VS. UniSystem™

KIT MANUAL

Nintendo

FOR INSTALLATION IN













WARNING

If the replacement parts and components in this VS. UniSystem™ kit are not installed exactly as instructed herein, there may be radio frequency interference created in violation of F.C.C. class A standards.

WARNING

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a class A computing device pursuant to subpart J of part 15 of F.C.C. rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference; in which case, the user at his own expense will be required to take whatever measures may be required to correct the interference.

WARNING

Use of non-Nintendo parts or modifications to your VS. UniSystem™ parts and components may adversely affect the safety of your game, and may cause injury to your players.



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i. INTRODUCTION

VS. UniSystem™ kit

VS. UniSystem™ kit enables you to change Donkey Kong*, Donkey Kong Jr.*, Mario Bros.*, Donkey Kong 3*, and Popeye** into a VS. UniSystem* in less than one hour. A VS. UniSystem* will use any non-interactive VS.-Pak*.

Before you begin, be sure you are properly prepared. Make certain you have selected the proper VS. UniSystem* kit for the particular game you are replacing. Next 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.

NOTE: This VS. UniSystem™ kit is not usable on an original wide-body (700W) Mario Bros. game.

** A trademark of King Features Syndicate, Inc.

^{*} Donkey Kong, Donkey Kong Jr., Mario Bros., Donkey Kong 3, and VS. UniSystem are trademarks of Nintendo of America Inc.

II. Contents of VS. UniSystem kit

| Parts Name | Quantity | Remarks |
|---|----------|------------------------|
| MDS-CPU P.C. Board Assembly | 1 | without EPROMS and PPU |
| MGS-UP Operation Panel Assembly | 1 | with harness |
| MGS-UP Front Screen (600W) Assembly | 1 | |
| MGS-UP Side Decal | 2 | |
| VS. UniSystem™ Manual | 1 | |
| 062 Shield Cover Complete Assembly | 1 | |
| 072-36P Edge Connector Harness | 1 | |
| 072-44P Edge Connector Harness Assembly | 1 | |
| MGS Serial Number Plate | 1 | |
| Flat Cable Tie | 1 | |
| Wood Screw 3.1 x 10 | 4 | |
| FCC Class-A Label | 1 | |
| FBI Sticker | 1 | |
| Following parts are for TKG, DJR, DKC, TMA only | | |
| 054 Shield Cage | 1 | |
| Video Monitor Bracket (L) | 1 | |
| Video Monitor Bracket (R) | 1 | |
| Video Monitor Support Bar | 2 | |
| Blind Cardboard (large) | 1 | |
| Carriage Bolt 6 x 30 | 6 | |
| Cap Nut M6 | 6 | |
| Cap Nut M5 | 4 | |
| Machine Screw 5 x 12 | 4 | |
| Wood Screw 3.5 x 13 | 9 | |
| Ground Wire (E) | 1 | |
| Hole Template | 1 | |
| Following parts are for TPP only | | |
| Power Supply and Transformer Assembly | 1 | 821B-7B Power Assembly |
| Fuse Set | 1 | |
| | | |
| | | |

III. List of Tools Needed

Flat (standard) screwdriver

Phillips screwdriver

7mm nut driver

8mm nut driver

10mm nut driver

1/4" or 6.5mm drill bit

Electric reversing drill

Phillips bit (for drill)

Staple gun

Paper stapler

Lacquer thinner

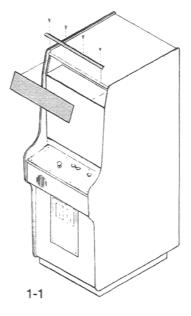
Denatured alcohol or other cleaner

Large wire cutter

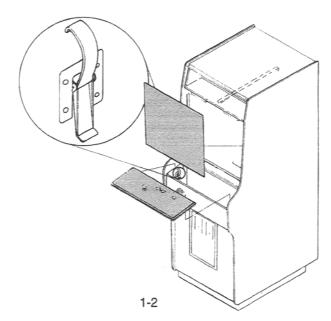
Note: Many steps require the use of a phillips screwdriver and having a phillips screwdriver bit for your drill will greatly speed up these steps.

IV. Step-by-step instructions

- 1. Remove marquee/header (see illustration 1-1)
 - A. Remove four (4) top trim screws
 - B. Remove marquee plexiglass
 - C. Replace marquee/header with new VS-Pak header
 - D. Replace top trim and four (4) top trim screws

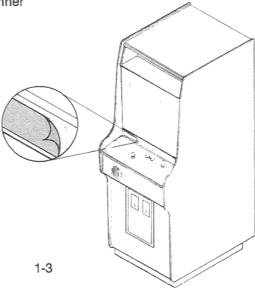


- 2. Remove old control panel and front screen (see illustration 1-2)
 - A. Undo control panel holddown clamps
 - B. Disconnect harness and remove control panel
 - Remove front screen by sliding back front screen clamp (access from back door)



Note: For Donkey Kong, Donkey Kong Jr. ONLY

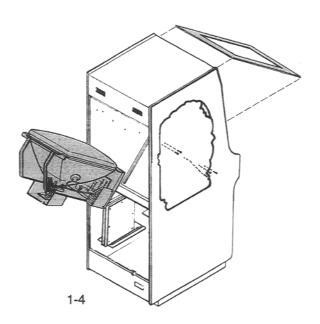
- 3. Remove instruction label (see illustration 1-3)
 - A. Spray label with lacquer thinner
 - B. Wait 15 minutes and remove with putty knife
 - C. Clean area with cloth and lacquer thinner

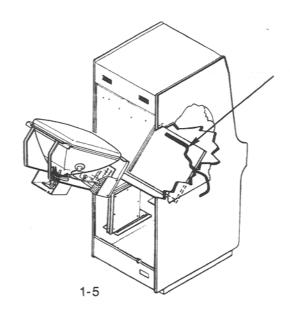


Note: For Donkey Kong, Donkey Kong Jr. and Donkey Kong 3 ONLY

4. Remove monitor

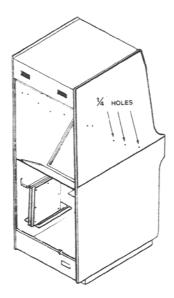
- A. Unplug monitor connections and undo wire ties
- B. Remove blind cardboard on monitor only
- C. Remove monitor, upper monitor support bar and all carriage bolts (see illustration 1-4)
- D. Remove old side decal
- E. IMPORTANT! Disconnect monitor ground wire at location shown in illustration (see illustration 1-5)





Note: For Donkey Kong, Donkey Kong Jr. and Donkey Kong 3 only.

5. Side panels should have five (5) holes each. If your game has only two (2) holes, use template provided in kit and drill three (3) 1/4-inch or (3) 6.5-mm holes where indicated (see illustration 1-6).

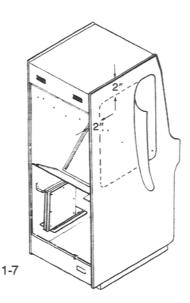


1-6

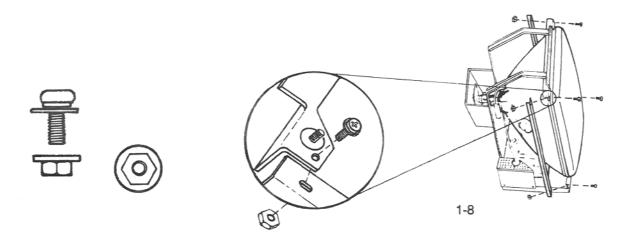
Note: This step is for all games

With old side decals removed, clean side panel with alcohol and install new VS. UniSystem
decals. Decals are placed parallel to top and back of game 2" from edge. (See illustration
1-7)

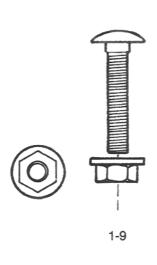
See decal application sheet on page 18

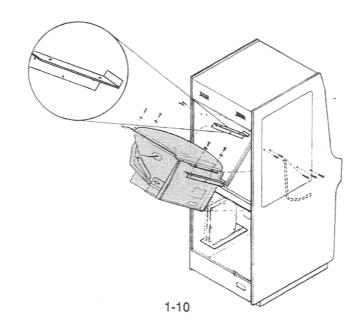


7. Install side support bars on monitor (see illustration 1-8)



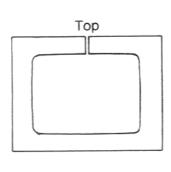
- A. Install new horizontal monitor mounting brackets to side panel with flange toward front of cabinet and pointing up. Note: use carriage bolt as shown (see illustration 1-9 & 1-10)
- B. Install monitor in horizontal position
- C. Monitor is placed on top of side bracket supports
- D. IMPORTANT! Reconnect the monitor ground wire (disconnected in step 4E) to carriage bolt shown (see illustration 1-10)

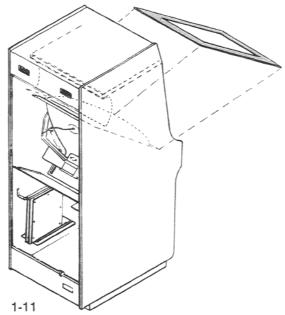




Note: For Donkey Kong, Donkey Kong Jr. and Donkey Kong 3 ONLY

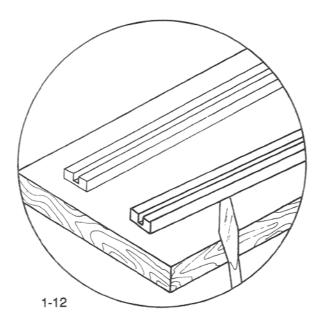
- 8. Install new blind cardboard (see illustration 1-11)
 - A. Remove adhesive backing on tape. Center blind cardboard on monitor and adhere. Place staple on top.

