

*PlayChoice*TM

KIT MANUAL

Nintendo[®]

FOR INSTALLATION IN

VS. TABLE / MDS-TBL

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IV. Step-By-Step Conversion Process

NOTE: Be sure the cabinet is turned OFF, and is unplugged, before beginning any disassembly.

1. Replace the Play Label (see Figure 1)

- A. With the Serial Number Plate and power switch to your left, unlock and open the top of the table.
- B. From the inside of the table cover, remove the four (4) hex nuts using the 9/32" nut driver that holds down the play label plastic cover.
- C. Remove the old play label and clean the plastic.
- D. Peel off the two (2) strips of paper backing on the new play label and adhere into place.
- E. Replace the plastic cover and re-install the four (4) carriage bolts with the four (4) 9/32" nuts.

NOTE: Do not over-tighten the nuts.

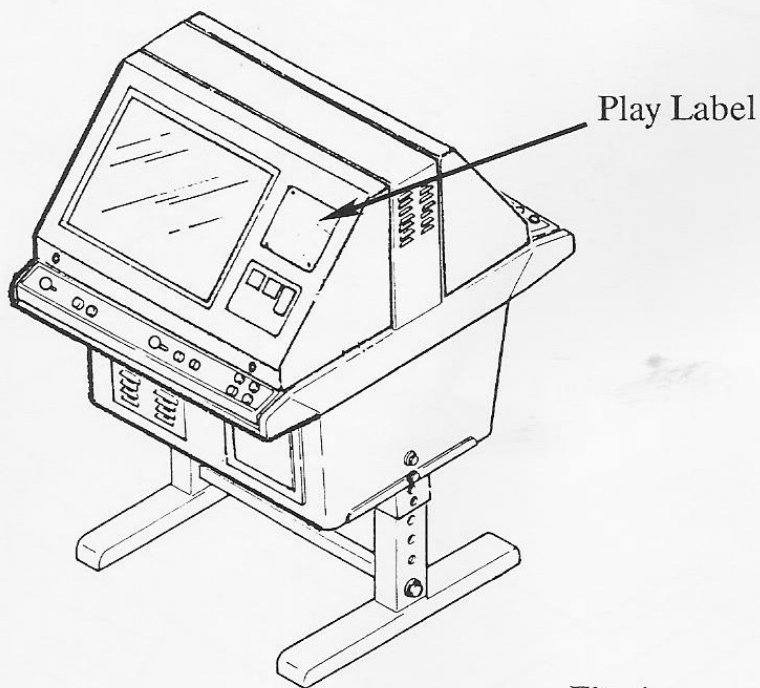


Fig. 1

I. Introduction

PlayChoice™ Kit

This PlayChoice™ Kit allows you to convert any VS. System (Dual) Table into a two-game system table. The conversion will leave the original VS. System™ on one side and the other side will become a new PlayChoice™ System.

(NOTE: This conversion will cause VS. Baseball™ and VS. Tennis™ not to work.)

Before you begin, be sure you are properly prepared. Thoroughly read this instruction manual to familiarize yourself with the proper procedures. Make certain that you have all the tools necessary to complete the process.

If you have any questions, please call Nintendo Service at:

1-800-633-3236

2. Modify the Monitor Bezel

Using a cutting blade (razor) knife, cut away and remove the section of the cardboard bezel as shown (see Figure 2).

Remove this area of cardboard bezel

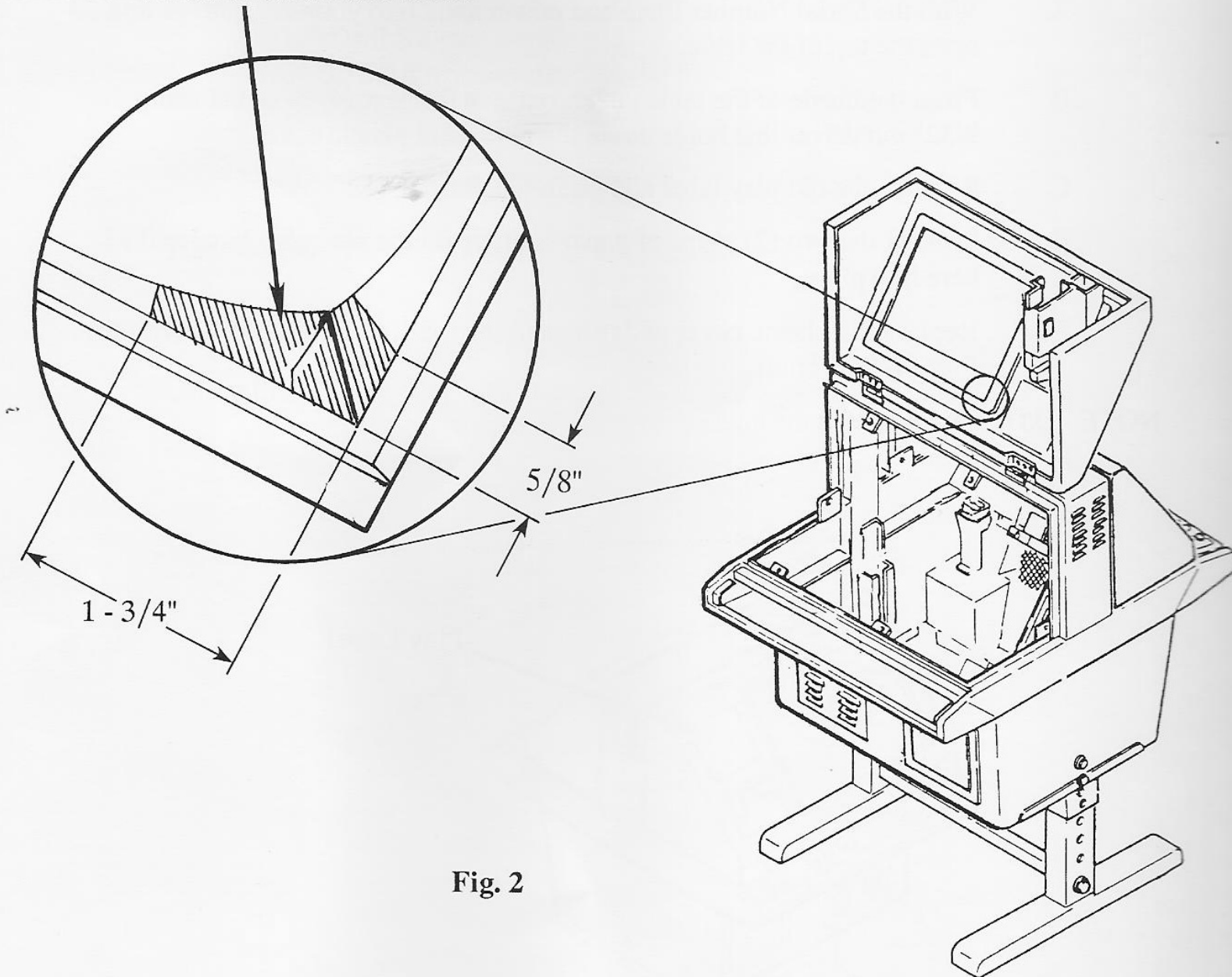


Fig. 2

II. Contents of PlayChoice Table Kit

| Part Name | Qty |
|--|-------|
| PCB Box and Door Assy | 1 set |
| FCC Class A Label | 1 |
| Screw Tie-Down | 4 |
| #8 Flat Washer | 6 |
| #6 x 3/8" Sheet Metal Screw | 4 |
| LED PC Board Table Bracket..... | 1 |
| LED PC Board Assy | 1 |
| Card Spacer | 2 |
| UP 36P 080 edge Harness | 1 |
| TBL 44P 080 edge Harness | 1 |
| Cable Tie (RT-400)..... | 2 |
| PCK1-CPU PC Board Assy | 1 |
| Spiral Tube..... | 1 |
| Power Supply Assy 080..... | 1 |
| 4P Power Harness (PT)..... | 1 |
| 9P-080 Power Junction Harness | 1 |
| 5A 250V Slow Blow Fuse | 1 |
| Play Label | 1 |
| DIP Switch Label..... | 1 |
| PCKD1-TBL-US Serial Number Plate | 1 |
| PCK (Table) Kit Manual..... | 1 |
| #8-32 x 3/4" Machine Screw..... | 6 |
| Drill Template | 1 |
| Authorization Label | 1 |

3. Assemble the LED Board

- A. Remove the hex nut closest to the cut out in the monitor bezel using a 9/32" nut driver.
- B. Assemble the LED board and LED bracket using the two (2) black board spacers (see Figure 3).
- C. Mount the LED board assembly to the corner of the metal monitor bezel and attach it into place using the 9/32" hex nut and driver (see Figure 4).
- D. After mounting the LED board assembly, close the cover of the table and check to make sure you can see the LED display near the top of the glass screen. Adjust the cardboard or bracket, if necessary.

