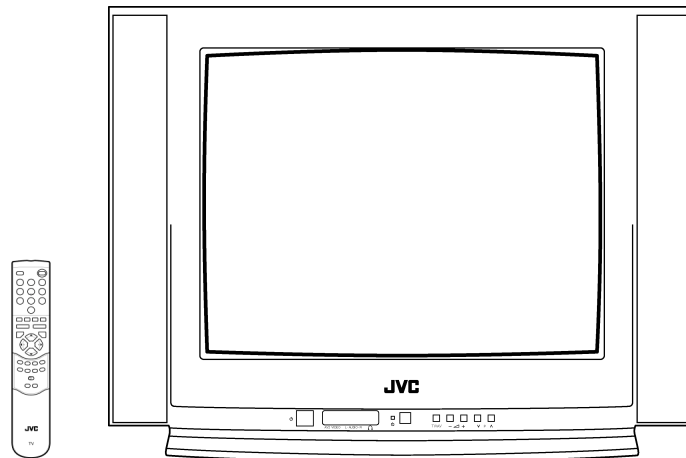


# JVC

## SERVICE MANUAL

### COLOUR TELEVISION

**AV-21BD5EKI / AV-21BD5EP / AV-21BD5EE  
AV-21BD5EKIS / AV-21BD5EPS / AV-21BD5EES**



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# SPECIFICATIONS

| Item                                 | Content                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TV RF SYSTEM                         | B/G, I, D/K & L/L'                                                                                                                                                                                                                                                                                                                                                                                                    |
| COLOUR STANDARD                      | PAL / SECAM / NTSC (AV only)                                                                                                                                                                                                                                                                                                                                                                                          |
| POWER INPUT                          | AC 230V, 50Hz                                                                                                                                                                                                                                                                                                                                                                                                         |
| POWER CONSUMPTION                    | 49W / 3W (STBY)                                                                                                                                                                                                                                                                                                                                                                                                       |
| TELETEXT SYSTEM                      | FLOF (Fastext) / TOP / WST (standard system)                                                                                                                                                                                                                                                                                                                                                                          |
| SOUND OUTPUT / SPEAKER               | 7W / 8 $\Omega$ ( $\times$ 2)                                                                                                                                                                                                                                                                                                                                                                                         |
| PICTURE TUBE SIZE                    | VISIBLE AREA 51cm (measured diagonally)                                                                                                                                                                                                                                                                                                                                                                               |
| ANTENNA INPUT                        | 75 $\Omega$ Unbalanced                                                                                                                                                                                                                                                                                                                                                                                                |
| INPUT / OUTPUT                       | FRONT: RCA JACK (VIDEO / AUDIO)<br>REAR : 21-PIN EURO CONNECTOR (SCART) $\times$ 2<br>(VIDEO / AUDIO / RGB / S. VHS) <div style="display: inline-block; vertical-align: middle; margin-left: 10px;">        COMMON INPUT     </div>                                                                                                  |
| INTERMEDIATE FREQUENCIES             | PIF : 38.9MHz (B/G, D/K, I, L) , 33.9MHz (L')<br>SIF : 33.4MHz (PAL / SECAM – B/G)<br>32.9MHz (PAL / SECAM – I / I)<br>32.4MHz (PAL / SECAM – D/K, SECAM – L)<br>40.4MHz (SECAM – L')<br><hr/> SOUND SUBCARRIER : 5.5MHz (PAL / SECAM – B/G)<br>6.0MHz (PAL / SECAM – I / I)<br>6.5MHz (PAL / SECAM – D/K, SECAM – L)<br>6.5MHz (SECAM – L')<br><hr/> COLOUR SUBCARRIER : 4.43MHz (PAL)<br>4.250MHz, 4.406MHz (SECAM) |
| REMOTE CONTROL                       | RM-C71 [ Batt, AAA (R03) ] (EP, EPS, EE, EES)<br>RM-C72 [ Batt, AAA (R03) ] (EKI, EKIS)                                                                                                                                                                                                                                                                                                                               |
| DIMENSIONS (W $\times$ H $\times$ D) | 615mm $\times$ 480mm $\times$ 480mm                                                                                                                                                                                                                                                                                                                                                                                   |
| MASS                                 | 20.3kg                                                                                                                                                                                                                                                                                                                                                                                                                |

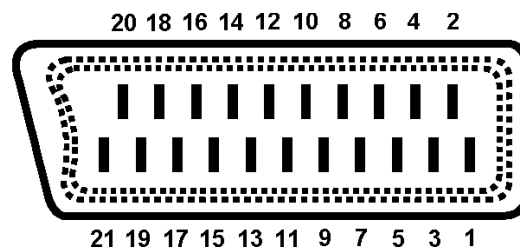
*Design & specifications are subject to change without notice.*

## ■ 21-pin Euro connector (SCART socket)

21Pin EURO-SCART 1:

| Pin No. | Signal Designation | Matching Value                                                  |
|---------|--------------------|-----------------------------------------------------------------|
| 1       | Audio Output Right | 0.5V(rms), Imp<1k $\Omega$ (RF 54% MOD)                         |
| 2       | Audio Input Right  | 0.5V(rms), Imp>10k $\Omega$                                     |
| 3       | Audio Output Left  | 0.5V(rms), Imp<1k $\Omega$ (RF 54% MOD)                         |
| 4       | Audio Earth        |                                                                 |
| 5       | Blue Earth         |                                                                 |
| 6       | Audio Input Left   | 0.5V(rms), Imp>10k $\Omega$                                     |
| 7       | Blue Input         | 0.7V(p-p) $\pm$ 0.1V, Imp75 $\Omega$                            |
| 8       | Slow Switching     | TV : 0-2V, AV 16/9 : 4.5-7V, AV 4/3 : 9.5-12V, Imp>10k $\Omega$ |
| 9       | Green Earth        |                                                                 |
| 10      | NC                 |                                                                 |
| 11      | Green Input        | 0.7V(p-p) $\pm$ 0.1V, Imp 75 $\Omega$                           |
| 12      | NC                 |                                                                 |
| 13      | Red Earth          |                                                                 |
| 14      | Blanking Earth     |                                                                 |
| 15      | Red Input          | 0.7V(p-p) $\pm$ 0.1V, Imp 75 $\Omega$                           |
| 16      | Fast Switching     | 0-0.4V : Logic "0", 1-3V : Logic "1", Imp75 $\Omega$            |
| 17      | Video Out Earth    |                                                                 |
| 18      | Video In Earth     |                                                                 |
| 19      | Video Output       | 1V(p-p) $\pm$ 3dB, Imp75 $\Omega$                               |
| 20      | Video Input        | 1V(p-p) $\pm$ 3dB, Imp75 $\Omega$                               |
| 21      | Common Earth       |                                                                 |

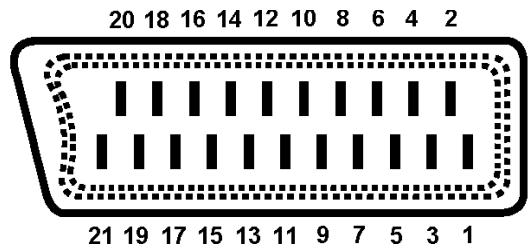
[Pin assignment]



21Pin EURO-SCART 2 :

| Pin No. | Signal Designation | Matching Value                         |
|---------|--------------------|----------------------------------------|
| 1       | NC                 |                                        |
| 2       | Audio Input Right  | 0.5V(rms), Imp<10kΩ                    |
| 3       | NC                 |                                        |
| 4       | Audio Earth        |                                        |
| 5       | Earth              |                                        |
| 6       | Audio Input Left   | 0.5V(rms), Imp>10kΩ                    |
| 7       | NC                 |                                        |
| 8       | NC                 |                                        |
| 9       | NC                 |                                        |
| 10      | NC                 |                                        |
| 11      | NC                 |                                        |
| 12      | NC                 |                                        |
| 13      | Earth              |                                        |
| 14      | Earth              |                                        |
| 15      | Chroma Input       | ±3dB for a luminance signal of 1V(p-p) |
| 16      | NC                 |                                        |
| 17      | Earth              |                                        |
| 18      | Video In Earth     |                                        |
| 19      | NC                 |                                        |
| 20      | Video Input, Y In. | 1V(p-p) ±3dB, Imp75Ω                   |
| 21      | Common Earth       |                                        |

[Pin assignment]



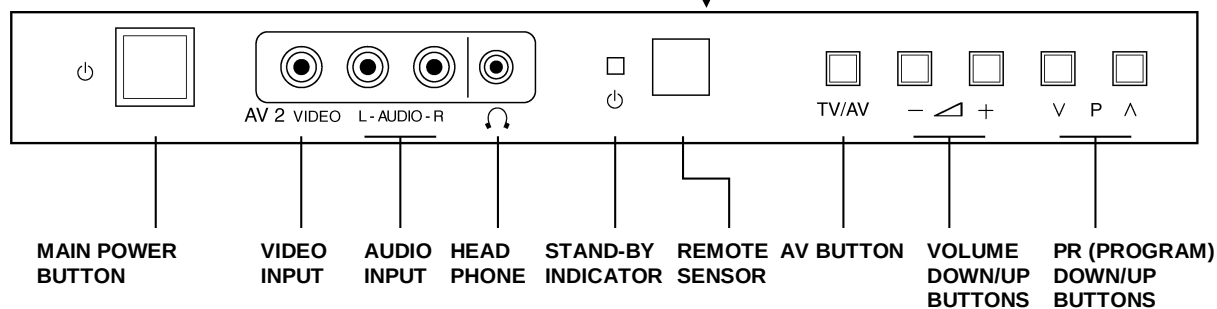
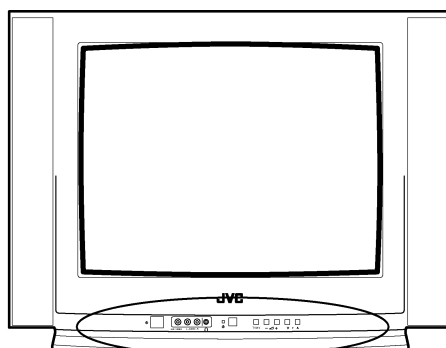
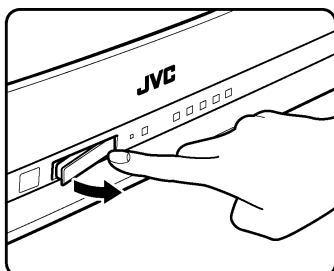
# SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (  $\Delta$  ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**  
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (  $\perp$  ) side GND, the ISOLATED(NEUTRAL) : (  $\text{⏏}$  ) side GND and EARTH : (  $\oplus$  ) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.  
If above note will not be kept, a fuse or any parts will be broken.
5. If any repair has been made to the chassis, it is recommended that the +B setting should be checked or adjusted (See +B ADJUSTMENT).
6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10k $\Omega$  2W resistor to the anode button.
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

