

OPERATION MANUAL

MODEL NO: TKG3-UP



Nintendo

WARNING

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. As temporarily permitted by regulation it has not been tested for compliance with the limits for Class A computing devices pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference.

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.

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C A U T I O N S

- 1. P.C.Board should not be exposed direct to the sun. Direct sunshine is very harmful to LSI(memory element).
- 2. P.C.Board to be stored or transported should be wrapped by a conductive pouch or aluminum foil, because LSI and IC used in the machine are semiconductor integrated circuits of which basic element is MOS-FET.
- 3. When images on the Video Monitor screen are disturbed by powerful noise or other electrical causes, turn the main power off once and then on again.

2. SPECIFICATIONS

Power Consumption : 118W

Size : $600(W) \times 850(D) \times 1700(H)$ mm.

Weight : 100 Kgs.

Number of Player : 1 or 2 person(s)

Number of Jumpman : $3 \sim 6$ (Adjustable)

Accessories : Operation Manual : 1 copy

Key for Back Door : 2 pcs.

Key for Coin Box Door : 2 pcs.

Fuse : 4 pcs.

 $100\sim120V$: $5A \times 1$, $4A \times 2$, $0.3A \times 1$

 $220\sim240V$: $4A \times 2$, $3A \times 1$, $0.3A \times 1$

NOTE: Specifications are subject to change for improvement without notice.

3-1 Cautions on installation

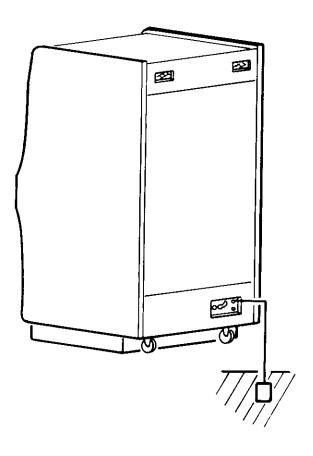
- (1) The power cord of the machine should not be connected to a wall outlet together with large load unit(s) such as motor, cooler, etc.
- (2) Turn the power off before setting and removing the P.C. Board and connectors. Carefully handle them.
- (3) Do not touch IC, LSI and other electronic parts on P.C. Board.
 Do not use a tester or the like on them. (They may be damaged by the inner voltage of the instruments.)
- (4) When exchanging a fuse, use a new one of the prescribed capacity
- (5) The machine should be installed where it is not hot, keeping away from a heating appliance and direct sunshine.
- (6) The machine should be installed where it is not wet and dusty.
- (7) Do not touch the inside of the video monitor which has high tension units. Inform service station, if necessary.

3-2 Earthing of machine

- (1) When the machine is installed in a wet place, it should be grounded to avoid accident by an electric shock.
 - a) Connect an earthing wire to the earthing terminal of the machine.
 - b) The opposite end of the earthing wire should be connected to an earthing bar which is firmly inserted into the ground.

(2) Cautions

- a) Do not connect the earthing wire to a water pipe, because polyvinyl-choloride pipes are sometimes used in the water lines and, if so, the electronic continuity is cut at the points.
- b) Do not connect the earthing wire to the gas pipe absolutely. That is very dangerous.

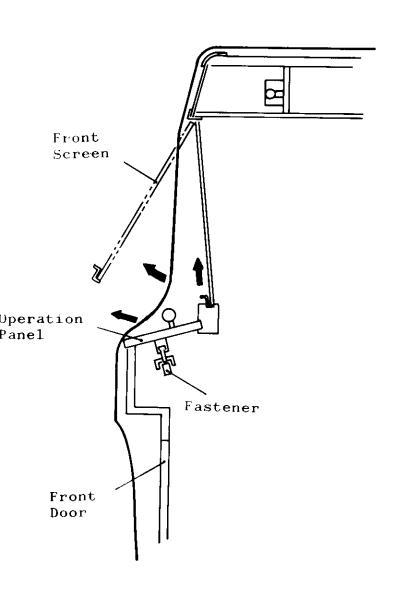


4. MAINTENANCE AND INSPECTION

4-1 Dismounting of front screen

Opening the back door, pull the front screen clamp which is mounted under the top plate. Pull the front screen upward while pushing and then pull toward you.

Front Screen Clamp



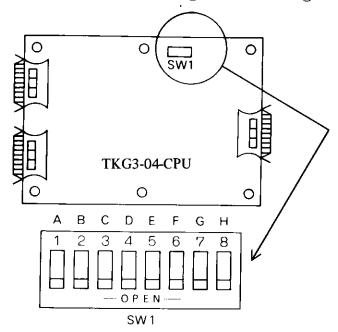
4-2 Dismounting of operation panel

To dismount the operation panel for maintenance or inspection of the Control Unit or Micro Switch, open the front door and unfasten the fastener.

5. POINTS AND METHODS OF ADJUSTMENT

5-1 CPU P.C.Board

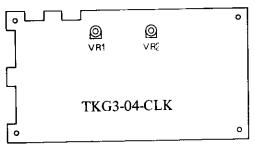
The number of Jumpman, score level, the number of coin and type of machine can be set with the switches on CPU P.C.Board according to the diagram below.



| | А | В | С | D | E | F | G | Н |
|---|------------------|------------------|------------------------|------------------------|-------------------------------------|-------------------------------------|--------------------------------------|-----------|
| Number of Jumpman 3 4 5 | OFF ON OFF | OFF OFF ON | | | | | | |
| 6 Score Level for extra Jumpman | ON | ON | | | - | | | - |
| 7,000 points 10,000 points 15,000 points 20,000 points | | | OFF ON OFF ON | OFF OFF ON ON | | | | |
| Coinage 1 coin /1 play 1 coin /2 plays 1 coin /3 plays 1 coin /4 plays 2 coins/1 play 3 coins/1 play 4 coins/1 play 5 coins/1 play | | | | | OFF OFF OFF OF ON ON | OFF ON OFF ON OFF ON | OFF OFF ON OFF OFF ON | |
| Tabl e/Upright Table Upright | | | | | _ | | | OFF ON |

 ${\tt NOTE}$: Keep the switch H always at the ${\tt ON}$ position.

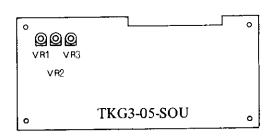
Semi-fixed resistors, VR1 and VR2 on CLK P.C. Board are used to adjust video monitor screen.



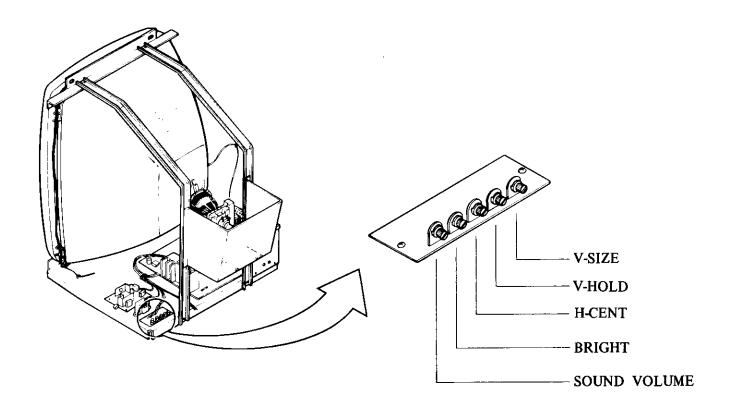
| VR1 | 50KΩ 0.3W top type white knob | Turn right to move image downward. |
|-----|-------------------------------|------------------------------------|
| VR2 | 50KΩ 0.3W top type white knob | Turn right to move image leftward |

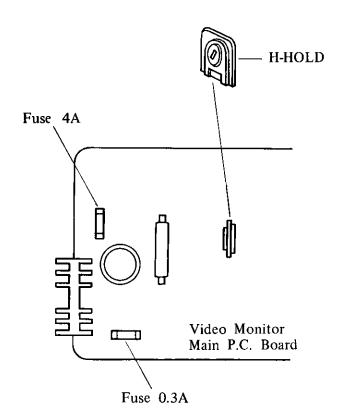
5-3 SOU P.C. Board

Semi-fixed resistor VR1 on SOU P.C. Board is used to adjust sound balance.



