT | |
| COIL AND FILTERS | | | |
| F7601 ,F7608 | | ATF1124 | |
| F7602 -F7607 | | ATF1188 | |
| L7601 ,L7602 (100μH) | | ATH1065 | |
| CAPACITORS | | | |
| C7601 ,C7611 | | CEHV101M16 | |
| C7609 ,C7610 | | CEHV470M16 | |
| C7602 ,C7612 | | CKSQYF104Z50 | |
| C7603 -C7608 | | CKSRYF104Z16 | |
| RESISTORS | | | |
| R7601 -R7622 | | RA4C470J | |
| OTHERS | | | |
| K7601 -K7603 | | AKX9002 | |
| CN7605,CN7606 | 30P CONNECTOR | KF050HA30L | |
| CN7602,CN7603 | 40P CONNECTOR | KF050HA40L | |
| CN7601,CN7604 | 30P CONNECTOR | KF050HC30 | |

SCAN ASS'Y

| Mark | No. | Description | Part No. |
|-------|-----|-------------|----------|
| C2553 | | CEAS220M50 | |

B PROGRESSIVE BLOCK

| Mark | No. | Description | Part No. |
|--------|-----|---------------|----------|
| IC4713 | | CD74HCT4046AM | |
| IC4722 | | M51952BML | |
| IC4720 | | PE6001A9 | |
| IC4701 | | PST9146N | |
| IC4704 | | SAA4952WP | |

PDP-501MX ,PDP-V501X

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|--|-----|--------------------------|-----------|--|--------------|-------------------|----------|
| AG | | IR RECEIVER ASS'Y | | | | CAPACITORS | |
| SEMICONDUCTORS | | | | C7818 -C7821 ,C7827 -C7830 (0.1μF/250V) | | ACG1059 | |
| IC2551 | | SBX8035-H | | C7836 -C7839 (0.1μF/250V) | | ACG1059 | |
| Q2551 | | 2SC2712 | | C7804 ,C7807 ,C7809 ,C7811 ,C7813 | CCSQCH220J50 | | |
| D2553 | | 1SS352 | | C7822 -C7826 ,C7831 -C7835 | CCSQCH220J50 | | |
| CAPACITORS | | | | C7802 | CCSQCH470J50 | | |
| C2554 | | CKSRYB472K50 | | | | | |
| C2551 | | CKSRYF104Z16 | | | | | |
| RESISTORS | | | | | | | |
| R2564 | | RS1/16S101J | | C7817 | CEHAQ100M2D | | |
| R2561 ,R2562 | | RS1/16S223J | | C7815 | CEHV101M16 | | |
| R2563 | | RS1/16S472J | | C7805 | CEHV470M16 | | |
| AH | | INDICATOR ASS'Y | | C7801 ,C7803 ,C7806 ,C7808 ,C7810 | CKSQYF104Z50 | | |
| SEMICONDUCTORS | | | | C7812 ,C7814 ,C7816 ,C7840 -C7846 | CKSQYF104Z50 | | |
| D2552 | | AEL1170 | | | | | |
| OTHERS | | | | | | | |
| J2553 | | D15A03-950-2651 | | | | | |
| S | | SCAN A ASS'Y | | | | | |
| SEMICONDUCTORS | | | | | | | |
| IC7702,IC7703,IC7705-IC7708 | | HCPL-M611 | | | | | |
| IC7701 | | ICL7667CBA | | | | | |
| IC7709-IC7711 | | SN755862PJA | | | | | |
| IC7704 | | UPC78L05T | | | | | |
| Q7701 ,Q7702 | | 2SK2518 | | | | | |
| COIL AND FILTERS | | | | | | | |
| L7701 | | VTL1007 | | | | | |
| CAPACITORS | | | | | | | |
| C7718 -C7721 ,C7727 -C7730 (0.1μF/250V) | | ACG1059 | | | | | |
| C7736 -C7739 (0.1μF/250V) | | ACG1059 | | | | | |
| C7704 ,C7707 ,C7709 ,C7711 ,C7713 | | CCSQCH220J50 | | | | | |
| C7722 -C7726 ,C7731 -C7735 | | CCSQCH220J50 | | | | | |
| C7702 | | CCSQCH470J50 | | | | | |
| C7717 | | CEHAQ100M2D | | | | | |
| C7715 | | CEHV101M16 | | | | | |
| C7705 | | CEHV470M16 | | | | | |
| C7701 ,C7703 ,C7706 ,C7708 ,C7710 | | CKSQYF104Z50 | | | | | |
| C7712 ,C7714 ,C7716 ,C7740 -C7746 | | CKSQYF104Z50 | | | | | |
| RESISTORS | | | | | | | |
| Other Resistors | | RS1/10S□□□J | | | | | |
| OTHERS | | | | | | | |
| CN7701 | | 30P CONNECTOR | KF050HC30 | | | | |
| T | | SCAN B ASS'Y | | | | | |
| SEMICONDUCTORS | | | | | | | |
| IC7802,IC7803,IC7805-IC7808 | | HCPL-M611 | | | | | |
| IC7801 | | ICL7667CBA | | | | | |
| IC7809-IC7811 | | SN755862PJA | | | | | |
| IC7804 | | UPC78L05T | | | | | |
| Q7801 ,Q7802 | | 2SK2518 | | | | | |
| COIL AND FILTERS | | | | | | | |
| L7801 | | VTL1007 | | | | | |
| U | | SCAN C ASS'Y | | | | | |
| SEMICONDUCTORS | | | | | | | |
| IC7902,IC7903,IC7905-IC7908 | | HCPL-M611 | | | | | |
| IC7901 | | ICL7667CBA | | | | | |
| IC7909-IC7911 | | SN755862PJA | | | | | |
| IC7904 | | UPC78L05T | | | | | |
| Q7901 ,Q7902 | | 2SK2518 | | | | | |
| COIL AND FILTERS | | | | | | | |
| L7901 | | VTL1007 | | | | | |
| CAPACITORS | | | | | | | |
| C7918 -C7921 ,C7927 -C7930 (0.1μF/250V) | | ACG1059 | | | | | |
| C7936 -C7939 (0.1μF/250V) | | ACG1059 | | | | | |
| C7904 ,C7907 ,C7909 ,C7911 ,C7913 | | CCSQCH220J50 | | | | | |
| C7922 -C7926 ,C7931 -C7935 | | CCSQCH220J50 | | | | | |
| C7902 | | CCSQCH470J50 | | | | | |
| C7917 | | CEHAQ100M2D | | | | | |
| C7915 | | CEHV101M16 | | | | | |
| C7905 | | CEHV470M16 | | | | | |
| C7901 ,C7903 ,C7906 ,C7908 ,C7910 | | CKSQYF104Z50 | | | | | |
| C7912 ,C7914 ,C7916 ,C7940 -C7946 | | CKSQYF104Z50 | | | | | |
| RESISTORS | | | | | | | |
| Other Resistors | | RS1/10S□□□J | | | | | |
| OTHERS | | | | | | | |
| CN7901 | | 30P CONNECTOR | KF050HC30 | | | | |
| V | | SCAN D ASS'Y | | | | | |
| SEMICONDUCTORS | | | | | | | |
| IC8702,IC8703,IC8705-IC8708 | | HCPL-M611 | | | | | |
| IC8701 | | ICL7667CBA | | | | | |
| IC8709-IC8711 | | SN755862PJA | | | | | |
| IC8704 | | UPC78L05T | | | | | |
| Q8701 ,Q8702 | | 2SK2518 | | | | | |
| COIL AND FILTERS | | | | | | | |
| L8701 | | VTL1007 | | | | | |
| CAPACITORS | | | | | | | |
| C8718 -C8721 ,C8727 -C8730 (0.1μF/250V) | | ACG1059 | | | | | |
| C8736 -C8739 (0.1μF/250V) | | ACG1059 | | | | | |
| C8704 ,C8707 ,C8709 ,C8711 ,C8713 | | CCSQCH220J50 | | | | | |

| Mark | No. | Description | Part No. |
|------------------|-----------------------------------|----------------------|--------------|
| | C8722 | -C8726 ,C8731 -C8735 | CCSQCH220J50 |
| | C8702 | | CCSQCH470J50 |
| | C8717 | | CEHAQ100M2D |
| | C8715 | | CEHV101M16 |
| | C8705 | | CEHV470M16 |
| | C8701 ,C8703 ,C8706 ,C8708 ,C8710 | | CKSQYF104Z50 |
| | C8712 ,C8714 ,C8716 ,C8740 -C8746 | | CKSQYF104Z50 |
| RESISTORS | | | |
| | Other Resistors | | RS1/10S□□□J |

W PUMP UP A ASSY

SEMICONDUCTORS

| | |
|-------------------|--------------|
| IC8151 | ICL7667CBA |
| △ IC8152 | ICP-S1.0 |
| Q8151 | 2SJ327-Z |
| Q8152 | 2SK2796S |
| D8151 | D1FL20U |
| CAPACITORS | |
| C8154 ,C8155 | CCSQCH221J50 |
| C8152 | CEHAQ101M63 |
| C8151 | CFTXA474J50 |
| C8153 | CKSQYF103Z50 |
| C8156 | CKSQYF104Z50 |
| RESISTORS | |
| R8151 -R8154 | RS2MMF180J |
| Other Resistors | RS1/10S□□□J |

| | |
|--------------|--------------------------|
| OTHERS | |
| CN8152 | AKM1141 |
| K8151 -K8155 | AKX9002 |
| CN8151 | 30P CONNECTOR KF050HA30L |

X PUMP UP B ASSY

SEMICONDUCTORS

| | |
|-------------------|--------------|
| IC8201 | ICL7667CBA |
| △ IC8202 | ICP-S1.0 |
| Q8201 | 2SJ327-Z |
| Q8202 | 2SK2796S |
| D8201 | D1FL20U |
| CAPACITORS | |
| C8204 ,C8205 | CCSQCH221J50 |
| C8202 | CEHAQ101M63 |
| C8201 | CFTXA474J50 |
| C8203 | CKSQYF103Z50 |
| C8206 | CKSQYF104Z50 |
| RESISTORS | |
| R8201 -R8204 | RS2MMF180J |
| Other Resistors | RS1/10S□□□J |

| | |
|--------------|---------|
| OTHERS | |
| CN8202 | AKM1141 |
| K8201 -K8205 | AKX9002 |

| | |
|--------|--------------------------|
| CN8201 | 30P CONNECTOR KF050HA30L |
|--------|--------------------------|

Y PUMP UP C ASSY

SEMICONDUCTORS

| | |
|--------|------------|
| IC8251 | ICL7667CBA |
|--------|------------|

| Mark | No. | Description | Part No. |
|-------------------|-----------------|---------------|--------------|
| △ | IC8252 | | ICP-S1.0 |
| | Q8251 | | 2SJ327-Z |
| | Q8252 | | 2SK2796S |
| | D8251 | | D1FL20U |
| CAPACITORS | | | |
| | C8254 ,C8255 | | CCSQCH221J50 |
| | C8252 | | CEHAQ101M63 |
| | C8251 | | CFTXA474J50 |
| | C8253 | | CKSQYF103Z50 |
| | C8256 | | CKSQYF104Z50 |
| RESISTORS | | | |
| | R8251 -R8254 | | RS2MMF180J |
| | Other Resistors | | RS1/10S□□□J |
| OTHERS | | | |
| | CN8252 | | AKM1141 |
| | K8252 -K8255 | | AKX9002 |
| | CN8251 | 30P CONNECTOR | KF050HA30L |

Z PUMP UP D ASSY

| Mark | No. | Description | Part No. |
|-------------------|-----------------|---------------|--------------|
| △ | IC8301 | | ICL7667CBA |
| | IC8302 | | ICP-S1.0 |
| | Q8301 | | 2SJ327-Z |
| | Q8302 | | 2SK2796S |
| | D8301 | | D1FL20U |
| CAPACITORS | | | |
| | C8304 ,C8305 | | CCSQCH221J50 |
| | C8302 | | CEHAQ101M63 |
| | C8301 | | CFTXA474J50 |
| | C8303 | | CKSQYF103Z50 |
| | C8306 | | CKSQYF104Z50 |
| RESISTORS | | | |
| | R8301 -R8304 | | RS2MMF180J |
| | Other Resistors | | RS1/10S□□□J |
| OTHERS | | | |
| | CN8302 | | AKM1141 |
| | K8301 -K8305 | | AKX9002 |
| | CN8301 | 30P CONNECTOR | KF050HA30L |

AA PUMP UP E ASSY

| Mark | No. | Description | Part No. |
|-------------------|-----------------|---------------|--------------|
| △ | IC8351 | | ICL7667CBA |
| | IC8352 | | ICP-S1.0 |
| | Q8351 | | 2SJ327-Z |
| | Q8352 | | 2SK2796S |
| | D8351 | | D1FL20U |
| CAPACITORS | | | |
| | C8354 ,C8355 | | CCSQCH221J50 |
| | C8352 | | CEHAQ101M63 |
| | C8351 | | CFTXA474J50 |
| | C8353 | | CKSQYF103Z50 |
| | C8356 | | CKSQYF104Z50 |
| RESISTORS | | | |
| | R8351 -R8354 | | RS2MMF180J |
| | Other Resistors | | RS1/10S□□□J |
| OTHERS | | | |
| | CN8352 | | AKM1141 |
| | K8352 -K8355 | | AKX9002 |
| | CN8351 | 30P CONNECTOR | KF050HA30L |

PDP-501MX ,PDP-V501X

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-----------------------|-----------------|-----------------------|------------|--------------------------|---------------|-----------------|-------------|
| AB | | PUMP UP F ASSY | | | | Other Resistors | RS1/10S□□□J |
| SEMICONDUCTORS | | | | OTHERS | | | |
| △ | IC8401 | ICL7667CBA | | CN8502 | | AKM1141 | |
| | IC8402 | ICP-S1.0 | | K8501 -K8505 | | AKX9002 | |
| | Q8401 | 2SJ327-Z | | CN8501 | 30P CONNECTOR | KF050HA30L | |
| | Q8402 | 2SK2796S | | | | | |
| | D8401 | D1FL20U | | | | | |
| CAPACITORS | | | | AE PUMP UP K ASSY | | | |
| | C8404 ,C8405 | CCSQCH221J50 | | SEMICONDUCTORS | | ICL7667CBA | |
| | C8402 | CEHAQ101M63 | | △ | IC8551 | ICP-S1.0 | |
| | C8401 | CFTXA474J50 | | | IC8552 | 2SJ327-Z | |
| | C8403 | CKSQYF103Z50 | | | Q8551 | 2SK2796S | |
| | C8406 | CKSQYF104Z50 | | | Q8552 | D1FL20U | |
| RESISTORS | | | | CAPACITORS | | | |
| | R8401 -R8404 | RS2MMF180J | | C8554 ,C8555 | CCSQCH221J50 | | |
| | Other Resistors | RS1/10S□□□J | | C8552 | CEHAQ101M63 | | |
| OTHERS | | | | | C8551 | CFTXA474J50 | |
| | CN8402 | AKM1141 | | C8553 | CKSQYF103Z50 | | |
| | K8401 -K8405 | AKX9002 | | C8556 | CKSQYF104Z50 | | |
| | CN8401 | 30P CONNECTOR | KF050HA30L | | | | |
| AC | | PUMP UP G ASSY | | RESISTORS | | | |
| SEMICONDUCTORS | | | | R8551 -R8554 | RS2MMF180J | | |
| △ | IC8451 | ICL7667CBA | | Other Resistors | RS1/10S□□□J | | |
| | IC8452 | ICP-S1.0 | | | | | |
| | Q8451 | 2SJ327-Z | | | | | |
| | Q8452 | 2SK2796S | | | | | |
| | D8451 | D1FL20U | | | | | |
| CAPACITORS | | | | OTHERS | | | |
| | C8454 ,C8455 | CCSQCH221J50 | | CN8552 | AKM1141 | | |
| | C8452 | CEHAQ101M63 | | K8551 -K8555 | AKX9002 | | |
| | C8451 | CFTXA474J50 | | CN8551 | 30P CONNECTOR | KF050HA30L | |
| | C8453 | CKSQYF103Z50 | | | | | |
| | C8456 | CKSQYF104Z50 | | | | | |
| RESISTORS | | | | AF PUMP UP L ASSY | | | |
| | R8451 -R8454 | RS2MMF180J | | SEMICONDUCTORS | | ICL7667CBA | |
| | Other Resistors | RS1/10S□□□J | | △ | IC8601 | ICP-S1.0 | |
| OTHERS | | | | | IC8602 | 2SJ327-Z | |
| | CN8452 | AKM1141 | | Q8601 | 2SK2796S | | |
| | K8451 -K8455 | AKX9002 | | Q8602 | D1FL20U | | |
| | CN8451 | 30P CONNECTOR | KF050HA30L | | D8601 | | |
| AD | | PUMP UP H ASSY | | CAPACITORS | | | |
| SEMICONDUCTORS | | | | C8604 ,C8605 | CCSQCH221J50 | | |
| △ | IC8501 | ICL7667CBA | | C8602 | CEHAQ101M63 | | |
| | IC8502 | ICP-S1.0 | | C8601 | CFTXA474J50 | | |
| | Q8501 | 2SJ327-Z | | C8603 | CKSQYF103Z50 | | |
| | Q8502 | 2SK2796S | | C8606 | CKSQYF104Z50 | | |
| | D8501 | D1FL20U | | | | | |
| CAPACITORS | | | | RESISTORS | | | |
| | C8504 ,C8505 | CCSQCH221J50 | | R8601 -R8604 | RS2MMF180J | | |
| | C8502 | CEHAQ101M63 | | Other Resistors | RS1/10S□□□J | | |
| | C8501 | CFTXA474J50 | | | | | |
| | C8503 | CKSQYF103Z50 | | | | | |
| | C8506 | CKSQYF104Z50 | | | | | |
| RESISTORS | | | | OTHERS | | | |
| | R8501 -R8504 | RS2MMF180J | | CN8602 | AKM1141 | | |
| | | | | K8601 -K8605 | AKX9002 | | |
| | | | | CN8601 | 30P CONNECTOR | KF050HA30L | |
| A | | VIDEO ASS'Y | | | | | |
| SEMICONDUCTORS | | | | SEMICONDUCTORS | | | |
| | | IC9003,IC9504 | | IC9003,IC9504 | BA7655AF | | |
| | | IC9205 | | IC9205 | CXA1875AM | | |
| | | IC4502,IC4503 | | IC4502,IC4503 | MC14577CF | | |
| | | IC4501 | | IC4501 | NJM2234M | | |
| | | IC9961 | | IC9961 | PA0030 | | |
| | | | | IC9001 | TA8759BN | | |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-------------------------|-----------------------------------|--------------|--------------|------|-----------------------------------|-------------|--------------|
| | IC4101 | | TC4052BF | | C9941 | | CCSQCH220J50 |
| | IC4102,IC9502 | | TC4053BF | | C4110 ,C9030 ,C9032 ,C9055 ,C9555 | | CCSQCH221J50 |
| | IC9505 | | TC74ACT541FS | | C9561 | | CCSQCH221J50 |
| | IC9503,IC9801 | | TC74HC4053AF | | C9576 ,C9855 ,C9871 ,C9962 | | CCSQCH330J50 |
| | IC9002,IC9507 | | TC74HC4538AF | | C9003 ,C9577 | | CCSQCH390J50 |
| | IC9501 | | TDA4566 | | C9553 | | CCSQCH470J50 |
| | IC9506 | | UPC1862GS | | | | |
| | Q4104 ,Q4123 ,Q4137 ,Q4520 ,Q9008 | 2SA1037K | | | C9049 ,C9050 | | CCSQCH471J50 |
| | Q9522 ,Q9523 ,Q9542 ,Q9544 ,Q9547 | 2SA1037K | | | C9856 ,C9872 | | CCSQCH560J50 |
| | Q9551 ,Q9552 ,Q9801 -Q9803 ,Q9844 | 2SA1037K | | | C4123 ,C9029 ,C9031 | | CCSQCH680J50 |
| | Q9858 ,Q9874 ,Q9895 ,Q9912 | 2SA1037K | | | C4109 | | CCSQCH821J50 |
| | Q9921 -Q9923 ,Q9926 ,Q9941 ,Q9944 | 2SA1037K | | | C4112 | | CCSQSL122J50 |
| | Q4106 ,Q4108 -Q4111 ,Q4113 | 2SC2412K | | | C9560 | | CCSQSL152J50 |
| | Q4115 ,Q4116 ,Q4121 ,Q4124 ,Q4127 | 2SC2412K | | | C9578 | | CCSQSL1R0C50 |
| | Q4129 -Q4132 ,Q4134 ,Q4511 -Q4513 | 2SC2412K | | | C9565 | | CCSQSL222J50 |
| | Q4521 ,Q9003 -Q9006 ,Q9009 -Q9014 | 2SC2412K | | | C9966 | | CEAS100M50 |
| | Q9101 ,Q9102 ,Q9501 ,Q9503 -Q9507 | 2SC2412K | | | C4107 ,C4115 ,C4116 ,C4522 | | CEV100M16 |
| | Q9509 -Q9521 ,Q9525 -Q9527 | 2SC2412K | | | C9039 | | CEV100M50 |
| | Q9530 -Q9536 ,Q9538 -Q9541 ,Q9543 | 2SC2412K | | | C9518 ,C9971 | | CEV101M16 |
| | Q9545 ,Q9546 ,Q9548 -Q9550 ,Q9821 | 2SC2412K | | | C4514 ,C4517 ,C9225 ,C9583 | | CEV101M6R3 |
| | Q9823 -Q9825 ,Q9841 -Q9843 | 2SC2412K | | | C9057 ,C9564 ,C9566 ,C9569 | | CEV1R0M50 |
| | Q9855 -Q9857 ,Q9871 -Q9873 ,Q9911 | 2SC2412K | | | C4501 ,C4502 ,C4511 ,C4526 ,C9065 | | CEV220M16 |
| | Q9913 ,Q9942 ,Q9943 ,Q9945 ,Q9946 | 2SC2412K | | | C9502 ,C9505 -C9507 ,C9511 ,C9512 | | CEV220M16 |
| | Q9971 | 2SC2412K | | | C9544 ,C9545 ,C9570 ,C9896 | | CEV220M16 |
| | Q4114 | 2SK208 | | | C4121 ,C9102 ,C9103 ,C9230 | | CEV220M6R3 |
| | Q4509 ,Q9508 ,Q9524 ,Q9528 ,Q9529 | DTC124EK | | | C9534 -C9536 ,C9547 ,C9550 ,C9552 | | CEV220M6R3 |
| | Q9972 ,Q9973 | DTC124EK | | | C9592 -C9594 ,C9822 -C9824 ,C9913 | | CEV220M6R3 |
| | D4105 -D4107 ,D4502 -D4508 | 1SS226 | | | C9925 | | CEV220M6R3 |
| | D9208 ,D9209 | 1SS226 | | | C4108 ,C4117 | | CEV330M10 |
| | D4102 ,D4523 ,D9001 ,D9002 ,D9004 | 1SS352 | | | C9969 | | CEV330M25 |
| | D9501 -D9504 ,D9801 ,D9841 | 1SS352 | | | C4118 ,C4127 ,C4131 ,C4506 ,C4525 | | CEV470M16 |
| | D9003 | RD5.1MB | | | C9023 ,C9025 ,C9047 ,C9503 ,C9509 | | CEV470M16 |
| COIL AND FILTERS | | | | | C9514 ,C9516 ,C9522 ,C9537 ,C9539 | | CEV470M16 |
| | F4108 ,F9202 ,F9501 -F9508 | ATF1124 | | | C9541 ,C9590 ,C9801 ,C9804 ,C9806 | | CEV470M16 |
| | F4101 -F4107 | ATF1128 | | | C9858 ,C9891 ,C9911 ,C9943 | | CEV470M16 |
| | DL9941,DL9942 | ATN1029 | | | C4518 ,C4527 ,C9069 ,C9520 ,C9524 | | CEV470M6R3 |
| | L4109 ,L9962 | LCTA100J3225 | | | C9526 ,C9528 ,C9530 ,C9532 ,C9548 | | CEV470M6R3 |
| | L4107 | LCTA101J3225 | | | C9551 ,C9567 ,C9573 ,C9574 ,C9588 | | CEV470M6R3 |
| | L4106 | LCTA120J3225 | | | C4523 ,C9559 ,C9580 | | CEV4R7M35 |
| | L4108 | LCTA150J3225 | | | C9067 ,C9068 ,C9843 ,C9857 ,C9873 | | CEVNP100M16 |
| | L9006 ,L9007 | LCTA270J3225 | | | C9916 | | CEVNP100M16 |
| | L4110 | LCTA3R9J3225 | | | C9058 | | CEVNP1R0M50 |
| | L9963 ,L9964 | LCTA4R7J3225 | | | C9007 | | CEVNP2R2M50 |
| | L9961 | LCTA5R6J3225 | | | C9026 ,C9582 | | CEVR47M50 |
| | L4105 ,L9855 ,L9871 | LCTA6R8J3225 | | | C9043 | | CFHS223J16 |
| CAPACITORS | | | | | C9045 | | CFHSP104J16 |
| | C9056 ,C9579 (0.22μF/16) | ACE9008 | | | C9011 ,C9012 ,C9059 | | CFHSP563J16 |
| | C9554 ,C9963 -C9965 ,C9967 | CCSQCH100D50 | | | C4532 ,C9006 ,C9044 ,C9581 ,C9587 | | CFHSQ103J16 |
| | C9061 | CCSQCH101J50 | | | C9046 | | CFHSQ472J16 |
| | C9563 ,C9586 | CCSQCH102J50 | | | C9037 | | CKSQYB102K50 |
| | C9004 | CCSQCH120J50 | | | C4106 ,C4119 ,C4128 ,C4132 | | CKSQYB103K50 |
| | C4111 ,C4122 | CCSQCH121J50 | | | C4134 ,C4135 ,C4139 ,C4505 ,C4513 | | CKSQYB103K50 |
| | C9961 | CCSQCH150J50 | | | C4515 ,C4516 ,C4524 ,C4530 ,C4531 | | CKSQYB103K50 |
| | C4129 | CCSQCH151J50 | | | C4534 ,C9010 ,C9015 ,C9033 ,C9038 | | CKSQYB103K50 |
| | C9005 | CCSQCH181J50 | | | C9051 ,C9054 ,C9062 -C9064 | | CKSQYB103K50 |

PDP-501MX ,PDP-V501X

| Mark | No. | Description | Part No. |
|-------------------------|------------|-----------------------|-----------------|
| C9070 | -C9072 | ,C9101 ,C9519 ,C9521 | CKSQYB103K50 |
| C9523 | ,C9525 | ,C9556 ,C9557 ,C9562 | CKSQYB103K50 |
| C9571 | ,C9585 | ,C9802 ,C9805 ,C9807 | CKSQYB103K50 |
| C9821 | ,C9841 | ,C9842 ,C9844 ,C9859 | CKSQYB103K50 |
| C9892 | ,C9912 | ,C9923 ,C9942 ,C9968 | CKSQYB103K50 |
| C9972 | -C9976 | | CKSQYB103K50 |
| C4113 | | | CKSQYB392K50 |
| C9213 | | | CKSQYF102Z50 |
| C9226 | ,C9231 | ,C9504 ,C9508 ,C9510 | CKSQYF103Z50 |
| C9513 | ,C9515 | ,C9517 ,C9527 ,C9529 | CKSQYF103Z50 |
| C9531 | ,C9533 | ,C9538 ,C9540 | CKSQYF103Z50 |
| C9542 | ,C9543 | ,C9549 ,C9558 ,C9568 | CKSQYF103Z50 |
| C9572 | ,C9575 | ,C9584 ,C9589 ,C9591 | CKSQYF103Z50 |
| C9770 | ,C9771 | | CKSQYF103Z50 |
| C4504 | ,C9024 | ,C9034 -C9036 | CKSQYF104Z50 |
| C9040 | -C9042 | ,C9048 ,C9066 ,C9501 | CKSQYF104Z50 |
| C9803 | | | CKSQYF104Z50 |
| C4519 | | | CKSQYF473Z50 |
| RESISTORS | | | |
| R9988 | ,R9989 | | RD1/4PU471J |
| R4232 | ,R4233 | | RD1/4PU681J |
| R9113 | | | RD1/4PU821J |
| R9713 | | | RN1/10SE8202D |
| VR9005 | | | VRTS6VS102 |
| VR9002-VR9004 | | | VRTS6VS103 |
| Other Resistors | | | RS1/10S□□□J |
| OTHERS | | | |
| CN4502 | | PIN JACK(3P-AU) | AKB1270 |
| JA4503 | | JACK | AKB7096 |
| CN4505 | | SIN SOCKET | AKP1175 |
| CN4504 | | CONNECTOR | AKX1051 |
| K4501 | ,K4502 | ,K9502 ,K9921 ,K9924 | AKX9002 |
| K9961 | ,K9971 | -K9973 | AKX9002 |
| X9003 | (503kHz) | | ASS1019 |
| X9502 | | CRYSTAL (14.31818MHz) | ASS1056 |
| X9002 | | CRYSTAL (3.579545MHz) | ASS1091 |
| X9501 | (503kHz) | | ASS1112 |
| CN9501 | | 50P CONNECTOR | KF050HA50L |
| CN4107 | | PLUG 12P | KM250MA13 |
| CN4102 | | PLUG 6P | KM250MA6 |
| CN9502 | | PLUG 8P | KM250MA8B |
| CN4101 | | PLUG 9P | KM250MA9 |
| 5001 | | SCREW TERMINAL | VNE1949 |
| AO CONTROL ASS'Y | | | |
| SEMICONDUCTORS | | | |
| IC3401 | | | MC145407F |
| IC3402 | | | TC74HC00AF |
| Q3405 | ,Q3409 | ,Q3411 | 2SA1162 |
| Q3404 | ,Q3406 | -Q3408 ,Q3410 | 2SC2712 |
| D3401 | ,D3402 | ,D3416 -D3418 | 1SS352 |
| D3404 | -D3411 | | RD15MB |

| Mark | No. | Description | Part No. |
|------------------------------------|-------------------|-------------|----------------|
| SWITCHES AND RELAYS | | | |
| S3401 | | | ASH1010 |
| CAPACITORS | | | |
| C3404 ,C3406 ,C3409 ,C3410 | | | CEV100M35 |
| C3403 ,C3408 ,C3412 | | | CEV470M16 |
| C3405 ,C3407 ,C3411 | | | CKSQYB103K50 |
| C3402 | | | CKSQYB472K50 |
| RESISTORS | | | |
| Other Resistors | | | RS1/10S□□□J |
| OTHERS | | | |
| CN3401,CN3402JACK | | | AKN-207 |
| CN3403 | SOCKET (9P D-SUB) | AKP1171 | |
| CN3406,CN3407 | 6P MINIDIN SOCKET | AKP1183 | |
| CN3404 | PLUG 3P | KM250MA3 | |
| 3401 | SCREW TERMINAL | VNE1949 | |
| C RGB ASS'Y | | | |
| SEMICONDUCTORS | | | |
| IC5102 | | | 24LCS21A |
| IC6001 | | | AN5390FBS |
| IC6002 | | | AN5395FBP |
| IC5101,IC5802,IC6003 | | | BA7657F |
| IC5109 | | | LT1260CS |
| IC5307 | | | M52036SP |
| IC5801 | | | M52337SP |
| IC5805 | | | M62358FP |
| IC6145 | | | NJM072BM-E |
| IC5112 | | | NJM2234M |
| IC5103-IC5106 | | | NJM360M |
| IC5301 | | | PDY052A |
| IC5310 | | | PE1007A |
| IC6005 | | | PQ20VZ1U |
| IC5107,IC5309,IC6006 | | | TA78M05F |
| IC5108 | | | TA79L05F |
| IC6004 | | | TC74HC4066AF |
| IC5312 | | | TC74HC4538AFS |
| IC5311 | | | TC74VHC123AFT |
| IC5111,IC5302,IC5303,IC5306,IC5308 | | | TC74VHCT541AFT |
| IC5803 | | | TC74VHCT541AFT |
| IC5304 | | | TC74VHCU04FS |
| IC5804 | | | TC7S32F |
| Q5118 ,Q5120 ,Q5127 ,Q5132 ,Q5134 | 2SA1037K | | |
| Q5136 ,Q5155 -Q5158 ,Q5282 ,Q5302 | 2SA1037K | | |
| Q5808 -Q5810 ,Q5825 -Q5827 | 2SA1037K | | |
| Q5954 -Q5956 ,Q6008 ,Q6010 -Q6019 | 2SA1037K | | |
| Q6146 ,Q6148 | 2SA1037K | | |
| Q5103 ,Q5106 ,Q5117 ,Q5119 | 2SC2412K | | |
| Q5125 ,Q5126 ,Q5128 ,Q5131 ,Q5133 | 2SC2412K | | |
| Q5135 ,Q5303 ,Q5304 ,Q5801 | 2SC2412K | | |
| Q5804 -Q5807 ,Q5811 ,Q5814 -Q5818 | 2SC2412K | | |
| Q5821 -Q5824 ,Q6001 -Q6007 ,Q6009 | 2SC2412K | | |
| Q6147 ,Q6149 | 2SC2412K | | |
| Q5123 ,Q5301 ,Q5305 | DTC124EK | | |
| Q5283 | FS30AS-06 | | |
| D5108 ,D5802 -D5805 ,D5807 ,D5808 | 1SS184 | | |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|----------------------------|--|---------------|----------|------|-----------------------------------|--------------|----------|
| | D5103 ,D5105 ,D5106 ,D5109 -D5111 | 1SS226 | | | C5135 ,C5137 ,C5139 ,C5152 ,C5153 | CEVNP470M10 | |
| | D5113 -D5120 ,D5125 -D5130 | 1SS226 | | | C5114 -C5116 ,C5899 ,C5901 ,C5903 | CEVNP470M6R3 | |
| | D6003 ,D6004 | 1SS226 | | | C6100 ,C6102 ,C6104 | CEVNP470M6R3 | |
| | D5102 ,D5104 ,D5121 ,D5122 | 1SS352 | | | C5117 ,C5144 | CEVNP4R7M16 | |
| | D5303 -D5306 ,D5806 ,D6145 | 1SS352 | | | C6003 -C6005 | CEVR10M50 | |
| | D6148 ,D6149 | HSS104-02 | | | C5102 -C5107 ,C5134 ,C5136 ,C5138 | CFHSQ103J16 | |
| | D6005 ,D6006 | RD10MB | | | C5367 ,C6017 ,C6018 ,C6042 ,C6052 | CFHSQ103J16 | |
| | D5112 ,D6001 | RD6.8MB | | | C6061 ,C6062 ,C6064 ,C6065 ,C6069 | CFHSQ103J16 | |
| COIL AND FILTERS | | | | | | | |
| | F5301 -F5304 | ATF1116 | | | C5337 | CFHSQ472J16 | |
| | F5803 -F5805 ,F6001 -F6007 | ATF1124 | | | C6145 | CFTYA474J50 | |
| | L5101 -L5104 | LCTA470J3225 | | | C5109 ,C5111 ,C5124 ,C5125 ,C5127 | CKSQYB103K50 | |
| | L6002 | LCTA820J3225 | | | C5130 -C5132 ,C5141 ,C5143 ,C5151 | CKSQYB103K50 | |
| | L6001 | LCTAR22J3225 | | | C5155 ,C5156 ,C5169 ,C5192 | CKSQYB103K50 | |
| SWITCHES AND RELAYS | | | | | | | |
| | S5101 | ASH1029 | | | C5194 ,C5195 ,C5200 ,C5201 ,C5301 | CKSQYB103K50 | |
| CAPACITORS | | | | | | | |
| | C6044 ,C6079 ,C6080 ,C6084 (0.22μF/16V) | ACE9008 | | | C5328 ,C5339 ,C5341 -C5343 | CKSQYB103K50 | |
| | C6108 -C6110 | CCDSL121J50 | | | C5347 ,C5348 ,C5357 ,C5358 ,C5805 | CKSQYB103K50 | |
| | C5331 ,C5338 | CCSQCH151J50 | | | C5807 ,C5810 ,C5812 ,C5829 -C5831 | CKSQYB103K50 | |
| | C5326 ,C5813 ,C5820 ,C5826 ,C6081 | CCSQCH221J50 | | | C5837 ,C5844 ,C5846 ,C5848 ,C5861 | CKSQYB103K50 | |
| | C5334 ,C5353 -C5356 ,C5359 -C5361 | CCSQCH471J50 | | | C5863 ,C5867 ,C5869 ,C5874 ,C5876 | CKSQYB103K50 | |
| | C5365 ,C5369 | CCSQCH471J50 | | | C5879 ,C5881 ,C5886 ,C5888 ,C5891 | CKSQYB103K50 | |
| | C5303 ,C5304 | CCSQCH7R0D50 | | | C5893 ,C5895 ,C5896 ,C5898 ,C5900 | CKSQYB103K50 | |
| | C6056 | CCSQCH820J50 | | | C5902 ,C5904 ,C5906 ,C6011 ,C6013 | CKSQYB103K50 | |
| | C6023 ,C6025 ,C6026 | CEAS3R3M50 | | | C6015 ,C6019 ,C6035 ,C6036 ,C6039 | CKSQYB103K50 | |
| | C5118 ,C5121 ,C5145 ,C5148 ,C5324 | CEV100M16 | | | C6041 ,C6043 ,C6046 ,C6049 -C6051 | CKSQYB103K50 | |
| | C6006 -C6008 ,C6021 ,C6073 ,C6146 | CEV100M16 | | | C6053 -C6055 ,C6057 -C6059 ,C6063 | CKSQYB103K50 | |
| | C6149 | CEV100M16 | | | C6066 -C6068 ,C6071 ,C6072 ,C6074 | CKSQYB103K50 | |
| | C5170 ,C5176 ,C5178 ,C5193 | CEV101M6R3 | | | C6076 ,C6077 ,C6082 ,C6085 ,C6087 | CKSQYB103K50 | |
| | C5808 ,C5809 ,C5836 ,C5860 | CEV101M6R3 | | | C6090 ,C6092 ,C6094 ,C6097 ,C6099 | CKSQYB103K50 | |
| | C5877 ,C5878 ,C5889 ,C5890 ,C5897 | CEV101M6R3 | | | C6101 ,C6103 ,C6105 ,C6106 | CKSQYB103K50 | |
| | C6093 | CEV101M6R3 | | | C5815 ,C5817 ,C5818 ,C5822 ,C5824 | CKSQYB223K50 | |
| | C5325 ,C5814 ,C5819 ,C5825 | CEV1R0M50 | | | C5827 ,C5828 ,C5832 ,C5833 | CKSQYB223K50 | |
| | C6001 ,C6002 ,C6022 ,C6031 | CEV1R0M50 | | | C5839 ,C5840 ,C5849 -C5859 | CKSQYB223K50 | |
| | C5197 ,C6020 | CEV220M16 | | | C5108 ,C5865 ,C6095 | CKSQYB471K50 | |
| | C5198 | CEV220M6R3 | | | C6009 | CKSQYB473K50 | |
| | C5157 ,C5174 ,C5180 ,C5307 | CEV470M16 | | | C5302 ,C5308 -C5310 ,C5315 -C5323 | CKSQYF104Z25 | |
| | C5311 -C5314 ,C5329 ,C5332 ,C5333 | CEV470M16 | | | C5330 ,C5340 ,C5346 ,C5362 ,C5366 | CKSQYF104Z25 | |
| | C5344 ,C5345 ,C5363 ,C5364 ,C5806 | CEV470M16 | | | C6089 ,C6148 | CKSQYF104Z25 | |
| | C5811 ,C5816 ,C5821 ,C5823 ,C5838 | CEV470M16 | | | C5864 ,C6027 -C6029 ,C6045 | CKSQYF104Z50 | |
| | C5841 -C5843 ,C5845 ,C5847 ,C5862 | CEV470M16 | | | C5173 ,C5175 ,C5177 ,C5179 | CKSRWF103Z50 | |
| | C5866 ,C5868 ,C5875 ,C5880 ,C5887 | CEV470M16 | | | | | |
| | C5892 ,C5894 ,C6010 ,C6012 ,C6014 | CEV470M16 | | | | | |
| | C6030 ,C6034 ,C6037 ,C6038 ,C6040 | CEV470M16 | | | | | |
| | C6048 ,C6070 ,C6075 ,C6078 ,C6083 | CEV470M16 | | | | | |
| | C6086 ,C6088 ,C6091 ,C6096 ,C6098 | CEV470M16 | | | | | |
| | C6107 | CEV470M16 | | | | | |
| | C5119 ,C5122 ,C5123 ,C5126 ,C5133 | CEV470M6R3 | | | | | |
| | C5140 ,C5142 ,C5146 ,C5149 ,C5150 | CEV470M6R3 | | | | | |
| | C5154 ,C5196 ,C5199 | CEV470M6R3 | | | | | |
| | C5335 ,C5336 ,C6047 ,C6060 | CEV4R7M35 | | | | | |
| | C5120 ,C5147 | CEVNP100M16 | | | | | |
| | C6016 ,C6032 ,C6033 | CEVNP1R0M50 | | | | | |
| | C5101 ,C5112 ,C5113 ,C5128 ,C5129 | CEVNP470M10 | | | | | |
| RESISTORS | | | | | | | |
| | R6127 -R6129 | RD1/4PU221J | | | | | |
| | R6094 | RN1/10SE1001D | | | | | |
| | R5120 ,R5131 ,R5172 ,R5183 | RN1/10SE1002D | | | | | |
| | R5833 ,R5835 -R5839 | RN1/10SE1301D | | | | | |
| | R5868 ,R5878 ,R5879 | RN1/10SE3601D | | | | | |
| | R5128 ,R5139 ,R5180 ,R5191 ,R5974 | RN1/10SE3901D | | | | | |
| | R5121 ,R5132 ,R5173 ,R5184 ,R5869 | RN1/10SE4701D | | | | | |
| | R5873 -R5877 ,R5976 ,R6002 ,R6154 | RN1/10SE4701D | | | | | |
| | R5127 ,R5138 ,R5179 ,R5190 ,R6153 | RN1/10SE5601D | | | | | |
| | R6093 | RN1/10SE6201D | | | | | |
| | R6130 | RN1/4PC6201F | | | | | |
| | R5975 | RS1/10S2201D | | | | | |
| | R5840 ,R5842 ,R5843 | RS1/2S681J | | | | | |
| | Other Resistors | RS1/10S□□□J | | | | | |