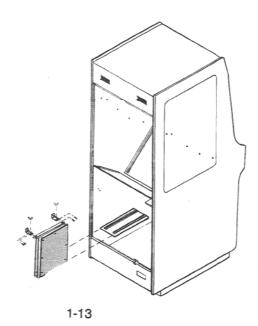




NOTE: For Donkey Kong and Donkey Kong Jr. ONLY

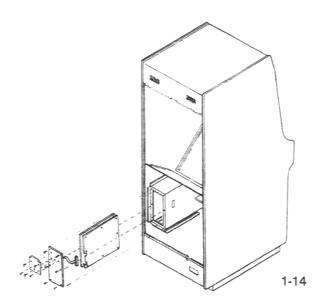
- Remove old P.C. Board set and mounting brackets and old wire harness (see illustration 1-13)
 - A. If P.C. Board wood shelf has slots made from square stock wood, remove these (see illustration 1-12)
 - B. Remove old Main Wire Harness





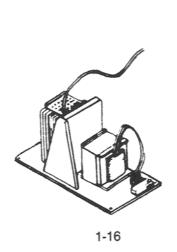
NOTE: For Mario Bros. and Donkey Kong 3 ONLY

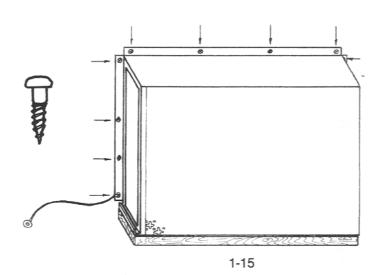
10. Remove old Shield cage assembly including Shield cover and old P.C. Board set



NOTE: For Donkey Kong, Donkey Kong Jr., Mario Bros. and Donkey Kong 3 ONLY.

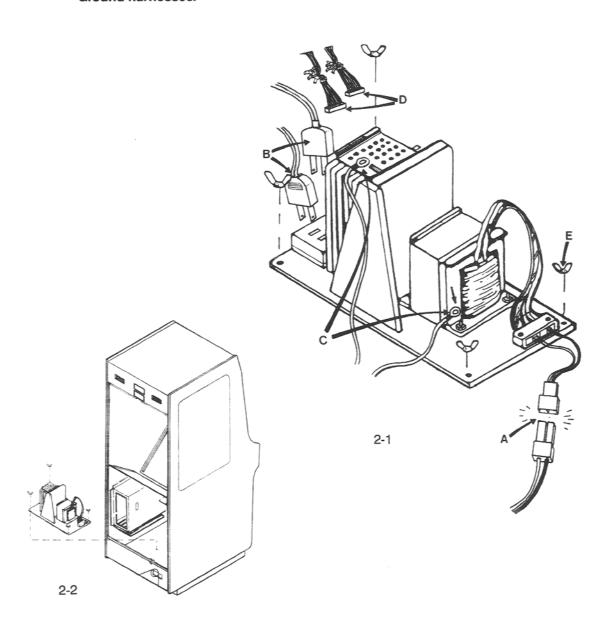
11. Install new Shield cage so it is flush with rear of wood shelf and fasten with six (6) screws provided. IMPORTANT! On lower left corner install ground harness and connect the other end to the mounting bolt on the power supply as shown (see illustration 1-15 & 1-16)





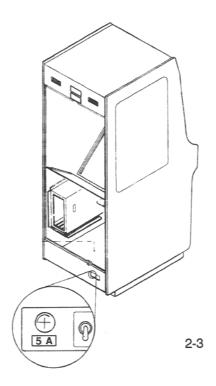
These steps are for Popeye ONLY

- 12. If you are replacing a Popeye game, remove old power supply transformer assembly (see illustration 2-1 & 2-2)
 - A. Disconnect connector from switch plate
 - B. Diconnect both plugs for monitor and lamp
 - C. Disconnect ground harness connections
 - D. Disconnect both power harness connections
 - E. Remove four (4) wing nuts and take out old power supply
 - F. Replace with new power supply assembly and tighten wing nuts NOTE: Bolts for wing nuts may push through bottom of game during mounting of new power supply unit. If this happens, simply push them back up when power supply assembly is in place.
 - G. Reconnect Steps A, B, & C being careful to get a good connection on Step C. Ground harnesses.



These steps are for Popeye ONLY

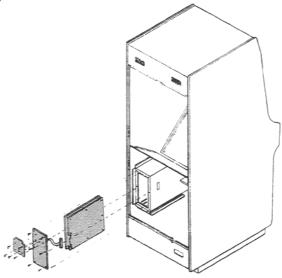
13. Change fuse to 5 AMP and change label to 5 AMP on switch plate (see illustration 2-3)



- 14. Remove old P.C. Board assembly and old Main Wire Harness (see illustration 2-4)
 - A. Remove the six (6) machine screws that hold on the Shield cover.

IMPORTANT: Save these machine screws

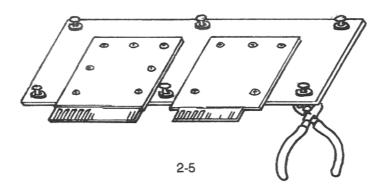
- B. Remove Shield cover and complete P.C. Board assembly.
- C. Remove old Main Wiring Harness.



2-4

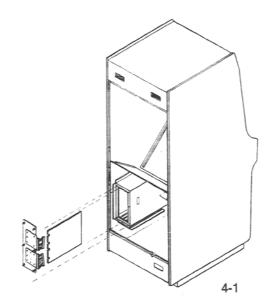
IMPORTANT!! This step is for Popeye ONLY

- 15. Modify new Shield Cover Assy to fit old Shield Cage (see illustration 2-5)
 - A. Cut off six Fasteners on perimeter of Shield Cover Assy
 - B. To install Shield Cover use six (6)machine screws from step 14A.



NOTE: This step is for all games

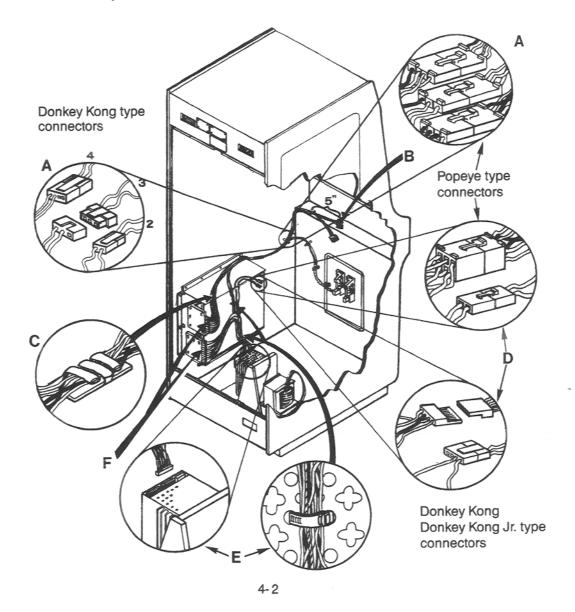
- 17. Install new MDS P.C. Board and shield cover assembly (see illustration 4-1)
 - A. Attach short harnesses to P.C. Board with 36 pin connector on top
 - B. Slide P.C. Board into Shield cage grooves
 - C. Do not fasten Shield cover until after final check sheet and adjustments Section V is completed

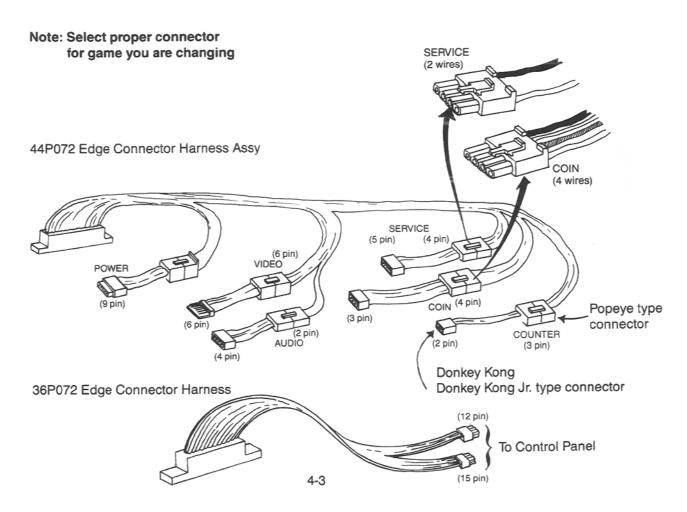


NOTE: These steps are for all games

17. Connection of Harnesses (see illustration 4-2)

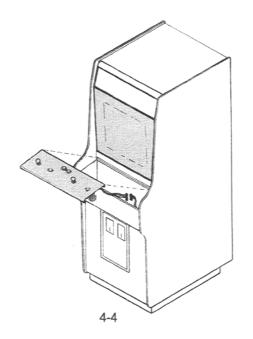
- A. Connect Coin, Service. Counter harnesses to 44P072 Edge harness.
 Note: Harnesses are different for Popeye type and Donkey Kong or Donkey Kong Jr. type (see illustration 4-3)
- B. Fasten Control Harness 072-36P to wire tie approximately 5" from connectors.
- C. Route Harnesses through existing wire ties
- D. Connect Sound and Video Harness from monitor to Edge Connector Harness
- E. Connect Power Harness to Power Supply (9 pin connector) and fasten Power Harnesses to Shield Cage with cable tie.
- F. Connect 44P Edge Connector Harness and 36P Edge Connector Harness to Cover Assy.