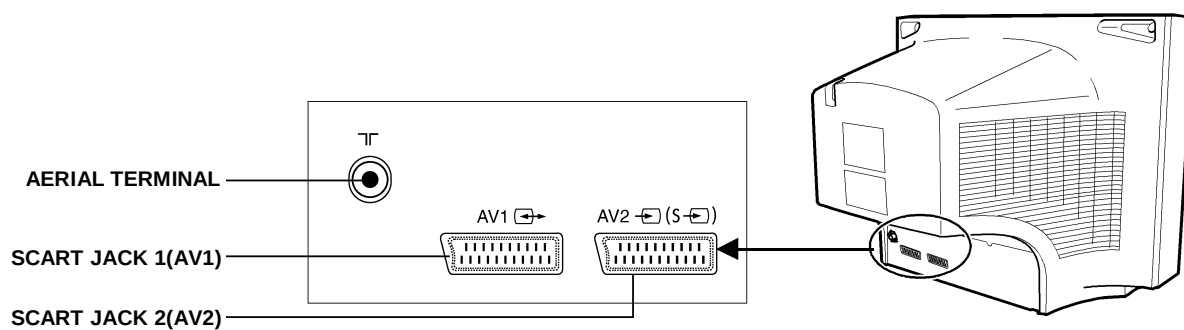
# FUNCTIONS

## LOCAL CONTROL

### FRONT



### BACK



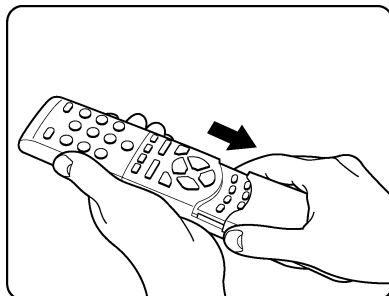
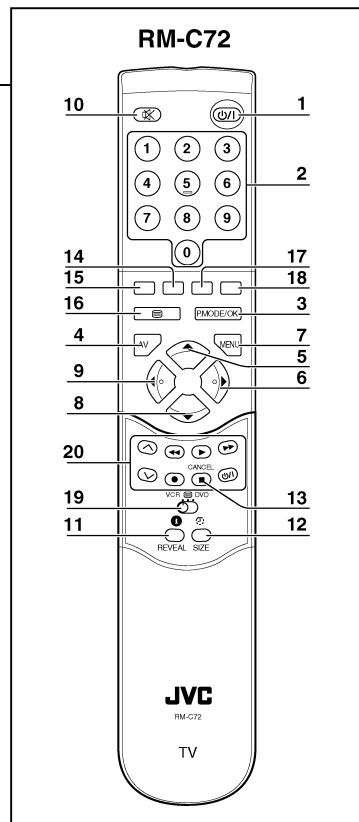
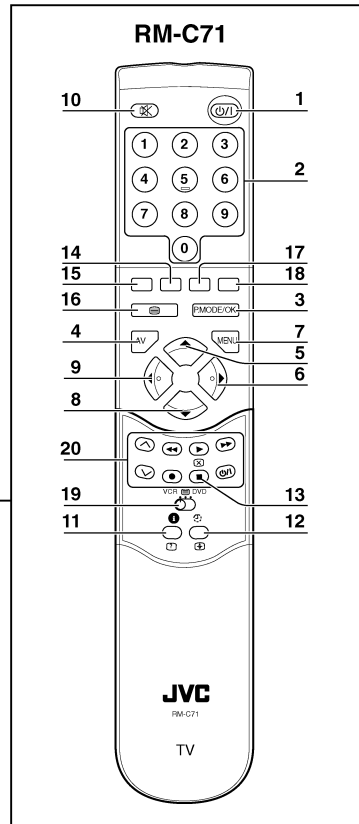
## REMOTE CONTROL

### TV mode

1. POWER
2. NUMBER 0-9 / NUMBER
3. P.MODE / OK
4. AV
5. UP
6. RIGHT
7. MENU
8. DOWN
9. LEFT
10. MUTING
11. RECALL
12. SLEEP
13. Not used
14. MOVE
15. SKIP
16. TV / TEXT
17. DELETE
18. MODE
19. VCR /  / DVD switch
20. VCR / DVD Control buttons

### TELETEXT mode

1. POWER
2. NUMBER 0-9
3. INDEX
4. Not used
5. UP
6. SUBPAGE
7. MENU
8. DOWN
9. HOLD
10. MUTING
11. REVEAL
12. SIZE
13. CANCEL
14. GREEN
15. RED
16. TV / TEXT
17. YELLOW
18. CYAN
19. VCR /  / DVD switch
20. Not used



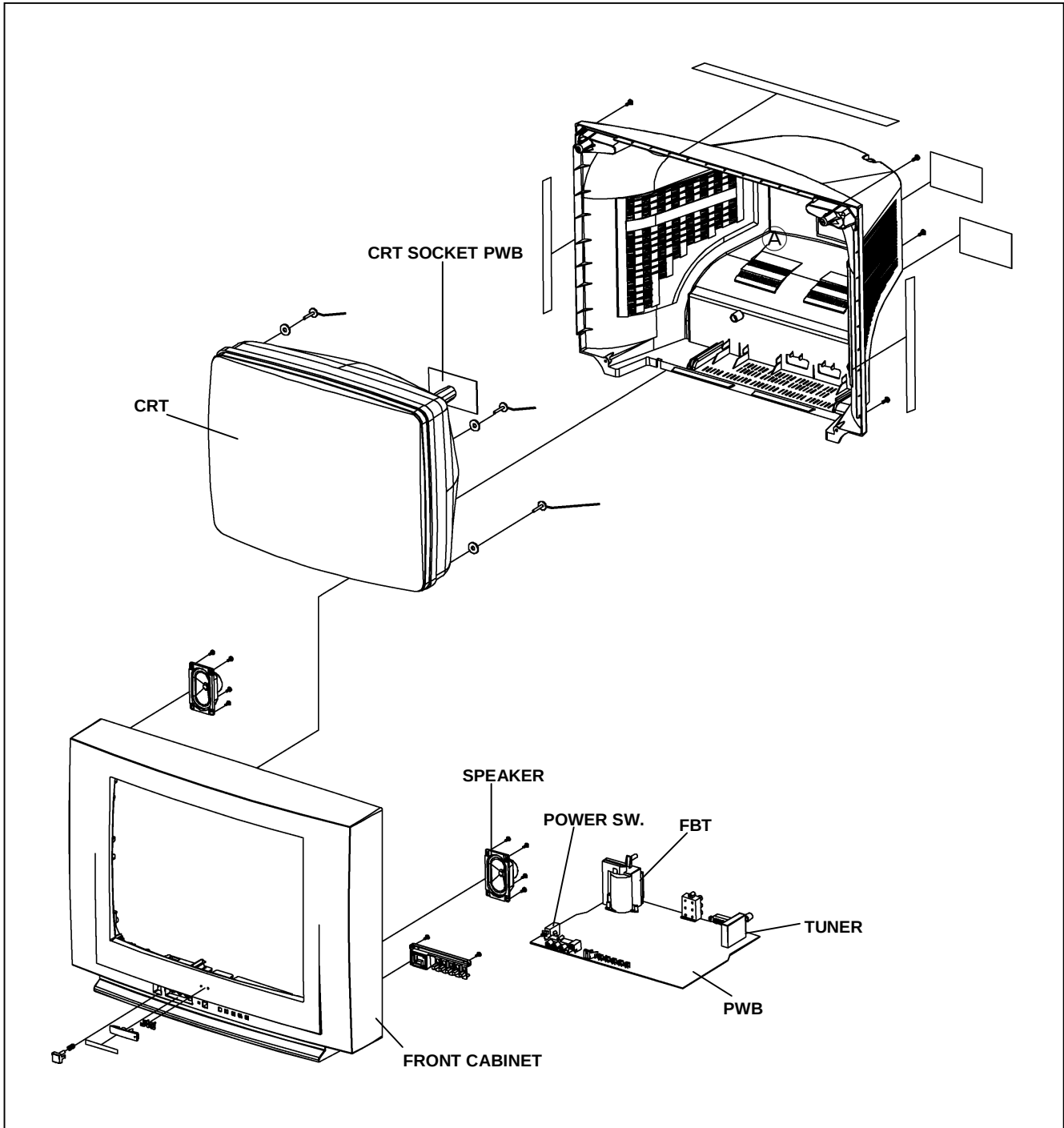
# SPECIFIC SERVICE INSTRUCTIONS

## DISASSEMBLY PROCEDURE

Note : Before starting work, disconnect the power plug from the wall outlet.

### HOW TO REMOVE THE REAR COVER

1. Remove the 5 screws marked (A) .
2. Remove the rear cover backward.



# SERVICE ADJUSTMENTS

## BEFORE ADJUSTMENT AND MAINTENANCE

1. Don't short any two soldering points or connect any component while TV set is power on.
2. Withdraw power plug before maintenance.
3. In order to ensure safety all components replaced should be identical. (For further details, refer to the component name and component No. in PARTS LIST.)
4. Must be warm up the set for 30 minutes or more and degauss CRT thoroughly with demagnetizer coil before adjustment.

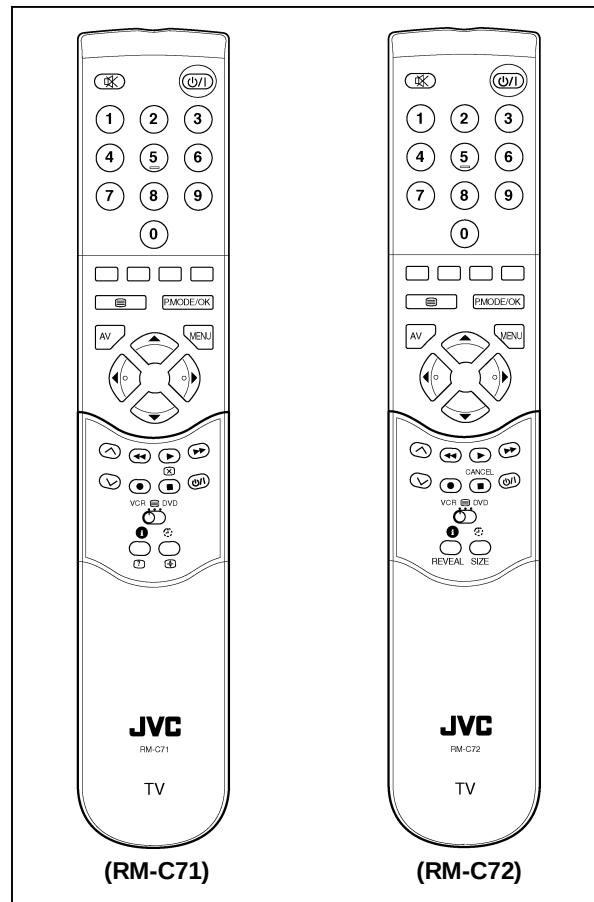
## EQUIPMENT FOR ADJUSTMENT

1. Pattern Generator
2. Digital volt meter
3. Oscilloscope
4. Demagnetizer
5. **Service** remote controller (For repair service)
6. Remote controller (RM-C71 or RM-C72)

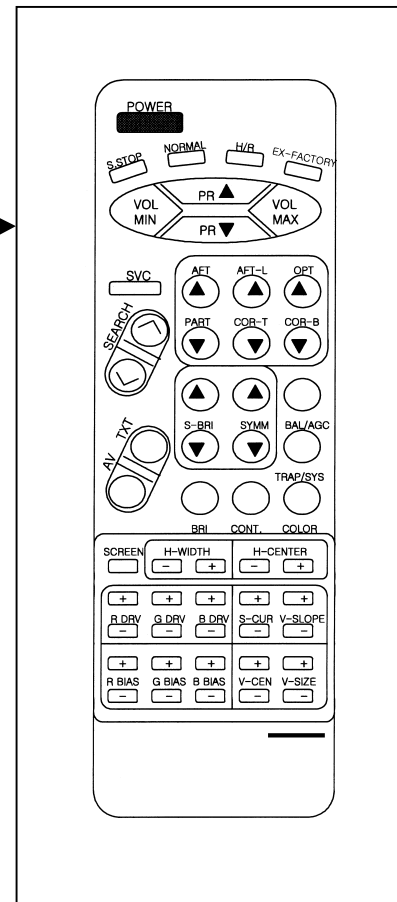
## ADJUSTMENTS PROCEDURES

### +B VOLTAGE CHECK

1. Receive a standard colour bar signal.
2. Connect digital volt meter between + of B1 Line circuit and GND.
3. Confirm that voltage is  $DC\ 123V \pm 2.0V$ .