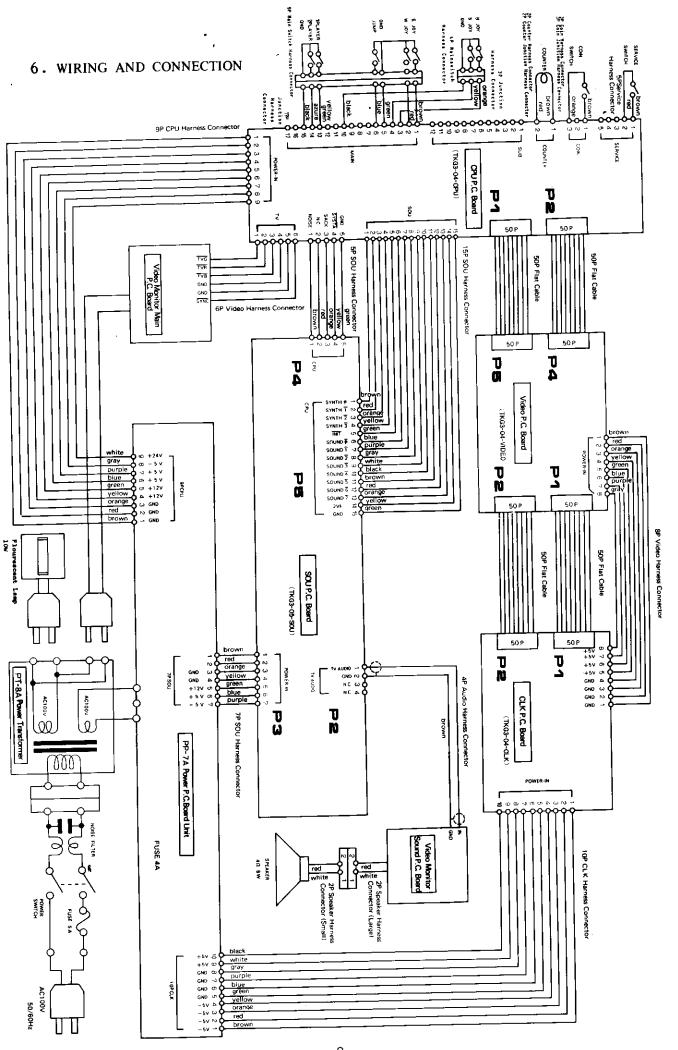
| VRI | 10KΩ 1/5W plain type white knob | Balance of effective sound |
|-----|---------------------------------|----------------------------|





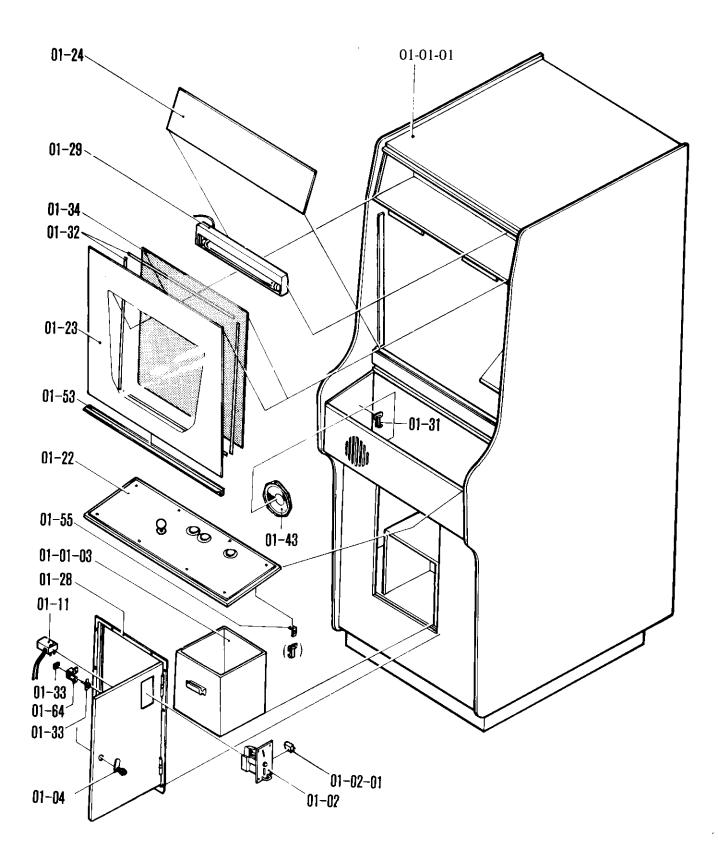
NOTE: Do not touch the inside of the Video Monitor in which many parts are supplied with high tension.

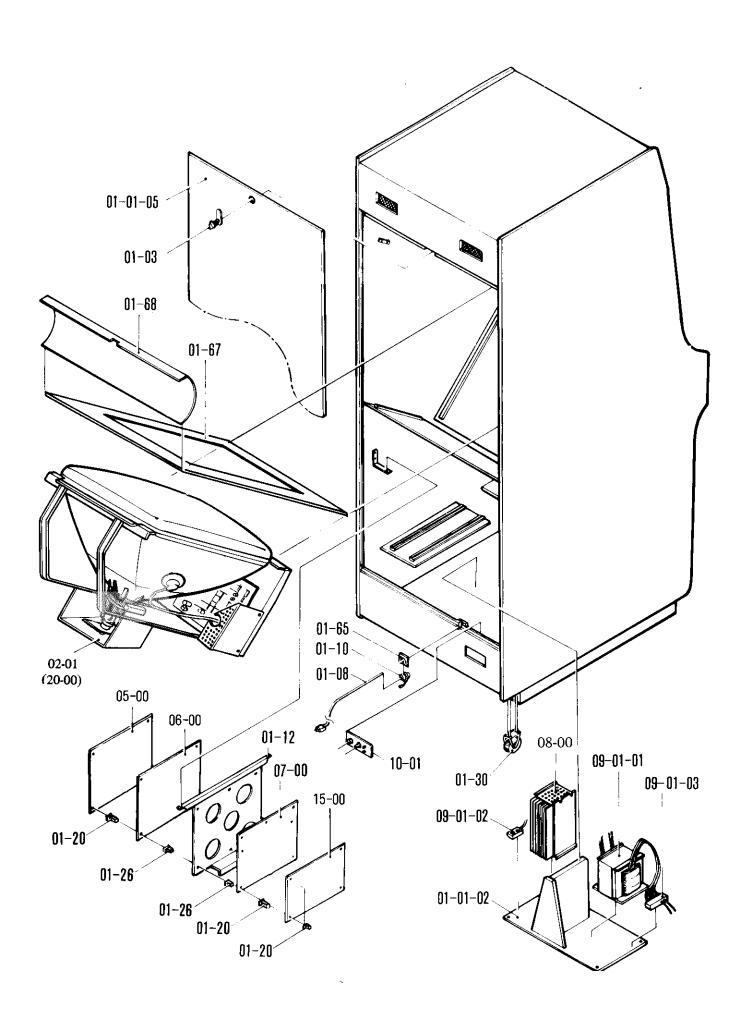
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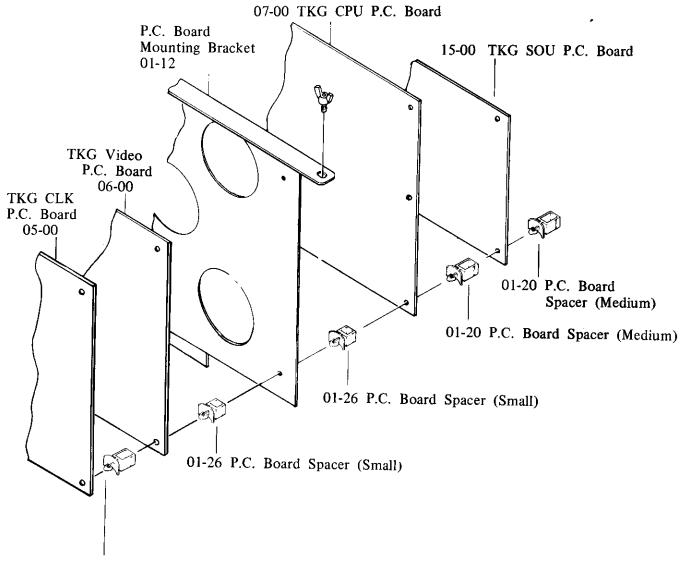