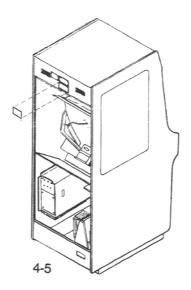
Note: These steps are for all games

- 18. Install new front screen and fasten with front screen clamp (see illustration 4-4)
- 19. Connect new VS. UniSystem control panel to harness and fasten down (see illustration 4-4)

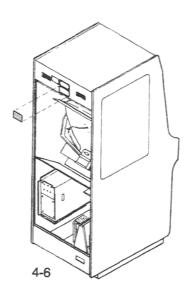


NOTE: These steps are for all games

 Screw on new serial number plate next to old plate.
 IMPORTANT! Do not remove old plate (see illustration 4-5)

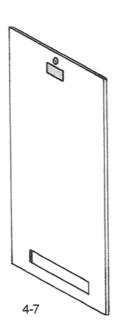


- 21. Attach FCC Class A label (see illustration 4-6)
 - A. Remove old FCC label
 - B. Put on new FCC label and staple all four corners



22. Attach FBI sticker

A. Place label on back door just under lock (see illustration 4-7)



Side Decal Application

Step 1.

Start by peeling the protective backing "A" down about 6 inches from the top.

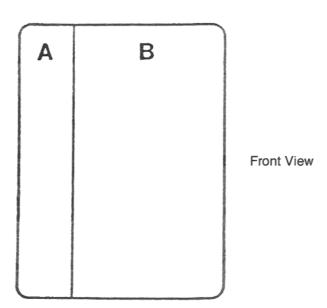
Place decal in desired position. Pull down slowly the remainder of the protective backing of "A."

While doing this, use a soft cloth to smooth decal onto side board, moving from top to bottom of decal.

Step 2.

Fold remaining decal back, exposing the unprinted side. Begin to peel protective backing "B" from center to right hand side "slowly."

Using soft cloth smooth decal onto side panel by running hand from top to bottom of decal, moving outward to the right hand side.



V. Final Check Sheet and Adjustments

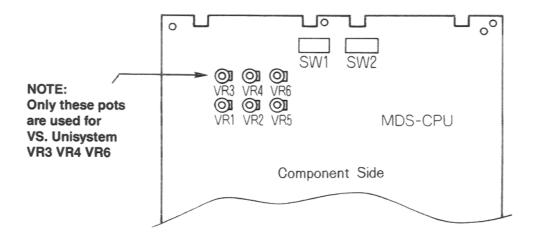
| 1. | FBI sticker installed (MANDATORY) |
|----|--|
| 2. | New serial number plate installed (MANDATORY) |
| 3. | New FCC label installed (MANDATORY) |
| 4. | Fuse label changed (Popeye only) |
| 5. | P.C. Board adjustments made (see P.C. Board adjustments page 20) |
| 6. | Monitor adjustments made (see monitor adjustments pages 21-22) |
| 7. | Coins give credit |
| 8. | Controls on operation panel functioning |
| 9. | Sound checked |

Adjustments

After powering up the game, you will probably find that the screen's horizontal width is too narrow and the vertical height is too small. To make adjustment to the horizontal width, refer to the illustration on page 21. To adjust the vertical height, use the V-size adjustment on the rear of the monitor to make the picture larger (see page 22).

MDS P.C. Board

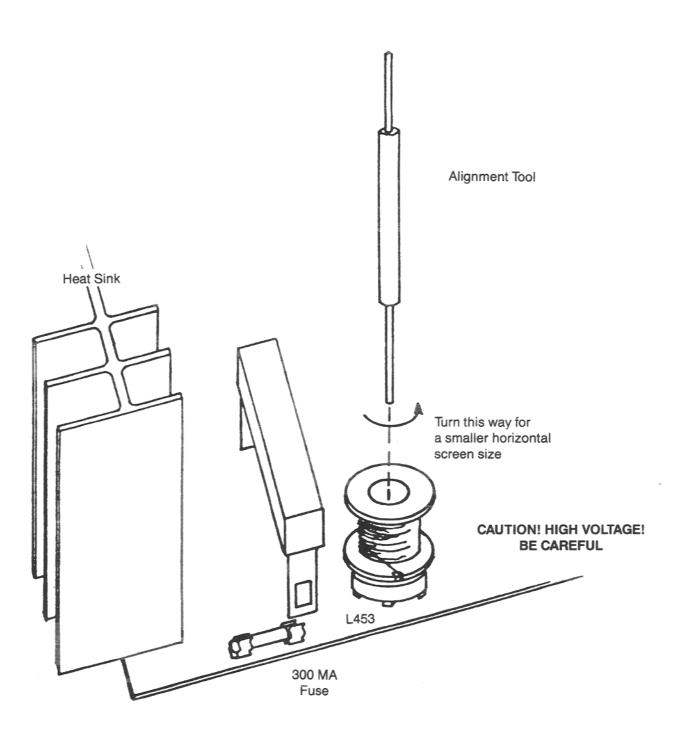
NOTE: Only SW2 is used for VS. UniSystem™ games



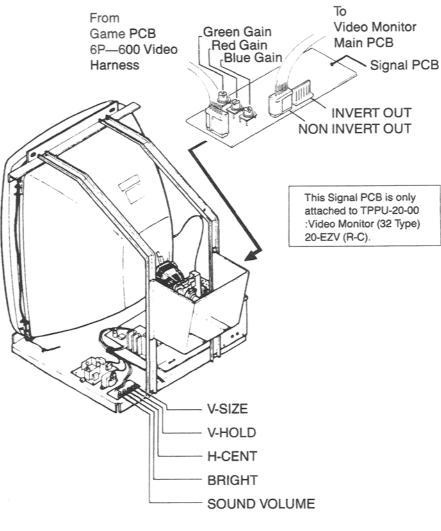
- **Cautions:** (1) Since the Dip Switch settings (SW2 only) may be changed by new game software, refer to the new game instructions in Operation Manual for VS. Pak.
 - (2) Do not touch the fixed variable resistors (VR1, VR2, VR3, VR4, VR5, and VR6), as they have already been preset and do not need adjustment.'
 - (3) If, however, color does not look correct, VR3, VR4, and VR6 may be adjusted.

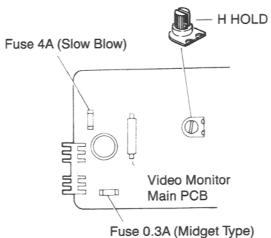
Adjustment of Horizontal Width

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



Adjustment of Video Monitor





WARNING _

Do not touch the inside of the Video Monitor. It contains many parts supplied with high voltage.



SERVICE DEPARTMENT

Dear Customers:

In addition to the steps you have already done, we felt it would benefit you if the previous cabinet and coin selector problems were checked to ensure the modifications had been done. Below is the list of service bulletins which deal with these problems.

We have included copies of these service bulletins:

| TKG-05 | Slam Switch | 4-18-82 |
|--------|--------------------------|---------|
| DJR-01 | Upper Coin Door Hinge | 8-24-82 |
| DJR-02 | Model 730A Coin Selector | 1-04-83 |
| DJR-05 | Video Wrap Around | 9-09-83 |

Sincerely,

Nintendo of America, Inc.



SERVICE DEPARTMENT BULLETIN # TKG.05

GAME:

Donkey Kong, Donkey Kong Junior, Popeye, Mario

Bros., Donkey Kong 3, VS System

SUBJECT:

Slam Switch

In order to prevent the accumulation of free credits by kicking the coin door, a slam switch should be added.

In all cases the switch (a "normally open" weighted reed switch) should be mounted on the coin door. Connect one side of the slam switch to the brown wire on the coin switch (ground). The other side of the slam switch should be connected to a wire which will be run through the wiring harness to the CPU board. At this point the installations vary for the six (6) games.

Donkey Kong:

TKG2 and TKG3: Attach to Test Point 8, at board coordinates $3L. \label{eq:tkg2}$

TKG4: Attach to Test Point 2-RESET, at board coordinates 1L.

Donkey Kong Junior:

Attach to Test Point 2-RESET, at board coordinates 1L.

Popeye:

Attach to C13 (47 μ F electrolytic capacitor), "+" side, at board coordinates 2N.

Mario Bros:

Attach to C38 (100 μ F electrolytic capacitor), "+" side, at board coordinates 4F.

Donkey Kong 3:

Attach to C25 (100 μ F electrolytic capacitor), "+" side, at board coordinates 2E.

VS. System

Attach to C3 (10μ electrolytic cap) "+" side, at board coordinates 1K.



SERVICE DEPARTMENT BULLETIN # DJR-01

GAME:

Donkey Kong Jr.

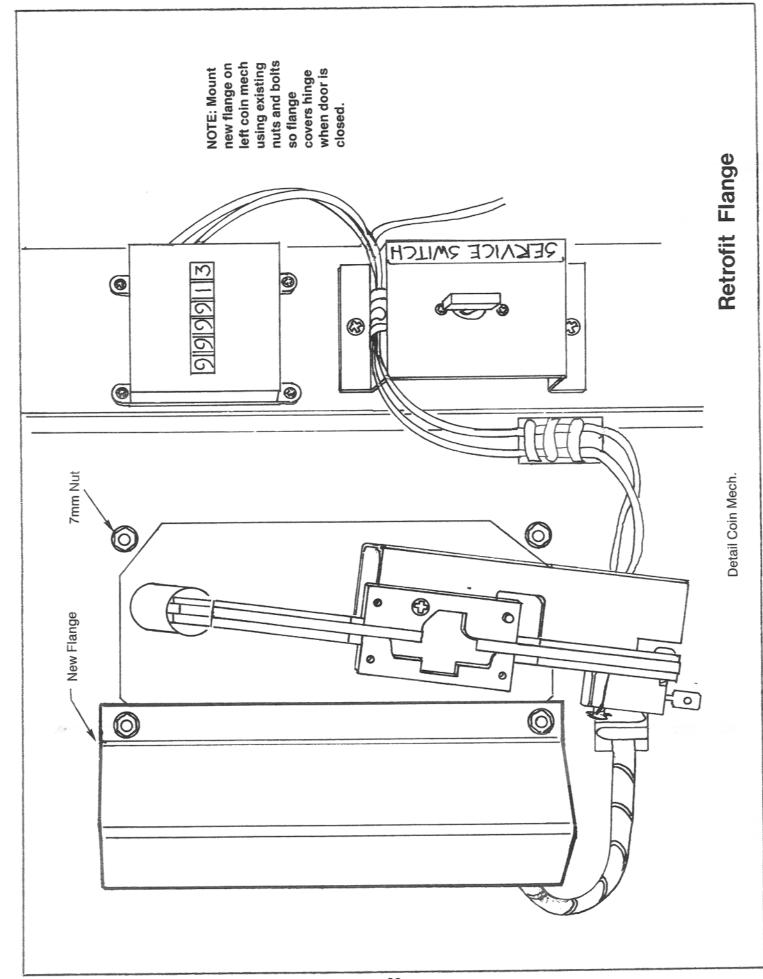
SUBJECT:

Upper Coin Door Hinge

It has been brought to our attention that a flattened straw or similar object can be passed through the center opening in the upper hinge. If the object makes contact with the coin switch, it can be used to run up multiple credits.