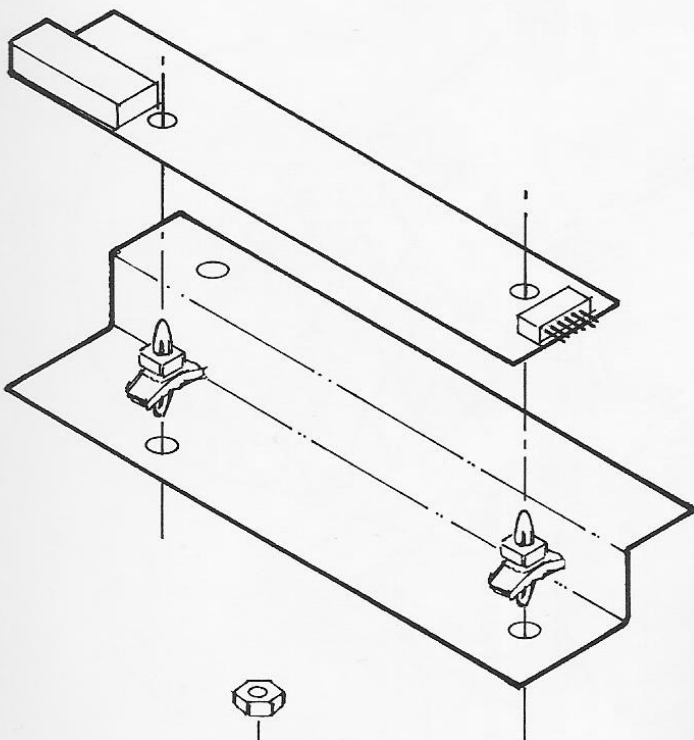


Fig. 3

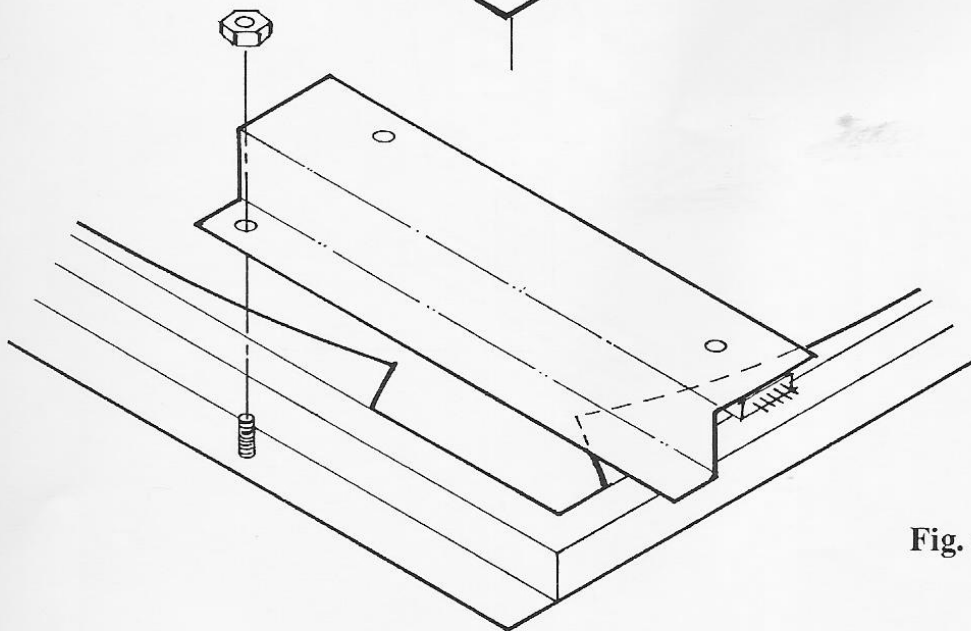


Fig. 4

III. List of Tools Needed

Phillips Head Screw Driver

Or

Electric Driver with Phillips Bit

Electric Drill

3/16" Drill Bit (for metal)

1/8" Drill Bit (for metal)

5/16" Drill Bit (for metal)

9/32" Nut Driver (or adjustable wrench)

1/2" Nut Driver

Cutting Blade

Center Punch

4. Remove the Monitors

- A. Unplug wire harnesses leading to *both* monitors:
 - 2P Audio
 - 6P Video
 - 2P Speaker
 - AC Power Cords
- B. Remove the four (4) screw/washer assemblies in the corners of the monitor mounting brackets using a Phillips head screwdriver (see Figure 5).
- C. Carefully remove the monitors from the table chassis and store in a safe place for later re-assembly.

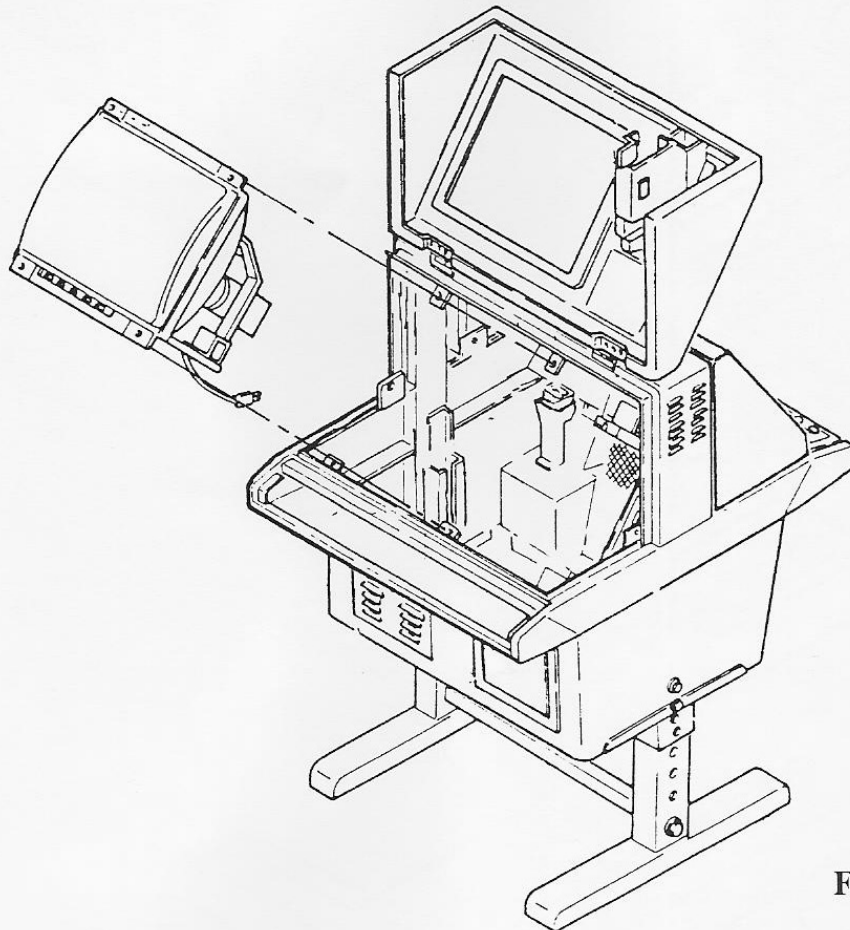


Fig. 5

5. **Remove the Screen Vent (see Figure 6)**

- A. Using a 5/16" drill bit, drill out the ten (10) spot weld points on the screen vent on the bottom of the chassis.

NOTE: This is the vent *not* covered by the existing transformer.

- B. Knock out the vent grill by pushing up from the bottom of the chassis. (it may be necessary to use a hammer).

WARNING: Be careful of the sharp edges of the vent grill and vent opening.

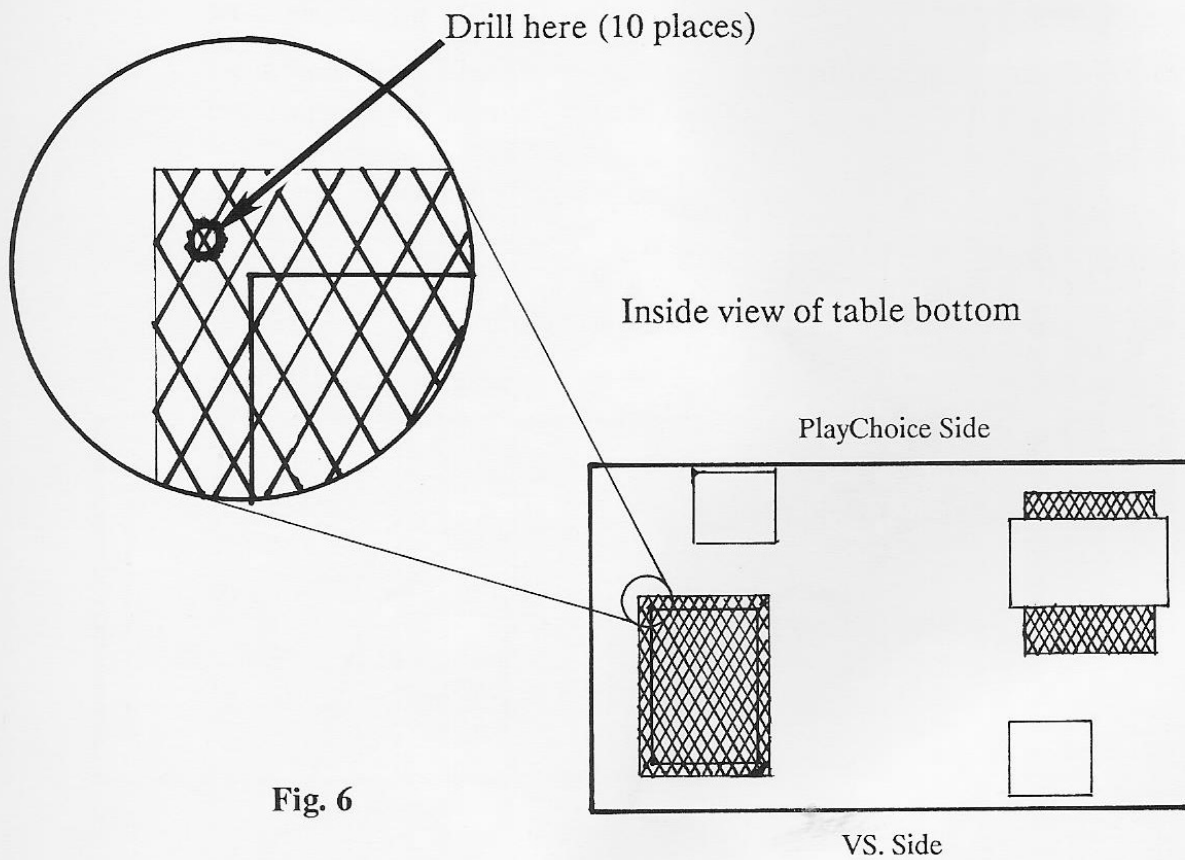


Fig. 6

6. Adjust Leg Height

The clearance between the bottom of the table chassis to the top of the leg brace *must* be a minimum of 8" tall. This is to allow room for mounting the new PCB box (see Figure 7). To adjust the leg height:

- A. Tilt the table onto one side.
- B. Remove the two (2) hex bolts on each side of the table with an adjustable wrench or 1/2" nut driver.
- C. Adjust the height of the legs to the desired level and re-attach the four (4) hex nuts and washers.
- D. Check to make sure the PCB box fits under the table chassis.

