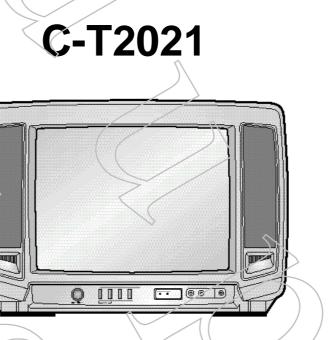
JVC

SERVICE MANUAL

COLOR TELEVISION



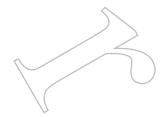
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SPECIFICATIONS

Items	Contents		
Dimensions (W×H×D)	60.0cm×48.0cm×44.6cm		
Mass	38.6lbs / 17.5kg		
TV System and Color system			
TV RF System	CCIR(M) & (N)		
Color System /	NTSC-M / PAL-M PAL-M		
TV Receiving Channels and Frequency			
VHF	2-13		
UHF	14-69		
CATV			
Low Band	02-06		
High Band	07-13		
Mid Band	14-22		
Super Band	23-36		
Hyper Band	37-64		
Ultra Band	65-94 , 100-125		
Sub Mid Band	01,96-99		
TV/CATV Total Channel	180 Channels		
Intermediate Frequency			
Video IF Carrier	45.75 MHz		
Sound IF Carrier	41.25 MHz (4.5MHz)		
Color Sub Carrier	NTSC: 3.579545MHz		
	PAL-M: 3.57561149MHz		
	PAL-N: 3.58205625MHz		
Power Input	RATING:110V-240V AC, 50Hz / 60Hz		
	OPERATING: 100V-260V AC, 50Hz / 60Hz		
Power Consumption	70W		
Picture Tube	20"		
Speaker	4-1/4" x 1-3/4", 4 ohm		
Audio Power Output	1.5W + 1.5 W		
Input (1 / 2)	Video : 1Vp-p 75ohm (RCA pin jack)		
	Audio : –8dB, 47kohm (RCA pin jack)		
Antenna terminal	75Ω (VHF/UHF) Terminal, F-Type Connector		
Remote Control Unit	X-076N0DW030		

Design & specification are subject to change without notice.





SAFETY PRECAUTIONS

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.

Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a \(\text{\bar}\) mark, the designated parts must be used.

4. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board. The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

5. TAKE CARE TO DEAL WITH THE CATHODE-RAY TUBE

In the condition that an explosion-proof cathoderay tube is set in this equipment, safety is secured against implosion. However, when removing it or serving from backward, it is dangerous to give a shock. Take enough care to deal with it.

6. AVOID AN X-RAY

Safety is secured against an X-ray by considering about the cathode-ray tube and the high voltage peripheral circuit, etc.

Therefore, when repairing the high voltage peripheral circuit, use the designated parts and make sure not modify the circuit.

Repairing except indicates causes rising of high voltage, and it emits an X-ray from the cathoderay tube.

7. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which we're removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

(INSULATION CHECK PROCEDURE)

- 1. Unplug the plug from the AC outlet.
- 2. Remove the antenna terminal on TV and turn on the TV.
- 3. Insulation resistance between the cord plug terminals and the evernal exposure metal [Note 2] should be more than 1M ohm by using the 500V insulation resistance meter [Note 1].
- If the insulation resistance is less than 1M orm, the inspection repair should be required.

[Note 1]

If you have not the 500V insulation resistance meter, use a Tester.

[Note 2]

External exposure metal: Antenna terminal Earphone jack

HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the VERSIÓN LETTER.)

- 1. MODEL NUMBER and VERSION LETTER
 - The MODEL NUMBER can be found on the back of each product and the VERSION LETTER can be found at the end of the SERIAL NUMBER.
- 2. PART NO. and DESCRIPTION
 - You can find it in your SERVICE MANUAL.

IMPORTANT

Inferior silicon grease can damage IC's and transistors.

When replacing an IC's or transistors, use only specified silicon grease (YG6260M).

Remove all old silicon before applying new silicon.

No.51842

3

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY INSTRUCTIONS

1. REMOVAL OF ANODE CAP

Read the following NOTED items before starting work.

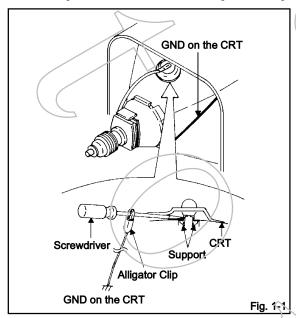
- * After turning the power off there might still be a potential voltage that is very dangerous. When removing the Anode Cap, make sure to discharge the Anode Cap's potential voltage.
- * Do not use pliers to loosen or tighten the Anode Cap terminal, this may cause the spring to be damaged.

REMOVAL

1. Follow the steps as follows to discharge the Anode Cap. (Refer to Fig. 1-1.)

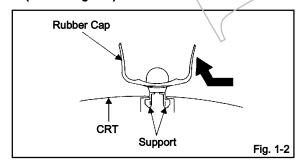
Connect one end of an Alligator Clip to the metal part of a flat-blade screwdriver and the other end to ground. While holding the plastic part of the insulated Screwdriver, touch the support of the Anode with the tip of the Screwdriver.

A cracking noise will be heard as the voltage is discharged.



2. Flip up the sides of the Rubber Cap in the direction of the arrow and remove one side of the support.

(Refer to Fig. 1-2.)



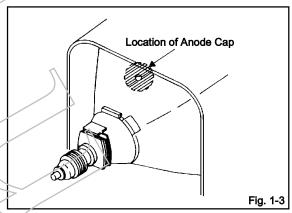
After one side is removed, pull in the opposite direction to remove the other.

NOTE

Take care not to damage the Rubber Cap.

INSTALLATION

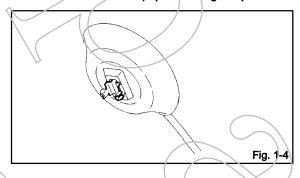
Clean the spot where the cap was located with a small amount of alcohol. (Refer to Fig. 1-3.)



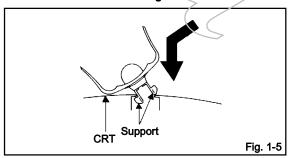
NOTE

Confirm that there is no dirt, dust, etc. at the spot where the cap was located.

- Arrange the wire of the Anode Cap and make sure the wire is not twisted.
- 3. Turn over the Rubber Cap. (Refer to Fig. 1-4.)



4. Insert one end of the Anode Support into the anode button then the other as shown in Fig. 1-5.



- 5. Confirm that the Support is securely connected.
- 6. Put on the Rubber Cap without moving any parts.

SERVICE MODE LIST

This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily.

To enter SERVICE MODE, unplug AC cord till lost actual clock time. Then press and hold Vol (-) button of main unit and remocon key for more than 1 second.

The both pressing of set key and remote control key will not be possible if clock has been set. To reset clock, either unplug AC cord and allow at least 90 seconds before Power On.

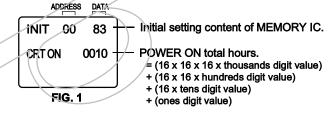
Set Key	Remocon Key	Operations
VOL. (-) MIN	1 (Initialization of the factory. NOTE: Do not use this for the normal servicing.
VOL. (-) MIN	6	POWER ON total hours is displayed on the screen. Refer to the "CONFIRMATION OF USING HOURS". Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "NOTE FOR THE REPLACING OF MEMORY IC".
VOL. (-) MIN	8	Writing of EEPROM initial data. NOTE: Do not use ∕this for the normal servicing.
VOL. (-) MIN	9	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).

CONFIRMATION OF USING HOURS

POWER ON total hours can be checked on the screen. Total hours are displayed in 16 system of notation.

NOTE: The confirmation of using hours will not be possible if clock has been set. To reset clock, either unplug AC cord and allow at least 90 seconds before Power On.

- 1. Set the VOLUME to minimum.
- Press both VOL. DOWN button on the set and Channel button (6) on the remote control for more than 1 second.
- 3. After the confirmation of using hours, turn off the power.







NOTE FOR THE REPLACING OF MEMORY IC

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to TABLE 1.

NOTE:

- 1. Initial Data setting will not be possible if clock has been set. To reset clock, either unplug AC cord and allow at least 90 seconds before Power On.
- 2. No need setting for after INI 4F.

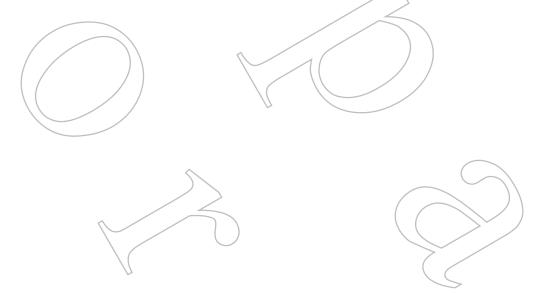
INI	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
00	90	DA	28	51	00	00	10	01	10	FF						
10	03	0A	0A	11 (17	20	28	26	30	34	38	3C	40	44	4C	4E
20	51	55	56	57	58	59	5A	5B	5C	5D	5E	5F	60	61	62	62
30	63	63	64	65	66	67	69	6A	6B	6C	6D	6E	6F	70	71	72
40	74	75	76	77	78	79	7A	7B	7C	ŔΡ	7D	7E	7F	7F	7F	7F

Table 1

- 1. Enter DATA SET mode by setting VOLUME to minimum.
- 2. Press both VOL. DOWN button on the set and Channel button (6) on the remote control for more than 1 second.

 ADDRESS and DATA should appear as FIG 1.
- 3. ADDRESS is now selected and should "blink". Using the VOL. UP/DOWN button on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
- 4. Press ENTER to select DATA. When DATA is selected, it will "blink".
- 5. Again, step through the DATA using VOL. UP/DOWN button until required DATA value has been selected.
- 6. Pressing ENTER will take you back to ADDRESS for further selection if necessary.
- 7. Repeat steps 3 to 6 until all data has been checked.
- 8. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

The unit will now have the correct DATA for the new MEMORY IC.



SERVICE ADJUSTMENT

ELECTRICAL ADJUSTMENTS

1. BEFORE MAKING ELECTRICAL ADJUSTMENTS

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

CAUTION

- Use an isolation transformer when performing any service on this chassis.
- Before removing the anode cap, discharge electricity because it contains high voltage
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.

Inferior silicon grease can damage IC's and transistors.

 When replacing IC's and transistors, use only specified silicon grease.

Remove all old silicon before applying new silicon.

Prepare the following measurement tools for electrical adjustments.

- 1. Oscilloscope
- 2. Digital Voltmeter

On Screen Display Adjustment

- 1. Unplug the AC plug for more than 90 seconds to set the clock to the non-setting state. Then, set the volume level to minimum.
- Press the VOL. DOWN button on the set and the Channel button (9) on the remote control for more than 1 second to appear the adjustment mode on the screen as shown in Fig. 3-1.

1. H/V

2. AKB

3. COLOR TEMP

4. PICTURE

5. OTHERS

6. TEST PATTERN

7.

8. (VOL TEST)

Fig. 1-1

3. Use the Channel button (1-8) on the remote control to select the options shown in Fig. 1-1.

0. END

 Press the channel button (0) or MENU button on the remote control to end the adjustments.

2. BASIC ADJUSTMENTS

2-1: CONSTANT VOLTAGE

- 1. Place the set with Aging Test for more than 15 minutes.
- 2. Using the remote control, set the brightness and contrast to normal position.
- 3. Connect the digital voltmeter to TP401.
- 4. Set condition is AV MODE without signal.
- 5. Adjust the **VR501** until the digital voltmeter is 134 \pm 0.5V.

2-2: VCO FREERUN

- 1. Receive the VHF LOW.
- Disconnect the Antenna while receiving the VHF LOW and set to the Noise screen.
- 3. Once turn off the Power and turn on the Power again.
- 4. Approxi. 3 seconds later, input the Antenna again.
- 5. Connect the digital voltmeter to TP201.
- 6. Adjust the **L204** until the digital voltmeter is 3.6 ± 0.05 V.

2-3: RF AGC DELAY

- 1. Place the set with Aging Test for more than 15 minutes.
- 2. Receive the VHF LOW (64dB).
- Connect the digital voltmeter between the pin 5 of CP101 and the pin 1 (GND) of CP101.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (5) on the remote control to select "O₹HERS". The Fig. 2-1 appears on the display.
- Press the channel button (1) on the remote control to select "RF AGC DELAY".
- 6. Press the VGL UP/DOWN button on the remote control until the digital voltmeter is 2.5 ± 0.05 V.

1. RF AGC DELAY

2. VIDEO LEVEL

3. FM LEVEL

4. OSD H

5. CUT OFF

6. X-RAY

7. (CHROMA VOL)

0. RETURN

Fig. 2-1

2-4: FOCUS

- 1. Receive the monoscope pattern.
- 2. Turn the Focus Volume fully counterclockwise once.
- 3. Adjust the Focus Volume until picture is distinct.

2-5: CUT OFF

- 1. Place the set with Aging Test for more than 15 minutes.
- 2. Set condition is AV MODE without signal.
- Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (5) on the remote control to select "OTHERS". The Fig. 2-1 appears on the display.
- 5. Press the channel button (5) on the remote control to select "CUT OFF".
- 6. Adjust the Screen Volume until a dim raster is obtained.

2-6: WHITE BALANCE

NOTE: Adjust after performing CUT OFF adjustment.

- 1. Place the set with Aging Test for more than 15 minutes.
- Receive the white 100% signal from the Pattern Generator.
- Using the remote control, set the brightness and contrast to normal position.
- 4. Activate the adjustment mode display of Fig. 1-1 and press the channel button (2) on the remote control to select "AKB". The Fig. 2-2 appears on the display.
- Press the channel button (2) on the remote control to select the "R.BIAS".
- Using the VOL. UP/DOWN button on the remote control, adjust the R.BIAS.
- Press the CH. UP/DOWN button on the remote control to select the "G.BIAS", "B.BIAS", "R.DRIVE", "G.DRIVE" or "B.DRIVE".
- Using the VOL. UP/DOWN button on the remote control, adjust the G.BIAS, B.BIAS, R.DRIVE, G.DRIVE or B DRIVE
- Perform the above adjustments 7 and 8 until the white color is looked like a white.

1.

- 2. R.BIAS
- 3. G.BIAS
- 4. B.BIAS
- 5. R.DRIVE
- 6. C.DRIVE
- 7. B.DRIVE
- 8. AGC AUTO 0. RETURN

Fig. 2-2

2-7: HORIZONTAL PHASE

- Receive the center cross signal from the Pattern Generator.
- Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (1) on the remote control to select "H/V". The Fig. 2-3 appears on the display.
- Press the channel button (1) on the remote control to select "H. PHASE 50/60".
- Press the VOL. UP/DOWN button on the remote control until the right and left screen size of the vertical line becomes the same.
- Receive the center cross signal of NTSC. Then perform the above adjustments 2~5.

1. H. PHASE 50/60

- 2. H. BLK
- 3. V. SIZE 50/60
- 4. V. POSI 50/60
- 5. V. LIN 50/60
- 6. V. SC 50/60
- 7. V. COMP
- 8. (H FREQ)

0. RETURN

Fig. 2-3

2-8: VERTICAL LINEARITY

NOTE: Adjust after performing adjustments in section 2-7.

- Receive the cross hatch signal from the Pattern Generator.
- 2. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (1) on the remote control to select "H/V". The Fig. 2-3 appears on the display.
- Press the channel button (5) on the remote control to select "V. LIN 50/60".
- Press the VOL. UP/DOWN button on the remote control until the SHIFT quantity of the OVER SCAN on upside and downside becomes minimum.
- Receive the cross hatch signal of NTSC. Then perform the above adjustments 2~5.

2-9: VERTICAL POSITION

NOTE: Adjust after performing adjustments in section 2-8.

- Receive the center cross signal from the Pattern Generator.
- Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (1) on the remote control to select "H/V". The Fig. 2-3 appears on the display.
- Press the channel button (4) on the remote control to select "V. POSI 50/60".
- Adjust the VR401 until the horizontal line becomes fit to the notch of the shadow mask.

2-10: VERTICAL SIZE

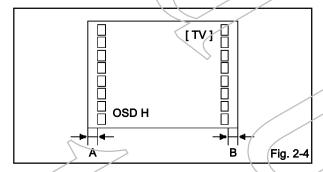
NOTE: Adjust after performing adjustments in section 2-9.

- Receive the cross hatch signal from the Pattern Generator.
- Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (1) on the remote control to select "H/V". The Fig. 2-3 appears on the display.
- Press the channel button (3) on the remote control to select "V. SIZE 50/60".
- Press the VOL. UP/DOWN butten on the remote control until the rectangle on the center of the screen becomes square.
- 6. Receive a broadcast and check if the picture is normal.
- Receive the cross hatch signal of NTSC. Then perform the above adjustments 2~6.

2-11: OSD HORIZONTAL

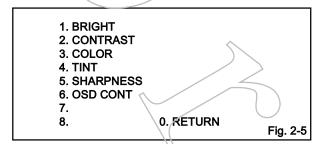
- Using the remote control, set brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (5) on the remote control to select "OTHERS". The Fig. 2-1 appears on the display.
- Press the channel button (4) on the remote control to select "OSD H".
- 4. Press the VOL. UP/DOV/N on the remote control until the difference of A and B becomes minimum.

 (Refer to Fig. 2-4)



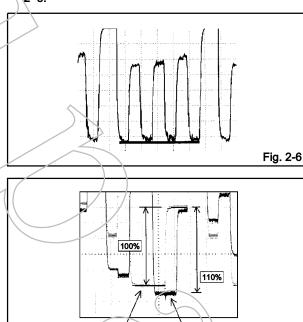
2-12: SUB BRIGHTNESS

- 1. Place the set with Aging Test for more than 15 minutes.
- 2. Receive the monoscope pattern. (RF Input)
- 3. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (4) on the remote control to select "PICTURE". The Fig. 2-5 appears on the display.
- 5. Press the channel button (1) on the remote control to select "BRIGHT".
- Press the VOL. UP/DOWN button on the remote control until the white 10% is starting to be visible.
- 7. Receive the monoscope pattern. (Audio Video Input)
- 8. Press the TV/AV button on the remote control to set to the AV mode. Then perform the above adjustments 3~6.



2-13: SUB TINT/SUB COLOR

- 1. Receive the color bar pattern of NTSC. (RF Input)
- 2. Connect the oscilloscope to TP803.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (4) on the remote control to select "PICTURE". The Fig. 2-5 appears on the display.
- Press the channel button (4) on the remote control to select "TINT".
- 5. Press the VOL. UP/DOWN button on the remote control until the waveform becomes as shown in Fig. 2-6.
- 6. Connect the oscilloscope to TP801.
- Press the CH DOWN button 1 time to set to "COLOR" mode.
- Press the VOL. UP/DOWN button on the remote control until the red color level is adjusted to 110% of the white level. (Refer to Fig. 2-7)
- Receive the color bar pattern of NTSC. (Audio Video Input)
- 10. Press the TV/AV button on the remote control to set to the AV mode. Then perform the above adjustments \2~8.



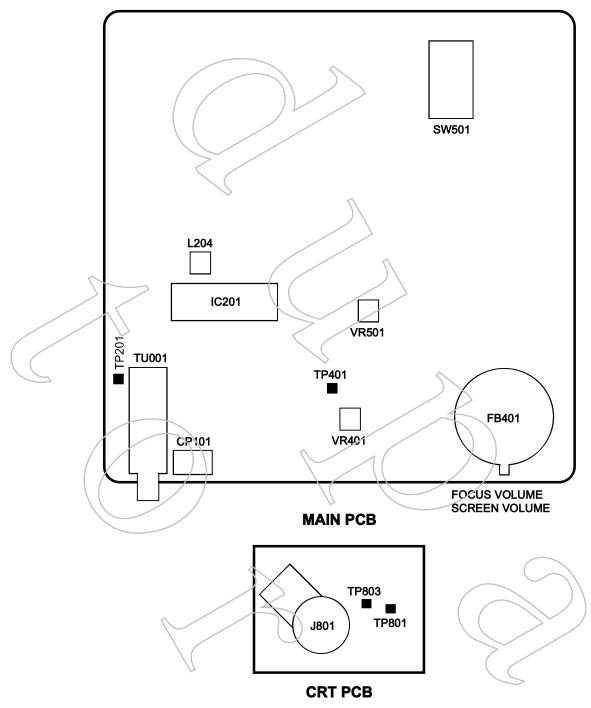
RED Level

Fig. 2-7

No.51842 9

White 100%

3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE



4. PURITY AND CONVERGENCE ADJUSTMENTS

NOTE

- Turn the unit on and let it warm up for at least 30 minutes before performing the fellowing adjustments.
- Place the CRT surface facing east or west to reduce the terrestrial magnetism.
- 3. Turn ON the unit and demagnetize with a Degause Coil.