Remote Controller



Service Remote Controller

## BASIC OPERATION OF SERVICE MENU

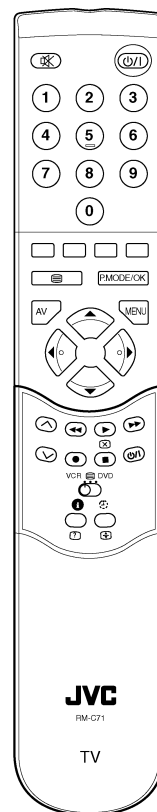
### REMOTE CONTROLLER (RM-C71, RM-C72)

#### How to ENTER and EXIT from service mode

1. Select the CH-91.
2. Press the MENU KEY of the remote control unit and select PICTURE from the MENU with the P.(▲)/ P.(▼) key of the remote control unit .
3. While pressing the P. MODE/OK KEY of the remote control unit, select "sharpness" from the MENU with the P.(▲)/ P.(▼) / ◀-/▶ + key. Then, set the set value of "sharpness" to "0" with the ◀-/▶ +KEY.
4. Press the MENU KEY of the remote control unit twice and return to the normal screen. To enter the SERVICE MODE, change the indication of RED, GREEN and MENU, in turn, with the key of the remote control unit.
5. When exiting from the SERVICE MODE, turn the power switch off.

#### How to set SERVICE MODE

1. Select the setting item you want to change with the P.(▲)/ P.(▼) key on the remote control unit. (The item you selected will be indicated by YELLOW on the display.)
2. When changing the set values, use the ◀-/▶ +KEY on the remote control unit.
3. When the setting has been completed, turn the power switch off. (The changed set values are stored in memory.)



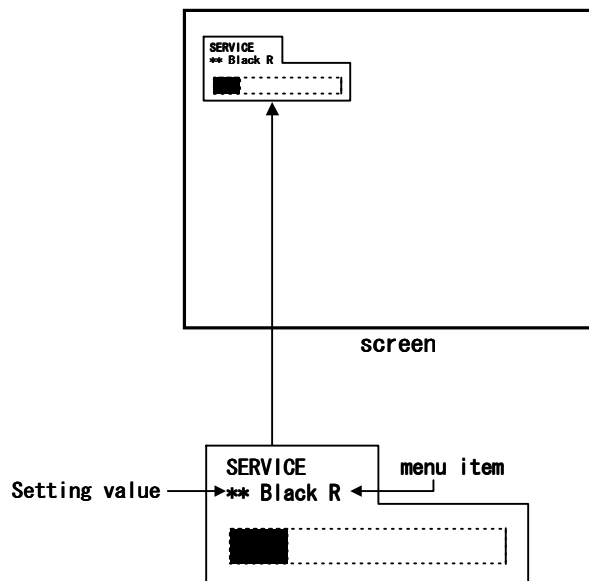
### SERVICE MENU screen selection

Press the P.(▲)/ P.(▼) key ..... select menu item.

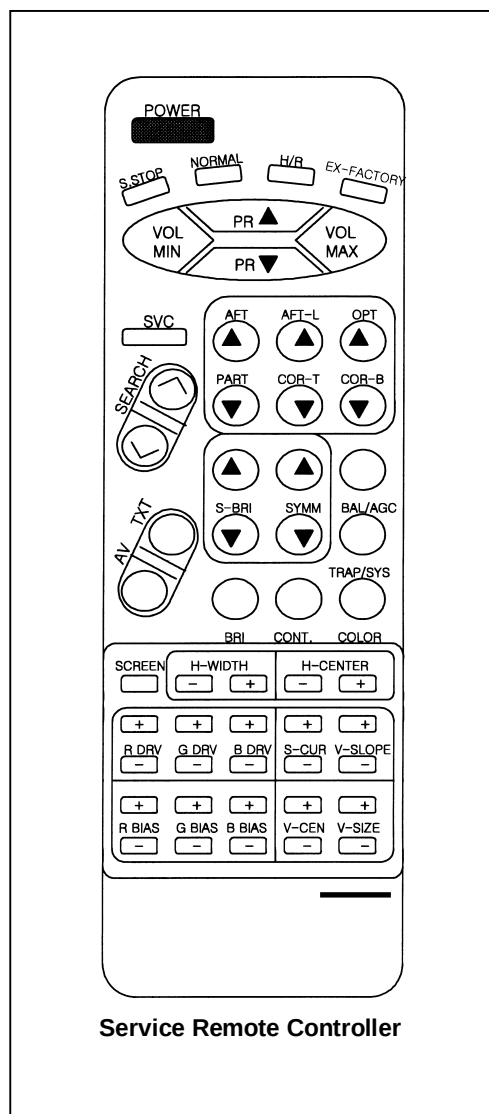
(The letters of the selected items are displayed in yellow)

Press the ◀-/▶ +KEY ..... setting the value item.

- |            |             |
|------------|-------------|
| · AGC      | · VS Cor    |
| · Black R  | · V Shift   |
| · Black G  | · H Width   |
| · WP Red   | · EW Parabo |
| · WP Green | · Up Corner |
| · WP Blue  | · Dw Corner |
| · H Parall | · EW Trapez |
| · H Bow    | · Option    |
| · H Shift  |             |
| · V Slope  |             |
| · V Amp    |             |



## FUNCTION OF SERVICE REMOTE CONTROLLER



|            |                                                                                    |
|------------|------------------------------------------------------------------------------------|
| POWER      | : Power On/Off key                                                                 |
| S STOP     | : User R/C mode change (DW→JVC→AIWA)                                               |
| NORMAL     | : NORMAL I →NORMAL II →Favorite                                                    |
| H/R        | : Fast heat-run mode in line production                                            |
| EX-FACTORY | : Not use                                                                          |
| VOL MIN    | : Volume minimum key                                                               |
| VOL MAX    | : Volume maximum key                                                               |
| PR+        | : Program up key                                                                   |
| PR-        | : Program down key                                                                 |
| SVC        | : Service mode On/Off key                                                          |
| AFT        | : AFT adjustment key                                                               |
| AFT-L      | : SECAM L AFT adjustment key                                                       |
| OPT        | : AGC adjustment key                                                               |
| PART       | : Not use                                                                          |
| COR-T      | : Not use                                                                          |
| COR-B      | : Not use                                                                          |
| SEARCH     | : Search up/down key                                                               |
| AV         | : AV mode/TV mode toggle key                                                       |
| TXT        | : Teletext On/Off key                                                              |
| S-BRI      | : Sub-brightness adjustment key                                                    |
| SYMM       | : Not use                                                                          |
| BAL / AGC  | : LED EAST Yes/No toggle key                                                       |
| BRI        | : Brightness Min/Max toggle key                                                    |
| CONT       | : Contrast Min/Max toggle key                                                      |
| COLOR      | : Color Min/Max toggle key                                                         |
| SCREEN     | : Horizontal 1 line display key for screen adjustment                              |
| H-WIDTH    | : H. width adjustment key                                                          |
| H-CENTER   | : H. center adjustment key                                                         |
| R DRV      | : R drive adjustment key for W/B high beam                                         |
| G DRV      | : G drive adjustment key for W/B high beam                                         |
| B DRV      | : B drive adjustment key for W/B high beam<br>(Do not adjust : B is the reference) |
| R BIAS     | : R bias adjustment key for W/B low beam                                           |
| G BIAS     | : G bias adjustment key for W/B low beam                                           |
| B BIAS     | : B bias adjustment key for W/B low beam<br>(Do not adjust : B is the reference)   |
| S-CUR      | : Not use                                                                          |
| V-SLOPE    | : Not use                                                                          |
| V-CEN      | : Vertical center adjustment key                                                   |
| V-SIZE     | : Vertical size adjustment key                                                     |

## ADJUSTMENTS

### SELECT OPTION ITEM

| Option | Tuner maker      | Cut off / video Amp. |
|--------|------------------|----------------------|
| 0      | DAEWOO / SAMSUNG | 140V / 92V           |
| 2      | SIEL             | 140V / 92V           |

### G2 ALIGNMENT

- 1 TV in AV mode without video signal ⇒ Black screen.
- 2 TV preset with WP Red, WP Green and WP Blue equal to 32.
- 3 TV preset with Black R, Black G equal to 8.
- 4 Set TV in NORMAL I mode.
- 5 Adjust screen volume (on FBT) such that the highest cathode cut-off voltage measured on CRT board, is Vcut off  $\pm 5V$ .

| Screen size | Vcut-off |
|-------------|----------|
| 21"         | 125V     |

### WHITE BALANCE

- NOTE**
- When the WHITE BALANCE adjustments are carried out, it is necessary to use the service remocon.
  - Confirm G2 Alignment has been adjusted.

#### ■ Low Light

- 1 Press the TV / AV button on the front of the TV unit and enter the VIDEO MODE.
- 2 Input a crosshatch pattern signal.
- 3 Press the SVC key to display the SVC screen as shown in Fig.1.
- 4 Press the SCREEN key to display the single horizontal line.
- 5 Check the color of the single horizontal line being displayed.
- 6 Press the SCREEN key to disappear the single horizontal line.
- 7 Adjust the bias values of R, G and B with their respective +/- keys so that the single horizontal line on the screen becomes "white" .
- 8 While pressing the SCREEN key, check the color of the single horizontal line on the screen.
- 9 Repeat the steps 5 ~ 8 above until the single horizontal line on the screen becomes "white" .

## ■ High Light

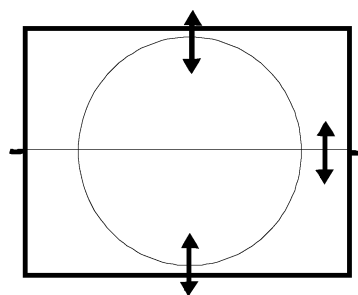
- ⑩ Press the SCREEN key to display the single horizontal line.
- ⑪ In the same manner as for “Low Light”, adjust R DRIVE and G DRIVE with their respective +/- keys.
- ⑫ When the adjustment has been completed, press the SVC button to exit from the ADJ' MENT MODE.

## FOCUS

- 1 Input a crosshatch pattern signal
- 2 Adjust the FOCUS volume (on FBT) to have the best resolution on screen.

## VERTICAL GEOMETRY

Adjust the V Amp, V Shift, VSC or and V slope to compensate for vertical distortion.