7. NAME OF EACH PART

(1) Body



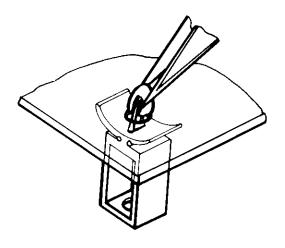




01-20 P.C. Board Spacer (Medium)

Removing P.C. Board Spacer

Press the claw with a pincette, as illustrated, and pull out the P.C. Board.



8. PARTS LIST

1. Body

| No. | Name of Parts | Q'ty | Remarks | FOB Japan per pc. |
|---------------|---------------------------------------|------|-----------|-------------------|
| TKGU-01-01-01 | Body | 1 | Tychlarko | per pe. |
| TKGU-01-01-02 | Transformer Base | 1 | | |
| TKGU-01-01-03 | Cash Box | 1 | | |
| TKGU-01-01-04 | Control Lever A'ssy Base | 1 | | |
| TKGU-01-01-05 | Back Door | 1 | | |
| TKGU-01-02 | Coin Selector | | т | |
| TKGU-01-02-01 | Coin Switch | 1 | T | |
| TKGU-01-03 | Back Door Lock | 1 | _ | |
| TKGU-01-04 | Front Door Lock | 1 | | |
| TKGU-01-08 | Power Cord | 1 | | |
| TKGU-01-10 | Strain Relief Bushing | 1 | Т | |
| TKGU-01-11 | Game Counter | 1 | T | |
| TKGU-01-12 | P.C. Board Mounting Bracket | 1 | Т | |
| TKGU-01-20 | P.C. Board Spacer (Medium) | 16 | Т | |
| TKGU-01-22 | Operation Panel | 1 | | |
| TKGU-01-23 | Front Screen | 1 | | |
| TKGU-01-24 | Name Plate | ı | | |
| TKGU-01-26 | P.C. Board Spacer (Small) | 10 | T | |
| TKGU-01-28 | Front Door Ass'y | 1 | - | |
| TKGU-01-29 | Fluorescent Lamp A'ssy | 1 | | |
| TKGU-01-30 | Caster | 2 | | |
| TKGU-01-31 | Operation Panel A'ssy Fastener (A) | 2 | | |
| TKGU-01-32 | Adhesive Tape | | 1.9m | |
| TKGU-01-33 | Service Switch | 1 | T | |
| TKGU-01-34 | Screen Filter | 1 | | |
| TKGU-01-39 | Control Lever A'ssy Mounting Plate | i | | |
| TKGU-01-41 | Control Lever Knob | 1 | | |
| TKGU-01-43 | Speaker | 1 | | |
| TKGU-01-53 | Front Screen Frame (Lower) | 1 | | į |
| TKGU-01-55 | Operation Panel A'ssy Fastener (B) | 2 | | |
| TKGU-01-64 | Service Switch Bracket | 1 | | İ |
| TKGU-01-65 | Strain Relief Bushing Plate | 1 | | |
| TKGU-01-67 | Blind Cardboard (Large) | 1 | | |
| TKGU-01-68 | Blind Cardboard (Small) | 1 | | |
| TKGU-01-70 | Control Knob Plate | 1 | | |

| | | | | FOB Japan |
|---------------|--|------|-------------------|-----------|
| No. | Name of Parts | Q'ty | Remarks | per pc. |
| TKGU-05-00 | CLK P.C. Board | 1 | T (TKG3-04-CLK) | |
| TKGU-06-00 | Video P.C. Board | 1 | T (TKG3-04-Video) | |
| TKGU-07-00 | CPU P.C. Board | 1 | T (TKG3-04-CPU) | |
| TKGU-15-00 | SOU P.C. Board | 1 | T (TKG3-05-SOU) | <u> </u> |
| TKGU-08-00 | (PP-7A) Power P.C. Board | 1 | Т | |
| TKGU-09-01-01 | (PT-8A) Power Transformer | 1 | | |
| TKGU-09-01-02 | 2P Table Tap | 1 | | |
| TKGU-09-01-03 | Terminal Block | 1 | | |
| TKGU-10-01 | Power Switch A'ssy | 1 | | |
| TKGU-13-01 | 10P CLK Harness Connector | 1 | T | |
| TKGU-13-02 | 2P Counter Harness Connector | 1 | | |
| TKGU-13-03 | 9P CPU Harness Connector | 1 | T | |
| TKGU-13-04 | 3P Coin Harness Connector | 1 | | |
| TKGU-13-05 | 5P Service Harness Connector | 1 | | |
| TKGU-13-06 | 2P Speaker TV Harness Connector | 1 | | |
| TKGU-13-07 | 4P-750 Audio Harness Connector | 1 | | |
| TKGU-13-10 | 9P Main Switch Harness Connector | 1 | | |
| TKGU-13-11 | 17P Junction Harness Connector | l | | |
| TKGU-13-12 | 50P Flat Cable | 4 | T | |
| TKGU-13-13 | 8P Video Harness Connector | 1 | Т | |
| TKGU-13-14 | 7P SOU Harness Connector | 1 | Т | |
| TKGU-13-17 | 2P Speaker Harness Connector | 1 | | |
| TKGU-13-24 | 15P SOU Harness Connector | 1 | Т | |
| TKGU-13-25 | 5P SOU Harness Connector | 1 | T | |
| TKGU-13-28 | 3P Junction Harness Connector | 1 | | } |
| TKGU-13-29 | 4P Main Switch Harness Connector | 1 | | |
| TKGU-13-31 | 6P-1000 Video Harness Connector | 1 | | |
| TKGU-13-32 | 2P Counter Junction Harness Connector | 1 | | |
| TKGU-13-33 | 3P Coin Junction Harness Connector | 1 | | |
| TKGU-20-00 | Video Monitor | 1 | (20-5F) | |
| TKGU-23-10 | Micro Switch | 1 | | |
| TKGU-23-12 | Switch Button Bracket | 4 | | |
| TKGU-23-13 | Control Switch | 1 | T | |
| TKGU-23-14 | Blind Plate | 1 | Т | |
| TKGU-23-16 | Bearing Bracket | 1 | T | |

| No. | Name of Parts | Q'ty | Remarks | FOB Japan per pc. |
|------------|------------------------------|------|---------|----------------------|
| TKGU-23-17 | Switch Spacer | 4 | T | |
| TKGU-23-19 | Shaft | 1 | .T | |
| TKGU-23-20 | Spring Stopper | 1 | T | |
| TKGU-23-21 | Switch Collar | 1 | T | |
| TKGU-23-22 | Lever Spring | 1 | T | |
| TKGU-23-23 | E Ring 4 | 1 | T | |
| TKGU-23-26 | Nut Plate | 4 | | |
| TKGU-23-29 | Control Knob Collar | 1 | T | |
| TKGU-23-31 | Switch Button A'ssy (Blue) | 3 | | |
| TKGU-23-32 | Switch Button A'ssy (Orange) | 1 | | |
| TKGU-23-34 | Pal Nut | 4 | | |
| TKGU-23-50 | 4 Way Control Lever A'ssy | 1 | T | |
| TKGU-23-51 | 4 Way Guide Plate | 1 | Т | |