4-1: STATIC CONVERGENCE (ROUGH ADJUSTMENT)

- Tighten the screw for the magnet. Refer to the adjusted CRT for the position. (Refer to Fig. 4-1)
 If the deflection yoke and magnet are in one body,
 untighten the screw for the body.
- Receive the green raster pattern from the color bar generator.
- Slide the deflection yoke until it touches the funnelside of the CRT.
- Adjust center of screen to green, with red and blue on the sides, using the pair of purity magnets.
- Switch the color bar generator from the green raster pattern to the crossnatch pattern.
- Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
- 7 Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.
- 8 Adjust the crosshatch pattern to change to white by repeating steps 6 and 7.

4-2: PURITY

NOTE

Adjust after performing adjustments in section 4-1.

- Receive the green raster pattern from color bar generator.
- Adjust the pair of purity magnets to center the color on the screen.
 - Adjust the pair of purity magnets so the color at the ends are equally wide.
- Move the deflection yoke backward (to neck side) slowly, and stop it at the position when the whole screen is green.
- 4. Confirm red and blue colors.
- 5. Adjust the slant of the deflection yoke while watching the screen, then tighten the fixing screw.

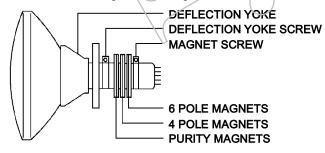


Fig. 4-1

4-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 4-2.

- Receive the crosshatch pattern from the color bar generator.
- Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
- Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

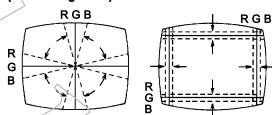
4-4: DYNAMIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 4-3.

- Adjust the differences around the screen by movingthe deflection yoke upward/downward and right/left. (Refer to Fig. 4-2-a)
- 2. Insert three wedges between the deflection yoke and CRT funnel to fix the deflection yoke.

 (Refer to Fig. 4-2-b)



UPWARD/DOWNWARD SLANT RIGHT/LEFT SLANT

Fig. 4-2-a

WEDGE WEDGE

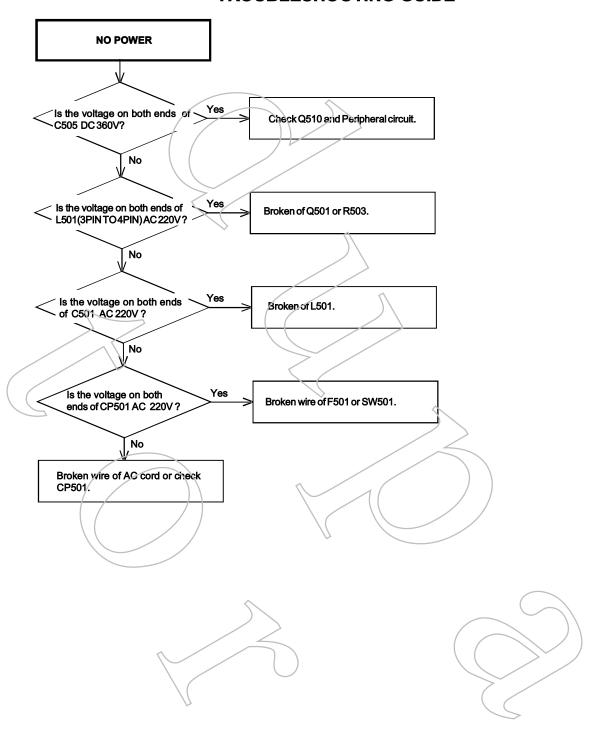
WEDGE POSITION Fig. 4-2-b

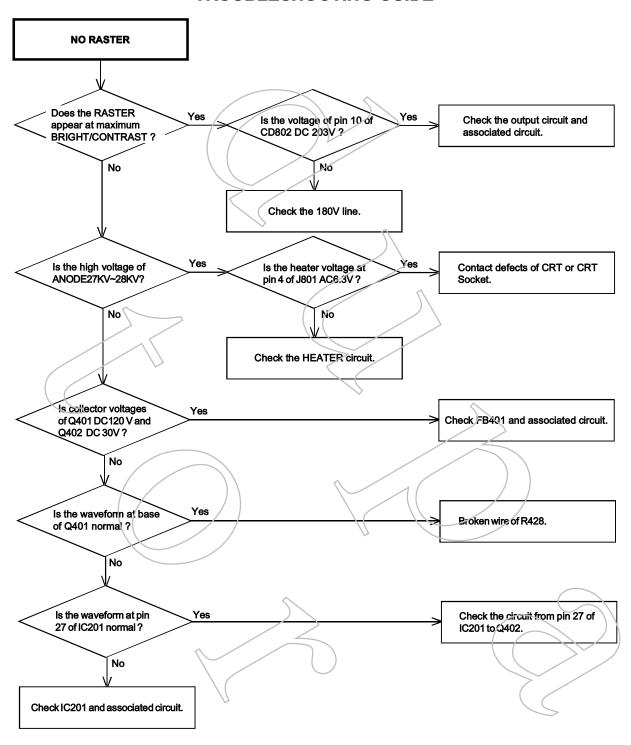
GUIDE FOR REPAIRING

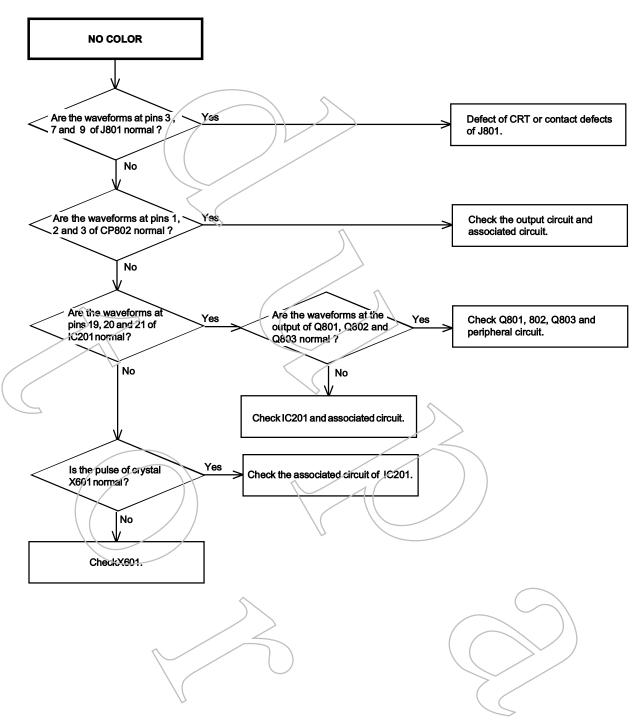
IC DESCRIPTION

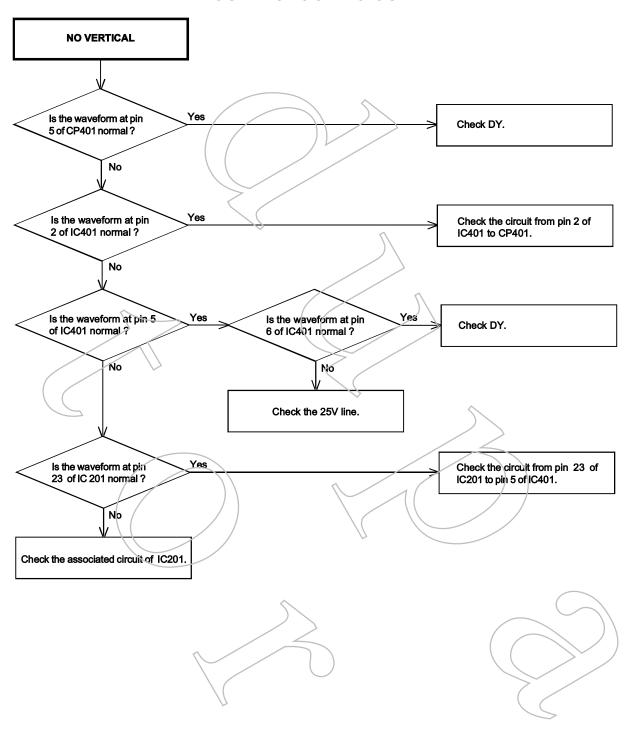
OEC3048A

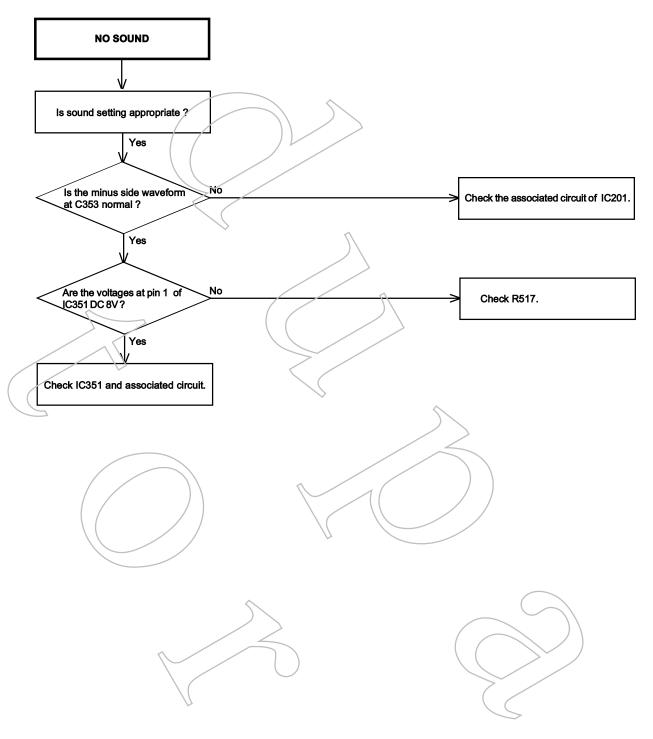
No.	Port	Pin Name	I/O	Logic	Description	
1	SDA0	SDA	1/0	1	Input/Output Data terminal for I2CBUS communication.	
2	SCL0	SCL	OUT	ì	Output Clock terminal for I2CBUS communication.	
3	SDA1	- / /	1/0	—)	Not used.	
4	SCL1	- (/	OUT	_	Not used.	
5	VSS	vss	_/		Negative power supply (Ground)	
6	XT1	XT1	IN		Connect the main crystal (32.768kHz).	
7	XT2	XT2	ØUТ		Connect the main crystal (32.768kHz).	
8	VDD	VDD	<u> </u>		Positive power supply (BACK_UP +5V)	
9	AN4	key_A	IN		Main unit key input.	
10	AN5	key_B	IN			
11	AN6	AFT	IN		AFT S.CURVE input for monitor tuner.	
12	AN7	X-RAY IN	IN		X-RAY detection input (nom. 0V)	
13	/RES	/RES	IN	0	System reset voltage input	
14	FJL7	FILTER	IN		Filter input for the Closed Caption	
15	CVIN	CVIN	IN		Picture signal input for the Closed Caption (1Vp-p)	
16	P30	SD	IN	0	Synchronization detector input	
17	₩S	NS	IN	0	Horizontal synchronization input	
18	/HS	/HS	IN	0	Vertical synchronization input	
19	R	R	OUT	1	Red output of RGB image output	
20	G	G	OUT	1	Green output of RGB image output	
21	В	B)	OUT	1	Blue cutput of RGB image output	
22	BL	BL /	OUT	1	Fast blanking control signal	
23	P31	IIC OFF	IN	0	Serial clock/data stop input	
24	P32	ON TIMER	OUT	1	Output terminal control for ON_TIMER-LED voltage drive.	
25	INT0	POWER FAIL	IN	0	Input for AC power.	
26	INT1	X-RAY	OUT	1	X-RAY test output	
27	P72	AKB DRIVE	OUT)1	Output sigmal to Adjustment of AKB WHITE	
28	INT3	REMOCON	IN	0	Receive the remote control signed input	
29	P14	SPOT OFF	OUT	0	Output High at turning off a television.	
30	PWM2	VOLUME PWN	OUT	1	Output sigmal to PWM output for volume control	
31	P16	AV1	OUT	_	Output terminal for control AV_SW_IC (TUNER,AV1,AV2)	
32	P17	AV2	OUT	_		
33	P00	POWER	OUT	1	For control of the user power switch ON/OFF.	
34	P01	MUTE	OUT	0	Mute signal of TV mute.	
35	P02	STAND BY	OUT	1	Output terminal control for STAND-BY-LED voltage drive.	
36	P03	DEGAUSS-H	OUT	1	Degauss output	

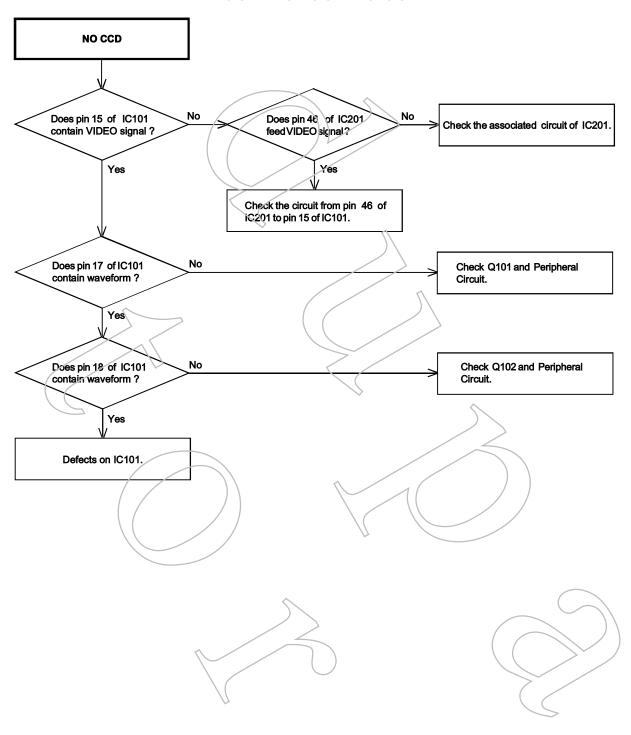












SPECIFICATIONS

Model	C-T1421	C-T2021		
AC Power Input:	110V-240V 50Hz/60Hz (Rating), 100V-20	60V 50Hz/60Hz (Coersting)		
AC Power Consumption:	44 Watts	70 Watts		
TV Color System:	PAL-M, PAL-N, NTSC-M			
Picture Tube:	33.6 cm (measured diagonally)	48 cm (measured diagonally)		
Audio Power Output Rating:	0.75+0.75 Watts (monaural)	1.5 + 1.5. Watts (monaural)		
Speaker:	10.8 cm x 4.5 cm Full Range, 8 ohm x 2	10.8 cm x 4.5 cm Full Range, 4 ohm x 2		
Input:	Video: 1.0Vp-p 75 ohm Audio: 300 mV, 47K ohm			
EARPHONE jack:	3.5 mm ø x 1			
Tuner Type:	181 Channel, Quartz PLL Frequency Syr	nthesized		
Remote Control:	Infrared, Direct Access 2 x AAA batterie	OS .		
Receiving Channels:	VHF 2-13 UHF 14-69 CATV 01-97 (5A)-(A-3) 98-99 (A-2)-(A-1) 14-22 (A)-(I) 23-36 (J)-(W) 37-65 (AA)-(FFF) 66-125 (GGG)-(125)	7		
Antenna Input Impedance:	75 Ohm (VHF/UHF/CATV) Coaxial Input			
Dimensions:	46 cm (W) x 36.3 cm (D) x 31.8 cm (H)	60 cm (W) x 48 cm (D) x 44.6 cm (H)		
Weight:	9.5 kg	17.5 kg		

ACCESSORIES:

Remote Control AAA Batteries x 2 300-75 ohm Matching Transformer Telescopic Antenna (C-T1421 only)

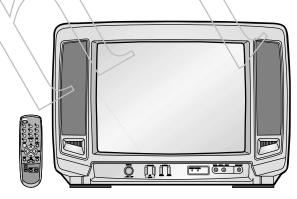
Specifications are subject to change without notice.





COLOR TELEVISION USER'S GUIDE

For models: C-T1421 C-T2021



IMPORTANT NOTE TO THE CUSTOMER:

In the space below, enter the serial number for your television (located on the rear of the television cabinet). Staple your sales receipt or invoice to the inside cover of this guide. Keep this user's guide in a convenient place for future reference. Keep the carton and original packaging for future use.



Serial Number



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE:

IMPORTANT SAFEGUARDS

1 DEAD INSTRUCTIONS

All the safety and operating instructions should be read before the unit is operated.

2. RETAIN INSTRUCTIONS

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS

All warnings on the unit and in the operating instructions should be adhered to.

4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

5. CLEANING

Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning the exterior cabinet only.

6. ATTACHMENTS

The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards.

7. WATER AND MOISTURE

Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool. PORTABLE CART WARNING (symbol provided by RETAC)

8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit.

8A. An appliance and cart combination should be moved with care. Quick stops, excessive

force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. VENTILATION

Slots and openings in the cabinet back or bottom are provided for ventilation, and to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. The openings should naver be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a rudiator or heat source. This unit should not be placed in a built-in installations such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. POWER SOURCE

This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

11. GROUNDING OR POLARIZATION

This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This also will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug, if your unit is equipped with a 3 wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power butlet. This too, is a safety leafure. If you are unable to insert the plug into the outlet, contacts your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

12. POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. LIGHTNING

To protect your unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges

14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

15. OVERLOADING

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code. ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of entenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

18. SERVICING

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. DAMAGE REQUIRING SERVICE

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the unit.
- c . If the unit has been exposed to rain or water.
- d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation
- e. If the unit has been dropped or the cabinet has been damaged.
- Winen the unit exhibits a distinct change in performance, this indicates a need for service.

20. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock or other hazards. 21. SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

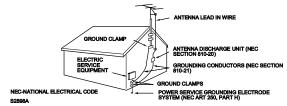
22. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

23. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE

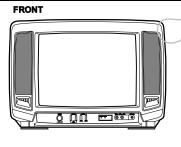


2 3

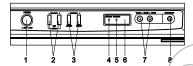
FEATURES

- 181 Channel Tuner The tuning system is capable of receiving all 68 VHF/UHF standard broadcast channels that are available in your area. When operating on a cable system, it can tune to the standard VHF channel frequencies plus up to 113 cable channel frequencies. The actual number of channels received depends upon channel reception in your area or your cable system.
- On-Screen 3 Language Display This TV can display the on screen language in English, Spanish or Portuguete,
- ON/OFF Timer Allows you to automatically turn on or off your TV at a set time.
- Sleep Timer Operable from the remote control, this TV can be programmed up to 120 minutes to turn off automatically.
- Picture Control Adjustments The On-Screen display allows precise remote control adjustment of BRIGHTNESS, COLOR, CONTRAST, SHARPNESS, TINT.
- Closed Captioned Decoder Displays text captions or 1/2 of full screen text on the screen for hearing impaired viewers.
- Front Video Input Jacks A VCR or other video device may be hooked up.
- Auto Voltage This TV can be used from a household 110V-240V, 50/60Hz.

LOCATION OF CONTROLS



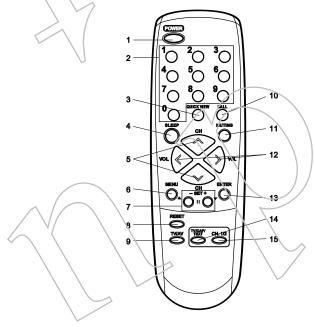




- POWER Button Press the POWEF button on the front panel to put the TV into standby mode.
- VOLUME +/- Buttons Press to raise or lower the volume of the sound.
- (MENU Buttons) Press the both buttons to display the On-Screen menu function.
- (SET +/ Buttons) Press to select the desired setting during On-Screen operations.
- CHANNEL +/- Buttons Press to select a higher or lower numbered channel set into memory.
- (Power on function) You can also turn on the TV by pressing the CHANNEL + or button on the front panel when the TV is in standby mode.
- **(ENTER Button)** Press to enter or select information for On-Screen operations.
- (RESET Button) Press to reset the On-Screen picture adjustments to their factory preset positions.

- 4. STAND BY Indicator This indicator lights up showing the unit is in standby mode.
- 5. ON TIMER Indicator This indicator lights up when ON TIMER program is turned ON.
- Remote Sensor Signals from the Remote Control unit are received here.
- 7. AV 2 N Jacks (Front) Audio and video signal cables
- EARPHONE Jack Plug an earphone with an 1/8 miniplug into this lack for listening.
- 9. AC Power Cord Connect to the AC outlet.
- 10. VHF/UHF IN (ANT) Jack Connect a VHF/UHF antenna or CATV cable to this jack.
- 11. AV 1 IN Jacks (Rear) Audio and video signal cables from an external source (ex. VCR) can be connected here.