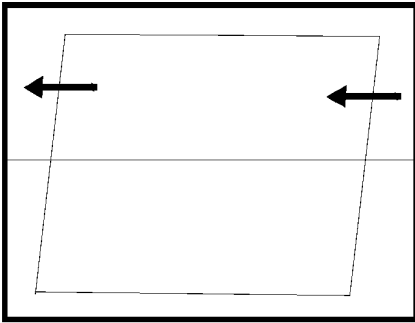


## HORIZONTAL PICTURE CENTERING

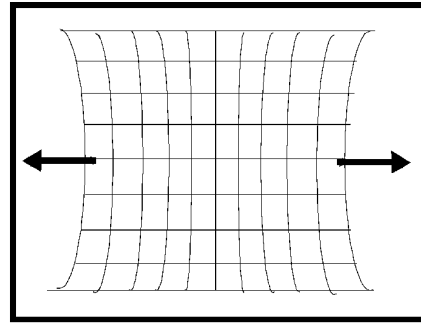
Adjust H Shift, to have the picture in the center of the screen.

## EAST / WEST CORRECTION

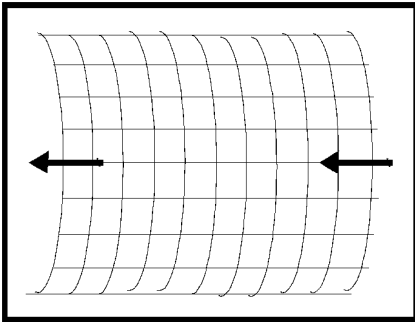
Adjust the H. Parall, H. Bow, H. Width, EW. Parabo, Up corner, Dw Corner, EW Trapez to compensate for geometrical distortion.



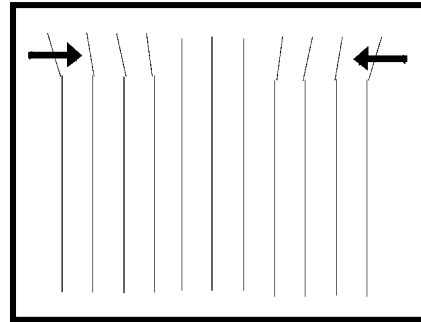
H. Parall



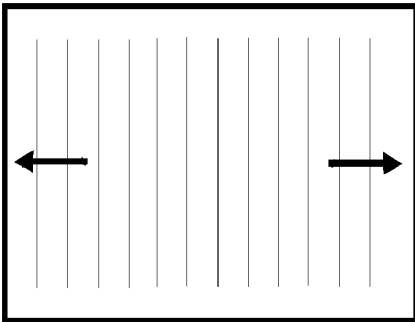
EW.Parabo



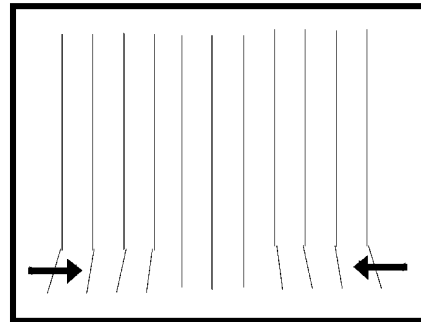
H. Bow



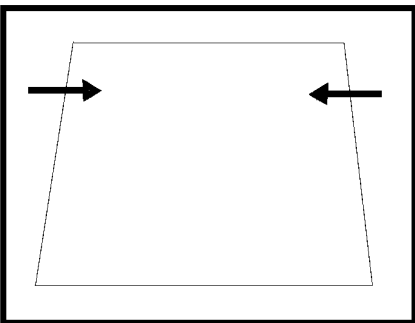
Up Corner



H.Width



Dw Corner



EW Trapez

# PARTS LIST

## CAUTION

- The parts identified by the  $\triangle$  symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied .

## ABBREVIATIONS OF RESISTORS, TRANSISTOR, CAPACITORS AND TOLERANCES

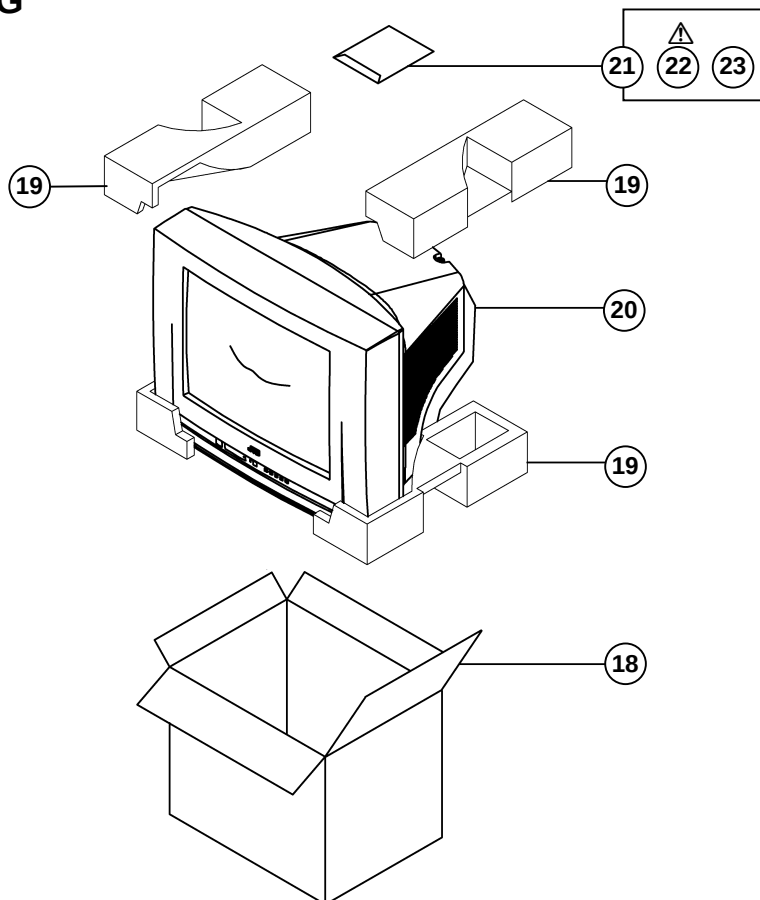
| RESISTORS |                   | CAPACITORS |                        |
|-----------|-------------------|------------|------------------------|
| C R       | Carbon Resistor   | CERA C     | Ceramic Capacitor      |
| V R       | Variable Resistor | ELECTRO C  | Electrolytic Capacitor |
| TR        | Transistor        | MYLAR C    | Mylar Capacitor        |

| TOLERANCES |           |           |            |            |            |              |              |              |             |
|------------|-----------|-----------|------------|------------|------------|--------------|--------------|--------------|-------------|
| F          | G         | J         | K          | M          | N          | R            | H            | Z            | P           |
| $\pm 1\%$  | $\pm 2\%$ | $\pm 5\%$ | $\pm 10\%$ | $\pm 20\%$ | $\pm 30\%$ | +30%<br>-10% | +50%<br>-10% | +80%<br>-20% | +100%<br>0% |