The solution is to block the opening with a flange made of wood or metal. This flange should be mounted to the inside of the cabinet and can be obtained from us as a retrofit kit.

This problem is presented in all Radar Scope uprights, Donkey Kong uprights and early Donkey Kong Jr. uprights.





SERVICE DEPARTMENT BULLETIN # DJR-02

GAME:

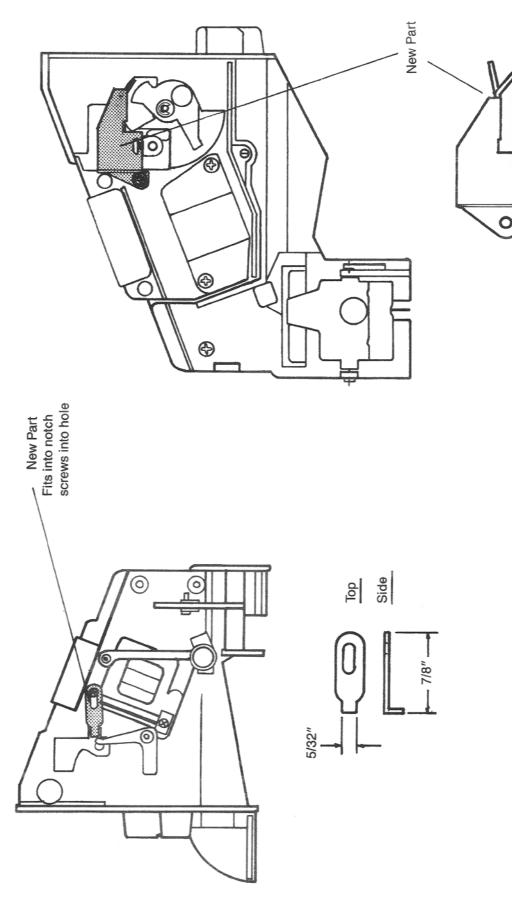
Donkey Kong Jr.

SUBJECT:

Model #730A Coin Selector

It has come to our attention that there is a problem with the model #730A coin selector in that a nickel or a penny, if flipped through the entry just right, will continue through the mechanism and establish credits.

The solution to this problem is to add a small metal piece to the selector as shown in the enclosed drawing. This piece can be made from 18 gauge steel or even a paper clip as shown in the drawing. This piece is available at no charge. The threaded hole in the selector is an M3 x 6 MM size. If you cannot locate a screw this size, you can remove one of the machine screws from the power supply cage.





SERVICE DEPARTMENT BULLETIN # DJR-05

GAME:

Donkey Kong, Donkey Kong Junior

SUBJECT:

Video Wrap Around on Left Side of Picture

We have recently received a number of service calls concerning the wrap around or fold over of the picture on the left hand side of the monitor. In most cases the problem may be solved by replacing capacitor C407 on the main monitor PC board. This is located just to the left of the high voltage cage when viewing from the rear of the monitor. The value of this capacitor is 10 microfarads at 160 volts (of course, any capacitor of 10 microfarads with a voltage rating higher will work also).

This capacitor is connected between ground and the B + supply for the vertical output transistors, so if this capacitor becomes leaky it does not allow full vertical deflection of the screen; consequently, you get video information imposed over the other (wrap around).

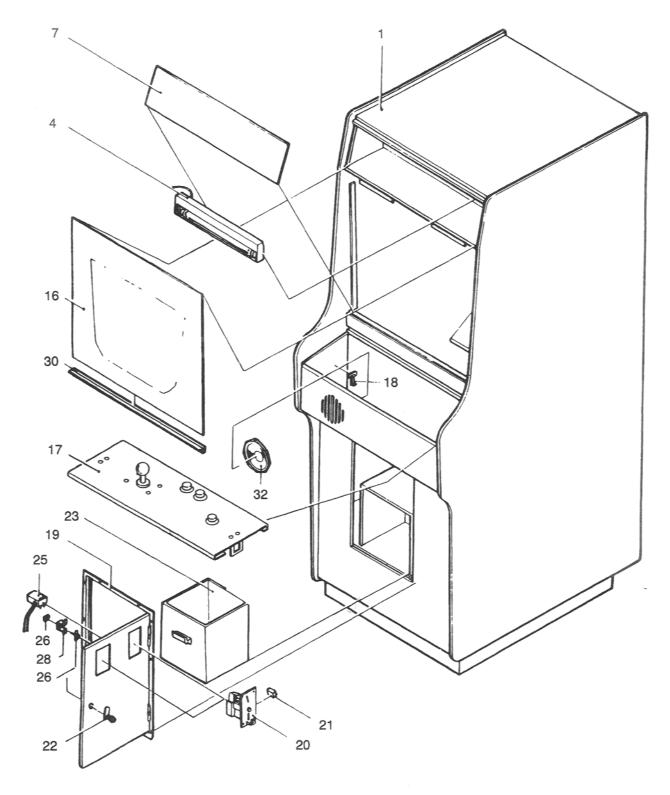
If you have questions about this or any other questions concerning Nintendo products, please feel free to contact us.

IX. Reorder Parts List

Body Parts — Front View (Fig. 5-1)

| ITEM | PART NO. | DESCRIPTION |
|------|---------------|---------------------------------------|
| 1 | TKGU-01-01 | Body |
| 2 | TKGU-01-69 | Center Trim |
| 3 | TKGU-01-56 | Top Trim |
| 4 | TKGU-01-29 | Fluorescent Lamp Ass'y |
| 5 | TKGU-01-29-01 | Fluorescent Lamp |
| 6 | TKGU-01-29-02 | Lamp Starter (Glow Lamp) |
| 7 | MGSU-01-24 | Name Plate Plexi |
| 8 | TKGU-01-49 | Speaker Grill |
| 9 | TPPU-01-52 | Monitor Support Bar |
| 10 | TPPU-01-50 | Monitor Mounting Brkt Left |
| 11 | TPPU-01-51 | Monitor Mounting Brkt Right |
| 12 | TKGU-20-00 | Video Monitor (20-5F) (Standard Scan) |
| 13 | TKGU-20-01 | Video Picture Tube |
| 14 | TPPU-01-68 | Blind Cardboard (Small) |
| 15 | TPPU-01-67 | Blind Cardboard (Cirrail) |
| 16 | MGSU-01-23 | Front Screen |
| 17 | MGSU-23-60 | Operation Panel Ass'y |
| 18 | TKGU-01-31 | Draw Latch |
| 19 | TKGU-01-28 | Coin Door |
| 20 | TKGU-01-02 | Coin Selector |
| 21 | TKGU-01-02-01 | Coin Switch |
| 22 | TKGU-01-04 | Front Door Lock |
| 23 | TKGU-01-01-03 | Cash Box |
| 24 | MDSU-01-32 | CS Frame 120 W Ass'y |
| 25 | TKGU-01-11 | Game Counter |
| 26 | TKGU-01-33 | Service Switch |
| 27 | TMAU-11-20 | CS Plate 120W (Only) |
| 28 | TKGU-01-64 | Service Switch Bracket |
| 29 | TKGU-01-72 | T Molding (White) |
| 30 | TKGU-01-53 | Front Screen Frame (Lower) |
| 31 | MGSU-11-23 | Side Decal |
| 32 | TKGU-01-43 | Speaker 16cm (8 OHM) |