 $T: \mbox{\bf Parts}$ which is also used with the $\mbox{\bf Table}$ $\mbox{\bf Model}.$

2. CLK P.C. Board

| TKG-05-01 C 10101 1 Quadruple OR/NOR Gates TKG-05-02 IC 10104 4 Quadruple 2-Input AND Gates Triple 2-3-2-Input OR/NOR Gates Triple 2-3-2-Input OR/NOR Gates Triple 2-3-2-Input OR/NOR Gates Triple 2-3-2-Input OR/NOR Gates Triple 2-Input Exclusive-OR/NOR Gates Triple 2-Input Exclusive-OR/NOR Gates Triple 2-Input Exclusive-OR/NOR Gates Triple 2-Input OR/NOR Gates Triple 2-Input OR/NOR Gates Triple Line Receivers TKG-05-06 IC 10116 1 Triple Line Receivers TKG-05-08 IC 10124 6 Quadruple TTL-to-ECL Translators TKG-05-09 IC 10125 6 Quadruple ECL-to-TTL Translators TKG-05-10 IC 10131 2 Dual Type-D Master-Slave Flip Flops Quadruple Latches TKG-05-11 IC 10133 4 Quadruple Latches TKG-05-12 IC 10135 2 Dual J-K Master-Slave Flip-Flop Universal Hexadecimal Counter TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-15 IC SN74LS04 1 Hex Inverter TKG-05-16 IC SN74LS04 1 Hex Inverter Tri 3-Input NAND Gate TKG-05-17 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS16 2 Quadruple 2-Input Exclusive OR Gate TKG-05-19 IC SN74LS164 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22 IC IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22 IC IC SN74LS164 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-22 IC CBC-17 CERNON-18 | ipan c. |
|---|------------|
| TKG-05-02 IC 10104 4 Quadruple 2-Input AND Gates TKG-05-03 IC 10105 8 Triple 2-3-2-Input OR/NOR Gates TKG-05-04 IC 10107 6 Triple 2-Input Exclusive-OR/NOR Gates TKG-05-05 IC 10109 1 Dual 4-5-Input OR/NOR Gates TKG-05-06 IC 10116 1 Triple Line Receivers TKG-05-08 IC 10124 6 Quadruple TTL-to-ECL Translators TKG-05-09 IC 10125 6 Quadruple ECL-to-TTL Translators TKG-05-10 IC 10131 2 Dual Type-D Master-Slave Flip Flops TKG-05-11 IC 10133 4 Quadruple Latches TKG-05-12 IC 10135 2 Dual J-K Master-Slave Flip-Flop TKG-05-12 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-15 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-16 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS86 2 Quadruple 2-Input Exc | |
| TKG-05-03 IC 10105 8 Triple 2-3-2-Input OR/NOR Gates TKG-05-04 IC 10107 6 Triple 2-Input Exclusive-OR/NOR Gates TKG-05-05 IC 10109 1 Dual 4-5-Input OR/NOR Gates TKG-05-06 IC 10116 1 Triple Line Receivers TKG-05-08 IC 10124 6 Quadruple TTL-to-ECL Translators TKG-05-09 IC 10125 6 Quadruple ECL-to-TTL Translators TKG-05-10 IC 10131 2 Dual Type-D Master-Slave Flip Flops TKG-05-11 IC 10133 4 Quadruple Latches TKG-05-12 IC 10135 2 Dual J-K Master-Slave Flip-Flop TKG-05-13 IC 10136 with radiator fin(L) 7 Universal Hexadecimal Counter TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-15 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-16 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS164 6< | |
| TKG-05-04 IC 10107 6 Triple 2-Input Exclusive-OR/NOR Gates TKG-05-05 IC 10109 1 Dual 4-5-Input OR/NOR Gates TKG-05-06 IC 10116 1 Triple Line Receivers TKG-05-08 IC 10124 6 Quadruple TTL-to-ECL Translators TKG-05-09 IC 10125 6 Quadruple ECL-to-TTL Translators TKG-05-10 IC 10131 2 Dual Type-D Master-Slave Flip Flops TKG-05-11 IC 10133 4 Quadruple Latches TKG-05-12 IC 10135 2 Dual J-K Master-Slave Flip-Flop TKG-05-13 IC 10136 with radiator fin(L) 7 Universal Hexadecimal Counter TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-15 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-16 IC SN74LS04 1 Hex Inverter TKG-05-17 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS164 6 | |
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| TKG-05-06 IC 10116 1 Triple Line Receivers TKG-05-08 IC 10124 6 Quadruple TTL-to-ECL Translators TKG-05-09 IC 10125 6 Quadruple ECL-to-TTL Translators TKG-05-10 IC 10131 2 Dual Type-D Master-Slave Flip Flops TKG-05-11 IC 10133 4 Quadruple Latches TKG-05-12 IC 10135 2 Dual J-K Master-Slave Flip-Flop TKG-05-13 IC 10136 with radiator fin(L) 7 Universal Hexadecimal Counter TKG-05-13 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-14 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-15 IC SN74LS04 1 Hex Inverter TKG-05-16 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-17 IC SN74LS74 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-21 IC MB7072 | |
| TKG-05-08 IC 10124 6 Quadruple TTL-to-ECL Translators TKG-05-09 IC 10125 6 Quadruple ECL-to-TTL Translators TKG-05-10 IC 10131 2 Dual Type-D Master-Slave Flip Flops TKG-05-11 IC 10133 4 Quadruple Latches TKG-05-12 IC 10135 2 Dual J-K Master-Slave Flip-Flop TKG-05-13 IC 10136 with radiator fin(L) 7 Universal Hexadecimal Counter TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-14 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-15 IC SN74LS04 1 Hex Inverter TKG-05-16 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS14 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-21 IC MB7072 E/N with radiator fin(S) 4 256X4 Bit ECL RAM TKG-05-23 | |
| TKG-05-09 IC 10125 6 Quadruple ECL-to-TTL Translators TKG-05-10 IC 10131 2 Dual Type-D Master-Slave Flip Flops TKG-05-11 IC 10133 4 Quadruple Latches TKG-05-12 IC 10135 2 Dual J-K Master-Slave Flip-Flop TKG-05-13 IC 10136 with radiator fin(L) 7 Universal Hexadecimal Counter TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-15 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-16 IC SN74LS04 1 Hex Inverter TKG-05-17 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS74 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS161/163 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-23 Electrolytic Capacitor 2 100μF 16V | |
| TKG-05-10 IC 10131 2 Dual Type-D Master-Slave Flip Flops TKG-05-11 IC 10133 4 Quadruple Latches TKG-05-12 IC 10135 2 Dual J-K Master-Slave Flip-Flop TKG-05-13 IC 10136 with radiator fin(L) 7 Universal Hexadecimal Counter TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-15 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-16 IC SN74LS04 1 Hex Inverter TKG-05-17 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS74 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS161/163 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22B IC MB7072 E/N with radiator fin(S) 4 256X4 Bit ECL RAM TKG-05-23 Electrolytic Capacitor 2 100μF 16V | |
| TKG-05-11 IC 10133 4 Quadruple Latches TKG-05-12 IC 10135 2 Dual J-K Master-Slave Flip-Flop TKG-05-13 IC 10136 with radiator fin(L) 7 Universal Hexadecimal Counter TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-15 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-16 IC SN74LS04 1 Hex Inverter TKG-05-17 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS74 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS161/163 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22B IC MB7072 E/N with radiator fin(S) TKG-05-23 Electrolytic Capacitor 2 100μF 16V | |
| TKG-05-12 IC 10135 TKG-05-13 IC 10136 with radiator fin(L) TKG-05-14 IC 10174 TKG-05-15 IC SN74LS02 TKG-05-16 IC SN74LS04 TKG-05-17 IC SN74LS10 TKG-05-18 IC SN74LS74 TKG-05-19 IC SN74LS86 TKG-05-20 IC SN74LS161/163 TKG-05-21 IC SN74LS164 TKG-05-22B IC MB7072 E/N with radiator fin(S) TKG-05-23 Electrolytic Capacitor 2 Dual J-K Master-Slave Flip-Flop Universal Hexadecimal Counter Universal H | |
| TKG-05-13 IC 10136 with radiator fin(L) 7 Universal Hexadecimal Counter TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-15 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-16 IC SN74LS04 1 Hex Inverter TKG-05-17 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS74 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS161/163 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22B IC MB7072 E/N with radiator fin(S) TKG-05-23 Electrolytic Capacitor 2 100μF 16V | |
| TKG-05-14 IC 10174 6 Dual 4-to-1 Multiplexers TKG-05-15 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-16 IC SN74LS04 1 Hex Inverter TKG-05-17 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS74 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS161/163 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22B IC MB7072 E/N with radiator fin(S) TKG-05-23 Electrolytic Capacitor 2 100μF 16V | |
| TKG-05-15 IC SN74LS02 1 Quadruple 2-Input Positive NOR Gate TKG-05-16 IC SN74LS04 1 Hex Inverter TKG-05-17 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS74 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS161/163 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22 IC MB7072 E/N 4 256X4 Bit ECL RAM TKG-05-23 Electrolytic Capacitor 2 100μF 16V | |
| TKG-05-16 IC SN74LS04 1 Hex Inverter TKG-05-17 IC SN74LS10 1 Tri 3-Input NAND Gate TKG-05-18 IC SN74LS74 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS161/163 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22B IC MB7072 E/N with radiator fin(S) 4 256X4 Bit ECL RAM TKG-05-23 Electrolytic Capacitor 2 100μF 16V | |
| TKG-05-17 IC SN74LS10 IC SN74LS74 IC SN74LS74 IC SN74LS74 IC SN74LS86 IC SN74LS86 IC SN74LS161/163 IC SN74LS161/163 IC SN74LS164 IC SN74LS164 IC SN74LS164 IC SN74LS164 IC SN74LS164 IC SN74LS164 IC SN74LS165 IC SN74LS164 IC | |
| TKG-05-18 IC SN74LS74 2 Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset TKG-05-19 IC SN74LS86 2 Quadruple 2-Input Exclusive OR Gate TKG-05-20 IC SN74LS161/163 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22B IC MB7072 E/N with radiator fin(S) TKG-05-23 Electrolytic Capacitor 2 100μF 16V | |
| TKG-05-19 IC SN74LS86 TKG-05-20 IC SN74LS161/163 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 Bit Serial-In Parallel-Out Shift Register TKG-05-22B IC MB7072 E/N with radiator fin(S) TKG-05-23 Electrolytic Capacitor UV/Set and Reset Quadruple 2-Input Exclusive OR Gate Synchronous Presettable 4-Bit Counter with Clear Bit Serial-In Parallel-Out Shift Register 256X4 Bit ECL RAM | |
| TKG-05-20 IC SN74LS161/163 2 Synchronous Presettable 4-Bit Counter with Clear TKG-05-21 IC SN74LS164 6 8 Bit Serial-In Parallel-Out Shift Register TKG-05-22B IC MB7072 E/N with radiator fin(S) TKG-05-23 Electrolytic Capacitor 2 100µF 16V | |
| TKG-05-21 IC SN74LS164 TKG-05-22B IC MB7072 E/N with radiator fin(S) TKG-05-23 Electrolytic Capacitor with Clear 8 Bit Serial-In Parallel-Out Shift Register 4 256X4 Bit ECL RAM 100µF 16V | |
| TKG-05-22B IC MB7072 E/N 4 256X4 Bit ECL RAM with radiator fin(S) TKG-05-23 Electrolytic Capacitor 2 100µF 16V | |
| with radiator fin(S) TKG-05-23 Electrolytic Capacitor 2 100µF 16V | |
| | |
| TKG-05-24 Ceramic Capacitor 86 0.01 µF 50V | |
| TRG 05 21 Column Capacitor | |
| TKG-05-26B Ceramic Capacitor 2 220pF 50V | |
| TKG-05-27 Ceramic Capacitor 2 10pF 50V | |
| TKG-05-28 Ceramic Capacitor 2 33pF 50V | |
| TKG-05-29 B Resistor 1 330Ω ¼W ± 5% | |
| TKG-05-30 B Resistor 49 $510\Omega \ ^{1}W \pm 5\%$ | |
| TKG-05-32 B Resistor $ 6 $ | |
| TKG-05-33 B Resistor 2 2.2KΩ ¼W ± 5% | |