PDP-501MX ,PDP-V501X

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-----------------------------------|-----------------|----------------|-----------------------------------|-----------------------------------|-----|-------------|--------------|
| OTHERS | | | | C6414 | | | CCSRCH820J50 |
| J5101 | BORD IN WIRE | ADX2411 | | C6301 ,C6305 ,C6309 | | | CEAS471M25 |
| CN5101,CN5102 | 15PD-SUB SOCKET | AKP1172 | | C3744 ,C3906 ,C6420 | | | CEV100M16 |
| CN5103 | | AKX1050 | | C3703 ,C3704 ,C3706 ,C3742 ,C3924 | | | CEV101M6R3 |
| K5302 -K5306 ,K5311 -K5315 | | AKX9002 | | C6317 ,C6321 ,C6408 ,C6471 ,C6477 | | | CEV101M6R3 |
| K5318 -K5321 ,K5802 ,K5803 | | AKX9002 | | C6481 | | | CEV101M6R3 |
| K5805 -K5807 ,K6002 ,K6003 | | AKX9002 | | C3747 ,C6446 | | | CEV1R0M50 |
| K6005 -K6008 ,K6020 -K6023 | | AKX9002 | | C3746 | | | CEV220M16 |
| X5301 (16.000MHz) | | ASS1128 | | C6304 ,C6324 | | | CEV2R2M50 |
| CN5302 | 30P CONNECTOR | KF050HC30 | | C3714 ,C3749 ,C6310 ,C6314 ,C6315 | | | CEV470M16 |
| CN5301,CN5804 | 50P CONNECTOR | KF050HC50 | | C6319 ,C6401 ,C6404 ,C6406 ,C6411 | | | CEV470M16 |
| CN5803 | PLUG 12P | KM250MA13 | | C6441 ,C6519 | | | CEV470M16 |
| CN5802 | PLUG 6P | KM250MA6 | | C6431 | | | CEV470M6R3 |
| I U-COM ASS'Y | | | | C6416 | | | CEVNP100M16 |
| SEMICONDUCTORS | | | | C6302 ,C6303 ,C6306 -C6308 | | | CKSQYF103Z50 |
| IC3704 | | 24LC64(I)SN | | C6311 -C6313 ,C6316 ,C6318 ,C6320 | | | CKSQYF103Z50 |
| IC6471 | | HG62G010R29FB | | C6322 ,C6323 | | | CKSQYF103Z50 |
| IC3703 | | PD5435A9 | | C3725 ,C3726 ,C3730 ,C3731 | | | CKSRYB102K50 |
| IC6302,IC6303,IC6401 | | PQ20VZ1U | | C3735 -C3741 ,C3743 ,C3745 ,C3754 | | | CKSRYB102K50 |
| IC6301,IC6304 | | PQ30RV21 | | C6419 ,C6422 ,C6473 | | | CKSRYB102K50 |
| IC3702,IC3705 | | PST9146N | | C3705 ,C3707 -C3709 ,C3712 ,C3713 | | | CKSRYB103K50 |
| IC6305,IC6402 | | TA78M05F | | C3715 ,C3901 ,C3905 ,C3907 | | | CKSRYB103K50 |
| IC6441 | | TA8667F | | C6445 | | | CKSRYB222K50 |
| IC6431 | | TC35071F | | C6402 ,C6403 ,C6405 ,C6407 ,C6409 | | | CKSRYF103Z50 |
| IC6481 | | TC74ACT74FS | | C6412 ,C6417 | | | CKSRYF103Z50 |
| IC3906 | | TC74HC02AF | | C6418 ,C6432 ,C6434 ,C6435 | | | CKSRYF104Z16 |
| IC6482 | | TC74HC4040AF | | C6442 -C6444 ,C6452 ,C6462 ,C6472 | | | CKSRYF104Z16 |
| IC6505,IC6506 | | TC74LCX541FT | | C6474 -C6476 ,C6482 -C6484 | | | CKSRYF104Z16 |
| IC6507,IC6510 | | TC74VHC541FT | | C6506 -C6508 ,C6510 ,C6520 | | | CKSRYF104Z16 |
| IC3901,IC3903 | | TC74VHCT541AFT | | RESISTORS | | | |
| Q3710 -Q3713 ,Q3715 ,Q3717 ,Q3718 | 2SA1162 | | R6517 ,R6518 ,R6520 ,R6521 | | | | RA4C470J |
| Q3725 ,Q3726 ,Q6423 | | 2SA1162 | R6523 ,R6524 ,R6530 ,R6535 -R6537 | | | | RA4C470J |
| Q3701 ,Q3716 ,Q6411 -Q6413 ,Q6417 | 2SC2712 | | R4019 | | | | RD1/4PM473J |
| Q6421 ,Q6441 ,Q6451 ,Q6452 | | 2SC2712 | R3784 ,R3827 ,R3898 ,R3914 -R3925 | | | | RS1/16S0R0J |
| Q6461 ,Q6462 | | 2SC2712 | R3932 -R3935 ,R4007 | | | | RS1/16S0R0J |
| Q6418 ,Q6419 ,Q6442 | | 2SC2714 | R3701 ,R3702 ,R3720 ,R3721 | | | | RS1/16S101J |
| Q3709 | | 2SC2878 | R3748 -R3750 ,R3765 ,R3816 ,R3886 | | | | RS1/16S101J |
| Q6422 | | 2SK208 | R3909 -R3913 ,R3949 -R3956 | | | | RS1/16S101J |
| D3706 ,D3707 ,D3709 -D3712 | | 1SS226 | R3986 ,R3987 ,R3990 -R3992 ,R6411 | | | | RS1/16S101J |
| D6423 | | 1SS269 | R6418 ,R6425 ,R6427 ,R6437 | | | | RS1/16S101J |
| D6421 ,D6422 ,D6451 | | 1SS352 | R6440 ,R6441 ,R6448 ,R6451 ,R6453 | | | | RS1/16S101J |
| D3721 | | HSS104-02 | R6457 ,R6460 ,R6461 ,R6467 | | | | RS1/16S101J |
| D3704 ,D3705 ,D3708 ,D3713 | | RD6.8MB | R6471 -R6473 ,R6481 ,R6482 | | | | RS1/16S101J |
| COIL AND FILTERS | | | | R3783 ,R3826 ,R3877 ,R3899 | | | RS1/16S102J |
| L6401 | | ATC1037 | R3901 -R3908 ,R3926 -R3929 | | | | RS1/16S102J |
| F6401 -F6404 | | ATF1128 | R3941 -R3948 ,R3988 ,R3989 | | | | RS1/16S102J |
| F6507 -F6509 ,F6514 | | ATF1188 | R6474 -R6478 | | | | RS1/16S102J |
| L3701 | | LCTA100J3225 | R3736 ,R3741 ,R3811 ,R3813 ,R3818 | | | | RS1/16S103J |
| L6411 | | LCTA4R7J3225 | R3823 ,R3824 ,R3878 ,R3889 ,R6434 | | | | RS1/16S103J |
| CAPACITORS | | | | R6439 ,R6454 ,R6455 ,R6464 ,R6465 | | | RS1/16S103J |
| C6433 | | CCSRCH101J50 | R6416 | | | | RS1/16S104J |
| C6413 ,C6415 | | CCSRCH121J50 | R6415 | | | | RS1/16S122J |
| C3710 ,C3711 ,C3916 ,C3917 | | CCSRCH220J50 | R3897 | | | | RS1/16S123J |
| C6410 ,C6421 ,C6453 | | CCSRCH221J50 | R6413 | | | | RS1/16S151J |
| | | | R3887 | | | | RS1/16S152J |

| Mark | No. | Description | Part No. |
|------------------------------------|-----|--------------|----------|
| R3879 ,R6447 | | RS1/16S153J | |
| R6412 | | RS1/16S162J | |
| R6442 | | RS1/16S183J | |
| R3705 ,R3706 ,R3710 -R3712 ,R3719 | | RS1/16S221J | |
| R3722 -R3735 ,R3737 -R3740 | | RS1/16S221J | |
| R3742 -R3747 ,R3751 -R3764 ,R3767 | | RS1/16S221J | |
| R3774 -R3778 ,R3780 -R3782 | | RS1/16S221J | |
| R3814 ,R3815 ,R3817 ,R3819 -R3821 | | RS1/16S221J | |
| R3707 ,R3708 ,R3766 ,R3768 ,R3769 | | RS1/16S222J | |
| R3844 ,R3883 ,R6423 ,R6459 | | RS1/16S222J | |
| R3810 ,R3839 ,R3869 ,R3870 ,R3881 | | RS1/16S223J | |
| R3939 ,R6420 -R6422 ,R6458 | | RS1/16S223J | |
| R3822 ,R3867 | | RS1/16S224J | |
| R6431 | | RS1/16S271J | |
| R6426 | | RS1/16S272J | |
| R3885 | | RS1/16S392J | |
| R6446 | | RS1/16S393J | |
| R6452 ,R6462 | | RS1/16S432J | |
| R3884 ,R6519 ,R6522 ,R6525 | | RS1/16S470J | |
| R3888 | | RS1/16S471J | |
| R3713 -R3715 ,R3812 ,R3825 | | RS1/16S472J | |
| R3832 ,R3833 ,R3846 ,R3872 ,R3873 | | RS1/16S472J | |
| R4009 -R4014 ,R6456 ,R6466 | | RS1/16S472J | |
| R3847 -R3854 ,R3856 -R3866 ,R3868 | | RS1/16S473J | |
| R3874 ,R3875 ,R3882 ,R3995 ,R4006 | | RS1/16S473J | |
| R4020 ,R6435 | | RS1/16S473J | |
| R3880 | | RS1/16S562J | |
| R3779 | | RS1/16S563J | |
| R6414 | | RS1/16S681J | |
| R4003 ,R4005 ,R6436 ,R6444 | | RS1/16S682J | |
| R6445 | | RS1/16S754J | |
| R3834 ,R3835 ,R3840 -R3843 ,R3871 | | RS1/16S822J | |
| R3930 ,R3931 ,R6424 ,R6443 | | RS1/16S822J | |
| R3703 | | RS1LMFR47J | |
| R6311 | | RS2LMF150J | |
| R6401 | | RS2LMF220J | |
| R6315 ,R6316 | | RS3LMF100J | |
| R6317 | | RS3LMF3R3J | |
| Other Resistors | | RS1/10S□□□J | |
| OTHERS | | | |
| K3703 ,K3706 -K3713 | | AKX9002 | |
| KN6304 GROUND PLATE | | ANK-142 | |
| X3702 CRYSTAL (9.8304MHz) | | ASS1127 | |
| 6303 SCREW | | BMZ30P060FCU | |
| CN6502,CN6503,CN6507,CN6508 | | | |
| 50P CONNECTOR | | KF050HA50L | |
| CN3901,CN3904,CN6501,CN6504-CN6506 | | | |
| 50P CONNECTOR | | KF050HC50 | |
| CN3902 PLUG 12P | | KM250MA12B | |
| CN3903 PLUG 3P | | KM250MA3 | |
| CN6302 PLUG 6P | | KM250MA6 | |
| CN3702 PLUG 8P | | KM250MA8 | |
| CN6303 PLUG 8P | | KM250MA8B | |
| CN6301 PLUG 9P | | KM250MA9 | |
| CN3704 3P CONNECTOR | | KPE3 | |

| Mark | No. | Description | Part No. |
|-----------------------------------|--------------|-----------------|--------------|
| O | | CABLE E ASS'Y | |
| SEMICONDUCTORS | | | |
| | | IC7421,IC7422 | TC74VHC541FT |
| | | IC7423-IC7426 | TC74VHC574FT |
| COIL AND FILTERS | | | |
| F7401 ,F7425 | | ATF1124 | |
| F7421 -F7424 ,F7426 ,F7427 | | ATF1188 | |
| L7401 ,L7402 (100µH) | | ATH1065 | |
| CAPACITORS | | | |
| C7404 ,C7428 | | CEHV101M16 | |
| C7401 ,C7402 | | CEHV470M16 | |
| C7403 ,C7421 -C7427 | | CKSRYF104Z16 | |
| RESISTORS | | | |
| R7421 -R7442 | | RA4C470J | |
| OTHERS | | | |
| K7401 -K7404 | | AKX9002 | |
| CN7408,CN7409 30P CONNECTOR | | KF050HA30L | |
| CN7406,CN7407 40P CONNECTOR | | KF050HA40L | |
| CN7401-CN7405 30P CONNECTOR | | KF050HC30 | |
| E | | X DRIVE A ASS'Y | |
| SEMICONDUCTORS | | | |
| IC2606-IC2609 | | HCPL-M611 | |
| IC2612 | | PE1006A | |
| IC2610,IC2611 | | STK795-120A | |
| IC2605 | | TC74ACT541FS | |
| IC2613 | | TC74VHC541FT | |
| IC2601-IC2604 | | UPC78L05T | |
| Q2603 ,Q2605 ,Q2608 ,Q2611 ,Q2714 | 2SA1162 | | |
| Q2604 ,Q2606 ,Q2607 ,Q2609 ,Q2610 | 2SC2712 | | |
| Q2612 ,Q2614 ,Q2713 | 2SC2712 | | |
| Q2702 ,Q2703 | 2SJ281 | | |
| Q2708 | | 2SK2167 | |
| D2604 ,D2605 ,D2607 ,D2703 | 1SS352 | | |
| D2601 ,D2602 | D1FL20U | | |
| COIL AND FILTERS | | | |
| L2601 -L2604 | | ATH1020 | |
| L2605 ,L2606 ,L2701 | | ATH1064 | |
| L2607 (100µH) | | ATH1066 | |
| L2609 (47µH) | | ATH1067 | |
| L2608 (22µH) | | ATH1068 | |
| CAPACITORS | | | |
| C2622 ,C2623 | (2.2µF/250V) | ACE1113 | |
| C2620 ,C2621 | (470µF/200V) | ACH1293 | |
| C2708 | (100µF/250V) | ACH1301 | |
| C2608 ,C2609 ,C2611 ,C2612 ,C2619 | CEHV101M16 | | |
| C2713 ,C2714 | CEHV101M16 | | |
| C2613 ,C2626 | | CEHV221M16 | |
| C2607 ,C2610 | | CEHV331M16 | |
| C2614 -C2618 | | CEHV470M16 | |
| C2602 -C2604 ,C2606 | | CKSRYF104Z50 | |
| C2601 ,C2605 ,C2625 ,C2627 ,C2629 | CKSRYB103K50 | | |
| RESISTORS | | | |
| R2620 ,R2624 ,R2626 ,R2632 ,R2634 | RA4C470J | | |
| R2616 ,R2617 | RD1/2PM4R7J | | |
| R2734 | RS1LMF563J | | |

PDP-501MX ,PDP-V501X

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|--|------------------------|--------------|-------------|-------------------------|-----------------------------|-----------------------------|-------------|
| | R2730 | | RS2LMF562J | | Q3301 | ,Q3305 | 2SA1162 |
| | R2738 | | RS3LMF122J | | Q3104 | ,Q3106 ,Q3107 ,Q3109 ,Q3110 | 2SC2712 |
| | R2737 | | RS3LMF561J | | Q3112 | ,Q3114 ,Q3302 ,Q3306 ,Q3309 | 2SC2712 |
| | Other Resistors | | RS1/10S□□□J | | Q3215 | | 2SJ181S |
| OTHERS | | | | | Q3103 | ,Q3202 ,Q3203 | 2SJ281 |
| CN2601 | PLUG 2P | AKM-089 | | | Q3201 | | 2SJ449 |
| K2601 ,K2602 ,K2604 -K2606 | | AKX9002 | | | Q3205 | ,Q3216 | 2SK2167 |
| K2608 ,K2609 ,K2611 ,K2613 -K2616 | | AKX9002 | | | Q3006 | ,Q3012 ,Q3206 -Q3209 | 2SK2255-01M |
| K2702 | | AKX9002 | | | Q3204 | | 2SK2355 |
| KN2601 | GROUND PLATE | ANK-142 | | | Q3101 | | 2SK2796S |
| CN2708-CN2711 50P CONNECTOR | | KF050HB50L | | | Q3005 | ,Q3011 | FS14UM-9 |
| CN2604,CN2608,CN2706,CN2707 | | | | | Q3003 | ,Q3004 ,Q3009 ,Q3010 | FS30AS-06 |
| | 50P CONNECTOR | KF050HC50 | | | D3104 | ,D3105 ,D3107 ,D3209 ,D3320 | 1SS352 |
| CN2602 | PLUG 7P | KM250MA7 | | | D3322 | | 1SS352 |
| CN2605 | PLUG 7P | KM250MA7R | | | D3311 | | 1Z180 |
| AM | SENSER A ASSY | | | | D3001 | ,D3002 ,D3004 ,D3005 | D1FL20U |
| | | | | | D3101 | ,D3102 ,D3106 ,D3201 -D3206 | D1FL20U |
| | | | | | D3313 | ,D3314 ,D3325 ,D3326 | D1FL20U |
| | | | | | D3315 | | D1FL40 |
| | | | | | D3318 | | RD110P |
| | | | | | D3319 | | RD15MB |
| | | | | | D3316 | ,D3317 ,D3321 ,D3327 ,D3328 | RD33MB |
| | | | | | D3312 | | S2L60 |
| RESISTORS | | | | COIL AND FILTERS | | | |
| Other Resistors | | RS1/10S□□□J | | L3101 | ,L3102 ,L3105 ,L3106 | ATH1020 | |
| OTHERS | | | | L3001 | ,L3002 ,L3103 ,L3107 | ATH1064 | |
| CN8084 | 3P SOCKET | KP200IA3L | | L3109 | ,L3110 ,L3201 (100µH) | ATH1066 | |
| AN | SENSER B ASSY | | | L3104 | ,L3301 ,L3302 (47µH) | ATH1067 | |
| | | | | L3108 | (22µH) | ATH1068 | |
| | | | | T3302 | | ATK1113 | |
| SEMICONDUCTORS | | | | CAPACITORS | | | |
| IC8055 | | LM50CIM3 | | C3107 | ,C3120 (2.2µF/250V) | ACE1113 | |
| CAPACITORS | | | | C3106 | ,C3121 (470µF/200V) | ACH1293 | |
| C8078 | | CKSQYF103Z50 | | C3016 | ,C3032 (330µF/100V) | ACH1297 | |
| C8093 | | CKSQYF104Z50 | | C3015 | ,C3031 (180µF/200V) | ACH1307 | |
| RESISTORS | | | | C3205 | ,C3209 | CCSQCH220J50 | |
| Other Resistors | | RS1/10S□□□J | | | | | |
| G | Y DRIVE A ASS'Y | | | | | | |
| | | | | C3003 | ,C3006 ,C3009 ,C3019 ,C3022 | CCSRCH220J50 | |
| SEMICONDUCTORS | | | | C3025 | | CCSRCH220J50 | |
| IC3307 | | AN1431M | | C3303 | ,C3314 ,C3315 | CEHAQ220M2D | |
| IC3013-IC3018,IC3110-IC3113 | | HCPL-M611 | | C3201 | | CEHAQ220M2E | |
| IC3205,IC3206 | | HCPL-M611 | | C3011 | -C3013 ,C3027 -C3029 ,C3110 | CEHV101M16 | |
| IC3001-IC3003,IC3007-IC3009,IC3201ICL7667CBA | | | | | | | |
| IC3203 | | ICL7667CBA | | C3115 | ,C3116 ,C3118 ,C3119 ,C3204 | CEHV101M16 | |
| | | | | C3208 | ,C3215 | CEHV101M16 | |
| IC3308 | | MIP161 | | C3113 | ,C3124 | CEHV221M16 | |
| IC3306,IC3309,IC3311 | | PC817AB | | C3114 | ,C3117 ,C3319 ,C3321 ,C3325 | CEHV331M16 | |
| IC3109 | | PDT042A | | C3327 | | CEHV331M16 | |
| IC3310 | | PQ20VZ1U | | | | | |
| IC3101,IC3106 | | STK795-120A | | C3033 | -C3038 ,C3112 ,C3125 -C3128 | CEHV470M16 | |
| | | | | C3213 | ,C3214 ,C3216 ,C3217 ,C3310 | CEHV470M16 | |
| IC3107 | | TC74ACT541FS | | C3312 | ,C3318 ,C3322 ,C3323 | CEHV470M16 | |
| IC3114-IC3116 | | TC74VHC541FT | | C3001 | ,C3002 ,C3004 ,C3005 | CKSQYF104Z50 | |
| IC3004-IC3006,IC3010-IC3012 | | UPC78L05T | | C3007 | ,C3008 ,C3017 ,C3018 | CKSQYF104Z50 | |
| IC3102-IC3105,IC3202,IC3204 | | UPC78L05T | | | | | |
| Q3102 ,Q3105 ,Q3108 ,Q3111 ,Q3217 | | | | C3020 | ,C3021 ,C3023 ,C3024 | CKSQYF104Z50 | |
| | | | | C3103 | -C3105 ,C3109 ,C3202 ,C3203 | CKSQYF104Z50 | |
| | | | | C3206 | ,C3207 ,C3313 ,C3316 ,C3317 | CKSQYF104Z50 | |
| | | | | C3320 | | CKSQYF104Z50 | |

| Mark | No. | Description | Part No. |
|-----------------------------------|-----|--------------|----------|
| C3108 ,C3111 ,C3122 ,C3129 -C3131 | | CKSRYB103K50 | |
| RESISTORS | | | |
| R3122 ,R3123 ,R3129 ,R3130 | | RA4C470J | |
| R3146 -R3150 ,R3154 | | RA4C470J | |
| R3115 | | RD1/2PM102J | |
| R3213 ,R3214 | | RD1/2PM152J | |
| R3116 ,R3117 | | RD1/2PM4R7J | |
| R3336 | | RS1/10S1101F | |
| R3328 | | RS1/10S1501F | |
| R3337 | | RS1/10S3301F | |
| R3321 -R3324 ,R3326 ,R3327 | | RS1/10S7502F | |
| R3246 ,R3248 | | RS1LMF563J | |
| R3349 | | RS2LMF153J | |
| R3210 | | RS2LMF562J | |
| R3014 -R3016 ,R3039 -R3041 | | RS3LMF1R8J | |
| R3209 ,R3241 | | RS3LMF391J | |
| R3201 | | RS3LMF6R8J | |
| VR3302 | | VRTS6HS102 | |
| Other Resistors | | RS1/10S□□□J | |
| OTHERS | | | |
| K3101 -K3106 ,K3108 -K3115 | | AKX9002 | |
| K3117 -K3124 ,K3203 ,K3204 ,K3206 | | AKX9002 | |
| K3301 -K3308 | | AKX9002 | |
| KN3101 GROUND PLATE | | ANK-142 | |
| CN3301,CN3302 30P CONNECTOR | | KF050HC30 | |
| CN3104,CN3202,CN3203 | | | |
| 50P CONNECTOR | | KF050HC50 | |
| CN3103 PLUG 10P | | KM250MA10 | |
| CN3102 PLUG 10P | | KM250MA10R | |
| CN3003,CN3004,CN3201 | | | |
| PLUG 3P | | KM250MA3 | |
| CN3207 PLUG 3P | | KM250MA3R | |
| CN3105,CN3106,CN3303,CN3304 | | | |
| PLUG 4P | | KM250MA4B | |

A1 DC FAN A ASSY

SEMICONDUCTORS

| | |
|----------------------------|----------|
| IC8611 | M5223FP |
| IC8610 | PQ20VZ1U |
| Q8616 ,Q8617 | 2SA1162 |
| Q8601 ,Q8602 ,Q8620 ,Q8621 | 2SC2712 |
| D8611 ,D8613 ,D8615 | 1SS352 |

| | |
|-------|---------|
| D8601 | UDZ5.1B |
|-------|---------|

CAPACITORS

| | |
|---------------------|--------------|
| C8624 | CEV100M16 |
| C8601 ,C8602 ,C8622 | CEV220M16 |
| C8623 | CEV470M16 |
| C8625 | CKSQYF103Z50 |

RESISTORS

| | |
|--------------|---------------|
| R8724 | RD1/4LMF100J |
| R8601 ,R8614 | RN1/10SE1001D |
| R8699 | RN1/10SE1002D |
| R8712 | RN1/10SE1501D |
| R8702 | RN1/10SE1801D |
| R8704 | RN1/10SE2001D |

| Mark | No. | Description | Part No. |
|--|-----|---------------|----------|
| R8695 ,R8700 | | RN1/10SE2401D | |
| R8703 | | RN1/10SE3001D | |
| R8711 | | RN1/10SE3301D | |
| R8602 | | RN1/10SE3901D | |
| R8692 | | RN1/10SE4700D | |
| R8603 ,R8615 | | RN1/10SE4701D | |
| R8696 | | RN1/10SE6201D | |
| Other Resistors | | RS1/10S□□□J | |
| OTHERS | | | |
| K8609 ,K8610 | | AKX9002 | |
| AJ DC FAN B ASSY | | | |
| SEMICONDUCTORS | | | |
| IC8609 | | M5223FP | |
| IC8606,IC8608 | | PQ20VZ1U | |
| Q8610 ,Q8611 | | 2SC2712 | |
| CAPACITORS | | | |
| C8614 ,C8616 ,C8618 ,C8620 | | CEV220M16 | |
| C8619 | | CKSQYF103Z50 | |
| C8627 ,C8628 | | CKSQYF104Z50 | |
| RESISTORS | | | |
| R8664 -R8666 ,R8668 ,R8679 | | RN1/10SE1001D | |
| R8660 | | RN1/10SE1501D | |
| R8671 | | RN1/10SE2401D | |
| R8667 ,R8675 | | RN1/10SE3001D | |
| R8678 ,R8682 | | RN1/10SE3901D | |
| R8663 | | RN1/10SE5601D | |
| R8661 | | RN1/10SE6201D | |
| Other Resistors | | RS1/10S□□□J | |
| OTHERS | | | |
| K8606 ,K8607 | | AKX9002 | |
| H Y DRIVE B ASS'Y | | | |
| SEMICONDUCTORS | | | |
| IC3302 | | AN1431M | |
| IC3013-IC3018,IC3110-IC3113 | | HCPL-M611 | |
| IC3205,IC3206 | | HCPL-M611 | |
| IC3001-IC3003,IC3007-IC3009,IC3201ICL7667CBA | | | |
| IC3203 | | ICL7667CBA | |
| IC3303 | | MIP161 | |
| IC3301,IC3304,IC3312 | | PC817AB | |
| IC3109 | | PDT042A | |
| IC3305 | | PQ20VZ1U | |
| IC3101,IC3106 | | STK795-120A | |
| IC3107 | | TC74ACT541FS | |
| IC3114-IC3116 | | TC74VHC541FT | |
| IC3004-IC3006,IC3010-IC3012 | | UPC78L05T | |
| IC3102-IC3105,IC3202,IC3204 | | UPC78L05T | |
| Q3102 ,Q3105 ,Q3108 ,Q3111 ,Q3217 | | 2SA1162 | |
| Q3303 ,Q3307 | | 2SA1162 | |
| Q3104 ,Q3106 ,Q3107 ,Q3109 ,Q3110 | | 2SC2712 | |
| Q3112 ,Q3114 ,Q3304 ,Q3308 ,Q3310 | | 2SC2712 | |
| Q3215 | | 2SJ181S | |
| Q3103 ,Q3202 ,Q3203 | | 2SJ281 | |

PDP-501MX ,PDP-V501X

| Mark | No. | Description | Part No. |
|-----------------------------------|--------------|--------------------|-----------------|
| Q3201 | | | 2SJ449 |
| Q3205 ,Q3216 | | | 2SK2167 |
| Q3006 ,Q3012 ,Q3206 -Q3209 | | | 2SK2255-01M |
| Q3204 | | | 2SK2355 |
| Q3101 | | | 2SK2796S |
| Q3005 ,Q3011 | | | FS14UM-9 |
| Q3003 ,Q3004 ,Q3009 ,Q3010 | | | FS30AS-06 |
| D3104 ,D3105 ,D3107 ,D3209 ,D3310 | | | 1SS352 |
| D3324 | | | 1SS352 |
| D3301 | | | 1Z180 |
| D3001 ,D3002 ,D3004 ,D3005 | | | D1FL20U |
| D3101 ,D3102 ,D3201 -D3206 | | | D1FL20U |
| D3303 ,D3304 ,D3325 ,D3326 | | | D1FL20U |
| D3305 | | | D1FL40 |
| D3308 | | | RD110P |
| D3309 | | | RD15MB |
| D3306 ,D3307 ,D3323 ,D3327 ,D3328 | | | RD33MB |
| D3302 | | | S2L60 |
| COIL AND FILTERS | | | |
| L3101 ,L3102 ,L3105 ,L3106 | | | ATH1020 |
| L3001 ,L3002 ,L3103 ,L3107 | | | ATH1064 |
| L3109 ,L3110 ,L3201 (100µH) | | | ATH1066 |
| L3104 ,L3301 ,L3302 (47µH) | | | ATH1067 |
| L3108 (22µH) | | | ATH1068 |
| T3301 | | | ATK1113 |
| CAPACITORS | | | |
| C3107 ,C3120 | (2.2µF/250V) | | ACE1113 |
| C3106 ,C3121 | (470µF/200V) | | ACH1293 |
| C3016 ,C3032 | (330µF/100V) | | ACH1297 |
| C3015 ,C3031 | (180µF/200V) | | ACH1307 |
| C3205 ,C3209 | | | CCSQCH220J50 |
| C3003 ,C3006 ,C3009 ,C3019 ,C3022 | | | CCSRCH220J50 |
| C3025 | | | CCSRCH220J50 |
| C3302 ,C3303 ,C3315 | | | CEHAQ220M2D |
| C3201 | | | CEHAQ220M2E |
| C3011 -C3013 ,C3027 -C3029 ,C3110 | | | CEHV101M16 |
| C3115 ,C3116 ,C3118 ,C3119 ,C3204 | | | CEHV101M16 |
| C3208 ,C3215 | | | CEHV101M16 |
| C3113 ,C3124 | | | CEHV221M16 |
| C3114 ,C3117 ,C3307 ,C3309 | | | CEHV331M16 |
| C3326 ,C3327 | | | CEHV331M16 |
| C3033 -C3038 ,C3112 ,C3125 -C3128 | | | CEHV470M16 |
| C3213 ,C3214 ,C3216 ,C3217 ,C3306 | | | CEHV470M16 |
| C3310 ,C3311 ,C3322 ,C3324 | | | CEHV470M16 |
| C3001 ,C3002 ,C3004 ,C3005 | | | CKSQYF104Z50 |
| C3007 ,C3008 ,C3017 ,C3018 | | | CKSQYF104Z50 |
| C3020 ,C3021 ,C3023 ,C3024 | | | CKSQYF104Z50 |
| C3103 -C3105 ,C3109 ,C3202 ,C3203 | | | CKSQYF104Z50 |
| C3206 ,C3207 ,C3301 ,C3304 ,C3305 | | | CKSQYF104Z50 |
| C3308 | | | CKSQYF104Z50 |
| C3108 ,C3111 ,C3122 ,C3129 -C3131 | | | CKSRYB103K50 |
| RESISTORS | | | |
| R3122 ,R3123 ,R3129 ,R3130 | | | RA4C470J |
| R3146 -R3150 ,R3154 | | | RA4C470J |
| R3115 | | | RD1/2PM102J |
| R3213 ,R3214 | | | RD1/2PM152J |

| Mark | No. | Description | Part No. |
|-------------------------|-----------------------------|--------------------|-----------------|
| | R3116 ,R3117 | | RD1/2PM4R7J |
| | R3317 | | RS1/10S1101F |
| | R3309 | | RS1/10S1501F |
| | R3318 | | RS1/10S3301F |
| | R3302 -R3305 ,R3307 ,R3308 | | RS1/10S7502F |
| | R3246 ,R3248 | | RS1LMF563J |
| | R3354 | | RS2LMF153J |
| | R3210 | | RS2LMF562J |
| | R3014 -R3016 ,R3039 -R3041 | | RS3LMF1R8J |
| | R3209 ,R3241 | | RS3LMF391J |
| | R3201 | | RS3LMF6R8J |
| | VR3301 | | VRTS6HS102 |
| | Other Resistors | | RS1/10S□□□J |
| OTHERS | | | |
| | K3101 -K3106 ,K3108 -K3115 | | AKX9002 |
| | K3117 -K3124 ,K3203 -K3205 | | AKX9002 |
| | K3301 -K3308 | | AKX9002 |
| | KN3101 GROUND PLATE | | ANK-142 |
| | CN3301,CN3302 30P CONNECTOR | | KF050HC30 |
| | CN3104,CN3204,CN3205 | | |
| | 50P CONNECTOR | | KF050HC50 |
| | CN3102 PLUG 10P | | KM250MA10R |
| | CN3003,CN3004 PLUG 3P | | KM250MA3 |
| | CN3201 PLUG 3P | | KM250MA3R |
| AK DC FAN C ASSY | | | |
| SEMICONDUCTORS | | | |
| | IC8605 | | M5223FP |
| | IC8604 | | PQ20VZ1U |
| | D8612 | | 1SS352 |
| CAPACITORS | | | |
| | C8611 | | CEV100M16 |
| | C8607 ,C8608 ,C8633 | | CEV220M16 |
| | C8610 | | CEV470M16 |
| | C8631 ,C8632 | | CKSQYF103Z50 |
| | C8629 | | CKSQYF104Z50 |
| RESISTORS | | | |
| | R8618 ,R8619 ,R8621 ,R8626 | | RN1/10SE1001D |
| | R8620 | | RN1/10SE3601D |
| | Other Resistors | | RS1/10S□□□J |
| OTHERS | | | |
| | K8605 | | AKX9002 |
| AL DC FAN D ASSY | | | |
| SEMICONDUCTORS | | | |
| | IC8602,IC8603 | | M5223FP |
| | IC8601 | | PQ20VZ1U |
| | Q8606 ,Q8607 | | 2SA1162 |
| | Q8608 ,Q8609 ,Q8618 ,Q8619 | | 2SC2712 |
| | D8608 ,D8614 ,D8616 | | 1SS352 |
| CAPACITORS | | | |
| | C8613 | | CEV100M16 |
| | C8604 ,C8612 ,C8617 ,C8630 | | CEV220M16 |
| | C8603 | | CEV470M16 |
| | C8605 ,C8615 | | CKSQYF103Z50 |
| | C8626 | | CKSQYF104Z50 |

| Mark | No. | Description | Part No. |
|-----------------------------------|---------|---------------|----------|
| RESISTORS | | | |
| R8637 ,R8638 ,R8640 ,R8643 ,R8655 | | RN1/10SE1001D | |
| R8646 | | RN1/10SE1002D | |
| R8656 | | RN1/10SE1501D | |
| R8651 ,R8722 | | RN1/10SE2001D | |
| R8612 ,R8647 | | RN1/10SE2401D | |
| R8639 | | RN1/10SE3601D | |
| R8650 ,R8721 | | RN1/10SE3901D | |
| R8605 ,R8720 | | RN1/10SE4700D | |
| R8649 | | RN1/10SE4701D | |
| R8653 ,R8657 | | RN1/10SE5601D | |
| R8613 | | RN1/10SE6201D | |
| Other Resistors | | RS1/10S□□□J | |
| OTHERS | | | |
| K8604 ,K8608 | | AKX9002 | |
| P CABLE F ASS'Y | | | |
| SEMICONDUCTORS | | | |
| IC7525,IC7526 | | TC74VHC541FT | |
| IC7521-IC7524 | | TC74VHC574FT | |
| COIL AND FILTERS | | | |
| F7501 ,F7527 | | ATF1124 | |
| F7521 -F7526 | | ATF1188MH | |
| L7501 ,L7502 (100μH) | | ATH1065 | |
| CAPACITORS | | | |
| C7504 ,C7528 | | CEHV101M16 | |
| C7501 ,C7502 | | CEHV470M16 | |
| C7503 ,C7521 -C7527 | | CKSRYF104Z16 | |
| RESISTORS | | | |
| R7521 -R7542 | | RA4C470J | |
| OTHERS | | | |
| K7501 -K7504 | | AKX9002 | |
| CN7508,CN7509 30P CONNECTOR | | KF050HA30L | |
| CN7506,CN7507 40P CONNECTOR | | KF050HA40L | |
| CN7501-CN7505 30P CONNECTOR | | KF050HC30 | |
| F X DRIVE B ASS'Y | | | |
| SEMICONDUCTORS | | | |
| IC2606-IC2609 | | HCPL-M611 | |
| IC2612 | | PE1006A | |
| IC2610,IC2611 | | STK795-120A | |
| IC2605 | | TC74ACT541FS | |
| IC2613 | | TC74VHC541FT | |
| IC2601-IC2604 | | UPC78L05T | |
| Q2603 ,Q2605 ,Q2608 ,Q2611 ,Q2714 | 2SA1162 | | |
| Q2604 ,Q2606 ,Q2607 ,Q2609 ,Q2610 | 2SC2712 | | |
| Q2612 ,Q2614 ,Q2713 | 2SC2712 | | |
| Q2702 ,Q2703 | 2SJ281 | | |
| Q2708 | 2SK2167 | | |
| D2604 ,D2605 ,D2607 ,D2703 | 1SS352 | | |
| D2601 | D1FL20U | | |
| COIL AND FILTERS | | | |
| L2601 -L2604 | | ATH1020 | |
| L2605 ,L2606 ,L2701 | | ATH1064 | |
| L2607 (100μH) | | ATH1066 | |

| Mark | No. | Description | Part No. |
|-----------------------------------|--------------|-------------|--------------|
| L2609 (47μH) | | | ATH1067 |
| L2608 (22μH) | | | ATH1068 |
| CAPACITORS | | | |
| C2622 ,C2623 | (2.2μF/250V) | | ACE1113 |
| C2620 ,C2621 | (470μF/200V) | | ACH1293 |
| C2708 | (100μF/250V) | | ACH1301 |
| C2608 ,C2609 ,C2611 ,C2612 ,C2619 | | | CEHV101M16 |
| C2713 ,C2714 | | | CEHV101M16 |
| C2613 ,C2626 | | | CEHV221M16 |
| C2607 ,C2610 | | | CEHV331M16 |
| C2614 -C2618 | | | CEHV470M16 |
| C2602 -C2604 ,C2606 | | | CKSQYF104Z50 |
| C2601 ,C2605 ,C2625 ,C2627 ,C2629 | | | CKSRYB103K50 |
| RESISTORS | | | |
| R2620 ,R2624 ,R2626 ,R2632 ,R2634 | | | RA4C470J |
| R2616 ,R2617 | | | RD1/2PM4R7J |
| R2734 | | | RS1LMF563J |
| R2730 | | | RS2LMF562J |
| R2738 | | | RS3LMF122J |
| R2737 | | | RS3LMF561J |
| Other Resistors | | | RS1/10S□□□J |
| OTHERS | | | |
| CN2601 | PLUG 2P | | AKM-089 |
| K2601 ,K2602 ,K2604 -K2606 | | | AKX9002 |
| K2608 ,K2609 ,K2611 ,K2613 -K2616 | | | AKX9002 |
| K2702 | | | AKX9002 |
| KN2601 | GROUND PLATE | | ANK-142 |
| CN2708-CN2711 50P CONNECTOR | | | KF050HB50L |
| CN2604,CN2613,CN2706,CN2707 | | | |
| 50P CONNECTOR | | | KF050HC50 |
| CN2606 | 10P PLUG | | KM200IA3 |
| CN2602 | PLUG 7P | | KM250MA7R |
| AQ SIDE SWITCH ASS'Y | | | |
| SWITCHES AND RELAYS | | | |
| S2571 -S2577 | | | ASG1034 |
| CAPACITORS | | | |
| C2571 | | | CKSQYF104Z50 |
| RESISTORS | | | |
| Other Resistors | | | RS1/10S□□□J |
| OTHERS | | | |
| J2571 | HOUSING WIRE | | ADX2471 |
| AP 3D Y/C SEP. ASS'Y | | | |
| SEMICONDUCTORS | | | |
| IC3355 | | | MC14577CP |
| IC3205 | | | MN4776AS |
| IC3202 | | | MN4777AS |
| IC3353 | | | NJM2234M |
| IC3350 | | | NJM7805FA |
| IC3352 | | | UPC1861GR |
| IC3203 | | | UPC1862GS |
| IC3201 | | | UPC659AGS |
| IC3204 | | | UPD6487GF3BA |
| Q3203 ,Q3204 ,Q3206 ,Q3208 ,Q3212 | 2SA1037K | | |

PDP-501MX ,PDP-V501X

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-------------------------|-----------------------------------|--------------|----------|-----------------------------------|-------------|-------------|------------|
| | Q3351 | | 2SA1037K | | C3224 | | CQMA223J50 |
| | Q3201 ,Q3202 ,Q3205 ,Q3207 | | 2SC2412K | RESISTORS | | | |
| | Q3209 -Q3211 ,Q3213 -Q3217 ,Q3220 | 2SC2412K | | R3227 ,R3265 ,R3292 ,R3380 ,R3382 | RS1/16S0R0J | | |
| | Q3350 ,Q3352 -Q3357 ,Q3359 ,Q3364 | 2SC2412K | | R3408 ,R3409 | RS1/16S0R0J | | |
| | D3201 | 1SS184 | | R3387 ,R3406 | RS1/16S100J | | |
| | D3350 -D3356 | 1SS226 | | R3201 ,R3207 ,R3208 ,R3213 | RS1/16S101J | | |
| COIL AND FILTERS | | | | R3217 ,R3218 ,R3220 ,R3224 ,R3232 | RS1/16S101J | | |
| | F3201 ,F3202 | ATF1127 | | RESISTORS | | | |
| | F3203 | ATF1179 | | R3236 ,R3238 ,R3254 ,R3266 ,R3267 | RS1/16S101J | | |
| | L3350 | ATH1046 | | R3273 -R3276 ,R3278 ,R3281 ,R3282 | RS1/16S101J | | |
| | DL3350 | ATN1023 | | R3285 ,R3286 ,R3352 ,R3358 ,R3359 | RS1/16S101J | | |
| | L3202 -L3206 ,L3208 ,L3210 | ATX1008 | | R3365 ,R3367 ,R3373 ,R3374 | RS1/16S101J | | |
| | L3352 -L3354 ,L3357 ,L3358 | ATX1008 | | R3378 ,R3379 ,R3388 -R3390 ,R3399 | RS1/16S101J | | |
| | L3209 | LCTA100J3225 | | RESISTORS | | | |
| | L3355 ,L3356 | LCTA150J3225 | | R3202 ,R3214 ,R3249 ,R3257 ,R3258 | RS1/16S102J | | |
| | L3201 ,L3207 | LCTA220J3225 | | R3279 ,R3298 ,R3308 ,R3357 | RS1/16S102J | | |
| CAPACITORS | | | | R3216 ,R3226 ,R3235 ,R3250 ,R3251 | RS1/16S103J | | |
| | C3362 | CCSQCH120J50 | | R3253 ,R3255 ,R3384 -R3386 ,R3403 | RS1/16S103J | | |
| | C3271 | CCSQCH151J50 | | R3412 ,R3417 | RS1/16S103J | | |
| | C3234 | CCSQCH221J50 | | RESISTORS | | | |
| | C3228 ,C3267 ,C3360 | CCSQCH330J50 | | R3241 ,R3280 | RS1/16S104J | | |
| | C3201 ,C3230 | CCSQCH390J50 | | R3228 | RS1/16S105J | | |
| | C3270 | CCSQCH470J50 | | R3211 | RS1/16S122J | | |
| | C3219 | CCSQCK1R0C50 | | R3414 ,R3419 | RS1/16S123J | | |
| | C3203 | CEAT100M50 | | R3230 ,R3353 | RS1/16S151J | | |
| | C3204 | CEAT101M25 | | RESISTORS | | | |
| | C3240 ,C3241 ,C3252 | CEAT1R0M50 | | R3203 ,R3248 ,R3360 | RS1/16S152J | | |
| | C3206 ,C3214 ,C3216 ,C3226 ,C3250 | CEAT221M10 | | R3355 | RS1/16S153J | | |
| | C3256 ,C3258 ,C3367 | CEAT221M10 | | R3259 | RS1/16S162J | | |
| | C3368 | CEAT2R2M50 | | R3369 ,R3372 | RS1/16S182J | | |
| | C3350 -C3352 ,C3357 | CEAT331M16 | | R3363 ,R3371 | RS1/16S183J | | |
| | C3221 ,C3236 ,C3243 ,C3260 ,C3262 | CEAT470M25 | | RESISTORS | | | |
| | C3264 ,C3273 ,C3365 ,C3366 | CEAT470M25 | | R3272 | RS1/16S201J | | |
| | C3372 -C3374 ,C3406 | CEAT470M25 | | R3240 ,R3243 | RS1/16S221J | | |
| | C3223 ,C3239 | CEAT4R7M50 | | R3239 ,R3289 ,R3291 ,R3295 ,R3297 | RS1/16S222J | | |
| | C3217 | CEATR10M50 | | R3283 ,R3284 ,R3288 ,R3290 ,R3294 | RS1/16S223J | | |
| | C3274 | CEATR22M50 | | R3296 ,R3375 | RS1/16S223J | | |
| | C3227 | CEATR47M50 | | RESISTORS | | | |
| | C3232 | CKSQYB102K50 | | R3210 | RS1/16S241J | | |
| | C3215 ,C3218 ,C3222 ,C3225 ,C3229 | CKSQYB103K50 | | R3209 | RS1/16S242J | | |
| | C3231 ,C3235 ,C3238 ,C3242 | CKSQYB103K50 | | R3222 ,R3223 ,R3245 ,R3262 -R3264 | RS1/16S271J | | |
| | C3268 ,C3269 | CKSQYB103K50 | | R3206 ,R3247 ,R3381 | RS1/16S272J | | |
| | C3237 | CKSQYB152K50 | | R3215 | RS1/16S273J | | |
| | C3233 | CKSQYB222K50 | | RESISTORS | | | |
| | C3202 ,C3247 ,C3251 ,C3259 ,C3361 | CKSQYF103Z50 | | R3256 | RS1/16S302J | | |
| | C3363 ,C3364 ,C3370 ,C3371 | CKSQYF103Z50 | | R3204 | RS1/16S331J | | |
| | C3375 -C3379 ,C3382 ,C3383 | CKSQYF103Z50 | | R3219 ,R3221 | RS1/16S332J | | |
| | C3404 ,C3405 ,C3407 | CKSQYF103Z50 | | R3252 ,R3269 ,R3271 ,R3413 ,R3418 | RS1/16S333J | | |
| | C3205 ,C3207 -C3213 ,C3220 | CKSQYF104Z50 | | R3420 | RS1/16S361J | | |
| | C3244 -C3246 ,C3248 ,C3249 | CKSQYF104Z50 | | RESISTORS | | | |
| | C3253 -C3255 ,C3257 ,C3261 ,C3263 | CKSQYF104Z50 | | R3260 | RS1/16S362J | | |
| | C3265 ,C3266 ,C3272 ,C3275 | CKSQYF104Z50 | | R3205 ,R3212 ,R3225 ,R3416 ,R3421 | RS1/16S471J | | |
| | C3380 ,C3381 | CKSQYF104Z50 | | R3229 ,R3231 ,R3237 | RS1/16S472J | | |
| | C3369 | CKSQYF222Z50 | | R3242 ,R3244 ,R3293 ,R3376 ,R3377 | RS1/16S473J | | |
| | C3353 -C3355 ,C3359 | CKSQYF472Z50 | | R3234 | RS1/16S511J | | |
| | | | | RESISTORS | | | |
| | | | | R3356 | RS1/16S512J | | |
| | | | | R3287 ,R3366 ,R3368 | RS1/16S561J | | |
| | | | | R3364 ,R3370 | RS1/16S563J | | |
| | | | | R3277 ,R3415 | RS1/16S621J | | |
| | | | | R3233 ,R3307 ,R3354 ,R3361 ,R3362 | RS1/16S681J | | |
| | | | | RESISTORS | | | |
| | | | | R3383 ,R3410 | RS1/16S681J | | |
| | | | | R3268 ,R3270 | RS1/16S683J | | |
| | | | | R3246 | RS1/16S822J | | |

| Mark | No. | Description | Part No. |
|---------------|------------|---------------------------|-----------------|
| | R3261 | | RS1/16S911J |
| | R3404 | | RS2MMF1R0J |
| | VR3350 | | VRTS6VS222 |
| | VR3351 | | VRTS6VS471 |
| OTHERS | | | |
| | X3201 | CRYSTAL RESONATOR ASS1056 | |
| | X3202 | CERAMIC RESONATOR ASS1112 | |
| | CN3351 | PLUG 4P | KM250MA4 |
| | CN3353 | PLUG 6P | KM250MA6 |
| | CN3352 | PLUG 8P | KM250MA8 |

POWER SUPPLY MODULE

This module has no service part.