Front View of Game Cabinet

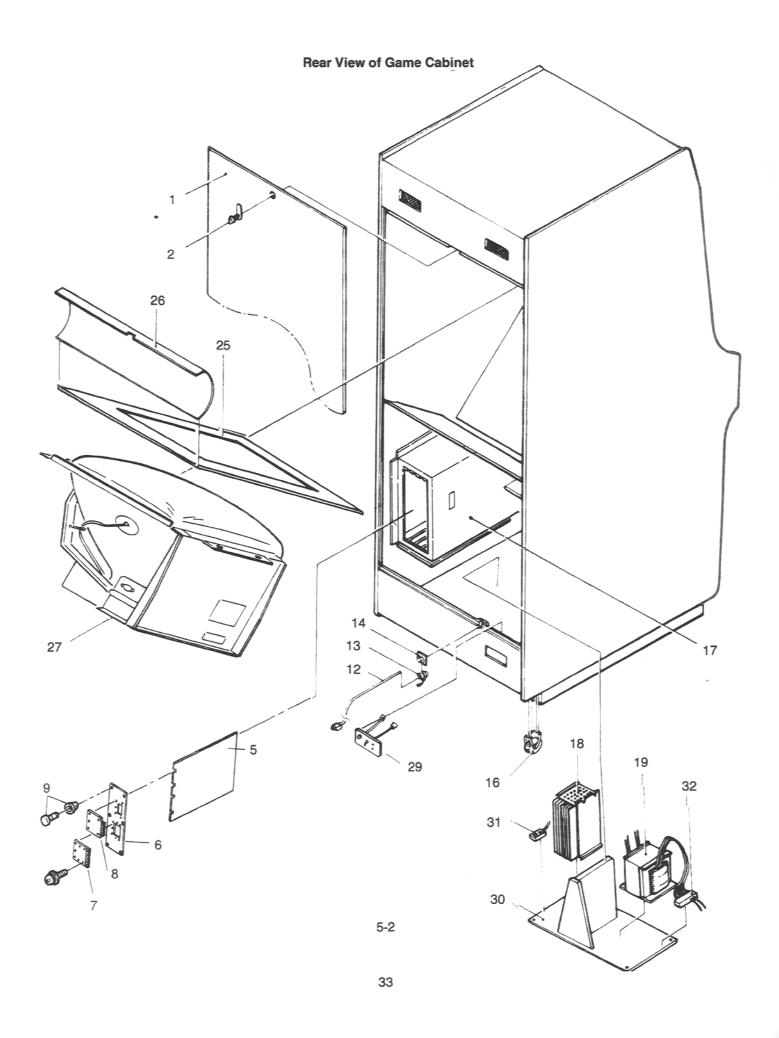


5-1

IX. Reorder Parts List, Continued

Body Parts — Rear View (Fig. 5-2)

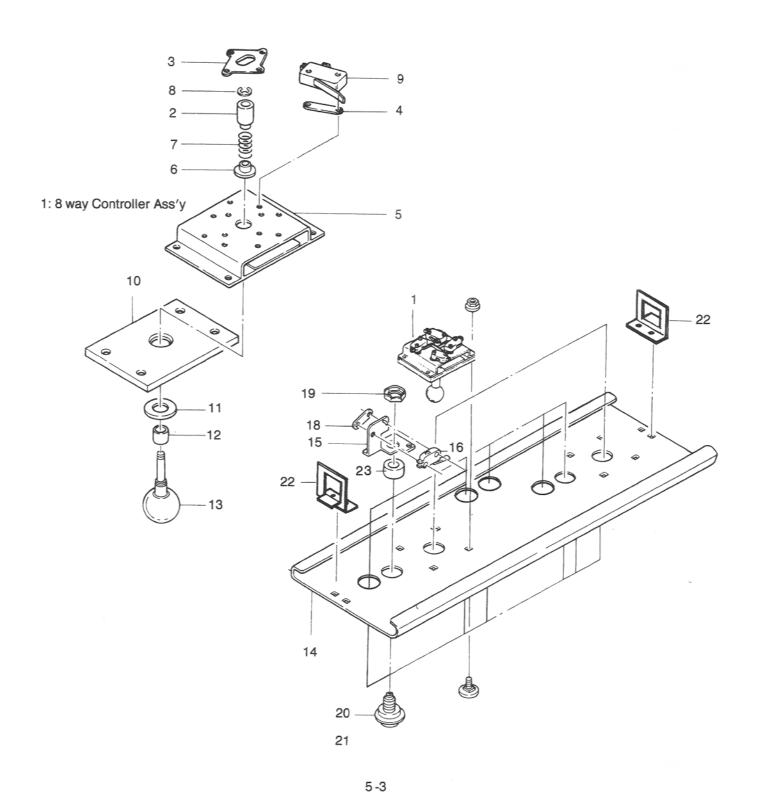
| 1 TKGU-01-01-05 Back Door 2 TKGU-01-03 Back Door Lock (Key #6510) 3 TKGU-01-03-01 Back Door Key Only (Key #6510) 4 TKGU-01-05 Cam A-Type (Back Door Lock) 5 MDST-21-11 P.C. Board Ass'y 6 MDSU-01-01-11 062 FCC Shield Cover 7 MDSU-01-01-12 062 44P FCC P.C.B. Ass'y 8 MDSU-01-01-13 062 36P FCC P.C.B. Ass'y 9 MDSU-23-35 Snap In Fastener 10 TPPU-01-01-15 Shield Cover Label 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-10 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-01-10 Shield Cage (054 Type) 16 TKGU-11-08 Fuse 5A 125V 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Transformer PT821B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Label 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 28 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01 Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-010 Terminal Block 4-Position 32 TKGU-19-01-03 Terminal Block 6-Position | ITEM | PART NO. | DESCRIPTION |
|--|------|---------------|--|
| 3 TKGU-01-03-01 Back Door Key Only (Key #6510) 4 TKGU-01-05 Cam A-Type (Back Door Lock) 5 MDST-21-11 P.C. Board Ass'y 6 MDSU-01-01-11 062 FCC Shield Cover 7 MDSU-01-01-12 062 44P FCC P.C.B. Ass'y 8 MDSU-01-01-13 062 36P FCC P.C.B. Ass'y 9 MDSU-23-35 Snap In Fastener 10 TPPU-01-01-14 FCC Sponge (Black) 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-08 Power Cord 5M 13 TKGU-01-065 Strain Relief Bushing 14 TKGU-01-85 Strain Relief Bushing Plate 15 TKGU-01-08 Fuse 5A 125V 16 TKGU-01-01 Shield Cage (054 Type) 18 TKGU-01-01-10 Shield Cage (054 Type) 18 TKGU-01-01-10 Shield Cage (054 Type) 19 TKGU-09-01-01 Power Supply PP-7B 20 TKGU-09-01-01 Power Transformer PT821B < | 1 | TKGU-01-01-05 | Back Door |
| 3 TKGU-01-03-01 Back Door Key Only (Key #6510) 4 TKGU-01-05 Cam A-Type (Back Door Lock) 5 MDST-21-11 P.C. Board Ass'y 6 MDSU-01-01-11 062 FCC Shield Cover 7 MDSU-01-01-12 062 44P FCC P.C.B. Ass'y 8 MDSU-01-01-13 062 36P FCC P.C.B. Ass'y 9 MDSU-23-35 Snap In Fastener 10 TPPU-01-01-14 FCC Sponge (Black) 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-08 Power Cord 5M 13 TKGU-01-065 Strain Relief Bushing 14 TKGU-01-85 Strain Relief Bushing Plate 15 TKGU-01-08 Fuse 5A 125V 16 TKGU-01-01 Shield Cage (054 Type) 18 TKGU-01-01-10 Shield Cage (054 Type) 18 TKGU-01-01-10 Shield Cage (054 Type) 19 TKGU-09-01-01 Power Supply PP-7B 20 TKGU-09-01-01 Power Transformer PT821B < | 2 | TKGU-01-03 | Back Door Lock (Key #6510) |
| 4 TKGU-01-05 Cam A-Type (Back Door Lock) 5 MDST-21-11 P.C. Board Ass'y 6 MDSU-01-01-11 062 FCC Shield Cover 7 MDSU-01-01-12 062 44P FCC P.C.B. Ass'y 8 MDSU-01-01-13 062 36P FCC P.C.B. Ass'y 9 MDSU-23-35 Snap In Fastener 10 TPPU-01-01-14 FCC Sponge (Black) 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-08 Power Cord 5M 14 TKGU-01-65 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-11-08 Fuse 5A 125V 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-08-01 Power Transformer PT821B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Lock Stopper Plate 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-68 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Large) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-01-01 Power On/Off Switch Ass'y (200 ~ 240v) 1 TKGU-09-01-02 Transformer Base 1 TKGU-09-01-02 Transformer Base 1 TKGU-09-01-02 Tramsformer Transformer) 1 TERMIN TRANSFORMER TRA | | TKGU-01-03-01 | Back Door Key Only (Key #6510) |
| 6 MDSU-01-01-11 062 FCC Shield Cover 7 MDSU-01-01-12 062 44P FCC P.C.B. Ass'y 8 MDSU-01-01-13 062 36P FCC P.C.B. Ass'y 9 MDSU-23-35 Snap In Fastener 10 TPPU-01-01-14 FCC Sponge (Black) 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-10 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-11-08 Fuse 5A 125V 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-10-01 Power On/Off Switch Ass'y (200 ~ 120v) 29 TKGU-01-02 Transformer Base 31 TKGU-09-01-02 Terminal Block 6-Position | | TKGU-01-05 | |
| 6 MDSU-01-01-11 062 FCC Shield Cover 7 MDSU-01-01-12 062 44P FCC P.C.B. Ass'y 8 MDSU-01-01-13 062 36P FCC P.C.B. Ass'y 9 MDSU-23-35 Snap In Fastener 10 TPPU-01-01-14 FCC Sponge (Black) 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-10 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-11-08 Fuse 5A 125V 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-10-01 Power On/Off Switch Ass'y (200 ~ 120v) 29 TKGU-01-02 Transformer Base 31 TKGU-09-01-02 Terminal Block 6-Position | 5 | MDST-21-11 | P.C. Board Ass'y |
| 7 MDSU-01-01-12 062 44P FCC P.C.B. Ass'y 8 MDSU-01-01-13 062 36P FCC P.C.B. Ass'y 9 MDSU-23-35 Snap In Fastener 10 TPPU-01-01-14 FCC Sponge (Black) 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-10 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-01-30 Caster 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-68 Blind Cardboard (Large) 26 TPPU-01-68 | | MDSU-01-01-11 | 062 FCC Shield Cover |
| 9 MDSU-23-35 Snap In Fastener 10 TPPU-01-01-14 FCC Sponge (Black) 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-10 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-11-08 Fuse 5A 125V 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01 Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-09-01-02 Transformer Base 31 TKGU-09-01-03 Terminal Block 6-Position | | MDSU-01-01-12 | 062 44P FCC P.C.B. Ass'y |
| 9 MDSU-23-35 Snap In Fastener 10 TPPU-01-01-14 FCC Sponge (Black) 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-10 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-11-08 Fuse 5A 125V 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01 Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-09-01-02 Transformer Base 31 TKGU-09-01-03 Terminal Block 6-Position | 8 | MDSU-01-01-13 | 062 36P FCC P.C.B. Ass'y |
| 10 TPPU-01-01-14 FCC Sponge (Black) 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-10 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-11-08 Fuse 5A 125V 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-09-01-02 Transformer Base 31 TKGU-09-01-03 Terminal Block 6-Position | | MDSU-23-35 | Snap In Fastener |
| 11 CHPU-01-01-15 Shield Cover Label 12 TKGU-01-08 Power Cord 5M 13 TKGU-01-10 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-11-08 Fuse 5A 125V 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) | | TPPU-01-01-14 | FCC Sponge (Black) |
| TKGU-01-10 TKGU-01-65 TKGU-01-65 Strain Relief Bushing TKGU-01-65 TKGU-11-08 Fuse 5A 125V Caster TCHPU-01-01-10 Shield Cage (054 Type) TKGU-09-01-01 Power Supply PP-7B TKGU-09-01-01 Power Transformer PT821B TKGU-01-07 Back Door Lock Stopper Plate TKGU-11-05 Back Door Label TKGU-11-17 Monitor Adjustment Label MGSK-23-61 MGSK Operation Manual TRPU-01-67 Blind Cardboard (Large) TRGU-20-00 Video Monitor (20-EZV) (Standard Scan) TKGU-10-01 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) TKGU-01-01-02 TKGU-09-01-02 TKGU-09-01-03 TERMIN ASIAN AND ASIAN ASI | 11 | CHPU-01-01-15 | Shield Cover Label |
| 13 TKGU-01-10 Strain Relief Bushing 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-11-08 Fuse 5A 125V 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-09-01-02 Transformer Base 31 TKGU-09-01-03 Terminal Block 6-Position <td>12</td> <td>TKGU-01-08</td> <td>Power Cord 5M</td> | 12 | TKGU-01-08 | Power Cord 5M |
| 14 TKGU-01-65 Strain Relief Bushing Plate 15 TKGU-11-08 Fuse 5A 125V 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-01-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-09-01-02 Transformer Base 31 TKGU-09-01-03 Terminal Block 6-Position | 13 | TKGU-01-10 | Strain Relief Bushing |
| 16 TKGU-01-30 Caster 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | | | Strain Relief Bushing Plate |
| 17 CHPU-01-01-10 Shield Cage (054 Type) 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-03 Terminal Block 6-Position | 15 | TKGU-11-08 | Fuse 5A 125V |
| 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-01-01 Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 16 | TKGU-01-30 | Caster |
| 18 TKGU-18-01 Power Supply PP-7B 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-01-01 Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 17 | CHPU-01-01-10 | Shield Cage (054 Type) |
| 19 TKGU-09-01-01 Power Transformer PT821B 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 Toov Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | | TKGU-18-01 | |
| 20 TKGU-01-07 Back Door Lock Stopper Plate 21 MGSU-11-05 Back Door Label 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | | TKGU-09-01-01 | Power Transformer PT821B |
| 22 TPPU-11-25 FCC Label 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-03 Terminal Block 6-Position | 20 | TKGU-01-07 | Back Door Lock Stopper Plate |
| 23 TKGU-11-17 Monitor Adjustment Label 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-03 Terminal Block 6-Position | 21 | MGSU-11-05 | Back Door Label |
| 24 MGSK-23-61 MGSK Operation Manual 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 22 | TPPU-11-25 | FCC Label |
| 25 TPPU-01-67 Blind Cardboard (Large) 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 23 | TKGU-11-17 | Monitor Adjustment Label |
| 26 TPPU-01-68 Blind Cardboard (Small) 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 24 | MGSK-23-61 | MGSK Operation Manual |
| 27 TKGU-20-00 Video Monitor (20-EZV) (Standard Scan) 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 25 | TPPU-01-67 | Blind Cardboard (Large) |
| 28 TKGU-20-01 Video Picture Tube 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 26 | TPPU-01-68 | Blind Cardboard (Small) |
| 29 TKGU-10-01 Power On/Off Switch Ass'y (90 ~ 120v) 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 27 | TKGU-20-00 | Video Monitor (20-EZV) (Standard Scan) |
| 29 TKGU-10-01E Power On/Off Switch Ass'y (200 ~ 240v) 30 TKGU-01-01-02 Transformer Base 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 28 | TKGU-20-01 | Video Picture Tube |
| TKGU-01-01-02 Transformer Base TKGU-09-01-02 100v Outlet (From Transformer) TKGU-09-01-03 Terminal Block 6-Position | 29 | TKGU-10-01 | Power On/Off Switch Ass'y (90 ~ 120v) |
| 31 TKGU-09-01-02 100v Outlet (From Transformer) 32 TKGU-09-01-03 Terminal Block 6-Position | 29 | TKGU-10-01E | Power On/Off Switch Ass'y (200 ~ 240v) |
| 32 TKGU-09-01-03 Terminal Block 6-Position | 30 | TKGU-01-01-02 | Transformer Base |
| | 31 | TKGU-09-01-02 | 100v Outlet (From Transformer) |
| 32 TKGU-19-01-03 Terminal Block 4-Position | 32 | TKGU-09-01-03 | Terminal Block 6-Position |
| | 32 | TKGU-19-01-03 | Terminal Block 4-Position |