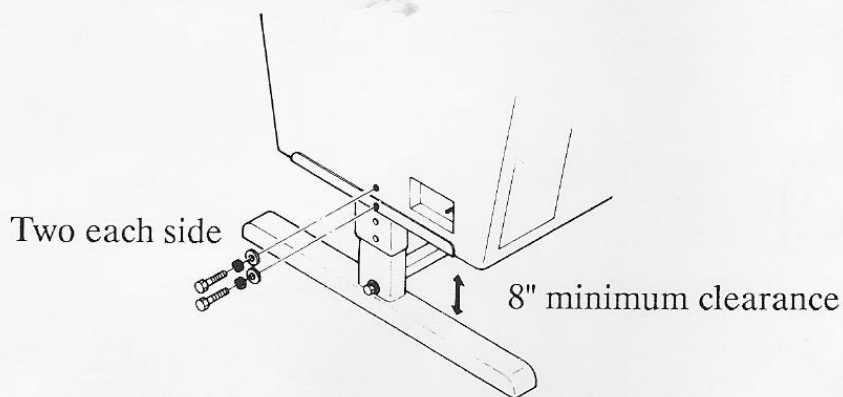


Fig. 7

7. Mark and Drill the Chassis Bottom

- A. Tilt the table onto one side.
- B. Place the cardboard template (part #18062), printed side out, onto the bottom of the chassis over the just-removed vent grill hole. Align the long edge of the template against the table leg mounting flange and make sure that the black dot matches up exactly with the location of the power cord grommet. (it may help to cut a notch around the dot). The two (2) short sides of the template should match up with the corners of the chassis bottom that face the players (control panels) and tape template into place (see Figure 8).
- C. Using a center punch, mark the locations of the six (6) holes on the template into the metal chassis.
- D. Drill through the chassis on the six (6) marked locations with a 3/16" drill bit. Remove the template (see Figure 8).

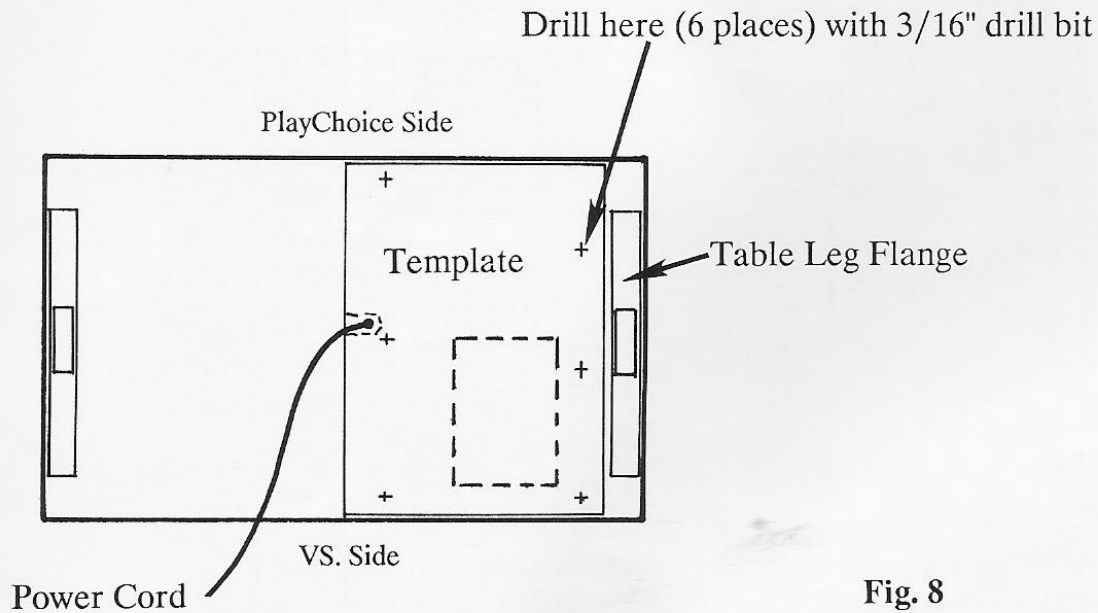


Fig. 8

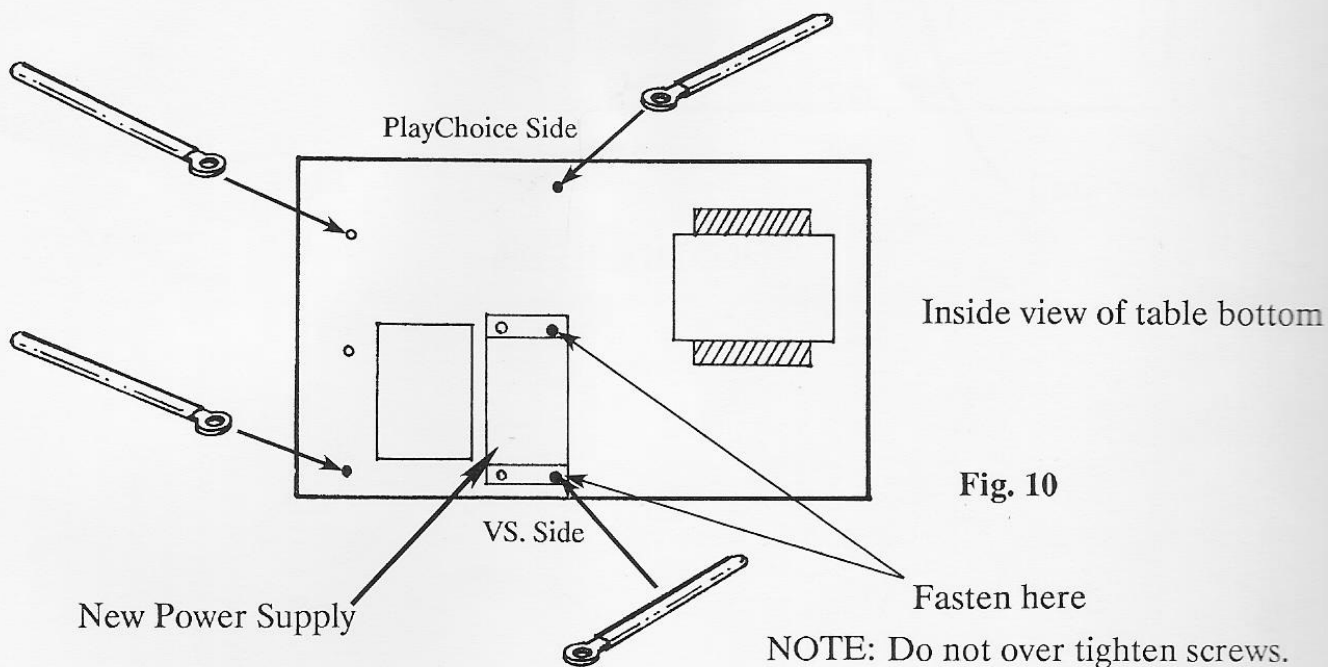
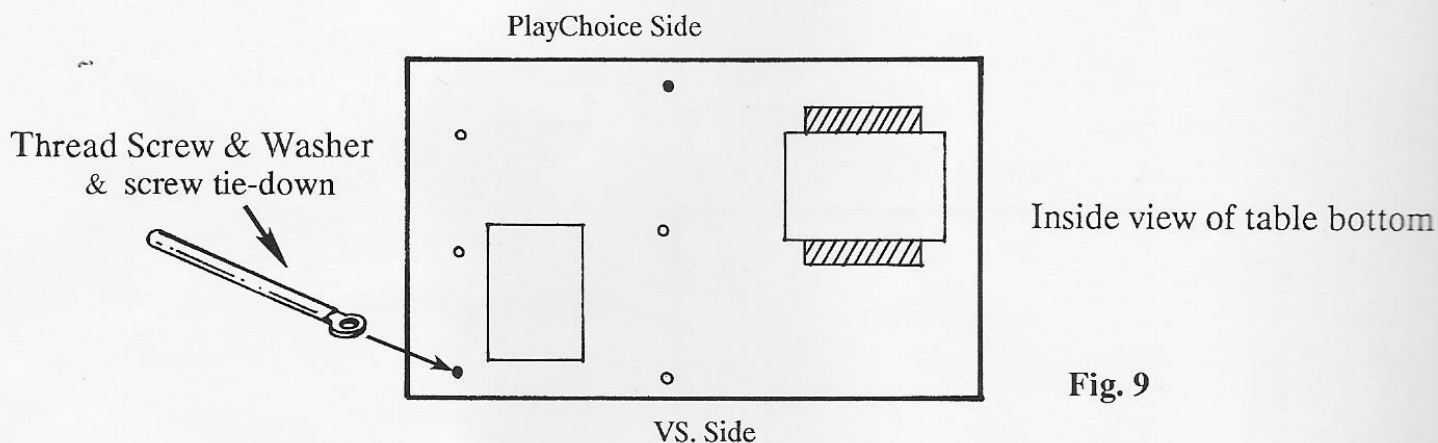
Bottom view of table

8. Mount the PC Board Box Assembly and Power Supply

- A. Align the opening in the top of the PC board box with the opening in the bottom of the table chassis.
- B. Using two (2) of the #8 x 3/4" machine screws and #8 washers, attach the PC board box to the chassis by threading the screws from the inside of the table chassis into the two corners of PC board box. Use a screw tie-down in one corner as shown (see Figure 9).