REMOTE CONTROL



- 1. POWER Button Press to turn the TV on or off when the TV is standby mode.
- 2.10-key pad Allows direct access to any channel.
- QUICK VIEW Button Switches between the present channel and the last channel selected.
- SLEEP TIMER Button Sets the TV to turn off automatically after up to 120 minutes.
- 5. CH \(\tilde\lambda/\times\) buttons Press the \(\tilde\lambda\) button to change to a ligher numbered channel set into memory. Press the \(\tilde\rangle\) button to change to a lower numbered channel set into memory.
- (Power on function) You can also turn on the TV by pressing the CHANNEL ∧ or ∨ button on the remote control when the TV is in standby mode.
- MENU Button Press to display the On-Screen menu function.
- SET +/- Buttons Press to select the desired setting during On-Screen operations.

- RESET- Button Press to reset the On-Screen picture adjustments, clock setting and ON/OFF timer setting.
- TV/AV Button Switches between the TV and external input sources.
- CALL Displays the current status time, channel (or input), the present settings on the TV screen.
- 11. MUTING Button Press to turn off the sound. Press again to turn the sound back on.
- 12. VOL >/ ⟨ Buttons Press the ⟩ button to increase, or the ⟨ button to decrease the volume level.
 13. ENTER Button Press to enter selected setup.
- 14. TV/CAP/TEXT (Closed Caption) Button Switches between Caption, Text and TV modes for Closed-Captioned programs.
- 15. CH. 1/2 Button Switches between Channel 1 and Channel 2 in the Closed Caption mode.

REMOTE CONTROL

(CONTINUED)

ANTENNA/CATY CONNECTIONS

BATTERY INSTALLATION

 Open the battery compartment cover in the direction of the arrow.



Install two "AAA" (penlight size) batteries, paying attention to the polarity diagram in the battery compartment.



3. Replace the compartment cover.

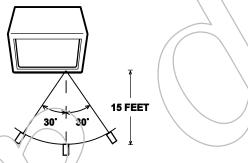


BATTERY PRECAUTIONS

The precautions below should be followed when using batteries in this device:

- 1. Use only the size and type of batteries specified.
- 2.Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device. To avoid a potential short circut, insert the "-" and first.
- Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
- 4. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge batteries not intended to be recharged; they can overheat and hunture. (Follow battery manufacturer's directions.)

EFFECTIVE DISTANCE OF THE REMOTE CONTROL TRANSMITTER



NOTES: • When there is an obstacle between the TV and the transmitter, the transmitter may not operate.

 When direct sunlight, an incandescent lamp, fluore scent lamp or any other strong light shines on the Remote sensor of the TV, the remote operation may be unstable.

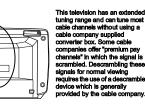
Combination VHF/UHF Antenna Single 75 ohm Cable 300 ohm Twin-lead Wire Splitter Take off the Splitter Journal of the Split

Combination VHF/UHF Antenna (Single 75 ohm Cable or 300 chm Twin-lead Wire)

Connect the 75 ohm cable from a combination VHF/UHF anterina to the Antenna Jack. If your combination antenna has a 300 ohm Tvin-lead Wire, use the 300-75 ohm Matching Transformer.

Combination VHF/UHF Antenna (Separate VHF and UHF 300 ohm Twin-leads)

Connect the UHF Twin-lead Wire to a Combiner (not supplied). Connect the VHF Twin-lead to the 300-75 ohm Matching Transformer. Attach the Transformer to the Combiner. Attach the Combiner to the Antenna Jack.



Indoor Antenna

A single pole antenna is supplied with the unit (C-T1421 only), insert the antenna holder into the mounting hole on the back of the cabinet until it locks into place. Attach the antenna plug to the antenna jack. Adjust the length and angle of the antenna rod to receive the best possible picture.

Separate VHF/UHF Antennes

Coinrect the 75 ohm Cable from the VHF antenna and the UHF antenna Twin-lead to a combiner (not supplied). Attach the Combiner to the Antenna Jack.

NOTE: it your VHF antenna has a Twin-lead Wire, use the 300-75 ohm Matching Transformer, then connect the Transformer to the Combiner.

For Subscribers to Basic Cable TV Service

For basic cable service not requiring a Converter/Descrambler box, connect the CATV 75 chm Coaxial Cable directly to the Antenna Jack on the back of the television.

For Subscribers to Scrambled Cable TV Service

If you subscribe to a cable service which requires the use of a Converter/Descrambler box, conjuect the incoming cable to the Converter/Descrambler box and connect the output of the box to the Antenna Jack on the back of the television. Follow the connections shown left. Set the television to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.

For Subscribers to Unscrambled Basic Cable with Scrambled Premium Channels

If you subscribe to a cable service in which basic cable channels are unscrambled and premium channels require the use of a Converter/Descrambler box, you may wish to use a two-set signal splitter (sometimes called a "two-set coupler") and an A/B Switch box from the cable installer or an electronics supply store. Follow the connections shown left. With the switch in the "B" position, you can directly tune any nonscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the box to tune scrambled channels.

CONNECTION TO OTHER EQUIPMENT

The exact arrangement you use to interconnect various video and audio components to the TV is dependent on the model and features of each component. Check the User's Guide provided with each component for the location of video and audio inputs and outputs.

The connection diagrams in the following are offered as suggestions. You may need to modify them to accommodate your particular assortment of components. The diagrams are intended to show component video and audio interconnections only.

Press the TV/AV button to select the AV mode to use the TV as a monitor. Operate your VCR as usual.

TV/AV SELECTION

If you connect the TV to VCR, camcorder, TV game or DVD you can select by pressing the TV/AV button.

Press the TV/AV button repeatedly to select the desired mode.

 \rightarrow TV \rightarrow AV1 \rightarrow AV2 An indication of input source will display

3. To connect the TV to a camcorder

To playback from the camcorder, connect the camcorder

VIDEO

(not supplied)

Select "AV 2" by pressing the TV/AV button to display

Front sty

AUDIO

on the screen for 4 seconds.

to the TV as shown.

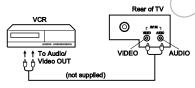
To Audio

Video OUT

the camcorder picture.

1. To connect the TV to a VCR

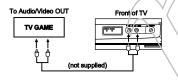
(ex. Use AV 1 IN jacks to connect it.)



. Select "AV 1" by pressing the TV/AV button to display the VCR picture.

2. To connect the TV to a TV Game

The TV can also be used as a display device for many video games. However, due to the wide variety of different types of signal generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. You'll need to consult each component's Owner's Manual for additional information.



. Select "AV 2" by pressing the TV/AV button to display the TV GAME picture.

SETTING LANGUAGE

This TV can display the channel number, on-screen displays and picture adjustments on the screen in English, Spanish or Portuguese.

On-screen language selection (step 3) will automatically appear on the screen when you press the MENU button initially. Select the language you prefer first, then proceed with the other menu options.

- 1 Press the MENU button.
- Press the SET + or button to select the LANGUAGE mode. then press the ENTER button.



3 Press the SET + or - button until the " ► " indicator points to the desired language: English (ENGLISH), Spanish (ESPANOL) or Portuguese (PORTUGUES), then press the ENTER button.

4 Press the MENU button.



If Spanish or Portuguese is chosen, the Closed Caption indicators will be in the selected language, but the Closed Caption text will not be affected by the language selection.

SETTING CLOCK

You must set the time manually for CALL and ON/OFF TIMER.

- 1 Press the MENU button.
- 2 Press the SET + or button until the indicator next to "CLOCK SET" begins to flash, then Press the ENTER button.
- E CLOCKSET

 I CNOFFTIMER

 I CH SETUP

 I PICTUSE

 I LANGUAGE / IDICMA

 I COLOR AUTO + 4-4 ENTER / MENU
- 4 Press the SET + or button to set the minute. If you want to change the hour, press the RESET button.

(+/-/ENTER/RESET/MENU)

5 Press the ENTER button.

3 Press the SET + or button to set the hour, then press the ENTER button.



NOTES:

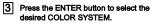
- · After a power failure, disconnection of the power plug or turning the TV power off by pressing the POWER button on the front panel, the time display will be lost. In this case, set present time
- · When you set the minute, you can change in 10minutes by holding down the SET + or - button.

COLOR SYSTEM

The color system is automatically selected, but if the picture is not clear or no color appears, select the color system

CLOCK SET

- 1 Press the MENU button.
- 2 Press the SET + or button to select the "COLOR" option then press the ENTER button.





MENII

4 Press the MENU button.

9

TO MEMORIZE CHANNELS

This TV is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the TV's memory. In addition to normal VHF and UHF channels, this TV can receive up to 113 Cable TV channels. To use this TV with an antenna, set the TV/CATV menu option to the TV setting. When shipped from the factory, this menu option is in the CATV setting.

TV/CATV SELECTION

- 1 Press the MENU button.
- 2 Press the SET + or button until the indicator next to "CH SET UP" begins to flash, then press the ENTER button.



CHSETUP TV > CATV

OF NUTO CH MEMO

HADD/DELETE

(+/--/ENTER/MENU

- 3 Press the SET + or button until the indicator next to "TV/CATV" begins to flash
- 4 Press the ENTER button to select the TV or CATV mode. The arrow indicates the selected mode.



NOTE: Contact your cable company to determine the type of cable system used in your area.

AUTOMATIC CHANNEL MEMORY

- 1 Press the MENU button.
- Press the SET + or button until the Indicator next to "CH SET UP" begins to flash, then press the ENTER button.



3 Press the SET + or - button until the GHEETUP indicator next to "AUTO CH MEMORY" begins to flash, then press the ENTER button. The TV will begin memorizing all the channels available in your area.



4 Press the MENU button.

TO ADD/DELETE CHANNELS

- 1 Press the MENU button.
- Press the SET + or button until the Indicator next to "CH SET-UP" begins to flash, then press the ENTER



Press the SET + or - button until the indicator next to "ADD/DELETE" begins to flash, then press the ENTER button.



- 4 Select the desired channels to be added or deleted using the 10-key pad (0-9) or the CH + or - button.
- 5 Press the ENTER button to select ADD on DELETE. If an unmemorized channel was selected (step 4), the channel indication will be red. Fress the CH+ or button if you wish to ADD the unmemorized channel. The channel indicator will change from red to green when a channel is added and the channel will be memorized. If a memorized channel was selected (step 4), the channel indication will be green.

Press the CH + or - button if you wish to DELETE the

channel from memory. The channel indicator will change from green to red when a channel is deleted. Receat Steps 4 and 5 for each channel to be added or deleted.



Fress the MENU button after adding or deleting all of the desired channels, to return to normal TV viewing.

TV BASIC OPERATION

- Press the POWER button on the front panel to put the TV into standby mode. The STAND BY indicator will light.
- Press the PCWER button on the remote control to turn on the TV. You can also turn on the TV by pressing the CHAN-NEL UP or DOWN button on the front panel or on the remote control when the TV is in standby mode.
- The VCLUME can be adjusted to a desired level by pressing the VOL (VOLUME) > or < button. Adjust the volume level by pressing the VOL > or < button. The volume level will be indicated on the screen by green bar. As the volume level increases, so do the number of bar. If the volume decreases, the number of green bar also decreases.

The sound level will be indicated on the TV screen by green bars and a number. As the sound level increases, so do the number of bars and the number on the screen. The same is true for decreasing the level.

VOLUME

CH 012

Set the TV/CATY menu option to the appropriate position. When shipped from the factory, this menu option is in the CATV setting. See "TO MEMORIZE CHANNELS"

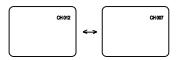
> - VHF/UHF channels CATV - CABLE TV channels

5 CH (CHANNEL) A and V buttons Press and release the CH (CHANNEL) A or V button. The channel automatically stops at the next channel set into memory.

For proper operation, before selecting channels, they should be set into the TV's memory. See "TO MEMORIZE CHANNELS".

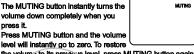
QUICK VIEW button

Returns to the channel viewed just before the channel currently onscreen



MUTING button

The MUTING button instantly turns the volume down completely when you press if.



level will instantly go to zero. To restore the volume to its previous level, press MUTING button again.

10-key pad (0-9)

CH. 1-9

Press these buttons to salect a channel. The channel number will appear on the upper right corner of the TV screen. If an invalid channel number is selected, the display will revert to the original channel.

TV Mode Direct Channel Selection

When the TV/CATV menu option is in the TV position, all channels can be instantly selected by using two buttons. (For example, to spiect channel 2, press "0", then "2". If you press only "2", channel selection will be delayed for a few seconds). For channels 10 and above, press the 2 digits in

CATV Mode Direct Channel Selection

When the TV/CATV menu option is in the CATV position, channels can be selected as follows:

Example, to select channel 2, press "002". CH. 10-12 Press "0", then remaining 2 digits. Example, to select channel 12, press CH. 13-99 Press the 2 digits in order. Example, to select channel 36, press CH. 100-125 Press the 3 digits in order. Example, to select channel 120, press "120".

Press "0" twice, then 1-9 as needed.

NOTE: If the station being viewed stops broadcasting, the TV will automatically shut off after 15 minutes.

10

SLEEP TIMER button

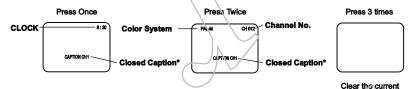
The Sleep Timer can turn the TV off for you after you fall asleep. Program it to work in intervals of 10 minutes, for a total time of up to 120 minutes.



- · To change the sleep timer setting: Press the SLEEP button repeatedly until the display turns to desired time/
- To cancel the sleep time: Press the SLEEP button repeatedly until the display turns to 0.

CALL button

Press the CALL button to display the current informations on the screen.



. This indication dose not appear when the Closed Capition is not active.

-- In the AV mode, "AV 1" or "AV 2" continues to display when there is no signal.

CLOSED CAPTION

WHAT IS CLOSED CAPTIONING?

This television has the carability to decode and display Closed Captioned television programs. Closed Captioning will display text on the screen for hearing impaired viewers or it will translate and display text in another language.

TO VIEW CLOSED CAPTIONS

Press the TV/CAP/TEXT button on the remote control to switch between normal TV and the two Closed Caption Modes (Captions and 1/2 of Full Screen Text).

Captions: This Closed Caption Mode will display text on the screen in English or another language (depending on the setting of the Closed Captions CH. 1/2 button). Generally, Closed Captions in English are transmitted on Captions Channel 1 and Closed Captions in other languages are transmitted on Captions Channel 2.

Text: The Text Closed Caption Mode will usually fill 1/2 of full screen with a programming schedule or other information. After selecting a Closed Caption Mode, it will stay in effect until it is changed, even if the channel is changed. If the Captions signal is lost due to a commercial or a break in the signal, the Captions will reappear when the signal is received again. If the channels are changed, the Captions will be delayed approximately 10 seconds. The Captions will appear in places on the screen where they will least interfere with the picture, usually on the bottom of the screen. News programs will usually show three-line Closed Captions which scroll onto the screen. Most other shows provide two or three lined Captions placed near the character who is speaking so the viewer can follow the dialogue. Words in italics or underlined describe titles, words in foreign languages or words requiring emphasis. Words that are sung usually appear enclosed by musical notes. For television programs broadcasting with Closed Captions, look in your TV guide for the Closed Captions symbol (CC).

- . When activating the Closed Captioned Decoder, there will be a short delay before the Closed Captioned text appears on the screen.
- . Closed Captioned text is only displayed in locations where it is available.
- If no caption signal is received, no captions will appear, but the television will remain in the Caption Mode.
- · Misspellings or unusual characters may occasionally appear during Closed Captioning. This is normal with Closed Captioning especially with live programs. This is because during live programs, captions are also entered live. These transmissions do not allow time for editing.
- When Captions are being displayed, on-screen displays, such as volume and MUTING may not be seen or may interfere with Closed Captions.
- · Some cable systems and copy protection systems may interfere with the Closed Captioned signal.
- If using an indoor entenna or #TV reception is very poor, the Closed Caption Decoder may not appear or may appear with strange chareciers or misspelled words. In this case, adjust the antenna for better reception or use an outdoor antenna.

PICTURE ADJUSTMENTS

You can adjust the settings for color, sharpness, contrast, brightness, tint (NTSC only) and component.

- 1 Press the MENU button.
- 2 Press the SET + or button until the indicator next to "PICTURE" begins to flash. then press the ENTER button.



3 Press the ENTER button repeatedly to select the item you want to adjust.



→ BRIGHTNESS → CONTRAST → COLOR SHARPNESS ← TINT (NTSC only)

4 Press the SET + or - button to adjust the setting.

informations*

	+//	_\ \
BRIGHTNESS	increase brightness	decrease brightness
CONTRAST	increase contrast	decrease contrast
COLOR	be brilliant color	be pale color
TINT (NTSC only)	be greenish color	be reddish color
SHARPNESS	makes picture clearer	makes picture softer

TO RETURN TO INITIAL SETTING

Press the RESET button while the picture adjusting mode appears on the screen (except the adjusting component).

NOTE: The on-screen display will disappear 6 seconds after finishing an adjustment. The settings can only be adjusted when they are displayed on the T / screen.

ON/OFF TIMER

ON TIMER SETTING

This feature allows you to have the TV automatically turn "ON" at predetermined time. If you program the "ON" timer once the timer will turn "ON" the TV daily at the same time and to the same channel. If the power has been turned on at programmed time, the channel is changed to a programmed one.

- 1 Press the MENU button.
- 2 Press the SET + or button until the indicator next to "ON/OFF TIMER" begins to flash, then press the ENTER button.









3 Press the SET + or – button until the indicator next to "ON TIMER" begins to flash, then press the ENTER button.



- 6 Press the SET + or button to set the channel, then press the ENTER button.
 - You can set the channel which is added in the CH SET UP option.
- ONOFF TIMER BON TIMER 7:30 CHO 2 CANCE CALICE +/--/ENTER/FESET/MENU)

- 4 Press the SET + or button to set the hour, then press the ENTER button. If you want to change the hour, press the RESET button.
 - ON/OFF TIME? IION TIMER 0:00 C CANCE +/-/ENTER/RESET/MENU
- 7 Press the SET + or button to select the SET mode.

Press the MENU button.

ON/OFF TIMER ION TIMER 7:30 CH007 OFF TIMER CANCI +/--/ENTER/RESET/MENU

CH012 CANCE

+/-/ENTER/RESET/MENU)

CH012

+/-/ENTER/RESET/MEN.

CANCE

NOTES:

- You cannot set the ON/OFF TIMER when the clock is not set.
- . This TV will automatically turn off approximately thour later after the ON TIMER turns on the TV unless any buttons are pressed.
- To cancel the ON TIMER function: To cancel ON TIMER in step 7 above press the SET + or - button to select the CANCEL mode.

OFF TIMER SETTING

This feature allows you to have the TV turn "OFF" automatically at a predetermined time. If you program the OFF TIMER once, The TV will be automatically turned off at the same time daily.

- 1 Press the MENU button.
- Press the SET + or button until the indicator next to "ON/OFF TIMER" begins to flash, then press the ENTER button.

3 Press the SET + or - button

press the ENTER button.

until the indicator next to "OFF

TIMER" begins to flash, then





- 4 Press the SET + or button to set the hour, then press the ENTER button. If you want to change the hour, press the RESET button.
- 5 Press the SET + or button to set the minute then press the ENTER button.
 - You can change in 10 minutes step by holding down the SET + or - button.
- 6 Press the SET + or button to select the SET moda. 7 Press the MENU button.
- ON/OFF TIMER ION TIMER 7:30 CANCE /--/ENTER/RESET/MENU

- . If station being viewed stops broadcasting, the TV will automatically shut itself off after 15 minutes.
- To cancel the OFF TIMER function:
- To cancel OFF TIMER, in step 7 above press the SET to or button to select the CANCEL mode.

TROUBLESHOOTING GUIDE

Before requesting service, please refer to the following chart for the symptom and possible solution.