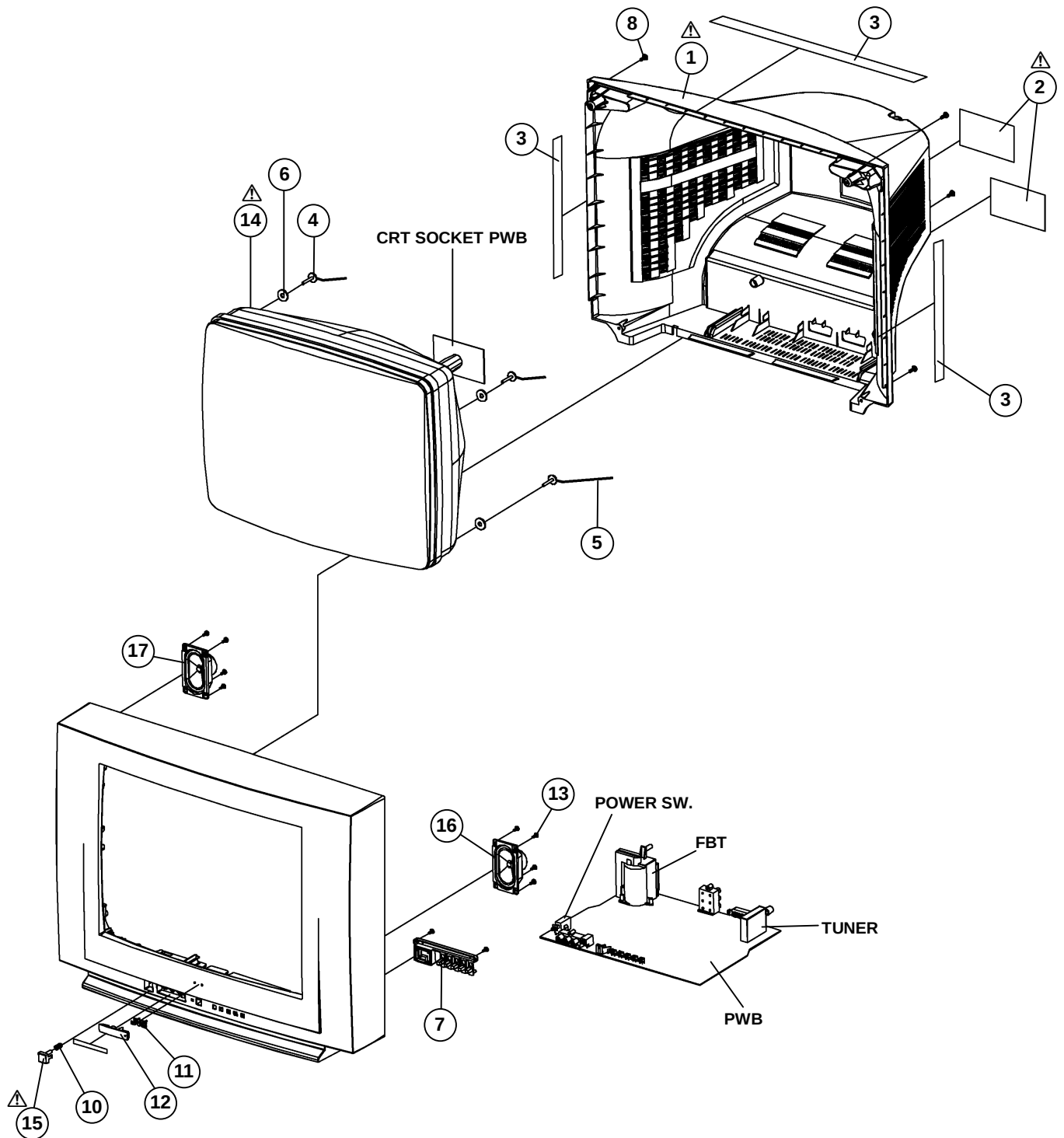
## ■ PACKING & EXPLODED VIEW PARTS LIST

| △ | Ref. | Symbol No. | Part No.   | Part Name           | Description                 |
|---|------|------------|------------|---------------------|-----------------------------|
| △ | 1    | M211       | 4852157801 | COVER BACK          | HIPS BK                     |
| △ | 2    | M541       | 4855415800 | SPEC PLATE          | 150ART P/E FILM (C/TV)      |
|   | 3    | M781       | 4857817612 | CLOTH BLACK         | FELT 250X20X0.7             |
|   | 4    | CRT1A      | 4856013300 | SCREW CRT FIXING    | 30X80 BK                    |
|   | 5    | CRT1C      | 4856013303 | SCREW CRT FIXING    | 30X250 YL                   |
|   | 7    | M191       | 4851941501 | BUTTON CTRL         | 4947801+5542600             |
|   | 8    | M211A      | 7172401412 | SCREW TAPPTITE      | TT2 TRS 4X14 MFZN BK        |
|   | 9    | M481       | 4854858301 | BUTTON POWER        | ABS BK                      |
|   | 10   | M481A      | 4856715600 | SPRING              | SWPA PIE 0.4                |
|   | 11   | M561       | 4855622500 | MARK BRAND          | AL DIA-CUT GOLD             |
|   | 12   | M751       | 4857538201 | COVER JACK          | HIPS BK                     |
|   | 13   | SP01B      | 7178301011 | SCREW TAPPTITE      | TT2 WAS 3X10 MFZN           |
|   | 13   | SP02A      | 7178301011 | SCREW TAPPTITE      | TT2 WAS 3X10 MFZN           |
| △ | 14   | V901       | 4859629361 | CRT(ITC)            | A51EFS83X191                |
| △ | 15   | M201       | 4852076001 | MASK FRONT          | HIPS BK                     |
|   | 16   | SP01       | 4858310910 | SPEAKER             | 7.5W 8 OHM 95BF03LC         |
|   | 17   | SP02       | 4858310910 | SPEAKER             | 7.5W 8 OHM 95BF03LC         |
|   | 18   | M801       | 4858058500 | BOX CARTON          | DW-3                        |
|   | 19   | M811       | 4858195500 | PAD                 | EPS                         |
|   | 20   | M821       | 4858211800 | BAG P. E            | L. D. P. E TO. 03X1300X1000 |
|   | 21   | M822       | 4858213800 | BAG INSTRUCTION     | L. D. P. E TO. 05X250X400   |
| △ | 22   | 10000      | 48586054K1 | MANUAL INSTRUCTION  | DTM-2082CW                  |
|   | 23   | ZZ100      | 48B00RMC71 | TRANSMITTER REMOCON | RM-C71 (AAA)                |
| △ |      | ZZ131      | 58G0000147 | COIL DEGAUSSING     | DC-21SF                     |

## ■ PACKING



## EXPLODED VIEW



## ELECTRICAL PARTS LIST

| △ Symbol No. | Part No.   | Part Name   | Description               |
|--------------|------------|-------------|---------------------------|
| C101         | CEXF1H100V | C ELECTRO   | 50V RSS 10MF (5X11) TP    |
| C102         | CEXF1H470V | C ELECTRO   | 50V RSS 47MF (6.3X11) TP  |
| C103         | CCZB1H102K | C CERA      | 50V B 1000PF K (AXIAL)    |
| C104         | CCXB1H102K | C CERA      | 50V B 1000PF K (TAPPING)  |
| C106         | CEXF1E221V | C ELECTRO   | 25V RSS 220MF (8X11.5) TP |
| C108         | CCZB1H101K | C CERA      | 50V B 100PF K (AXIAL)     |
| C110         | CCZB1H102K | C CERA      | 50V B 1000PF K (AXIAL)    |
| C120         | CCXB1H102K | C CERA      | 50V B 1000PF K (TAPPING)  |
| C121         | CEXF1H100V | C ELECTRO   | 50V RSS 10MF (5X11) TP    |
| C305         | CEXF1E221V | C ELECTRO   | 25V RSS 220MF (8X11.5) TP |
| C313         | CMXM2A104J | C MYLAR     | 100V 0.1MF J TP           |
| C315         | CEXF2C470C | C ELECTRO   | 160V RUS 47MF (13X25) TP  |
| C320         | CBXF1H104Z | C CERA SEMI | 50V F 0.1MF Z (TAPPING)   |
| C350         | CCXF1H473Z | C CERA      | 50V F 0.047MF Z (TAPPING) |
| C351         | CCXF1H473Z | C CERA      | 50V F 0.047MF Z (TAPPING) |
| C390         | CMXM2A473J | C MYLAR     | 100V 0.047MF J TP         |
| C401         | CEXF1H470V | C ELECTRO   | 50V RSS 47MF (6.3X11) TP  |
| C404         | CMYH3C752J | C MYLAR     | 1.6KV BUP 7500PF J        |
| C408         | CMYE2E364J | C MYLAR     | 250V PU 0.36MF J          |
| C412         | CEXF2C339V | C ELECTRO   | 160V RSS 3.3MF (8X16) TP  |
| C414         | CMXM2A104J | C MYLAR     | 100V 0.1MF J (TP)         |
| C415         | CEXF2E479V | C ELECTRO   | 250V RSS 4.7MF (10X16) TP |
| C417         | CMXL2E104K | C MYLAR     | 250V MEU 0.1MF K          |
| C418         | CCXB1H102K | C CERA      | 50V B 1000PF K (TAPPING)  |
| C420         | CCXB2H222K | C CERA      | 500V B 2200PF K (TAPPING) |
| C500         | CEXF1H478V | C ELECTRO   | 50V RSS 0.47MF (5X11) TP  |
| C501         | CEXF1H100V | C ELECTRO   | 50V RSS 10MF (5X11) TP    |
| C509         | CXCH1H270J | C CERA      | 50V CH 27PF J (TAPPING)   |
| C511         | CMXB1H224J | C MYLAR     | 50V EU 0.22MF J (TP)      |
| C512         | CMXB1H224J | C MYLAR     | 50V EU 0.22MF J (TP)      |
| C513         | CBXF1H104Z | C CERA SEMI | 50V F 0.1MF Z (TAPPING)   |
| C514         | CEXF1E101V | C ELECTRO   | 25V RSS 100MF (6.3X11) TP |
| C515         | CBZR1C222M | C CERA      | 16V Y5R 2200PF M (AXIAL)  |
| C516         | CBZR1C472M | C CERA      | 16V Y5R 4700PF M (AXIAL)  |
| C517         | CEXF1H109V | C ELECTRO   | 50V RSS 1MF (5X11) TP     |
| C518         | CBZF1H104Z | C CERA SEMI | 50V F 0.1MF Z             |
| C519         | CEXF1H109V | C ELECTRO   | 50V RSS 1MF (5X11) TP     |
| C520         | CCZB1H102K | C CERA      | 50V B 1000PF K (AXIAL)    |
| C521         | CCZB1H102K | C CERA      | 50V B 1000PF K (AXIAL)    |
| C522         | CEXF1H479V | C ELECTRO   | 50V RSS 4.7MF (5X11) TP   |
| C523         | CBZF1H104Z | C CERA SEMI | 50V F 0.1MF Z             |
| C524         | CMXB1H104J | C MYLAR     | 50V EU 0.1MF J (TP)       |
| C525         | CCXB1H102K | C CERA      | 50V B 1000PF K (TAPPING)  |
| C526         | CMXB1H104J | C MYLAR     | 50V EU 0.1MF J (TP)       |
| C527         | CMXB2A473J | C MYLAR     | 100V EU 0.047MF J (TP)    |
| C528         | CEXF1E101V | C ELECTRO   | 25V RSS 100MF (6.3X11) TP |
| C529         | CBZF1H104Z | C CERA SEMI | 50V F 0.1MF Z             |
| C530         | CEXF1E101V | C ELECTRO   | 25V RSS 100MF (6.3X11) TP |
| C531         | CCXF1H473Z | C CERA      | 50V F 0.047MF Z (TAPPING) |
| C532         | CEXF1H100V | C ELECTRO   | 50V RSS 10MF (5X11) TP    |
| C533         | CCZB1H102K | C CERA      | 50V B 1000PF K (AXIAL)    |
| C534         | CCZF1H223Z | C CERA      | 50V F 0.022MF Z           |
| C535         | CCZF1H223Z | C CERA      | 50V F 0.022MF Z           |
| C536         | CCZF1H223Z | C CERA      | 50V F 0.022MF Z           |
| C537         | CBXF1H104Z | C CERA SEMI | 50V F 0.1MF Z (TAPPING)   |
| C540         | CEXF1H220V | C ELECTRO   | 50V RSS 22MF (5X11) TP    |
| C541         | CEXF1H220V | C ELECTRO   | 50V RSS 22MF (5X11) TP    |
| C542         | CEXF1H100V | C ELECTRO   | 50V RSS 10MF (5X11) TP    |
| C543         | CEXF1H100V | C ELECTRO   | 50V RSS 10MF (5X11) TP    |
| C550         | CEXF1H229V | C ELECTRO   | 50V RSS 2.2MF (5X11) TP   |