NOTE: It is important to attach *only* these two screws before proceeding to the next step.

- C. Now attach the power supply to the chassis by aligning it over the two (2) holes shown in Figure 11, and fastening it with two (2) #8 x 3/4" screws and #8 washers and two (2) screw tie-downs.
- D. Thread in the remaining two (2) #8 x 3/4" screws and #8 washers into the chassis and PC board box. Note the location of the last screw tie-down (see Figure 10).



9. Install New Harnesses

- A. Install the 4 Pin Power Harness (PT) to the power transformer terminal block (see Figure 11).

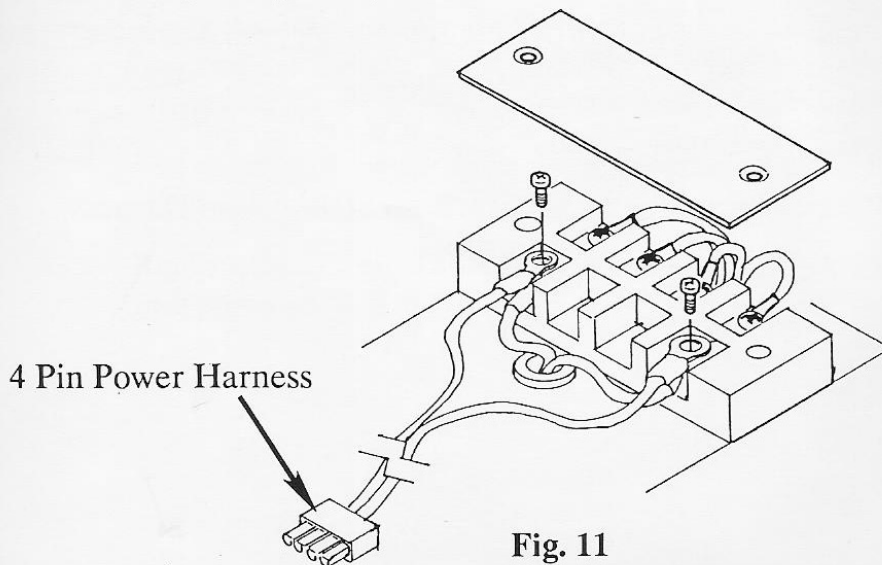


Fig. 11

- B. Disconnect the following wire harnesses from the main side (the side with the PC board mounted on it):

| | |
|------------------------|---------------------|
| 15 Pin Control Harness | Goes to existing 36 |
| 12 Pin Control Harness | Pin edge harness |
| <hr/> | |
| 6 Pin Video Harness | |
| 2 Pin Audio Harness | Goes to existing 44 |
| 4 Pin Coin Harness | Pin edge harness |
| 4 Pin Service Harness | |
| 3 Pin Counter Harness | |

- C. Install the new 44 Pin and 36 Pin edge harnesses (see Figures 12 and 13).
- D. Install the 9 Pin power junction harness between the existing power supply (mounted on the coin box) and the 9 Pin power harness of the existing 44 Pin edge harness. Connect the remaining 2 Pin connector of the junction harness to the 2 Pin of the new power supply (see Figure 13).
- E. Connect the 4 Pin power harness from the new power supply to the transformer and connect the remaining 9 pin power harness to the 9 Pin connector of the new 44 Pin edge harness (see Figure 13).
- F. Connect 12 Pin and 15 Pin connectors to the control panel.
- G. Connect the grounding-ring terminal from the 9 Pin harness of the 44 Pin edge harness to the existing service switch mounting using a 9/32" nut driver (see Figures 12 and 13).

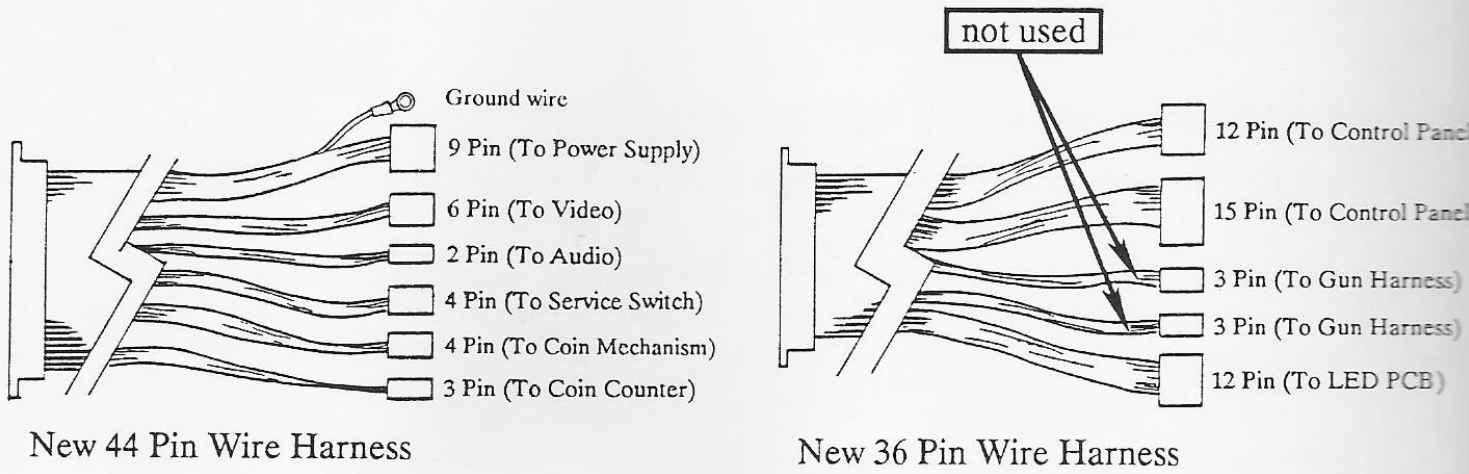
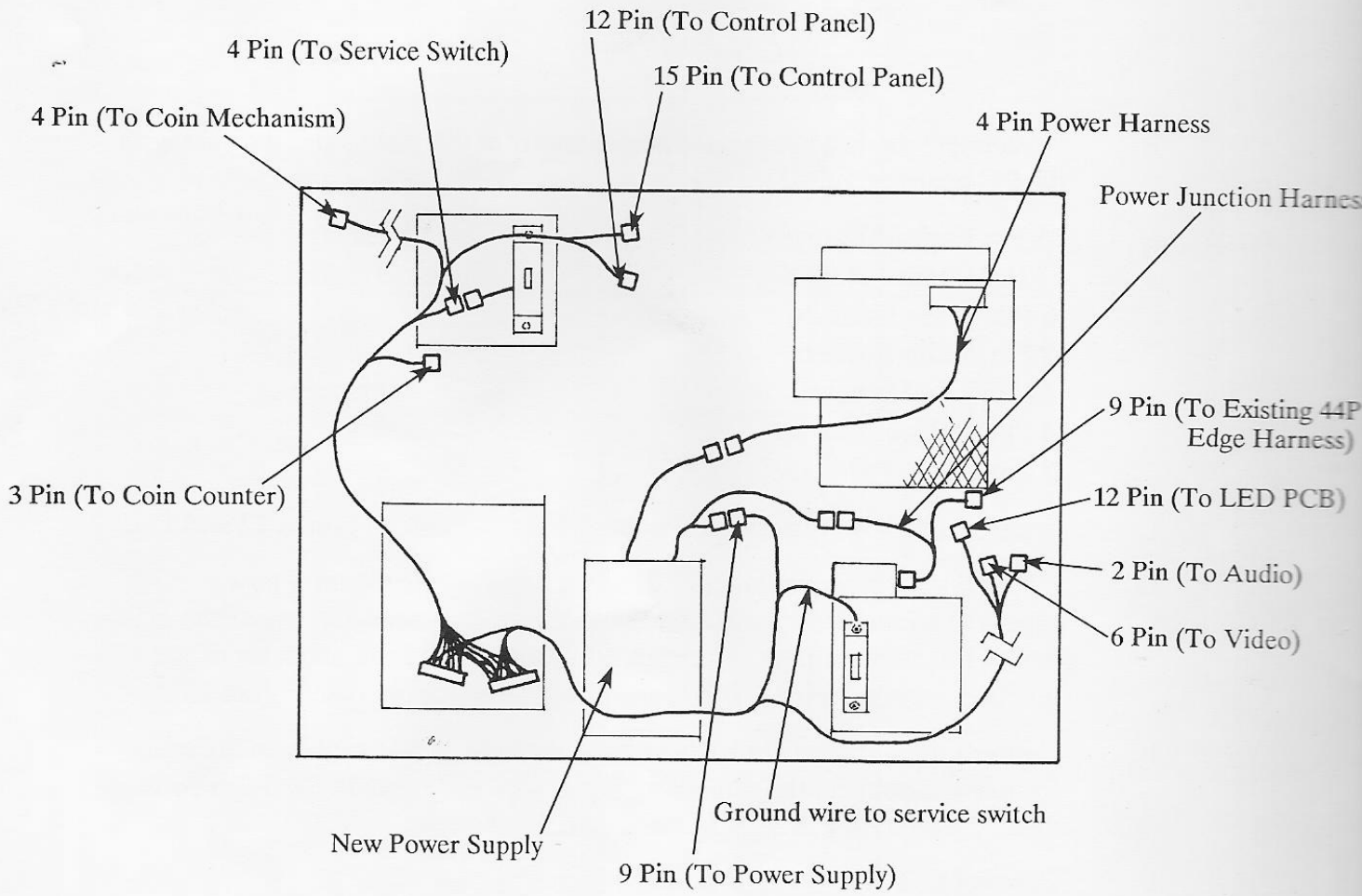


Fig. 12



Inside view of table bottom

Fig. 13

- H. Wrap the 4 Pin coin harness and 12 Pin LED harness with the spiral wrap tubing (provided) to protect them from table lid movement. Connect the harnesses (see Figure 14).
- I. Route the 2 Pin audio and 6 Pin video harness along the side of the chassis opposite the main PC board. Fasten down using the screw down wire ties already mounted.
- J. Use the four (4) screw down wire ties mounted in the bottom of the chassis to secure all of the remaining loose wire harnesses.
- K. Replace the existing (4A 125V) fuse to the new (5A 250V Slow Blow) fuse provided.

