C-N14210/S STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Color bar signal
(2)Setting positions of each knob/button and variable resistor	:Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ/V
(4)Oscilloscope sweeping time	:H ⇒ 20μS/div :V ⇒ 5mS/div :Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value

No unit	:[Ω]
K	:[KΩ]
M	:[MΩ]

●Rated allowable power

No indication	:1/10 [W]
Others	:As specified

●Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value

1 or higher	:[pF]
less than 1	:[μF]

●Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

*Electrolytic Capacitors

47/50[Example]:Capacitance value [μF]/withstand voltage[V]

●Type

No indication	:Ceramic capacitor
MY	:Mylar capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[μH]
Others	:As specified

(4)Power Supply

:B1

:B2(12V)


:9V

:5V

*Respective voltage values are indicated

(5)Test point

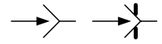

:Test point

:Only test point display

(6)Connecting method


:Connector

:Wrapping or soldering


:Receptacle

(7)Ground symbol

⊥ :LIVE side ground

⏚ :ISOLATED(NEUTRAL) side ground

⏚ :EARTH ground

▽ :DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, 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.**

◇ **NOTE**

Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

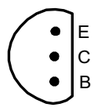
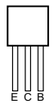
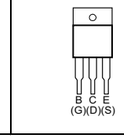
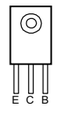
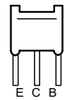
VP0108
DP6051

Aug. 2001 No.51831

CONTENTS

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

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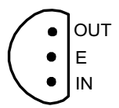
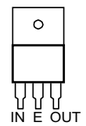
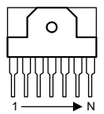
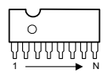
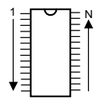
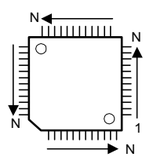
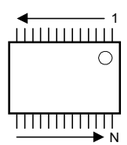
BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