| △ Symbol No. | Part No.   | Part Name     | Description               |
|--------------|------------|---------------|---------------------------|
| C555         | CEXF1C470V | C ELECTRO     | 16V RSS 47MF (5X11) TP    |
| C560         | CBXF1H104Z | C CERA SEMI   | 50V F 0.1MF Z (TAPPING)   |
| C561         | CEXF1E101V | C ELECTRO     | 25V RSS 100MF (6.3X11) TP |
| C564         | CEXF1E101V | C ELECTRO     | 25V RSS 100MF (6.3X11) TP |
| C565         | CBXF1H104Z | C CERA SEMI   | 50V F 0.1MF Z (TAPPING)   |
| C577         | CGZB1H561K | C CERA        | 50V B 560PF K             |
| C585         | CCXB1H222K | C CERA        | 50V B 2200PF K (TAPPING)  |
| C587         | CGZB1H101K | C CERA        | 50V B 100PF K (AXIAL)     |
| C588         | CGZB1H101K | C CERA        | 50V B 100PF K (AXIAL)     |
| C589         | CGZB1H101K | C CERA        | 50V B 100PF K (AXIAL)     |
| C590         | CXCH1H270J | C CERA        | 50V CH 27PF J (TAPPING)   |
| C591         | CXCH1H270J | C CERA        | 50V CH 27PF J (TAPPING)   |
| C592         | CBXF1H104Z | C CERA SEMI   | 50V F 0.1MF Z (TAPPING)   |
| C593         | CEXF1E101V | C ELECTRO     | 25V RSS 100MF (6.3X11) TP |
| C601         | CCXB1H472K | C CERA        | 50V B 4700PF K (TAPPING)  |
| C602         | CEXF1H100V | C ELECTRO     | 50V RSS 10MF (5X11) TP    |
| C603         | CCXB1H472K | C CERA        | 50V B 4700PF K (TAPPING)  |
| C604         | CEXF1E102V | C ELECTRO     | 25V RSS 1000MF (13X20) TP |
| C605         | CEXF1E470V | C ELECTRO     | 25V RSS 47MF (5X11) TP    |
| C608         | CEXF1H100V | C ELECTRO     | 50V RSS 10MF (5X11) TP    |
| C610         | CEXF1H100V | C ELECTRO     | 50V RSS 10MF (5X11) TP    |
| C611         | CEXF1H339V | C ELECTRO     | 50V RSS 3.3MF (5X11) TP   |
| C612         | CEXF1H109V | C ELECTRO     | 50V RSS 1MF (5X11) TP     |
| C613         | CEXF1H109V | C ELECTRO     | 50V RSS 1MF (5X11) TP     |
| C614         | CEXF1H109V | C ELECTRO     | 50V RSS 1MF (5X11) TP     |
| C615         | CEXF1H109V | C ELECTRO     | 50V RSS 1MF (5X11) TP     |
| C616         | CEXF1H100V | C ELECTRO     | 50V RSS 10MF (5X11) TP    |
| C617         | CBXF1H104Z | C CERA SEMI   | 50V F 0.1MF Z (TAPPING)   |
| C620         | CXCH1H509D | C CERA        | 50V CH 5PF D (TAPPING)    |
| C621         | CXCH1H509D | C CERA        | 50V CH 5PF D (TAPPING)    |
| C622         | CCXF1H223Z | C CERA        | 50V F 0.022MF Z (TAPPING) |
| C625         | CEXF1H479V | C ELECTRO     | 50V RSS 4.7MF (5X11) TP   |
| C626         | CEXF1H479V | C ELECTRO     | 50V RSS 4.7MF (5X11) TP   |
| C629         | CBXF1H104Z | C CERA SEMI   | 50V F 0.1MF Z (TAPPING)   |
| C630         | CEXF1E470V | C ELECTRO     | 25V RSS 47MF (5X11) TP    |
| C631         | CBXF1H104Z | C CERA SEMI   | 50V F 0.1MF Z (TAPPING)   |
| C635         | CBXF1H104Z | C CERA SEMI   | 50V F 0.1MF Z (TAPPING)   |
| C636         | CEXF1C470C | C ELECTRO     | 16V RSS 47MF (5X11) TP    |
| C650         | CXCH1H470J | C CERA        | 50V CH 47PF J (TAPPING)   |
| C660         | CEXF1H100V | C ELECTRO     | 50V RSS 10MF (5X11) TP    |
| C661         | CMXB1H224J | C MYLAR       | 50V EU 0.22MF J (TP)      |
| C662         | CMXB1H224J | C MYLAR       | 50V EU 0.22MF J (TP)      |
| C665         | CCXB1H472K | C CERA        | 50V B 4700PF K (TAPPING)  |
| C666         | CBXF1H104Z | C CERA SEMI   | 50V F 0.1MF Z (TAPPING)   |
| C667         | CCXB1H472K | C CERA        | 50V B 4700PF K (TAPPING)  |
| C668         | CMXB1H224J | C MYLAR       | 50V EU 0.22MF J (TP)      |
| C669         | CMXB1H224J | C MYLAR       | 50V EU 0.22MF J (TP)      |
| C690         | CEXF1H479V | C ELECTRO     | 50V RSS 4.7MF (5X11) TP   |
| C691         | CEXF1H479V | C ELECTRO     | 50V RSS 4.7MF (5X11) TP   |
| C698         | CXCH1H470J | C CERA        | 50V CH 47PF J (TAPPING)   |
| C699         | CXCH1H470J | C CERA        | 50V CH 47PF J (TAPPING)   |
| C770         | CEXF1E101V | C ELECTRO     | 25V RSS 100MF (6.3X11) TP |
| C771         | CBZF1H104Z | C CERA SEMI   | 50V F 0.1MF Z             |
| △ C801       | CL1SC3474M | C LINE ACROSS | 275V 0.47MF               |
| C803         | CCXF3A472Z | C CERA        | 1KV F 4700PF Z (T)        |
| C804         | CCXF3A472Z | C CERA        | 1KV F 4700PF Z (T)        |
| C805         | CEYN2G101P | C ELECTRO     | 400V LHS 100MF (22X30)    |
| C806         | CEXF1H330V | C ELECTRO     | 50V RSS 33MF (6.3X11) TP  |
| C807         | CCXF1H473Z | C CERA        | 50V F 0.047MF Z (TAPPING) |
| C808         | CEXF1H479V | C ELECTRO     | 50V RSS 4.7MF (5X11) TP   |
| C809         | CGZB1H101K | C CERA        | 50V B 100PF K (AXIAL)     |
| C810         | CBXB3D102K | C CERA SEMI   | 2KV BL(N) 1000PF K (T)    |
| △ C812       | CH1AFE472M | C CERA AC     | 4KV 4700PF M KX DE1610    |

| △ Symbol No. | Part No.    | Part Name   | Description               |
|--------------|-------------|-------------|---------------------------|
| C813         | CExF2C101V  | C ELECTRO   | 160V RSS 100MF (16X25) TP |
| C814         | CExF2C101V  | C ELECTRO   | 160V RSS 100MF (16X25) TP |
| C820         | CCYR3A471K  | C CERA      | 1KV R 470PF K 125 DE0705  |
| C821         | CCXB1H102K  | C CERA      | 50V B 1000PF K (TAPPING)  |
| C823         | CExF1E102V  | C ELECTRO   | 25V RSS 1000MF (13X20) TP |
| C824         | CCYR3A471K  | C CERA      | 1KV R 470PF K 125 DE0705  |
| C830         | CBZF1H104Z  | C CERA SEMI | 50V F 0.1MF Z             |
| C831         | CCYR3A471K  | C CERA      | 1KV R 470PF K 125 DE0705  |
| C832         | CExF1E102V  | C ELECTRO   | 25V RSS 1000MF (13X20) TP |
| C835         | CExF1H470V  | C ELECTRO   | 50V RSS 47MF (6.3X11) TP  |
| C840         | CExF1C222V  | C ELECTRO   | 16V RSS 2200MF (13X25) TP |
| C841         | CExF1C222V  | C ELECTRO   | 16V RSS 2200MF (13X25) TP |
| C844         | CExF1E101V  | C ELECTRO   | 25V RSS 100MF (6.3X11) TP |
| C850         | CCZB1H821K  | C CERA      | 50V B 820PF K AXIAL       |
| C861         | CExF1E102V  | C ELECTRO   | 25V RSS 1000MF (13X20) TP |
| C863         | CExF1E101V  | C ELECTRO   | 25V RSS 100MF (6.3X11) TP |
| C866         | CCYR3A471K  | C CERA      | 1KV R 470PF K 125 DE0705  |
| C888         | CExF1C470V  | C ELECTRO   | 16V RSS 47MF (5X11) TP    |
| C905         | CExF2E479V  | C ELECTRO   | 250V RSS 4.7MF (10X16) TP |
| C910         | CCXB1H152K  | C CERA      | 50V B 1500PF K (TAPPING)  |
| C965         | CBXB3D102K  | C CERA SEMI | 2KV BL(N) 1000PF K (T)    |
| C968         | CMXL2E104K  | C MYLAR     | 250V MEU 0.1MF K          |
| CA01         | CCZB1H101K  | C CERA      | 50V B 100PF K (AXIAL)     |
| CA02         | CCZB1H101K  | C CERA      | 50V B 100PF K (AXIAL)     |
| CA03         | CCZB1H101K  | C CERA      | 50V B 100PF K (AXIAL)     |
| CA10         | CCXB1H102K  | C CERA      | 50V B 1000PF K (TAPPING)  |
| D100         | DSML1216W-  | LED         | SML1216W                  |
| D101         | DBAT85----  | DIODE       | BAT85                     |
| D102         | D1SS85TA--  | DIODE       | 1SS85TA                   |
| D313         | DBAV21----  | DIODE       | BAV21                     |
| D350         | DUZ12BM---  | DIODE ZENER | UZ-12BM (UNIZON)          |
| D360         | DTZX22C---  | DIODE ZENER | TZX22C (TAPPING)          |
| D361         | DUZ33B----  | DIODE ZENER | UZ-33B                    |
| D403         | DBY228----  | DIODE       | BY228 (TAPPING)           |
| D405         | DBYW36----  | DIODE       | BYW36                     |
| D407         | DBYW36----  | DIODE       | BYW36                     |
| D408         | DBYW36----  | DIODE       | BYW36                     |
| D450         | DBYW36----  | DIODE       | BYW36                     |
| D501         | DUZ3R9B---  | DIODE ZENER | UZ-3.9B                   |
| D502         | DUZ3R9B---  | DIODE ZENER | UZ-3.9B                   |
| D520         | D1N4148---  | DIODE       | 1N4148 (TAPPING)          |
| D521         | D1N4148---  | DIODE       | 1N4148 (TAPPING)          |
| D591         | DUZ2R4B---  | DIODE ZENER | UZ-2.4B                   |
| D710         | DUZ5R1B---  | DIODE ZENER | UZ-5.1B UNIZON            |
| △ D801       | DBYT51J---  | DIODE       | BYT51J (TP)               |
| △ D802       | DBYT51J---  | DIODE       | BYT51J (TP)               |
| △ D803       | DBYT51J---  | DIODE       | BYT51J (TP)               |
| △ D804       | DBYT51J---  | DIODE       | BYT51J (TP)               |
| D805         | DBYW36----  | DIODE       | BYW36                     |
| D806         | DBYW36----  | DIODE       | BYW36                     |
| D808         | DBYW36----  | DIODE       | BYW36                     |
| D809         | DBYW36----  | DIODE       | BYW36                     |
| D810         | DBYW36----  | DIODE       | BYW36                     |
| D811         | DUZ5R6BM--- | DIODE ZENER | UZ-5.6BM (TAPPING)        |
| D820         | DBYW95C---  | DIODE       | BYW95C (TAPPING)          |
| D821         | DBYW36----  | DIODE       | BYW36                     |
| D822         | DUZ9R1BM--- | DIODE ZENER | UZ-9.1BM 9.1V             |
| D824         | D1N4148---  | DIODE       | 1N4148 (TAPPING)          |
| D825         | D1N4148---  | DIODE       | 1N4148 (TAPPING)          |
| D830         | DBYW36----  | DIODE       | BYW36                     |
| D831         | DBYW36----  | DIODE       | BYW36                     |
| D840         | D1N4148---  | DIODE       | 1N4148 (TAPPING)          |