SYMPTOMS	POSSIBLE SOLUTIONS
TV does not operate	Make sure the power cord is plugged in. Try another AC outlet. Power is off, check fuse or circuit breaker. Unplug unit for an hour, then plug it back in.
Poor sound or No sound	Station or CATV experiencing problems, tune to another station. Check sound adjustments (Volume and Muting). Check for sources of possible interference.
Poor picture or No picture	Station or CATV experiencing problems, tune to another station. Make sure channels are set into memory. Check antenna or CATV connections, reorient antenna. Check for sources of possible interference.
Poor reception on some channels	Station or CATV experiencing problems, tune to another station. Make sure channels are set into memory. Station signal is weak, reorient ant-arina to receive desired station. Check for sources of possible interference.
Poor color or no color	Station or CATV experiencing problems, tune to another station. Make sure channels are set into memory. Check picture control adjustments. Check antenne or CATV coincections, reorient antenna. Check for sources of possible interference. Check the color system.
Picture wobbles or drifts	Station or CATV experiencing problems, tune to another station. Make sure channels are set into memory. CATV company is scrambling signal. Check antenna orientation.
No CATV reception	Check all CATV connections. Set TV/CATV menu option to the CATV mode. Station or CATV system problems, by another station.
Horizontal or diagonal bars on screen	Check antenna connections, reorient entenna. Check for sources of possible interference.
No reception above channel 13	Maire sure TV/CATV menu option is in the appropriate mode. If using antenna, check UHF antenna connections.
No Remote operation	Batteries are weak, dead or inserted incorrectly, Remote is out of range, move closer to TV within (15 feet). Make sure Remote is aimed at sensor. Confirm there are no obstructions between the Remote and the TV. Make sure the power cord is plugged in.
TV shuts off	No broadcast on station tuned. Sleep Timer is set. ON/OFF TIMER is set. Power interrupted. Approximately 1 hour has passed after the ON TIMER turns on and no button was pressed (See page 14).
Closed - Caption is not activated.	TV station experiencing problems or program tuned is not closed captioned. Try another channel. Check CATV connection or VHF/UHF antenna, reposition or rotate antenna. Press TV/CAP/TEXT button to turn on the closed caption decoder.
Display is not shown in your language.	Select proper language in the menu options.

C-T2021 C-T2021

SEMICONDUCTOR BASE CONNECTIONS

DIODE



1SS133T-77

HZ11B3L TD

HZ27-1L TD

MTZJ18B T-77

MTZJ30B T-77 MTZJ33B T-77

MTZJ5.1B T-77

MTZJ5.6B T-77

MTZJ6.8B T-77

AU02A-EIC







11E1-EIC 11EQS04N-TA1B2 21DQ09N-TA2B1

10ELS6TA1B2 RM11C-EIC **RU2AM-EIC**

SLR-342MCT32 SLR-342VCT32

IC













PST600H



KIA7805API KIA7806API KIA7809API



AN7523





LA78040











2SC2621(D,E)-RAC 2SC4217(D,E)-RAC 2SA1037AKT146R,S 2SC2412KT146 R,S

DTA114EKAT146 DTC114TKAT146 DTC144EKAT146



■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The Components identified by the symbol riangle are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts

2.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PC board :R1209→R209

3.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND.

Please, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

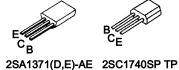
CONTENTS

SEMICONDUCTOR BASE CONNECTIONS	2
BLOCK DIAGRAMS	3
CIRCUIT DIAGRAMS	5

MAIN PCB MICON/TUNER SCHEMATIC DIAGRAM MAIN PCB CHROMA/IF SCHEMATIC DIAGRAM MAIN PCB POWER SCHEMATIC DIAGRAM MAIN PCB DEFLECTION SCHEMATIC DIAGRAM MAINI DOR AV SIM / SOLINID SCHEMATIC DIACRAM



TRANSISTOR



2SA1624-AA

2SC4204-AA

2SB926(S,T)-AA

2SC1815Y(TPE2)

2SC2909(S,T)-AA









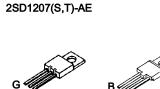








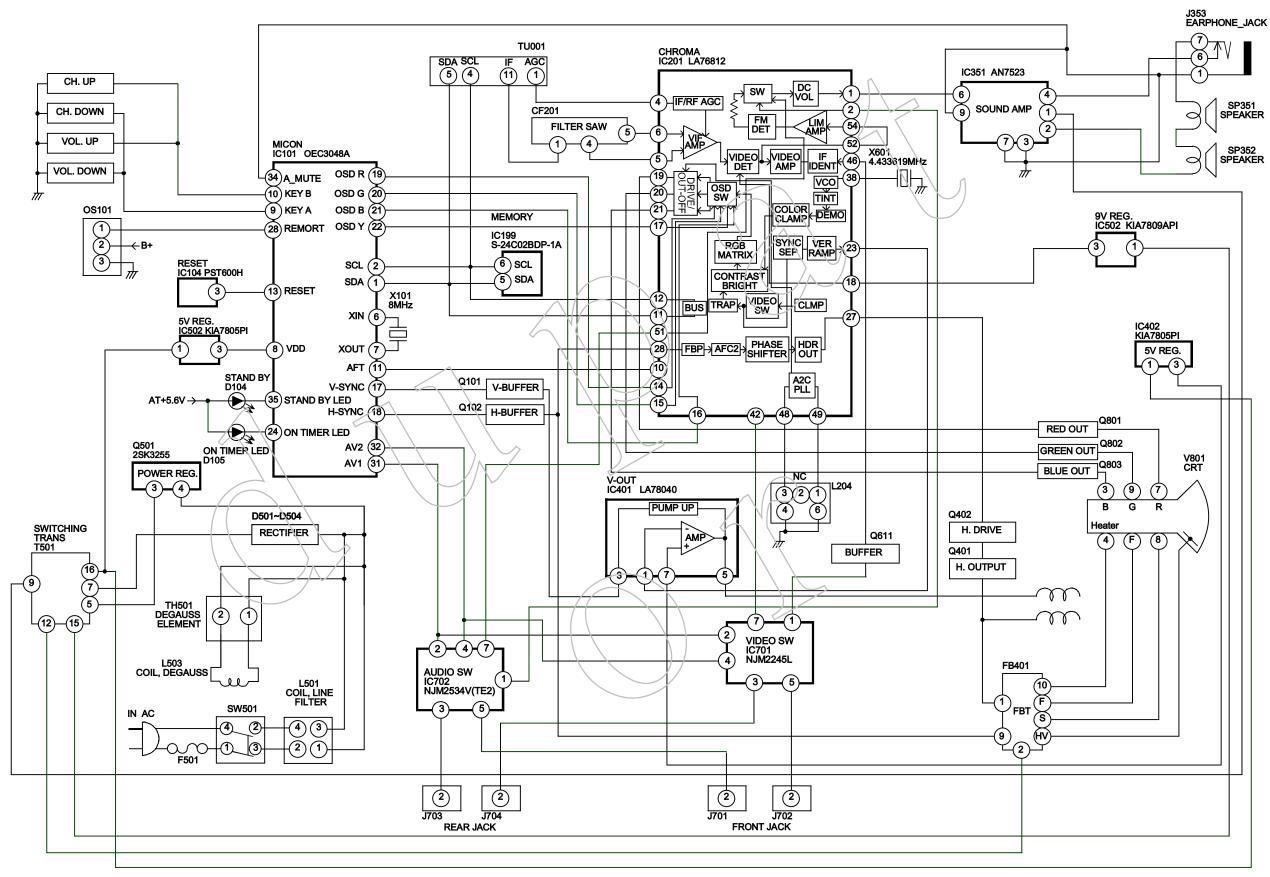
TLP621(D4-GR-LF2)



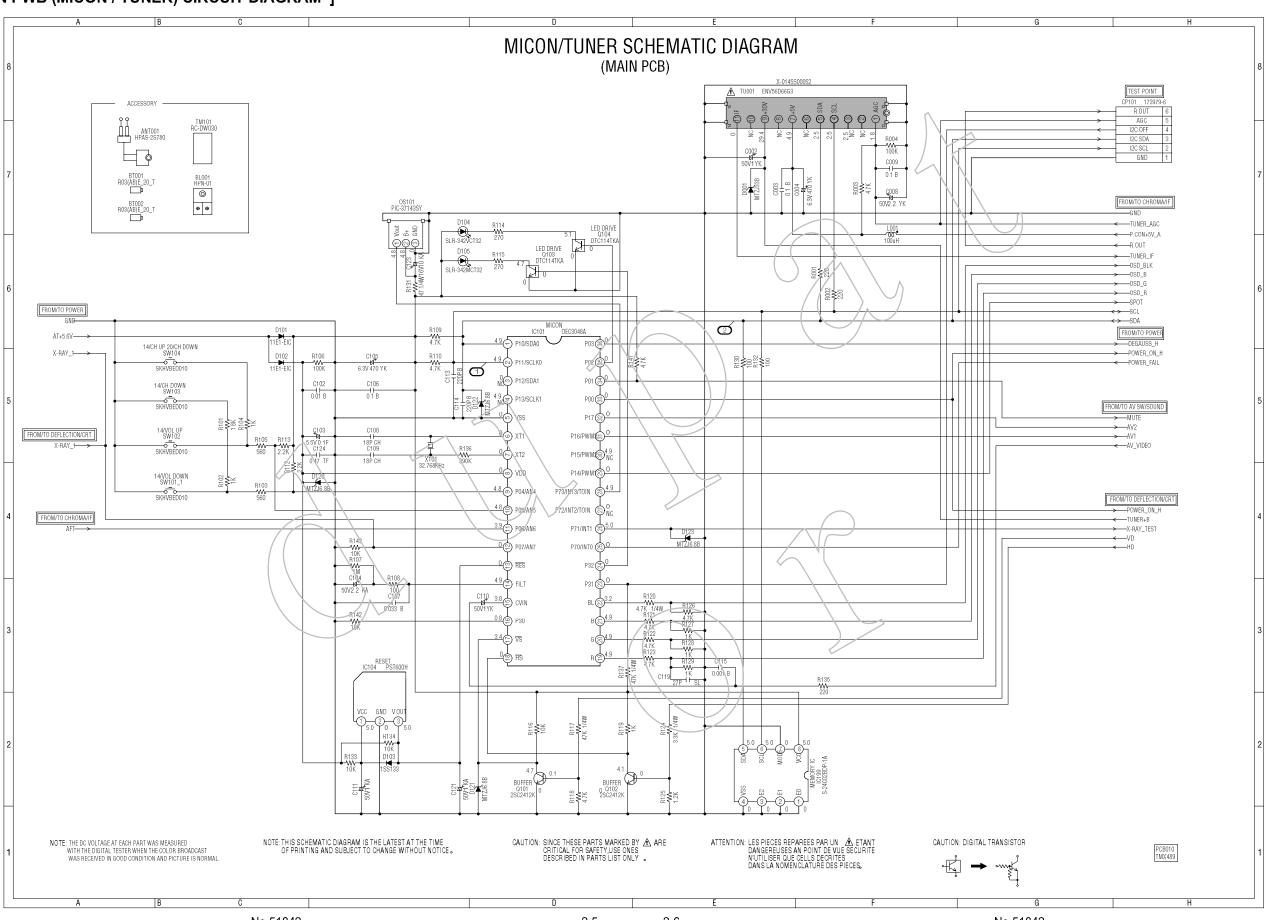


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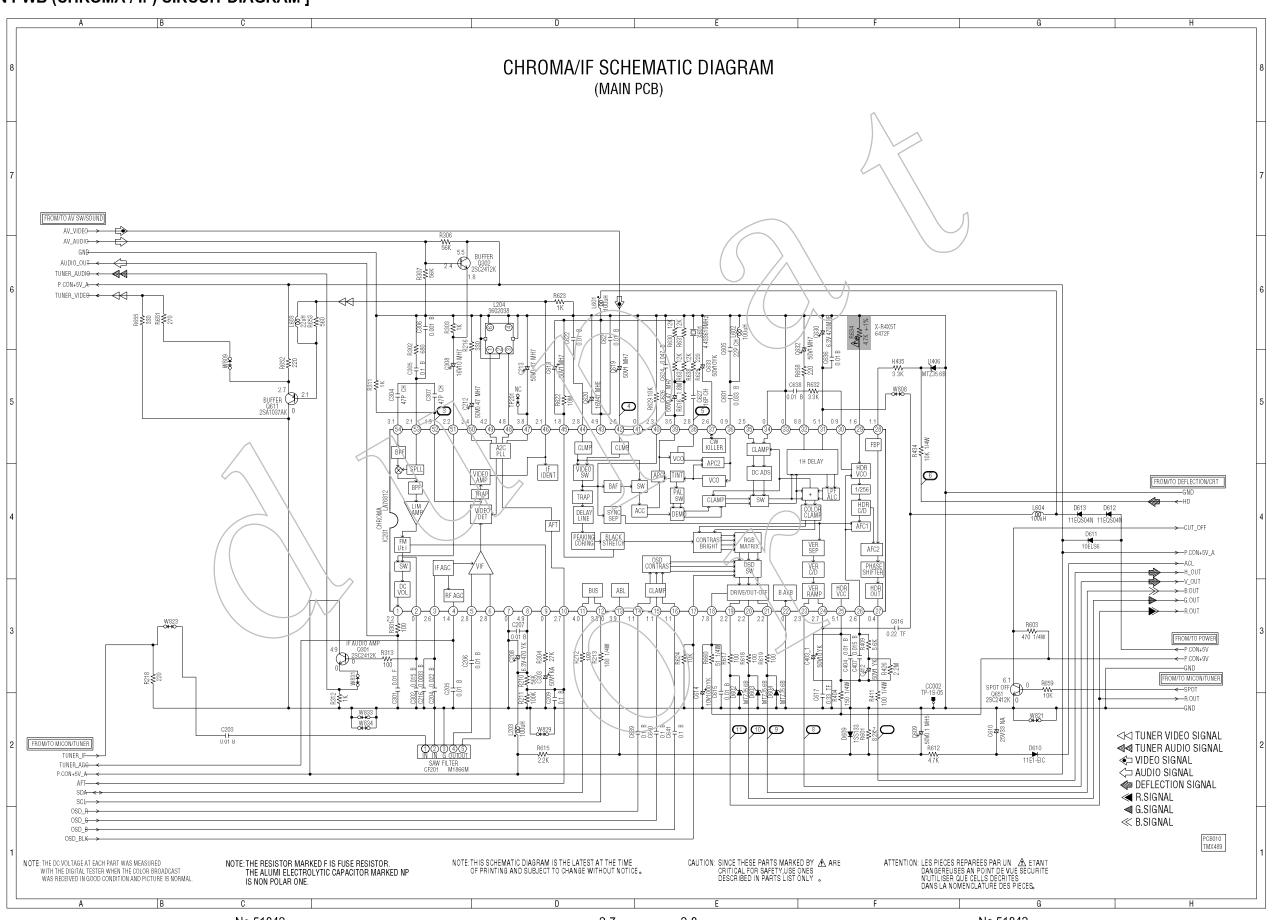
BLOCK DIAGRAM



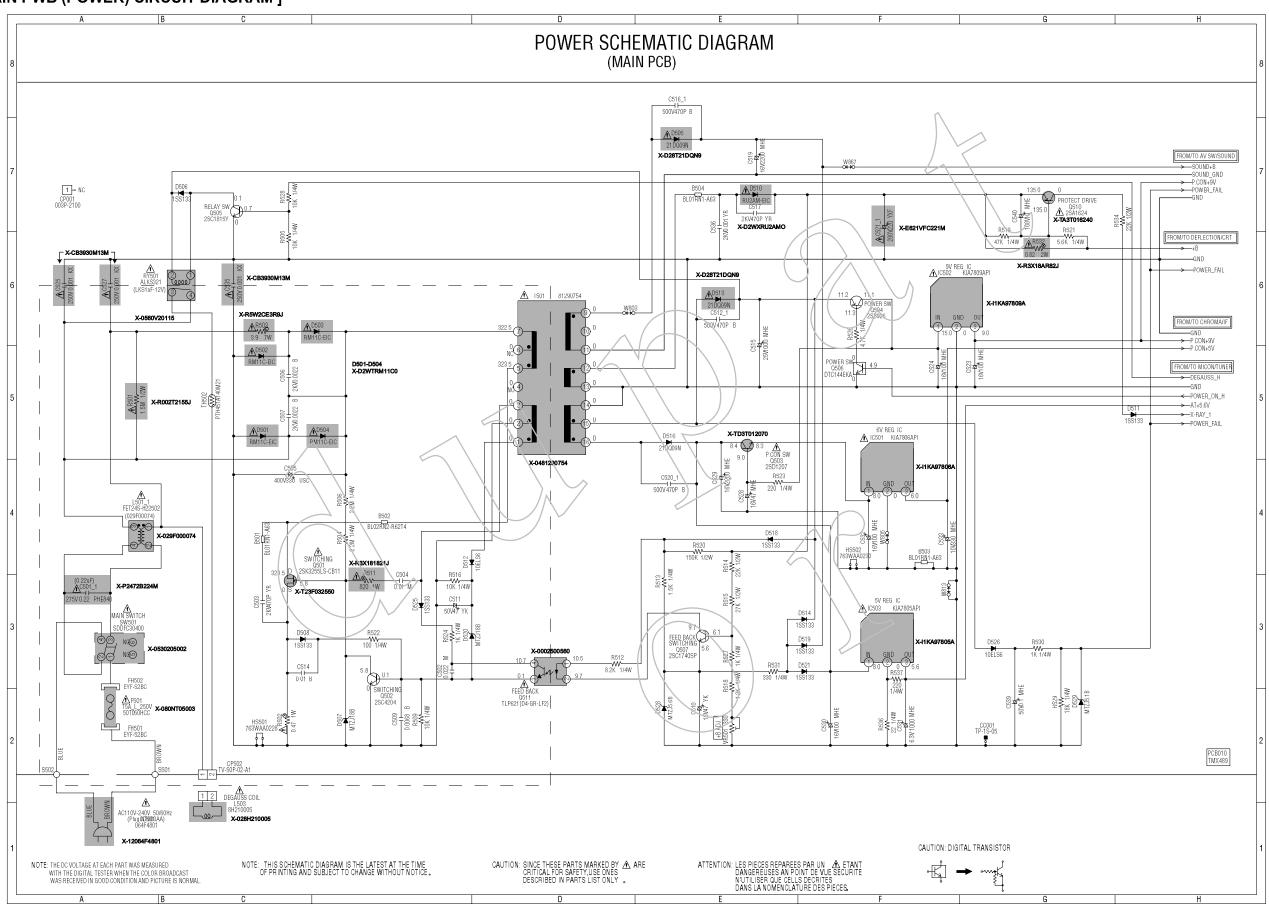
[MAIN PWB (MICON / TUNER) CIRCUIT DIAGRAM]



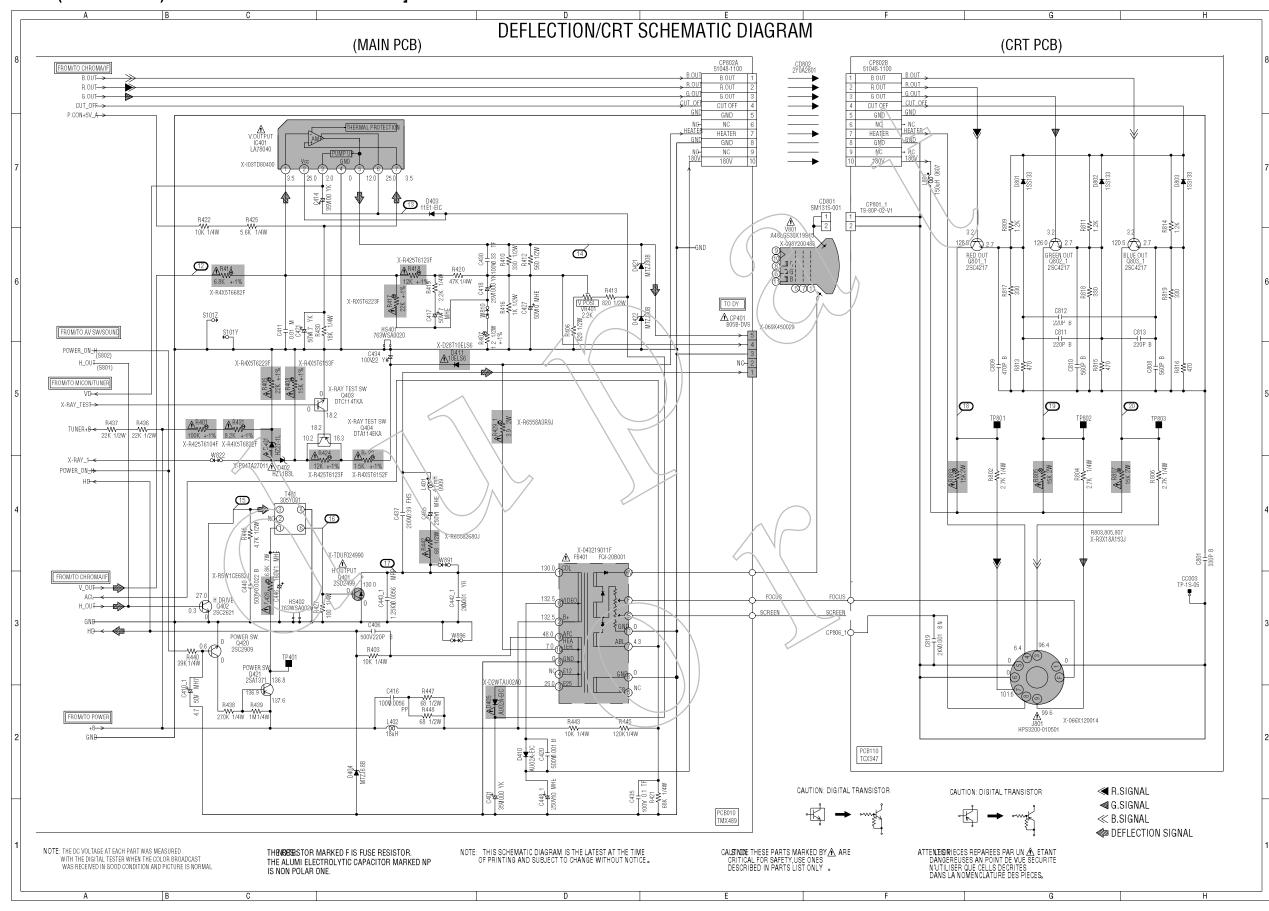
[MAIN PWB (CHROMA / IF) CIRCUIT DIAGRAM]