| No. | Name of Parts | Q'ty | Remarks | FOB Japan per pc. |
|-------------|--------------------------|------|---------------------------------------|-------------------|
| TKG-05-34 B | Resistor | 1 | 10KΩ ¼W ± 5% | |
| TKG-05-35 B | Resistor | 2 | 15KΩ ¼W ± 5% | |
| TKG-05-36 B | Resistor | 1 | 20KΩ ¼W ± 5% | • |
| TKG-05-37 B | Resistor | 1 | 51KΩ ¼W ± 5% | |
| TKG-05-38 | Transistor | 2 | 2SC1215-R/S/T | |
| TKG-05-39 | Choke Co I | 1 | ST-501339 | |
| TKG-05-40 | Toroidal Transformer | 1 | ST-501340 | |
| TKG-05-41 | Crystal Oscillator | 1 | ST-501338 | |
| TKG-05-42 | Resistor Array | 14 | EXB-P88-511J | |
| TKG-05-43 | IC SN74 LS123 | 2 | Dual Retriggerable Single shot | |
| TKG-05-44 | Polyester Film Capacitor | 1 1 | ECQMIH 0.001μF 102KZ | |
| TKG-05-45 | Polyester Film Capacitor | 1 | ECQMIH 0.022µF 223KZ | |
| TKG-05-46 | Polyester Film Capacitor | 1 1 | ECQMIH 0.1μF 104KZ | |
| TKG-05-47 | Resistor (Carbon) | 1 1 | 200Ω ¼W ± 5% | |
| TKG-05-48 | Resistor (Carbon) | 2 | 4.7 K Ω $\frac{1}{4}$ W ± 5% | |
| TKG-05-49 | Resistor (Carbon) | 2 | 22KΩ ¼W ± 5% | |
| TKG-05-50 | Variable Resistor | 2 | EVL-V0A00-B54 50KΩ 1/3W | |