| △ Symbol No. | Part No.   | Part Name         | Description             |
|--------------|------------|-------------------|-------------------------|
| D841         | D1N4148--- | DIODE             | 1N4148 (TAPPING)        |
| D860         | DBYW76---  | DIODE             | BYW76                   |
| D904         | DBAV21---- | DIODE             | BAV21                   |
| D905         | DBAV21---- | DIODE             | BAV21                   |
| D906         | DBAV21---- | DIODE             | BAV21                   |
| DA01         | D1N4148--- | DIODE             | 1N4148 (TAPPING)        |
| DA02         | DUZ5R6BM-- | DIODE ZENER       | UZ-5. 6BM (TAPPING)     |
| DA03         | DUZ5R1B--- | DIODE ZENER       | UZ-5. 1B UNIZON         |
| DA04         | DUZ5R6BM-- | DIODE ZENER       | UZ-5. 6BM (TAPPING)     |
| DA06         | DUZ5R6BM-- | DIODE ZENER       | UZ-5. 6BM (TAPPING)     |
| DA08         | DUZ5R6BM-- | DIODE ZENER       | UZ-5. 6BM (TAPPING)     |
| DA09         | DUZ5R6BM-- | DIODE ZENER       | UZ-5. 6BM (TAPPING)     |
| DA10         | DUZ5R6BM-- | DIODE ZENER       | UZ-5. 6BM (TAPPING)     |
| DA11         | DUZ5R6BM-- | DIODE ZENER       | UZ-5. 6BM (TAPPING)     |
| DA13         | CBZR1C222M | C CERA            | Y5R 16V 2200PF M AXIAL  |
| DA14         | CBZR1C222M | C CERA            | Y5R 16V 2200PF M AXIAL  |
| DA15         | DUZ5R6BM-- | DIODE ZENER       | UZ-5. 6BM (TAPPING)     |
| DA16         | DTZX5V6B-- | DIODE ZENER       | TZX5V6B (TAPPING)       |
| DA20         | DTZX5V6B-- | DIODE ZENER       | TZX5V6B (TAPPING)       |
| DA23         | CBZR1C222M | C CERA            | Y5R 16V 2200PF M AXIAL  |
| DA24         | CBZR1C222M | C CERA            | Y5R 16V 2200PF M AXIAL  |
| DA27         | DUZ5R6BM-- | DIODE ZENER       | UZ-5. 6BM (TAPPING)     |
| △ F801       | 5FSCB4022R | FUSE CERA         | SEMKO F4AH 4A 250V MF51 |
| F801A        | 4857415001 | CLIP FUSE         | PFC5000-0702            |
| F801B        | 4857415001 | CLIP FUSE         | PFC5000-0702            |
| G900         | 4SG0D00103 | SPARK GAP         | S-23 900V-1.5KV         |
| HP1          | 4859102130 | JACK EARPHONE     | YSC-1537                |
| I301         | PTC2SW4421 | HEAT SINK ASS`Y   | 1TDA8357J- + 7174301011 |
| I301         | 1TDA8357J- | IC VERTICAL       | TDA8357J                |
| I301A        | 4857024421 | HEAT SINK         | AL EX                   |
| I301B        | 7174301011 | SCREW TAPPTITE    | TT2 RND 3X10 MFZN       |
| I501         | 1DW3673AE3 | IC MICOM          | DW9367/N1/3-AE3         |
| I601         | 1MSP3415D- | IC AUDIO          | MSP3415D                |
| I602         | PTD2SW4421 | HEAT SINK ASS`Y   | 1TDA8944J- + 7174301011 |
| I602         | 1TDA8944J- | IC VERTICAL       | TDA8944J                |
| I602A        | 4857024421 | HEAT SINK         | AL EX                   |
| I602B        | 7174301011 | SCREW TAPPTITE    | TT2 RND 3X10 MFZN       |
| I702         | 1AT24C08PC | IC                | AT24C08-10PC            |
| I703         | 1TSOP1238W | IC PREAMP         | TSOP1238W11             |
| I801         | PTK2SW4610 | HEAT SINK ASS`Y   | 1STRF6653- + 7174300811 |
| I801         | 1STRF6653- | IC SMPS           | STR-F6653               |
| I801A        | 4857024610 | HEAT SINK         | AL EX                   |
| △ I801B      | 7174300811 | SCREW TAPPTITE    | TT2 RND 3X8 MFZN        |
| I804         | 1LTV817C-- | IC PHOTO COUPLER  | LTV-817C                |
| I805         | 1UPC574J-- | IC                | UPC574J                 |
| I806         | 1SE110N--- | IC REGULATOR      | SE110N                  |
| I810         | TX0202DA-- | THYRISTOR         | X0202DA1BA2             |
| I820         | 1K1A7805P1 | IC REGULATOR      | K1A7805API              |
| I822         | 1K1A7808P1 | IC REGULATOR      | K1A7808API              |
| I823         | 1LE33CZ--- | IC REGULATOR      | LE33CZ                  |
| I901         | PTC3SW1100 | HEAT SINK ASS`Y   | 1TDA6107Q- + 7174301011 |
| I901         | 1TDA6107Q- | IC VIDEO          | TDA6107Q                |
| I901A        | 4857031100 | HEAT SINK         | A1050P-H24 T2.0         |
| I901B        | 7174301011 | SCREW TAPPTITE    | TT2 RND 3X10 MFZN       |
| JPA1         | 4859200401 | SOCKET RGB        | YRS21-R1                |
| JPA2         | 4859200401 | SOCKET RGB        | YRS21-R1                |
| JPA3         | 4859108450 | JACK PIN BOARD    | YSC03P-4120-14A         |
| △ L101       | 5CPZ100K02 | COIL PEAKING      | 10UH K (AXIAL 3.5MM)    |
| L401         | 58H0000020 | COIL H-L INEARITY | L-76 (76.5UH)           |
| L500         | 5CPZ120K02 | COIL PEAKING      | 12UH K (AXIAL 3.5MM)    |
| L501         | 5CPZ100K02 | COIL PEAKING      | 10UH K (AXIAL 3.5MM)    |
| L502         | 5CPZ100K02 | COIL PEAKING      | 10UH K (AXIAL 3.5MM)    |

| △ Symbol No. | Part No.   | Part Name        | Description            |
|--------------|------------|------------------|------------------------|
| L510         | 5CPZ100K02 | COIL PEAKING     | 10UH K (AXIAL 3.5MM)   |
| L511         | 5CPZ100K02 | COIL PEAKING     | 10UH K (AXIAL 3.5MM)   |
| L512         | 5CPZ100K02 | COIL PEAKING     | 10UH K (AXIAL 3.5MM)   |
| L601         | 5CPZ479K02 | COIL PEAKING     | 4.7UH K (AXIAL 3.5MM)  |
| L602         | 5CPZ479K02 | COIL PEAKING     | 4.7UH K (AXIAL 3.5MM)  |
| L603         | 5CPZ479K02 | COIL PEAKING     | 4.7UH K (AXIAL 3.5MM)  |
| L650         | 5MC0000100 | COIL BEAD        | HC-3550                |
| L801         | 5MC0000100 | COIL BEAD        | HC-3550                |
| L802         | 58C9430599 | COIL CHOKE       | AZ-9004Y (94MH)        |
| L803         | 5MC0000100 | COIL BEAD        | HC-3550                |
| △ LF801      | 5PLF24A1-- | FILTER LINE      | LF-24A1                |
| M351         | 4853533600 | HOLDER LED       | P. P BK                |
| P401         | 4850705N14 | CONNECTOR        | BIC-05T-25T+ULW=500    |
| △ PW000      | 4859906111 | CORD POWER       | M5206+H03VVH2-F=2250   |
| PWC1         | PTWCSW7410 | CORD POWER ASS`Y | 4859906111             |
| Q101         | TKTC3198Y- | TR               | KTC3198Y               |
| Q103         | TKTC3202Y- | TR               | KTC3202Y (TP)          |
| △ Q401       | T2SD2499-- | TR               | 2SD2499                |
| Q402         | T2SD1207T- | TR               | 2SD1207-T (TAPPING)    |
| Q501         | TKTA1266Y- | TR               | KTA1266Y (TP)          |
| Q502         | TKTC3198Y- | TR               | KTC3198Y               |
| Q503         | TKTC3198Y- | TR               | KTC3198Y               |
| Q504         | TKTC3198Y- | TR               | KTC3198Y               |
| Q505         | TKTC3198Y- | TR               | KTC3198Y               |
| Q507         | TKTA1266Y- | TR               | KTA1266Y (TP)          |
| Q508         | TKTC3198Y- | TR               | KTC3198Y               |
| Q509         | TKTA1266Y- | TR               | KTA1266Y (TP)          |
| Q510         | TKTA1266Y- | TR               | KTA1266Y (TP)          |
| Q511         | TKTA1266Y- | TR               | KTA1266Y (TP)          |
| Q700         | TKTC3198Y- | TR               | KTC3198Y               |
| Q807         | TKTC3198Y- | TR               | KTC3198Y               |
| Q808         | TKTC3198Y- | TR               | KTC3198Y               |
| Q809         | TKTC3198Y- | TR               | KTC3198Y               |
| Q810         | TKTC3198Y- | TR               | KTC3198Y               |
| Q811         | TKTC3198Y- | TR               | KTC3198Y               |
| R101         | RD-AZ473J- | R CARBON FILM    | 1/6 47K OHM J          |
| R102         | RD-AZ472J- | R CARBON FILM    | 1/6 4.7K OHM J         |
| R103         | RD-AZ123J- | R CARBON FILM    | 1/6 12K OHM J          |
| R104         | RD-AZ104J- | R CARBON FILM    | 1/6 100K OHM J         |
| R105         | RD-AZ392J- | R CARBON FILM    | 1/6 3.9K OHM J         |
| R106         | RD-AZ101J- | R CARBON FILM    | 1/6 100 OHM J          |
| R107         | RD-AZ101J- | R CARBON FILM    | 1/6 100 OHM J          |
| R113         | RD-AZ562J- | R CARBON FILM    | 1/6 5.6K OHM J         |
| R114         | RD-AZ562J- | R CARBON FILM    | 1/6 5.6K OHM J         |
| R115         | RD-AZ682J- | R CARBON FILM    | 1/6 6.8K OHM J         |
| R116         | RD-AZ222J- | R CARBON FILM    | 1/6 2.2K OHM J         |
| R117         | RD-AZ222J- | R CARBON FILM    | 1/6 2.2K OHM J         |
| R120         | RD-AZ101J- | R CARBON FILM    | 1/6 100 OHM J          |
| R302         | RD-2Z159J- | R CARBON FILM    | 1/2 1.5 OHM J          |
| R305         | RS02Z331JS | R M-OXIDE FILM   | 2W 330 OHM J SMALL     |
| R310         | RD-AZ102J- | R CARBON FILM    | 1/6 1K OHM J           |
| R311         | RD-AZ102J- | R CARBON FILM    | 1/6 1K OHM J           |
| R340         | RD-4Z473J- | R CARBON FILM    | 1/4 47K OHM J          |
| R350         | RN-4Z2001F | R METAL FILM     | 1/4 2.0K OHM F         |
| R351         | RN-4Z2001F | R METAL FILM     | 1/4 2.0K OHM F         |
| R355         | RD-AZ272J- | R CARBON FILM    | 1/6 2.7K OHM J         |
| R356         | RD-4Z562J- | R CARBON FILM    | 1/4 5.6K OHM J         |
| R360         | RD-4Z564J- | R CARBON FILM    | 1/4 560K OHM J         |
| R380         | 5CPZ109M04 | COIL PEAKING     | 1UH 10.5MM M (LAL04TB) |
| R390         | RD-4Z479J- | R CARBON FILM    | 1/4 4.7 OHM J          |
| R401         | RD-4Z272J- | R CARBON FILM    | 1/4 2.7K OHM J         |
| R404         | RD-4Z399J- | R CARBON FILM    | 1/4 3.9 OHM J          |

