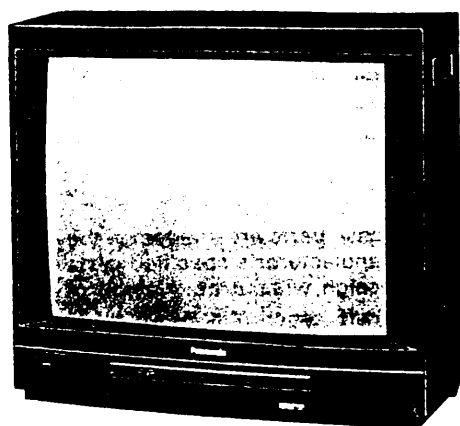


Service Manual

Color Television



TC-2171NPSR
NMX-M15MA chassis

TC-2671NPSR
NMX-M15MB chassis

Specifications

Power Source : AC 120 - 240 V, 50 / 60 Hz
 Power Consumption : 110 W (Max.) (TC-2171NPSR)
 135 W (Max.) (TC-2671NPSR)
 Stand-by condition 12 W
 Antenna Impedance : 75 Ω unbalanced, Coaxial Type
 Receiving System : 15 systems
 Receiving Channels :

Regular TV

VHF BAND	2 - 12	(PAL / SECAM - B, G)
	1 - 3, 6 - 12	(PAL / SECAM - D)
	2 - 9	(SECAM - K ₁)
	2 - 13	(NTSC - M)
UHF BAND	21 - 69	(PAL / SECAM - B, G, I)
	21 - 69	(SECAM - K)
	13 - 57	(PAL - D)
	14 - 83	(NTSC - M)

CATV

S1 - S3, M1 - M10, U1 - U10
 MID BAND A-2, A-1, A - I
 SUPER BAND J - W

Intermediate

Frequency :	Video	38.0 MHz
	Sound	31.5 MHz (D, K, K ₁)
		32.0 MHz (I)
		32.5 MHz (B, G)
		33.5 MHz (M)
	Color	33.57 MHz (PAL)
		33.6 MHz (SECAM)
		33.75 MHz (SECAM)
		34.42 MHz (NTSC)

Anode Voltage : 25.7 kV at zero beam current (TC-2171NPSR)
 28.5 kV at zero beam current (TC-2671NPSR)

Picture Tube : A51JXS95X 21 inches (54 cm)
 measured diagonally, 90° deflection
 (TC-2171NPSR)
 M63JUA91X 26 inches (66 cm)
 measured diagonally, 110° deflection
 (TC-2671NPSR)

Audio Output : 2.5 W (Max.) (TC-2171NPSR)
 3.0 W (Max.) (TC-2671NPSR)

Speaker : 12 cm x 5 cm, 8 Ω , Oval Type

Video / Audio
 Terminals : Video In 1 V p-p, 75 Ω
 Audio In Approx. 400 mV
 Monitor Out 1 V p-p, 75 Ω
 Audio Out Approx. 400 mV

Remote Control
 Transmitter : 33 keys Infrared Controller

Dimensions : Height : 47.0 cm (TC-2171NPSR)
 56.4 cm (TC-2671NPSR)
 Width : 51.0 cm (TC-2171NPSR)
 62.7 cm (TC-2671NPSR)
 Depth : 48.0 cm (TC-2171NPSR)
 45.0 cm (TC-2671NPSR)

Weight : 21.8 kg (TC-2171NPSR)
 32.5 kg (TC-2671NPSR)

Specifications are subject to change without notice.
 Weight and dimensions shown are approximate.

Panasonic.