TOP VIEW		
		

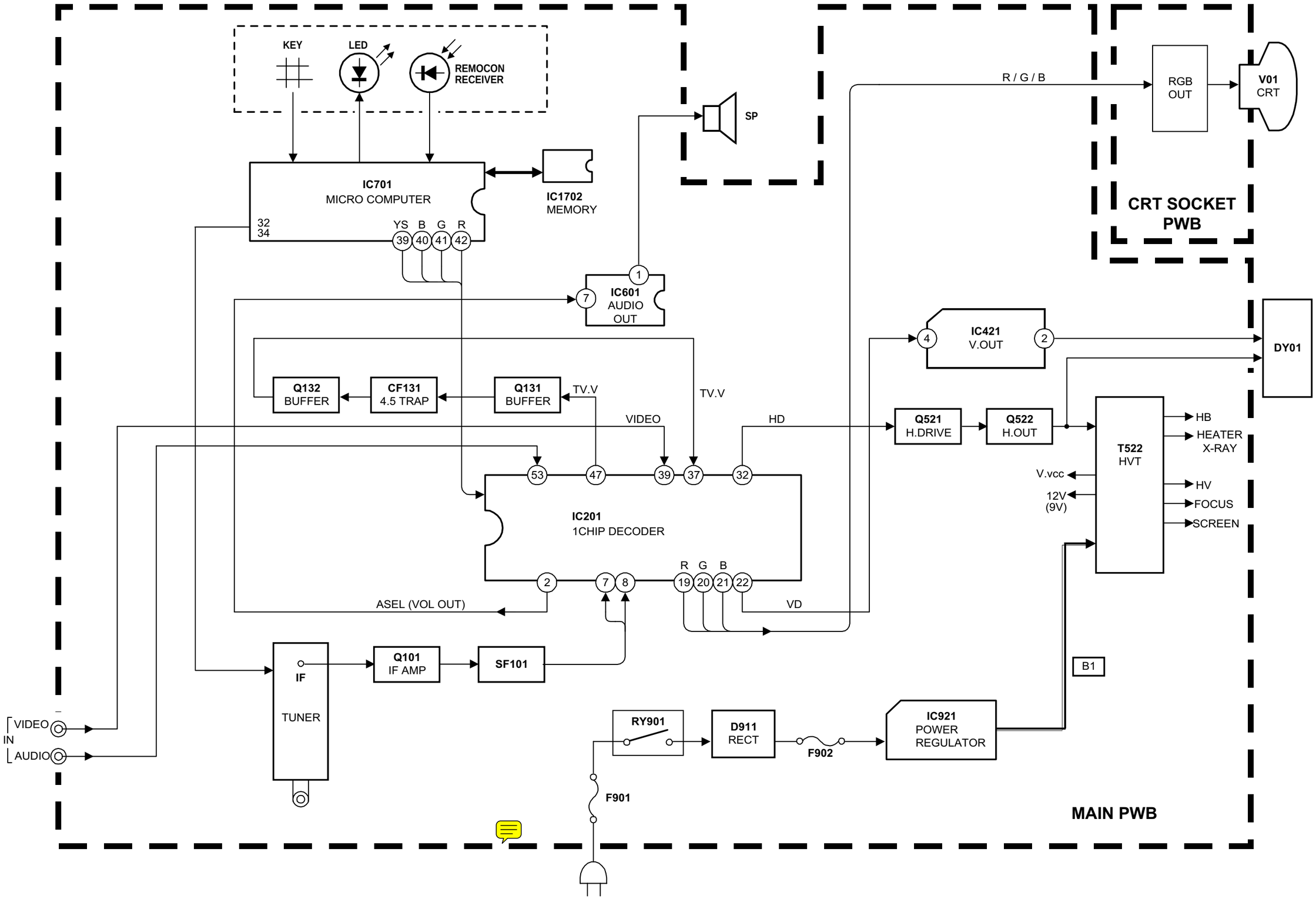
CHANNEL CHART

MODE TV	MODE CATV	BAND	CHANNEL DISP.	TUNER BAND
○	○	VL	02 03 04 05 06	Ⅰ
		VH	07 08 09 10 11 12 13	Ⅱ
×	○	MID	14 15	Ⅰ
			16 17 18 19 20 21 22	Ⅱ
		SUPER	23 24 25 26 27 28 29 30 31 32 33 34 35 36	Ⅱ
		HYPER	37 38 39 40 41 42 43 44 45 46 47	Ⅱ
			48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	Ⅳ
		ULTRA	65 66 67 68 69 70	Ⅳ
×	○	ULTRA	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	Ⅳ
		SUB MID	01 96 97 98 99	Ⅰ
○	×	UHF	14 ≀ 69	Ⅳ

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

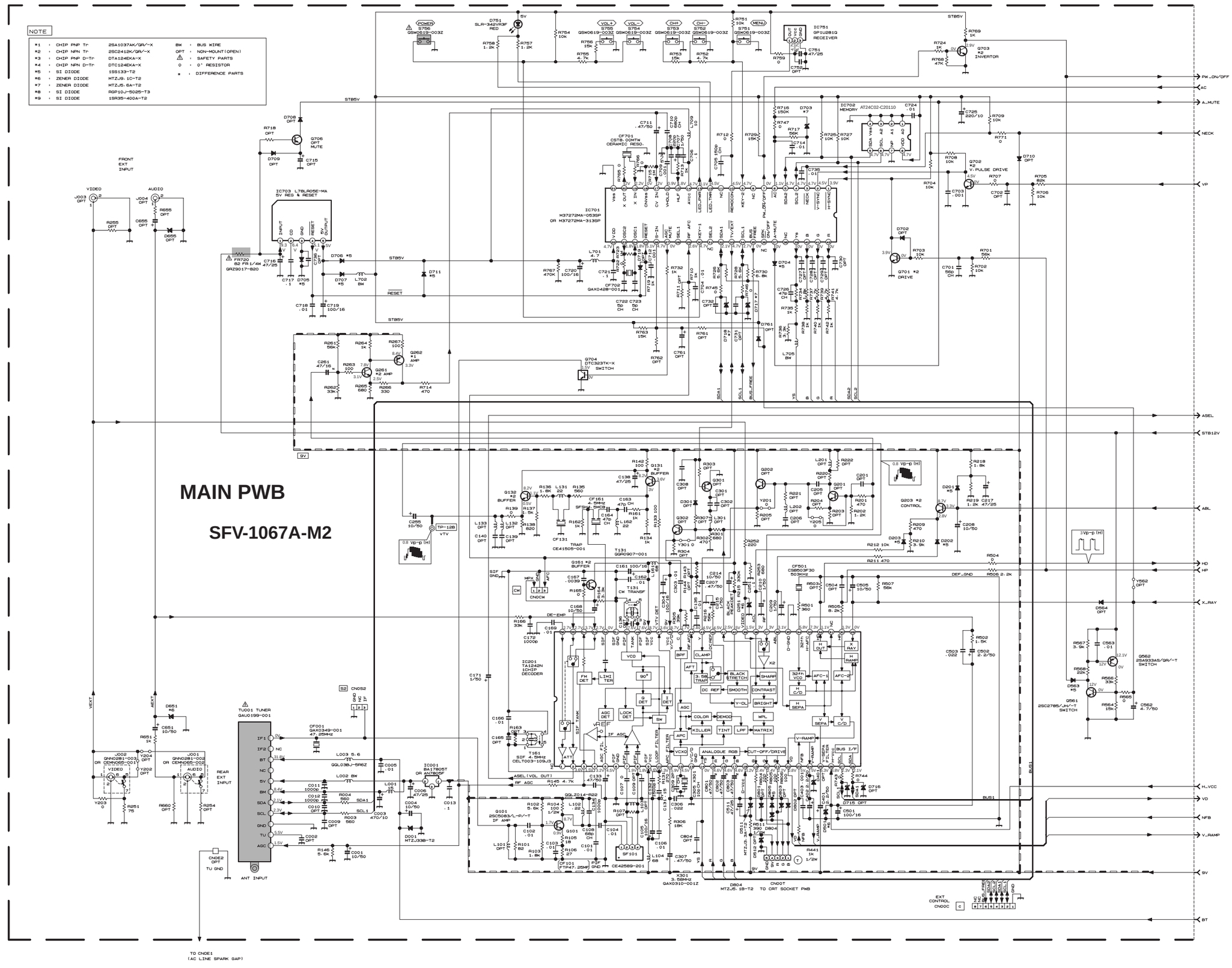
NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