| △ Symbol No. | Part No.   | Part Name      | Description        |
|--------------|------------|----------------|--------------------|
| R415         | RS02Z561JS | R M-OXIDE FILM | 2W 560 OHM J SMALL |
| R420         | RD-AZ473J- | R CARBON FILM  | 1/6 47K OHM J      |
| R450         | RS02Z103JS | R M-OXIDE FILM | 2W 10K OHM J SMALL |
| R501         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R502         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R503         | RD-AZ332J- | R CARBON FILM  | 1/6 3.3K OHM J     |
| R504         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R505         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R506         | RD-AZ332J- | R CARBON FILM  | 1/6 3.3K OHM J     |
| R507         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R508         | RD-AZ332J- | R CARBON FILM  | 1/6 3.3K OHM J     |
| R509         | RD-AZ681J- | R CARBON FILM  | 1/6 680 OHM J      |
| R512         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R513         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R514         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R515         | RD-AZ153J- | R CARBON FILM  | 1/6 15K OHM J      |
| R516         | RD-AZ393J- | R CARBON FILM  | 1/6 39K OHM J      |
| R517         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J       |
| R518         | RD-AZ273J- | R CARBON FILM  | 1/6 27K OHM J      |
| R520         | RD-AZ183J- | R CARBON FILM  | 1/6 18K OHM J      |
| R521         | RD-AZ391J- | R CARBON FILM  | 1/6 390 OHM J      |
| R522         | RD-AZ221J- | R CARBON FILM  | 1/6 220 OHM J      |
| R523         | RD-AZ331J- | R CARBON FILM  | 1/6 330 OHM J      |
| R524         | RD-AZ561J- | R CARBON FILM  | 1/6 560 OHM J      |
| R525         | RD-AZ104J- | R CARBON FILM  | 1/6 100K OHM J     |
| R526         | RD-AZ479J- | R CARBON FILM  | 1/4 4.7 OHM J      |
| R527         | RD-AZ431J- | R CARBON FILM  | 1/6 430 OHM J      |
| R528         | RD-AZ221J- | R CARBON FILM  | 1/6 220 OHM J      |
| R530         | RD-AZ470J- | R CARBON FILM  | 1/6 47 OHM J       |
| R531         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J       |
| R533         | RD-AZ103J- | R CARBON FILM  | 1/6 10K OHM J      |
| R534         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J       |
| R537         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R538         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R539         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R540         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R541         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R542         | RD-AZ472J- | R CARBON FILM  | 1/6 4.7K OHM J     |
| R543         | RD-AZ472J- | R CARBON FILM  | 1/6 4.7K OHM J     |
| R544         | RD-AZ221J- | R CARBON FILM  | 1/6 220 OHM J      |
| R545         | RD-AZ682J- | R CARBON FILM  | 1/6 6.8K OHM J     |
| R546         | RD-AZ472J- | R CARBON FILM  | 1/6 4.7K OHM J     |
| R547         | RD-AZ103J- | R CARBON FILM  | 1/6 10K OHM J      |
| R548         | RD-AZ472J- | R CARBON FILM  | 1/6 4.7K OHM J     |
| R549         | RD-AZ472J- | R CARBON FILM  | 1/4 4.7K OHM J     |
| R550         | RD-AZ472J- | R CARBON FILM  | 1/6 4.7K OHM J     |
| R551         | RD-AZ221J- | R CARBON FILM  | 1/6 220 OHM J      |
| R555         | RD-AZ103J- | R CARBON FILM  | 1/6 10K OHM J      |
| R556         | RD-AZ622J- | R CARBON FILM  | 1/6 6.2K OHM J     |
| R567         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R570         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J       |
| R580         | RD-AZ561J- | R CARBON FILM  | 1/6 560 OHM J      |
| R585         | RD-AZ224J- | R CARBON FILM  | 1/6 220K OHM J     |
| R586         | RD-AZ221J- | R CARBON FILM  | 1/6 220 OHM J      |
| R587         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R588         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R589         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J      |
| R591         | RD-AZ221J- | R CARBON FILM  | 1/6 220 OHM J      |
| R592         | RD-AZ103J- | R CARBON FILM  | 1/6 10K OHM J      |
| R593         | RD-AZ103J- | R CARBON FILM  | 1/6 10K OHM J      |
| R594         | RD-AZ103J- | R CARBON FILM  | 1/6 10K OHM J      |
| R595         | RD-AZ473J- | R CARBON FILM  | 1/6 47K OHM J      |
| R597         | RN-4Z1502F | R METAL FILM   | 1/4 15K OHM F      |

| △ Symbol No. | Part No.   | Part Name      | Description             |
|--------------|------------|----------------|-------------------------|
| R598         | RN-4Z1502F | R METAL FILM   | 1/4 15K OHM F           |
| R605         | RD-AZ751J- | R CARBON FILM  | 1/6 750 OHM J           |
| R606         | RD-AZ751J- | R CARBON FILM  | 1/6 750 OHM J           |
| R608         | RD-2Z151J- | R CARBON FILM  | 1/2 150 OHM J           |
| R609         | RD-2Z151J- | R CARBON FILM  | 1/2 150 OHM J           |
| R610         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J            |
| R614         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J            |
| R615         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J            |
| R620         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J            |
| R621         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J           |
| R622         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J           |
| R650         | RD-AZ332J- | R CARBON FILM  | 1/6 3.3K OHM J          |
| R660         | RD-AZ332J- | R CARBON FILM  | 1/6 3.3K OHM J          |
| R661         | RD-AZ392J- | R CARBON FILM  | 1/6 3.9K OHM J          |
| R662         | RD-AZ392J- | R CARBON FILM  | 1/6 3.9K OHM J          |
| R700         | RD-2Z332J- | R CARBON FILM  | 1/2 3.3K OHM J          |
| R710         | RD-AZ431J- | R CARBON FILM  | 1/6 430 OHM J           |
| R711         | RD-AZ301J- | R CARBON FILM  | 1/6 300 OHM J           |
| R713         | RD-AZ681J- | R CARBON FILM  | 1/6 680 OHM J           |
| R714         | RD-AZ82J-  | R CARBON FILM  | 1/6 82 OHM J            |
| R720         | RD-AZ122J- | R CARBON FILM  | 1/6 1.2K OHM J          |
| R721         | RD-AZ181J- | R CARBON FILM  | 1/6 180 OHM J           |
| R722         | RD-AZ221J- | R CARBON FILM  | 1/6 220 OHM J           |
| R723         | RD-AZ331J- | R CARBON FILM  | 1/6 330 OHM J           |
| △ R724       | RD-AZ471J- | R CARBON FILM  | 1/6 470 OHM J           |
| R801         | DPC7ROM290 | POSISTOR       | 96709                   |
| R802         | RS02Y753JS | R M-OXIDE FILM | 2W 75K OHM J SMALL      |
| R803         | RS02Z473JS | R M-OXIDE FILM | 2W 47K OHM J SMALL      |
| R804         | RF02Z338K- | R FUSIBLE      | 2W 0.33 OHM K (TAPPING) |
| R805         | RD-2Z100J- | R CARBON FILM  | 1/2 10 OHM J            |
| R806         | RD-4Z472J- | R CARBON FILM  | 1/4 4.7K OHM J          |
| R807         | RD-2Z332J- | R CARBON FILM  | 1/2 3.3K OHM J          |
| R808         | RS02Z821JS | R M-OXIDE FILM | 2W 820 OHM J SMALL      |
| R810         | RD-4Z102J- | R CARBON FILM  | 1/4 1K OHM J            |
| △ R811       | RC-2Z565KP | R CARBON COMP  | 1/2 5.6M OHM K          |
| R817         | RD-AZ473J- | R CARBON FILM  | 1/6 47K OHM J           |
| R819         | RX10T339J- | R CEMENT       | 10W 3.3 OHM J TRIPOD    |
| R820         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J            |
| R821         | RD-4Z102J- | R CARBON FILM  | 1/4 1K OHM J            |
| R829         | RD-AZ223J- | R CARBON FILM  | 1/6 22K OHM J           |
| R830         | RD-AZ332J- | R CARBON FILM  | 1/6 3.3K OHM J          |
| R840         | RD-4Z220J- | R CARBON FILM  | 1/4 22 OHM J            |
| R841         | RD-2Z479J- | R CARBON FILM  | 1/2 4.7 OHM J           |
| R850         | RD-2Z479J- | R CARBON FILM  | 1/2 4.7 OHM J           |
| R870         | RD-2Z222J- | R CARBON FILM  | 1/2 2.2K OHM J          |
| R888         | RD-AZ103J- | R CARBON FILM  | 1/6 10K OHM J           |
| R910         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J           |
| R911         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J           |
| R912         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J           |
| R913         | RC-2Z102K- | R CARBON COMP  | 1/2 1K OHM K            |
| R914         | RC-2Z102K- | R CARBON COMP  | 1/2 1K OHM K            |
| R915         | RC-2Z102K- | R CARBON COMP  | 1/2 1K OHM K            |
| R920         | RF01Y478K- | R FUSIBLE      | 1W 0.47 OHM K           |
| R921         | RD-AZ472J- | R CARBON FILM  | 1/6 4.7K OHM J          |
| R922         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J            |
| R923         | RD-AZ102J- | R CARBON FILM  | 1/6 1K OHM J            |
| RA01         | RD-AZ680J- | R CARBON FILM  | 1/6 68 OHM J            |
| RA02         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J           |
| RA03         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J           |
| RA04         | RD-AZ101J- | R CARBON FILM  | 1/6 100 OHM J           |
| RA05         | RD-AZ103J- | R CARBON FILM  | 1/6 10K OHM J           |
| RA06         | RD-AZ750J- | R CARBON FILM  | 1/6 75 OHM J            |
| RA08         | RD-AZ750J- | R CARBON FILM  | 1/6 75 OHM J            |

| △ Symbol No. | Part No. | Part Name  | Description                              |
|--------------|----------|------------|------------------------------------------|
|              | RA09     | RD-AZ750J- | R CARBON FILM 1/6 75 OHM J               |
|              | RA10     | RD-AZ101J- | R CARBON FILM 1/6 100 OHM J              |
|              | RA11     | RD-AZ680J- | R CARBON FILM 1/6 68 OHM J               |
|              | RA12     | RD-AZ680J- | R CARBON FILM 1/6 68 OHM J               |
|              | RA16     | RD-AZ680J- | R CARBON FILM 1/6 68 OHM J               |
|              | RA19     | RD-AZ750J- | R CARBON FILM 1/6 75 OHM J               |
|              | RA20     | RD-AZ473J- | R CARBON FILM 1/6 47K OHM J              |
|              | RA21     | RD-AZ473J- | R CARBON FILM 1/6 47K OHM J              |
|              | RA40     | RD-AZ102J- | R CARBON FILM 1/6 1K OHM J               |
|              | RA41     | RD-AZ102J- | R CARBON FILM 1/6 1K OHM J               |
|              | RA44     | RD-AZ682J- | R CARBON FILM 1/6 6.8K OHM J             |
| △            | SCT1     | 4859303530 | SOCKET CRT PCS629-03C                    |
|              | SF1      | 5PK3953M-- | FILTER SAW K3953M                        |
|              | SF2      | 5PK9650M-- | FILTER SAW K9650M                        |
|              | SW700    | 5S50101090 | SW TACT SKHV17910A                       |
|              | SW701    | 5S50101090 | SW TACT SKHV17910A                       |
|              | SW702    | 5S50101090 | SW TACT SKHV17910A                       |
|              | SW703    | 5S50101090 | SW TACT SKHV17910A                       |
|              | SW704    | 5S50101090 | SW TACT SKHV17910A                       |
| △            | SW801    | 5S40101143 | SW POWER PUSH PS3-22SP (P. C. B)         |
|              | T401     | 50D10A2--- | TRANS DRIVE TD-10A2                      |
| △            | T402     | 50H0000204 | FBT 1142.5106                            |
| △            | T801     | 50M3934A2- | TRANS SMPS 2084.0046                     |
|              | U100     | 4859719930 | TUNER VARACTOR DT5-BF18D                 |
|              | X502     | 5XE12R000E | CRYSTAL QUARTZ HC-49/U 12.00000MHZ 30PPM |
|              | X601     | 5XE18R432E | CRYSTAL QUARTZ HC-49/U 18.43200MHZ 30PPM |
|              | Z501     | 5PXP5R5MB  | FILTER CERA TPS5.5MB-TF21 (TP)           |
|              | Z601     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |
|              | Z602     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |
|              | Z603     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |
|              | Z604     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |
|              | Z605     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |
|              | Z606     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |
|              | Z607     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |
|              | Z608     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |
|              | Z609     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |
|              | Z610     | 5PXF1B471M | FILTER EMI CF1 06 B 1H 470PF             |

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