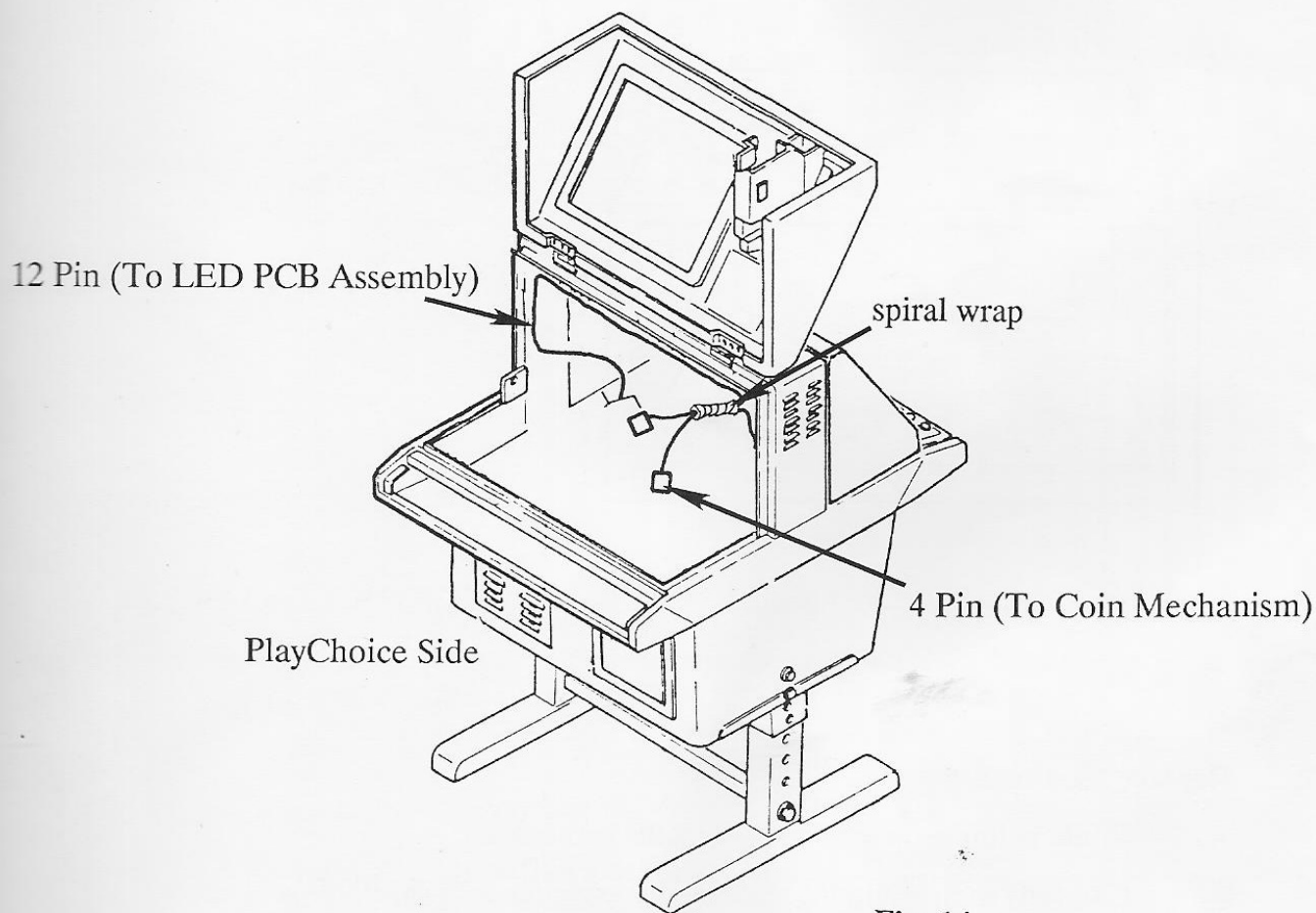


Fig. 14

12. Attach the Serial Number Plate

- A. Place the new serial number plate over the old FCC class A sticker and mark the location of the four (4) corner holes with a center punch.
- B. Using a 1/8" drill bit, carefully drill through the marked locations into the metal chassis. Drill only as deep as necessary to go through the metal.
- C. Attach the serial number plate using four (4) #6 x 3/8" sheet metal screws and a Phillips head screwdriver (see Figure 16).

IMPORTANT: Do not remove the old serial number plate.

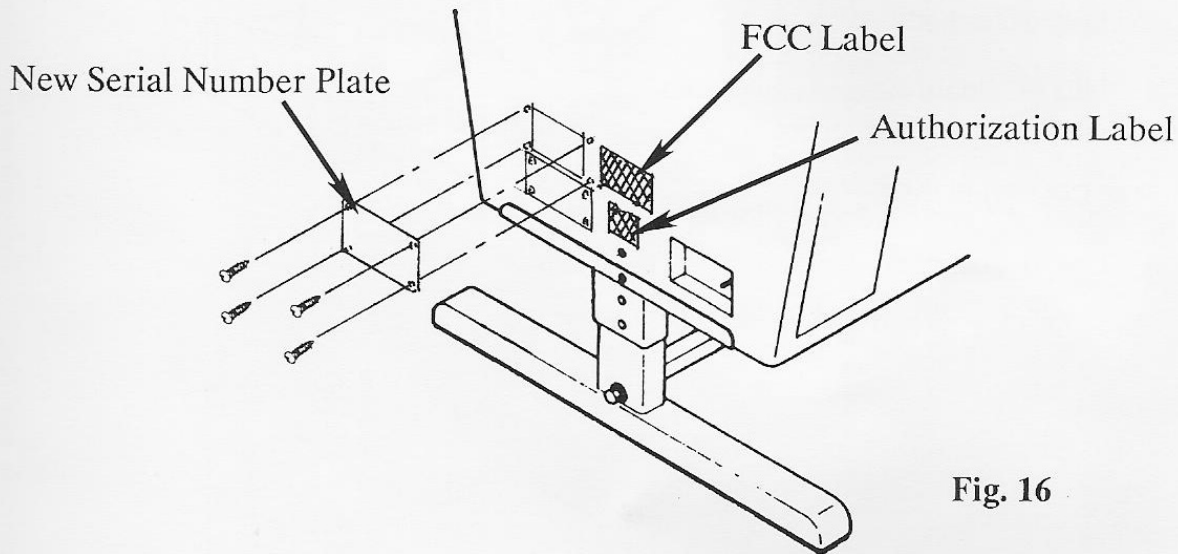


Fig. 16

13. Attach the FCC Class A Label (see Figure 16)

Remove the paper backing and adhere the new FCC label to the right of the new serial number plate.

14. Attach the Authorization Sticker

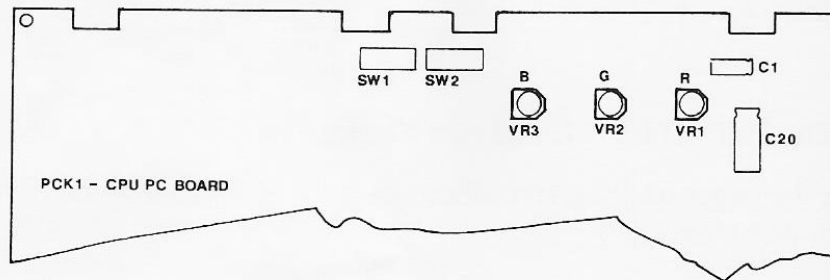
Remove the paper backing of the authorization sticker and adhere it just under the FCC label (see Figure 16).

V. Final Check Sheet and Adjustments

- 1. New serial number plate installed (MANDATORY).
- 2. New FCC Label installed (MANDATORY).
- 3. PC Board adjustments made.
(See pc board adjustments page 17).
- 4. Monitor adjustments made
(See pc board adjustments page 18-19).
- 5. Coins give credit.
- 6. Controls on operation panel functioning.
- 7. Sound checked.
- 8. LED PC Board indicate player time.