Operation Panel Assembly (Fig. 5-3)

| ITEM | PART NO. | DESCRIPTION | |
|------|------------|--------------------------------|--|
| 1 | MDST-14-12 | 8 Way Control Lever Assembly | |
| 2 | TKGU-23-21 | Switch Collar | |
| 3 | TNX-23-18 | 8 Way Guide Plate | |
| 4 | TKGU-23-17 | Switch Spacer | |
| 5 | TKGU-23-16 | Bearing Brkt | |
| 6 | TKGU-23-20 | Spring Stopper | |
| 7 | TKGU-23-22 | Lever Spring | |
| 8 | TKGU-23-23 | E-Ring | |
| 9 | TKGU-23-13 | Micro Switch | |
| 10 | TMAU-12-15 | Lever Plate | |
| 11 | TMAU-12-14 | Control Knob Plate | |
| 12 | TMAU-12-16 | Control Knob Collar 8L | |
| 13 | TMAU-11-18 | Knob with Shaft 80.5L | |
| 14 | MGSU-01-22 | Operation Panel Base | |
| 15 | TKGU-23-12 | Switch Button Bracket | |
| 16 | TMAU-34-18 | Micro Switch VL 12L (Straight) | |
| 17 | MDSU-12-17 | Black Sponge, 2 x 10 x 580L | |
| 18 | TKGU-23-26 | Nut Plate | |
| 19 | TKGU-23-34 | Pal Nut M16 | |
| 20 | MDST-12-21 | Button Assembly (Black) | |
| 21 | MDST-12-17 | Button Assembly (Crimson) | |
| 22 | TMAK-11-19 | Operation Panel Fastener | |
| 23 | TMAU-12-18 | Collar — 34 x 28 x 7H | |
| 24 | MDST-12-24 | Button Assembly (Light Blue) | |
| 25 | MDST-12-27 | Button Assembly (Green) | |
| | | | |

VS. UniSystem Operation Panel Assembly Parts (Upright)



Operation Panel Assembly

Wiring Harnesses

| PART NO. | DESCRIPTION |
|------------|--------------------------------|
| MDSU-41-12 | 062 44P FCC Harness |
| MDSU-41-11 | 062 36P FCC Harness |
| MGSU-41-13 | UP-072-44P Edge Harness |
| MGSU-41-14 | UP-072-36P Edge Harness |
| MGSU-42-11 | UP-072-15P Switch Harness |
| MGSU-42-12 | UP-072-12P Switch Harness |
| MGSK-43-01 | 072-6P-100 Video Harness |
| MGSK-43-02 | 072-2P-100 Audio Harness |
| MGSK-43-03 | 072-4P-100 Service Sw. Harness |
| MGSK-43-04 | 072-4P-100 Coin Sw. Harness |
| MGSK-43-05 | 072-3P-100 Counter Harness |
| MGSK-43-06 | 072-9P-250 Power Harness |
| TKGU-13-17 | 2P-860 Speaker Harness |