BLOCK DIAGRAM



CIRCUIT DIAGRAMS

MAIN PWB,
CRT SOCKET PWB
CIRCUIT DIAGRAMS


MAIN PWB
SFV-1067A-M2
NOTE
*1 : CHIP PNP Tr 2SA1037AK/QR/-X
*2 : CHIP NPN Tr 2SC2412K/QR/-X
*3 : CHIP PNP D-Tr DTA124EKA-X
*4 : CHIP NPN D-Tr DTC124EKA-X
*5 : SI DIODE 1SS133-T2
*6 : ZENER DIODE MTZJ9.1C-T2
*7 : ZENER DIODE MTZJ5.6A-T2
*8 : SI DIODE RGP10J-5025-T3
*9 : SI DIODE 1SR35-400A-T2
BW : BUS WIRE
OPT : NON-MOUNT(OPEN)
⚠ : SAFETY PARTS
0 : 0° RESISTOR
★ : DIFFERENCE PARTS
IC201 TA1242N 1CHIP DECODER
IC301 M37272MA-053GP OR M37272MA-313SP
IC703 L78L05SE-MA 5V REG & RESET
IC751 GP1U281Q RECEIVER
IC702 MEMORY AT24C02-C20110
IC001 BA178M05T OR AN78M05F
TU001 TUNER GAU0199-001
CF701 CST8.00MTW CERAMIC RESO.
CF501 CSB503F30 503KHz
CF001 GAX0349-001 47.25MHz
CF101 (FTP47.25MB) CE42589-201
X301 3.58MHz GAX0310-001Z
SF101 SIF
SF501 VIF
T131 GGR0907-001
T161 SIF 4.5MHz CELT003-105J3
L701 4.7
L702 BW
L705 BW
L003 5.6 GQL03BJ-5R6Z
L002 BW
L001 15
L201 OPT 47
L202 OPT 47
L206 OPT 47
L501 OPT 47
L502 OPT 47
L503 OPT 47
L504 OPT 47
L505 OPT 47
L506 OPT 47
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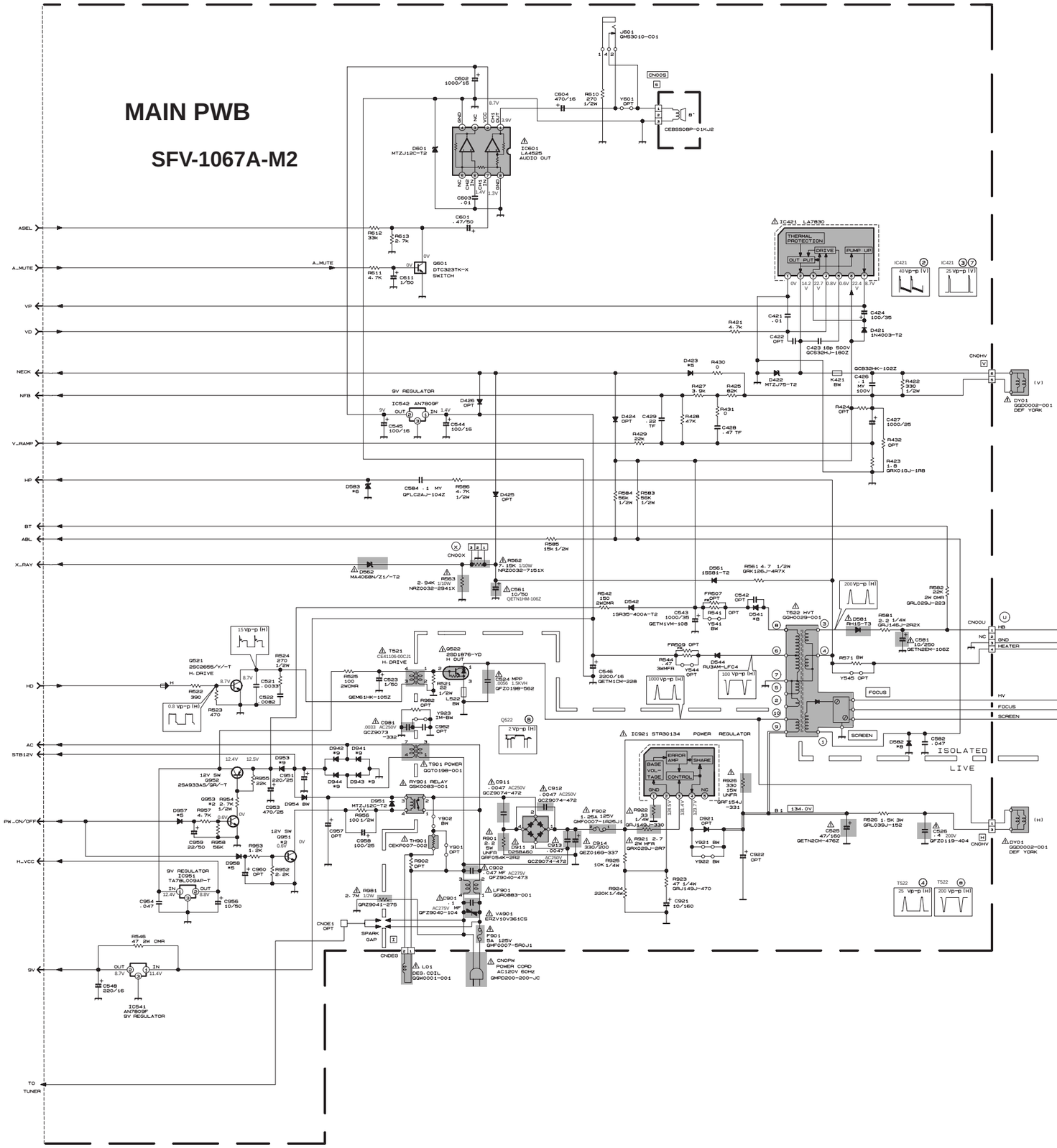
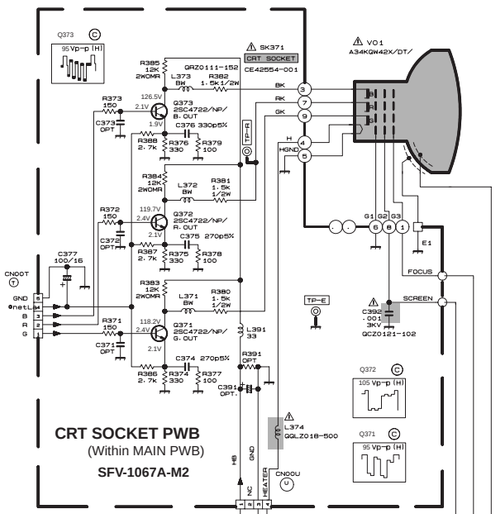
L513 OPT 47