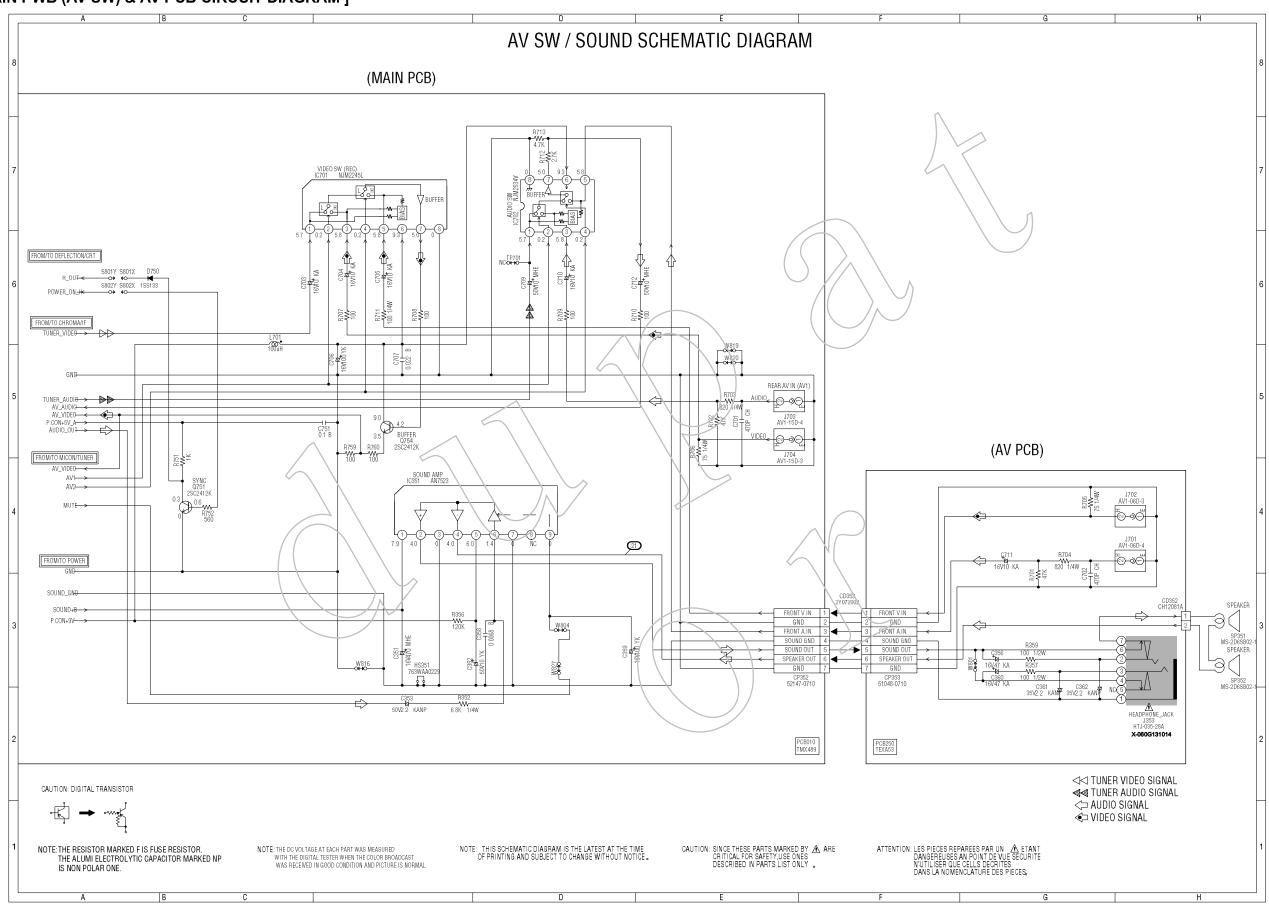
[MAIN PWB (POWER) CIRCUIT DIAGRAM]



[MAIN PWB(DEFLECTION) & CRT PWB CIRCUIT DIAGRAM]

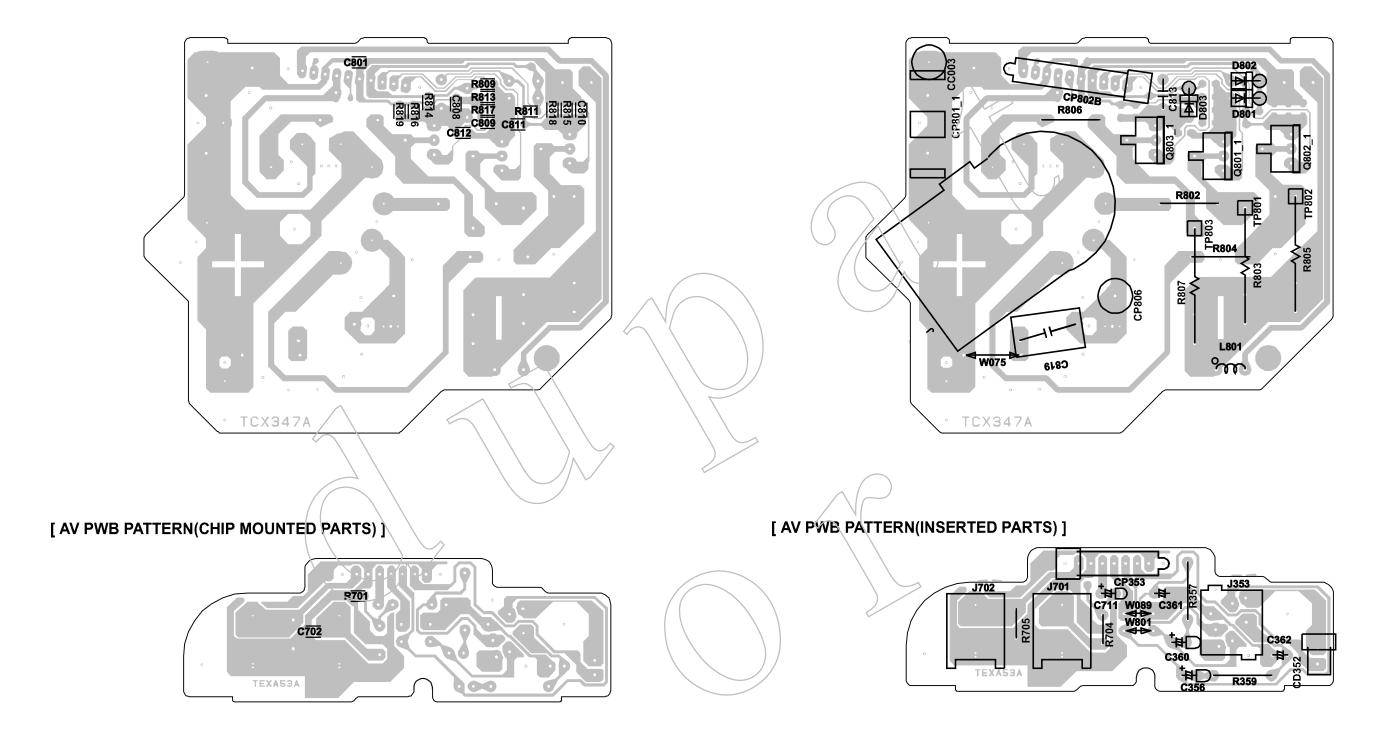


[MAIN PWB (AV SW) & AV PCB CIRCUIT DIAGRAM]



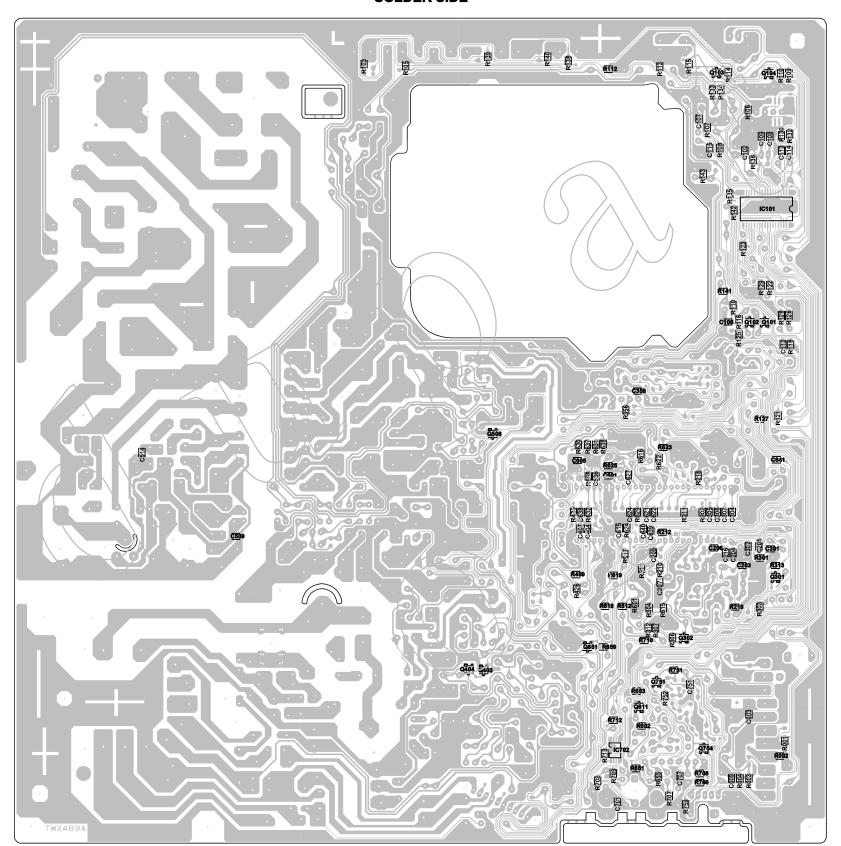
PATTERN DIAGRAM [CRT PWB PATTERN(CHIP MOUNTED PARTS)]

[CRT PWB PATTERN(INSERTED PARTS)]



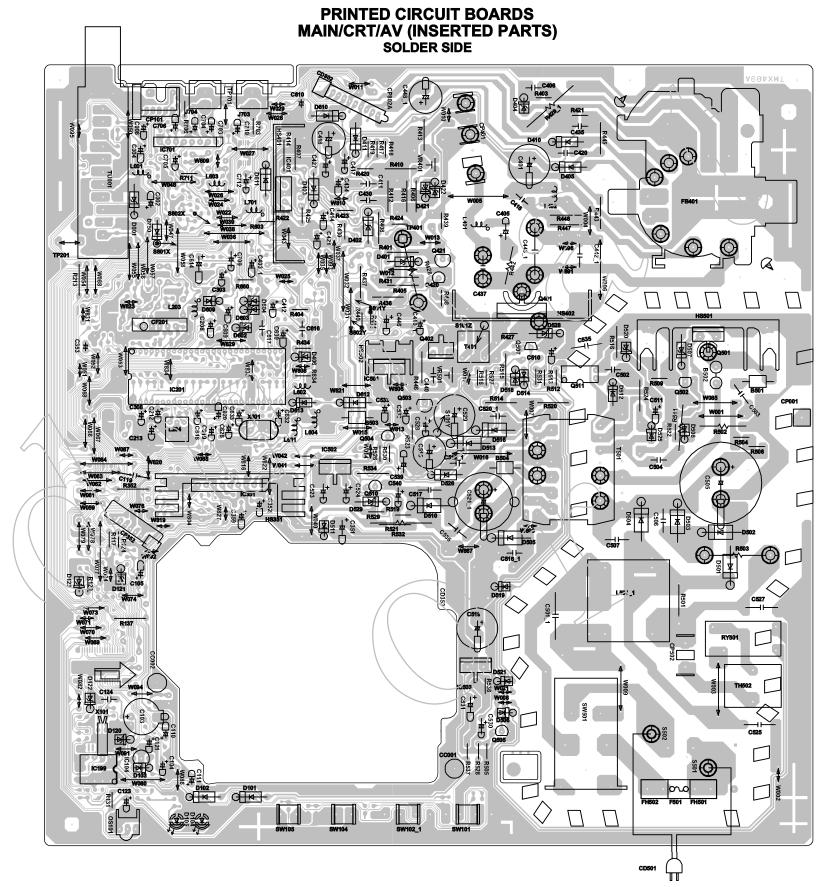
[MAIN PWB PATTERN(CHIP MOUNTED PARTS)]

PRINTED CIRCUIT BOARDS MAIN/CRT/AV (CHIP MOUNTED PARTS) SOLDER SIDE



C-T2021

[MAIN PWB PATTERN(INSERTED PARTS)]



WAVEFORMS

WAVEFORMS WAVEFORMS MICON/TUNER **AV SW/SOUND** 6 200mV 10 s/div 11 100mV 5ms/div 1 100mV 10 s/div 16 1.0V 20 s/div 21) 200mV 1ms/div **DEFLECTION/CRT** ② 100mV 10 s/div (7) 20mV 10 s/div (2) 100mV 5ms/div 17 1.0V 20 s/div CHROMA/IF 3 10mV 10 s/div (3) 1.0V 5ms/div 8 100mV 5ms/div 18 5.0V 20 s/div 4 20mV 10 s/div (9) 100mV 5ms/div 14 1.0V 5ms/div (1) 5.0V 20 s/div 5 5.0mV 100ns/div (10) 100mV 5ms/div 15) 1.0V 20 s/div ② 5.0V 20 s/div

2-21

2-22

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

No.51842

PARTS LIST

CAUTION

- The parts identified by the A 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, CAPACITORS

RESISTOR

CARBON RESISTOR RC.....

CAPACITORS

CERAMIC CAPACITOR CC..... CE..... ALUMI ELECTROLYTIC CAPACITOR CP..... POLYESTER CAPACITOR CPP..... POLYPROPYLENE CAPACITOR PLASTIC CAPACITOR CPL..... METAL POLYESTER CAPACITOR CMP..... €MPL..... METAL PLASTIC CAPACITOR

CMPP.....

CONTENTS

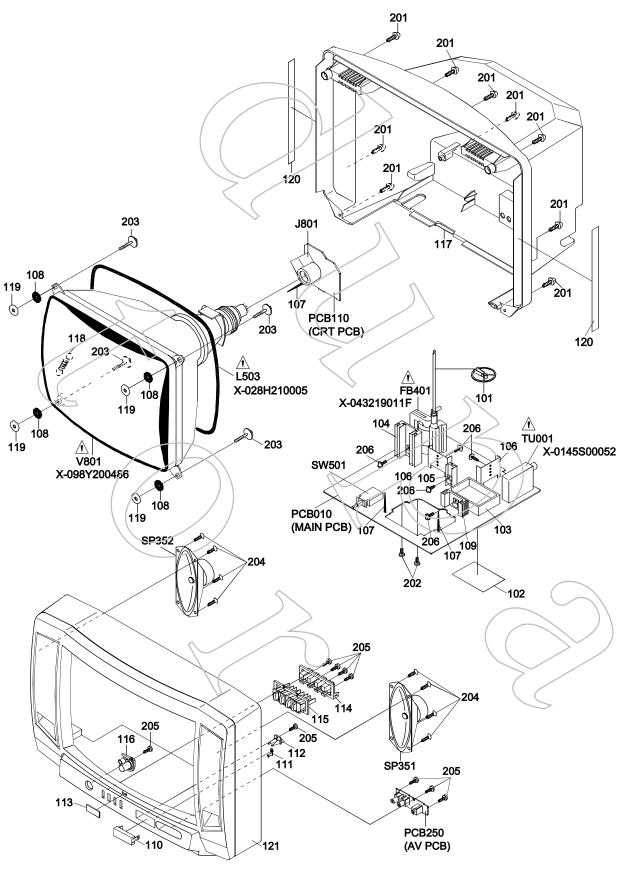
■ USING P.W. BOARD · · · · · · · · · · · · · · · · · · ·		····· 19
■ MECHANICAL EXPLODED VIEW · · · · · · · · ·		
■ MECHANICAL REPLACEMENT PARTS LIST		·····21
■ ELECTRICAL REPLACEMENT PARTS LIST		
■ PACKING & ACCESSORY REPLACEMENT	PARTS JIST	/
PACKING & ACCESSORY REPLACEMENT	PARISZISI	<i>,</i>

USING R.W. BOARD

	Model	C-T2021
P.W.B ASS'Y	A	0 12021
MAIN PCB ASS'Y		X-A3H805C01A
CRT PCB ASS'Y		X-A3H805C11A
AV PCB ASS'Y		X-A3H805C25A
-		

METAL POLYPROPYLENE CAPACITOR

MECHANICAL EXPLODED VIEW



MECHANICAL REPLACEMENT PARTS LIST

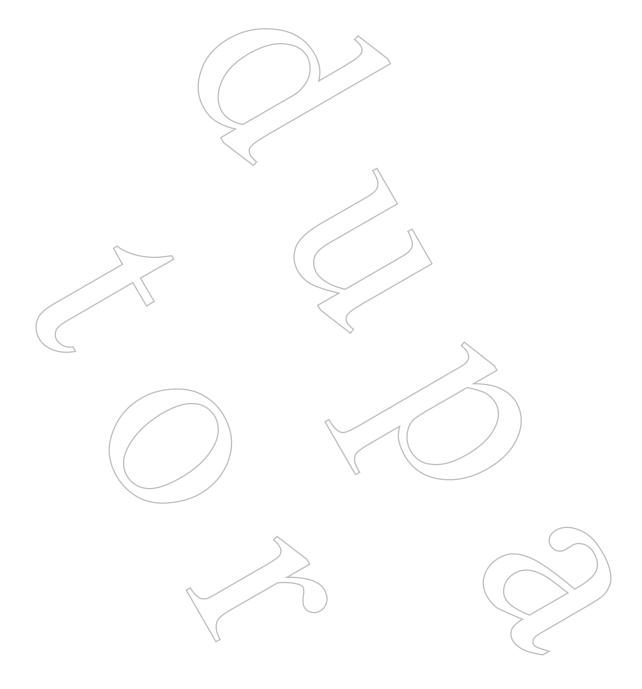
RE	F. NO.	PART NO.	DESCRIPTIO	V
	101	X-899HV3T001	HOLDER,ANODE WIRE	
	102	X-752WSAA006	PLATE,SHIELD	
	103	X-752WSAA008	SHIELD,CASE	
	104	X-763WAA0228	HEAT SINK	
	105	X-763WAA0230	HEAT SINK	
	106	X-763WSA0020	HÉAT SINK	
	107	X-8990TPA002	COATING CLIP	
	108	X-800WR0A002	SHEET,CRT SUPPORT	
	109	X-763WAA0229	HEAT SINK	
	110	X-711WPD0590	PLATE, FRONT	
	111	X-713WPA0143	GUIDE, REMOCON	
	112	X-713WPA0142	GLÁSS,LÉD	
	113	X-7235380002	BADGE,BRAND	
	114	X-735WPA0541	BUTTON,BASE	
	115	X-735WPB0106	BUTTON,FRAME	
	116	X-735WPB0114	BUTTON, POWER	
1/	117	X-702WPA0825	CABINET,BACK	
	118	X-741WUAA001	SPRING, EARTH	
	119	X-769WSA0004	WASHER	9.5x22xT3
	120	X-800WQ00038	FELT SHEET	18x270xT0.5
	121	PDW-1759	FRONT CABINET	
	201/	X-8117540A64	SCREW,TAPPING(B0) TRUSS	4x16
	202	X-8109630802	SCREW, TAP TITE(B) BRAZIER	3x8
	203	X-8111J50D04	SCREW, TAPPING(A) GW22	5x40
	204	X-8117330A04	SCREW,TAPPING(B0) FLAT	3x10
	205	X-8110630A04	SCREW, TAP TITE(P) BRAZIER	3x10
	206	X-8109I30A04	SCREW,TAP TITE(B) WH7	3x10