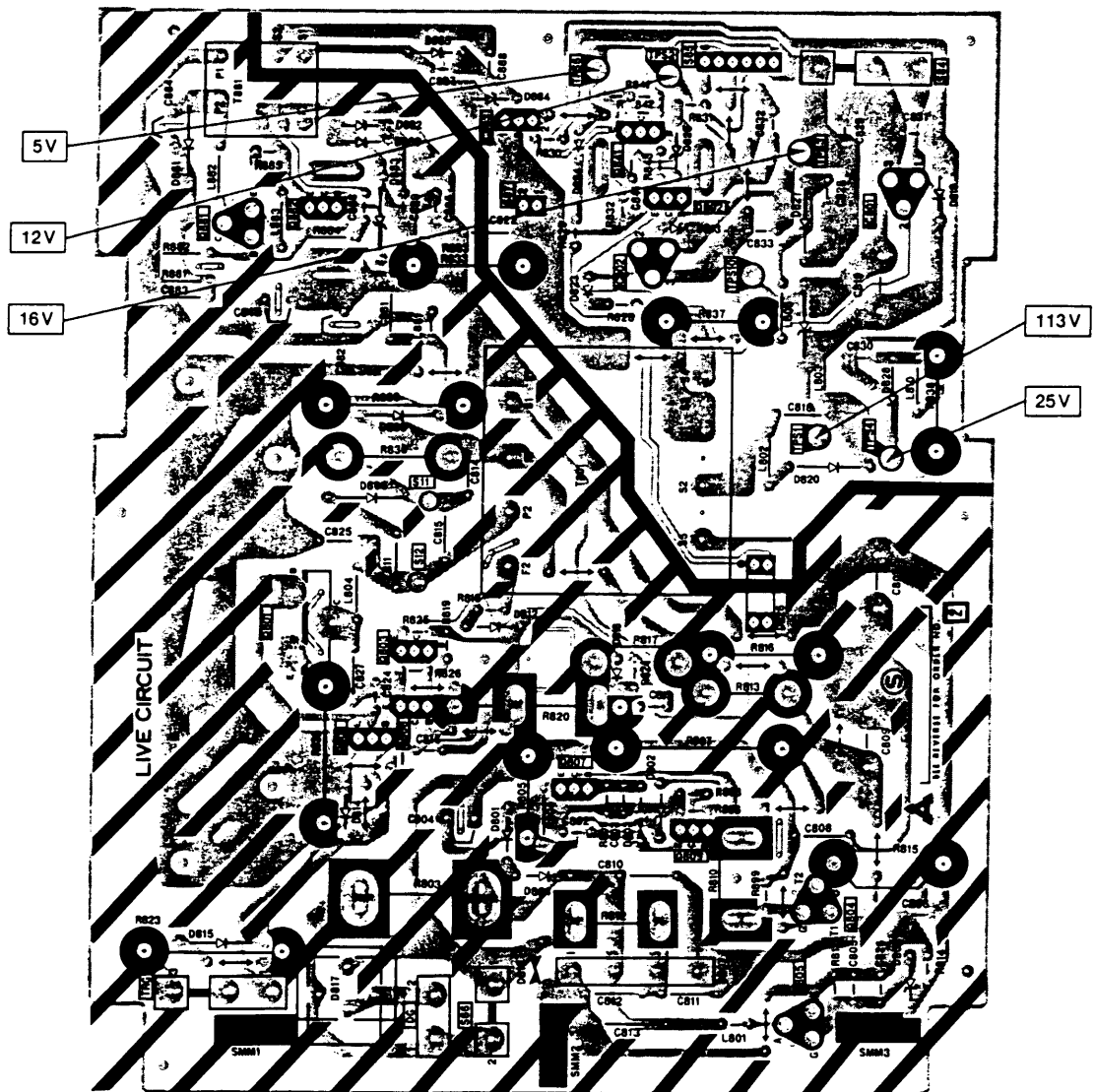
Matsushita Electric Trading Co., Ltd.
 C.P.O. Box 228, Osaka 530 - 91, Japan

Panasonic Tokyo Sales Department
 Matsushita Electric Trading Co., Ltd.
 World Trade Center Bldg.,
 4-1 2-Chome, Hamamatsu-cho, Minato-ku,
 Tokyo 105, Japan

CONDUCTOR VIEWS

S-BOARD TNP107304AA (TC-2171NPSR)

I.C.	IC803	IC802	IC801
TRANSISTOR	Q881 Q882 Q801 Q803 Q806	Q841 Q802 Q807 Q809	Q804 Q805
DIODE	D881 D882 D883 D889 D806 D814 D817	D884 D824 D823 D812 D801 D804 D816	D825 D813 D818 D803 D802 D807 D827 D82 D820 D828 D819 D805
TEST POINT		TPS5 TPS2	TPS10 TPS3 TPS1 TPS4



E-BOARD TNP197024AB (TC-2171NPSR)
E-BOARD TNP197024AC (TC-2671NPSR)

25V

16V

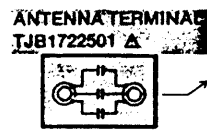
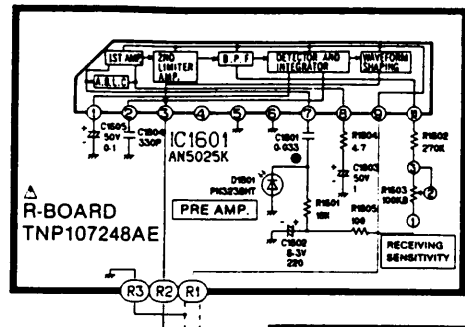
5V