MAIN PWB

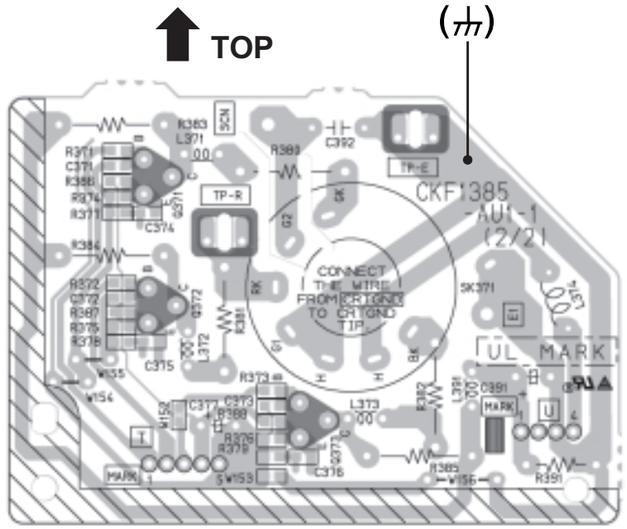
SFV-1067A-M2





PATTERN DIAGRAMS

MAIN PWB, CRT SOCKET PWB PATTERN



CRT SOCKET PWB ASS'Y(2/2)

MAIN PWB ASS'Y(1/2)