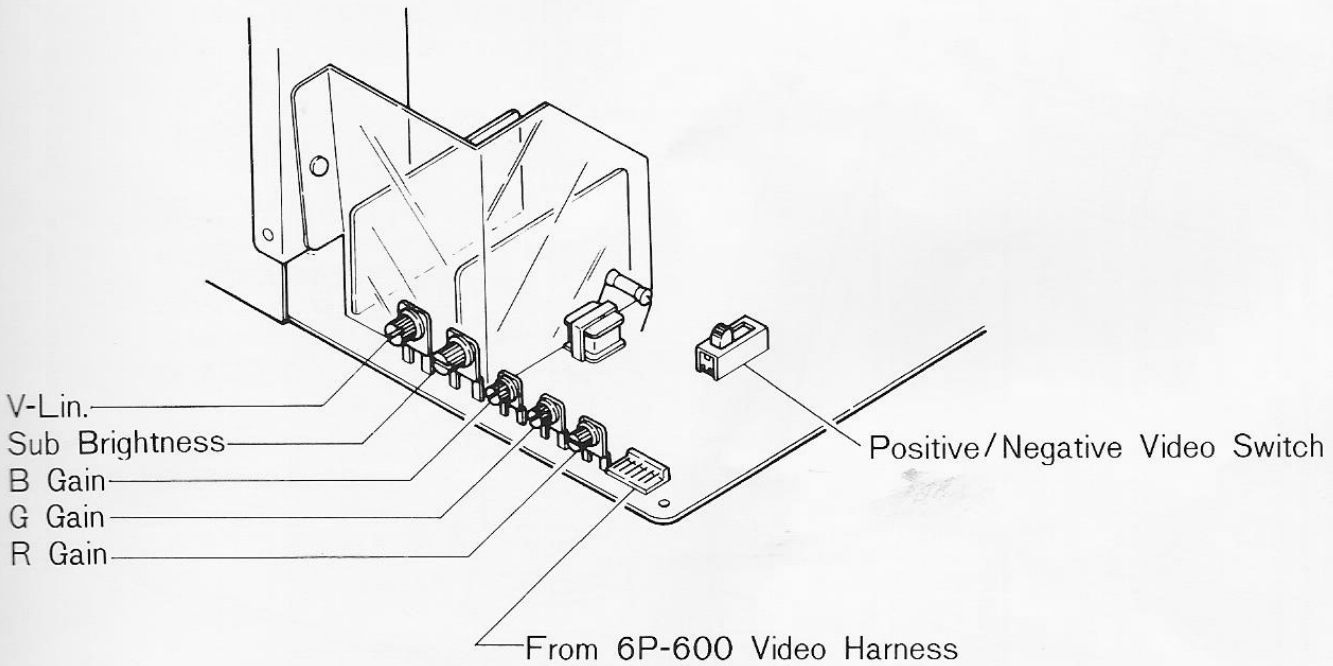
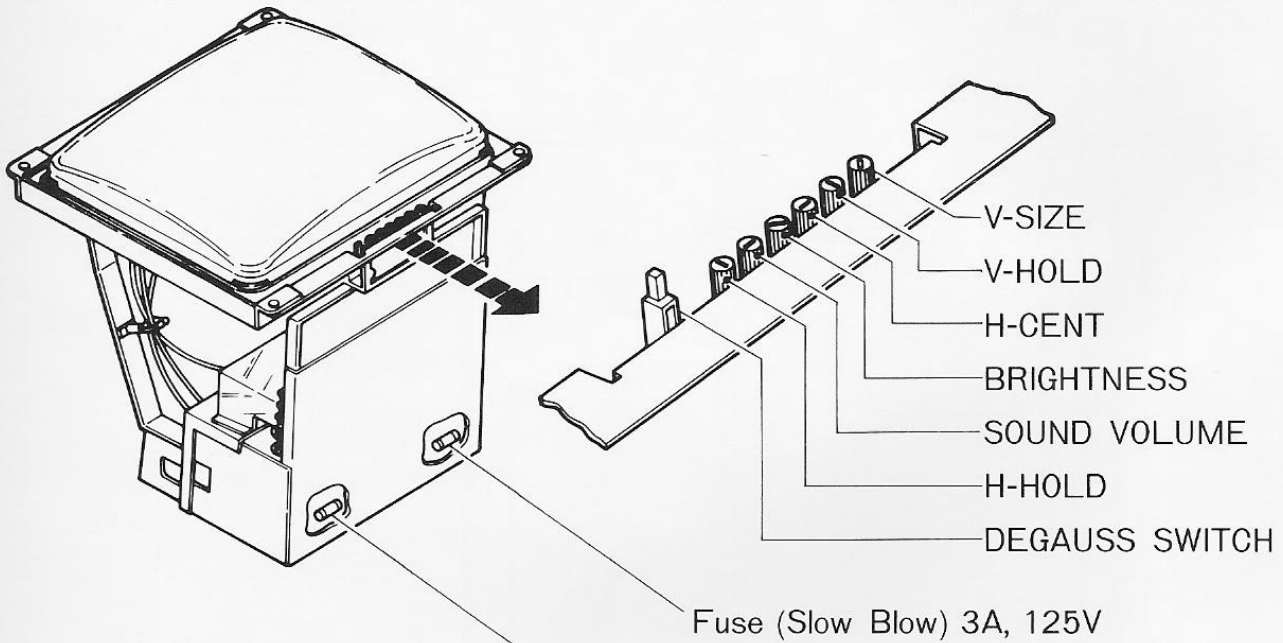
1. PCK-CPU PC BOARD

A Color Adjustment



The fixed variable registers (VR 1, VR 2, VR 3) have already been preset and do not need adjustment. If, however, color does not seem correct, VR1, VR2 and VR3 may be adjusted.

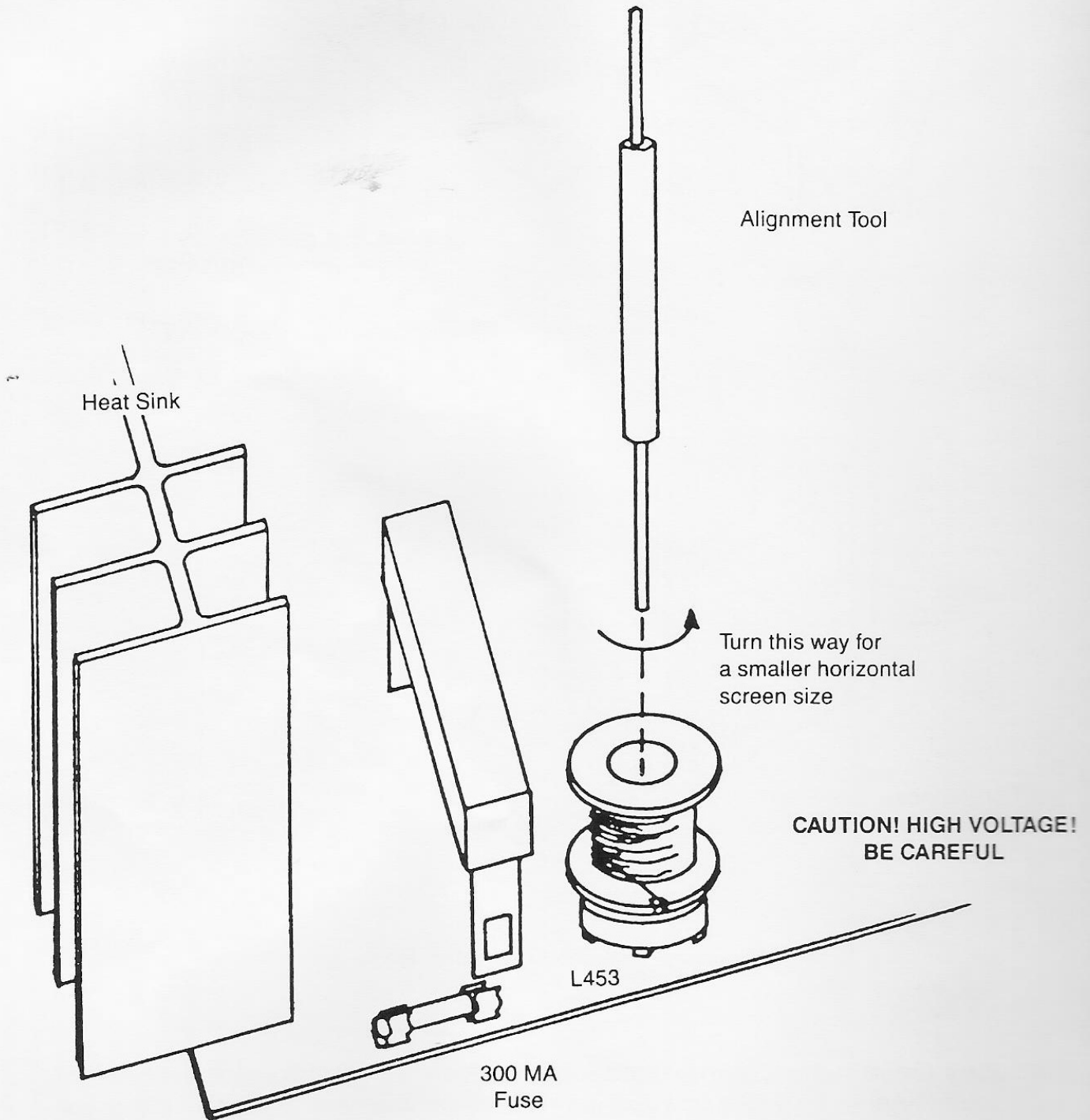
Adjustment of Video Monitor



Caution: Do not touch the inside of the video monitor, since extremely high voltages are present.
Only a qualified service technician should attempt repairs if problems exist.

Adjustment of Horizontal Width

Using a standard 2.6mm hex non-conductive core alignment driver, carefully turn L453 counter-clockwise for a small horizontal screen size. L453 is located in the rear of the monitor just under the deflection yoke.