6. ADJUSTMENT

6.1 Adjustments of Parts

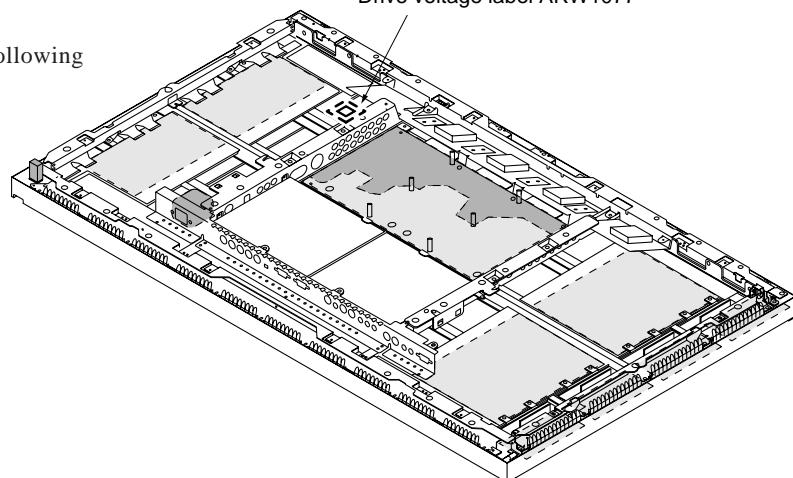
Note)

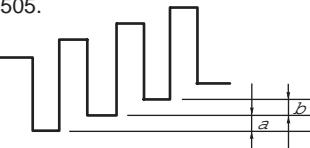
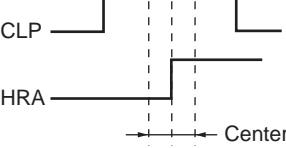
In these adjustments, assembly are indicated by the following symbols.

- A:**ANALOG VIDEO ASSEMBLY
- B:**PROGRESSIVE BLOCK
- J:**POWER SUPPLY MODULE
- G:**Y DRIVE (A) ASSEMBLY
- H:**Y DRIVE (B) ASSEMBLY

Note: Position for pasting the drive voltage label

Drive voltage label ARW1077



| Procedure | Adjusting Item | Input Signal | Adjusting Point | Adjusting Method |
|-----------|--|--|--------------------------|--|
| 1 | TINT | Chroma modulation ramp signal | VR9002 (A) | Adjust so that the output of Pin ② (R-Y signal) of CN9505 becomes minimum. |
| 2 | B-Y demodulation angle | EIA colour bar | VR9005 (A) | Adjust so that the amplitudes of a and b become equal at the output of Pin ④ of CN9505.  |
| 3 | Colour (B-Y) | EIA colour bar (Colour saturation 75% only) | VR9003 (A) | Adjust so that the output of Pin ④ (B-Y signal) of CN9505 becomes 0.525 Vp-p ±10 mV. |
| 4 | Colour (R-Y) | EIA colour bar (Colour saturation 75% only) | VR9004 (A) | Adjust so that the output of Pin ② of CN9505 becomes 0.525 Vp-p ±10 mV. |
| 5 | Deflection PLL adjustment | Any standard signal | L4715 (B) | Adjust so that the voltage of TP K4701 becomes 2.6 ± 0.1V. |
| 6 | Acquisition PLL adjustment | Any standard signal | L4706 (B) | Adjust the timing of the waveforms of Pin ③ (CLP) of CN4703 and TP K4702 (HRA) so that the rising edge of the HRA pulse are at the center of the CLP pulse.  |
| 7 | VCO free-run frequency for 910 fh clock | NTSC RAMP signal (with burst and chroma) | VR3350 (AP) | Set the input to "C.VIDEO", observe the voltage of Pin ⑦ of IC3352 (TP P3350), and adjust so that the voltage becomes 2.5V ± 0.1V using the digital voltmeter. |
| 8 | Y/C mode chroma signal output level | NTSC RAMP signal (S terminal signal with burst and chroma) | VR3351 (AP) | Set the input to "S.VIDEO", observe the Q3354 emitter using the oscilloscope, and adjust so that the level of the chroma signal becomes 400 mV ± 20 mV. |
| 9 | V _{H_A} , V _{H_B} voltage adjustment | 100% white signal | VR3302 (G) VR3301 (H) | <u>V_{H_A} (Scan IC power supply voltage A)</u> Check the drive voltage label value at the upper left side of the unit inside, and adjust RV3302 so that the voltage between Pin ① (V _{H_A}) and Pin ④ (GND H_A) of the check connector CN3303 becomes that value. <u>V_{H_B} (Scan IC power supply voltage B)</u> Check the drive voltage label value at the upper left side of the unit inside, and adjust VR3301 so that the voltage between Pin ① (V _{H_B}) and Pin ④ (GND H_B) of the check connector CN3304 becomes that value. |

| Procedure | Adjusting Item | Input Signal | Adjusting Point | Adjusting Method |
|-----------|--|-------------------|-----------------------------|--|
| 10 | Vsus, Vofs, Vadr, Vcsp, Vrn voltage adjustment | 100% white signal | RV7, RV5, RV3, RV4, RV9 (■) | <p><u>Vsus (Sustain power supply voltage)</u> Check the drive voltage label value at the upper left side of the unit inside, and adjust RV7 so that the value between TP CH24 (175V) and TP-CH25 (175 GND) becomes that value.</p> <p><u>Vofs (Offset power supply voltage)</u> Check the drive voltage label value at the upper left side of the unit inside, and adjust RV5 so that the value between Pin ① of CN3106 (150V) and Pin ④ of CN3105 (SUS, GND) inside the Y drive assembly becomes that value.</p> <p><u>Vadr (Address power supply voltage)</u> Check the drive voltage label value at the upper left side of the unit inside, and adjust RV3 so that the value between TP CH22 (30V) and TP-CH23 (30V GND) becomes that value.</p> <p><u>Vcsp (CSP power supply voltage)</u> Check the drive voltage label value at the upper left side of the unit inside, and adjust RV4 so that the potential between Pin ④ (CSP) and Pin ① (150V) of CN3106 of the Y drive assembly becomes that value.</p> <p><u>Vrn (Minus reset power supply voltage)</u> Check the drive voltage label value at the upper left side of the unit inside, and adjust RV9 so that the value between TP CH26 (190V) and TP-CH25 (175 GND) becomes that value.</p> |

If the U-COM assembly has been replaced, mount the former EEPROM (IC3704 24LC64 (I) SN) in the new U-COM assembly.

Note: CSP, GNDH_A, and GNDH_B differ from the GND potential in the unit. The GND potentials are also different each other.

- The adjustment tolerance of the drive voltage label is $\pm 0.5V$.
- The adjustments of the ANALOG VIDEO ASSEMBLY (step 1), (step 2), (step 3), (step 4), (step 5), and (step 6) is not necessary when replacing this assembly.
- Adjusting points which need not be adjusted again in the unit after replacing other assemblies are as follows.

SW power supply RV8 (+5V)
 RV6 (+3.3V)
 RV2 (+12V)
 RV1 (+5VSTB)

- If the above adjustment controls are rotated by mistake, adjust to the following values;

RV8 (+5V): Adjust the DC voltage between TP CH16 (5V) and TP CH19 (5V GND) to $5.0V \pm 0.1V$.
 RV6 (+3.3V): Adjust the DC voltage between TP CH17 (3.3V) and TP CH19 (5V GND) to $3.3V \pm 0.066V$.
 RV2 (+12V): Adjust the DC voltage between TP CH18 (12V) and TP CH19 (5V GND) to $12.0V \pm 0.24V$.
 RV1 (+5VSTB): Adjust the DC voltage between TP CH4 (5V) and TP CH19 (5V GND) to $5.0V \pm 0.1V$.

6.2 White Balance Adjustment

Set COLOUR to minimum and the other video settings to the standard setting in the following measurements.

1. Black level adjustment

- Input the RAMP signal.
- Monitor the output TP terminals of the RGB assembly (R:P5802, G:P5801, B:P5803), and adjust R,G,B LOW LIGHT so that the black level (0IRE) becomes 2.6V.

2. LOW LIGHT adjustment

Input the RAMP signal, and adjust R, G, B:LOW LIGHT so that the point which starts to light up becomes gray.

3. HIGH LIGHT adjustment

- Input the RAMP signal.
- Monitor the TP terminals of the RGB assembly (R:P5802, G:P5801, B:P5803), and adjust R,G,B HIGH LIGHT so that the white level (100IRE) becomes 4.4V.
- Input the white signal (80IRE).
- Adjust R,G,B HIGH LIGHT so that the screen becomes reddish white ($T=7200K$, dev=0.000uv).

4. Adjusting voltage check

Input the RAMP signal, monitor the TP terminals of the RGB assembly (R:P5802, G:P5801, B:P5803), and check that the black level (0IRE) is $2.6V \pm 0.1$. The white level (100IRE) value is not specified.

(Reference)

Adjustment values using the Minolta colour-difference meter CA-100
 80% window step 0dB

| | |
|-----------------------------------|--|
| [NTSC] [HDTV] | [RGB] |
| x=300 | x=290 |
| y=315 | y=315 |
| Y=58 ± 15cd/m ² | Y=35 ± 10cd/m ² (20% 2.5cd/m ²) |
| (20% 4.0cd/m ² (NTSC)) | 3.0cd/m ² (HDTV) |

Checking picture quality

1. Face colour check (Colour balance check)

After adjusting the white balance, check the face colour of figures in LD still pictures.

If the colour is not natural, adjust COLOUR and TINT and memorize the value.

2. Picture quality check

Set the sharpness to 120 for both NTSC and HDTV, and the detail setting to 70 for NTSC and 65 for HDTV, and check the picture quality.

Note: Adjust the white balance and check the picture quality in each NTSC screen mode (natural wide, zoom, etc.) and HDTV (MUSE).

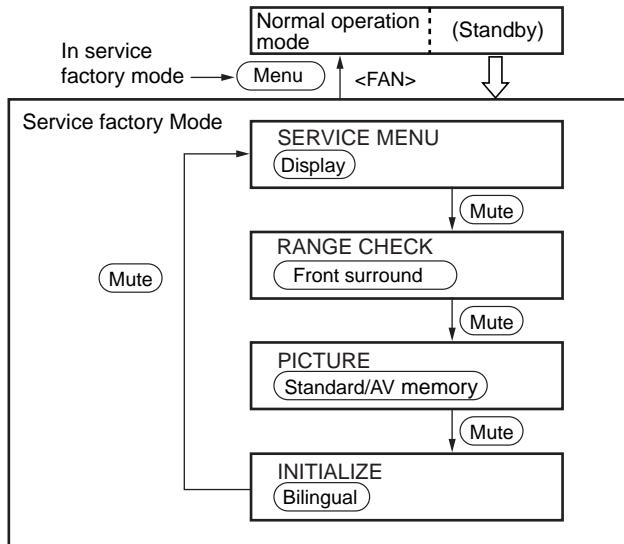
6.3 Service Factory Mode

This mode is used for checking the operations and setting the picture quality.

Perform the operations of the service factory mode using the remote control unit provided with the PDP-501MX (CU-PDP002: AXD1437) and the remote control unit provided with the PDP-501HD (CU-PDP001: AXD1432).

1. Entering the factory mode

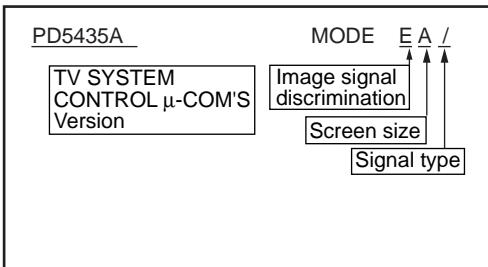
In the standby state, press the remote control keys **(Menu)**, **(Set)**, and **(Power)** in this order within 3 seconds. (See figure below ↓.) Or in the ON state, send the <FAY> command of RS-232C.



- When the service factory mode is set, the video and the screen will be reset.
- In the service factory mode, the **(Mute)** key functions to change the mode in the following order;
SERVICE MENU→RANGE CHK.→PICTURE→INIT.
The other keys **(Display)**, **(Front Surround)**, **(Standard/AV memory)**, and **(Bilingual)** function to switch the mode directly.
- In the factory mode, press the **(Menu)** key to set the normal operation mode.

2. SERVICE MENU (**Display Call** key)

Information mode



- Refer to the table on the next page for details on the video signal type and screen size.
- Signal state [/]:Composite, Y/C
[+]:Component (Colour difference signal)
[None]:RGB

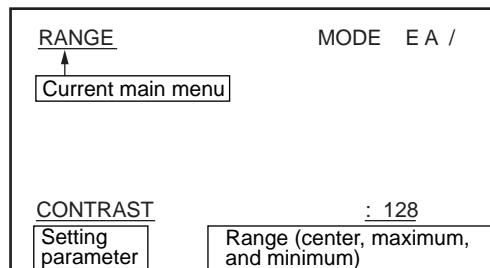
Note: The EA/ in the above example indicates that the signal input is the NTSC (15.7 kHz/60 Hz) and screen size is NATURAL WIDE.

3. RANGE CHECK

(**Front Surround** key)

Mode for checking the operations of the circuits.

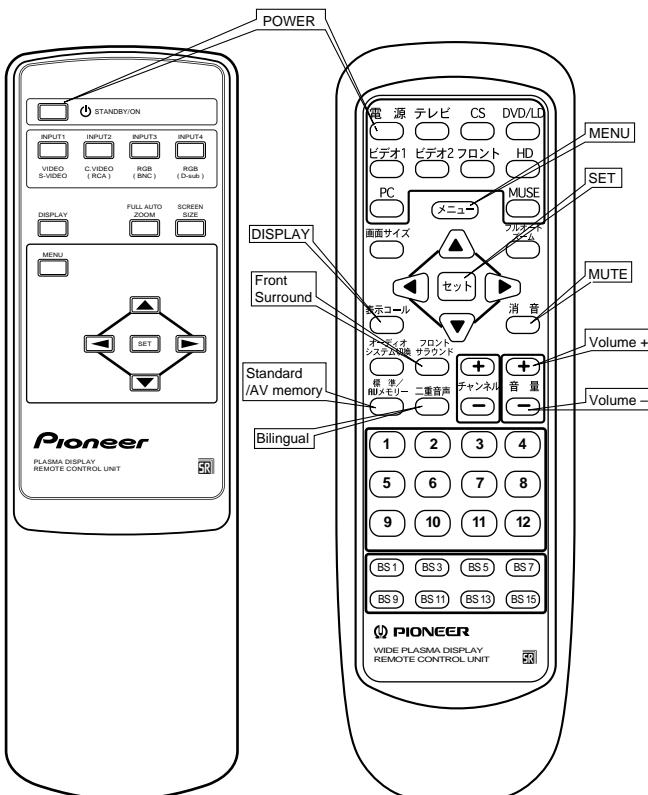
Each time this key is pressed, the mode changes from center, maximum, to minimum.



Keys

- ① COLOUR
Center→Maximum→Minimum (Each time key 1 is pressed)
- ② CONTRAST
Center→Maximum→Minimum (Each time key 2 is pressed)
- ③ SHARP (NESS)
Center→Maximum→Minimum (Each time key 3 is pressed)
- ④ CLK FRQ.
Center→Maximum→Minimum (Each time key 4 is pressed)

COLOUR and SHARP cannot be used for RGB (PC/VIDEO (RGB input)).



Remote control unit provided with the PDP-501MX (CU-PDP002: AXD1437)

Remote control unit provided with the PDP-501HD (CU-PDP001: AXD1432)

<Note> Do not press keys nor make changes in the factory mode other than the adjustment items indicated in the service manual.

List of Input Signals

(1) Table of video input signals (When setting INPUT 1,2/INPUT 3,4:VIDEO)

| Input signal | Horizontal frequency Fh (kHz) | Vertical frequency Fv (Hz) | Signal format | Screen size...On Screen Display | | | | |
|-----------------------------|-------------------------------|----------------------------|---------------|---------------------------------|------|------|-------------|--------------|
| | | | | 4:3NORMAL | FULL | ZOOM | CINEMA WIDE | NATURAL WIDE |
| NTSC, SDTV480i | 15.734 | 60.0 | S/video | E6/ | E7/ | E8/ | E9/ | EA/ |
| | | | Component | E6+ | E7+ | E8+ | E9+ | EA+ |
| | | | RGB (Note) | EB | EC | ED | EE | EF |
| Double-speed NTSC, SDTV480i | 31.5 | 60.0 | Component | F6+ | F7+ | F8+ | F9+ | FA+ |
| | | | RGB | F6 | F7 | F8 | F9 | FA |
| HDTV 720P | 45.0 | 60.0 | Component | | J2+ | | | |
| | | | RGB | | J2 | | | |
| HDTV1080i | 33.75 | 60.0 | Component | | G2+ | | | |
| | | | RGB | | G2 | | | |

Note: The NTSC-RGB signal can be used only when the key [10] STD-RGB (standard speed RGB enable setting) of "5. INITIALIZE MODE" is set to on. It is not displayed at the factory setting (OFF).

(2) List of PC input signals (When setting INPUT 3, 4:PC)

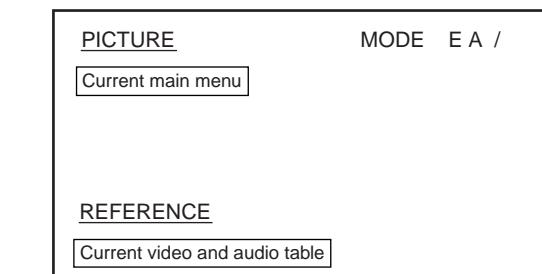
| Model | Input signal Dot x line | Horizontal Frequency Fh (kHz) (Note) | Vertical Frequency Fv (Hz) (Note) | Screen size On Screen Display | | | |
|-------------------------|-------------------------|--------------------------------------|-----------------------------------|------------------------------------|--------------------------|---------------------|------|
| | | | | ORIGINAL or ORIGINAL (TYPE) | 4:3 NORMAL or 4:3 (TYPE) | FULL or FULL (TYPE) | ZOOM |
| NEC PC-9800 series | 640*400 | 24.8 | 56.4 | B0 | B1 | B2 | |
| | | 31.5 | 70.1 | N0 | N1 | N2 | |
| | 640*480 | 31.5 | 59.9 | F0 | F1 | F2 | |
| | | 37.5 | 75.0 | R0 | | | |
| | 800*600 | 37.9 | 60.3 | I0 | I1 | I2 | |
| | | 46.9 | 75.0 | S0 | S1 | S2 | |
| IBM PC/AT compatibility | 1024*768 | 56.5 | 70.1 | O1 | | O2 | |
| | | 60.0 | 75.0 | U1 | | U2 | |
| | 1280*1024 | 64.0 | 60.0 | | L1 | L2 | L3 |
| | 640*400 | 31.5 | 70.1 | N0 | N1 | N2 | |
| | | 31.5 | 59.9 | F0 | F1 | F2 | |
| | 640*480 | 37.9 | 72.8 | P0 | | | |
| | | 37.5 | 75.0 | R0 | | | |
| | | 35.2 | 56.3 | C0 | C1 | C2 | |
| | | 37.9 | 60.3 | I0 | I1 | I2 | |
| Apple Macintosh | 800*600 | 48.1 | 72.2 | Q0 | Q1 | Q2 | |
| | | 46.9 | 75.0 | S0 | S1 | S2 | |
| | | 48.4 | 60.0 | K1 | | K2 | |
| | | 56.5 | 70.1 | O1 | | O2 | |
| | 1024*768 | 60.0 | 75.0 | U1 | | U2 | |
| | | 35.5 | 87.0 | 21 | | 22 | |
| | 1280*1024 | 64.0 | 60.0 | | L1 | L2 | L3 |
| Exclusive Videocard | 640*480 | 35.0 | 66.7 | M0 | M1 | M2 | |
| | 832*624 | 49.7 | 74.6 | T0 | M2 | T3 | |
| | 1024*768 | 60.2 | 74.9 | U1 | | U2 | |
| | 1152*870 | 68.7 | 75.1 | | V1 | V2 | |

Note: The input signal frequency displayed when the remote control key DISPLAY is pressed is the typical values of each signal mode, and may differ from the actual input signal frequency.

4. PICTURE (Standard/AV Memory) Key)

Mode for selecting the video tables to be adjusted.

(1) Menu in mode



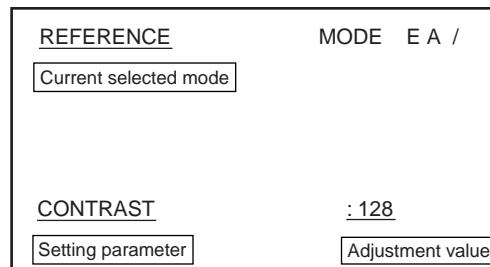
Keys

| | |
|------------------|--------------------------------|
| [1] REFERENCE | Colour temperature offset |
| [5] COLOUR TEMP1 | Not necessary to readjust |
| [6] COLOUR TEMP2 | Fix at the factory setting |
| [7] COLOUR TEMP3 | |
| [8] COLOUR TEMP4 | |
| [9] GAME | |
| [10] LIVING | Offset memorized for selection |
| [11] CINEMA | Not necessary to readjust |
| [12] SPORTS | Fix at the factory setting |

Keys [2] to [12] cannot be used when INPUT SETTING is set to PC.

→ **Set** key
Sets the mode and moves to the lower level.

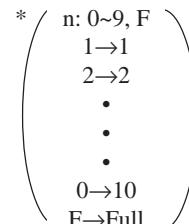
(2) Parameter adjustment (When REFERENCE is selected)



| Keys | Commands |
|---------------------|---|
| [1] CONTRAST | (000 to 255) <CNT> |
| [2] BRIGHT (NESS) | (000 to 255) |
| [3] COLOUR | (000 to 127) <COL> |
| [4] TINT | (000 to 127) <TNT> |
| [5] SHARP (NESS) | (000 to 255) <SHP> |
| [6] DETAIL | (000 to 255) <DTL> |
| [7] R HIGH | (000 to 255) <RHI> |
| [8] G HIGH | (000 to 255) <GHI> |
| [9] B HIGH | (000 to 255) <BHI> |
| [10] R LOW | (000 to 255) <RLW> |
| [11] G LOW | (000 to 255) <GLW> |
| [12] B LOW | (000 to 255) <BLW> |
| (BS5) B-Y GAIN | (000 to 063) Not necessary to readjust |
| (BS9) BLK LEV START | (000 to 015) Fix at the factory setting |
| (BS11) BLK LEV GAIN | (000 to 015) |

Note: Do not change the factory settings for (BS1) and (BS3). If changed, the panel may be damaged.

- **Volume +** Increases the value of the parameter selected for adjustment <UPn> *
- Volume -** Decreases the value of the parameter selected for adjustment <DWn> *
- Set** Memorizes the adjusted value and moves to a higher level



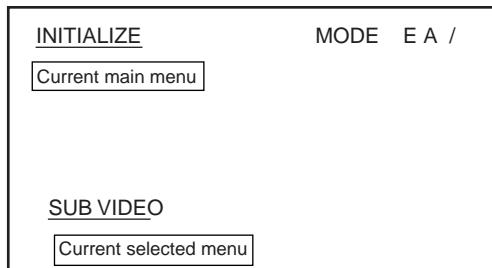
<NOTE>

When messages not indicated in the service manual are displayed on the screen, turn OFF the power promptly. And exit the service factory mode.

Changing the data not indicated in the service manual unintentionally may result in the damage of the unit.

5. INITIALIZE (Bilingual key)

Mode for changing and checking the initial settings.
(1) Menu in mode



Keys

- [1] SUB VIDEO (Set using the **SET** key.)
- [2] MIRROR_MODE (Inverted Picture mode)
OFF/XY cyclic (OFF at the factory setting) <MMN>/<MMZ>
- [3] FULL MASK
ON/OFF-cyclic (OFF at the factory setting) <FMY>/<FMN>
- [5] HOUR METER (Displays the current hours meter) <HMD>
- [6] BAUD RATE (Sets the RS-232C communication speed with PC)
<BRm> *
1200 to 19200 cyclic (4800) at the factory setting
- [7] EEPROM INIT. (For manufacturing line only)
- [8] MASK CONTROL (Automatic mask position change setting)
ON/OFF cyclic (ON at the factory setting) <MCY>/<MCN>
- [10] STD-RGB (Standard speed (15.734kHz) RGB enable setting)
ON/OFF (OFF at the factory setting) <NRY>/<NRN>
- [11] INTE. MODE (Integrator mode setting)
FREE, ON, LOCK cyclic (FREE at the factory setting)
(Menu OFF) <IMF>/<IMY>/<IMN>
- (BS1) FINAL SETUP (factory setting) Set using the **Set** key
(Recovers the initial setting) Refer to next page. <FST>
- (BS3) IPQ ADJ (Progressive conversion)
Not necessary to readjust parameter adjustment
- Fix at the factory setting

Commands

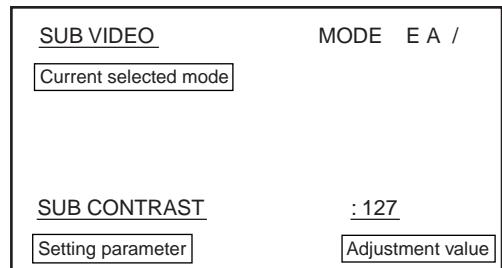
(Set)([1],(BS1))

Sets the mode and moves to the lower level.

- Note: 1) Do not change the factory settings for the modes of keys [9]. If changed, the panel may be damaged.
2) Be sure to turn the key [3] FULL MASK off when the power is turned off.

(2) Parameter adjustments (SUB VIDEO)

Common picture quality adjustment for all input signal modes.



Keys

| | | |
|----------|--|--|
| [1] | SUB CONTRAST (000 to 127) | Not necessary to readjust Fix at the factory setting |
| [2] | ACL START (000 to 015) | |
| [3] | ACL GAIN (000 to 015) | |
| [9] | ACL SW ACL SW ON/OFF cyclic | |
| [10] | VAP GAIN (000 to 007) | |
| [11] | VAP INV (000 to 031) | |
| (BS3) | R SIDE LEV (000 to 255) | |
| (BS5) | G SIDE LEV (000 to 255) | |
| (BS7) | B SIDE LEV (000 to 255) | |
| (BS11) | R FULL LEV (000/255) | |
| (BS13) | G FULL LEV (000/255) | |
| (BS15) | B FULL LEV (000/255) | |
| Volume + | Increases the value of the parameter selected for adjustment | |
| Volume - | Decreases the value of the parameter selected for adjustment | |
| Set | Memorizes the adjusted value and moves to a higher level | |

Note: Do not change the factory settings for keys [6] and [8]. If changed, the panel may be damaged.

$$* \left(\begin{array}{l} m: 1 \sim 5 \\ 1 \rightarrow 1200 \text{bps} \\ 2 \rightarrow 2400 \text{bps} \\ 3 \rightarrow 4800 \text{bps} \\ 4 \rightarrow 9600 \text{bps} \\ 5 \rightarrow 19200 \text{bps} \end{array} \right)$$

PDP-501MX, PDP-V501X

(3) Details of FINAL SETUP

| Item | Initial Setting | Remarks | Commands |
|-------------------------|--|--|-------------------------|
| Input function | INPUT1 | | <IN1~4> |
| FULL AUTO ZOOM | OFF | Common for all input functions | <AZY> / <AZN> |
| Screen size | NATURAL WIDE PC① 4:3 NORMAL (Including TYPE) PC② ORIGINAL (Including TYPE) | VIDEO mode D,E,L,V mode B,C,F,I,K,M,N,O,P,Q,R,S,T,U,X,Y,Z,2 | <SM0~5> note 1 |
| V.POSITION | 0 | Input functions | <UPS> |
| KEY LOCK | UNLOCK | | <KLY> / <KLN> |
| PICTURE | Center value for all adjustment items | | note 2 |
| SCREEN | Center value for all adjustment items | | note 3 |
| V MEMORY (RECALL) | STANDARD STANDARD STANDARD | Input functions (VIDEO) Input functions (VIDEO-RGB) Input functions (PC-RGB) | |
| V MEMORY (MEMORY) | GAME (MEMORY 1) LIVING (MEMORY 2) CINEMA (MEMORY 3) SPORTS (MEMORY 4) USER A to D (STANDARD for all memory contents) USER A to D (STANDARD for all memory contents) | VIDEO RGB PC | |
| AUTO POWER OFF | OFF | Common for all input functions | <APY> / <APN> |
| 3D Y/C MODE | STILL | | <YCS> / <YCM> |
| INPUT SETTING SIGNAL | COMPONENT 2(SMPTE170M) PC (PDP-V501X) VIDEO (PDP-501MX/KUC) RGB (Fixed) COMPONENT 1 PC RGB (Fixed) | INPUT2 INPUT3 INPUT4 | |
| CLAMP | MODE1 | For each setting-INPUT 3, 4 | <CL1> / <CL2> |
| ABL | ON | For each setting-INPUT 3, 4 PC | <ABY> / <ABN> |
| MP MODE | ON | For each setting-INPUT 3, 4 PC | <MPY> / <MPN> |
| PICTURE | (Adjustment values for all adjustment items) | Memory contents cleared for PC | |
| WHITE BALANCE | (Adjustment values for all adjustment items) | Memory contents cleared for PC | note 2 |
| SCREEN | Center value for all adjustment items | | note 3 |
| COLOUR MODE | 1 | | <CM1> / <CM2> |
| BAUD RATE | 4800BPS | | <BR1~5> |
| HOUR METER | — | | |
| MIRROR MODE | OFF | Common for all input functions | <MMN> / <MMZ> |
| STD-RGB | OFF | Common for input functions | <NRY> / <NRN> |
| SIDE MASK | R LEVEL: 56 G LEVEL: 56 B LEVEL: 112 | | <RSL> <GSL> <BSL> |
| FULL MASK | OFF | | <FMY> / <FMN> |
| MASK CONTROL | ON | | <MCY> / <MCN> |
| INTE. MODE | FREE (PDP-V501X) LOCK (PDP-501MX/KUC) | | <IMF> / <IMY> / <IMN> |
| ACL SW | ON | | |
| CTI | ON | | |
| VNR | 3 | | |
| ID No. | — | | <IDS> / <IDC> |
| OSD | ON | | <DIY> / <DIN> |

note 1

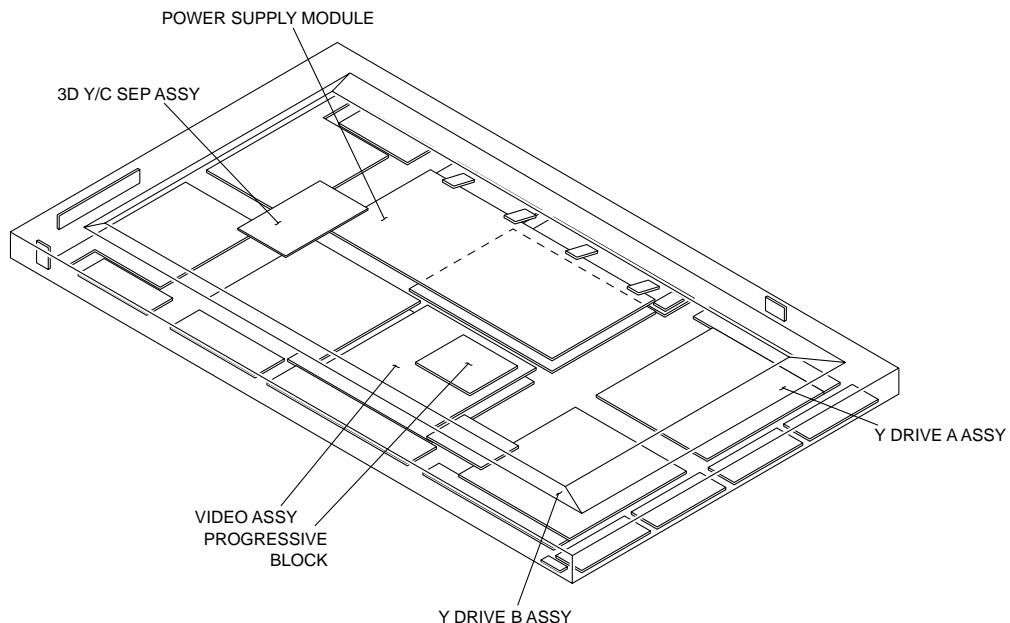
<SM0>: Original
<SM1>: 4:3 Normal
<SM2>: Full
<SM3>: Zoom
<SM4>: Cinema Wide
<SM5>: Natural Wide

note 2

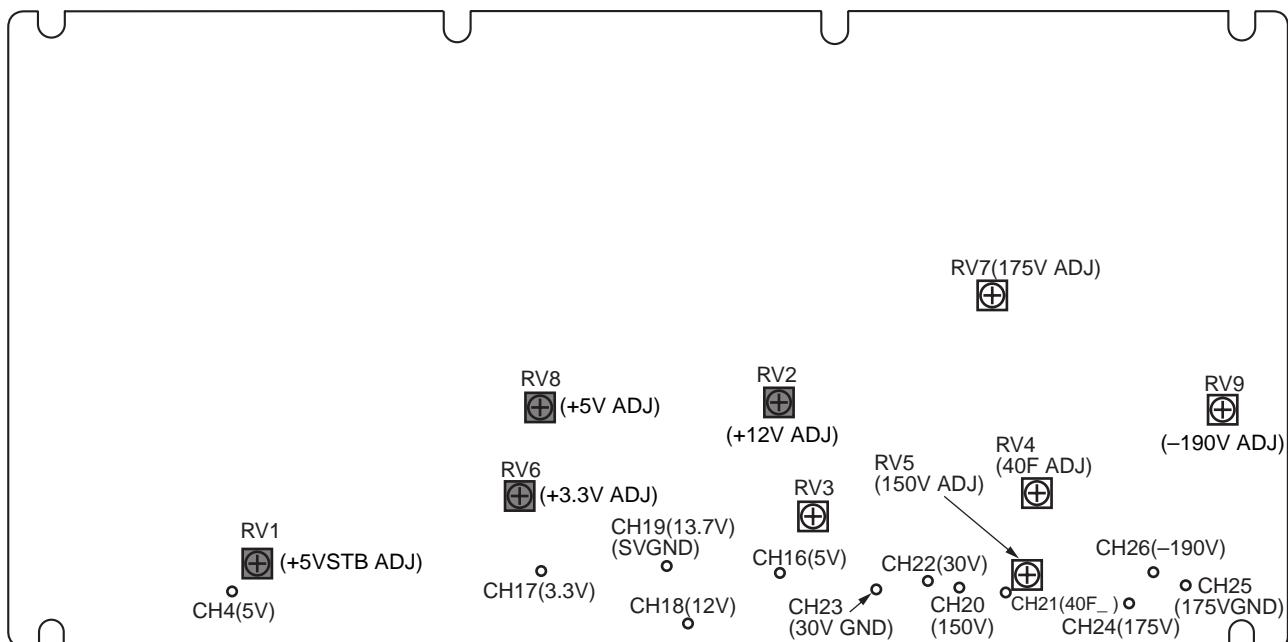
<CNT>: Contrast <RHI>: R High
<COL>: Color <RLW>: R Low
<TNT>: Tint <GHI>: G High
<SHP>: Sharp <GLW>: G Low
<BRT>: Bright <BHI>: B High
<DTL>: Detail <BLW>: B Low

note 3

<VPS>: V. Pos 1
<HPS>: H. Pos 1
<CFR>: CLK FRQ
<CPH>: CLK PHS

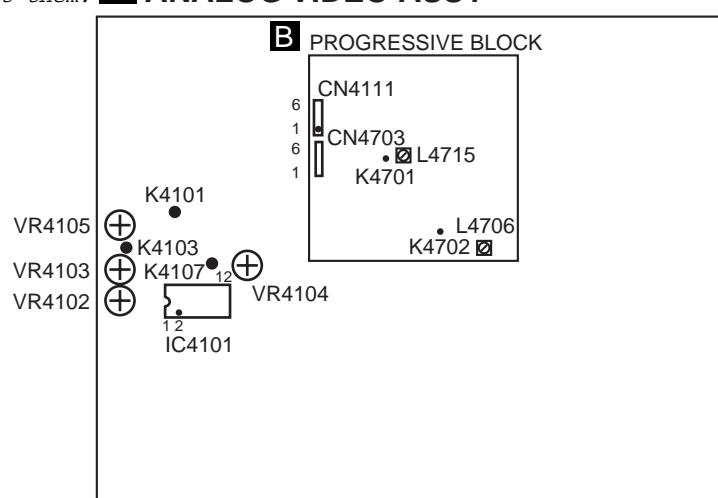


J POWER SUPPLY MODULE

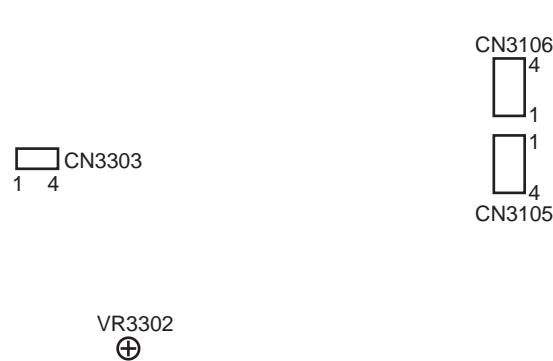


Note: Shaded VR, RV1, RV2, RV6, and RV8 have already been adjusted. Do not adjust them.