3. Video P.C. Board

| No. | Name of Parts | Q'ty | Remarks | FOB Japan per pc. |
|------------|------------------------|------|--|----------------------|
| TKG-06-00B | Video P.C. Board | 1 | Complete Set | |
| TKG-06-01 | IC SN74LS04 | 1 | Hex Inverter | |
| TKG-06-02 | IC SN74LS08 | 1 | Quadruple 2-Input Positive AND Gate | • |
| TKG-06-03 | IC SN74LS20 | 2 | Dual 4-Input Positive NAND Gate | |
| TKG-06-04 | IC SN74LS74 | 1 | Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset | |
| TKG-06-05 | IC SN74LS86 | 2 | Quadruple 2-Input Executive OR Gate | |
| TKG-06-06 | IC SN74LS139 | 1 | Dual 2-to 4-line Decoder/Demultiplexer | |
| TKG-06-07 | IC SN74LS157 | 9 | Quadruple 2-line to 1-line Data Selector/ Multiplexer | |
| TKG-06-08 | IC SN74LS174 | 1 | Hex D-Type Flip-Flop W/Reset | |
| TKG-06-09 | IC SN74LS194 | 4 | 4-Bit Shift Register | |
| TKG-06-10 | IC SN74LS245 | 2 | Octal 3 State Bus Transceivers | |
| TKG-06-11 | IC SN74LS273 | 2 | Octal D-FFS | |
| TKG-06-12 | IC SN74LS283 | 4 | 4 Bit Binary Full Adder | |
| TKG-06-13 | IC SN74LS367 | 2 | Hex Bus Driver W/3 State Output | |
| TKG-06-14 | IC SN74LS373 | 1 | Octal 3-State D-latches | |
| TKG-06-15 | IC SN74S02 | 1 | Quad 2 Input NOR Gate | |
| TKG-06-16 | IC SN74S86 | 1 | Quad 2 Input EX-OR Gate | |
| TKG-06-17 | IC SN74S157 | 1 | 2 to 1 Data Selectors | |
| TKG-06-18 | IC SN74S194 | 8 | 4-Bit Shift Register | |
| TKG-06-20 | IC 2114 | 2 | 1024X 4-Bit Static MOS RAM | |
| TKG-06-21 | IC 2148-6 | 2 | 1024X 4-Bit Static MOS RAM | |
| TKG-06-22 | IC 2716 (390ns) | 4 | 2048X 8 Bit EP ROM | |
| TKG-06-23 | IC 2716 (450ns) | 2 | 2048X 8 Bit EP ROM | |
| TKG-06-24B | IC MB 7052 | 1 | 256X4 Bit Bipolar P-ROM | |
| TKG-06-25 | Resistor | 7 | 1KΩ ¼W ± 5% | |
| TKG-06-26 | Electrolytic Capacitor | 1 | 100μF 16V | |
| TKG-06-27 | Ceramic Capacitor | 33 | 0.1μF 50V | |
| TKG-06-28 | IC SN74LS10 | 1 | Tri 3 Input NAND Gate | |
| TKG-06-29 | IC SN74LS85 | 2 | 4-Bit Magnitude Comparator | |
| TKG-06-30 | IC SN74LS175 | 1 | Quadruple D-FFs | |
| TKG-06-31 | IC SN74LS293 | 1 | Binary Counter | |
| TKG-06-32 | IC SN74LS393 | 1 | Dual 4-Bit Binary Counters Gate | |
| TKG-06-33 | IC SN74S 32 | 1 | Quadruple 2 Input OR | |
| TKG-06-34 | IC SN74S 175 | 2 | Quadruple D-FFs | |

4. CPU P.C. Board

| No. | Name of Parts | Q'ty | Remarks | FOB Japan per pc. |
|-------------------|------------------------|------|---|----------------------|
| TKG-07-001 | B CPU P.C. Board | 1 | Complete Set | |
| TKG-07-01 | IC 2114 | 6 | 1024X4 Bit Static MOS RAM | |
| TKG-07-04 | IC SN74LS00 | 1 | Quadruple 2-Input Positive NAND Gate | |
| TKG-07-05 | IC SN74LS02 | 3 | Quadruple 2-Input Positive NOR Gate | |
| TKG-07-06 | IC SN74LS04 | 7 | Hex Inverter | |
| TKG-07-07 | IC SN74LS08 | 2 | Quadruple 2-Input Positive AND Gate | |
| TKG-07-08 | IC SN74LS32 | 1 | Quadruple 2-Input Positive OR Gate | |
| TKG-07-09 | IC SN74LS74 | 2 | Dual D-Type Edge-Triggered Flip-Flop W/Set and Reset | |
| TKG-07-10 | IC SN74LS123 | 1 | Dual Retriggerable Single Shot | |
| TKG-07-11 | IC SN74LS125 | 1 | Quadruple 3 State Bus Buffers | |
| TKG-07-12 | IC SN74LS132 | 1 | Quadruple 2 Input NAND Schmit Triggers | , |
| TKG-07-13 | IC SN74LS138 | 6 | 3-to 8-Line Decoder/Demultiplexer | |
| TKG-07-14 | IC SN74LS139 | 1 | Dual 2-to 4-Line Decoder/Demultiplexer | |
| TKG-07-15 | IC SN74LS174 | 2 | Hex D-Type Flip-Flop W/Reset RAM | |
| TKG-07-16 | IC SN74LS175 | 2 | Quadruple D-Type Flip-Flop W/Reset | |
| TKG-07-17 | IC SN74LS240 | 4 | Octal Buffer/Line Driver/Line Receiver W/3-State Output | |
| TKG-07-18 | IC SN74LS245 | 1 | Octal 3-State Bus Transceivers | |
| TKG- 07-19 | IC SN74LS259 | 2 | 8-Bit Addressable Latches | |
| TKG-07-20 | IC SN74LS367 | 5 | Hex Bus Driver W/3 State Output | |
| TKG-07-21 | IC MB7052 | 2 | Bipolar ROM 256X 4-Bit | |
| TKG-07-22 | IC Z 80A | 1 | 8-Bit Microprocessor | |
| TKG-07-23 | IC I 8257-5 | 1 | DMA Controller | |
| TKG-07-24 | IC 2532 | 4 | 4096X 8-Bit EP ROM | |
| TKG-07-25 | Electrolytic Capacitor | 1 | IμF 50V | |
| TKG-07-26 | Electrolytic Capacitor | 1 | 47μF 16V | |
| TKG-07-27 | Electrolytic Capacitor | 3 | 100μF 16V | |
| TKG-07-28 | Ceramic Capacitor | 3 | 0.01µF 50V | |
| TKG-07-29 | Ceramic Capacitor | 41 | 0.1μF 50V | |
| TKG-07-30 | Tantalum Capacitor | 15 | 10μF 16V | - |
| TKG-07-31B | Resistor Array | 6 | 68Ω ¼W ± 5% | |
| TKG-07-32B | Resistor Array | 3 | 1KΩ ¼W ± 5% | |
| TKG-07-33B | Resistor Array | 1 | 4.7KΩ ¼W ± 5% | |