III. Reorder Parts List

PlayChoice MDS-TBL Kit

| Order # | Description |
|---------|--------------------------------------|
| 4468 | CARD SPACER, KGLS-4S BLACK |
| 7933 | HARNESS, EDGE CONN 36P (PCKG) 080 |
| 8496 | PCB, PCK1-LED COMPLETE ASSY (PCKCT) |
| 8510 | PCB, PCK1-CPU COMPLETE ASSY |
| 8765 | HARNESS, 080 4p PT POWER |
| 8766 | FUSE, 5A 125V SLOW BLOW |
| 8781 | LABEL, PLAY (PCKDT) |
| 8782 | BRACKET, LED PCB TABLE (PCKDT) |
| 8783 | LABEL, DIP SWT (PCK1) |
| 8785 | HARNESS, EDGE CONN TBL44P080 (PCKDT) |
| 632 | LOCK, K6510 |
| 639 | CAM, B31R |
| 18058 | DOOR, PCB BOX (PCKDT) |
| 18059 | BOX, PCB (PCKDT) |
| 18060 | GUIDE, PCB WOOD (18059) LEFT |
| 18061 | GUIDE, PCB WOOD (18059) RIGHT |
| 8787 | MANUAL, CONVERSION (PCKDT) |
| 8842 | BOX, PCKDT-M |
| 18062 | TEMPLATE, (PCKDT) |
| 18133 | HARNESS, 9P-080PP JUNCTION |
| 8761 | BASE, POWER SUPPLY 080 |
| 8762 | COVER, 080 POWER SUPPLY |
| 8763 | HARNESS, 9P-080 POWER |
| 8764 | HARNESS, 080 4P PP POWER |
| 8931 | POWER SUPPLY, SA40-1304 |

Power Supply (SA40-1304)

| Order # | Description (Reference Designations & Locations) | |
|---------|--|-------------|
| 18317 | RECTIFIER, DIODE RGP 10B | D9 |
| 18318 | RECTIFIER, DIODE 1N 4001 GP | D12-D13 |
| 18319 | RECTIFIER, DIODE GP10A | D3 |
| 18320 | RECTIFIER, BRIDGE KBP08 | DB1 |
| 2076 | RES. CARBON 10 OHM 1/4 W 5% | R10-R28-R32 |
| 2078 | RES, CARBON 1K 1/4 W 5% | R5 |
| 18321 | RES, CARBON 15 OHM 1/4 W +/- 5% | R11 |
| 2103 | RES, CARBON 22 OHM 1/4 W 5% | R27 |
| 2111 | RES, CARBON 27 OHM 1/4 W 5% | R8 |
| 2112 | RES, CARBON 270 OHM 1/2 W +/- 5% | R15-R16 |
| 2121 | RES, CARBON 330 OHM 1/4 W 5% | R18-R21 |
| 7247 | RES, CARBON 47 OHM 1/4 W 5% | R14 |
| 2133 | RES, CARBON 470 OHM 1/4 W 5% | R22 |
| 2136 | RES, CARBON 470K OHM 1/2 W 5% | R1 |
| 4713 | RES, CARBON 56 OHM 1/4 W 5% | R19 |
| 18322 | RES, CARBON 5.6 OHM 1/4 W +/- 5% | R13 |
| 2148 | RES, CARBON 68 OHM 1/4 W 5% | R20-R9 |
| 18323 | RES, CARBON 8.2 OHM 1/4 W +/- 5% | R17 |
| 18324 | RES, M. FILM .75 OHM 1 W +/- 5% | R12 |
| 18325 | RES, M. FILM 1 OHM 1 W +/- 5% | R7 |
| 18326 | RES, M. FILM 18K OHM 1/4 W +/- 1% | R25 |
| 18327 | RES, M. FILM 2.7K OHM 1/4 W +/- 1% | R24 |
| 18328 | RES, M. FILM 8.2K OHM 1/4 W +/- 1% | R23 |
| 1997 | RES, OXIDE 100K OHM 1 W +/- 5% | R3-R4 |
| 18329 | RES, OXIDE 120 OHM 2 W +/- 5% | R6-R29 |
| 18330 | RES, WIRE WD 15 OHM 5 W +/- 5% | R30 |
| 18331 | RES, WIRE WD 33 OHM 3 W +/- 5% | R2 |
| 18292 | CAP, CERAMIC 100 PF 3KV +/- 20% | C9 |
| 18293 | CAP, CERAMIC .01 MF 100V + 80 - 20% | C23 |
| 18294 | CAP, CERAMIC 330P 100V +/- 20% | C18 |
| 18295 | CAP, ELECTRO 100 MF 25V +/- 20% RADIAL | C14 |
| 18296 | CAP, ELECTRO 1000 MF 16V +/- 20% RADIAL | C20 |
| 18297 | CAP, ELECTRO 1000 MF 10V +/- 20% RADIAL | C15 |
| 18298 | CAP, ELECRO 1000 MF 10V +/- 20% RADIAL | C17 |
| 18299 | CAP, ELECTRO 220 MF 10V + 100 - 10% RADIAL | C8 |
| 18300 | CAP, ELECTRO 2200 MF 16V +/- 20% RADIAL | C12 |
| 18301 | CAP, ELECRO 470 MF 16V +/- 20% RADIAL | C19 |
| 18302 | CAP, POLYESTER .01 MF 50V +/- 5% | C13 |
| 18303 | CAP, MP .1 MF 250V +/- 20% | C1-C2 |
| 18304 | CAP, POLYESTER 2200P 250V +/- 20% | C3-C4 |
| 18305 | CAP, POLYESTER .022 MF 50V +/- 20% | C16 |
| 18306 | CAP, MP 0.022 MF 250V +/- 20% | C10 |
| 18307 | CAP, POLYESTER .22 MF 100V +/- 20% | C11-C21 |

Power Supply (SA40-1304) - con't

| Order # | Description (Reference Designations & Locations) | |
|---------|--|-----------|
| 18308 | CAP, MPR 2200P 250V +/- 20% | C5 |
| 18309 | FUSE, F2A 250V (SA40-1304) | F1 |
| 18310 | CONN. 4 PIN (SA40-1304) | TB2 |
| 7161 | TRANSISTOR, 2SC 2120 | Q1 |
| 18311 | TRANSISTOR, 2SB 561 | Q3 |
| 18312 | REGULATOR, 431 | IC1 |
| 18313 | DIODE, SI IN4606 | D11-D6-D7 |
| 18314 | DIODE, ZENER 5.6V 240 MA +/- 5% | Z1 |
| 18315 | RECTIFIER, DIODE RGP10A | D1 |
| 18316 | RECTIFIER, DIODE RGP10J | D2-D4-D5 |
| 18332 | RES, VARIABLE 1K OHM TOP ADJUST | VR1 |
| 18333 | THERMIST, 8R +/- 20% | TM1-TM2 |
| 18334 | COIL, CHOKE 1.5 MH | L4 |
| 18335 | COIL, CHOKE 2.2 UH | L3 |
| 18336 | TRANSFORMER, CONTROL ASSY | T3 |
| 18337 | TRANSFORMER, POWER AC8154 | T2 |
| 18338 | TRANSFORMER, COM MODE ASSY | T1 |
| 18339 | COIL, CHOKE ASSY0 | L5 |
| 18340 | COIL, CHOKE FILTER | L6 |
| 18341 | RECTIFIER, HEAT SINK ASSY | D10 |
| 18342 | TRANSISTOR, 2SD1494 HEAT SINK ASSY | Q2 |
| 18343 | REGULATOR, UA7912 | IC2 |
| 18344 | DIODE, SCK 12CTQ035 | D8 |
| 18345 | SCR, 2N6395 | SCR1 |