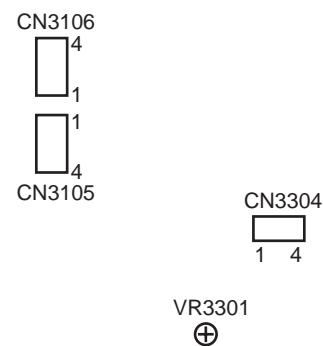
A ANALOG VIDEO ASSY



G Y DRIVE A ASSY



H Y DRIVE B ASSY



7. GENERAL INFORMATION

7.1 IC

7.1.1 LIST OF IC

The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

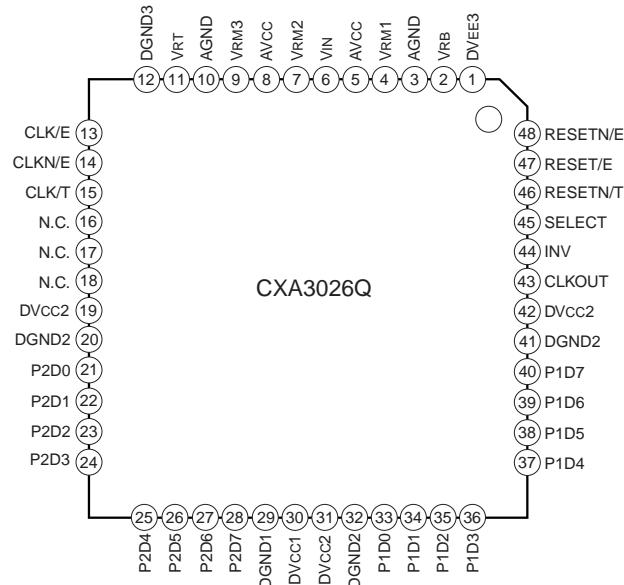
CXA3026Q, CXA3106Q, PD4891B, PD4892A, PD4893B, PD4894A, PD5447A, PDY038B, UPD481850GF, HD64F3048F16, PDT042A, STK795-120A, PE1006A, PD5435A9, 24LC64(I)SN, AN5390FBS, AN5395FBP, BA7657F, M52337SP, PDY052A, PE1007A, CD74HCT4046AM, SAA4990H, SAA7165WP, TDA8755T, PE6001A9, SAA4952WP, TMS4C2973-26, SN755862PJA

■ CXA3026Q

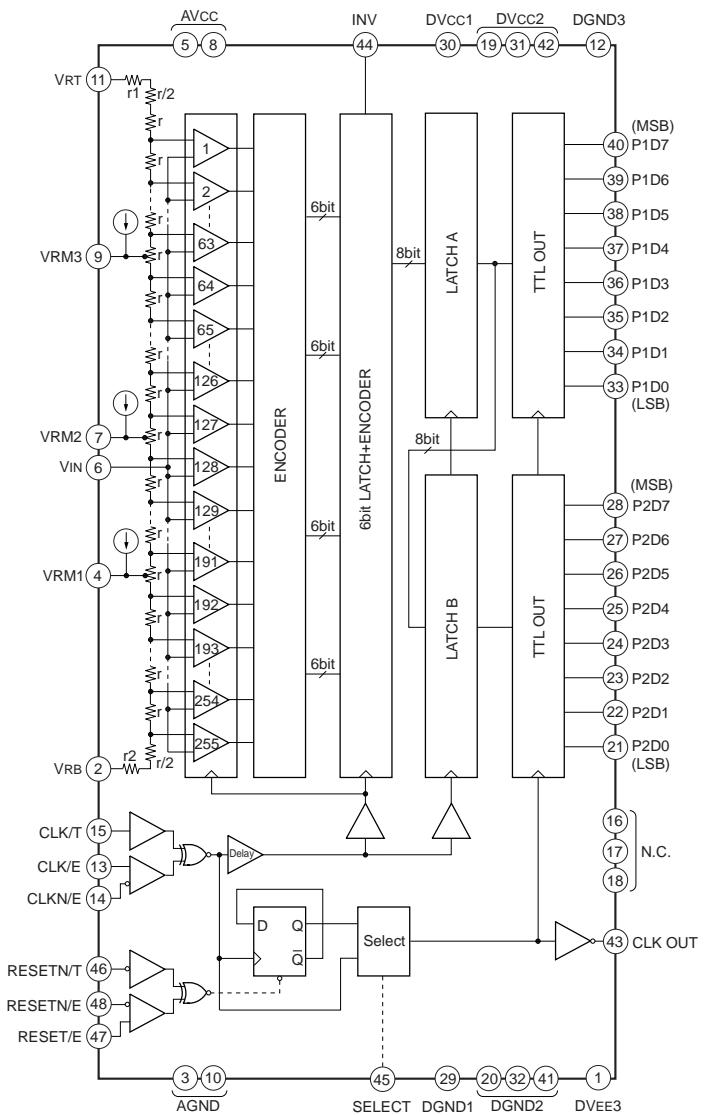
(DIGITAL VIDEO ASSY: IC1131)

A/D CONVERTOR

● Pin Assignment



● Block Diagram



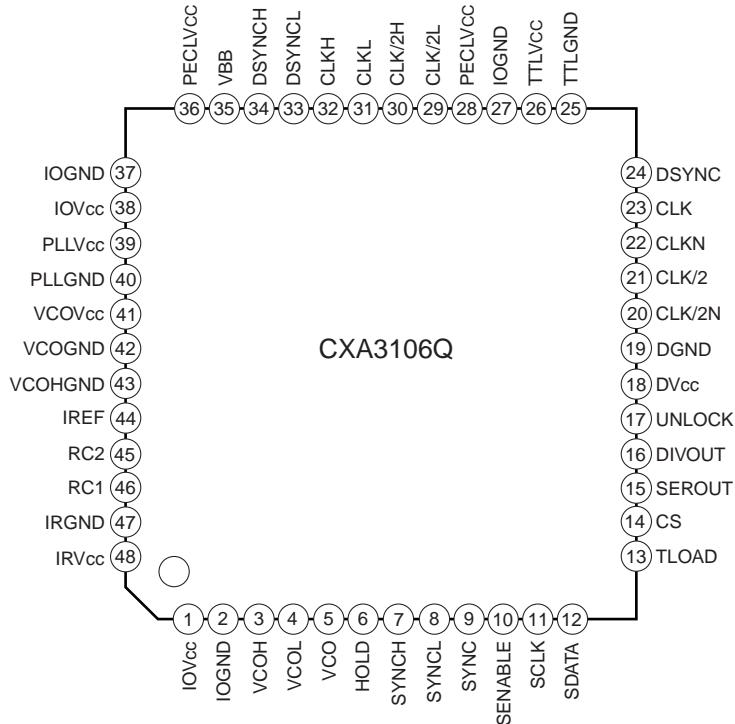
PDP-501MX, PDP-V501X

CXA3106Q

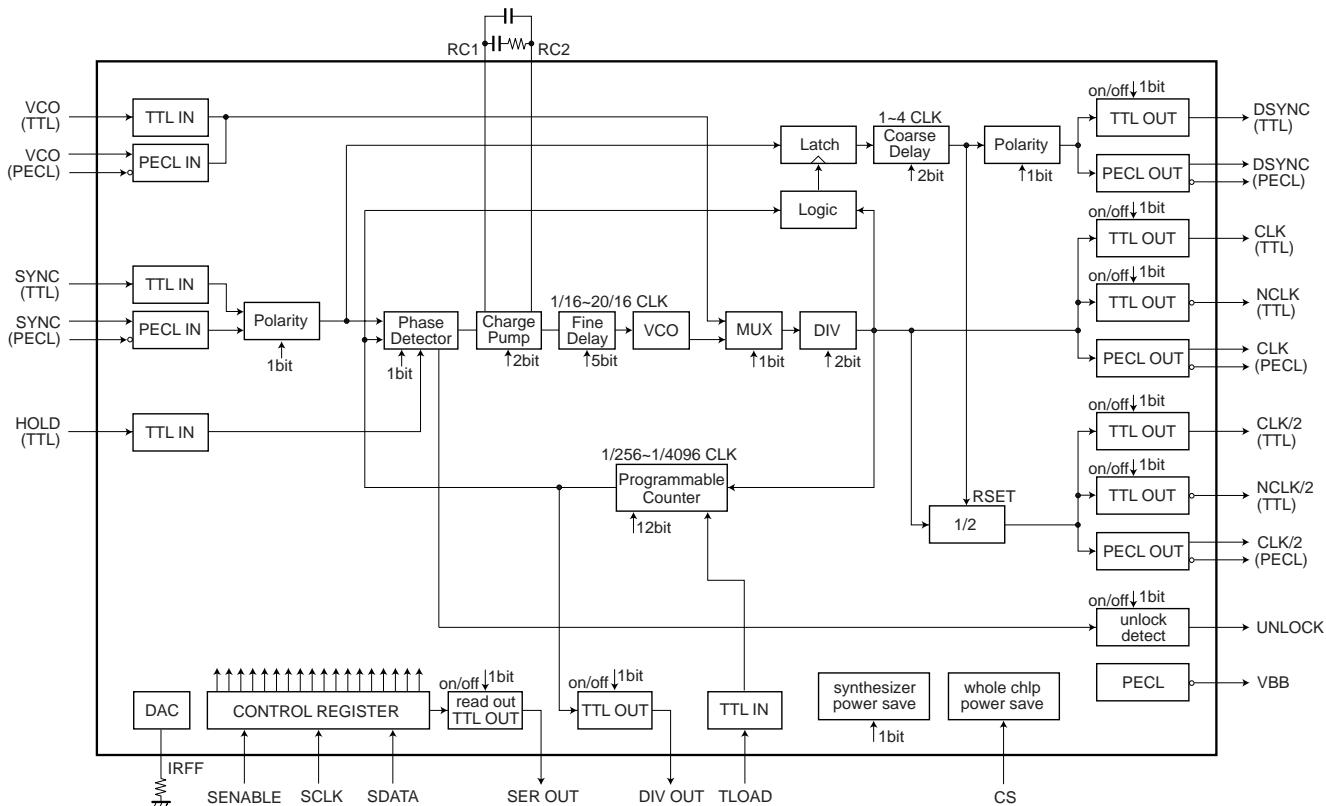
(DIGITAL VIDEO ASSY: IC1242)

PLL IC

● Pin Assignment



● Block Diagram



■ PD4891B

(DIGITAL VIDEO ASSY: IC1301)

GATE ARRAY

● Pin Function

| Pin No. | PinName | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 1 | GND | - | - | 51 | GND | - | - |
| 2 | GND | - | - | 52 | GND | - | - |
| 3 | N.C. | - | - | 53 | VDD | - | - |
| 4 | N.C. | - | - | 54 | FIELD | O | FO09 |
| 5 | HWRB | I | FIV1 | 55 | V_ACTB | O | FO09 |
| 6 | UA12 | I | FIV1 | 56 | V | O | FO09 |
| 7 | UA11 | I | FIV1 | 57 | H | O | FO09 |
| 8 | UA10 | I | FIV1 | 58 | VLD_B | O | FO09 |
| 9 | UA9 | I | FIV1 | 59 | VLD_A | O | FO09 |
| 10 | UA8 | I | FIV1 | 60 | BB0 | O | FO09 |
| 11 | UA7 | I | FIV1 | 61 | BB1 | O | FO09 |
| 12 | UA6 | I | FIV1 | 62 | BB2 | O | FO09 |
| 13 | GND | - | - | 63 | BB3 | O | FO09 |
| 14 | UA5 | I | FIV1 | 64 | GND | - | - |
| 15 | UA4 | I | FIV1 | 65 | BB4 | O | FO09 |
| 16 | UA3 | I | FIV1 | 66 | BB5 | O | FO09 |
| 17 | UA2 | I | FIV1 | 67 | BB6 | O | FO09 |
| 18 | UA1 | I | FIV1 | 68 | BB7 | O | FO09 |
| 19 | UA0 | I | FIV1 | 69 | BA0 | O | FO09 |
| 20 | GND | - | - | 70 | BA1 | O | FO09 |
| 21 | UD15 | B | BX01 | 71 | BA2 | O | FO09 |
| 22 | UD14 | B | BX01 | 72 | BA3 | O | FO09 |
| 23 | UD13 | B | BX01 | 73 | BA4 | O | FO09 |
| 24 | UD12 | B | BX01 | 74 | BA5 | O | FO09 |
| 25 | UD11 | B | BX01 | 75 | BA6 | O | FO09 |
| 26 | GND | - | - | 76 | BA7 | O | FO09 |
| 27 | VDD | - | - | 77 | GB0 | O | FO09 |
| 28 | UD10 | B | BX01 | 78 | VDD | - | - |
| 29 | UD9 | B | BX01 | 79 | GND | - | - |
| 30 | UD8 | B | BX01 | 80 | GB1 | O | FO09 |
| 31 | UD7 | B | BX01 | 81 | GB2 | O | FO09 |
| 32 | UD6 | B | BX01 | 82 | GB3 | O | FO09 |
| 33 | GND | - | - | 83 | GB4 | O | FO09 |
| 34 | UD5 | B | BX01 | 84 | GB5 | O | FO09 |
| 35 | UD4 | B | BX01 | 85 | GB6 | O | FO09 |
| 36 | UD3 | B | BX01 | 86 | GB7 | O | FO09 |
| 37 | UD2 | B | BX01 | 87 | GA0 | O | FO09 |
| 38 | UD1 | B | BX01 | 88 | GA1 | O | FO09 |
| 39 | UD0 | B | BX01 | 89 | GA2 | O | FO09 |
| 40 | VDD | - | - | 90 | GA3 | O | FO09 |
| 41 | RESETB | I | FIF1 | 91 | GND | - | - |
| 42 | GND | - | - | 92 | GA4 | O | FO09 |
| 43 | PRG_INTB | I | FDV1 | 93 | GA5 | O | FO09 |
| 44 | LN_DTB | I | FDV1 | 94 | GA6 | O | FO09 |
| 45 | SELB0 | I | FIV1 | 95 | GA7 | O | FO09 |
| 46 | CSB4 | I | FIV1 | 96 | RB0 | O | FO09 |
| 47 | CSB5 | I | FIV1 | 97 | RB1 | O | FO09 |
| 48 | W_NB | I | FDV1 | 98 | RB2 | O | FO09 |
| 49 | GND | - | - | 99 | RB3 | O | FO09 |
| 50 | CLK3 | I | FI01 | 100 | RB4 | O | FO09 |

Note: I/O B: I/O Buffer (TTL Low Noise (5V))

PDP-501MX, PDP-V501X

| Pin No. | Pin Name | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 101 | RB5 | O | FO09 | 155 | GND | - | - |
| 102 | RB6 | O | FO09 | 156 | GND | - | - |
| 103 | RB7 | O | FO09 | 157 | VDD | - | - |
| 104 | VDD | - | - | 158 | BEI7 | I | FDV1 |
| 105 | GND | - | - | 159 | BEI6 | I | FDV1 |
| 106 | GND | - | - | 160 | BEI5 | I | FDV1 |
| 107 | RA0 | O | FO09 | 161 | BEI4 | I | FDV1 |
| 108 | RA1 | O | FO09 | 162 | BEI3 | I | FDV1 |
| 109 | RA2 | O | FO09 | 163 | BEI2 | I | FDV1 |
| 110 | RA3 | O | FO09 | 164 | BEI1 | I | FDV1 |
| 111 | RA4 | O | FO09 | 165 | BEI0 | I | FDV1 |
| 112 | RA5 | O | FO09 | 166 | BOI7 | I | FIV1 |
| 113 | RA6 | O | FO09 | 167 | BOI6 | I | FIV1 |
| 114 | RA7 | O | FO09 | 168 | BOI5 | I | FIV1 |
| 115 | VDD | - | - | 169 | BOI4 | I | FIV1 |
| 116 | N.C. | - | - | 170 | BOI3 | I | FIV1 |
| 117 | ADRSTB | O | FO04 | 171 | BOI2 | I | FIV1 |
| 118 | GND | - | - | 172 | BOI1 | I | FIV1 |
| 119 | REI7 | I | FDV1 | 173 | BOI0 | I | FIV1 |
| 120 | REI6 | I | FDV1 | 174 | GND | - | - |
| 121 | REI5 | I | FDV1 | 175 | HDI | I | FIV1 |
| 122 | REI4 | I | FDV1 | 176 | VDI | I | FIV1 |
| 123 | REI3 | I | FDV1 | 177 | FLDI | I | FIV1 |
| 124 | REI2 | I | FDV1 | 178 | GND | - | - |
| 125 | REI1 | I | FDV1 | 179 | S_DB | I | FI01 |
| 126 | REI0 | I | FDV1 | 180 | GND | - | - |
| 127 | ROI7 | I | FIV1 | 181 | VCLK2 | I | FIV1 |
| 128 | ROI6 | I | FIV1 | 182 | GND | - | - |
| 129 | ROI5 | I | FIV1 | 183 | VDD | - | - |
| 130 | VDD | - | - | 184 | DRI | I | FDV1 |
| 131 | GND | - | - | 185 | DBI | I | FDV1 |
| 132 | ROI4 | I | FIV1 | 186 | DGI | I | FDV1 |
| 133 | ROI3 | I | FIV1 | 187 | DBLKI | I | FDV1 |
| 134 | ROI2 | I | FIV1 | 188 | HRET | O | FV04 |
| 135 | ROI1 | I | FIV1 | 189 | VRET | O | FV04 |
| 136 | ROI0 | I | FIV1 | 190 | BUNRI | I | FIU1 |
| 137 | GEI7 | I | FDV1 | 191 | N.C. | - | - |
| 138 | GEI6 | I | FDV1 | 192 | N.C. | - | - |
| 139 | GEI5 | I | FDV1 | 193 | N.C. | - | - |
| 140 | GEI4 | I | FDV1 | 194 | N.C. | - | - |
| 141 | GEI3 | I | FDV1 | 195 | N.C. | - | - |
| 142 | GEI2 | I | FDV1 | 196 | TMB2 | I | FIU1 |
| 143 | GEI1 | I | FDV1 | 197 | TMB1 | I | FIU1 |
| 144 | GEI0 | I | FDV1 | 198 | TMB0 | I | FIU1 |
| 145 | GOI7 | I | FIV1 | 199 | GND | - | - |
| 146 | GOI6 | I | FIV1 | 200 | TO7 | O | FO09 |
| 147 | GOI5 | I | FIV1 | 201 | TO6 | O | FO09 |
| 148 | GOI4 | I | FIV1 | 202 | TO5 | O | FO09 |
| 149 | GOI3 | I | FIV1 | 203 | TO4 | O | FO09 |
| 150 | GOI2 | I | FIV1 | 204 | TO3 | O | FO09 |
| 151 | GOI1 | I | FIV1 | 205 | TO2 | O | FO09 |
| 152 | GOI0 | I | FIV1 | 206 | TO1 | O | FO09 |
| 153 | GND | - | - | 207 | TO0 | O | FO09 |
| 154 | VCLK | I | FIV1 | 208 | VDD | - | - |

K1264 (FDLI) Output (Input Field Discrimination Signal)

| No. | Input Signal | Output Signal State (177 Pin Input) |
|-----|---------------------|-------------------------------------|
| 1 | NTSC (double speed) | Fixed at H |
| 2 | HDTV | ODD:L EVEN:H |
| 3 | PC | Fixed at L |

■ PD4892A

(DIGITAL VIDEO ASSY: IC1351)

GATE ARRAY

● Pin Function

| Pin No. | Pin Name | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 1 | GND | - | - | 51 | RESETB | I | FIF1 |
| 2 | GND | - | - | 52 | PRG_INTB | I | FDV1 |
| 3 | EVLD_AI | I | FUI1 | 53 | LN_DTB | I | FDV1 |
| 4 | EVLD_BI | I | FUI1 | 54 | SEL1B | I | FIV1 |
| 5 | EHDI | I | FUI1 | 55 | CS4B | I | FIV1 |
| 6 | EVDI | I | FUI1 | 56 | TEST | I | FIU1 |
| 7 | EV_ACTBI | I | FUI1 | 57 | GND | - | - |
| 8 | EFLDI | I | FUI1 | 58 | CLK3 | I | FI01 |
| 9 | TMB7 | I | FUI1 | 59 | GND | - | - |
| 10 | TMB6 | I | FUI1 | 60 | GND | - | - |
| 11 | TMB5 | I | FUI1 | 61 | VDD | - | - |
| 12 | GND | - | - | 62 | BB0 | O | FO09 |
| 13 | APLP | O | FV09 | 63 | BB1 | O | FO09 |
| 14 | RDB | I | FIV1 | 64 | BB2 | O | FO09 |
| 15 | HWRB | I | FIV1 | 65 | BB3 | O | FO09 |
| 16 | UA12 | I | FIV1 | 66 | BB4 | O | FO09 |
| 17 | UA11 | I | FIV1 | 67 | BB5 | O | FO09 |
| 18 | UA10 | I | FIV1 | 68 | BB6 | O | FO09 |
| 19 | UA9 | I | FIV1 | 69 | BB7 | O | FO09 |
| 20 | GND | - | - | 70 | BB8 | O | FO09 |
| 21 | VDD | - | - | 71 | BB9 | O | FO09 |
| 22 | UA8 | I | FIV1 | 72 | BB10 | O | FO09 |
| 23 | UA7 | I | FIV1 | 73 | BB11 | O | FO09 |
| 24 | UA6 | I | FIV1 | 74 | BA0 | O | FO09 |
| 25 | UA5 | I | FIV1 | 75 | BA1 | O | FO09 |
| 26 | UA4 | I | FIV1 | 76 | BA2 | O | FO09 |
| 27 | UA3 | I | FIV1 | 77 | BA3 | O | FO09 |
| 28 | UA2 | I | FIV1 | 78 | BA4 | O | FO09 |
| 29 | UA1 | I | FIV1 | 79 | BA5 | O | FO09 |
| 30 | UA0 | I | FIV1 | 80 | GND | - | - |
| 31 | GND | - | - | 81 | VDD | - | - |
| 32 | UD15 | B | BX01 | 82 | BA6 | O | FO09 |
| 33 | UD14 | B | BX01 | 83 | BA7 | O | FO09 |
| 34 | UD13 | B | BX01 | 84 | BA8 | O | FO09 |
| 35 | UD12 | B | BX01 | 85 | BA9 | O | FO09 |
| 36 | UD11 | B | BX01 | 86 | BA10 | O | FO09 |
| 37 | UD10 | B | BX01 | 87 | BA11 | O | FO09 |
| 38 | UD9 | B | BX01 | 88 | FIELD | O | FO04 |
| 39 | UD8 | B | BX01 | 89 | V_ACTB | O | FO04 |
| 40 | VDD | - | - | 90 | V | O | FO04 |
| 41 | GND | - | - | 91 | GND | - | - |
| 42 | UD7 | B | BX01 | 92 | H | O | FO04 |
| 43 | UD6 | B | BX01 | 93 | VLD_B | O | FO04 |
| 44 | UD5 | B | BX01 | 94 | VLD_A | O | FO04 |
| 45 | UD4 | B | BX01 | 95 | GB0 | O | FO09 |
| 46 | UD3 | B | BX01 | 96 | GB1 | O | FO09 |
| 47 | UD2 | B | BX01 | 97 | GB2 | O | FO09 |
| 48 | UD1 | B | BX01 | 98 | GB3 | O | FO09 |
| 49 | UD0 | B | BX01 | 99 | GB4 | O | FO09 |
| 50 | GND | - | - | 100 | VDD | - | - |

PDP-501MX, PDP-V501X

| Pin No. | Pin Name | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 101 | GND | - | - | 155 | TOB4 | O | FO09 |
| 102 | GB5 | O | FO09 | 156 | TOB5 | O | FO09 |
| 103 | GB6 | O | FO09 | 157 | TOB6 | O | FO09 |
| 104 | GB7 | O | FO09 | 158 | TOB7 | O | FO09 |
| 105 | GB8 | O | FO09 | 159 | TOB8 | O | FO09 |
| 106 | GB9 | O | FO09 | 160 | VDD | - | - |
| 107 | GB10 | O | FO09 | 161 | GND | - | - |
| 108 | GB11 | O | FO09 | 162 | TOA0 | O | FO09 |
| 109 | GA0 | O | FO09 | 163 | TOA1 | O | FO09 |
| 110 | GA1 | O | FO09 | 164 | TOA2 | O | FO09 |
| 111 | GA2 | O | FO09 | 165 | TOA3 | O | FO09 |
| 112 | GA3 | O | FO09 | 166 | TOA4 | O | FO09 |
| 113 | GA4 | O | FO09 | 167 | TOA5 | O | FO09 |
| 114 | GA5 | O | FO09 | 168 | TOA6 | O | FO09 |
| 115 | GA6 | O | FO09 | 169 | TOA7 | O | FO09 |
| 116 | GA7 | O | FO09 | 170 | TOA8 | O | FO09 |
| 117 | GA8 | O | FO09 | 171 | GND | - | - |
| 118 | GA9 | O | FO09 | 172 | BUNRI | I | FIU1 |
| 119 | GA10 | O | FO09 | 173 | TMB0 | I | FIU1 |
| 120 | VDD | - | - | 174 | TMB1 | I | FIU1 |
| 121 | GND | - | - | 175 | TMB2 | I | FIU1 |
| 122 | GND | - | - | 176 | TMB3 | I | FIU1 |
| 123 | GA11 | O | FO09 | 177 | TMB4 | I | FIU1 |
| 124 | RB0 | O | FO09 | 178 | RAI7 | I | FI01 |
| 125 | RB1 | O | FO09 | 179 | GND | - | - |
| 126 | RB2 | O | FO09 | 180 | GND | - | - |
| 127 | RB3 | O | FO09 | 181 | VDD | - | - |
| 128 | RB4 | O | FO09 | 182 | RAI6 | I | FI01 |
| 129 | RB5 | O | FO09 | 183 | RAI5 | I | FI01 |
| 130 | RB6 | O | FO09 | 184 | RAI4 | I | FI01 |
| 131 | RB7 | O | FO09 | 185 | RAI3 | I | FI01 |
| 132 | RB8 | O | FO09 | 186 | RAI2 | I | FI01 |
| 133 | RB9 | O | FO09 | 187 | RAI1 | I | FI01 |
| 134 | RB10 | O | FO09 | 188 | RAI0 | I | FI01 |
| 135 | RB11 | O | FO09 | 189 | RBI7 | I | FI01 |
| 136 | RA0 | O | FO09 | 190 | RBI6 | I | FI01 |
| 137 | RA1 | O | FO09 | 191 | RBI5 | I | FI01 |
| 138 | RA2 | O | FO09 | 192 | RBI4 | I | FI01 |
| 139 | GND | - | - | 193 | RBI3 | I | FI01 |
| 140 | VDD | - | - | 194 | RBI2 | I | FI01 |
| 141 | RA3 | O | FO09 | 195 | RBI1 | I | FI01 |
| 142 | RA4 | O | FO09 | 196 | RBI0 | I | FI01 |
| 143 | RA5 | O | FO09 | 197 | GAI7 | I | FI01 |
| 144 | RA6 | O | FO09 | 198 | GAI6 | I | FI01 |
| 145 | RA7 | O | FO09 | 199 | GAI5 | I | FI01 |
| 146 | RA8 | O | FO09 | 200 | GND | - | - |
| 147 | RA9 | O | FO09 | 201 | VDD | - | - |
| 148 | RA10 | O | FO09 | 202 | GAI4 | I | FI01 |
| 149 | RA11 | O | FO09 | 203 | GAI3 | I | FI01 |
| 150 | GND | - | - | 204 | GAI2 | I | FI01 |
| 151 | TOB0 | O | FO09 | 205 | GAI1 | I | FI01 |
| 152 | TOB1 | O | FO09 | 206 | GAI0 | I | FI01 |
| 153 | TOB2 | O | FO09 | 207 | GBI7 | I | FI01 |
| 154 | TOB3 | O | FO09 | 208 | GBI6 | I | FI01 |

| Pin No. | Pin Name | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 209 | GBI5 | I | FI01 | 225 | BBI7 | I | FI01 |
| 210 | GBI4 | I | FI01 | 226 | BBI6 | I | FI01 |
| 211 | GBI3 | I | FI01 | 227 | BBI5 | I | FI01 |
| 212 | GBI2 | I | FI01 | 228 | BBI4 | I | FI01 |
| 213 | GBI1 | I | FI01 | 229 | BBI3 | I | FI01 |
| 214 | GBI0 | I | FI01 | 230 | BBI2 | I | FI01 |
| 215 | BAI7 | I | FI01 | 231 | BBI1 | I | FI01 |
| 216 | BAI6 | I | FI01 | 232 | BB10 | I | FI01 |
| 217 | BAI5 | I | FI01 | 233 | GND | - | - |
| 218 | BAI4 | I | FI01 | 234 | VLD_AI | I | FI01 |
| 219 | BAI3 | I | FI01 | 235 | VLD_BI | I | FI01 |
| 220 | VDD | - | - | 236 | HDI | I | FI01 |
| 221 | GND | - | - | 237 | VDI | I | FI01 |
| 222 | BAI2 | I | FI01 | 238 | V_ACTB | I | FI01 |
| 223 | BAI1 | I | FI01 | 239 | FLDI | I | FI01 |
| 224 | BAI0 | I | FI01 | 240 | VDD | - | - |

■ PD4893B

(DIGITAL VIDEO ASSY: IC1401)

GATE ARRAY

● Pin Function

| Pin No. | Pin Name | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 1 | GND | - | - | 32 | DO26 | O | FE04 |
| 2 | GND | - | - | 33 | DO25 | O | FE04 |
| 3 | RESETB | I | FIF1 | 34 | DO24 | O | FE04 |
| 4 | GND | - | - | 35 | DO23 | O | FE04 |
| 5 | BIT3 | I | FIV1 | 36 | DO22 | O | FE04 |
| 6 | BIT2 | I | FIV1 | 37 | DO21 | O | FE04 |
| 7 | BIT1 | I | FIV1 | 38 | DO20 | O | FE04 |
| 8 | BIT0 | I | FIV1 | 39 | MY_A3 | O | FO09 |
| 9 | SFSTB | I | FIV1 | 40 | VDD | - | - |
| 10 | CYCLEB | I | FIV1 | 41 | GND | - | - |
| 11 | ER_ON | I | FIV1 | 42 | MY_A2 | O | FO09 |
| 12 | ER_EN | I | FIV1 | 43 | MY_A1 | O | FO09 |
| 13 | GND | - | - | 44 | MY_A0 | O | FO09 |
| 14 | ABFLD | O | FV09 | 45 | PC_CHGB | I | FIU1 |
| 15 | RFLD | O | FV09 | 46 | MY_A9 | O | FO09 |
| 16 | DO39 | O | FE04 | 47 | MY_CSB | O | FO09 |
| 17 | DO38 | O | FE04 | 48 | MY_RASB | O | FO09 |
| 18 | DO37 | O | FE04 | 49 | MY_CASB | O | FO09 |
| 19 | DO36 | O | FE04 | 50 | MY_WB | O | FO09 |
| 20 | GND | - | - | 51 | MY_DQ23 | B | B00U |
| 21 | VDD | - | - | 52 | MY_DQ22 | B | B00U |
| 22 | DO35 | O | FE04 | 53 | MY_DQ21 | B | B00U |
| 23 | DO34 | O | FE04 | 54 | MY_DQ20 | B | B00U |
| 24 | DO33 | O | FE04 | 55 | MY_DQ19 | B | B00U |
| 25 | DO32 | O | FE04 | 56 | MY_DQ18 | B | B00U |
| 26 | DO31 | O | FE04 | 57 | MY_DQ17 | B | B00U |
| 27 | DO30 | O | FE04 | 58 | MY_DQ16 | B | B00U |
| 28 | GND | - | - | 59 | GND | - | - |
| 29 | DO29 | O | FE04 | 60 | GND | - | - |
| 30 | DO28 | O | FE04 | 61 | VDD | - | - |
| 31 | DO27 | O | FE04 | 62 | MY_DQ7 | B | B00U |

Note: I/O B: I/O Buffer (3.3V)

PDP-501MX, PDP-V501X

| Pin No. | Pin Name | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 63 | MY_DQ6 | B | B00U | 117 | MX_A8 | O | FO09 |
| 64 | MY_DQ5 | B | B00U | 118 | MX_A7 | O | FO09 |
| 65 | MY_DQ4 | B | B00U | 119 | MX_A6 | O | FO09 |
| 66 | MY_DQ3 | B | B00U | 120 | VDD | - | - |
| 67 | MY_DQ2 | B | B00U | 121 | GND | - | - |
| 68 | MY_DQ1 | B | B00U | 122 | GND | - | - |
| 69 | MY_DQ0 | B | B00U | 123 | MX_A5 | O | FO09 |
| 70 | MX_A3 | O | FO09 | 124 | MX_A4 | O | FO09 |
| 71 | MX_A2 | O | FO09 | 125 | MY_DQ31 | B | B00U |
| 72 | MX_A1 | O | FO09 | 126 | MY_DQ30 | B | B00U |
| 73 | MX_A0 | O | FO09 | 127 | MY_DQ29 | B | B00U |
| 74 | MULTB | O | FV09 | 128 | MY_DQ28 | B | B00U |
| 75 | MX_A9 | O | FO09 | 129 | MY_DQ27 | B | B00U |
| 76 | MX_CSB | O | FO09 | 130 | MY_DQ26 | B | B00U |
| 77 | MX_RASB | O | FO09 | 131 | MY_DQ25 | B | B00U |
| 78 | MX_CASB | O | FO09 | 132 | MY_DQ24 | B | B00U |
| 79 | MX_WB | O | FO09 | 133 | MY_DQ15 | B | B00U |
| 80 | GND | - | - | 134 | MY_DQ14 | B | B00U |
| 81 | VDD | - | - | 135 | MY_DQ13 | B | B00U |
| 82 | MX_DQ23 | B | B00U | 136 | MY_DQ12 | B | B00U |
| 83 | MX_DQ22 | B | B00U | 137 | MY_DQ11 | B | B00U |
| 84 | MX_DQ21 | B | B00U | 138 | MY_DQ10 | B | B00U |
| 85 | MX_DQ20 | B | B00U | 139 | GND | - | - |
| 86 | MX_DQ19 | B | B00U | 140 | VDD | - | - |
| 87 | MX_DQ18 | B | B00U | 141 | MY_DQ9 | B | B00U |
| 88 | MX_DQ17 | B | B00U | 142 | MY_DQ8 | B | B00U |
| 89 | MX_DQ16 | B | B00U | 143 | DQM | O | FE04 |
| 90 | MX_DQ7 | B | B00U | 144 | GND | - | - |
| 91 | MX_DQ6 | B | B00U | 145 | MY_A8 | O | FO09 |
| 92 | MX_DQ5 | B | B00U | 146 | MY_A7 | O | FO09 |
| 93 | MX_DQ4 | B | B00U | 147 | MY_A6 | O | FO09 |
| 94 | MX_DQ3 | B | B00U | 148 | MY_A5 | O | FO09 |
| 95 | MX_DQ2 | B | B00U | 149 | MY_A4 | O | FO09 |
| 96 | MX_DQ1 | B | B00U | 150 | GND | - | - |
| 97 | MX_DQ0 | B | B00U | 151 | DO0 | O | FE04 |
| 98 | MX_DQ31 | B | B00U | 152 | DO1 | O | FE04 |
| 99 | MX_DQ30 | B | B00U | 153 | DO2 | O | FE04 |
| 100 | VDD | - | - | 154 | DO3 | O | FE04 |
| 101 | GND | - | - | 155 | DO4 | O | FE04 |
| 102 | MX_DQ29 | B | B00U | 156 | DO5 | O | FE04 |
| 103 | MX_DQ28 | B | B00U | 157 | DO6 | O | FE04 |
| 104 | MX_DQ27 | B | B00U | 158 | DO7 | O | FE04 |
| 105 | MX_DQ26 | B | B00U | 159 | DO8 | O | FE04 |
| 106 | MX_DQ25 | B | B00U | 160 | VDD | - | - |
| 107 | MX_DQ24 | B | B00U | 161 | GND | - | - |
| 108 | MX_DQ15 | B | B00U | 162 | DO9 | O | FE04 |
| 109 | MX_DQ14 | B | B00U | 163 | DO10 | O | FE04 |
| 110 | MX_DQ13 | B | B00U | 164 | DO11 | O | FE04 |
| 111 | MX_DQ12 | B | B00U | 165 | DO12 | O | FE04 |
| 112 | MX_DQ11 | B | B00U | 166 | DO13 | O | FE04 |
| 113 | MX_DQ10 | B | B00U | 167 | DO14 | O | FE04 |
| 114 | MX_DQ9 | B | B00U | 168 | DO15 | O | FE04 |
| 115 | MX_DQ8 | B | B00U | 169 | DO16 | O | FE04 |
| 116 | MCLK | O | FO01 | 170 | DO17 | O | FE04 |

| Pin No. | Pin Name | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 171 | DO18 | O | FE04 | 206 | DINB2 | I | FI01 |
| 172 | DO19 | O | FE04 | 207 | DINB1 | I | FI01 |
| 173 | GND | - | - | 208 | DINB0 | I | FI01 |
| 174 | TI0 | I | FIU1 | 209 | VLD_AI | I | FI01 |
| 175 | TI1 | I | FIU1 | 210 | VLD_BI | I | FI01 |
| 176 | TI2 | I | FIU1 | 211 | HI | I | FI01 |
| 177 | TI3 | I | FIU1 | 212 | VI | I | FI01 |
| 178 | TI4 | I | FIU1 | 213 | FILEDI | I | FI01 |
| 179 | GND | - | - | 214 | TMB5 | I | FIU1 |
| 180 | GND | - | - | 215 | TMB4 | B | BOUU |
| 181 | VDD | - | - | 216 | TMB3 | B | BOUU |
| 182 | MUTEB | I | FIU1 | 217 | TMB2 | I | FIU1 |
| 183 | DINA11 | I | FI01 | 218 | TMB1 | I | FIU1 |
| 184 | DINA10 | I | FI01 | 219 | TMB0 | I | FIU1 |
| 185 | DINA9 | I | FI01 | 220 | VDD | - | - |
| 186 | DINA8 | I | FI01 | 221 | GND | - | - |
| 187 | DINA7 | I | FI01 | 222 | CLK2A | I | FI01 |
| 188 | DINA6 | I | FI01 | 223 | GND | - | - |
| 189 | DINA5 | I | FI01 | 224 | CLK2B | I | FI01 |
| 190 | DINA4 | I | FI01 | 225 | GND | - | - |
| 191 | DINA3 | I | FI01 | 226 | CLK2C | I | FI01 |
| 192 | DINA2 | I | FI01 | 227 | GND | - | - |
| 193 | DINA1 | I | FI01 | 228 | MODE2 | I | FDV1 |
| 194 | DINA0 | I | FI01 | 229 | MODE1 | I | FDV1 |
| 195 | DINB11 | I | FI01 | 230 | MODE0 | I | FDV1 |
| 196 | DINB10 | I | FI01 | 231 | LN_DTB | I | FDV1 |
| 197 | DINB9 | I | FI01 | 232 | PROG_INT | I | FDV1 |
| 198 | DINB8 | I | FI01 | 233 | W_NB | I | FDV1 |
| 199 | DINB7 | I | FI01 | 234 | GND | - | - |
| 200 | GND | - | - | 235 | SDT | I | FIV1 |
| 201 | VDD | - | - | 236 | SENB | I | FIV1 |
| 202 | DINB6 | I | FI01 | 237 | SCLK | I | FIV1 |
| 203 | DINB5 | I | FI01 | 238 | GND | - | - |
| 204 | DINB4 | I | FI01 | 239 | CLK3 | I | FI01 |
| 205 | DINB3 | I | FI01 | 240 | VDD | - | - |

■ PD4894A

(DIGITAL VIDEO ASSY: IC1551)

GATE ARRAY

● Pin Function

| Pin No. | Pin Name | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 1 | VDD | - | - | 11 | IJ9 | O | FO01 |
| 2 | IJ0 | O | FO01 | 12 | IJ10 | O | FO01 |
| 3 | IJ1 | O | FO01 | 13 | IJ11 | O | FO01 |
| 4 | IJ2 | O | FO01 | 14 | IJ12 | O | FO01 |
| 5 | IJ3 | O | FO01 | 15 | IJ13 | O | FO01 |
| 6 | IJ4 | O | FO01 | 16 | IJ14 | O | FO01 |
| 7 | IJ5 | O | FO01 | 17 | IJ15 | O | FO01 |
| 8 | IJ6 | O | FO01 | 18 | GH0 | O | FO01 |
| 9 | IJ7 | O | FO01 | 19 | GND | - | - |
| 10 | IJ8 | O | FO01 | 20 | GH1 | O | FO01 |

PDP-501MX, PDP-V501X

| Pin No. | Pin Name | I/O | BLOCK TYPE | Pin No. | Pin Name | I/O | BLOCK TYPE |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 21 | GH2 | O | FO01 | 73 | VDD | - | - |
| 22 | GH3 | O | FO01 | 74 | CD6 | O | FO01N |
| 23 | GH4 | O | FO01 | 75 | CD7 | O | FO01N |
| 24 | GH5 | O | FO01 | 76 | CD8 | O | FO01N |
| 25 | GH6 | O | FO01 | 77 | CD9 | O | FO01N |
| 26 | GH7 | O | FO01 | 78 | CD10 | O | FO01N |
| 27 | GH8 | O | FO01 | 79 | CD11 | O | FO01N |
| 28 | GH9 | O | FO01 | 80 | CD12 | O | FO01N |
| 29 | GH10 | O | FO01 | 81 | CD13 | O | FO01N |
| 30 | GH11 | O | FO01 | 82 | CD14 | O | FO01N |
| 31 | GH12 | O | FO01 | 83 | CD15 | O | FO01N |
| 32 | GH13 | O | FO01 | 84 | CLK1B | O | FO01 |
| 33 | GH14 | O | FO01 | 85 | CLK1 | O | FO01 |
| 34 | GH15 | O | FO01 | 86 | CLK2C | O | FO01 |
| 35 | BLK0 | O | FO01 | 87 | CLK2B | O | FO01 |
| 36 | VDD | - | - | 88 | CLK2A | O | FO01 |
| 37 | GND | - | - | 89 | CLK3 | O | FO01 |
| 38 | GND | - | - | 90 | GND | - | - |
| 39 | BLK1 | O | FO01 | 91 | CLK6 | I | FI01 |
| 40 | BLK2 | O | FO01 | 92 | GND | - | - |
| 41 | BLK3 | O | FO01 | 93 | CLK_RESB | I | FUS1 |
| 42 | BLK4 | O | FO01 | 94 | BIT0 | O | FO01 |
| 43 | BLK5 | O | FO01 | 95 | BIT1 | O | FO01 |
| 44 | BLK6 | O | FO01 | 96 | BIT2 | O | FO01 |
| 45 | BLK7 | O | FO01 | 97 | BIT3 | O | FO01 |
| 46 | BLK8 | O | FO01 | 98 | DLOAD | O | FO01 |
| 47 | BLK9 | O | FO01 | 99 | START | O | FO01 |
| 48 | EF0 | O | FO01 | 100 | PSTOPB | O | FO01 |
| 49 | EF1 | O | FO01 | 101 | TEST_A | I | FID1 |
| 50 | EF2 | O | FO01 | 102 | TEST_B | I | FID1 |
| 51 | EF3 | O | FO01 | 103 | TEST_C | I | FID1 |
| 52 | EF4 | O | FO01 | 104 | BUNRI | I | FIU1 |
| 53 | EF5 | O | FO01 | 105 | UA14 | I | FI01H |
| 54 | VDD | - | - | 106 | UA13 | I | FI01H |
| 55 | EF6 | O | FO01 | 107 | UA12 | I | FI01H |
| 56 | EF7 | O | FO01 | 108 | VDD | - | - |
| 57 | EF8 | O | FO01 | 109 | GND | - | - |
| 58 | EF9 | O | FO01 | 110 | GND | - | - |
| 59 | EF10 | O | FO01 | 111 | UA11 | I | FI01H |
| 60 | EF11 | O | FO01 | 112 | UA10 | I | FI01H |
| 61 | EF12 | O | FO01 | 113 | UA9 | I | FI01H |
| 62 | EF13 | O | FO01 | 114 | UA8 | I | FI01H |
| 63 | EF14 | O | FO01 | 115 | UA7 | I | FI01H |
| 64 | EF15 | O | FO01 | 116 | UA6 | I | FI01H |
| 65 | CD0 | O | FO01N | 117 | UA5 | I | FI01H |
| 66 | CD1 | O | FO01N | 118 | UA4 | I | FI01H |
| 67 | CD2 | O | FO01N | 119 | UA3 | I | FI01H |
| 68 | CD3 | O | FO01N | 120 | UA2 | I | FI01H |
| 69 | CD4 | O | FO01N | 121 | UA1 | I | FI01H |
| 70 | CD5 | O | FO01N | 122 | UD15 | I | FI01 |
| 71 | GND | - | - | 123 | UD14 | I | FI01 |
| 72 | GND | - | - | 124 | UD13 | I | F101H |