| No. | Name of Parts | . Q'ty | Remarks | FOB Japan per pc. |
|--------------------|------------------------|--------|--|-------------------|
| TKG-07-35B | Resistor | 2 | 680Ω ¼W ± 5% | |
| TKG-07-3 6B | Resistor | 1 | 360Ω ¼W ± 5% | |
| TKG-07-3 7B | Resistor | 1 | 18KΩ ¼W ± 5% | • |
| TKG-07-38B | Resistor | 1 | 30KΩ | |
| TKG-07-39 | Resistor | 6 | 68Ω ¼W ± 5% | |
| TKG-07-40 | Resistor | 3 | 100Ω ¼W ± 5% | |
| TKG-07-41 | Resistor | 1 | 200Ω ¹ / ₄ W ± 5% | |
| TKG-07-42 | Resistor | 4 | $220\Omega \qquad 4W \pm 5\%$ | |
| TKG-07-43 | Resistor | 7 | 330Ω $\frac{1}{4}W \pm 5\%$ | |
| TKG-07-44B | Resistor | 8 | $470\Omega \qquad ^{1}4W \pm 5\%$ | |
| TKG-07-45 | Resistor | 8 | $1K\Omega$ $\frac{1}{4}W \pm 5\%$ | |
| TKG-07-46B | Resistor | 1 | 2.2KΩ | |
| TKG-07-47 | Resistor | 1 | 2KΩ ¼W ± 5% | |
| TKG-07-48 | Resistor | 8 | $4.7 \text{K}\Omega$ $\frac{1}{4}\text{W} \pm 5\%$ | |
| TKG-07-49 | Resistor | 1 | $7.5 \text{K}\Omega$ $\frac{4}{4}\text{W} \pm 5\%$ | |
| TKG-07-50 | Resistor | 4 | 10KΩ | |
| TKG-07-51B | Resistor | 1 | 68KΩ 4W ± 5% | |
| TKG-07-52 | Resistor | 2 | $33K\Omega$ $\frac{1}{4}W \pm 5\%$ | |
| TKG-07-53B | Resistor | 1 | 75 K Ω $\frac{1}{4}$ W ± 5% | |
| TKG-07-54 | Transistor | 1 | 2SO1384-R | |
| TKG-07-55 | Transistor | 2 | 2SA564-Q/R | |
| TKG-07-56 | Transistor | 5 | 2SC828-P/Q/R | |
| TKG-07-57 | Diode | 1 | IS1885 | |
| TKG-07-58B | Diode | 5 | IS1953 | |
| TKG-07-59B | Dip Switch | 1 | DCC-8P | |
| TKG-07-60 | Resistor (Carbon) | 1 | 75 K Ω ¼W ± 5% | |
| TKG-07-61 | Resistor (Carbon) | 1 | 91KΩ ¾W ± 5% | |
| TKG-07-62 | Resistor (Carbon) | 1 | 390KΩ ¼W ± 5% | |
| TKG-07-63 | Resistor (Carbon) | 2 | 560KΩ ¼W ± 5% | |
| TKG-07-64 | IC SN74LS86 | 2 | Quadruple 2-Input EX-OR Gate | |
| TKG-07-65 | IC SN74LS164 | 1 | 8-Bit Shift Register | |
| TKG-07-66 | IC SN74LS373 | 2 | Octal 3-State D-Latches | |
| TKG-07-67 | IC CD4049 UB | 1 | Hex Buffer/Converter | |
| TKG-07-68 | IC CD4066B | 3 | Quadruple Bilateral Switch | |
| TKG-07-69 | Electrolytic Capacitor | 1 | 22μF 16V | |
| TKG-07-70 | Electrolytic Capacitor | 1 | 33μF 16V | |
| TKG-07-71 | Electrolytic Capacitor | 2 | 3.3μF 16V No Polarity-Type | |
| TKG- 07-72 | Electrolytic Capacitor | 1 | 0.47μF 50V No Polarity-Type | |
| | | L | | <u> </u> |

5. Power P.C. Board Unit

| No. | Name of Parts | Q'ty | Remarks | FOB Japan per pc. |
|-----------|-------------------------------------|------|----------------------------|----------------------|
| TKG-08-00 | Power P.C. Board | 1 | Complete Set | |
| TKG-08-01 | Transistor | 4 | 2SC2535 OR 2SC2335 | |
| TKG-08-02 | Transistor | 4 | 2SA817 | • |
| TKG-08-03 | Transistor | 1 | 2SA1015 | |
| TKG-08-04 | Fast Recovery Center Tap Diode | 1 | 5GG2C41 | |
| TKG-08-05 | Shot Key Diode | 2 | 15FWJ2C1 OR 30FWJ2C1 | |
| TKG-08-06 | Silicon Rectifier Diode | 1 | 1B4B41 | |
| TKG-08-07 | Silicon Rectifier Diode | 1 | S4VB40 4A 400VW | |
| TKG-08-08 | Hybrid IC | 2 | 3D-1000 | |
| TKG-08-09 | 3 Terminals Regulators | 1 | 78M24 0.5A 24 VW | |
| TKG-08-10 | 3 Terminals Regulators | 1 | 7812 IA 12 VW | |
| TKG-08-11 | Thyristors | 1 | 5P4M | |
| TKG-08-12 | Thyristors | 1 | 03P05M | |
| TKG-08-13 | Diode | 4 | IS1835 | |
| TKG-08-14 | Diode | 9 | IS954 | |
| TKG-08-15 | Diode | 1 | IS1588 | |
| TKG-08-16 | Photo Coupler | 1 | PS2002 | |
| TKG-08-17 | Zener Diode | 4 | 1Z27 OR RD27FB | |
| TKG-08-18 | Zener Diode | 2 | 05Z5.6V (05Z5.6L, RD5.6EB) | |
| TKG-08-19 | Zener Diode | 1 | 05Z13V (05Z15L) | |
| TKG-08-20 | Zener Diode | 1 | 05Z27V (RD27EC OR RD30EB) | |
| TKG-08-21 | Ceramic Capacitor | 3 | DE0707B471K2K 470pF 2KV | |
| TKG-08-22 | Ceramic Capacitor | 2 | DE0707B221K2K 220pF 2KV | |
| TKG-08-23 | Film Capacitor | 7 | MDD2J473M 0.047μF 630VW | |
| TKG-08-24 | Aluminium Electrolytic Capacitor | 2 | 330μF 200VW 105°C | |
| TKG-08-25 | Aluminium Electrolytic Capacitor | 8 | 2200μF 10V | |
| TKG-08-26 | Aluminium Electrolytic Capacitor | 1 | 470μF 50V | |
| TKG-08-27 | Aluminium Electrolytic Capacitor | 1 | 470μF 25V | |
| TKG-08-28 | Aluminium Electrolytic Capacitor | 1 | 10μF 16V | |
| TKG-08-29 | Aluminium Electrolytic Capacitor | 13 | 47μF 16V | |
| TKG-08-30 | Aluminium Electrolytic Capacitor | 1 | 47μF 35V | |
| TKG-08-31 | Aluminium Electrolytic Capacitor | 5 | 10μF 50V | |