MAIN PC BOARD — PLAYCHOICE

| PART NUMBER | ORDER NO. | DESCRIPTION (Reference Designations and Locations) |
|-------------|-----------|---|
| PCKU-21-01 | 7929 | PCK1 CPU Complete PCB Assembly |
| PCHU-21-11 | 946 | Z80A Microprocessor (5X) |
| PCHU-21-12 | 945 | RP2A03E Microprocessor (1H) |
| PCHU-21-13 | 4460 | RP2C03B PPU (3H) |
| PCKU-21-14 | 7936 | 27128 16K-Byte EP-ROM 300ns PCK 1-C-8T (8T) |
| PCKU-21-15 | 7937 | 2764 8K-Byte EP-ROM 300ns PCK 1-C-8K (8K) |
| PCKU-21-16 | 7938 | 2764 8K-Byte EP-ROM 300ns PCK 1-C-8M (8M) |
| PCKU-21-17 | 7939 | 2764 8K-Byte EP-ROM 300ns PCK 1-C-8P (8P) |
| PCHU-21-18 | 2060 | TMM2115BP-15 2K-Byte RAM 150ns (2K) |
| PCHU-21-19 | 2061 | HM6116 ASP-20 2K-Byte RAM 200ns (4K, 8R, 8V) |
| PCHU-21-20 | 4811 | TC5517 CPL-20 2K-Byte C-MOS RAM 200ns (8W) |
| PCKU-21-21 | 7940 | N82SI29N 256 × 4-Bit Bipolar ROM PCK1-C-6D (6D) |
| PCKU-21-22 | 7941 | N82SI29N 256 × 4-Bit Bipolar ROM PCK1-C-6E (6E) |
| PCKU-21-23 | 7942 | N82SI29N 256 × 4-Bit Bipolar ROM PCK1-C-6F (6F) |
| PCHU-21-24 | 2189 | 74LS00 Quad 2-Input NAND (5H, 8J, 6U) |
| PCHU-21-25 | 2190 | 74LS02 Quad 2-Input NOR (4U) |
| PCHU-21-26 | 2191 | 74LS04 Hex Inverters (8D, 3G, 8G, 5J, 7R, 7Y, 4) |
| PCHU-21-27 | 2193 | 74LS08 Quad 2-Input AND (7X) |
| PCHU-21-28 | 2195 | 74LS11 Triple 3-Input AND (5P) |
| PCHU-21-29 | 2196 | 74LS14 Hex Schmitt Inverters (4V) |
| PCHU-21-30 | 2202 | 74LS32 Quad 2-Input OR (7C, 5T) |
| PCHU-21-31 | 2203 | 74LS42 4 To 10 Decoders (4T) |
| PCHU-21-32 | 2204 | 74LS55 2-Wide 4-Input AND-OR-INVERT Gates (5K) |
| PCHU-21-33 | 2205 | 74LS74A Dual "D" Flip-Flops (P, CL) (7J, 7K, 5M) |
| TPP2-06-20 | 2208 | 74LS86 Quad 2 Input EX-OR (4M) |
| PCHU-21-34 | 2210 | 74LS109A Dual J-K Flip-Flops (PLE, CL) (4Y) |
| PCHU-21-35 | 2216 | 74LS139 Dual 2 To 4 Decoders (7H, 2L, 6T) |
| PCHU-21-36 | 2220 | 74LS157 Quad 2 To 1 Data Selectors (7S, 7T, 7U, 7V) |
| PCHU-21-37 | 2223 | 74LS161A 4-Bit Binary Counters (6H, 6J, 6K, 6L, 6M, 4R) |
| PCHU-21-38 | 2225 | 74LS164 8-Bit Shift Registers (8H, 5Q) |
| PCHU-21-39 | 2226 | 74LS165A 8-Bit Shift Registers (8B, 8C, 7F) |
| PCHU-21-40 | 2228 | 74LS175 Quad "D" Flip-Flops (CL) (4S) |
| PCHU-21-41 | 2229 | 74LS194A 4-Bit Shift Registers (6Q, 6R) |
| PCHU-21-42 | 2230 | 74LS240 Octal Bus Inverters (TS) (5A, 6A, 7B) |
| PCHU-21-43 | 2232 | 74LS244 Octal Buffers & Line Drivers (TS) (6B, 1L, 2M, 3M, 8S, 5V, 6) |
| PCHU-21-44 | 2233 | 74LS245 Octal Bus Transceivers (TS) (1K, 6Z) |
| PCHU-21-45 | 2235 | 74LS259 8-Bit Addressable Latches (7D, 7E) |
| PCHU-21-46 | 2239 | 74LS299 8-Bit Shift/Storage Registers (7L, 7N, 7Q) |
| PCHU-21-47 | 2242 | 74LS367A Hex Bus Drivers (4L) |
| PCHU-21-48 | 2243 | 74LS368A Hex Bus Drivers (8E, 8F, 5S) |
| PCHU-21-50 | 2247 | 74LS377 Octal "D" Flip-Flops (6P) |
| PCHU-21-51 | 2267 | 74S04 Hex Inverters (2G, 6N) |
| PCHU-21-52 | 2259 | 7437 Quad-2-Input NAND Buffers (4X) |
| PCHU-21-53 | 2278 | 75471 Dual Peripheral AND Drivers (6C) |
| PCHU-21-54 | 4812 | 74HC10 Triple 3-Input NAND C-MOS (8Y) |
| PCKU-21-55 | 8004 | TC74HC373 Octal 3-State D-Latches C-MOS (3K) |
| PCKU-21-55 | 1143 | PST518A Low Voltage Detector (7Z) |
| PCHU-21-56 | 1445 | LM324 Quad Operational Amplifiers (3E) |
| PCHU-21-57 | 1443 | LM3900 Quad Operational Amplifiers (1E) |

MAIN PC BOARD (CONTINUED)

| PART NUMBER | ORDER NO. | DESCRIPTION (Reference Designations and Locations) |
|-------------|-----------|---|
| CKU-21-57 | 7943 | TC 4053BP Triple 2-Channel Multiplexer C-MOS (5C) |
| CHU-21-58 | 735 | CD 406 6B Quad Analog Switches C-MOS (3C) |
| CHU-21-59 | 2178 | 2SA933 Silicon PNP Transistor (Q11, Q12, Q14, Q15, Q17, Q18) |
| CHU-21-60 | 2179 | 2SA1015 Silicon PNP Transistor (Q3, Q5, Q7, Q20) |
| CHU-21-61 | 2184 | 2SC1740 Silicon NPN Transistor (Q8~Q10, Q13, Q16, Q19, Q20~Q26) |
| CHU-21-62 | 2185 | 2SC1815 Silicon NPN Transistor (Q1, Q2, Q4, Q6) |
| CHU-21-63 | 1003 | ES1F Diode (D1) |
| CHU-21-64 | 1012 | 1S5277B Diode (D3, D4) |
| CHU-21-65 | 4813 | EG01Y Diode (D2) |
| CHU-21-66 | 1002 | DAN401 Quad Cathode-Common Diode Array (DA1~DA8) |
| CHU-21-67 | 4817 | 1.0f 5.5V Electric Double Layer Capacitor (EEC F5R 5U105) (C3) |
| CHU-21-68 | 680 | 68pf 50V Ceramic-Disc Capacitor (D44) |
| CHU-21-69 | 663 | 100pf 50V Ceramic-Disc Capacitor (C35, C36, C46, C71) |
| CHU-21-70 | 669 | 180pf 50V Ceramic-Disc Capacitor (C11, C39) |
| CHU-21-71 | 675 | 330pf 50V Ceramic-Disc Capacitor (C2, C6, C40, C41) |
| CKU-21-71 | 7945 | 470pf 50V Ceramic-Disc Capacitor (C12) |
| CHU-21-72 | 664 | 1000pf 50V Ceramic-Disc Capacitor (C5) |
| CHU-21-73 | 665 | 0.01uf 50V Ceramic-Disc Capacitor (C4, C22, C38, C43, C80~C83, C86~C89, C91, C92, C94~C101, C103~C108, CC110~C120, C122~C126, C128, C130~C144, C146, C148~C156, C158~C163, C165~C187) |
| CHU-21-74 | 4815 | 0.047uf 50V Ceramic-Disc Capacitor (C15~C17) |
| CHU-21-75 | 655 | 0.2uf 12V Ceramic-Disc Capacitor (C21) |
| CHU-21-76 | 716 | 0.047uf 50V Film Capacitor (C33, C34) |
| CHU-21-77 | 685 | 1uf 16V Al Electrolytic Radial Cap. (C7, C8) |
| CHU-21-78 | 689 | 3.3uf 16V Al Electrolytic Radial Cap. (C13, C14, C25, C28, C31, C32) |
| CHU-21-79 | 683 | 10uf 16V Al Electrolytic Radial Cap. (C23, C24, C26, C27, C29, C30, C37, C42) |
| CHU-21-80 | 688 | 33uf 16V Al Electrolytic Axial Cap. (C9) |
| CHU-21-81 | 4818 | 47uf 16V Al Electrolytic Radial Cap. (C47~C50) |
| CHU-21-82 | 684 | 100uf 16V Al Electrolytic Axial Cap. (C46) |
| CHU-21-83 | 4819 | 100uf 25V Al Electrolytic Axial Cap. (C70) |
| CHU-21-84 | 687 | 220uf 16V Al Electrolytic Axial Cap. (C1) |
| CHU-21-85 | 691 | 470uf 16V Al Electrolytic Axial Cap. (C20) |
| CHU-21-86 | 4820 | 3.3uf 16V Tantalum Electrolytic Cap. (C85, C90, C93, C102, C109, C121, C127, C145, C157) |
| CHU-21-87 | 2075 | 0 Ohm Shunt Lead (R99) |
| CHU-21-88 | 2076 | 10 Ohm 1/4W ± 5% Resistor (R7) |
| CHU-21-89 | 2120 | 33 Ohm 1/4W ± 5% Resistor (R32, R37) |
| CHU-21-90 | 2137 | 51 Ohm 1/4W ± 5% Resistor (R8, R19, R23, R27, R31) |
| CHU-21-91 | 2077 | 100 Ohm 1/4W ± 5% Resistor (R17, R68, R69, R73) |
| CHU-21-92 | 2082 | 110 Ohm 1/4W ± 5% Resistor (R3) |
| CHU-21-93 | 2121 | 330 Ohm 1/4W ± 5% Resistor (R13, R14, R18, R21, R25, R29, R36, R90, R91, R97, R93, R110, R111, R112) |
| CHU-21-94 | 2138 | 510 Ohm 1/4W ± 5% Resistor (R46, R56, R66) |
| CHU-21-95 | 2155 | 820 Ohm 1/4W ± 5% Resistor (R1, R2) |
| CHU-21-96 | 2078 | 1K Ohm 1/4W ± 5% Resistor (R94~R96, R120~R131) |
| CHU-21-97 | 2099 | 2K Ohm 1/4W ± 5% Resistor (R15, R87, R109) |
| CHU-21-98 | 2105 | 2.2K Ohm 1/4W ± 5% Resistor (R35, R40, R42, R50, R45, R52, R55, R60, R62, R65) |
| CHU-21-99 | 2134 | 4.7K Ohm 1/4W ± 5% Resistor (R43, R53, R63) |
| CHU-21-100 | 2139 | 5.1K Ohm 1/4W ± 5% Resistor (R4, R5, R22, R26, R30, R88, R89) |
| CHU-21-101 | 2152 | 7.5K Ohm 1/4W ± 5% Resistor (R16) |