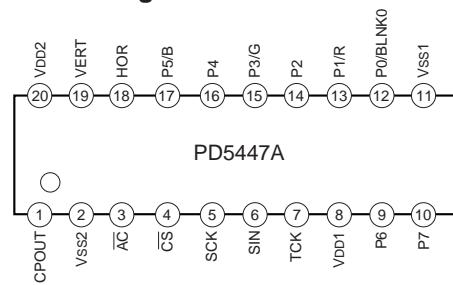
| Pin No. | Pin Name | I/O | Block Type | Pin No. | Pin Name | I/O | Block Type |
|---------|----------|-----|------------|---------|----------|-----|------------|
| 125 | UD12 | I | F101H | 135 | UD2 | I | F101H |
| 126 | UD11 | I | F101H | 136 | UD1 | I | F101H |
| 127 | UD10 | I | F101H | 137 | UD0 | I | F101H |
| 128 | UD9 | I | F101H | 138 | CLRB | I | FIU1 |
| 129 | UD8 | I | F101H | 139 | SEL2B | I | FIU1 |
| 130 | UD7 | I | F101H | 140 | CS5B | I | FIU1 |
| 131 | UD6 | I | F101H | 141 | HWRB | I | FIU1 |
| 132 | UD5 | I | F101H | 142 | IC_RESB | I | FUS1 |
| 133 | UD4 | I | F101H | 143 | GND | - | - |
| 134 | UD3 | I | F101H | 144 | GND | - | - |

■ PD5447A

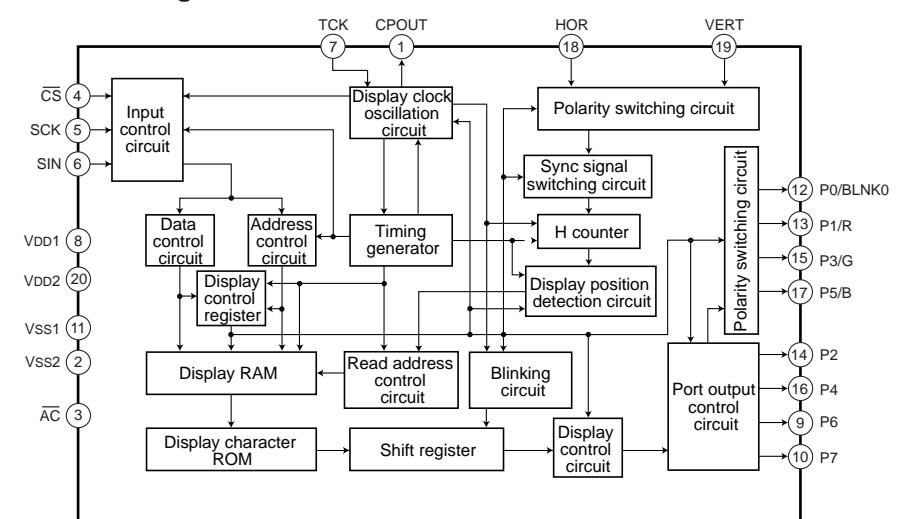
(DIGITAL VIDEO ASSY: IC1271)

OSD IC

● Pin Assignment



● Block Diagram

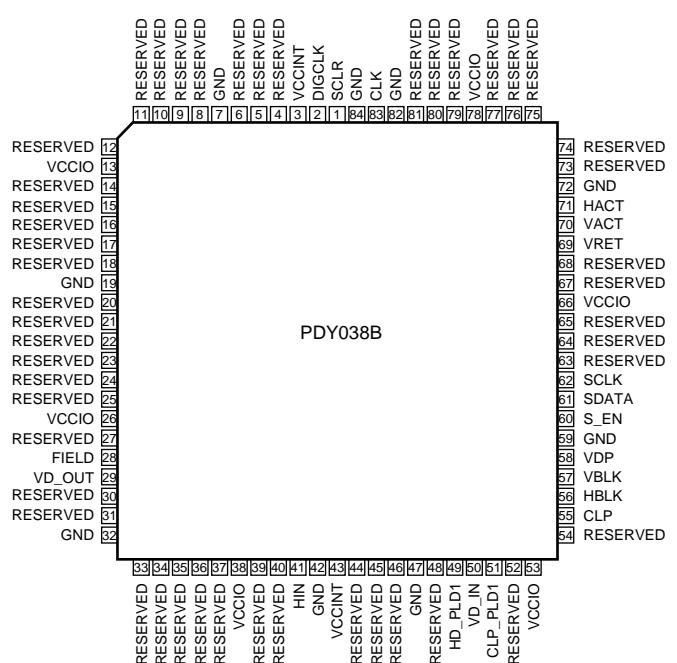


■ PDY038B

(DIGITAL VIDEO ASSY: IC1286)

FPGA

● Pin Assignment



VCCINT = Exclusive power supply pin. Connected to VCC
VCCIO = Exclusive power supply pin. Connected to VCC
GND = Exclusive ground pin or unused exclusive input. Connected to GND
RESERVED = Unused I/O pin. Do not connect.

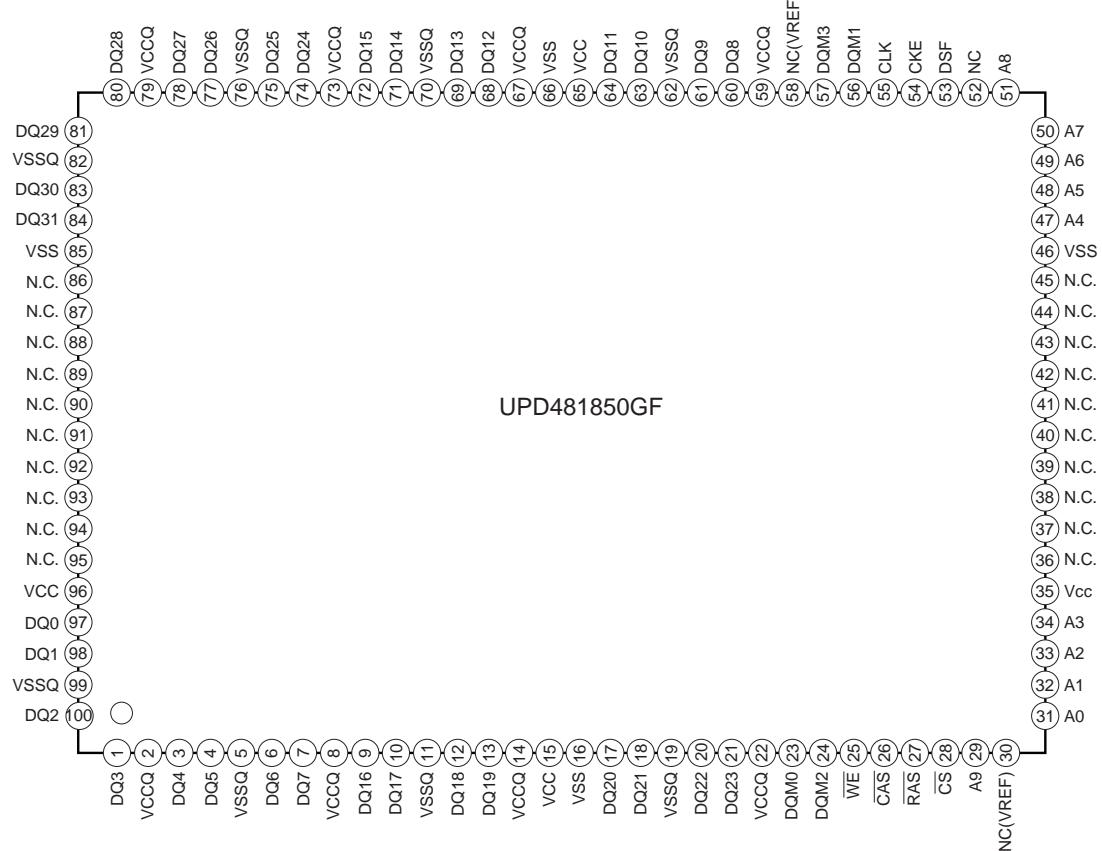
PDP-501MX, PDP-V501X

■ UPD481850GF

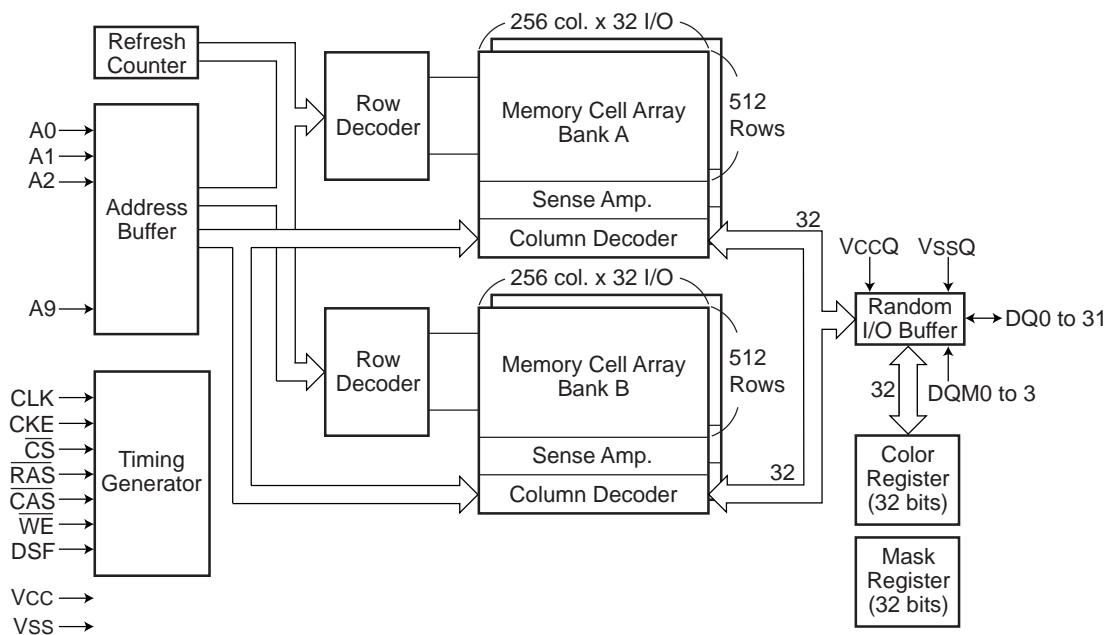
(DIGITAL VIDEO ASSY: IC1701)

SGRAM

● Pin Assignment



● Block Diagram



■ HD64F3048F16

(DIGITAL VIDEO ASSY: IC1601)

PANEL µ-COM

● Pin Function

| Pin No. | Pin Name | I/O | Pin Function | Pin No. | Pin Name | I/O | Pin Function |
|---------|----------|-----|--------------|---------|----------|-----|--------------|
| 1 | VCC | - | +5D | 51 | A14 | O | ADRESS14 |
| 2 | PB0 | O | SEL0B | 52 | A15 | O | - |
| 3 | PB1 | O | SEL1B | 53 | A16 | O | - |
| 4 | PB2 | O | SEL2B | 54 | A17 | O | - |
| 5 | PB3 | O | LN_DTB | 55 | A18 | O | - |
| 6 | PB4 | O | PRG_INT12 | 56 | A19 | O | - |
| 7 | PB5 | O | PRG_INTB | 57 | VSS | - | DGND |
| 8 | PB6 | I | STOPB | 58 | P60 | O | MODE0 |
| 9 | PB7 | O | CLRB | 59 | P61 | O | MODE1 |
| 10 | RES0 | - | VPP/RESO | 60 | P62 | O | MODE2 |
| 11 | VSS | - | DGND | 61 | Ø | O | - |
| 12 | P90 | O | ERR | 62 | STBY | I | - |
| 13 | TXD1 | O | D_TXD | 63 | RES | I | RESET |
| 14 | RXD0 | I | D_DATA | 64 | NMI | - | - |
| 15 | RXD1 | I | D_RXD | 65 | VSS | - | DGND |
| 16 | SCK0 | I | D_CLK | 66 | EXTAL | I | CLK1 |
| 17 | P95 | O | BUSY | 67 | XTAL | I | - |
| 18 | D0 | I/O | DATA0 | 68 | VCC | - | +5D |
| 19 | D1 | I/O | DATA1 | 69 | AS | O | - |
| 20 | D2 | I/O | DATA2 | 70 | RD | O | RDB |
| 21 | D3 | I/O | DATA3 | 71 | HWR | O | HWRB |
| 22 | VSS | - | DGND | 72 | LWR | O | - |
| 23 | D4 | I/O | DATA4 | 73 | MD0 | I | MD0 |
| 24 | D5 | I/O | DATA5 | 74 | MD1 | I | MD1 |
| 25 | D6 | I/O | DATA6 | 75 | MD2 | I | MD2 |
| 26 | D7 | I/O | DATA7 | 76 | AVCC | - | AVCC |
| 27 | D8 | I/O | DATA8 | 77 | VREF | - | VREF |
| 28 | D9 | I/O | DATA9 | 78 | P70 | I | RFLD |
| 29 | D10 | I/O | DATA10 | 79 | P71 | I | VACT_BL |
| 30 | D11 | I/O | DATA11 | 80 | P72 | I | ABFLD |
| 31 | D12 | I/O | DATA12 | 81 | P73 | I | PLL_ULK |
| 32 | D13 | I/O | DATA13 | 82 | P74 | - | - |
| 33 | D14 | I/O | DATA14 | 83 | P75 | - | - |
| 34 | D15 | I/O | DATA15 | 84 | P76 | - | - |
| 35 | VCC | - | +5D | 85 | P77 | - | - |
| 36 | A0 | O | ADRESS0 | 86 | AVSS | - | DGND |
| 37 | A1 | O | ADRESS1 | 87 | P80 | O | SENB |
| 38 | A2 | O | ADRESS2 | 88 | P80/IRQ1 | I | VDL |
| 39 | A3 | O | ADRESS3 | 89 | IRQ2 | I | APLP |
| 40 | A4 | O | ADRESS4 | 90 | P83/IRQ3 | I | EMG_U |
| 41 | A5 | O | ADRESS5 | 91 | P84 | - | - |
| 42 | A6 | O | ADRESS6 | 92 | VSS | - | DGND |
| 43 | A7 | O | ADRESS7 | 93 | PA0 | - | - |
| 44 | VSS | - | DGND | 94 | PA1 | O | SCLK_P |
| 45 | A8 | O | ADRESS8 | 95 | PA2 | O | ENABLE |
| 46 | A9 | O | ADRESS9 | 96 | PA3 | O | SDT |
| 47 | A10 | O | ADRESS10 | 97 | PA4 | O | SCLK |
| 48 | A11 | O | ADRESS11 | 98 | PA5 | O | CSB5 |
| 49 | A12 | O | ADRESS12 | 99 | PA6 | O | CSB4 |
| 50 | A13 | O | ADRESS13 | 100 | PA7 | O | RESETB |

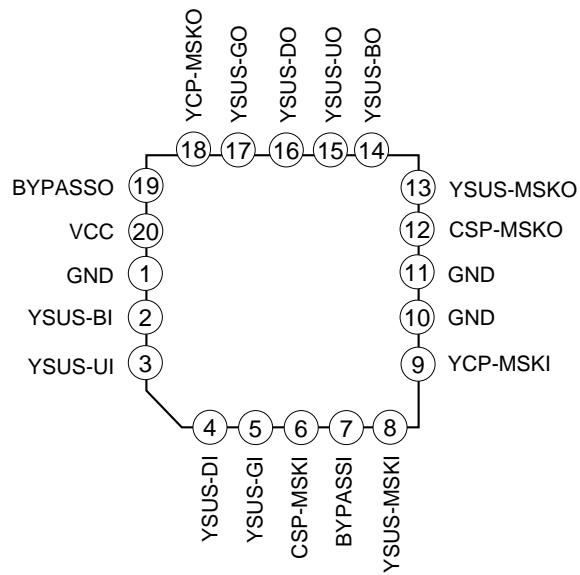
PDP-501MX, PDP-V501X

■ PDY042A

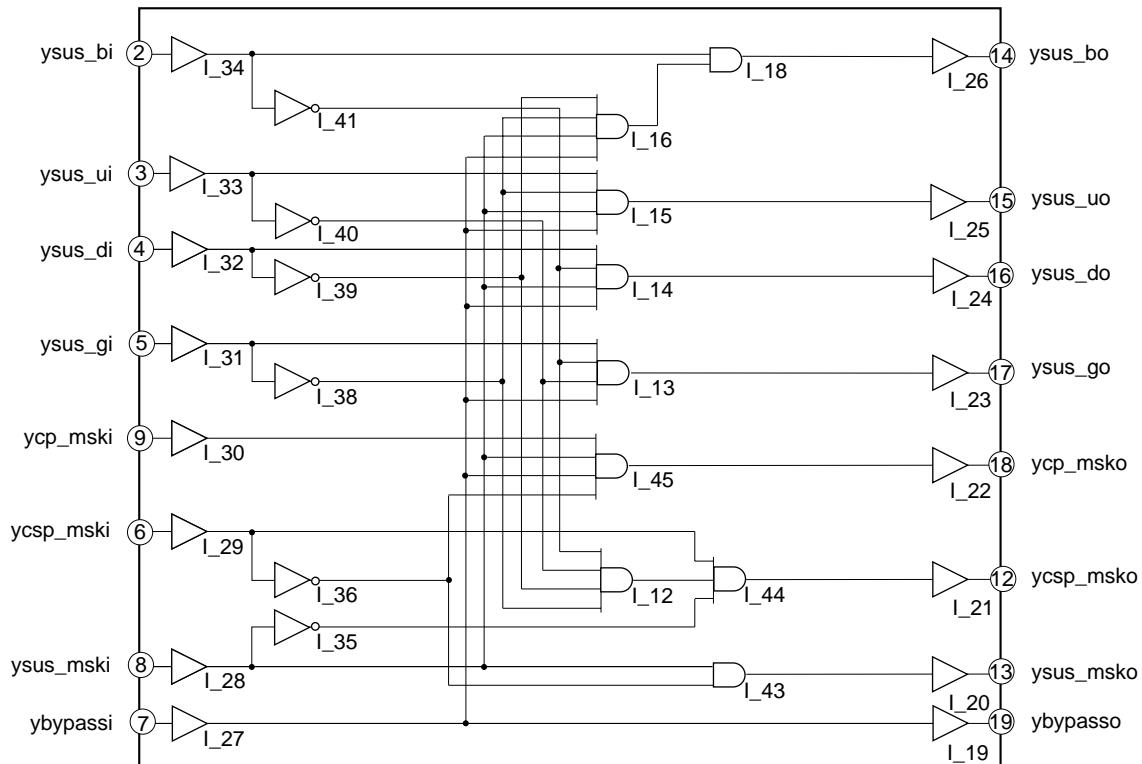
(Y DRIVE A ASSY: IC3109)

PLD

● Pin Assignment



● Block Diagram

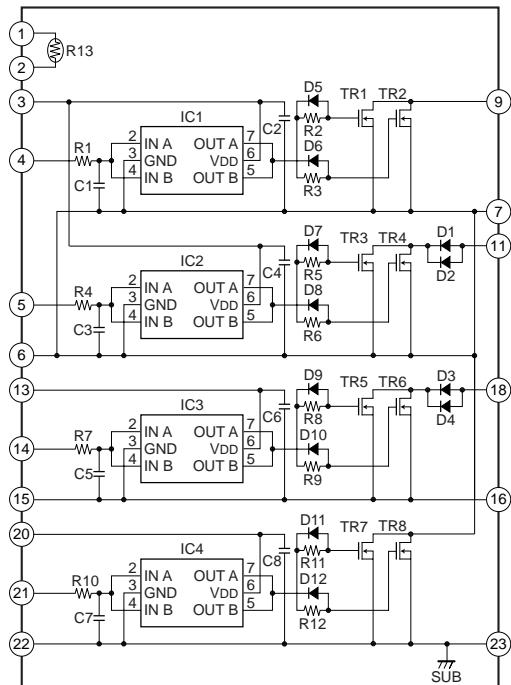


■ STK795-120A

(Y DRIVE A ASSY: IC3101)

PDP PULSE MODULE IC

● Pin Assignment

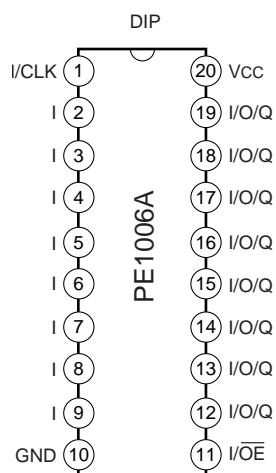


■ PE1006A

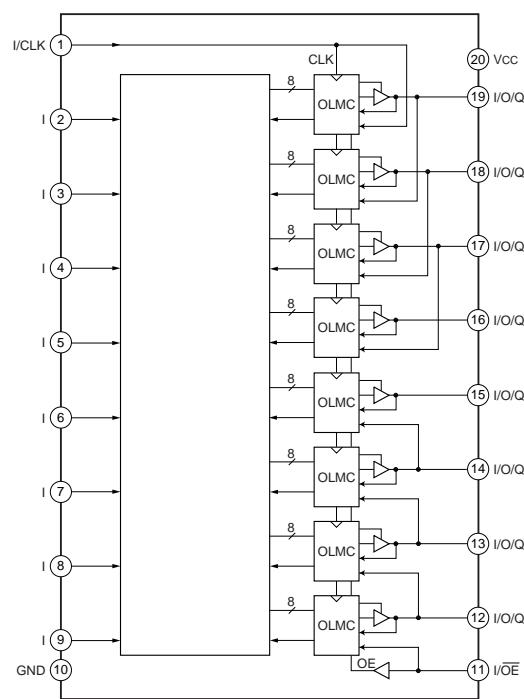
(X DRIVE A ASSY: IC2612)

PLD IC

● Pin Assignment



● Block Diagram



■ PD5435

(μ-CON ASSY : IC3703)

TV SYSTEM CONTROL μ-COM

● Pin Function

| Pin No.. | Pin Name | I/O | Pin Function |
|----------|----------|-----|---|
| 1 | KEY2 | I | A/D key input |
| 2 | P/CB OX | I | Refer to separate sheet |
| 3 | S2DET | I | 0 to 1.3V:normal, 1.4 to 2.4V:letter box, 2.5 to 5V:squeeze |
| 4 | PH | I | SYNC polarity (H) for PC discrimination. When not input:L |
| 5 | PV | I | SYNC polarity (V) for PC discrimination. When not input:L |
| 6 | Y OX | I | - |
| 7 | SCL | O | I ² C BUS data |
| 8 | SDA | I/O | I ² C BUS clock |
| 9 | CLK2 | O | Clock for serial 3 lines |
| 10 | DATA2 | I/O | Data for serial 3 lines |
| 11 | RTS | O | Transmission request signal to C BOX |
| 12 | VOL | O | AUDIO VOLUME 0.6V:MIN, 5V:MAX |
| 13 | - | - | - |
| 14 | HDM | I | SYNCK (H) for PC discrimination |
| 15 | VDM | I | SYNCK (L) for PC discrimination |
| 16 | CTS | I | Transmission approval to C BOX |
| 17 | BUSY | I | Reception rejection signal from panel microprocessor |
| 18 | *EMG P | - | NOT USED. |
| 19 | EP RST | O | EEPROM reset |
| 20 | (E)SDA | I/O | I ² C BUS data for EEPROM |
| 21 | (E)SCL | O | I ² C BUS clock for EEPROM |
| 22 | TXD | O | Transmission to outside (169 C BOX, 43 PC) |
| 23 | RXD | I | Reception with outside (169 C BOX, 43 PC) |
| 24 | REM | I | Remote control signal |
| 25 | KEY | I | Key scan input |
| 26 | (CNVSS) | - | - |
| 27 | (*RESET) | - | - |
| 28 | POWER | O | POWER ON/OFF |
| 29 | *S OX | I | S input:L/composite input:H |
| 30 | (X IN) | - | - |
| 31 | (X OUT) | - | - |
| 32 | (VSS) | - | - |
| 33 | PLL_ULK | I/O | PLL asynchronous state |
| 34 | 50/60 | O | 50/60 |
| 35 | RGB SW1 | O | BNC:H (RGB1)/Dsub:(RGB2) |
| 36 | ERR | I | Communication NG from panel microprocessor |
| 37 | PN RST | O | Panel microprocessor reset signal |
| 38 | V MUTE | O | Screen muting |
| 39 | *LED GRN | O | Green LED lighting |
| 40 | *LED RED | O | Red LED lighting |
| 41 | *LED YLW | - | Yellow LED lighting |
| 42 | CLOCK | - | - |
| 43 | COL2 | - | - |
| 44 | COL1 | - | - |
| 45 | *SW3 | - | - |
| 46 | *SW2 | - | - |
| 47 | *SW1 | - | - |
| 48 | *EWG U | - | NOT USED. |
| 49 | *PN MUTE | O | Panel muting (NOT USED) |
| 50 | PMV | I | V SYNC when G ON SYNKCOMP SYNC |

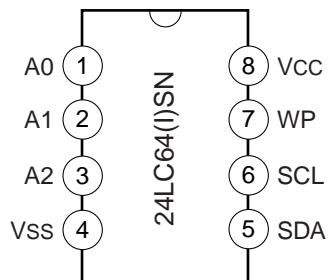
| Pin No. | Pin Name | I/O | Pin Function |
|---------|----------|-----|--|
| 51 | PMH | I | H SYNC when G ON SYNKCOMP SYNC |
| 52 | A MUTE | O | NOT USED |
| 53 | *PNL CE | O | Enable for panel microprocessor |
| 54 | PLD1 CE | O | Enable for PLD1 |
| 55 | OSD CE | O | Enable for OSD |
| 56 | DAC CE | O | Enable for DAC |
| 57 | ON MUTE | O | NOT USED |
| 58 | PLD3 CE | O | - |
| 59 | PLD3 RST | O | Enable for PLD3 |
| 60 | GATE CE | O | Reset for PLD3 |
| 61 | AFC SET | O | NOT USED |
| 62 | EMG S1 | - | NOT USED |
| 63 | EMG S2 | - | NOT USED |
| 64 | FR SEL | O | When free-running is selected: H |
| 65 | *OSD CLR | O | When OSD is cleared: L |
| 66 | *RESET2 | I | AC disconnection: L (includes PD detection) |
| 67 | FAN | O | NOT USED |
| 68 | TEMP PD | O | PD output for abnormally high temperature |
| 69 | *CB MUTE | O | When ID is set:H |
| 70 | EMG | O | NOT USED |
| 71 | SYNC OX2 | I | Input for power management |
| 72 | SYNC OX1 | I | Input for power management |
| 73 | (VCC) | - | - |
| 74 | (VRF) | - | - |
| 75 | (AVSS) | - | - |
| 76 | TEMP1 | I | Temperature detection data input. L: Luminance change. |
| 77 | TEMP2 | I | Temperature detection data input. L: POF. |
| 78 | TEMP3 | I | Temperature detection data input (NOT USED). |
| 79 | TEMP4 | I | Temperature detection data input (NOT USED). |
| 80 | TEMP5 | I | Temperature detection data input (NOT USED). |

■ 24LC64(I)SN

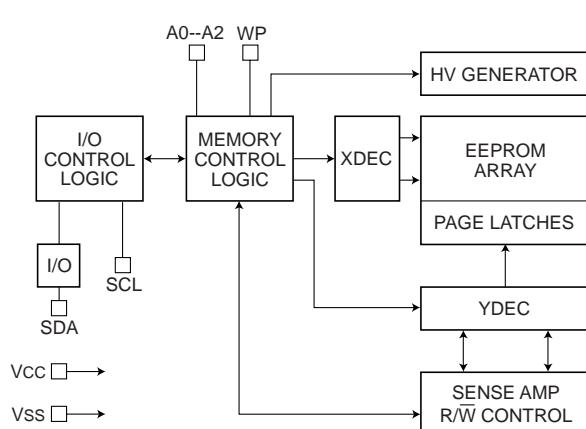
(μ-CON ASSY (1/5) : IC3704)

EEPROM

● Pin Assignment



● Block Diagram



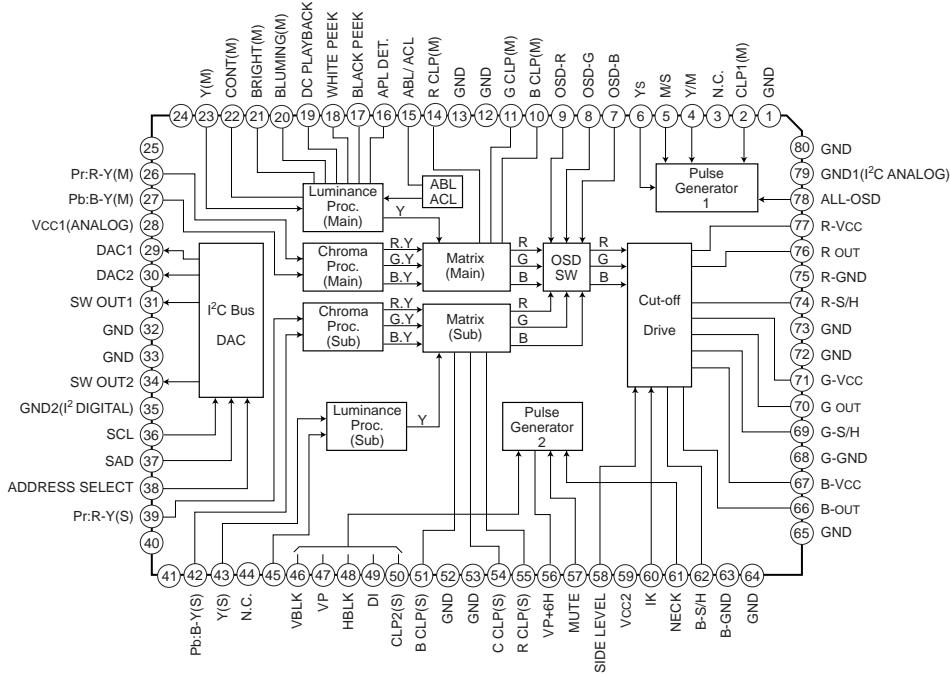
PDP-501MX, PDP-V501X

■ AN5390FBS

(RGB ASSY: IC6001)

HDTV IC

● Pin Assignment



● Pin Function

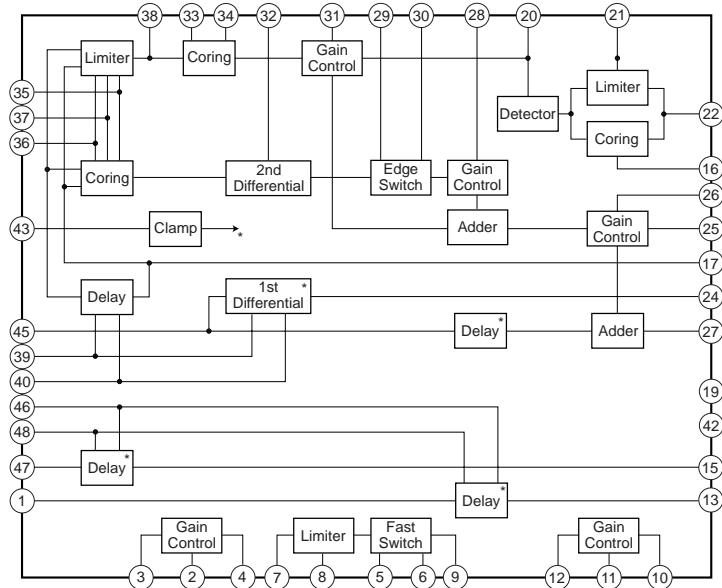
| Pin No. | Pin Function | Pin No. | Pin Function | Pin No. | Pin Function |
|---------|--------------------------------------|---------|----------------------------------|---------|--------------------------------------|
| 1 | GND | 28 | VCC1 (analog) | 55 | R-CLP (S) filter terminal |
| 2 | CLP1 input terminal | 29 | DAC1 output terminal | 56 | VP+6H output terminal |
| 3 | Non connection | 30 | DAC2 output terminal | 57 | MUTE input terminal |
| 4 | YM input terminal | 31 | SW output 1 | 58 | Side level variable terminal |
| 5 | M/S input terminal | 32 | GND | 59 | VCC2 (I ² C) |
| 6 | Ys input terminal | 33 | GND | 60 | IK input terminal |
| 7 | OSD-B input terminal | 34 | SW output 2 | 61 | Neck detection input terminal |
| 8 | OSD-G input terminal | 35 | GND2 (FC) | 62 | B-S/H filter terminal |
| 9 | OSD-R input terminal | 36 | SCL input terminal | 63 | GND (For B output) |
| 10 | B-CLP (M) filter terminal | 37 | SDA input terminal | 64 | GND |
| 11 | G-CLP (M) filter terminal | 38 | Slave address switching terminal | 65 | GND |
| 12 | GND | 39 | Pr (S) signal input terminal | 66 | B output terminal |
| 13 | GND | 40 | GND | 67 | VCC (For B output) |
| 14 | R-CLP (M) filter terminal | 41 | GND | 68 | GND (For G output) |
| 15 | ABL/ACL signal filter terminal | 42 | Pb (S) signal input terminal | 69 | G-S/H filter terminal |
| 16 | APL detection filter terminal | 43 | Y (S) signal input terminal | 70 | G output terminal |
| 17 | Black peak detection filter terminal | 44 | Non connection | 71 | VCC (For G output) |
| 18 | White peak detection filter terminal | 45 | Y(S) signal slice level | 72 | GND |
| 19 | DC playback rate variable terminal | 46 | VBLK input terminal | 73 | GND |
| 20 | Blooming level input terminal | 47 | VP input terminal | 74 | R-S/H filter terminal |
| 21 | ABL input terminal | 48 | H BLK input terminal | 75 | GND (For R output) |
| 22 | ACL input terminal | 49 | DI input terminal | 76 | R output terminal |
| 23 | Y (M) signal input terminal | 50 | CLP2 input terminal | 77 | VCC (For R output) |
| 24 | GND | 51 | B-CLP (S) filter terminal | 78 | All screen OSD signal input terminal |
| 25 | GND | 52 | GND | 79 | GND1 (Analog) |
| 26 | Pr (M) signal input terminal | 53 | GND | 80 | GND |
| 27 | Pb (M) signal input terminal | 54 | G-CLP (S) filter terminal | | |

■ AN5395FBP

(RGB ASSY : IC6002)

HDTV IC

● Block Diagram



● Pin Function

| Pin No. | Pin Function | Pin No. | Pin Function |
|---------|--|---------|---|
| 1 | PR input | 25 | Sharpness mute control |
| 2 | VM preamplifier gain control | 26 | Sharpness control |
| 3 | VM preamplifier input | 27 | Y output |
| 4 | VM preamplifier output | 28 | Contour gain control |
| 5 | Sub screen Ys input | 29 | Contour bias |
| 6 | Ys input | 30 | Secondary differential input |
| 7 | VM limiter amplifier input | 31 | Fine gain control |
| 8 | VM limiter amplifier gain control | 32 | Post-correction primary differential output |
| 9 | VM limiter amplifier output | 33 | Fine coring control |
| 10 | Sub screen amplifier output | 34 | Fine coring bias |
| 11 | Sub screen amplifier gain control | 35 | Differential signal bias 1 |
| 12 | Sub screen amplifier output | 36 | Contour, fine separation level control |
| 13 | PR output | 37 | Differential signal bias 2 |
| 14 | NC | 38 | Fine limiter output |
| 15 | PB output | 39 | Y delay line switch 1 |
| 16 | DSC large signal gain control | 40 | Y delay line switch 2 |
| 17 | Pre-correction primary differential input | 41 | NC |
| 18 | NC | 42 | GND |
| 19 | VCC | 43 | Clamp pulse input |
| 20 | DSC detection output | 44 | NC |
| 21 | DSC small signal gain control | 45 | Y input |
| 22 | DSC input | 46 | C delay line switch 1 |
| 23 | DSC bias | 47 | PB input |
| 24 | Pre-correction primary differential output | 48 | C delay line switch 2 |

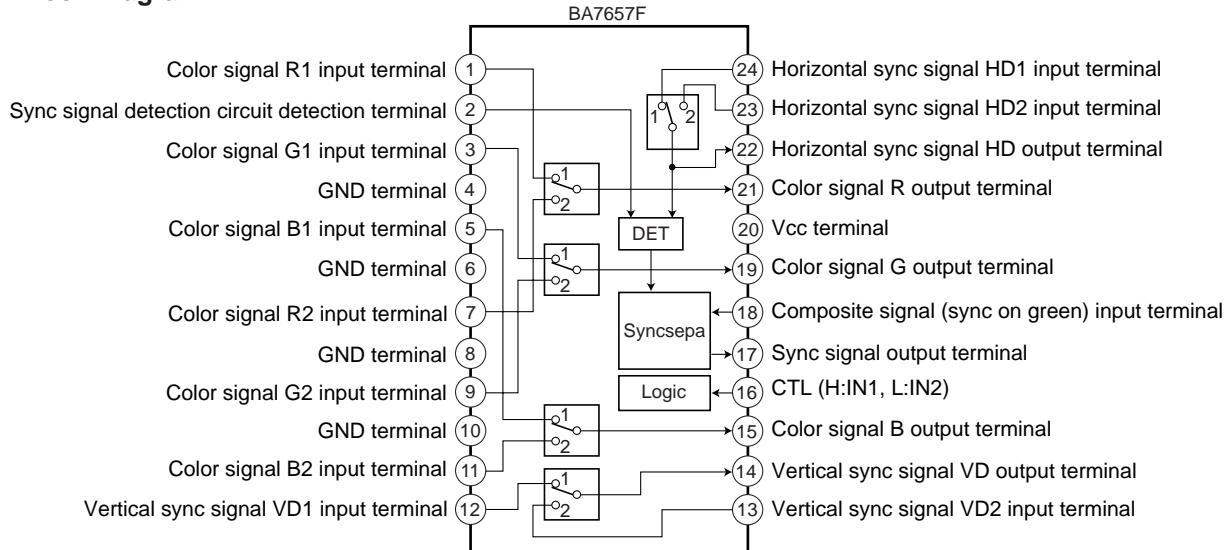
PDP-501MX, PDP-V501X

■ BA7657F

(RGB ASSY : IC5101)

VIDEO SW IC

● Block Diagram



■ M52337SP

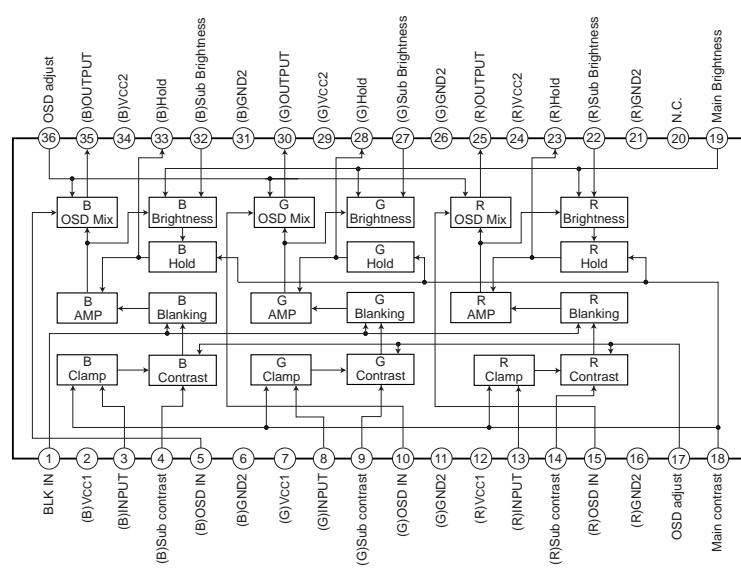
(RGB ASSY : IC5801)

3 channel video preamp

● Pin Assignment

| | | | |
|------------------|----|-------------------|----|
| BLK IN | 1 | OSD adjust | 36 |
| Vcc1(B) | 2 | OUTPUT(B) | 35 |
| INPUT(B) | 3 | VCC2(B) | 34 |
| Sub contrast (B) | 4 | Hold(B) | 33 |
| OSD IN(B) | 5 | Sub brightness(B) | 32 |
| GND1(B) | 6 | GND2(B) | 31 |
| VCC1(G) | 7 | OUTPUT(G) | 30 |
| INPUT(G) | 8 | VCC2(G) | 29 |
| Sub contrast (G) | 9 | Hold(G) | 28 |
| OSD IN(G) | 10 | Sub brightness(G) | 27 |
| GND1(G) | 11 | GND2(G) | 26 |
| VCC1(R) | 12 | OUTPUT(R) | 25 |
| INPUT(R) | 13 | VCC2(R) | 24 |
| Sub contrast (R) | 14 | Hold(R) | 23 |
| OSD IN(R) | 15 | Sub brightness(R) | 22 |
| GND1(R) | 16 | GND2(R) | 21 |
| Main contrast | 17 | N.C. | 20 |
| CP IN | 18 | Main brightness | 19 |