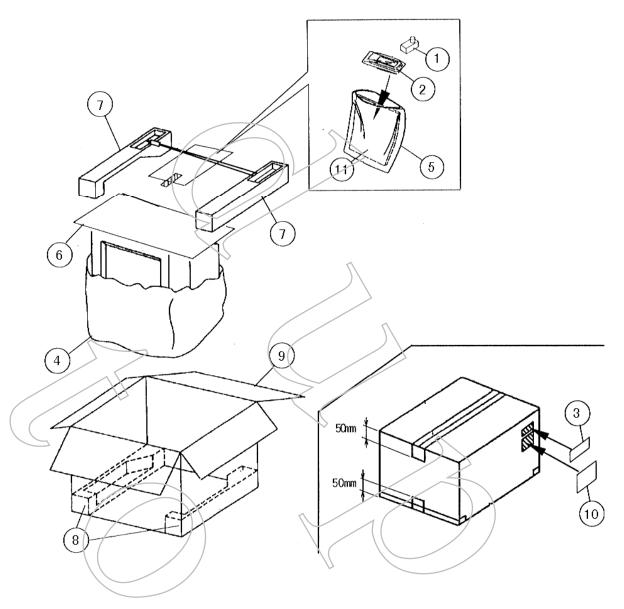
Page	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	1
Fill S. SENSENSEZ SC 28 PM STOCK					1	RESISTORS	
1000 Maringometrical No. Company No.							
RODE STREET STR							
REDIT Commission Commissi							
R150							
RT00							
RECORD SERVICE SERVI							
Refine							
R150							
R110			RC 4.7K OHM 1/10W				
R114	R110	X-R803R9472J	RC 4.7K OHM 1/16W			R,CEMENT	6.8K OHM 7W
R145							
R115						110	
R117							
R119			RC 270 OHM 1/16W				
R119			IRC TOK OHM 1/16W				
R1190							
R720							
R722							
R122 X R803984723 RC 4.7% OHM 159W R442 X R803984723 RC 190 OHM 159W R442 X R803984723 RC 4.7% OHM 159W R443 X R802141031 RC 190 OHM 149W R443 X R803884723 RC 190 OHM 149W R443 X R803884723 RC 190 OHM 149W R443 X R803884723 RC 190 OHM 149W R443 X R803898023 RC 190 OHM 149W R443 X R8038980403 RC 190 OHM 149W R443 X R803898042 RC 190 OHM 149W R444 X R803898042 RC 19							
R122			RC 4.7K OHM 1/16W	△\ R442	X-R65582680J		
F125			RC 4.7K OHM 1/16W		X-R002T4103J	RC	
R126							
R122							
R128							
R130 R1803R91012 RC							
R130							
R131							
R132							
R133					X-R002T41031		
R135 X-R801R72031 RC							
R136 R78967894473 RC 390K OHM 144W 5612 X-R002749221 RC 82K OHM 144W R138 X-R003894821 RC 13K OHM 144W R514 X-R002722231 RC 22K OHM 144W R138 X-R003894821 RC 13K OHM 146W R514 X-R002722231 RC 22K OHM 122W R140 X-R003894021 RC 14K OHM 146W R516 X-R002722231 RC 22K OHM 122W R142 X-R003894021 RC 14K OHM 146W R516 X-R00272231 RC 14K OHM 144W R514 X-R00272231 RC 12K OHM 142W R142 X-R003894031 RC 10K OHM 146W R519 X-R002744731 RC 12K OHM 144W R519 X-R002744501 RC 15K OHM 146W R529 X-R00274401 RC 15K OHM 146W R52	R134		10K OHM 1/10W	R509			10K OHM 1/4W
H137 X=f002144731 Ric							
R138 X-R003P8462J RC							
R199 R898/R91021 RC							
R140							
R141							
R142 XP803R9103J RC							
R443 X-R803R91031 RC 10K OHM 1/16W Rs20 X-R802T21544 RC 150K OHM 1/2W R211 X-R803R91041 RC 100K OHM 1/16W Rs21 X-R803R91041 RC 100K OHM 1/16W Rs22 X-R802T41011 RC 100 OHM 1/16W Rs21 X-R803R91041 RC 100 OHM 1/16W Rs21 X-R803R91041 RC 100 OHM 1/16W Rs22 X-R802T41011 RC 20 OHM 1/16W Rs21 X-R803R93311 RC 20 OHM 1/16W Rs21 X-R803R93311 RC 220 OHM 1/16W Rs22 X-R802T41021 RC 47K OHM 1/16W Rs21 X-R803R93211 RC 47K OHM 1/16W Rs22 X-R802T41021 RC 47K OHM 1/4W Rs21 X-R803R93211 RC 47K OHM 1/16W Rs22 X-R802T41021 RC 47K OHM 1/4W Rs28 X-R803R91021 RC 47K OHM 1/4W Rs28 X-R803R							
R210							
R212 X_R803R9101J RC							
R213							
R216 X-R803R99231 RC 220 OHM 1/16W R526 X-R00214472J RC 4 7K OHM 14W R301 X-R803R9101J RC 100 OHM 1/16W R528 X-R00274103J RC 10K OHM 14W R528 X-R00274103J RC 10K OHM 14W R528 X-R00274103J RC 10K OHM 14W R529 X-R00274103J RC 10K OHM 14W R529 X-R00274103J RC 11K OHM 14W R529 X-R0027432J RC 11K OHM 14W R529 X-R0027432J RC 330 OHM 14W R529 X-R0027432J RC X-R003R9663J RC S6K OHM 1/16W R529 X-R0027422J RC X-R003R9602J RC K OHM 1/16W R529 X-R0027422J RC X-R003R9602J RC K OHM 1/16W R529 X-R0027422J RC X-R003R9602J RC K OHM 1/16W R529 X-R0027422J RC X-R003R9602J RC							
RC							
R301							
R302							
R303							
R304 X_R803R92731 RC 27K OHM 1/16W R531 X_R802R92531 RC 330 OHM 1/4/W R306 X_R803R95631 RC 56K OHM 1/16W R536 X_R802R925631 RC 56K OHM 1/16W R536 X_R802R925631 RC 22K OHM 1/2/W R536 X_R802R92521 RC 22C OHM 1/2/W R311 X_R803R91021 RC 1K OHM 1/16W R536 X_R802R92221 RC 22C OHM 1/4/W R313 X_R803R91011 RC 100 OHM 1/16W R536 X_R803R9221 RC 22C OHM 1/4/W R332 X_R803R91011 RC 100 OHM 1/16W R601 X_R803R98221 RC 22C OHM 1/4/W R352 X_R803R91011 RC 100 OHM 1/16W R601 X_R803R98221 RC 8.2K OHM 1/16W R357 X_R802R912101 RC 120K OHM 1/16W R612 X_R803R98222 RC 4.7K OHM 1/16W R357 X_R802R912101 RC 100 OHM 1/2W R615 X_R803R992122 RC 2.2K OHM 1/16W R359 X_R802T21011 RC 100 OHM 1/2W R616 X_R803R93R9222 RC 2.2K OHM 1/16W R359 X_R802T21011 RC 100 OHM 1/2W R616 X_R803R93R9151 RC 1.8M OHM 1/16W R610 X_R802T4151 RC 1.8M OHM 1/16W R617 X_R803R9101 RC 1.8M OHM 1/16W R618 X_R803R9101 RC 1.0W OHM 1/16W R619 X_R803R9101 RC 1.0W OHM 1/16W R622 X_R803R9106 RC 1.0W OHM 1/16W R622 X_R803R9105 RC 1.0W OHM 1/16W R623 X_R803R9103 RC 1.0W OHM 1/16W R624 X_R803R9103 RC 1.0W OHM 1/16W R625 X_R803R9103 RC 1.0W OHM 1/16W R626 X_R803R9103 RC 1.0W OHM 1/16W R629 X_R803R9123 RC 1.0W OHM 1/16W R629 X_R803R9123 RC 1.0W OHM 1/16W R629 X_R803R9123 RC 1.0W OHM 1/16W R629 X_R80							
R306 X_R803R9563J RC 56K OHM 1/16W A R532 X_R02718AR82J R_METAL OXIDÉ 0.82 OHM 2W R317 X_R803R9102J RC 1K OHM 1/16W R536 X_R002T1222J RC 22K OHM 1/2W R318 X_R803R9102J RC 1K OHM 1/16W R537 X_R002T1222J RC 220 OHM 1/4W R319 X_R803R9102J RC 1K OHM 1/16W R537 X_R002T1222J RC 220 OHM 1/4W R310 X_R803R9102J RC 100 OHM 1/16W R601 X_R803R982/2J RC 8.2K OHM 1/16W R352 X_R002T4882J RC 6.8K OHM 1/4W R603 X_R803R982/2J RC 4.7K OHM 1/16W R356 X_R803R9124J RC 120K OHM 1/12W R612 X_R803R9472J RC 4.7K OHM 1/16W R357 X_R002T2101J RC 100 OHM 1/2W R615 X_R803R9472J RC 2.2K OHM 1/16W R359 X_R002T2101J RC 100 OHM 1/2W R615 X_R803R9185J RC 1.8M OHM 1/16W R403 X_R002T4103J RC 100 OHM 1/4W R616 X_R803R9185J RC 1.8M OHM 1/16W R403 X_R002T4103J RC 10K OHM 1/4W R618 X_R803R9101J RC 100 OHM 1/16W R404 X_R002T4151J RC 150 OHM 1/4W R619 X_R803R9101J RC 4.00 OHM 1/16W R404 X_R002T4151J RC 150 OHM 1/4W R619 X_R803R9101J RC 4.00 OHM 1/16W R405 X_R803R9101J RC 4.00 OHM 1/16W R406 X_R803T282J R RETAL 22K OHM 1/6W R622 X_R803R9102J RC 4.00 OHM 1/16W R407 X_R802T212727 R RETAL 1.2 OHM 1/2W R622 X_R803R9102J RC 4.00 OHM 1/16W R408 X_R803R9562J RC 820 OHM 1/2W R629 X_R803R9102J RC 4.00 OHM 1/16W R409 X_R803R9562J RC 56K OHM 1/6W R629 X_R803R9103J RC 4.00 OHM 1/16W R401 X_R802T2231J RC 56K OHM 1/6W R629 X_R803R9103J RC 4.00 OHM 1/16W R402 X_R803R9562J RC 56K OHM 1/2W R629 X_R803R9103J RC 4.00 OHM 1/16W R403 X_R803R9562J RC 56K OHM 1/16W R629 X_R803R9103J RC 4.00 OHM 1/16W R404 X_R802T221273J RC 56K OHM 1/16W R629 X_R803R9103J RC 4.00 OHM 1/16W R401 X_R802T2213J RC 56K OHM 1/16W R629 X_R803R9103J RC 56K OHM 1/16W R402 X_R803R9562J RC 56K OHM 1/16W R629 X_R803R9123J RC 56K OHM							
R307 X_R803R95653 RC 56K OHM 1/16W R534 X_R803R9102J RC 1K OHM 1/16W R537 X_R803R9102J RC 1K OHM 1/16W R537 X_R803R9102J RC 16 OHM 1/16W R537 X_R803R9101J RC 100 OHM 1/16W R601 X_R803R9822J RC 8.2K OHM 1/16W R536 X_R803R912J RC 470 OHM 1/16W R601 X_R803R9822J RC 8.2K OHM 1/16W R602 X_R803R9822J RC 470 OHM 1/16W R603 X_R803R9822J RC 470 OHM 1/16W R603 X_R803R9822J RC 470 OHM 1/16W R603 X_R803R912J RC 470 OHM 1/16W R612 X_R803R9472J RC 470 OHM 1/16W R612 X_R803R9472J RC 470 OHM 1/16W R615 X_R803R9472J RC 470 OHM 1/16W R615 X_R803R9472J RC 470 OHM 1/16W R615 X_R803R9472J RC 2.2K OHM 1/16W R615 X_R803R9472J RC 2.2K OHM 1/16W R615 X_R803R9472J RC 2.2K OHM 1/16W R615 X_R803R942ZJ RC 2.2K OHM 1/16W R616 X_R803R9492ZJ RC 2.2K OHM 1/16W R616 X_R803R945ZJ RC 1.8M OHM 1/16W R616 X_R803R945ZJ RC 1.8M OHM 1/16W R617 X_R803R9101J RC 100 OHM 1/16W R618 X_R803R9101J RC 100 OHM 1/16W R618 X_R803R9101J RC 100 OHM 1/16W R619 X_R803R9101J RC 100 OHM 1/16W R622 X_R803R9102J RC 100 OHM 1/16W R624 X_R803R9123J RC 100 OHM 1/16W R625 X_R803R9123J RC 100 OHM 1/16W R631 X_R803R912							
R312		X-R803R9563J	RC 56K OHM 1/16W	R534	X-R002T2223J	RC /	22K OHM 1/2W
R313 X_R803R9101J RC 100 OHM 1/16W R601 X_R803R9822J RC 470 OHM 1/16W R352 X_R002T4682J RC 68K OHM 1/16W R603 X_R002T4471J RC 470 OHM 1/16W R612 X_R803R9472J RC 470 OHM 1/16W R356 X_R003R9124J RC 100 OHM 1/2W R615 X_R803R9472J RC 470 OHM 1/16W R357 X_R002T2101J RC 100 OHM 1/2W R615 X_R803R9472J RC 2.2K OHM 1/16W R359 X_R002T2101J RC 100 OHM 1/2W R616 X_R803R9222J RC 2.2K OHM 1/16W R401 X_R402T2101J RC 100 OHM 1/2W R616 X_R803R9123J RC 1.8M OHM 1/16W R617 X_R803R9101J RC 100 OHM 1/16W R618 X_R803R9101J RC 100 OHM 1/16W R619 X_R803R9101J RC 100 OHM 1/16W R620 X_R803R9121J RC 100 OHM 1/16W R620 X_R803R9123J RC 100 OHM 1/16W R620 X_R803R9123			RC 1K OHM 1/16W				
R352 X-R002T4682J RC 6 8 K OHM 14W R603 X-R002T4471J RC 470 OHM 14W R356 X-R003R9124J RC 120K OHM 11/6W R612 X-R803R9472J RC 4.7K OHM 11/6W R357 X-R002T2101J RC 100 OHM 172W R615 X-R803R9422J RC 2.2K OHM 11/6W R359 X-R002T2101J RC 100 OHM 172W R616 X-R803R9185J RC 1.8M OHM 11/6W R617 X-R803R9185J RC 1.8M OHM 11/6W R617 X-R803R9161J RC 1.0M OHM 11/6W R617 X-R803R9101J RC 1.0M OHM 11/6W R618 X-R803R9101J RC 1.0M OHM 11/6W R619 X-R803R9102J RC 1.0M OHM 11/6W R622 X-R803R9102J RC 1.0M OHM 11/6W R629 X-R803R9102J RC 1.0M OHM 11/6W R629 X-R803R9102J RC 1.0M 11/6W R629 X-R803R9122J RC 1.0M 11/6W R629 X-R8			RC 1K OHM 1/16W				
R356 X.R803R9124J RC 120K OHM 1/16W R612 X.R803R9472J RC 4.7K OHM 1/16W R357 X.R00212101J RC 100 OHM 1/2W R615 X.R803R9472J RC 2.2K OHM 1/16W R359 X.R00212101J RC 100 OHM 1/2W R616 X.R803R9185J RC 1.8M OHM 1/16W Δ A401 X.R42516104H R.ME1AL 100K OHM 1/6W R617 X.R803R9101J RC 100 OHM 1/16W R403 X.R00274103J RC 10K OHM 1/4W R618 X.R803R9101J RC 100 OHM 1/16W R404 X.R00274151J RC 150 OHM 1/4W R618 X.R803R9101J RC 400 OHM 1/16W R405 X.R4X516223F R.METAL 22K OHM 1/16W R629 X.R803R9105J RC 100 OHM 1/16W R406 X.R402512281 RC 820 OHM 1/2W R622 X.R803R9105J RC 100 OHM 1/16W R407 X.R42672182F R.METAL 1.2 OHM 1/2W R624 X.R803R9103J RC 10K OHM 1/16W </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
R357 X-R00212101J RC							
R359 X-R002T2101J RC 100 OHM 1/2W R616 X-R803R9185J RC 1.8M OHM 1/16W A H401							
Δh R401 X-R42516104H R.ME.I AL 100 KOHM 1/6W R617 X-R803R9101J RC 100 OHM 1/16W R403 X-R00274103J RC 10K OHM 1/4W R618 X-R803R9101J RC .400 OHM 1/16W R404 X-R00271251J RC 150 OHM 1/4W R619 X-R803R9105J RC .100 OHM 1/16W Δh R406 X-R4X516223F R.METAL 22K OHM 1/2W R622 X-R803R9105J RC .400 OHM 1/16W R406 X-R00272821J RC 820 OHM 1/2W R623 X-R803R9105J RC .1K OHM 1/16W R407 X-R42512R2F RMETAL 1.2 OHM 1/2W R624 X-R803R9103J RC .1K OHM 1/16W Δh R408 X-R4X516453F R.METAL .15K OHM 1/16W .8625 X-R803R9123J RC .200 OHM 1/16W R410 X-R803789562J RC .56K OHM 1/16W .8629 X-R803R9123J RC .12K OHM 1/16W R411 X-R002712331J RC .10W OHM 1/16W .8630 X-R803R91							
R403 X-R002T4103J RC 10K OHM 1/4W R618 X-R803R9101J RC 400 OHM 1/16W R404 X-R002T4151J RC 150 OHM 1/4W R619 X-R803R9101J RC 100 OHM 1/16W Δ R405 X-R4X5T6223F RMETAL 22K OHM 1/6W R622 X-R803R9106J RC 100 OHM 1/16W R406 X-R002T2821U RC 820 OHM 1/2W R623 X-R803R9102J RC 1K OHM 1/16W R407 X-R425T21R2F RMETAL 1 2 OHM 1/2W R623 X-R803R9102J RC 10K OHM 1/16W A R408 X-R455T6153F RMETAL 15K OHM 1/6W R625 X-R803R922J RC 220 OHM 1/16W R410 X-R803R9562J RC 56K OHM 1/16W R625 X-R803R9103J RC 10K OHM 1/16W R410 X-R803R9562J RC 56K OHM 1/16W R629 X-R803R9103J RC 10K OHM 1/16W R411 X-R803R9562J RC 330 OHM 1/16W R630 X-R803R9123J RC 12K OHM 1/16W							
Δh R405 X-R4X5T6/223F R.METAL 22K OHM 1/6W R622 X-R803R9106J RC 40M_OHM 1/16W R406 X-R002T2821J RC 820 OHM 1/2W R623 X-R803R9102J RC 1K OHM 1/16W R407 X-R425T2R2F RMETAL 1.2 OHM 4/2W R624 X-R803R9103J RC 10K OHM 1/16W Δh R408 X-R4X5T6153F R.METAL 15K OHM 1/6W R625 X-R803R922JJ RC 220 OHM 1/16W R410 X-R003R9562J RC 56K OHM 1/26W R629 X-R803R9123J RC 10K OHM 1/16W R411 X-R002T2331J RC 13X OHM 1/16W R630 X-R803R9123J RC 12X OHM 1/16W R412 X-R002T2561J RC 160 OHM 1/2W R631 X-R803R9123J RC 12X OHM 1/16W R413 X-R00212821J RC 820 OHM 1/2W R634 X-R4X516472F RMETAL 4.7K OHM 1/16W ΔR414 X-R00212827J RC 820 OHM 1/2W R634 X-R403689322J RC							
R406 X-R002T2821J RC 820 OHM 1/2W R623 X-R803R9102J RC 1K OHM 1/16W R407 X-R426T21R2F RMETAL 1.2 OHM 1/2W R624 X-R803R9103J RC 10K OHM 1/16W R408 X-R4X5T6153F RMETAL 15K OHM 1/6W R625 X-R803R9221J RC 220 OHM 1/16W R409 X-R803R9562J RC 5-6K OHM 1/16W R629 X-R803R9103J RC 10K OHM 1/16W R410 X-R002T2331J RC 330 OHM 1/16W R411 X-R002T4101J RC 100 OHM 1/4W R631 X-R803R9123J RC 12K OHM 1/16W R412 X-R002T2564J RC 5-60 OHM 1/2W R632 X-R803R9123J RC 3.3K OHM 1/16W R413 X-R002T2821J RC 820 OHM 1/2W R632 X-R803R9123J RC 3.3K OHM 1/16W R414 X-R803T6682F RMETAL 6-8K OHM 1/6W R637 X-R803R9123J RC 3.3K OHM 1/16W R414 X-R805T21702J RC 12K OHM 1/6W R637 X-R803R9123J RC 12K OHM 1/16W R414 X-R805T21702J RC 12K OHM 1/16W R637 X-R803R9123J RC 12K OHM 1/16W R414 X-R805T21702J RC 12K OHM 1/16W R637 X-R803R9123J RC 12K OHM 1/16W R415 X-R805T21702J RC 12K OHM 1/16W R637 X-R803R9123J RC 12K OHM 1/16W R416 X-R805T21702J RC 12K OHM 1/16W R637 X-R803R9123J RC 12K OHM 1/16W R416 X-R805T21702J RC 12K OHM 1/16W R637 X-R803R9123J RC 12K OHM 1/16W R417 X-R805T21702J RC 12K OHM 1/16W R637 X-R803R9123J RC 12K OHM 1/16W R418 X-R805T818703J RC 12K OHM 1/16W R637 X-R803R9123J RC 12K OHM 1/16W R637							
R407 X.R426T21R2F R.METAL 1.2 OHM-1/2W R624 X.R803R9103J RC 10K OHM 1/16W A R408 X.R4X5T6153F R.METAL 15K-OHM 1/6W R625 X.R803R9122JJ RC 220 OHM 1/16W R410 X.R803R9562J RC 56K OHM 1/16W R629 X.R803R9123J RC 10K OHM 1/16W R411 X.R802T2131J RC 330 OHM 1/2W R630 X.R803R9123J RC 12K OHM 1/16W R411 X.R802T2564J RC 100 OHM 1/4W R631 X.R803R9123J RC 12K OHM 1/16W R412 X.R802T2564J RC 560 OHM 1/2W R632 X.R803R932J RC 3.3K OHM 1/16W R413 X.R802T2564J RC 820 OHM 1/2W A R634 X.R4X516472F R.METAL 4.7K OHM 1/16W A R414 X.R4X5T6682F R.METAL 6.8K OHM 1/6W R637 X.R803R9123J RC 12K OHM 1/16W R416 X.R802T2102J RC 12K OHM 1/16W R638 X.R803R9123J RC 12K OHM 1/16W R638 X.R803R9123J RC 12K OHM 1/16W R639 X.R803R9123J RC 12K OHM 1/16W R630 X.R803R9123J RC 12K OHM 1/16W R639 X.R803R			R,METAL 22K OHM 1/6VV				
Δh R408 X-RAX5T6453F R.METAL 15K-OFM 1/6W R625 X-R803R9221J RC 220 OHM 1/19W R410 X-R803R9562J RC 56K OHM 1/16W R629 X-R803R9123J RC 10K OHM 1/16W R410 X-R802T2331J RC 12K OHM 1/16W R630 X-R803R9123J RC 12K OHM 1/16W R411 X-R802T2564J RC 560 OHM 1/2W R631 X-R803R9123J RC 12K OHM 1/16W R413 X-R80212821J RC 660 OHM 1/2W A R634 X-R4X516682F RMETAL 4.7K OHM 1/16W Δ R414 X-R4X516682F R.METAL 6.8K OHM 1/6W R637 X-R803R9123J RC 4.7K OHM 1/16W R416 X-R00212102J RC 12K OHM 1/16W R637 X-R803R9123J RC 4.7K OHM 1/16W							
R409 X_R803R9562J RC 5.6K OHM 1/16W R629 X_R803R9103J RC 10K OHM 4/16W							
R410 X-R002T2331J RC 330 OHM 1/2W R630 X-R803R9123J RC 12k OFM 1/16W R411 X-R002T4101J RC 100 OHM 1/2W R631 X-R803R9123J RC 12K OHM 1/16W R412 X-R002T2561J RC 560 OHM 1/2W R632 X-R803R9332J RC 3 3K OHM 1/16W R413 X-R00212821J RC 820 OHM 1/2W A 634 X-R4X516472F RME1AL 4 7K OFM 1/6W A R414 X-R4X5T6682F RMETAL 6 8K OHM 1/6W R637 X-R803R9123J RC 12K OHM 1/16W R416 X-R00212102J RC 12K OHM 1/16W R638 X-R803R9123J RC 12K OHM 1/16W							
R411 X-R002T4101J RC 100 OHM 1/4W R631 X-R803R9123J RC 12K OHM 1/16W R412 X-R002T2561J RC 560 OHM 1/2W R632 X-R803R9323J RC 3.3K OHM-1/16W R413 X-R00212821J RC 820 OHM 1/6W R637 X-R4X516472H R, ME1AL 4.7K OHM 1/6W A R414 X-R4X5T6682F R, METAL 6.8K OHM 1/6W R637 X-R803R9123J RC 12K OHM 1/16W R416 X-R00212102J RC 1K OHM 1/2W R638 X-R803R9123J RC 12K OHM 1/16W							
R412 X-R002T2561J RC 560 OHM 1/2W R632 X-R803R9332J RC 3.3K OHM 4/16W R413 X-R002Y2821J RC 820 OHM 1/2W Δ R634 X-R4X5 16472F R,ME1AL 4.7K OHM 1/6W Δ R414 X-R4X5T6682F R,METAL 6.8K OHM 1/6W R637 X-R803R9123J RC 12K OHM 1/16W R416 X-R002Y2102J RC 12K OHM 1/16W R638 X-R803R9123J RC 12K OHM 1/16W							
Re13							
Δ R414 X-R4X5T6682F RMETAL 6.8K OHM 1/6W R637 X-R803R9123J RC 12K OHM 1/16W R416 X-R00212102J RC 12K OHM 1/16W R638 X-R803R9123J RC 12K OHM 1/16W							
	⚠ R414	X-R4X5T6682F	R,METAL 6.8K OHM 1/6W	R637	X-R803R9123J	RC	12K OHM 1/16W
L∆ R417 X-R4X5162Z3F R,METAL ✓ 2ZK OHM 1/6W R651 X-R803R9271J RC \ (270 OHM 1/16W							
	∆∆ R417	X-R4X5T6223F	JR,METAL ✓ 22K OHM 1/6W	R651	JX-R803R9271J	IRC \	270 OHM 1/16W