| | | | | FOB Japan |
|-----------|-----------------------------|------|---|-----------|
| No. | Name of Parts | Q'ty | Remarks | рег рс. |
| TKG-08-32 | Film Capacitor | 1 | $0.01\mu\text{F}$ 50V | |
| TKG-08-33 | Film Capacitor | 2 | 1000pF 50V | |
| TKG-08-34 | Resistor (Coil Winding) | 1 | $22\Omega = 5W \pm 10\%$ | • |
| TKG-08-35 | Resistor (Carbon) | 3 | 100Ω $\frac{1}{2}$ W ± 5% | |
| TKG-08-36 | Resistor (Carbon) | 5 | $1K\Omega$ $\frac{4W \pm 5\%}{}$ | |
| TKG-08-37 | Resistor (Carbon) | 10 | 51Ω ¼W± 5% | |
| TKG-08-38 | Resistor (Metal Oxide) | 2 | $1K\Omega$ $2W \pm 10\%$ | |
| TKG-08-39 | Resistor (Carbon) | 6 | 12Ω ½W ± 5% | |
| TKG-08-40 | Resistor (Carbon) | 1 | 2.4KΩ ¼W± 5% | |
| TKG-08-41 | Resistor (Cement) | 1 | $22\Omega \qquad 5W \pm 10\%$ | |
| TKG-08-42 | Resistor (Cement) | 1 | 220Ω 5W ± 10% | |
| TKG-08-43 | Variable Resistor | 2 | 100KΩ GF06P | , |
| TKG-08-44 | Variable Resistor | 2 | 2KΩ GF06P | |
| TKG-08-45 | Shunt Resistor | 2 | 5MΩ ±20% | |
| TKG-08-46 | SC Coil | 1 | SC-02 | |
| TKG-08-47 | SF Coil | 2 | 100μH 8A | |
| TKG-08-48 | SF Coil | 1 | 800μH 2A | |
| TKG-08-49 | Auxiliary Power Transformer | 1 | EI-28 Type 3D-1000 | |
| TKG-08-50 | Oscillator Transformer | 4 | EE-16 Type 3D-1000 | |
| TKG-08-51 | Oscillator Transformer | 1 | EI-40 Type 3D-0077 | |
| TKG-08-52 | Oscillator Transformer | 1 | EC-35 Type 3D-0077 | |
| TKG-08-53 | Fuse Element | 1 | NR Type 4A | |

6. SOU P.C. Board

| No. | Name of Parts | Q'ty | Remarks | FOB Japan per pc. |
|--------------------|--------------------------|------|---|-------------------|
| TKG-15-00B | SOU P.C. Board | 1 | Complete Set | |
| (TKG-15-00C) | | | | |
| TKG-15-01 | IC SN74LS04 | 1 | Hex Inverter | |
| TKG-15-02 | IC SN74LS05 | 1 | Hex Inverter with Open Collector | |
| TKG-15-03 | IC SN74LS164 | 3 | 8 Bit Serial-In Parallel-Out Shift Register | |
| TKG-15-04 | IC MB3614 | 1 | Low Power Quadruple Operational Amplifiers | |
| TKG-15 - 05 | IC LM556 | 1 | Dual Timer | |
| TKG-15-07 | IC SN74LS86 | 1 | Quadruple 2-Input Exclusive OR Gate | |
| TKG-15-08 | IC SN74LS75 | 2 | Quadruple Bistable Latch | |
| TKG-15-09 | IC SN74LS161 | 1 | Synchronous Presettable 4-Bit Binary Counter W/Direct Reset | |
| TKG-15-10 | IC SN74LS367 | 1 | Hex Bus Driver W/3 State Output | |
| TKG-15-12 | IC CD4049UB | 2 | Hex Buffer/Converter (Inverting) | |
| TKG-15-13 | IC DAC08CQ | 1 | 8-Bit Digital-to-Analog Converter | |
| TKG-15-15 | IC 2716 | 2 | EP-ROM | |
| TKG-15-16 | IC MB8884 | 1 | 8-Bit Microprocessor | |
| TKG-15-18 | Crystal Oscillator | 1 | HC-18U-182 6.00MHz | |
| TKG-15-26 | Transistor | 9 | 2SC1815 | |
| TKG-15-27 | Diode | 10 | ISS53 | |
| TKG-15-29 B | Ceramic Capacitor | 2 | 22pF 50V | |
| TKG-15-30 | Ceramic Capacitor | 2 | 0.01μF 25V | |
| TKG-15-31 | Ceramic Capacitor | 1 | 0.001µF 25V | |
| TKG-15-32 | Ceramic Capacitor | 15 | 0.068μF 25V | |
| TKG-15-33 | Ceramic Capacitor | 1 | 0.022μF 25V | |
| TKG-15-34 | Electrolytic Capacitor | 2 | 220μF 16V | · |
| TKG-15-35 | Electrolytic Capacitor | 7 | 1μF 50V | |
| TKG-15-36 | Electrolytic Capacitor | 1 | 3.3μF 16V | |
| TKG-15-37 | Electrolytic Capacitor | 1 | 4.7μF 16V | |
| TKG-15-38 | Electrolytic Capacitor | 3 | 10μF 16V | |
| TKG-15-39 | Electrolytic Capacitor | 1 | 22μF 16V | |
| TKG-15-40 | Electrolytic Capacitor | 3 | 3.3μF 50V | - |
| TKG-15-41 | Electrolytic Capacitor | 1 | 4.7μF 50V | |
| TKG-15-42 | Electrolytic Capacitor | 2 | 33μF 16V | |
| TKG-15-43 | Polyester Film Capacitor | 1 | 0.033μF 50V | |
| TKG-15-44 | Polyester Film Capacitor | 2 | 0.047μF 50V | |

| | Y C Posts | Q'ty | Remarks | FOB Japan per pc. |
|-----------|--------------------------|------|--|-------------------|
| No. | Name of Parts | | Remarks | |
| TKG-15-47 | 24 Pin IC Socket | 1 | 120Ω ¼W ± 5% | |
| TKG-15-48 | Resistor (Carbon) | 1 | | • |
| TKG-15-49 | Resistor (Carbon) | 2 | $150\Omega \qquad \frac{1}{4}W \pm 5\%$ | |
| TKG-15-50 | Resistor (Carbon) | 1 | $750\Omega \qquad \frac{1}{4}W \pm 5\%$ | |
| TKG-15-51 | Resistor (Carbon) | 12 | $1K\Omega$ $\frac{4W \pm 5\%}{}$ | |
| TKG-15-52 | Resistor (Carbon) | 2 | $1.2K\Omega \qquad 4W \pm 5\%$ | |
| TKG-15-53 | Resistor (Carbon) | 1 | 3.9 K Ω 1 W ± 5% | |
| TKG-15-55 | Resistor (Carbon) | 3 | 4.7KΩ ¼W ± 5% | |
| TKG-15-56 | Resistor (Carbon) | 2 | 5.1 K Ω $\frac{4}{4}$ W ± 5% | |
| TKG-15-57 | Resistor (Carbon) | 5 | 5.6KΩ ¼W ± 5% | |
| TKG-15-59 | Resistor (Carbon) | 16 | 10KΩ ¼W ± 5% | |
| TKG-15-60 | Resistor (Carbon) | 1 | 12KΩ ¼W ± 5% | |
| TKG-15-62 | Resistor (Carbon) | 1 | 18KΩ ¼W ± 5% | |
| TKG-15-63 | Resistor (Carbon) | 1 | 20KΩ ¼W ± 5% | |
| TKG-15-64 | Resistor (Carbon) | 2 | $27K\Omega ^{1}\!\!/W \pm 5\%$ | |
| TKG-15-65 | Resistor (Carbon) | 2 | $43K\Omega \qquad ^{1}\!\!\!/4W \pm 5\%$ | |
| TKG-15-66 | Resistor (Carbon) | 8 | 47KΩ ¼W ± 5% | |
| TKG-15-67 | Resistor (Carbon) | 3 | 100KΩ ¼W ± 5% | |
| TKG-15-69 | Resistor (Carbon) | 2 | $2.0K\Omega ^{1}\!\!/W \pm 5\%$ | |
| TKG-15-70 | Resistor (Carbon) | 3 | $3.3M\Omega \qquad 4W \pm 5\%$ | |
| TKG-15-71 | IC SN74LS00 | 1 | Quadruple 2 Input NAND Gat | е |
| TKG-15-72 | Transistor | 1 | 2SC2320 Rank F | |
| TKG-15-73 | Polyester Film Capacitor | 1 | 0.068μF 50V ± 20% | |
| TKG-15-74 | Semi Fixed Resistor | 1 | 10KΩ 1/5W | |
| TKG-15-75 | Tantalum Capacitor | 1 | 22μF 16V | |