● Block Diagram

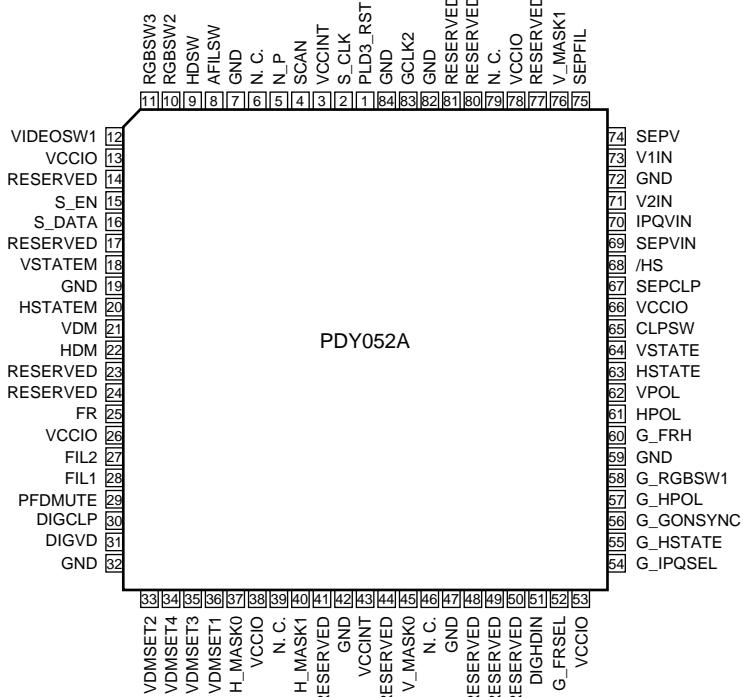


■ PDY052A

(RGB ASSY : IC5301)

CMOS EPLD

● Pin Assignment

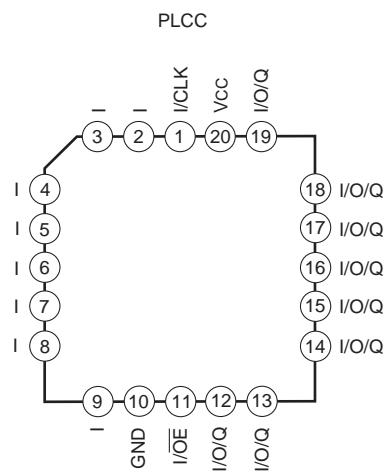


■ PE1007A

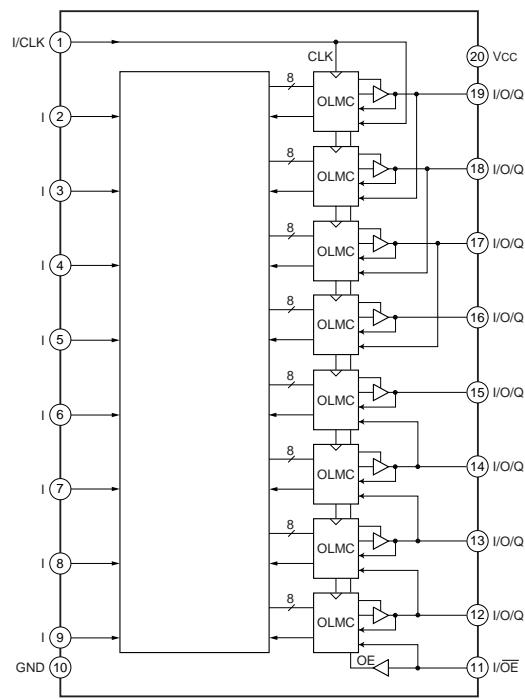
(RGB ASSY : IC5310)

PLD IC

● Pin Assignment



● Block Diagram



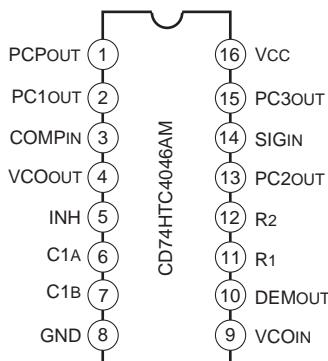
PDP-501MX, PDP-V501X

■ CD74HCT4046AM

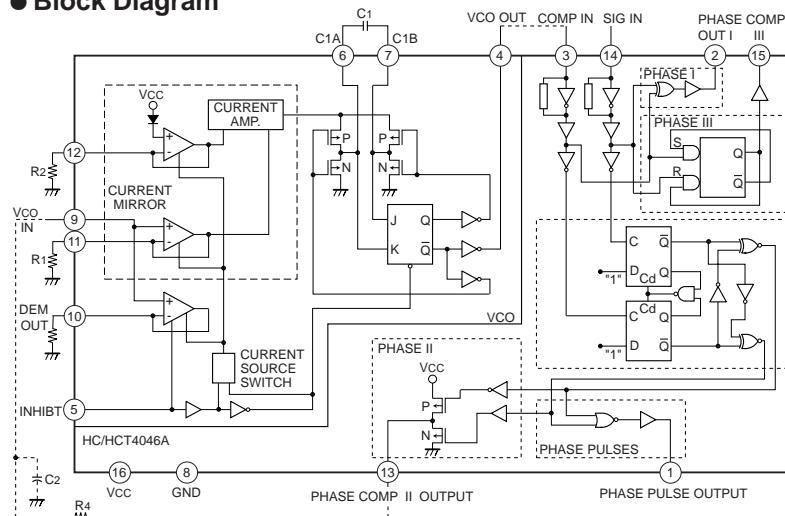
(PROGRESSIVE BLOCK : IC4713)

PLL IC

● Pin Assignment



● Block Diagram



● Pin Function

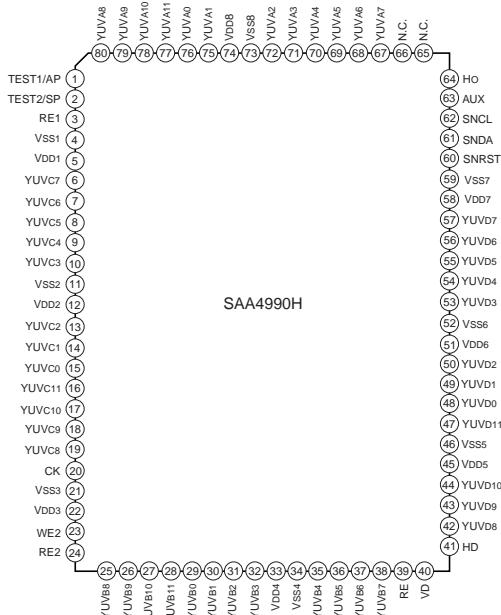
| Pin No. | Pin Name | Pin Function | Pin No. | Pin Name | Pin Function |
|---------|--------------------|-------------------------------|---------|--------------------|------------------------------------|
| 1 | PCP _{OUT} | Phase comparator pulse output | 9 | VCO _{IN} | VCO input |
| 2 | PC1 _{OUT} | Phase comparator 1 output | 10 | DEM _{OUT} | Demodulator output |
| 3 | COMP _{IN} | Comparator input | 11 | R ₁ | Resistor R ₁ connection |
| 4 | VCO _{OUT} | VCO output | 12 | R ₂ | Resistor R ₂ connection |
| 5 | INH | Inhibit input | 13 | PC2 _{OUT} | Phase comparator 2 output |
| 6 | C1 _A | Capacitor C1 connection A | 14 | SIG _{IN} | Signal input |
| 7 | C1 _B | Capacitor C1 connection B | 15 | PC3 _{OUT} | Phase comparator 3 output |
| 8 | | Ground(0V) | 16 | | Positive supply voltage |

■ SAA4990H

(PROGRESSIVE BLOCK : IC4719)

PROZONIC IC

● Pin Assignment



● Pin Function

| Pin No. | Pin Name | TYPE | Pin Function |
|---------|----------|------|---|
| 1 | TEST1/AP | I | Action pin for testing to be connected to Vss |
| 2 | TEST2/SP | I | Shift pin for testing to be connected to Vss |
| 3 | RE1 | O | Read enable to FM1 |
| 4 | VSS 1 | G | Ground 1 |
| 5 | VDD 1 | S | Supply voltage 1 |
| 6 | YUV C7 | O | Y bit 7 to FM2 |
| 7 | YUV C6 | O | Y bit 6 to FM2 |
| 8 | YUV C5 | O | Y bit 5 to FM2 |
| 9 | YUV C4 | O | Y bit 4 to FM2 |
| 10 | YUV C3 | O | Y bit 3 to FM2 |
| 11 | VSS 2 | G | Ground 2 |
| 12 | VDD 2 | S | Supply voltage 2 |
| 13 | YUV C2 | O | Y bit 2 to FM2 |
| 14 | YUV C1 | O | Y bit 1 to FM2 |
| 15 | YUV C0 | O | Y bit 0 to FM2 |
| 16 | YUV C11 | O | UV bit 3 to FM2 |
| 17 | YUV C10 | O | UV bit 2 to FM2 |
| 18 | YUV C9 | O | UV bit 1 to FM2 |
| 19 | YUV C8 | O | UV bit 0 to FM2 |
| 20 | CK | I | Master clock,nominal 27 or 32 MHz |
| 21 | VSS 3 | G | Ground 3 |
| 22 | VDD 3 | S | Supply voltage 3 |
| 23 | WE2 | O | Write enable to FM2 |
| 24 | RE2 | O | Read enable to FM2 |
| 25 | YUV B8 | I | UV bit 0 from FM2 |
| 26 | YUV B9 | I | UV bit 1 from FM2 |
| 27 | YUV B10 | I | UV bit 2 from FM2 |
| 28 | YUV B11 | I | UV bit 3 from FM2 |
| 29 | YUV B0 | I | Y bit 0 from FM2 |
| 30 | YUV B1 | I | Y bit 1 from FM2 |
| 31 | YUV B2 | I | Y bit 2 from FM2 |
| 32 | YUV B3 | I | Y bit 3 from FM2 |
| 33 | VDD 4 | S | Supply voltage 4 |
| 34 | VSS 4 | G | Ground 4 |
| 35 | YUV B4 | I | Y bit 4 from FM2 |
| 36 | YUV B5 | I | Y bit 5 from FM2 |
| 37 | YUV B6 | I | Y bit 6 from FM2 |
| 38 | YUV B7 | I | Y bit 7 from FM2 |
| 39 | RE | I | Master read enable |
| 40 | VD | I | Field frequent reset, vertical display |
| 41 | HD | I | Horizontal reference signal |
| 42 | YUV D8 | O | UV bit 0 |
| 43 | YUV D9 | O | UV bit 1 |
| 44 | YUV D10 | O | UV bit 2 |
| 45 | VDD 5 | S | Supply voltage 5 |
| 46 | VSS 5 | G | Ground 5 |
| 47 | YUV D11 | O | UV bit 3 |
| 48 | YUV D0 | O | Y bit 0 |
| 49 | YUV D1 | O | Y bit 1 |
| 50 | YUV D2 | O | Y bit 2 |

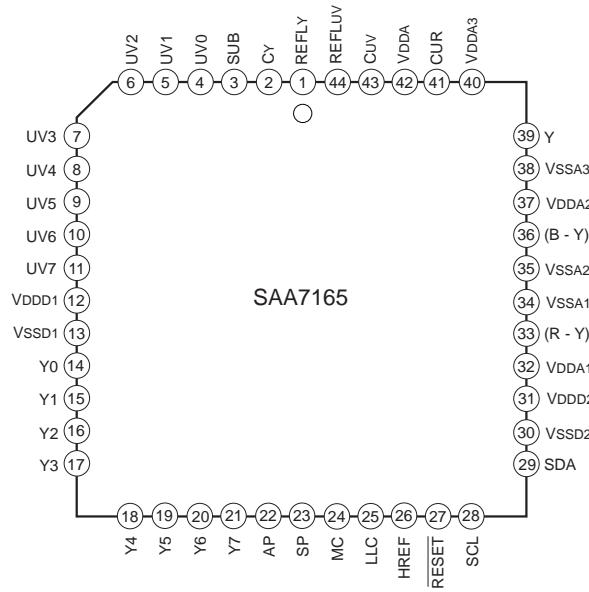
| Pin No. | Pin Name | TYPE | Pin Function |
|---------|----------|------|---|
| 51 | VDD 6 | S | Supply voltage 6 |
| 52 | VSS 6 | G | Ground 6 |
| 53 | YUV D3 | O | Y bit 3 |
| 54 | YUV D4 | O | Y bit 4 |
| 55 | YUV D5 | O | Y bit 5 |
| 56 | YUV D6 | O | Y bit 6 |
| 57 | YUV D7 | O | Y bit 7 |
| 58 | VDD 7 | S | Supply voltage 7 |
| 59 | VSS 7 | G | Ground 7 |
| 60 | SNRST | I | Field frequent reset from microcontroller;reset for SNERT interface |
| 61 | SNDA | I/O | Data for SNERT interface |
| 62 | SNCL | I | Clock for SNERT interface |
| 63 | AUX | O | Spre output form line-sequencer |
| 64 | Ho | O | Output hold to e.g.LC.display |
| 65 | NC | - | Not connected |
| 66 | NC | - | Not connected |
| 67 | YUV A7 | I | Y bit 7 from FM1 |
| 68 | YUV A6 | I | Y bit 6 from FM1 |
| 69 | YUV A5 | I | Y bit 5 from FM1 |
| 70 | YUV A4 | I | Y bit 4 from FM1 |
| 71 | YUV A3 | I | Y bit 3 from FM1 |
| 72 | YUV A2 | I | Y bit 2 from FM1 |
| 73 | VSS 8 | G | Ground 8 |
| 74 | VDD 8 | S | Supply voltage 8 |
| 75 | YUV A1 | I | Y bit 1 from FM1 |
| 76 | YUV A0 | I | Y bit 0 from FM1 |
| 77 | YUV A11 | I | UV bit 3 from FM1 |
| 78 | YUV A10 | I | UV bit 2 from FM1 |
| 79 | YUV A9 | I | UV bit 1 from FM1 |
| 80 | YUV A8 | I | UV bit 0 from FM1 |

■ ASAA7165WP

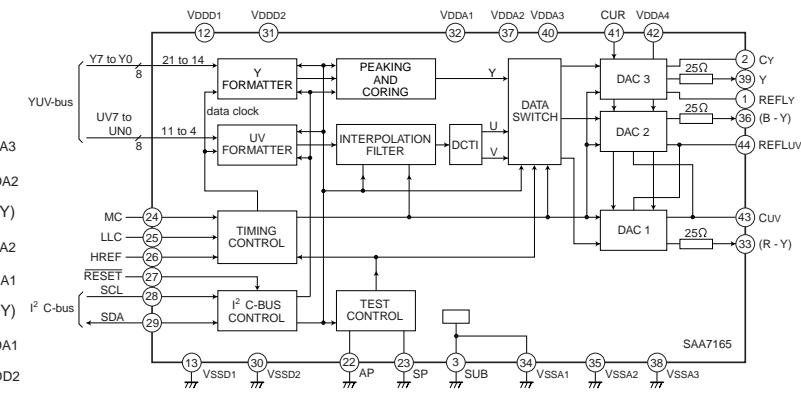
(PROGRESSIVE BLOCK : IC4702)

VIDEO ENHANCEMENT D/A

● Pin Assignment



● Block Diagram



● Pin Function

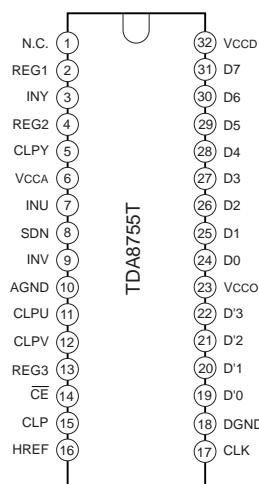
| PIN NO. | PIN NAME | PIN FUNCTION |
|---------|----------|--|
| 1 | REFL Y | Low reference of luminance DAC (connected to VSS A1) |
| 2 | CY | Capacitor for luminance DAC (high reference) |
| 3 | SUB | Substrate (connected to VSS A1) |
| 4 | UV0 | UV signal input bit UV7 (digital colour-difference signal) |
| 5 | UV1 | UV signal input bit UV6 (digital colour-difference signal) |
| 6 | UV2 | UV signal input bit UV5 (digital colour-difference signal) |
| 7 | UV3 | UV signal input bit UV4 (digital colour-difference signal) |
| 8 | UV4 | UV signal input bit UV3 (digital colour-difference signal) |
| 9 | UV5 | UV signal input bit UV2 (digital colour-difference signal) |
| 10 | UV6 | UV signal input bit UV1 (digital colour-difference signal) |
| 11 | UV7 | UV signal input bit UV0 (digital colour-difference signal) |
| 12 | VDD D1 | +5V digital supply voltage 1 |
| 13 | VSS D1 | Digital ground 1(0 V) |
| 14 | Y0 | Y signal input bit Y7 (digital luminance signal) |
| 15 | Y1 | Y signal input bit Y6 (digital luminance signal) |
| 16 | Y2 | Y signal input bit Y5 (digital luminance signal) |
| 17 | Y3 | Y signal input bit Y4 (digital luminance signal) |
| 18 | Y4 | Y signal input bit Y3 (digital luminance signal) |
| 19 | Y5 | Y signal input bit Y2 (digital luminance signal) |
| 20 | Y6 | Y signal input bit Y1 (digital luminance signal) |
| 21 | Y7 | Y signal input bit Y0 (digital luminance signal) |
| 22 | AP | Connected to ground (action pin for testing) |
| 23 | SP | Connected to ground (shift pin for testing) |
| 24 | MC | Data cloack CREF(e.g.13.5MHz);at MC=HIGH,the LLC driver-by-two is inactive |
| 25 | LLC | Line-locked clock signal(LL27=27MHz) |
| 26 | HREF | Data clock for YUV data inputs (for active line 768Y or 640Y long) |
| 27 | RESET | Reset input (active LOW) |
| 28 | SCL | I ² C-bus clock line |
| 29 | SDA | I ² c-bus data line |
| 30 | VSS D2 | Digital ground 2(0V) |
| 31 | VDD D2 | +5V digital supply voltage 2 |
| 32 | VDD A1 | +5V analog supply voltage for buffer of DAC 1 |
| 33 | (R-Y) | ±(R-Y)output signal (analog signal) |
| 34 | VSS A1 | Analog ground 1(0V) |
| 35 | VSS A2 | Analog ground 2(0V) |
| 36 | (B-Y) | ±(B-Y)output signal (analog colour-difference signal) |
| 37 | VDD A2 | +5V analog supply voltage for buffer of DAC 2 |
| 38 | VSS A2 | Analog ground 3 (0V) |
| 39 | Y | Y output signal(analog luminance signal) |
| 40 | VDD A3 | +5V analog supply voltage for buffer of DAC 3 |
| 41 | CUR | Current input for analog output buffers |
| 42 | VDD A4 | Supply and reference voltage for the three DAC S |
| 43 | C UV | Capacitor for chrominance DAC S(high reference) |
| 44 | REF L UV | Low reference of chrominance DAC S(connected to VSS A1) |

■ TDA8755T

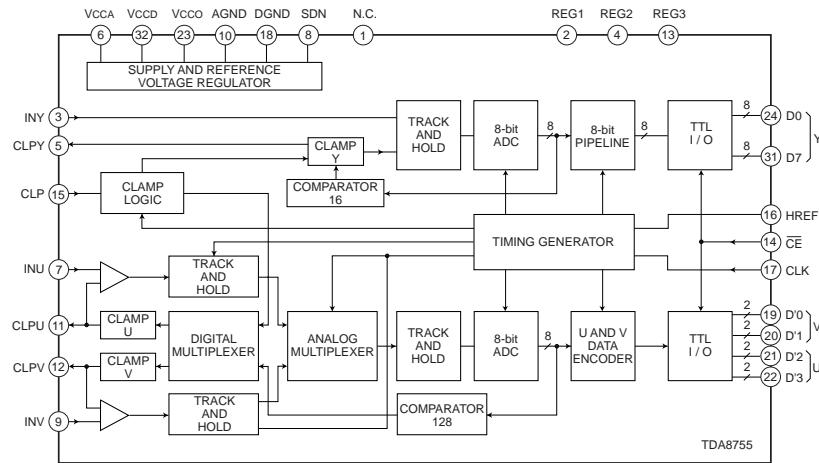
(PROGRESSIVE BLOCK : IC4703)

VIDEO A/D CONVERTER

● Pin Assignment



● Block Diagram



● Pin Function

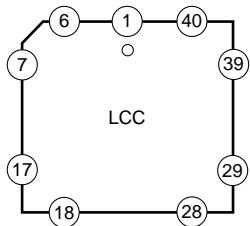
| PIN NO. | PIN NAME | PIN FUNCTION |
|---------|----------|---|
| 1 | NC | Not connected |
| 2 | REG1 | Decoupling input (internal stabilization loop decoupling) |
| 3 | INY | Y analog voltage input |
| 4 | REG2 | Decoupling input (internal stabilization loop decoupling) |
| 5 | CLPY | Y clamp capacitor connection |
| 6 | VCC A | Analog positive supply voltage (+5V) |
| 7 | INU | U analog voltage input |
| 8 | SDN | Stabilizer decoupling node and analog reference voltage (+3.35 V) |
| 9 | INV | V analog voltage input |
| 10 | AGND | Analog ground |
| 11 | CLPU | U clamp capacitor connection |
| 12 | CLPV | V clamp capacitor connection |
| 13 | REG3 | Decoupling input (internal stabilization loop decoupling) |
| 14 | CE | Chip enable input(TTL level input active LOW) |
| 15 | CLP | Clamp control input |
| 16 | HREF | Horizontal reference signal |
| 17 | CLK | Clock input |
| 18 | DGND | Digital ground |
| 19 | D`0 | V data output; bit 0(n-1) |
| 20 | D`1 | V data output; bit 1(n) |
| 21 | D`2 | U data output; bit 0(n-1) |
| 22 | D`3 | U data output; bit 1(n) |
| 23 | VCC O | Positive supply voltage for output stages (+5V) |
| 24 | D0 | Y data output; blt 0(LSB) |
| 25 | D1 | Y data output; blt 1 |
| 26 | D2 | Y data output; blt 2 |
| 27 | D3 | Y data output; blt 3 |
| 28 | D4 | Y data output; blt 4 |
| 29 | D5 | Y data output; blt 5 |
| 30 | D6 | Y data output; blt 6 |
| 31 | D7 | Y data output; blt 7(MSB) |
| 32 | VCC D | Digital positive supply voltage (+5V) |

■ PE6001A9

(PROGRESSIVE BLOCK : IC4720)

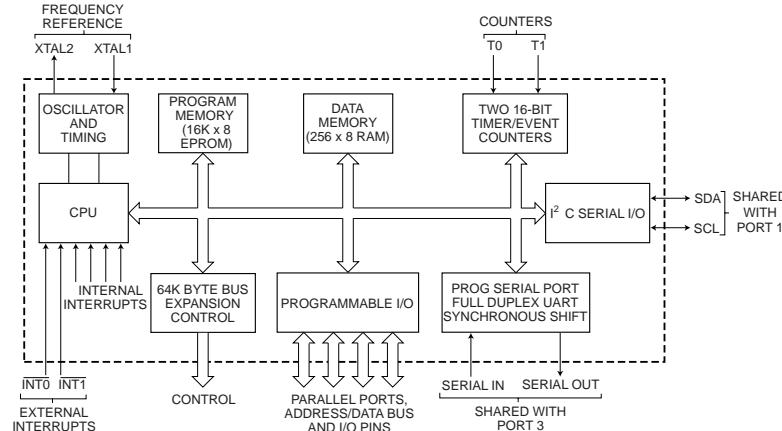
PROGRESSIVE ONE TIME μ-COM

● Pin Assignment

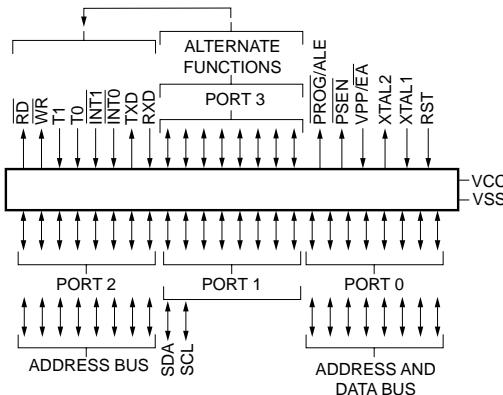


| Pin | Function | Pin | Function |
|-----|-----------|-----|----------|
| 1 | N.C. | 23 | NC8 |
| 2 | P1.0 | 24 | P2.0/A8 |
| 3 | P1.1 | 25 | P2.1/A9 |
| 4 | P1.2 | 26 | P2.2/A10 |
| 5 | P1.3 | 27 | P2.3/A11 |
| 6 | P1.4 | 28 | P2.4/A12 |
| 7 | P1.5 | 29 | P2.5/A13 |
| 8 | P1.6/SCL | 30 | P2.6/A14 |
| 9 | P1.7/SDA | 31 | P2.7/A15 |
| 10 | RST | 32 | PSEN |
| 11 | P3.0/RXD | 33 | ALE/PROG |
| 12 | NC8 | 34 | NC8 |
| 13 | P3.1/TxD | 35 | EA/VPP |
| 14 | P3.2/INT0 | 36 | P0.7/AD7 |
| 15 | P3.3/INT1 | 37 | P0.6/AD6 |
| 16 | P3.4/T0 | 38 | P0.5/AD5 |
| 17 | P3.5/T1 | 39 | P0.4/AD4 |
| 18 | P3.6/WR | 40 | P0.3/AD3 |
| 19 | P3.7/RD | 41 | P0.2/AD2 |
| 20 | XTAL2 | 42 | P0.1/AD1 |
| 21 | XTAL1 | 43 | P0.0/AD0 |
| 22 | VSS | 44 | VCC |

● Block Diagram



● LOGIC

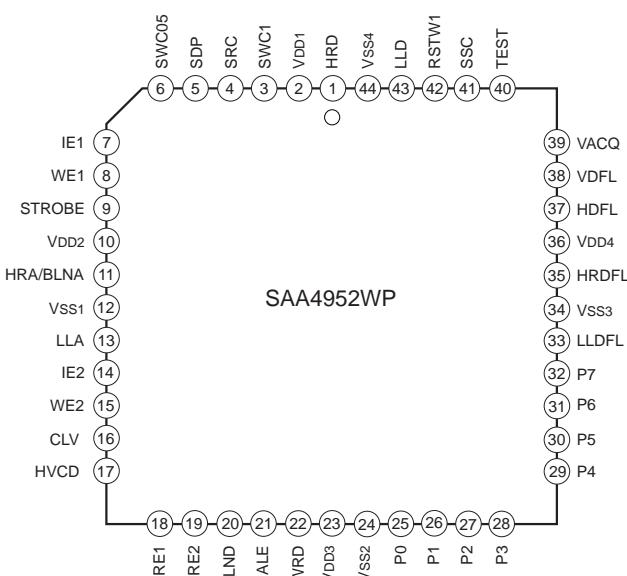


■ SAA4952WP

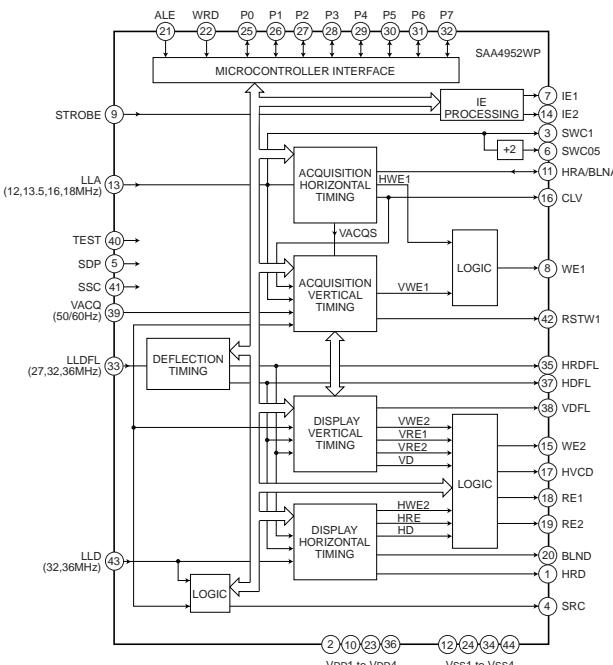
(PROGRESSIVE BLOCK : IC4704)

MEMORY OCONTROLER

● Pin Assignment



● Block Diagram



● Pin Function

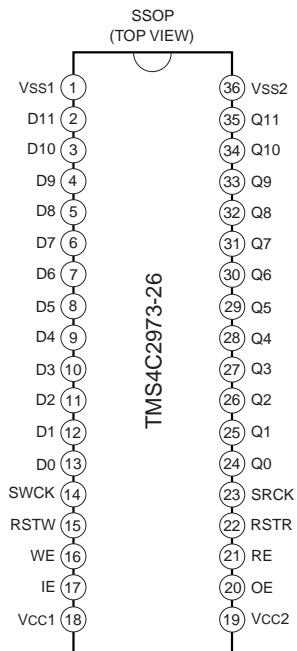
| Pin No. | Pin Name | TYPE | Pin Function |
|---------|----------|------|---|
| 1 | HRD | O | Horizontal reference signal output (display PLL) |
| 2 | VDD 1 | S | Supply voltage 1 |
| 3 | SWC1 | O | Serial write clock output for memory 1 |
| 4 | SRC | O | Serial read clock output |
| 5 | SDP | I | Select deflection processor input |
| 6 | SWC05 | O | Serial write clock output, SWC1 divided-by-2 |
| 7 | IE1 | O | Input enable signal output (memory 1) |
| 8 | WE1 | O | Write enable signal output (memory 1) |
| 9 | STROBE | I | Strobe signal input |
| 10 | VCC 2 | S | Supply voltage 2 |
| 11 | HRA/BLNA | I/O | Horizontal reference signal output (acquisition part)/horizontal blanking signal input, reset for horizontal acquisition counters(acquisition part) |
| 12 | VSS 1 | - | Ground 1 |
| 13 | LLA | I | Line-locked cloack signal input (acquisition part) |
| 14 | IE2 | O | Input enable signal output (memory 2) |
| 15 | WE2 | O | Write enable signal output (memory 2) |
| 16 | CLV | O | Horizontal signal output (acquisition part) |
| 17 | HVCD | O | Horizontal,vertical or composite blanking signal output (display part) |
| 18 | RE1 | O | Read enable signal output (memory 1) |
| 19 | RE2 | O | Read enable signal output (memory 2) |
| 20 | BLND | O | Horizontal branking signal output (display part) |
| 21 | ALE | I | Address latch enable signal input |
| 22 | WRD | I | Wrirw/read data signal input |
| 23 | VCC 2 | S | Supply voltage 3 |
| 24 | VSS 2 | - | Ground 2 |
| 25 | P0 | I/O | Data input/output signal bit 0 |
| 26 | P1 | I/O | Data input/output signal bit 1 |
| 27 | P2 | I/O | Data input/output signal bit 2 |
| 28 | P3 | I/O | Data input/output signal bit 3 |
| 29 | P4 | I/O | Data input/output signal bit 4 |
| 30 | P5 | I/O | Data input/output signal bit 5 |
| 31 | P6 | I/O | Data input/output signal bit 6 |
| 32 | P7 | I/O | Data input/output signal bit 7(MSB = Most Significant Bit) |
| 33 | LLDFL | I | Line-locked clock signal input (deflection part) |
| 34 | VSS 3 | - | Ground 3 |
| 35 | HRDFL | O | Horizontal reference signal output (deflection part) |
| 36 | VDD 4 | S | Supply voltage 4 |
| 37 | HDFL | O | Horizontal synchronization signal output (deflection part) |
| 38 | VDFL | O | Vertical synchronization signal output (deflection part) |
| 39 | VACQ | I | Vertical synchronization signal input (deflection part) |
| 40 | TEST | I | Test input |
| 41 | SSC | I | Select signal clock system input |
| 42 | RSTW1 | O | Reset write signal output (memory 1) |
| 43 | LLD | I | Line-locked clock signal input (display part) |
| 44 | VSS 4 | - | Ground 4 |

■ TMS4C2973-26

(PROGRESSIVE BLOCK : IC4705)

2.9M Field Memory

● Pin Assignment



● Pin Function

| Pin Name | Pin Function |
|----------|---------------------------|
| IE | Input enable |
| WE | Line enable |
| SWCK | Serial write clock |
| RSTW | Reset write |
| D 0-11 | Data input |
| OE | Output enable |
| RE | Read enable |
| SRCK | Serial read clock |
| RSTR | Reset read |
| Q 0-11 | Data output |
| Vcc 1, 2 | 3.3V power supply voltage |
| Vss 1, 2 | Ground |

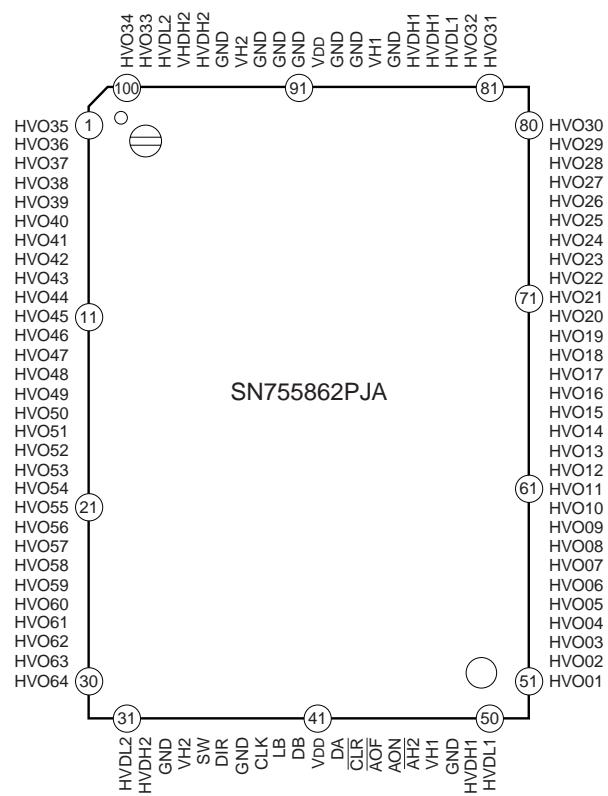
■ SN755862PJA

(SCAN A ASS'Y : IC7709)

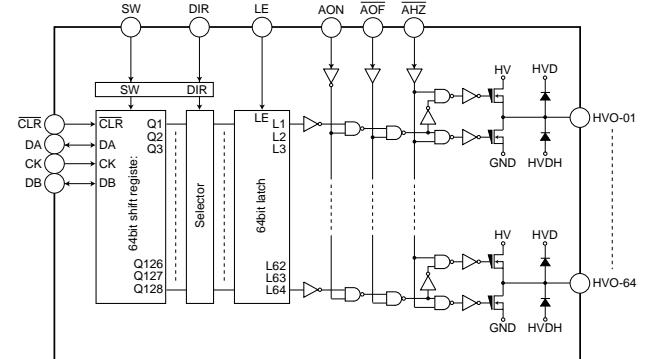
SCAN IC

● Pin Assignment

TOP VIEW



● Block Diagram

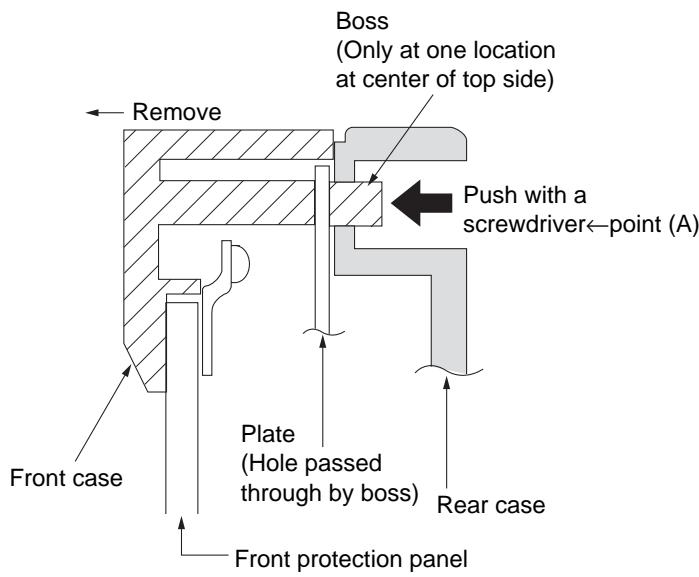
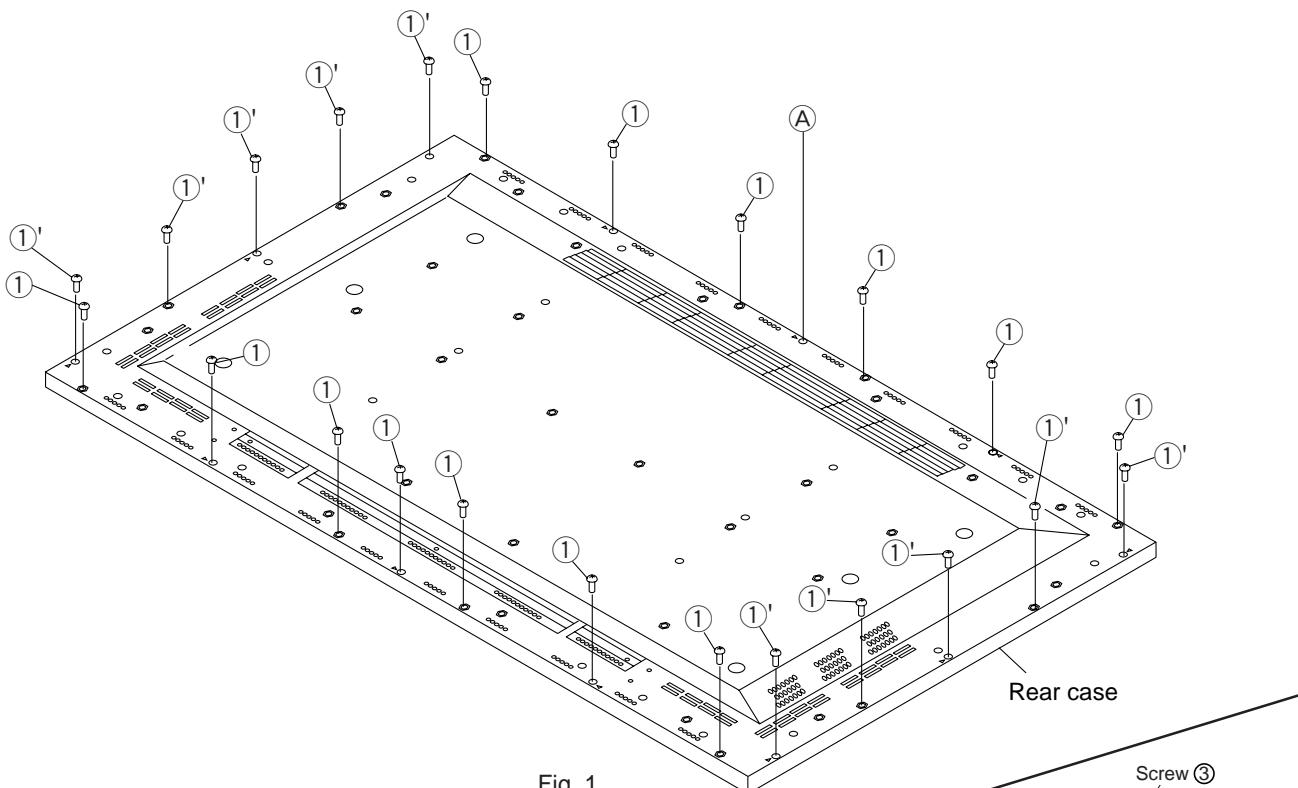


7.2 Diagnosis

7.2.1 Disassembly

1. Removing the Front Case

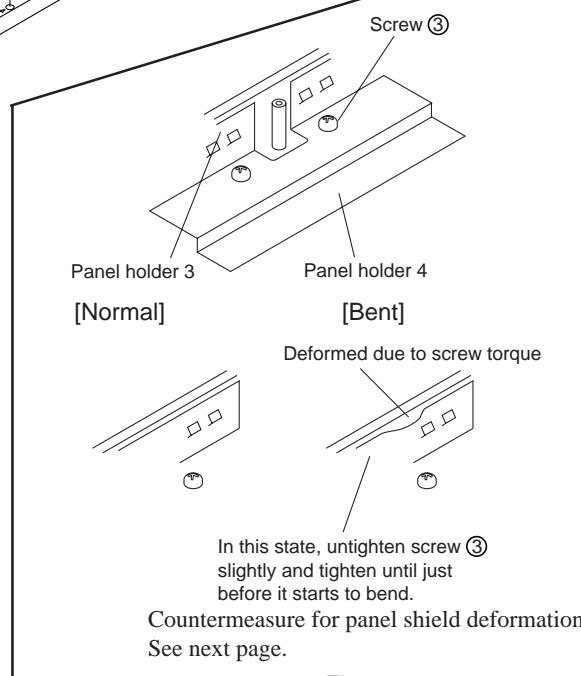
- 1) Set the unit on the stand in the secured upright position.
- 2) Remove the screws ① at the outermost circumference of the rear case. Ignore the marks and remove all 23 screws (Note 2) on the outermost circumference. (Fig. 1)
- 3) With screws ① removed, only the front case can be detached from the unit by pulling out the front case forward.



Note 1) Do not remove screws other than the screws ① on the outermost circumference as they secure the rear case in place.

Note 2) In some models, BMZ40P120FMC screws will be used for screw ①' instead of BPZ40P160FZK which is used for screw ①.

Note 3) The front case may be difficult to remove at point A at the center of the upper side of the rear case because the boss of the front case is passed through the plate hole as shown in Fig. 2 and joined to the rear case. In such cases, push the tip of the boss with a screwdriver to release the front case from the rear case.



2. Removing the Front Protection Panel (Fig. 3, Fig. 4)

- 1) Remove all screws ② and ④ inside the front case.
Be careful not to remove screws ⑤ (two at the bottom) and screws ⑥ (three at the top) because they are used for securing the aluminum sash.
 - 2) Remove all panel shields 1 and 3 and panel holders 2 and 4.
 - 3) Remove and replace the front protection panel.
 - 4) Attach the protection panel by attaching to the bottom left side first, and then attach the front case assembly in the reverse procedure of the above.

When securing the front case to the unit, attach the two bosses ⑩ (one each on the two edges of the top) as a guide so that the boss at the center ⑪ passes through the hole on the rear case.

Note)

When attaching the panel shield and panel holder after replacing the protection panel, the panel shield may deform when tightening the screws ③ as shown in Fig. 4. If it deforms, untighten screws ③ slightly and tighten until just before it starts to bend.