MDS P.C. Board Assembly

| PART NO. | DESCRIPTION (Reference Designations and Locations) | | |
|--------------------------|--|--|--|
| MDST-21-11 | P.C. Board Assembly | | |
| MDST-21-12 | 2A03 Microprocessor | (2J,8J) | |
| MDST-21-13 | HM6116 2k × 8bit Static RAM, | | |
| MDST-21-14 | MB8416-15 2k × 8bit Static CN | | |
| MDST-21-15 | TC5533P-A 4k × 8bit Static RA | , | |
| MDST-21-16 | TC5533P-B 4k × 8bit Static RA | | |
| MDST-21-17 | 74LS00 Quad 2-input NAND L | S TTL (4C, 5C) | |
| MDST-21-18 | 74LS04 Hex Inverters LS TTL | (1L, 2K, 4E, 5E) | |
| MDST-21-19 | 74LS10 Tri 3-input NAND LS T | TL (4D) | |
| MDST-21-20 | 74LS32 Hex 2-input AND LS T | | |
| MDST-21-21 | 74LS74 Dual D-Flip Flops LS 1 | | |
| MDST-21-22 | 74LS123 Dual Retriggable Sin | · , | |
| MDST-21-23 | 74LS138 Dual 2 to 4 Demultiple | | |
| MDST-21-24 | 74LS157 2 to 1 Data Selectors | | |
| MDST-21-25 | 74LS165 8bit Shift register LS | \ , . , , , , , , , , , , , , , | |
| MDST-21-26 | 74LS240 Octal 3 State Bus. In | | |
| MDST-21-27 | 74LS245 Octal 3 State Bus Tra | (***, ***, ***, | |
| MDST-21-28 | 74LS373 Octal 3 State D-Latch | \ ' ' / | |
| MDST-21-29 | 74F04 Hex Inverters FAST TTL | , , , | |
| MDST-21-30 | 4066 Quad Analog Switches C | | |
| MDST-21-31 | LM324 Hex Operational Ampli | | |
| MDST-21-32 | LM3900 Hex Operational Amp | | |
| MDST-21-33 | PST518A Reset IC | (1K) | |
| MDST-21-34 | 2SA933 Silicon PNP Transisto | (Q3, Q7, Q13 ~ Q16, Q19 ~ Q22, Q26, Q27) | |
| MDST-21-35 | 2SC1740 Silicon NPN Transist | | |
| | | Q18, Q23 ~ Q25) | |
| MDST-21-36 | 2SD592 Silicon NPN Transisto | r (Q10, Q11) | |
| MDST-21-37 | 1S953 Silicon Switching Diode | (D1, D2, D5, D7, D9 ~ D11) | |
| MDST-21-38 | W03B Silicon Diode | (D3, D4, D6, D8) | |
| MDST-21-39 | 27 Ω 1/4W \pm 5% Resistor | (R4) | |
| MDST-21-40 | 33 Ω 1/4W \pm 5% Resistor | (R22, R30, R36, R38, R45 R47, R72, R89) | |
| MDST-21-41 | 100 Ω 1/4W \pm 5% Resistor | (R79, R80, R95, R97) | |
| MDST-21-42 | 330 Ω 1/4W \pm 5% Resistor | (R8, R20, R28, R29, R48, R49, R70, R71, R73, R91) | |
| MDST-21-43 | 680 Ω 1/4W \pm 5% Resistor | (R119) | |
| MDST-21-44 | 1K Ω 1/4W \pm 5% Resistor | (R31, R32, R92, R93) | |
| MDST-21-45 | 1.2K Ω 1/4W \pm 5% Resistor | (R37, R43) | |
| MDST-21-46 | 2.2K Ω 1/4W \pm 5% Resistor | (R6, R11, R12, R14, R15, R23, R24, R27, R39 ~ R42, R50, R51, R54, R55, R64, R65, R68, R69, R81, R87) | |
| MDST-21-47 | 3.3K Ω1/4W + 5% Resistor | , | |
| MDST-21-47 MDST-21-48 | 4.7K Ω 1/4W \pm 5% Resistor | (R77) (R13, R17, R25, R26, R52, R53, R66, R67) | |
| | | | |

MDS P.C. Board Assembly (continued)

| PART NO. | O. DESCRIPTION (Reference Designations and Locations) | | |
|--------------------------|---|--|--|
| MDST-21-49 | 10K Ω 1/4W \pm 5% Resistor | (R3, R5, R7, R16, R18, R19, R21, R33, R56 R63, R75, R82, R83, R85, R86, R120) | |
| MDST-21-50 | 12K Ω 1/4 W \pm 5% Resistor | (R76, R96, R98) | |
| MDST-21-51 | 20K Ω 1/4W \pm 5% Resistor | (R94, R99) | |
| MDST-21-52 | 33K Ω 1/4W \pm 5% Resistor | (R1, R2) | |
| MDST-21-53 | 100K Ω 1/4W ± 5% Resistor | (R10, R35, R84, R103, R121) | |
| MDST-21-54 | 150K Ω 1/4W ± 5% Resistor | (R74, R118) | |
| MDST-21-55 | 360K Ω 1/4 W ± 5% Resistor | (R107, R114) | |
| MDST-21-56 | 750K Ω 1/4W \pm 5% Resistor | (R101, R108, R109, R110, R115, R116) | |
| MDST-21-57 | 1M Ω 1/4W \pm 5% Resistor | (R102, R106, R112, R117) | |
| MDST-21-58 | 1.8M Ω 1/4W ± 5% Resistor | (R90, R105) | |
| MDST-21-59 | 2.2M Ω 1/4W \pm 5% Resistor | (R81, R87, R100, R104) | |
| MDST-21-60 MDST-21-61 | 1K $\Omega \times 8$ Series Resistor Array 68 $\Omega \times 4$ Parallel Resistor Array | (RM1, RM2, RM5, RM8, RM11, RM14, RM17) (RM3, RM4, RM6, RM7, RM9, RM10, RM12, RM13, RM15, RM16) | |
| | | | |
| MDST-21-62 | 33pF 50V Ceramic Disc Capacitor | (C35, C91, C92) | |
| MDST-21-63 | 68pF 50V Ceramic Disc Capacitor | (C25, C86) | |
| MDST-21-64 | 100pF 50V Ceramic Disc Capacitor | (C38, C42, C43, C46) | |
| MDST-21-65 | 220pF 50V Ceramic Disc Capacitor | (C26 ~ 29, C34, C45) | |
| MDST-21-66 | 0.01 μ F 50V Ceramic Disc Capacitor | (C9, C10, C89, C90) | |
| MDST-21-67 | 0.1 μ F 25V Ceramic Disc Capacitor | (C100 ~ C178) | |
| MDST-21-68 | 0.2 μ F 12V Ceramic Disc Capacitor | (C4, C12) | |
| MDST-21-69 | 0.047 μ F 50V Film Capacitor | (C37, C39, C40, C44) | |
| MDST-21-70 | 3.3 µ F 16V AI. Electrolytic Capacitor | (C15 ~ C18, C31, C32) | |
| MDST-21-71 | 10 μ F 16V AI. Electrolytic Capacitor | (C3, C5, C6, C11, C13, C14, C19 ~ C24, C30, C33, C36, C41, C47 ~ C85) | |
| MDST-21-72 | 47 μ F 16V Al. Electrolytic Capacitor | (C2) | |
| MDST-21-73 | 100 μ F 16V AI. Electrolytic Capacitor | (C1) | |
| MDST-21-74 | 100 μ F 25V AI. Electrolytic Capacitor | (C8) | |
| MDST-21-75 | 470 μ F 16V AI. Electrolytic Capacitor | (C7, C87, C88) | |
| MDST-21-76 | 500 Ω Variable Resistor. Red Cap | (VR1, VR3) | |
| MDST-21-77 | 500 Ω Variable Resistor. Green Cap | (VR2, VR4) | |
| MDST-21-78 | 500 Ω Variable Resistor. Blue Cap | (VR5, VR6) | |
| MDST-21-79 | 21.47727MHz Crystal | (X1) | |
| MDST-21-80 | 8 position dip switch | (SW1, SW2) | |
| MDST-21-81 | 28P IC socket | (1A, 1B, 1C, 1D, 2A, 6A, 6B, 6C, 6D, 8A, 8B) | |
| MDST-21-82 | 40P IC socket | (2F, 2J, 8F, 8J) | |
| MDST-21-83 | Type 32-4 (UM3 × 2) Battery Case | | |
| MDST-21-84 | Bolt with washer M2.6 | | |
| MDST-21-85 | Flat washer M2.6 | | |
| MDST-21-86 | Nut Plate M2.6 | | |
| | | | |
| MDST-21-87 | Dry Battery "AA" T18L Beaded tie | | |

Power Supply Parts (PP7B)

| Part No. | Description | |
|-----------|---------------------------------|-------------------------|
| TKG-18-01 | (PP-7B) Power Supply | Complete |
| TKG-18-02 | Transistor | 2SC2555 |
| TKG-18-03 | Transistor | 2SA817 |
| TKG-18-04 | Transistor | 2SC2535 |
| TKG-18-05 | Transistor | 2SA1015 |
| TKG-18-06 | Fast Recovery Center Tap Diode | CTU-2S |
| TKG-18-07 | Shot Key Diode | CTB33S |
| TKG-18-08 | Silicon Rectifier Diode | S4VB40 4A 400VW |
| TKG-18-09 | Silicon Rectifier Diode | 1B4B41 |
| TKG-18-10 | Hybrid IC | 3D-1001 |
| TKG-18-11 | 3 Terminals Regulators | 7824 |
| TKG-18-12 | 3 Terminals Regulators | 7812 |
| TKG-18-13 | Thyristors | 5P4M |
| TKG-18-14 | Thyristors | 03P05M |
| TKG-18-15 | Diode | 1S954 |
| TKG-18-16 | Diode | 10DF-4 |
| TKG-18-17 | Photo Coupler | PC614 |
| TKG-18-18 | Zener Diode | 05Z5.6U |
| TKG-18-19 | Zener Diode | 05Z5.1L |
| TKG-18-20 | Zener Diode | 05Z5.6Z |
| TKG-18-21 | Ceramic Capacitor | DE0707B471K2K 470pF2KV |
| TKG-18-22 | Ceramic Capacitor | 0.1MF 50V |
| TKG-18-23 | Film Capacitor | MDD2J473M 0.074MF 630VW |
| TKG-18-24 | Film Capacitor | 0.01MF 50V |
| TKG-18-25 | Film Capacitor | 1000pF 50V |
| TKG-18-26 | Aluminum Electrolytic Capacitor | 1000MF 50V |
| TKG-18-27 | Aluminum Electrolytic Capacitor | 47MF 35V |
| TKG-18-28 | Aluminum Electrolytic Capacitor | 47MF 16V |
| TKG-18-29 | Aluminum Electrolytic Capacitor | 3300MF 10V |
| TKG-18-30 | Aluminum Electrolytic Capacitor | 100MF 25V |
| TKG-18-31 | Aluminum Electrolytic Capacitor | 10MF 16V |
| TKG-18-32 | Aluminum Electrolytic Capacitor | 330MF 200V |
| TKG-18-33 | Aluminum Electrolytic Capacitor | 1000MF 25V |
| TKG-18-34 | Resistor (Coil Winding) | 20 OHM 2W |
| TKG-18-35 | Resistor (Carbon) | 1K OHM 1/4W ± 5% |
| TKG-18-36 | Resistor (Carbon) | 51 OHM 1/4W ± 5% |
| TKG-18-37 | Resistor (Carbon) | 12 OHM ½W ± 5% |
| TKG-18-38 | Resistor (Carbon) | 470 OHM 1/4W ± 5% |
| TKG-18-39 | Resistor (Carbon) | 22 OHM 1/2W ± 5% |
| TKG-18-40 | Resistor (Carbon) | 20K OHM 1/2W ± 5% |