REF. NO.	PART NO.	DESCRIPTION	I RE	EF. NO.	PART NO.	DESCRIPTION	
	17411101	RESISTORS			.,	CAPACITORS	
R652	X-R803R9221J	RC 220 OHM 1/16W		C306	X-CS0PB0413K	cc	0.001 UF 50V B
R653	X-R801R7561J	RC 560 OHM 1/10W		C307	X-CS0PCH4Q1J	cc	47 PF 50V CH
R655	X-R803R9331J	RC 330 OHM 1/16W		C308	X-E524U2100D	CE	10 UF 16V
R658	X-R803R9221J	RC 220 OHM 1/16W		C351	X-E5EZT2471M	CE	470 UF 16V
R659 R660	X-R803R9103J X-R002T4510J	RC 10K OHM 1/16W RC 51 OHM 1/4W		C352 C353	X-E02LU5100M X-E00NU52R2M	CE CE	10 UF 50V 2.2 UF 50V
R701	X-R803R9473J	RC 47K OHM 1/16W		C356	X-E50HU2470M	CE	47 UF 16V
R702	X-R803R9473J	RC 47K OHM 1/16W		C358	X-CS0PB04U3K	lcc	0.0068UF 50V B
R703	X-R002T4821J	RC 820 OHM 1/4W		C359	X-E02LU2101M	CE	100 UF 16V
R704	X-R002T4821J	RC 829 OHM 1/4W) /	C360	X-E50HU2470M	CE	47 UF 16V
R705	X-R002T4750J	RC 75 OFM 1/4W		C361	X-E00NU42R2M	CE	2.2 UF 35 V
R706 R707	X-R002T4750J X-R803R9101J	RC 75 OHM 1/4W RC 100 OHM 4/16W		C362 C401	X-E00NU42R2M X-E02LF4102M	CE CE	2.2 UF 35 V 1000 UF 35V
R708	X-R803R9101J	RC 100 OHM 1/16W		C403	X-E02LU5100M	CE	10 UF 50V
R709	X-R803R9101J	RC 100 OHM 1/16W		C404	X-CS0PB0414K	cc	0.01 UF 50V B
R710	X-R803R9101J	RC 100 OHM 1/16W		C405	X-E5EZTD010M	CE	1 UF 250V
R711	X-R002T4101J	RC 100 OHM 1/4W		C406	X-C0JTB05H2K	cc	220 PF 500V B
R712 R713	X-R803R9272J X-R803R9472J	RC 2.7K OHM 1/16W RC 4.7K OHM 1/16W		C407 C410	X-CS0PB04E4K X-E524U54R7D	CC CE	0.015 UF 50V B 4.7 UF 50V
R751	X-R803R9102J	RC 1K OHM 1/16W		C411	X-P1S3T0103J	CP	0.01 UF 50V
R752	X-R803R9561J	RC 560 OHM 1/16W		C412	X-E02LU5010M	CE	1 UF 50V
R759	X-R803R9101J	RC 100 OHM 1/16W		C414	X-E02LU4101M	CE	100 UF 35V
R760	X-R803R9101J	RC 100 OHM 1/16W		C416	X-P3N1F1562J	CPP	0.0056UF 100V
R802	X-R00214272J	RC 2.7K OHM 1/4W		C417	X-E5EZ154R7M	CE	4.7 UF 50V
∆ R803 R804	X-R3X18A153J X-R002T4272J	R,METAL OXIDE 15K OHM 2W RC 2.7K OHM 1/4W) \	C418 C420	X-E02LF3102M X-C0JTB0513K	CE CC	1000 UF 25V 0.001 UF 500V B
Æ R805	X-R3X18A153J	R,METAL OXIDE 2.7K OHM 1/4W	- X `	C420	X-E02LU54R7M	CE	4.7 UF 50V
R806	X-R002T4272J	RC 2.7K OHM 1/4W		C427	X-E5EZT5100M	CE	10 UF 50V
⚠ R807	X-R3X18A153J	R,METAL OXIDE 15K OHM 2W		C430	X-P613T1334J	CMPL	0.33 UF 100V TF
R809	X-R803R9122J	RC 1.2K OHM 1/16W		C434	X-E02LU8220M	CE	22 UF 100V
R811	X-R803R9122J	RC 1.2K OHM 1/16W RC 476 OHM 1/16W		C435 C437	X-P613T1104J	CMPL	0.1 UF 100V TF
R813 R814	X-R803R9471J X-R803R9122J	RC 470 OHM 1/16W RC 1.2K OHM 1/16W		C440	X-P447F2394J X-C0JTB05H3K	CMPP ICC	0.39 UF 200V FHS 0.0022UF 500V B
R815	X-R803R9471J	RC 470 OHM 1/16W		C442	X-C0JLYR713K	lcc	0.001 UF 2KV YR
R816	X-R303R9471J	RC 470 CHM 1/16W		C443	X-P4N8FJ562H	CMPP	0.0056UF 1.25KV
R817	X-R803R9331.J	RC 330 OHM 1/16W		C446	X-E5EZTB010M	CE	1 UF 160V
R818	X-R803R9331J	RC 330 OHM 1/16W		C448	X-E5EZTD100M	CE	10 UF 250V
R819	X-R903R9331J	RC 330 OHM 1/16W CAPACITORS		C501 C502	X-P2472B224M X-P1S3T0223J	CMP CP	0.22UF 275V PHE840 0.022 UF 50V
C002	X-E02LU5010M	CE 1 UF 50V		C503	X-C0JLYR7Q2K	lcc	470 PF 2KV YR
C003	X-CS0PB0215K	CC 0.1 UF 16V B		C504	X-P1S3T0103J	CP	0.01 UF 50V
C004	X-E02LU0471M	CE 470 UF 6.3V		C505	X-E52N0H331M	CE	330 UF 400V USC
C008	X-E02LU52R2M	CE 2.2 UF 50V CC 0.1 UF 16V B		C506	X-C13HB07H3K	cc cc	0.0022UF 2KV B
6102	X-CS0PB0215K X-CS0PB0414K	CC 0.1 UF 16V B CC 0.01 UE 50V B		C507 C509	X-C13HB07H3K X-CS0PB04U3K	cc	0.0022UF 2KV B 0.0068UF 50V B
C103	X-E51A0P104Z	CE 0.1 F 5.5V		C510	X-E02LU2470M	CE	47 UF 16V
C104	X-E50HU52R2M	CE 2.2 UF50V		C511	X-E02LU5470M	CE	47 UF 50V
C105	X-E02LU0471M	CE 470 UF 6.3V		C512	X-C0JTB05Q2K	lcc	470 PF 500V B
C106 C107	X-CS0PB0215K X-CS0PB03L4K	CC 0.1 UF 16V B CC 0.033 UF 25V B		C514 C515	X-CS0PB0414K X-E5EZF3102M	CC CE	0.01 UF 50V B 1000 UF 25V
C107	X-CS0PCH4G1J	CC 0.033 UF 25V B CC 18 PF 50V CH		C516	X-C0JTB05Q2K	cc	470 PF 500V B
C109	X-CS0FCH4G1J	CC 18 PF 50V CH		C517	X-C0JLYR7Q2K	loc \	470 PF 2KV YR
C110	X-E02LU5010M	CE 1 UF 50V		C519	X-E5EZF2222M	ĠĒ \	2200 UF 16V
C111	X-E50HU5010M	CE 1 UF 50V		C520	X-C0JTB05Q2K	Jcc	470 PF 500V B
C112	X-CS0PB04W3K	CC 0.0082UF 50V B		C521	X-E62NFC221M	CE /	220 UF 200V
C113 C114	X-CS0PB04H2K X-CS0PB04H2K	CC 220 PF 50V B CC 220 PF 50V B		C523 C524	X-E5EZT2101M X-E5EZT2101M	CE /	100 UF 16V 100 UF 16V
C115	X-CS0PB0413K	CC 0.001 UF 50V B		C525	X-CB3930M13M	CC	0.001 UF 250V
C119	X-CHG0SL4K1J	CC 27 PF 50V SL		C527	X-CB3930M13M	cc	0.001 UF 250V
C121	X-E50HU5010M	CE / 1 UF 50V	7	C528	X-E5EZT2470M	CE	47 UF 16V
C123	X-E50HU2100M	CE 10 UF 16V		C529	X-E5EZF2222M	CE	2200 UF 16V
C124 C203	X-P6M910474J X-CS0PB0414K	CMPL 0.47 UF 50V TF CC 0.01 UF 50V B		C530 C531	X-E5EZT2101M X-E5EZT0102M	CE CE	100 UF 16V 1000 UF 6.3V
C203	X-CS0PB04H4K	CC 0.022 UF 50V B		C532	X-E5EZU2101M	CE	100 UF 16V
C205	X-CS0PB0414K	CC 0.01 UF 50V B		C533	X-E5EZU1331M	CE	330 UF 10V
C206	X-CS0PB0414K	CC 0.01 UF 50V B	Δ	C535	X-CB3930M13M	cc	0.001 UF 250V
C207	X-CS0PB0414K	CC 0.01 UF 50V B		C536	X-C0JLYR713K	CC	0.001 UF 2KV YR
C208	X-E02LU0471M X-CS0PB0215K	CE 470 UF 6.3V CC 8.1 UF 16V B			X-E5EZT50R1M	CE CE	0.1 UF 50V
C209 C212	X-E524U5R47D	CC			X-E5EZT8100M X-CS0PB03L4K	ec \	10 UF 100V √0.033 UF 25V B
C213	X-E524U5R47D	CE 0.47 UF 50V			X-CS0PCH4H1J	lcc)	22 PF 50V CH
C216	X-CS0PB04L3K	CC 0.0033UF 50V B		C609	X-E623U50R1D	CE	0.1 UF 50V
C301	X-CS0PF0414Z	CC 0.01 UF 50V F			X-E62KU3330M	CE/	33 UF 25V
C302	X-CS0PB04E4K	CC 0.0 I5 UF 50V B CE 1 UF 50V		C614	X-E02LT1102M	CE	1000 UF 10V
C303 C304	X-E50HU5010M X-CS0PCH4Q1J	CE 1 UF 50V CC 47 PE 50V CH		C615 C616	X-CS0PB0414K X-P6M9T0224J	ICC CMPL	0.01 UF 50V B 0.22 UF 50V TF
C304 C305	X-CS0PB0215K	CC 47 9E50V CH 0.1 UF 16V B		C617	X-P6M910334J	CMPL	0.33 UF 50V TF
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CAPACTIONS	CAPACTORS	REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
C-018	10	REF. NO.	PART NO.		-	REF. NO.	PARI NO.		
Color Colo	CE	C618	X-E524U5010D	CE 1 UF 50V		D528	X-D97U05R61B		M1ZJ5.6B 1-77
COURT COUR	22	C619	X-E524U5010D	CE 1 UF50V		D529	X-D97U05R11B	DIODE,ZENER	MTZJ5.1B T-77
COM COM	22 K. OSSPRINGAN, CC	C620	X-E5EZU2470M			D602	X-D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
COMPANDED COMP	Color	C621					X-D97U05R61B		MTZJ5.6B T-77
Color	CE	C622							MTZJ5.6B T-77
Color Colo	Color Colo	C624	X-CS0PB03Q4K			D609	X-D1VT001330	DIODE,SILICON	1SS133T-77
Color	Description								
CSC2 X.ESSALBOYON CE	1								
Color Colo	10								
COSS C.C.SERIBATEM C.C.	Second S				/ /				
Description Color	COMPRIGNED COL				1 1				
C-030 X-CSSP602F8K CC	DODG SULPHOY SULPH SUL))				
Color	CSGSP-BSZ/SK				/ !				
Color Colo	15 C.SSH-600756K CC				/ L	D803	TX-D1V1001330		1SS1331-77
C707 X.CSBC-1404223 CC					- 1	10.10.1	ly represented		05000101
CORD CORPORATION C. C. C. C. C. C. C. C	202				- 1				
CP04	SEGMENTON CE								
CPMS	06 K.ESSHEZHOM CE 10 UF-16V Δ. CSST KAPSSP75230 C								
C706 X.EGURZY0MM CE	C								
COPPORT X-ESPLEYDIM CE	SECULIZION CE								
C7070	07 X.CSSPE044HK CC 0-10 UF 50V X.CSSPE044HK CC 0-10 UF 50V C-10 UF 50V K.CSSPE042700M CE 10 UF 10V C-10 V K.CSSPE04270M CE 10 V K.CSSPE04370M CE 10 V K.CSSP								
C790	Description Characteristics Characteristic								
C711	10								
C711 XESHIPLITON CE	11				I				
C775	YESEZTS100M CE				I				
C751	15 X CS0P604258K CC				ļ	10/02	M-10/4/10/2034V		INJIVIZOJ4V(TEZ)
6991 XCSSPBBALZK CC 339 PF50V B Q492 XTREYSP\$720 TRANSSTOR SILCON 25024146 RS 6888 XCSSPBBALZK CC 540 PF50V B Q103 XTREYSP\$720 CCMPCUND TRANSIS D1C1141RATHS 6210 XCSSPBBALZK CC 560 PF50V B Q404 XTREYSP\$120 CCMPCUND HARMS D1C1141RATHS 6211 XCSSPBBALZK CC 220 PF 50V B Q402 XTREYSP\$120 HARMSSTOR SILCON 2502418C1446 RS 6211 XCSSPBBALZK CC 220 PF 50V B Q402 XTREYSP\$120 HARMSSTOR SILCON 2502418C1446 RS 6313 XCGREGORIA CC 20 PF 50V B Q402 XTREYSP\$120 HARMSSTOR SILCON 2502418C1446 RS 6313 XCGREGORIA CC 20 PF 50V B Q402 XTREYSP\$20 HARMSSTOR SILCON 2502418C1446 RS 6313 XCGREGORIA XTREYSP\$20 CC COMPOUND TRANSITION TRANSI	0.01 X CS0PB04ZX CC 560 PF 50V B 0.192 X 18Y,19TZR0 TRANSISTORS.LLCON 2SC421XT146 R.S 0.99 X CS0PB04ZX CC 560 PF 50V B 0.103 X-RM/1,05001 COMPOUND TRANSIS DICTI-HTAKTH SIDE TOTAL TRANSISTORS.LLCON 2SC421XT146 R.S 0.031 X-RM/1,05001 COMPOUND TRANSIS DICTI-HTAKTH SIDE TOTAL TRANSISTORS.LLCON 2SC421XT146 R.S 12 X-CS0PB04ZX CC 220 PF 50V B 0.031 X-RM/1,05001 COMPOUND TRANSIS DICTI-HTAKTH SIDE TOTAL TRANSISTORS.LLCON 2SC421XT146 R.S 12 X-CS0PB04ZX CC 220 PF 50V B 0.031 X-RM/1,05001 COMPOUND TRANSIS DICTI-HTAKTH SIDE TOTAL TRANSISTORS.LLCON 2SC421XT146 R.S 12 X-CS0PB04ZX CC 220 PF 50V B 0.031 X-RM/1,05001 COMPOUND TRANSIS DICTI-HTAKTH SIDE TOTAL TRANSISTORS.LLCON 2SC421XT146 R.S 12 X-CS0PB04ZX CC 220 PF 50V B 0.001 EXV B 0.001 EXX B 0				ŀ	0404	TV T9V 12/12/0		28C3413KT146 D 8
C989 X.CSSPBMSZK CC	88 X CS9PB4052X CC								
C899	99						X-1013/2412KU		
CRITI X.CSWPBMSKK	10				- 1				
CSS-99-994-EX CC Z20 PF-50 / B C A X-TOUFG24990 TRANSITOR SILCON ZSC24TX;146 FLS X-CHGT90414X CC Z20 PF-50 / B C A X-TOUFG24990 TRANSITOR SILCON ZSC24[0] E-PAC COMPOUND TRANSI DTC141KRT446 CC C D011UF ZV PN CM CM X-TOUFG24990 TRANSITOR SILCON ZSC24[0] E-PAC CM CM CM CM CM CM CM	11 X CS9PB4PKK CC 220 PF 50V B								
CS 220 PF 50V B	12 XCS9P604H2K								
C819 X.COMENTAN CC 220 PF 59V B C402 X-TRANSISTOR SILCON 25C.221(D.E.P.AC C0010 F 28V PN C403 X-TRANSISTOR SILCON 25C.221(D.E.P.AC C0010 F 28V PN C403 X-TRANSISTOR SILCON 25C.221(D.E.P.AC C0010 F 28V PN C403 X-TRANSISTOR SILCON 25C.2299(S.T.) AA TANSISTOR SILCON 25C.2294 AA TANSISTOR SILCON 25C.	13 X CH-GTB0H42K CC 220 PF 50V B Q402 X-TS030928760 TRANSISTOR SILLCON 2SC221(0.5)-PAC CO 0.0011LF32V BN Q403 X-TSM-3550601 COMPOUND TRANSIS DITCHTRATING D100E SILLCON 11E1-E1C Q4 Q50 X-TSM-351078. D100E SILLCON 11E1-E1C Q5 Q50 X-TSM-351078. D100E SILLCON 11E1-E1C Q5 Q50 X-TSM-351078. D100E SILLCON 15S1331-77 Q50 X-DY/1001300 D100E ZENER MIZJS 88 T-77 Q50 X-TSM-351078. D100E ZE				- 1				
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D122	21	D120	≾-D97U06R81B	DIODE,ZENER MTZJ6.8B T-77		Q505	X-TC5T018154	TRANSISTOR, SILICON	
DIVIDE DIVIDE ZENER DIVIDE ZENER PARTICIPATE PARTICIPATE DIVIDE ZENER PA	X-D97U0R8H1B DIODE_ZENER MIZJ8 BI 1-77 ∆ ∆ ∆ 510 X-1A31016;240 HANSISTOR SITCON 2SA16;24-AA DIODE_ZENER HZ27-1L TD ∆ ∆ ∆ ∆ 511 X-0002500560 PHOTO COUPLER T.P.62(104-GRLF2) A ∆ 511 X-0002500560 T.RANSISTOR SITCON 2SA1037AK1146R, S	D121	X-D97U06R81B			Q506	X-TNYJD05001	COMPOUND TRANSI.	DTC144EKAT146