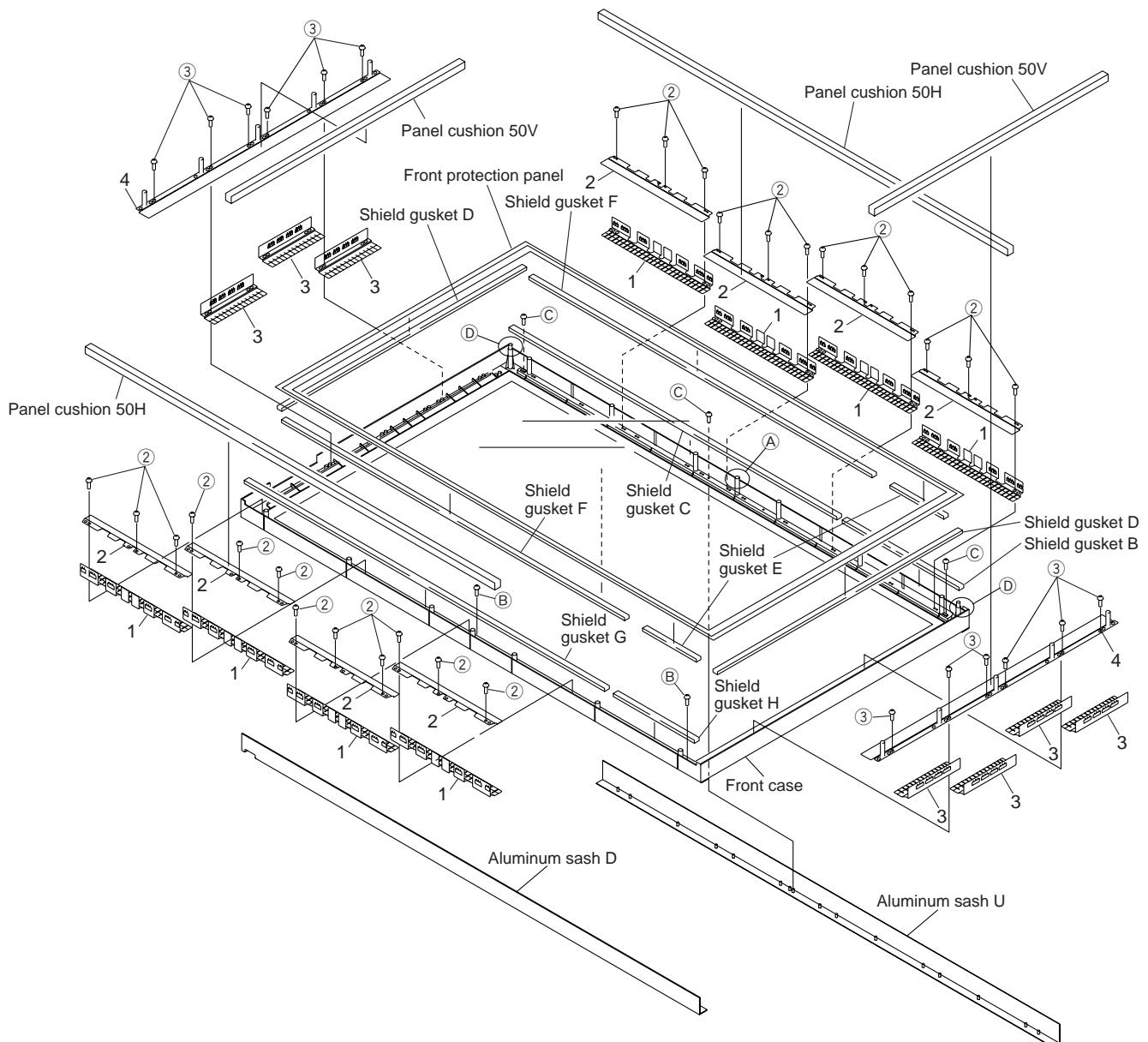
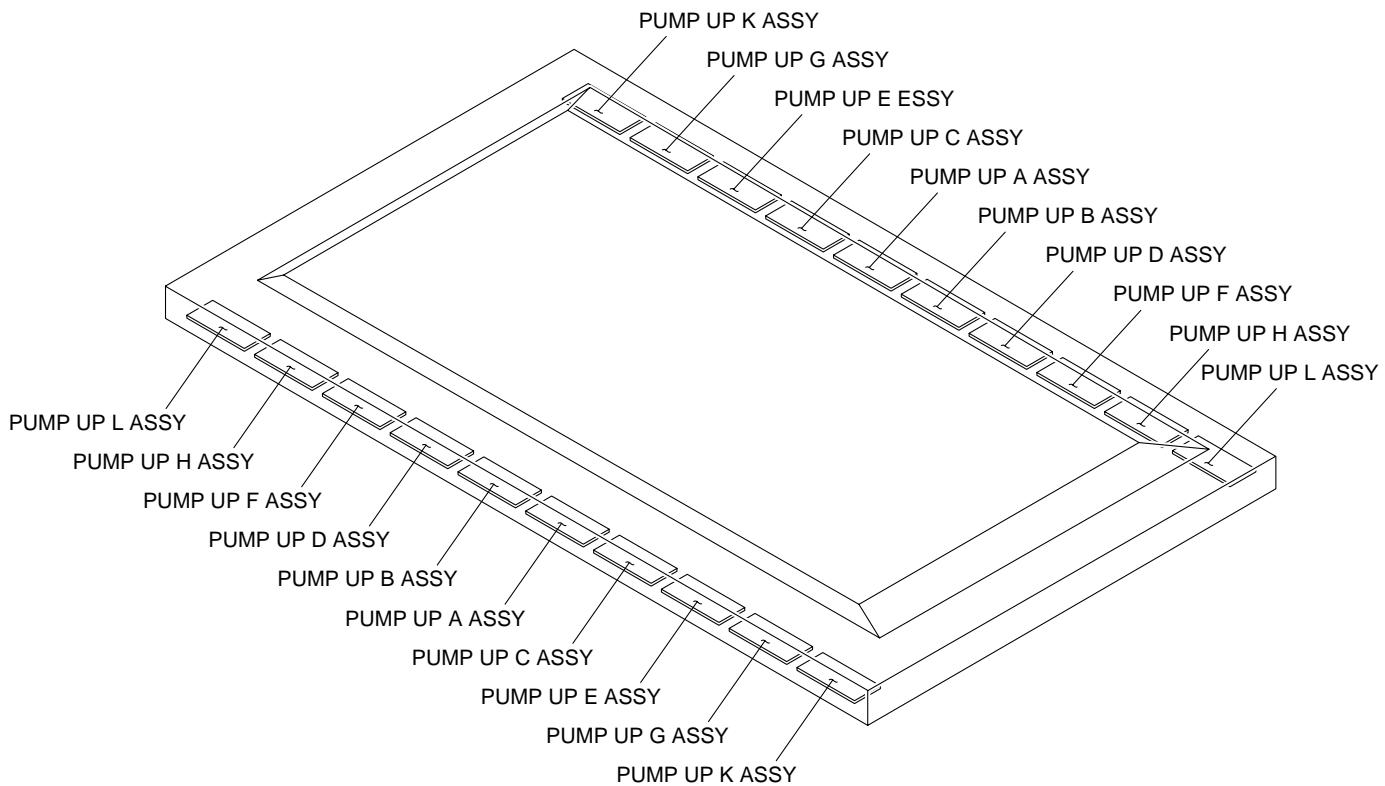
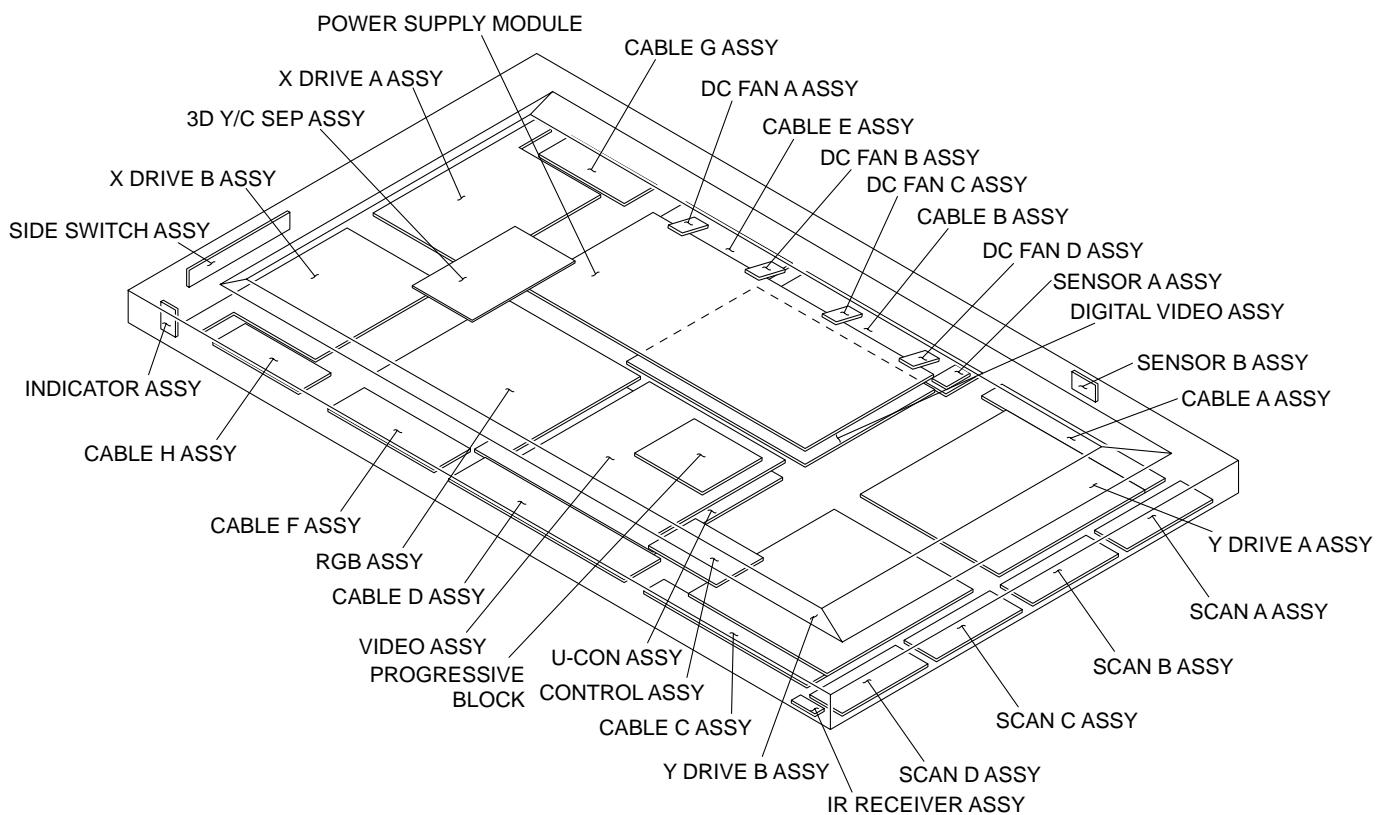


Fig. 3

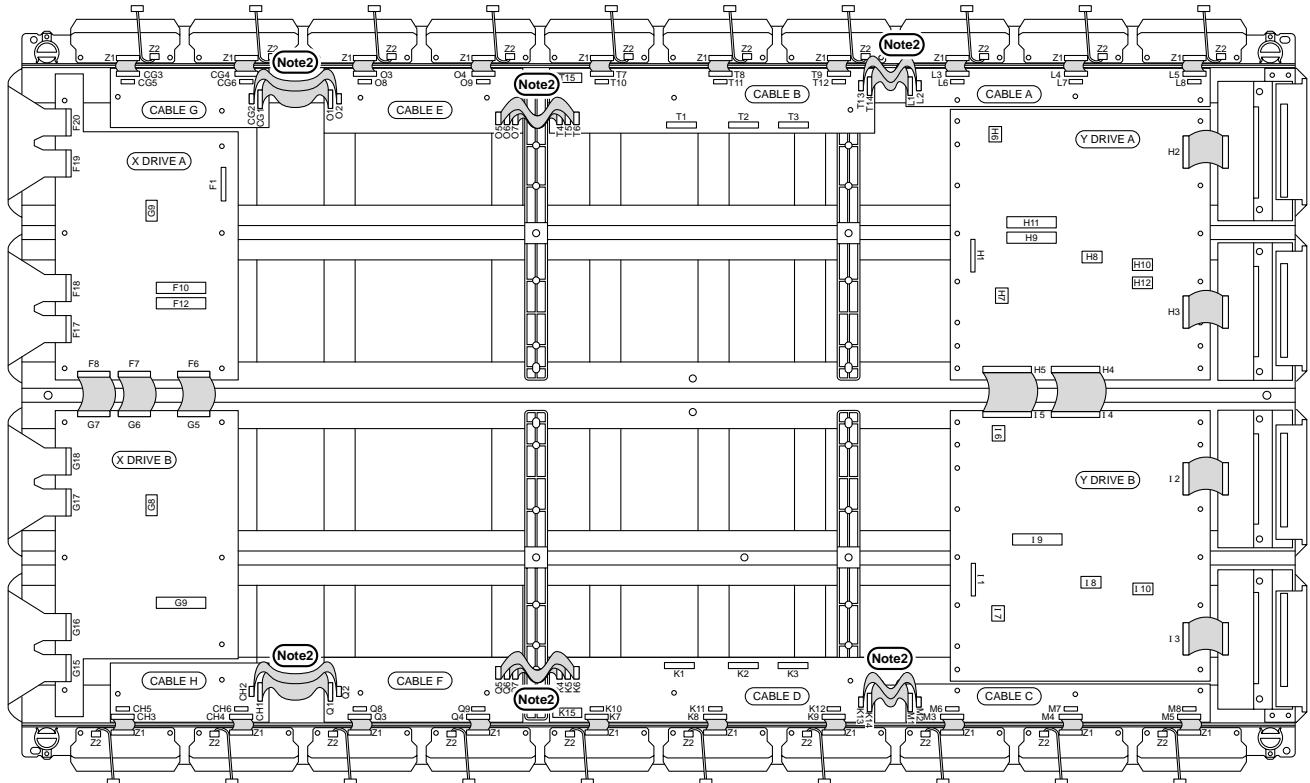
7.2.2 Circuit Boards Location



7.2.3 Wiring

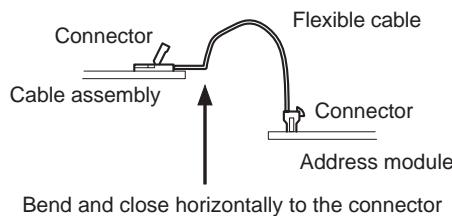
Note: When forming the wire cables, be careful not to exert excessive pressure on the cables as this will result in the disconnection of the connector.

Form the cables from the address module inside the module.



Note 1

Bend the flexible cable between the address module and the cable assembly at the cable assembly side, and close the cover.
(To prevent damage of cover.)



Note 2

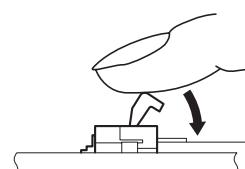
Bend the base of the flexible cable to form into a M shape.
(To prevent contact with terminal panel and fan.)
(To prevent sub field noise.)



Press-down type lower contact connector

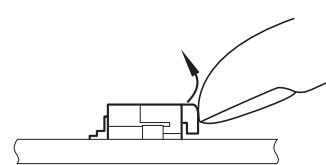
1. Locking

Lock applying force in the arrow direction so that the connector is pressed down inside.



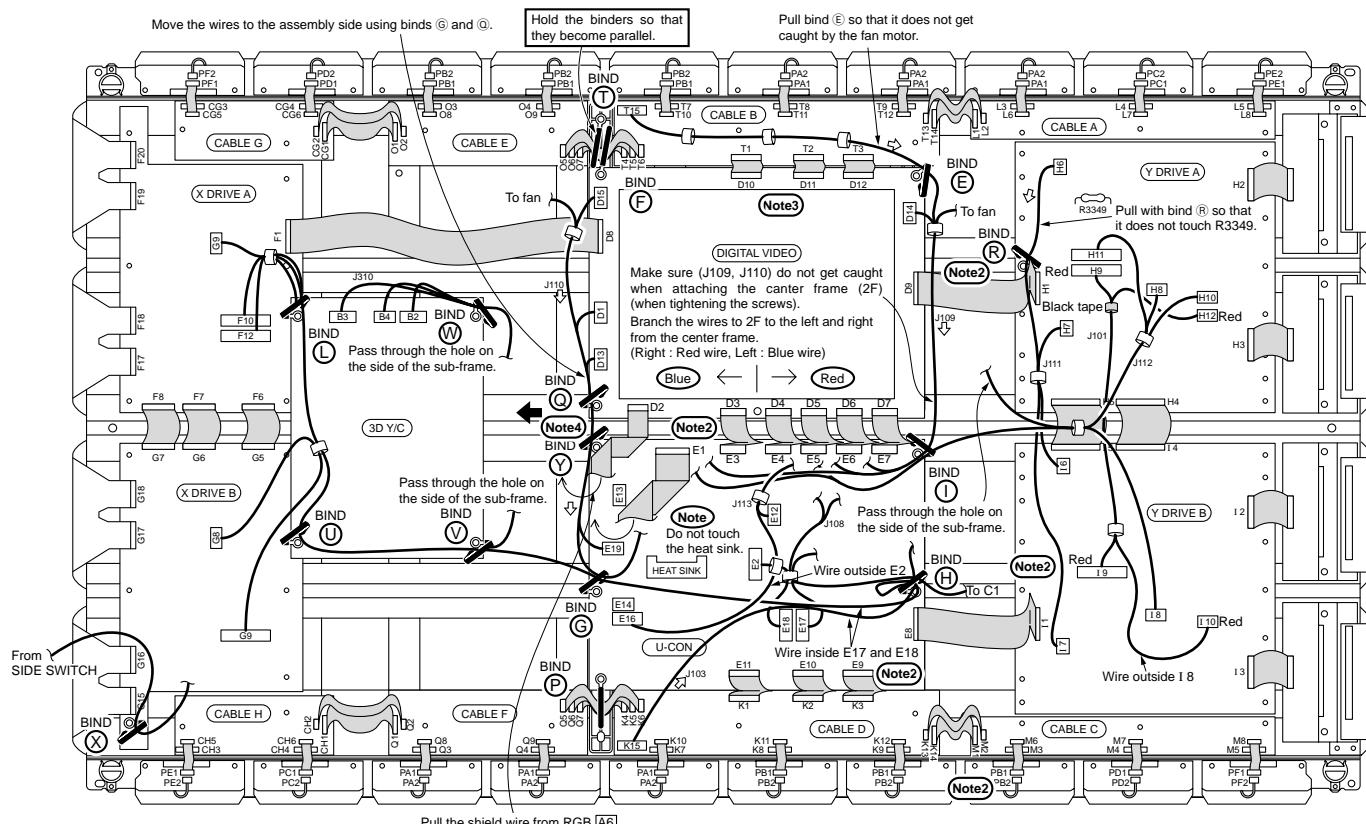
2. Unlocking

Push up with your nail, or something soft.
Thin tools such as the tip of screwdrivers will damage the electrode, and are forbidden to use.



PDP-501MX, PDP-V501X

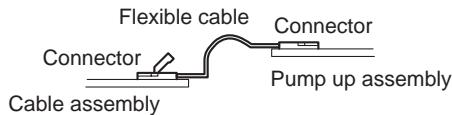
Note: Form the cables from the address module without touching the long leads of the pump up assembly as much as possible.



Note 1

Bend the flexible cables between the pump up assembly and the cable assembly side at the cable assembly side, and close the cover.

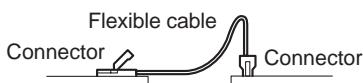
(To prevent the damage of the cover.)



Note 2

Bend the flexible cable.

(To prevent touching the frame.)



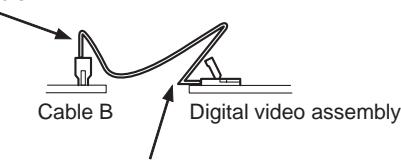
Note 3

Bend the flexible cable.

(To prevent touching the fan.)

Bend at the blue line

of the flexible cable.



Bend at the blue line of the flexible cable.

• Bind ⑧ (AEP-215)

Pull in the \Rightarrow direction so that J111 does not touch R3349, and bind.

• Bind ① (AEP-215)

Pull J109 and J112 in the \Rightarrow direction, and bind.

• Bind ⑩ (AEP-215)

Bind the J310.

• Bind ⑤ (AEP-215)

Pull in the \Rightarrow direction so that the wire of J109 to T15 does not touch the fan, and bind.

• Bind ⑥, ⑦, ⑨ (AEP-215)

Pull J110 in the \Rightarrow direction, and bind.

• Bind ⑪ (AEP-215)

Pull J110 and J103 in the \Rightarrow direction, and bind.

• Bind ⑫ (AEP-215)

Bind the T (AEC-826)

Secure the flexible cable so that it does not touch the fan.

• Bind ⑬ (AEC-826)

Secure the flexible cable to distance from the 2F assembly.

(To prevent sub field noise.)

• Bind ⑭, ⑮ (AEP-215)

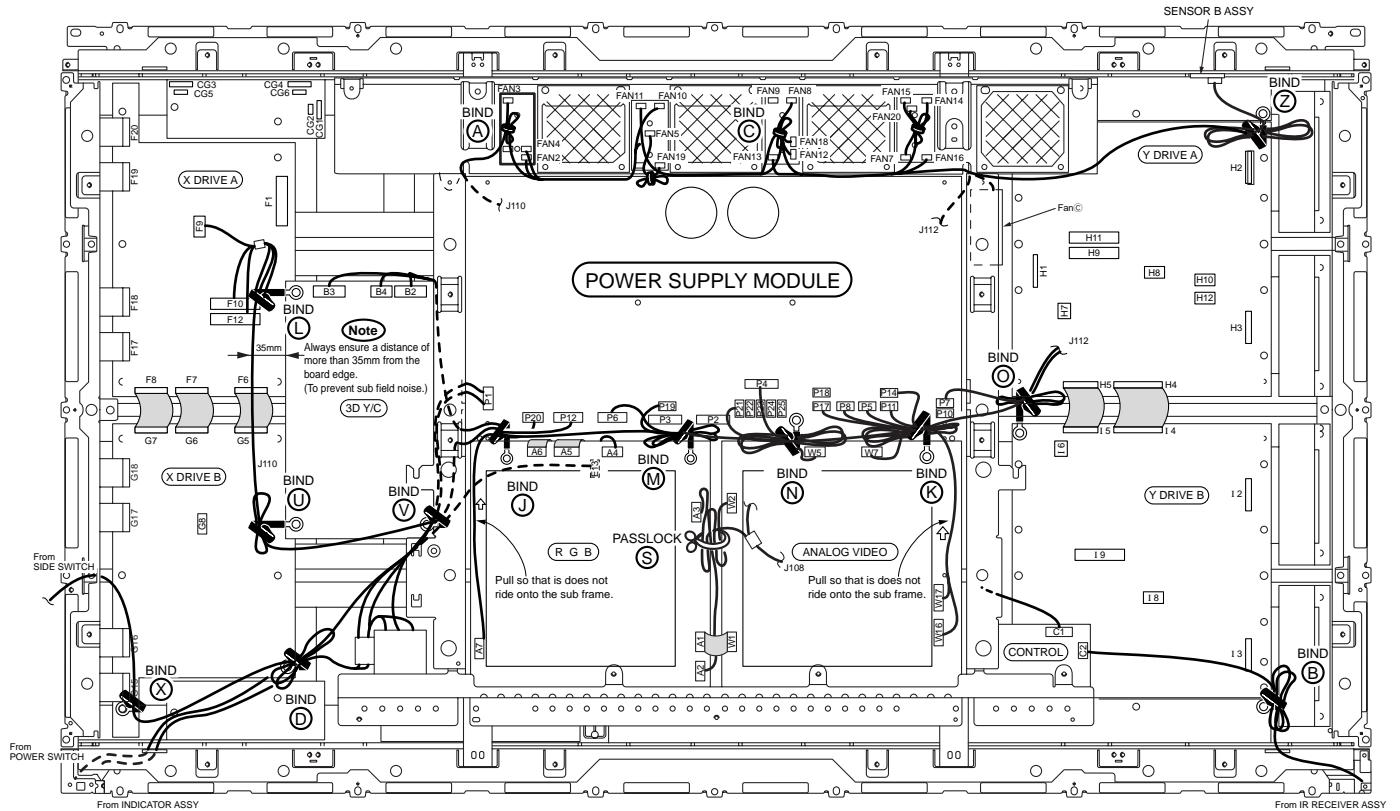
Pull J110 in the \Rightarrow direction and bind.

Bind ⑭ and ⑮ is temporary secure.

Note 4:

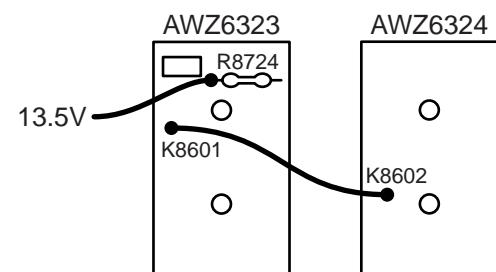
Pull the shield wires to D1 in the arrow direction (\leftarrow) so that they are away from the panel shield and bind with binds ⑯ and ⑰ along the board as much as possible.

(To prevent sub field noise)



- Bind ① (AEP-215)
Bind the extra length of the cable to P6 and P10.
- Bind ② (AEP-215)
Bind the extra length of the cable to P3 and P19 and from the 3D Y/C ASSY.
Form the cable to P6 away from the cable to A4 and bind (not bundle).
- Bind ③ (AEP-215)
Bind the extra length of the cable to P2, P21, P22, P4, P18, and B5.
Also bind (not bundle) the cable from bind M.
- Bind ④ (AEP-215)
Bind the extra length of the cable to P17, P8, P5, P11, P14, and B7.
Also bind (not bundle) the cable from bind N.
- Bind ⑤ (AEP-215)
Bind the cable to P12 and P20 and from the 3D Y/C ASSY away from the cable to A4.
- Bind ⑥ (AEP-215)
Bind the extra length of the cables from the power SW and INDICATOR assembly.

- Bind ⑦ (AEP-215)
Bind the extra length of the cable from the IR RECEIVER ASSY.
- Bind ⑧ (AEP-215)
Bind the cable from the SIDE SWITCH.
- Bind ⑨ (AEP-215)
Bind the extra length of the cable to SENSOR B ASSY.
- Bind ⑩ (AEP-215)
Bind the extra length of the wire of J110 to P12.
- Bind ⑪ (AEP-215)
Bind the POWER switch wire, J110, and the extra length of the ground wire.
- Bind ⑫ (AEC-093)
Bind the extra length of the J110 and J311 wires from 1F, and bind them to the other fan wires.
- Bind ⑬ (AEC-093)
Bind the extra length of the J112 wires from 1F and wire from fan ⑭. and bind them to the other fan wires.



7.2.4. Troubleshooting

1. Power indicator LED states

Problems can be easily diagnosed by the power indicator (LED) states of the display of the unit.

| | Display LED State | State |
|----|--------------------------------|--|
| 1. | Lit in green | Normally power ON Display PD Note 1) (Not remote controlled) |
| 2. | Off | Display AC OFF |
| 3. | Lit in red | <ul style="list-style-type: none"> • Power off by remote control • Auto power OFF • When internal temperature is high |
| 4. | Blinking in red 0.5/0.5 sec | Display PD |
| 5. | Off | AC OFF of the display |

Note 1) The LED may blink in green instead of red according to the PD timing or where PD occurs.

2. Abnormal Power Off Circuit

This unit comes equipped with various protection circuits. When these protection circuit operates, P.D. (Power Down) operates to turn off the relay (RL1) inside the POWER SUPPLY MODULE. And turn off the power of the unit.

- X DRIVE (A) /(B) assembly
 - 1) PD due to the over-current detection of the X drive power supply VCP+12V
 - 2) PD due to the over-current detection of the X drive (+) reset circuit
- Y DRIVE (A) /(B) assembly
 - 1) PD due to the over-current detection of the Y drive power supply VCP+12V
 - 2) PD due to the over-current detection of the Y drive (-) reset circuit
 - 3) PD due to the over-voltage detection of the Y drive D-D converter output VH150V
 - 4) PD due to the over-current detection of the Y drive D-D converter output VH150V
- POWER SUPPLY MODULE
 - 1) PD due to the over-current detection of the large power supply (VSUS+175V, VOFS+150V, VCSP+40V, VRN-190V, VADR+30V).
 - 2) PD due to the over-voltage detection of the large power supply (VSUS+175V, VCSP+40V, VRN-190V, VADR+30V)
 - 3) PD due to the over-current detection of the small signal power supply (+12V, +5V, +3.3V)
 - 4) PD due to the over-voltage detection of the small signal power supply (+12V, +5V, +3.3V)

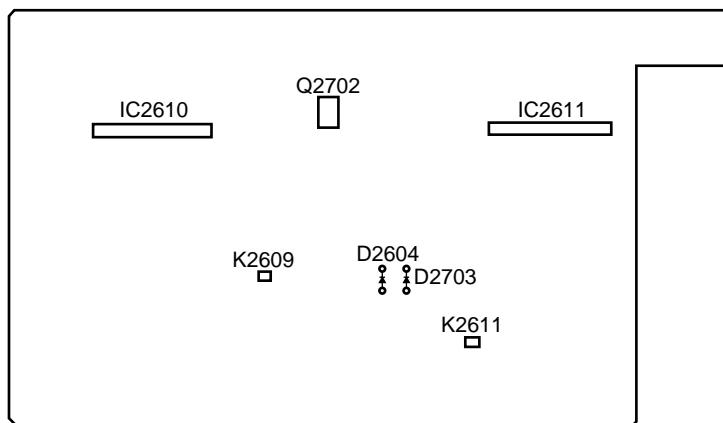
Note) +5V is supplied to K2609 and K3109 of the PD terminal of each drive assembly when drive assembly PD occurs.

3. Diagnosis of Malfunctions when Power Down (PD) Occurs

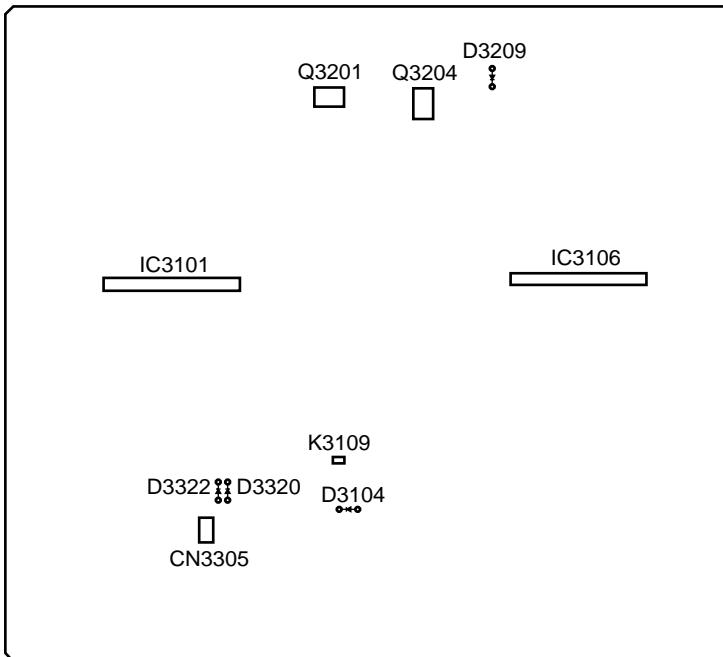
| ASSY Name | TP NO. | +5V Generation Point | Operating PD | Faulty Point |
|----------------------------------|---|--|---|--|
| X DRIVE(A)ASSY X DRIVE(B)ASSY | When K2609 is H | D2604 anode D2703 anode | VCP+12V over-current (+) reset circuit over-current | <ul style="list-style-type: none"> Pulse module IC2610, IC2611 peripheral circuit (+) reset circuit Q2702 peripheral circuit Q2702G-S signal XPR-U signal terminal K2611 (5V amplitude) |
| | | D3104 anode D3209 anode D3320 anode (YA) D3310 anode (YB) | VCP+12V over-current (-) reset circuit over-current VH150V over-current | <ul style="list-style-type: none"> Pulse module IC3101, IC3106 peripheral circuit Ysus_MSK FET-Q3206-Q3209 peripheral circuit Csp_MSK FET-Q3005-Q3006 peripheral circuit Scan assembly internal bypass FET Q7701, Q7702 peripheral circuit YNR_D output FET Q3204 peripheral circuit YNR_U output FET Q3201 peripheral circuit Q3204 G-S control signal Q3201 G-S control signal YNR_D signal terminal K3117 YNR_U signal terminal K3118 D-D converter circuit mis-operations |
| Y DRIVE(A)ASSY Y DRIVE(B)ASSY | When K3109 is H | D3322 anode (YA) D3324 anode (YB) | VH150V over-current | <ul style="list-style-type: none"> When short-circuited between VH150V and GND <ul style="list-style-type: none"> Scan IC fault D-D converter fault When not short-circuited between VH150V and GND <ul style="list-style-type: none"> VH over-current mode (BYPASS FET is always ON) <ul style="list-style-type: none"> BYPASS output FET short-circuited Digital section BYPASS control signal fault Control signal stuck VH over-current mode (Scan IC mis-operations) <ul style="list-style-type: none"> Scan IC fault Scan IC control signal fault Vsus 175V line fault |
| POWER SUPPLY MODULE | When the following are L P12 Pin ⑤ (PD.XA) Pin ⑦ (PD.XB) P6 Pin ⑧ (PD.YA) Pin ⑩ (PD YB) | | PD only at small signal block (Large Power line off) Note | <ul style="list-style-type: none"> When small signal block power overload <ul style="list-style-type: none"> Fault of small signal block power supply of assemblies Fault of only the POWER SUPPLY MOD. When not small signal block power overload <ul style="list-style-type: none"> Fault of the POWER SUPPLY MOD. when PD occurs in the POWER SUPPLY MOD. alone Fault of assembly when PD does not occur in the POWER SUPPLY MODULE alone |
| | | | PD at the large power block Vcsp +40V Vsus +175V VOFS +150V VRN -190V | <ul style="list-style-type: none"> When large power block overload <ul style="list-style-type: none"> Fault of power supply of each drive assemblies Fault of the POWER SUPPLY MOD. When not large power block overload <ul style="list-style-type: none"> Fault of the POWER SUPPLY MOD. when PD occurs in the POWER SUPPLY MOD. alone Drive circuit mis-operations when PD occurs due to drive assembly operations <ul style="list-style-type: none"> Drive control signal fault Pulse module IC input signal fault <ul style="list-style-type: none"> Between SUS-B ④ and ⑥ of IC2610 (XA) Between SUS-U ⑤ and ⑥ of IC2611 (XB) Between SUS-D ⑭ and ⑮ of IC3101-1 (YA) Between SUS-G ㉑ and ㉒ of IC3106 (YA) Fault between FET and G of each output |

Note) If PD occurs without +5V supplied to the PD terminal of the drive assembly, overload of the power supply or malfunction of the POWER SUPPLY MOD. may be suspected. Turn OFF the large power ON/OFF switch SW1 of POWER SUPPLY MOD., and short-circuit Pins ① to ③ of CN3305 of each assembly of Y DRIVE (A)/(B) so that only the small signal block can be checked.