Power Supply Parts (PP7B), continued

| Part No. | Description | |
|--|--|--|
| TKG-18-41 TKG-18-42 TKG-18-43 | Resistor (Carbon) Resistor (Cement) Resistor (Metal Oxide) | 100 OHM ½W 20 OHM 5W 510 OHM 3W |
| TKG-18-44 TKG-18-45 TKG-18-46 TKG-18-47 TKG-18-48 TKG-18-49 | Variable Resistor Variable Resistor Shunt Resistor SC Coil SF Coil SF Coil | 50K OHM GF06P 2K OHM GF06P 5m OHM SC-02 100MH 5A 800MH 2A |
| TKG-18-50 TKG-18-51 TKG-18-52 | Oscillator Transformer Oscillator Transformer Oscillator Transformer | EC-35 Type 3D-0097 EI-30 Type 3D-0097 EE-16 Type 3D-1000 |
| TKG-18-53 | Fuse Element | FGMB 4A 125V NR Type |

MONITOR PARTS (20-EZV)

MONITOR PARTS (20-EZV), CONTINUED

| PART # | DESCRIPTION | PART # | DESCRIPTION |
|------------------------|---|------------------------|--|
| MON-01-01 | IC LA1464 | MON-09-06 | CERAMIC CAPACITOR 820PF 500V |
| MON-01-03 | IC LA5112 | MON-09-08 | CERAMIC CAPACITOR 1000 PF 1000V |
| MON-02-01 | DIODE 1S1555 | MON-09-10 | CERAMIC CAPACITOR 200PF 2000V |
| MON-02-02 | DIODE 1S1553 | MON-09-12 | CERAMIC CAPACITOR 500PF 2000V |
| MON-02-03 | DIODE EU-1 | MON-09-50 | ELECTRO CAPACITOR 47MF 10V |
| MON-02-04 | DIODE RU2 | MON-09-52 | ELECTRO CAPACITOR 470MF 10V |
| MON-02-05 | DIODE SIB01-02 | MON-09-54 | ELECTRO CAPACITOR 100MF 16V |
| MON-02-06 | DIODE ERC04-06 | MON-09-56 | ELECTRO CAPACITOR 220MF 16V |
| MON-02-07 | DIODE 1S188TV | MON-09-58 | ELECTRO CAPACITOR 4.7MF 25V |
| MON-02-50 | ZENER DIODE EQA01-35 | MON-09-60 | ELECTRO CAPACITOR 220MF 25V |
| MON-02-51 | ZENER DIODE EQA01-07 | MON-09-62 | ELECTRO CAPACITOR 330MF 25V |
| MON-02-52 | ZENER DIODE EQA01-12 | MON-09-64 | ELECTRO CAPACITOR 1MF 160V |
| MON-02-53 | ZENER DIODE HZ7 | MON-09-66 | ELECTRO CAPACITOR 10MF 160V |
| MON-03-01 | TRANSISTOR 2SA673(A) | MON-09-68 | ELECTRO CAPACITOR 100MF 160V |
| MON-03-02 | TRANSISTOR 2SA940 | MON-09-70 | ELECTRO CAPACITOR 470MF 160V |
| MON-03-03 | TRANSISTOR 2SA659 | MON-10-00 | MYLAR CAPACITOR 0.047MF 100V |
| MON-03-51 | TRANSISTOR 2SC536 | MON-10-02 | MYLAR CAPACITOR 0.082MF 50V |
| MON-03-52 | TRANSISTOR 2SC2551 | MON-10-04 | MYLAR CAPACITOR 2700PF 50V |
| MON-03-53 | TRANSISTOR 2SC1015 | MON-10-06 | MYLAR CAPACITOR 0.33MF 50V |
| MON-03-54 | TRANSISTOR 2SC1051 | MON-10-08 | MYLAR CAPACITOR 0.1MF 50V |
| MON-03-55 | TRANSISTOR 2SC1507 | MON-10-10 | MYLAR CAPACITOR 8200PF 50V |
| MON-03-56 | TRANSISTOR 2SC2073 | MON-10-12 | MYLAR CAPACITOR 0.015MF 50V |
| MON-03-57 | TRANSISTOR 2SC2228 | MON-10-14 | MYLAR CAPACITOR 0.056MF 50V |
| MON-03-58 | TRANSISTOR 2SC2271 | MON-10-16 | MYLAR CAPACITOR 0.068MF 50V |
| MON-03-76 | TRANSISTOR 2SD386-AY | MON-10-30 | POLYPRO CAPACITOR 0.056MF 160V |
| MON-03-77 | TRANSISTOR 2SD870 | MON-10-32 | POLYPRO CAPACITOR 0.47MF 200V |
| MON-03-78 | TRANSISTOR 2SD1090 | MON-10-34 | POLYPRO CAPACITOR 0.022MF 200V |
| MON-03-79 | TRANSISTOR 2SD901 | MON-10-36 | POLYPRO CAPACITOR 2200PF 630V |
| MON-03-80 | TRANSISTOR 2SD869 | MON-10-38 | POLYPRO CAPACITOR 6800PF 2000V |
| MON-05-01 | FUSE RESISTOR 1W 39 OHM | MON-11-00 | SOLID RESISTOR 1/2W 1.8 KOHM |
| MON-05-02 | FUSE RESISTOR 2W 330 OHM | MON-11-30 | CARBON RESISTOR 1.2W 100 OHM |
| MON-05-03 | FUSE RESISTOR 1/2W 1 KOHM | MON-11-32 | CARBON RESISTOR 1/2W 1 KOHM |
| MON-05-04 | FUSE RESISTOR 1W 3.3 OHM | MON-11-34 | CARBON RESISTOR 1/2W 10 KOHM |
| MON-05-08 | 3 KOHM VARIABLE RESISTOR | MON-11-36 | CARBON RESISTOR 1/2W 120 OHM |
| MON-05-10 | 10 KOHM VARIABLE RESISTOR | MON-11-38 | CARBON RESISTOR 1/2W 18 OHM |
| MON-05-12 MON-05-14 | 50 KOHM VARIABLE RESISTOR | MON-11-40 MON-12-00 | CARBON RESISTOR 1/2W 39 KOHM WIRE WD RESISTOR 20W 180 OHM |
| MON-05-14 MON-05-16 | 200 KOHM VARIABLE RESISTOR 450 OHM VARIABLE RESISTOR | MON-12-00 MON-12-02 | WIRE WD RESISTOR 7W 470 OHM |
| MON-05-18 | 300 OHM VARIABLE RESISTOR | MON-12-02 MON-12-04 | WIRE WD RESISTOR 7W 470 OHM |
| MON-06-01 | TRANSFORMER A7007 | MON-12-04 MON-12-30 | OXIDE M RESISTOR 1W 1 KOHM |
| MON-06-02 | LINEARITY COIL (A0285) | MON-12-30 | OXIDE M RESISTOR 1W 1 KOHM |
| MON-06-02 | WIDTH COIL (A7018) | MON-12-34 | OXIDE M RESISTOR 1W 18 ROTINI OXIDE M RESISTOR 1W 330 OHM |
| MON-06-05 | FILTER COIL (L7133) | MON-12-34 MON-12-36 | OXIDE M RESISTOR 1W 8.2 KOHM |
| MON-06-06 | LINE FILTER (L019D) | | OXIDE M RESISTOR 1W 8.2 KOHM OXIDE M RESISTOR 2W 10 KOHM |
| MON-06-21 | FLYBACK TRANSFORMER F5024 | MON-12-38 MON-12-40 | OXIDE M RESISTOR 2W 10 ROHM |
| MON-06-50 | YOKE COIL (20-5F TYPE) | MON-12-40 | OXIDE M RESISTOR 3W 1.2 KOHM |
| MON-06-60 | PURITY MAGNET ASSY (20-5F) | TKGU-20-01 | VIDEO PICTURE TUBE (510UTB22) |
| MON-07-01 | FUSE 4A | TKGU-20-01 | MONITOR MAIN PCB |
| MON-07-02 | FUSE 0.3A | TNGU-20-02 | (W/COMPONENTS) |
| MON-08-01 | THERMIST SDT-500 | TKGU-20-03 | MONITOR AUDIO PCB |
| MON-08-02 | THERMIST SDT-1000 | 11/40-20-03 | (W/COMPONENTS) |
| MON-08-50 | POSISTOR PTH451C05 | TKGU-20-04 | MONITOR CRT PCB (W/COMPONENTS) |
| MON-09-00 | CERAMIC CAPACITOR 5PF 50V | TKGU-20-04 | MONITOR CRI PCB (W/COMPONENTS) |
| MON-09-02 | CERAMIC CAPACITOR 470PF 500V | 1 NGO-20-07 | (W/COMPONENTS) |
| MON-09-04 | CERAMIC CAPACITOR 4700 PF 500V | | (14700IVIII OINEINIO) |





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