ΔDM1 X-D94TAZ7011 DIODE_ZENER H2Z7-IL TO Δ Δ511 X-0002500560 PH-0TG COUPLER TLP627[04-GR-LF2) D403 X-D94TA11913 DIODE_SELECON 1151-EEC Q651 X-16YJ1037K0 TRANSISTOR_SELECON 2SC419XT146 R.S D404 X-D97U0406R81B DIODE_SELECON MIZJ.68B T-77 Q651 X-18YJ.2412K0 TRANSISTOR_SELECON 2SC2412XT146 R.S D406 X-D97U0405R61B DIODE_SELECON AU02A-EIC Q751 X-18YJ.2412K0 TRANSISTOR_SELECON 2SC2412XT146 R.S D406 X-D97U0506R8B DIODE_EENER MIZJ.68B T-77 Q801 X-16Z-6024170 TRANSISTOR_SELECON 2SC2417(DE-PRAC D410 X-D97U050301B DIODE_EENER MIZJ.39B 1-77 Q801 X-16Z-6024170 TRANSISTOR_SELECON 2SC2417(DE-PRAC D421 X-D97U050301B DIODE_EENER MIZJ.39B 1-77 Q801 X-16Z-6024170 TRANSISTOR_SELECON 2SC2417(DE-PRAC D501 X-D97U78M1100 DIODE_SELICON RM11C-EIC L020 X-021673101K COIL 0 U U	20	D122	X-D97U06R81B	DIODE,ZENER MTZJ6.8B T-77		Q507	X-TCYT1740S0	TRANSISTOR, SILICON	2SC1740SP TP
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DA03 X.D2WT1011E-10 DIODE_SILGEN 11E-1EIC DIODE_VER MTZI6.8B T-77 Q751 X.T8Y.J241280 TRANSISTOR_SILCON 2SCZ412KT146 R.S COLUMB COL	X-D2WT011E10	L D401							TLP621(D4-GR-LF2)
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1 D405 X-D2WTAU02A0 DIODE_SILLGON AU02A-EIC Q754 X-RXIJ2412RO TRANSISTOR_SILLGON 2SC2412KT146-R S D410 X-D2VTAU02A0 DIODE_SILLGON AU02A-EIC Q801 X-TC3F042170 TRANSISTOR_SILLGON 2SC4217(D,E)-RAC D411 X-D28T10ELS6 DIODE_SELICON MIZJ30B T-77 Q803 X-TC3F042170 TRANSISTOR_SILLGON 2SC4217(D,E)-RAC D421 X-D97U03001B DIODE_ZENER MIZJ30B T-77 MIZJ30B T-77 DIODE_SELICON TRANSISTOR_SILLGON 2SC4217(D,E)-RAC D501 X-D97U03001B DIODE_SELICON RM11C-EIC L001 X-024673101K COIL 100 UH D501 X-D2WTRM11C0 DIODE_SELICON RM11C-EIC L204 X-034602038B COIL VIDEO IFT 3692038 D503 X-D2WTRM11C0 DIODE_SELICON RM11C-EIC L401 X-024679472K COIL 4,7 MH D504 X-D2WTRM11C0 DIODE_SELICON RM11C-EIC L402 X-0241679472K COIL 4,7 MH D505 X-D28T10EN9 DIODE_SELICON	Diode Color Diode Dio								
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1. D501	10				ļ	1,004	Dr 0040704041		400 1111
∆ D502 X-D2WTRM11C0 DIODE SILICON RM11C-EIC L294 X-336020388 COIL VIDEO IFT 3692038 ∆ D503 X-D2WTRM11C0 DIODE SILICON RM11C-EIC L401 X-021679472K COIL 4.7 MH ∆ D505 X-D2WTRM11C0 DIODE SILICON RM11C-EIC L402 X-02160180K COIL 18 UH ∆ D505 X-D2WTZM11C0 DIODE SILICON 18S1331-77 L601 X-02160180K COIL LINE FILTER FE724S-H22502 ∆ D507 X-D97U01801B DIODE ZENER MTZ.148B T-77 L601 X-021673101K COIL LDLGAUSS 8H210005 D507 X-D97W128M01B DIODE, SILICON 1SS1331-77 L602 X-021673101K COIL 100 UH D510 X-D2WXRU2AM0 DIODE, SILICON 1SS1331-77 L602 X-021663101K COIL 100 UH D511 X-D1V1001330 DIODE, SILICON 1SS1331-77 L604 X-021673101K COIL 0 UH D512 X-D28T1GILS DIODE, SILICON 1SS1331-77 L604 </td <td> Diode Silicon RM11C-EIC L204 X-033602038 COIL VIDEO IFT 3602038 </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Diode Silicon RM11C-EIC L204 X-033602038 COIL VIDEO IFT 3602038								
1. D503	X-D2WTRM11C0				I				
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D 5056 X-D28T2/DQN9 Diode SCHOTTRY 210Q99N-TA2B1 Δ L501 X-D29F000074 COIL_LINE FILTER FET2/S-H22502 D506 X-D1V1001330 DiODE_SILICON 1SS1331-77 L601 X-028H210005 COIL_LINE FILTER FET2/S-H22502 D507 X-D97U01801B DiODE_SILICON 1SS1331-77 L601 X-028H210005 COIL 100 UH D508 X-D1V1001330 DIODE_SILICON RIV2AM-EIC L603 X-021L6620K COIL 100 UH D511 X-D1V17001330 DIODE_SILICON 1SS1331-77 L604 X-0216A6101K COIL 100 UH D512 X-D28T21DQN9 DIODE_SILICON 1SS1331-77 L604 X-021673101K COIL 22 UH D514 X-D28T21DQN9 DIODE_SILICON 1SS1331-77 TA01 X-021673101K COIL 100 UH D518 X-D1V1001330 DIODE_SILICON 1SS1331-77 TA01 X-0308Y0018 TRANS_HORI. DRIVE 305Y001 X-0481290754 TRANS_SWITCHING	Diode Schotthy Di				I				
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D507 X-097/D01801B DIODE_ZENER MTZ.J18B T-77 L601 X-021673101K COIL 100 UH D508 X-DIV1001330 DIODE_SILICON SS1331-77 L602 X-0216A6200K COIL 100 UH D510 X-D2W7RUZAM0 DIODE_SILICON RIJZAM-EIC L603 X-021LA6220K COIL 22 UH D511 X-D1V1001330 DIODE_SILICON SS133T-77 L604 X-021673101K COIL 100 UH D512 X-D28T21DQN9 DIODE_SCHOTTRY 21DQ09N-TAZ81 L801 X-021673101K COIL 100 UH D513 X-D28T21DQN9 DIODE_SCHOTTRY 21DQ09N-TAZ81 L801 X-021673101K COIL 1604 M-021670161K D514 X-D1V1001330 DIODE_SILICON SS133T-77 L604 X-021673101K COIL 1609 UH D516 X-D28T21DQN9 DIODE_SCHOTTRY 21DQ09N-TAZ81 L801 X-021670151K COIL 1609 UH D518 X-D1V1001330 DIODE_SILICON 15S133T-77 D520 X-D97U01801B DIODE_SILICON 15S133T-77 D521 X-D1V7001330 DIODE_SILICON 15S133T-77 D525 X-D1V7001330 DIODE_SILICON 15S133T-77 D525 X-D1V7001330 DIODE_SILICON 15S133T-77 D525 X-D1V7001330 DIODE_SILICON 15S133T-77 D526 X-D1V7001330 DIODE_SILICON 15S133T-77 D526 X-D1V7001330 DIODE_SILICON 15S133T-77 D526 X-D1V7001330 DIODE_SILICON 15S133T-77 D526 X-D1V7001330 DIODE_SILICON 15S133T-77 D527 X-D1V7001330 DIODE_SILICON 15S133T-77 D528 X-D1V7001330 DIODE_SILICON 15S133T-77 D529 X-D1V7001	DIODE_SELECON DIODE_SELECO								
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D511 X-D1VT001330 DIODE_SILICON 1SS133T-77 L604 X-D21F3101K COIL 100 UH	111 X-D1VT001330 DIODE_SILICON 1SS133T-77 121 X-D28T10ELS6 DIODE_RECTIFIER 10ELS6TA152 L701 X-021673101K COIL 100 UH 131 X-D28T21D0N9 DIODE_SCHOTTRY 21DQ09N-TAZB1 141 X-D1VT001330 DIODE_SILICON 1SS133T-77 151 X-D1VT001330 DIODE_SILICON 1SS133T-77 152 X-D1VT001330 DIODE_SILICON 1SS133T-77 153 X-D1VT001330 DIODE_SILICON 1SS133T-77 154 X-D1VT001330 DIODE_SILICON 1SS133T-77 155 X-D1VT001330 DIODE_SILICON 1SS133T-77 156 X-D1VT001330 DIODE_SILICON 1SS133T-77 157 X-D1VT001330 DIODE_SILICON 1SS133T-77 158 X-D1VT001330 DIODE_SILICON 1SS133T-77 159 X-D1VT001330 DIODE_SILICON 1SS133T-77 150 X-D1VT001330 DIODE_SILICON 1SS133T-77 155 X-D1VT001330 DIODE_SILICON 1SS133T-77 156 X-D1VT001330 DIODE_SILICON 1SS133T-77 157 X-D1VT001330 DIODE_SILICON 1SS133T-77				I				
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1. D513	13 X-028721DON9 DIODE SCHOTTRY 21DQ09N-TA2B1 L801 X-02167D151K COIL 16€-UH 14 X-D1VT001330 DIODE SCHOTTRY 21DQ09N-TA2B1 Δ 1501 X-03305Y0018 TRANS,HORL DRIVE 305Y001				I				
D514	14 X-D1VT001330 DIODE, SILICON 1SS133T-77 16 X-D28T21DQN9 DIODE SCHOTTKY 21DQQ9N*TA2B1 1 18 X-D1V1001330 DIODE, SILICON 1SS1331-77 19 X-D1VT001330 DIODE, SILICON 1SS1331-77 20 X-D97U01801B DIODE, SILICON 1SS133T-77 21 X-D1VT001330 DIODE, SILICON 1SS133T-77 25 X-D1VT001330 DIODE, SILICON 1SS133T-77 25 X-D1VT001330 DIODE, SILICON 1SS133T-77								
D516 X-D28T21DQN9 DIODE SCHOTTRY 21DQ99N-TA2B1 Δ 1501 X-0481290754 TRANS,SWITCH,NG 81290754 D518	16				<u>,</u> Ι				
D518 X-D1V1001330 DIODE_SILICON 1\$S1331-77 D519 X-D1VT001330 DIODE_SILICON 1\$S1331-77 D520 X-D97U01801B DIODE_ZENER MTZJ1987-77 D521 X-D1VT001330 DIODE_SILICON 1\$S133T-77 D525 X-D1VT001330 DIODE_SILICON 1\$S133T-77 D525 X-D1VT001330 DIODE_SILICON 1\$S133T-77	18 X-D1V1001330 DIODE, SILICON 1SS 1331-77 19 X-D1VT001330 DIODE SILICON 1SS 1331-77 20 X-D97U01801B DIODE ZENER MIZJ193 T-77 21 X-D1VT001330 DIODE, SILICON 1SS 133T-77 25 X-D1VT001330 DIODE, SILICON 1SS 133T-77				١			TRANS SWITCHING	81290754
D519 X-D1VT001330 DIODE_SILICON 1SS133T-77 D520 X-D97U01801B DIODE_ZENER MTZJ192 T-77 D521 X-D1VT001330 DIODE_SILICON 1SS133T-77 D525 X-D1VT001330 DIODE_SILICON 1SS133T-77 D526 X-D1VT0001330 DIODE_SILICON 1SS133T-77	19 X-D1VT001330 DIODE_SILICON 1SS133T-77 20 X-D97U01801B DIODE_ZENER MIZ_1128 T-77 21 X-D1VT001330 DIODE_SILICON 1SS133T-77 25 X-D1VT001330 DIODE_SILICON 1SS133T-77				· }		p	1	
D520 X-997U01801B DIODE ZENER MTZ.1182T-77 D521 X-D1VT001330 DIODE,SILICON 1\$S.133T-77 D525 X-D1VT001330 DIODE,SILICON 1\$S.133T-77	20 X-097U018018 DIODE ZENER MTZ.1987T-77 21 X-D1VT001330 DIODE_SILICON 1SS133T-77 25 X-D1VT001330 DIODE_SILICON 1SS133T-77				$\overline{}$				
D521 X-D1VT001330 DIODE_SILICON 1SS133T-77 D525 X-D1VT001330 DIODE_SILICON 1SS133T-77	21 X-D1VT001330 DIODE_SILICON 1SS133T-77 25 X-D1VT001330 DIODE_SILICON 1SS133T-77) ľ	1		\ (>~ /
D525 X-D1VT001330 DIODE,SILICON	25 X-D1VT001330 DIODE,SILICON 1SS133T-77)		\ (
	26 X-D28T10ELS6 DIODE,RECTIFIER 10ELS6TA1B2				\neg				
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REF. NO.	NO. PAI	NO. DESCRIPTIO	N
		JACKS	
⚠ J353	X-060G1310	RCA JACK	HTJ-035-28A
J701	X-060Q4010	RCA JACK	AV1-06D-4
J702	X-060Q4010		AV1-06D-3
J703	X-060Q4010		AV1-15D-4
J704	X-060Q4010		AV1-15D-3
△ J801	X-066X1200	SOCKET, CATHODE RAY TUBE	HPS3200-010501
		SWITCHES	\
SW101		SW//CH,TACT	SKHVBED010
SW102 SW104		SWITCH, TACT SWITCH, TACT	SKHVBED010 SKHVBED010
SW 104 SW 105		SWITCH, TACT	SKI VBED010
∆ SW501		SWITCH PLUS	SDDFC30400
	l l	VARIABLI: RESISTORS	
VR401			EVNCYAA03BE3
VR501	X-V1262L2B		RH063LCN2R
B501	X-024AT036	MISCELLANEOUS CORE,BEADS	BL01RN1-A63T6
B502	X-024AT034		BL02RN2-R62T4
B503	X-024AT036		BL01RN1-A63T6
B504	X-024AT036	CORE,BEADS	BL01RN1-A63T6
BT001		BATTERY, MANCAN	R03(AB)E_20_T
BT002		BATTERY, MANGAN	R03(AB)E_20_T
CD352 CD353			CH12081A 2Y072002
△ CD501		CORD AC BUSH	064F4801
CD801		BRAIDED WIRE	SM1315-001
CD802	2 X-122Y0A28	CORD JUMPER	2Y0A2861
CF201			M1866M
CP001			003P-2100
CP101 CP352		CONNECTOR PCB SIDE CONNECTOR PCB SIDE	173979-6 52147-0710
CP352 CP353			51048-0710
△ CP401			B05B-DVS
CP502	X-069W4200		TV-50P-02-A1
CP801			TS-80P-02-V1
CP802A			51048-1000
CP8025 EL001			51048-1000 XRY16X28BD
EL002		EYE LET	XRY20X30BD
△ F501	X-080NT050		50T050HCC
∆ FB401		TRANSFORMER,FLYBACK	FQI-20B001
FH501		HOLDER,FUSE	EYF-52BC
FH502		HOLDER, FUSE	EYF-52BC
OS101 Δ RY501			PIC-37143SY ALKS321
SP351			MS-2D6SB02-1
SP352			MS-2D6SB02-1
TH502			PTH451A140M21
⚠ TU001			ENV56D66G3
∆ V801	X-098Y2004		A48LGS30X19S15
X101 X601	X-100DA32F X-100CT4R4		DT-26 HC-49/U
7001	//X 100014IK4	, John Stra	110 40/0
RESISTOR	STOR \	/ /	\ (
	\RC	CARBON RESISTOR	
O A D A OUT O D	OLTODO		
CAPACITOR		OFDAMIC CADACITOR	
	CC CE	CERAMIC CAPACITOR ALUMI ELECTROLYTIC CAPAC	ITOR
	CP	POLYESTER CAPACITOR	HOK
	CPP	. POLYPROPYLENE CAPACITOR	₹
	CPL	PLASTIC CAPACITOR	
	CMP)R
	CMPL	METAL PLASTIC CAPACITOR	N OTTOR
	CMPP	METAL POLYPROPYLENE CAP	ACITOR
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ACCESSORY REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION			
1	X-023C00022A	Matching Box	HPN-01		
2	X-076N0DW030	ROMOTE CONTROL	RC-DW030		
3	X-7225380010	Rating Label	> /		
4	CP30897-002	Poly Bag(for TV Set)			
5	CP30897-002	Poly Bag(for Inst Book)			
6	CP30899-001	Top Cover			
7	J-0137	Cushion(Top)	2pcs in 1 set		
8	J-0138	Cushion(Bottom)	2pcs in 1 set		
9	GQ10036-002A	Packing Case	•		
10	GQ30031-002A	POS Label			
11	X-3H70301A	Instruction Book			



VICTOR COMPANY OF JAPAN, LIMITED
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