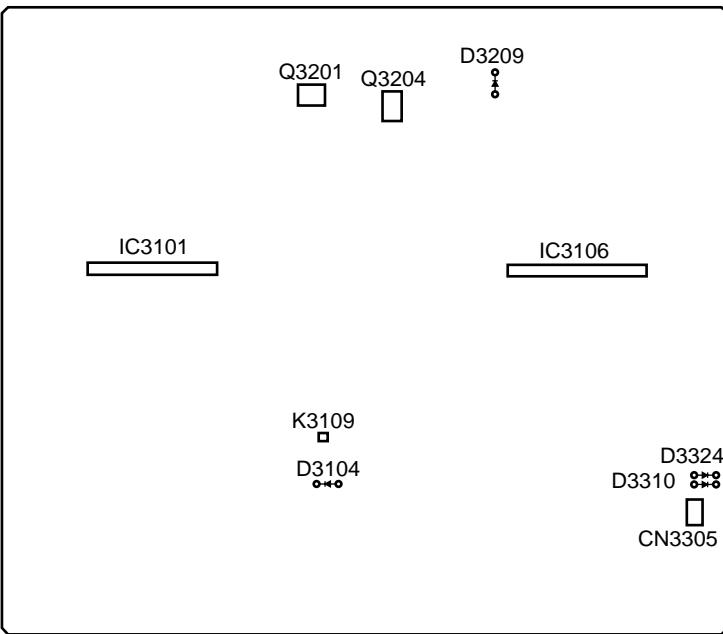
E X DRIVE A/B ASS'Y



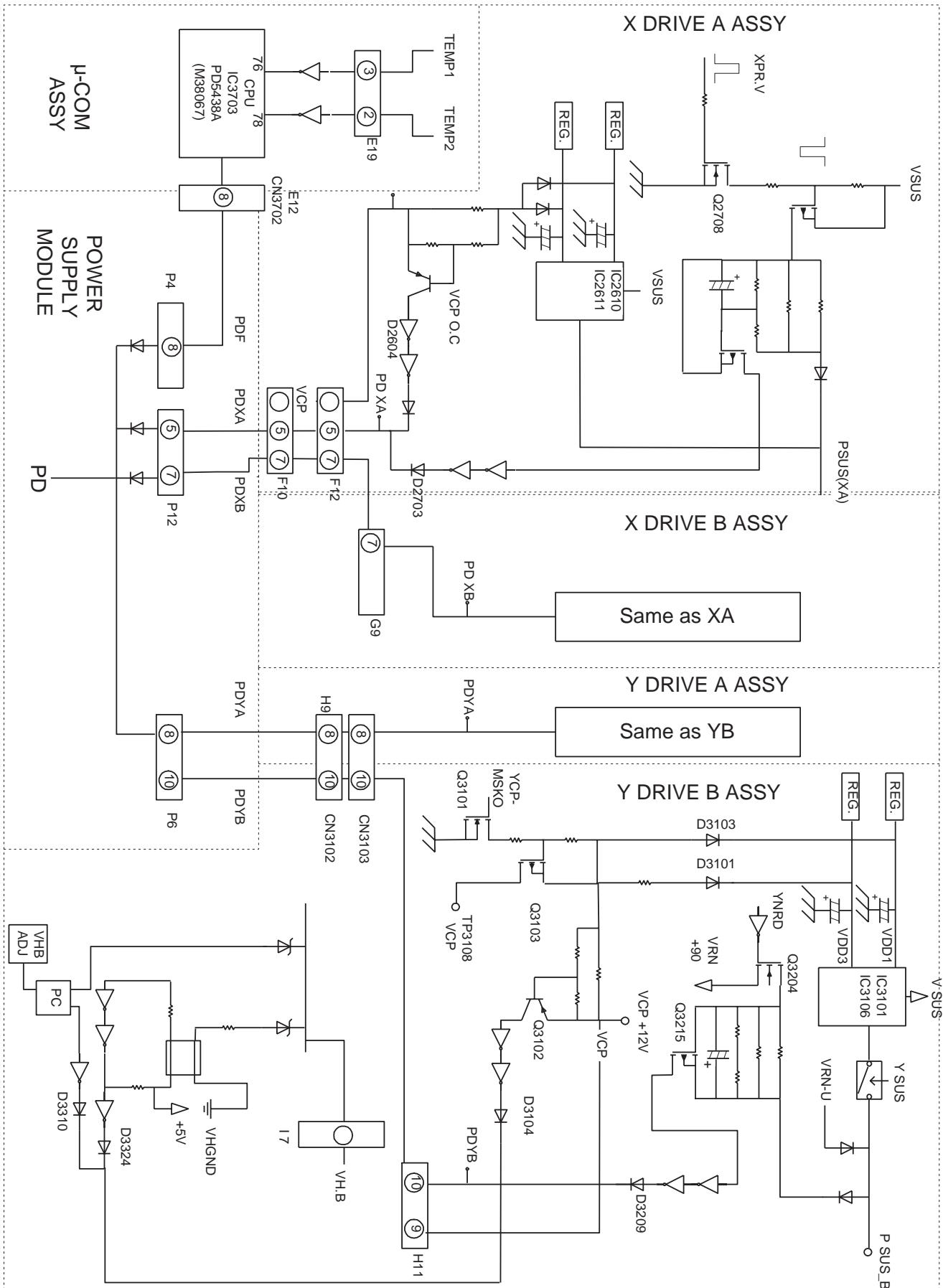
G Y DRIVE A ASS'Y



H Y DRIVE B ASS'Y

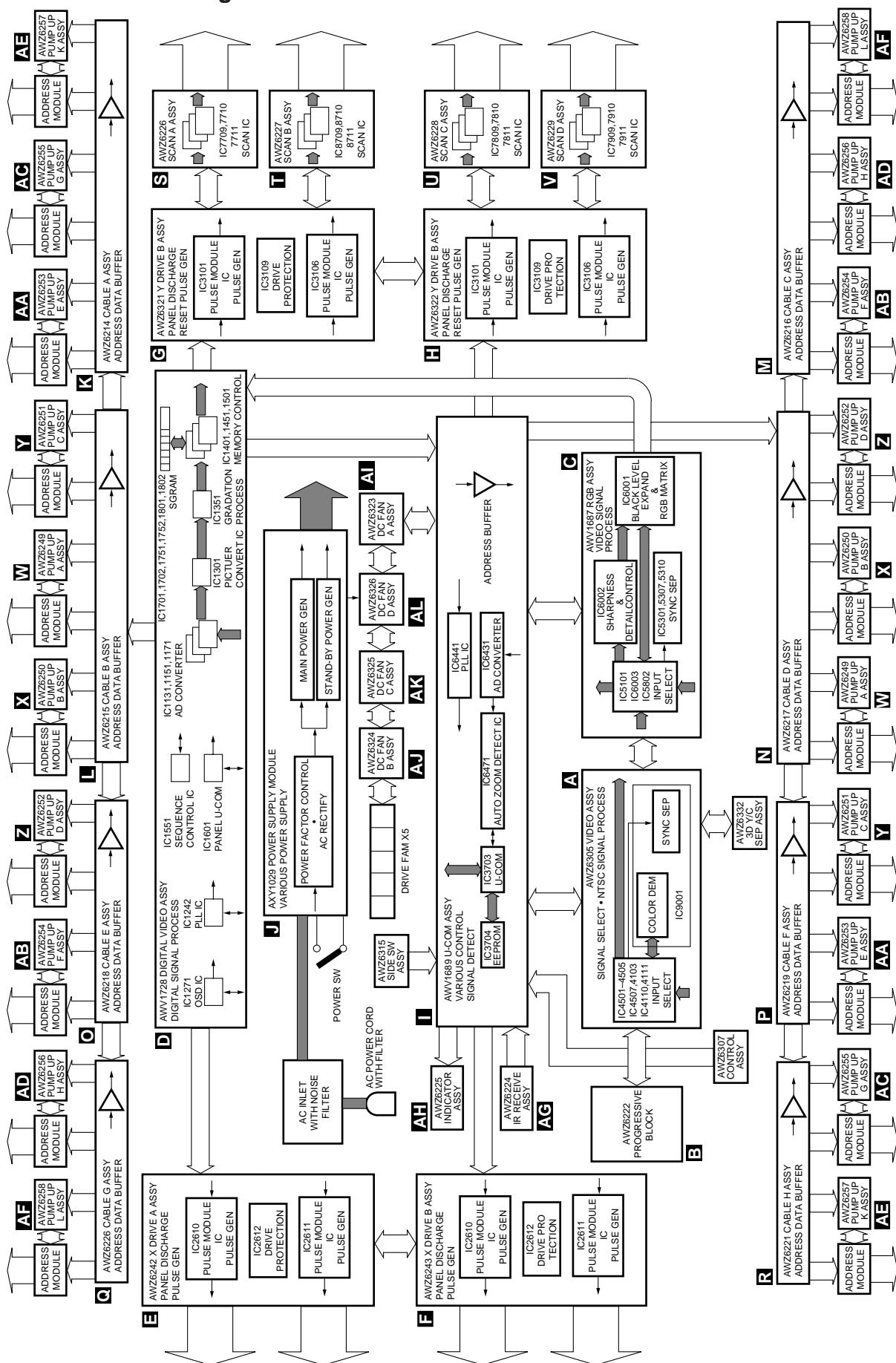


Power Down Circuit BLOCK DIAGRAM

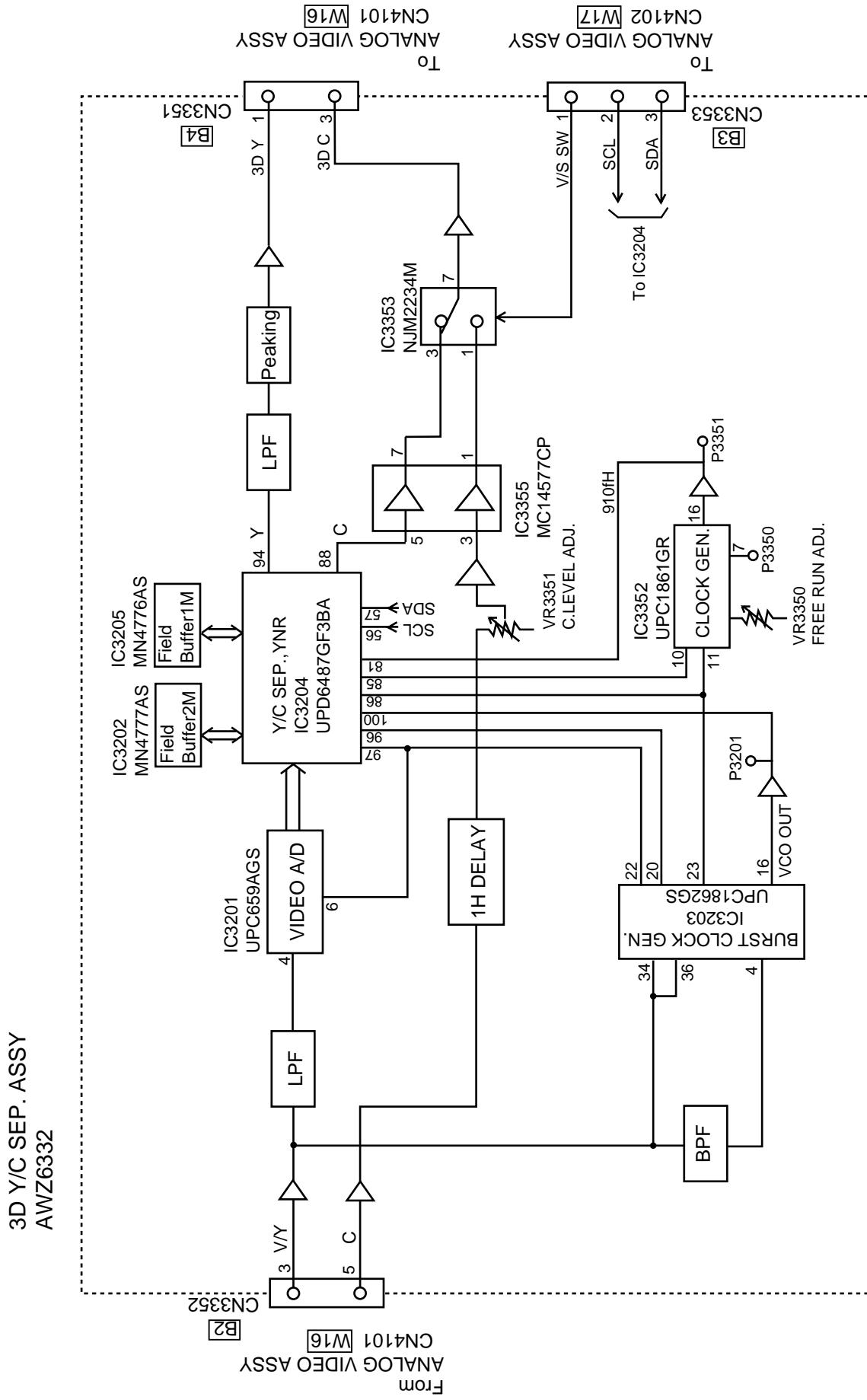


7.3 BLOCK DIAGRAM

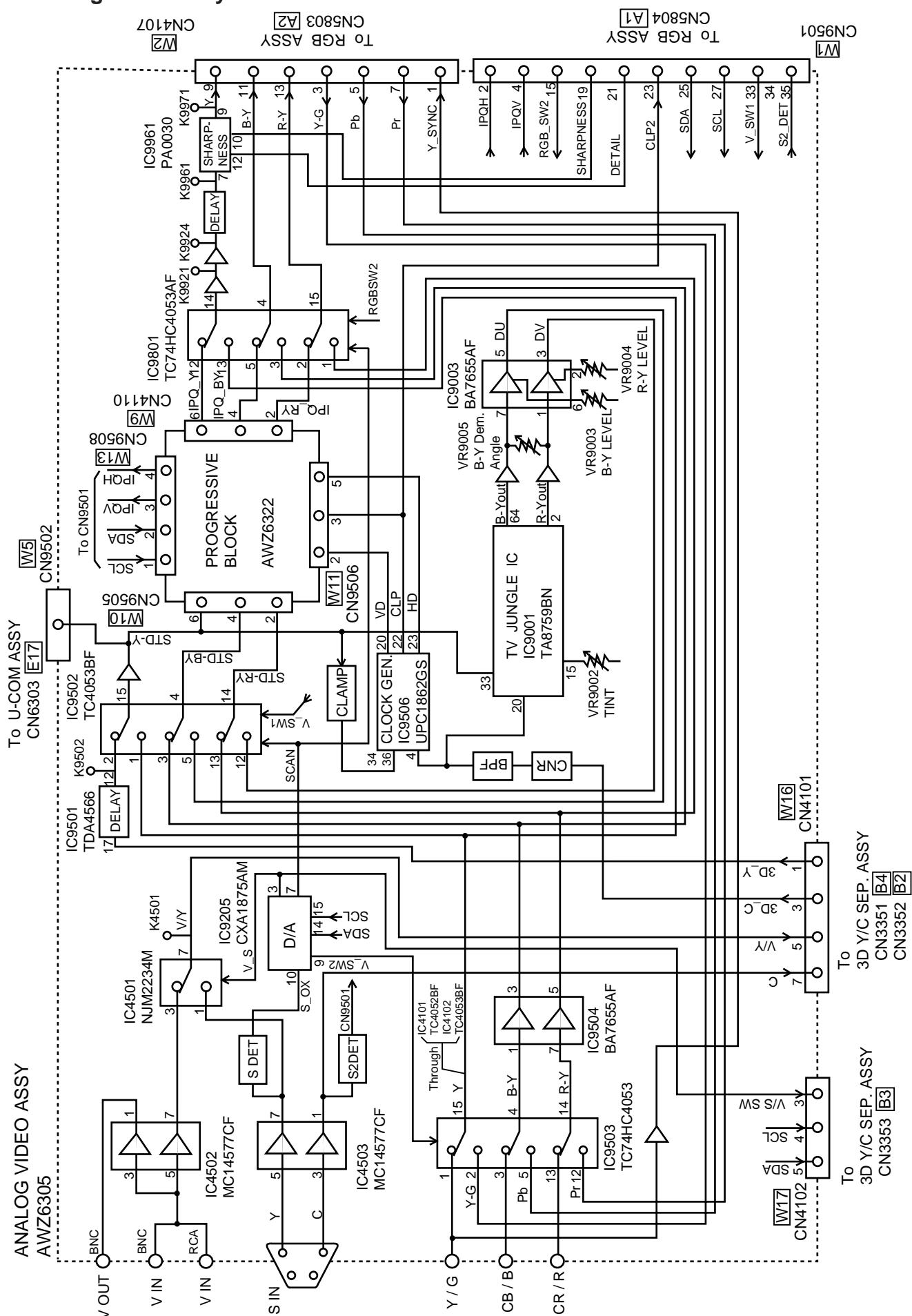
7.3.1 Overall Block Diagram



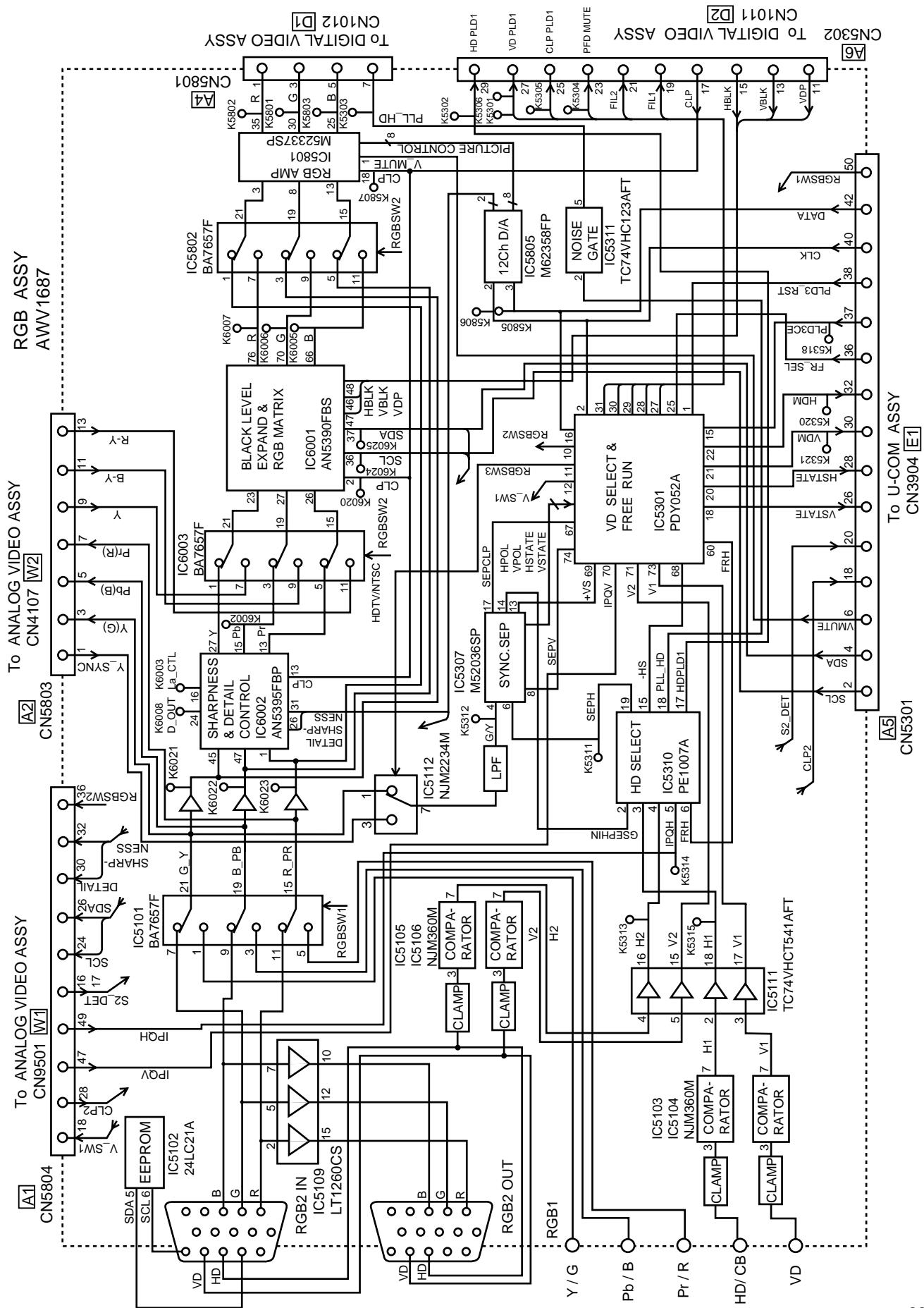
7.3.2 3D Y/C Sep. Assy



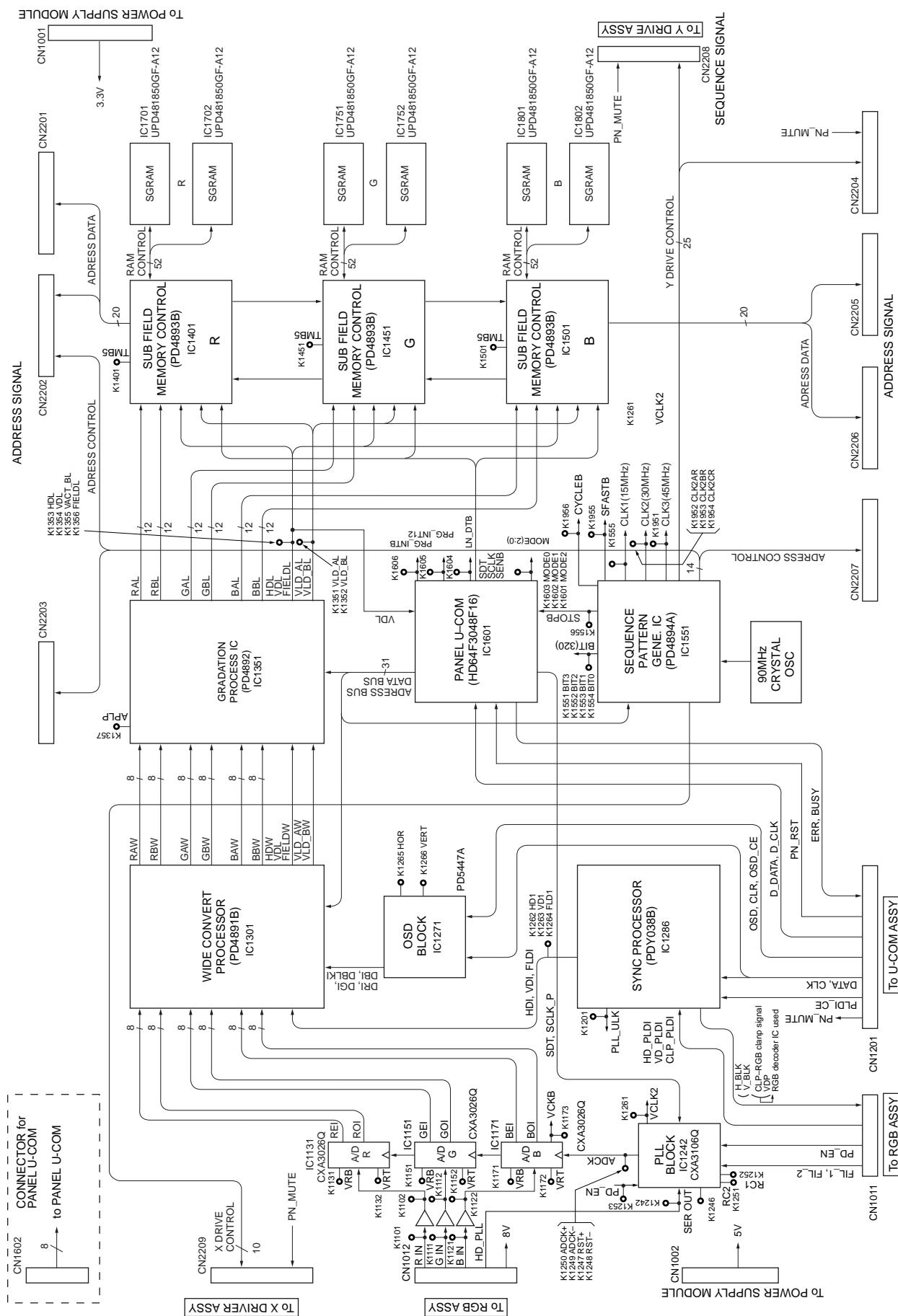
7.3.3 Analog Video Assy



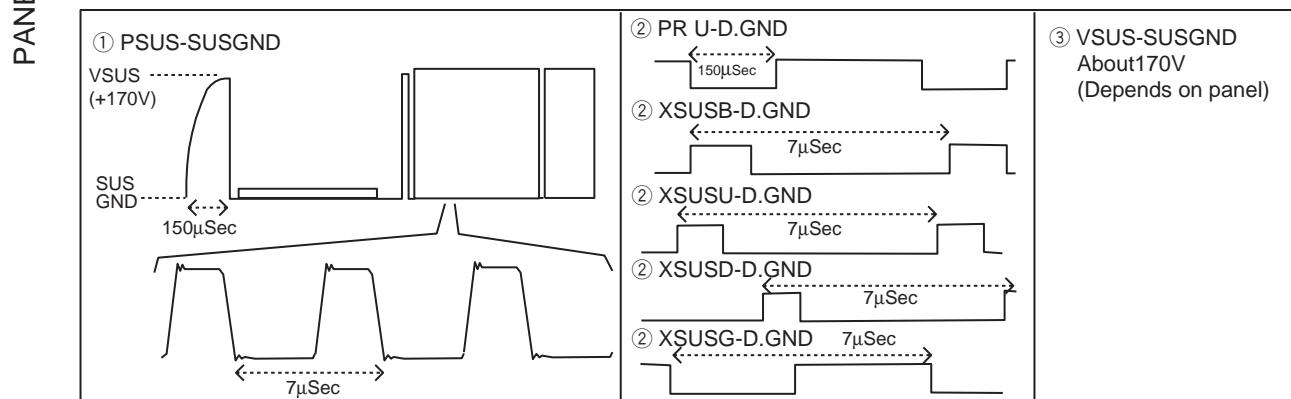
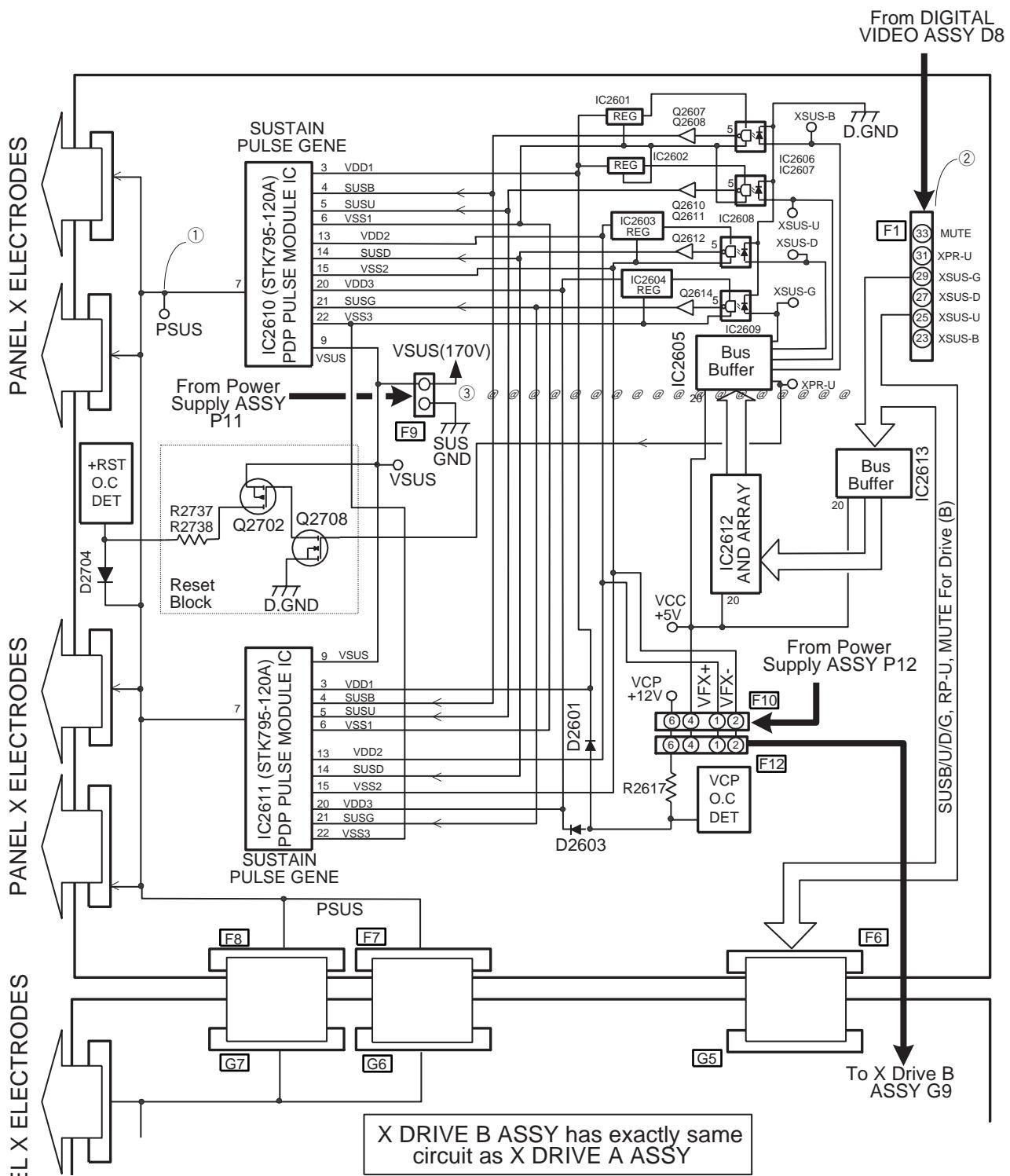
7.3.4 RGB Assy



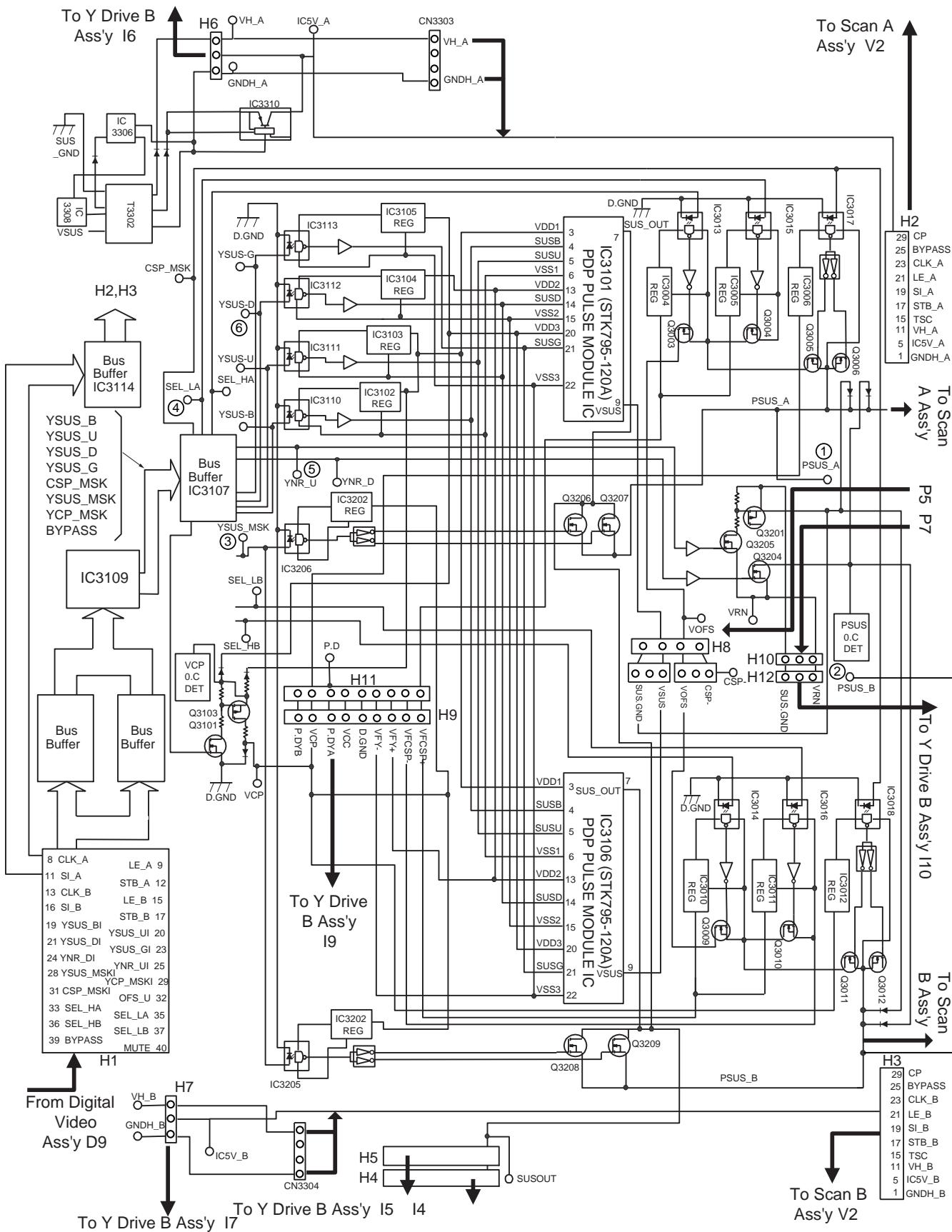
7.3.5 Digital Video Assy



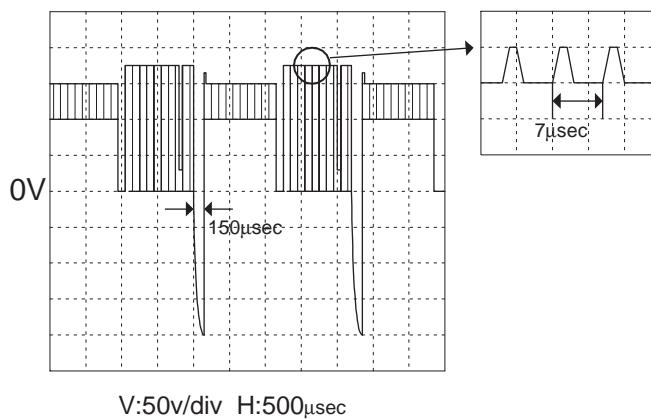
7.3.6 X Drive (A) Assy



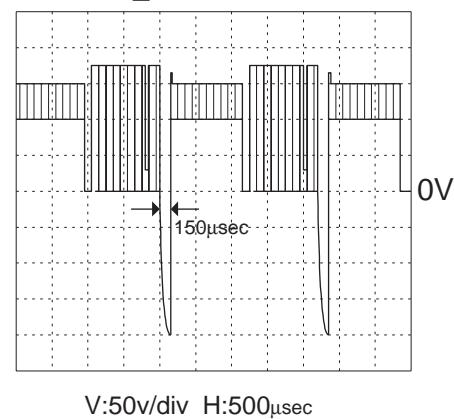
7.3.7 Y Drive (A) Assy



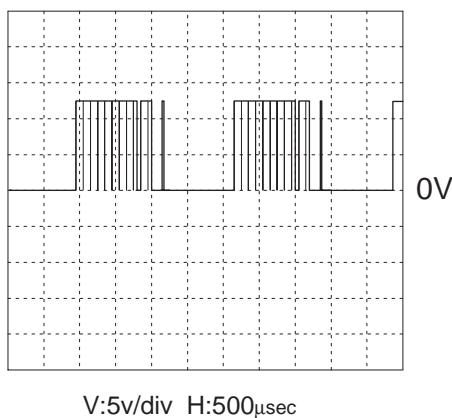
① PSUS_A : SUS.GND



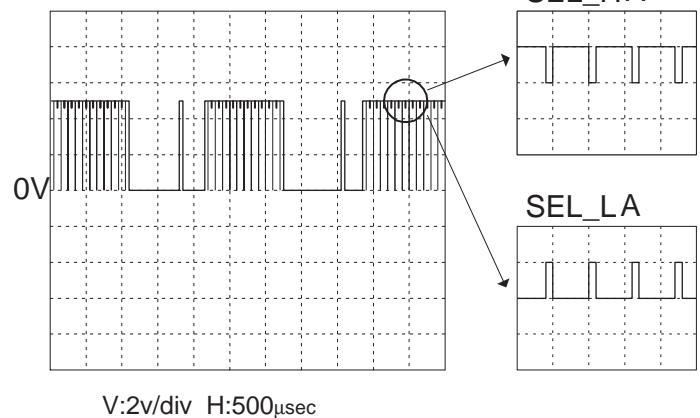
② PSUS_B : SUS.GND



③ YSUS_MSK : D.GND



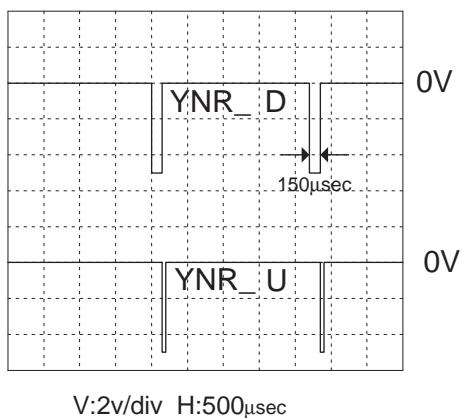
④ SEL_HA,SEL_LA : D.GND



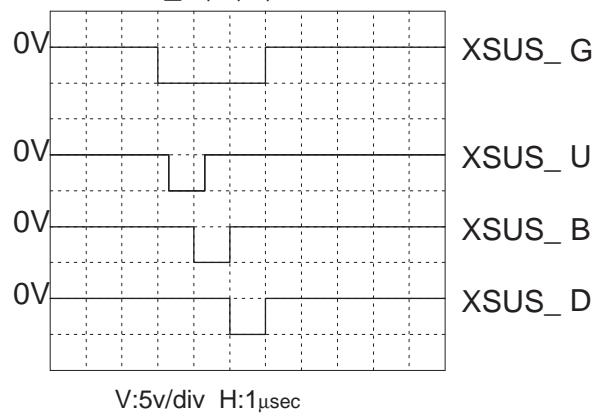
SEL_HA

SEL_LA

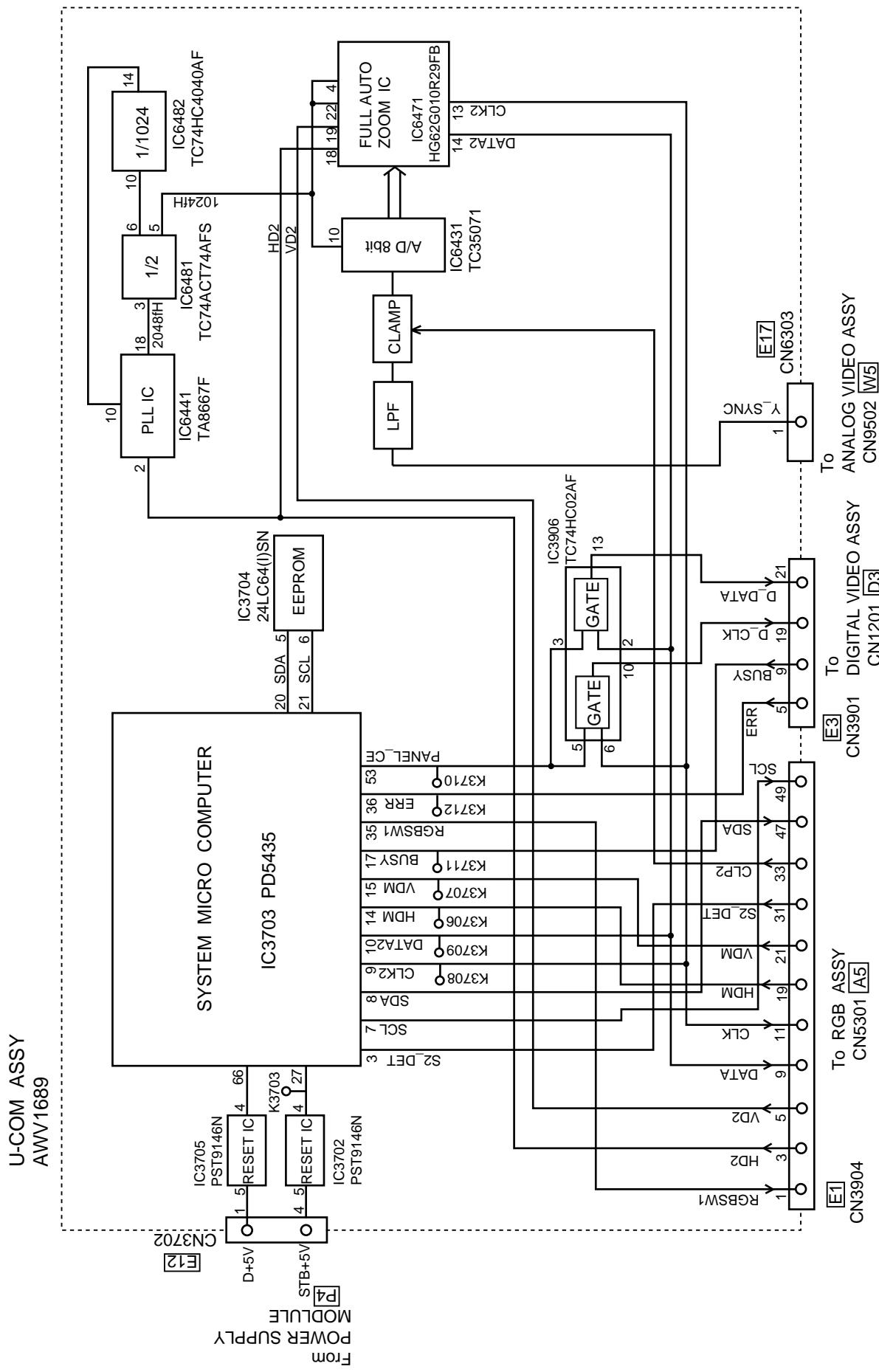
⑤ YNR_D,YNR_U : D.GND



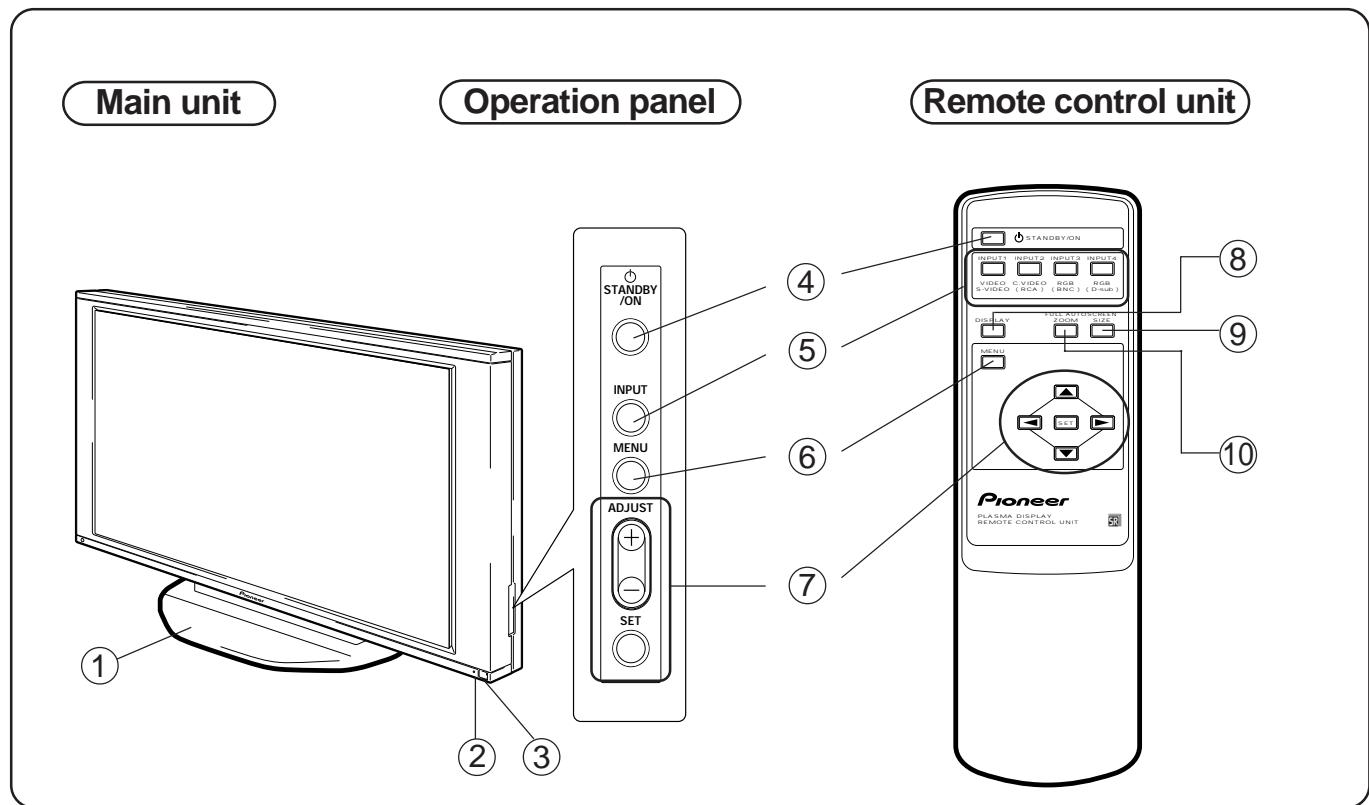
⑥ XSUS_G,U,B,D : D.GND



6.3.8 U-COM Assy



8. PANEL FACILITIES AND SPECIFICATIONS



① **Table top stand PDK-5001 (optional)**

② **Standby indicator**

This indicator is red during standby mode, and turns to green when the unit is in the operation mode.

③ **Main power button of display**

Turns the display's power ON/OFF.

④ **Power button**

Turns the power ON/OFF (Standby).

⑤ **INPUT selection button**

Used to select input.

⑥ **MENU button**

Used to switch between menu screens and the regular picture.

⑦ **ADJUST button**

Used to adjust various settings on the unit.

⑧ **DISPLAY (Display call) button**

Used to view the unit's input and setup mode conditions.

⑨ **SCREEN SIZE selection button**

Used for manual selection of screen size.

⑩ **FULL AUTO ZOOM button**

Used for automatic selection of screen size.

PDP-501MX, PDP-V501X

■ Specifications

PDP-501MX Plasma display

| | |
|--|--|
| Light emission panel | 50 inch plasma display panel |
| Number of pixels | 1280 x 768 (XGA) |
| Power supply | AC 120 V, 60 Hz |
| Power consumption | 555 W |
| Standby power consumption | 3 W |
| External dimensions | 1218 (W) x 714 (H) x 98 (D) mm 47-31/32 (W) x 28-1/8 (H) x 3-7/8 (D) inch. 1218 (W) x 764 (H) x 400 (D) mm 47-31/32 (W) x 30-1/8 (H) x 15-3/4 (D) inch. (when using table top stand) |
| Weight | 43 kg (94 lbs. 13 oz) 47 kg (103 lbs. 10 oz) (includ. Table top stand) |
| Operating temperature range | 0 to 40 °C (32 to 104 °F) |
| Operating atmospheric pressure range | 0.9 to 1.1 atmospheric pressure |

INPUT 1

| |
|--|
| Jack type: (Note 1, 2) |
| RCA pin jack (composite video signal, 1 Vp-p/75 Ω input) |
| BNC pin jack (composite video signal, 1 Vp-p/75 Ω input) |
| Mini DIN 4 pin/S terminal (S2 video signal, Y:1 Vp-p, C:0.286 Vp-p/75 Ω input) |
| Compatible input signal: NTSC video signal With output jack (BNC jack-75 Ω output) (Note 3, 4) |

INPUT 2

| |
|--|
| Jack type: |
| RCA pin jack x 3 (Y:1 Vp-p, color difference: 0.7 Vp-p/75 Ω input) |
| Compatible input signal: |
| Component video signal (15.7 KHz horizontal x 60 Hz vertical) Component video signal (31.5 KHz horizontal x 60 Hz vertical) |

INPUT 3

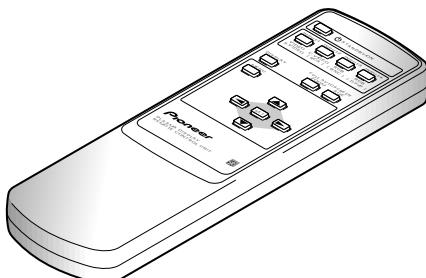
| |
|---|
| Jack type: |
| BNC jack x 5 (G, B, R: 0.7 Vp-p, Sync section: 0.3 Vp-p/75 Ω input) (HD/CS, VD:TTL level/75 Ω or 2.2 kΩ input conversion possible) |
| Compatible input signal: |
| Component video signal, RGB signal (G ON SYNC compatible) Refer to next page for input compatible frequency |

INPUT 4

| |
|--|
| Jack type: |
| Mini D-Sub 15 pin (G, B, R: video section: 0.7 Vp-p, Sync section: 0.3 Vp-p/75 Ω input) (HD/CS, VD:TTL level/2.2 kΩ input) |
| Compatible input signal: |
| Component video signal, RGB signal (G ON SYNC compatible) Refer to next page for input compatible frequency |

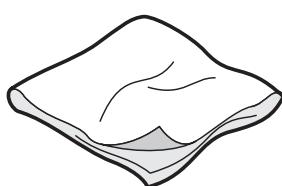
With output jack (Mini D-Sub 15 pin - 75 Ω output) (Note: 4)
Compatible with Microsoft's Plug & Play (VESA DDC1/2B)

- Remote control unit



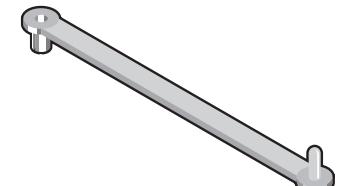
AXD1437

- Cleaning cloth x 1



AED1174

- Speed clamp x 2



Binder Assy AEC1758

- Bead band x 2



AKX1052

Accessories

| | |
|--------------------------------|---|
| AC Power cord | 1 |
| BNC conversion connector | 3 |
| Remote control unit | 1 |
| AA R6 UM-3 batteries | 2 |
| Cleaning cloth | 1 |
| Speed clamp | 2 |
| Bead band | 2 |
| Warranty | 1 |
| Operations Instructions | 1 |

- For improvement purposes, specifications and design subject to change without notice.

(Note 1) The RCA jack and BNC jack are connected electronically within the unit and one or the other can be used (for connection of another component). Please do not use both jacks at the same time (for connection of other components) as this could damage the unit.

(Note 2) When the RCA jack or BNC jack is used at the same time as the S Video jack (for connection of other components), the S video jack will have signal input priority.

(Note 3) The signal input from the RCA jack or BNC jack will be output. Input signals will not be output from the S video jack.

(Note 4) There will be no output during power off or the standby mode.

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