16V

113V

12V

TC-2171NPSR TC-2171NPSR



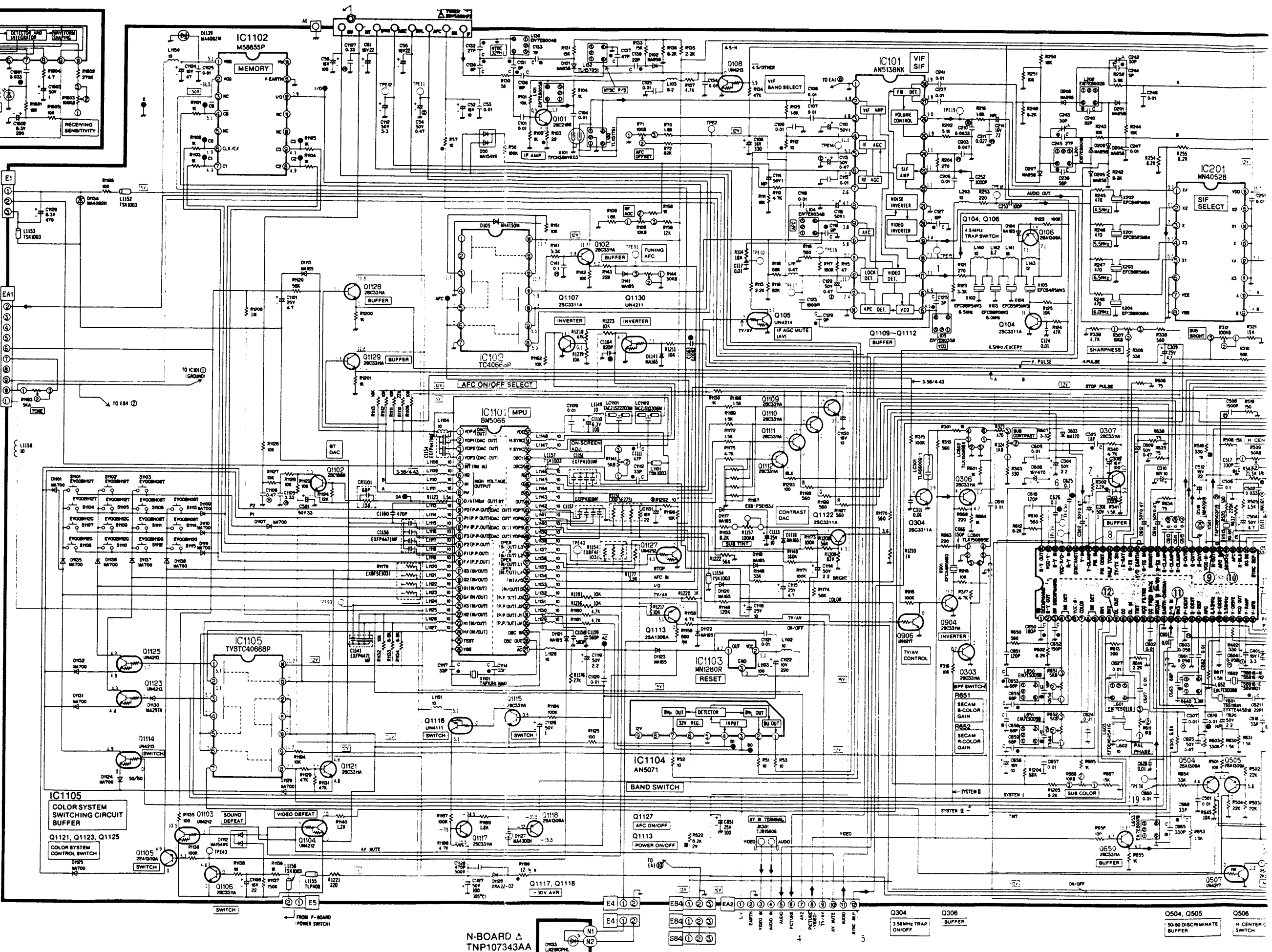
SWITCH FUNCTION

S1101	System I
S1102	System II
S1103	Recall
S1104	TV/AV
S1105	Normal
S1106	Vol ▽
S1107	Channel Write ×10
S1108	Tuning Auto
S1109	Channel Write ×1
S1110	Preset
S1111	Prog ▽
S1112	Tuning ▽
S1113	Vol ▲
S1114	Prog ▲
S1115	Tuning ▲

VOLTAGE TABLE

IC1101	Pin No.	Voltage	Pin No.	Voltage
1	27	4.5	11	4.9
2	28	2.2	12	4.9
3	29	2.2	13	4.9
4	30	4.2	14	4.9
5	31	0.2	15	4.9
6	32	0.2	16	4.9
7	33	0.2	17	4.9
8	34	0.2	18	4.9
9	35	0.2	19	4.9
10	36	0.15	20	4.9
11	37	0	21	2.0
12	38	4.1	22	0.2
13	39	5.0	23	0.1
14	40	3.2	24	0.1
15	41	2.0	25	50
16	42	1.9	26	52
17	43	2.0		
18	44	0		
19	45	0		
20	46	0		
21	47	0		
22	48	0		
23	49	0.15		
24	50	4.8		
25	51	4.0		
26	52	5.1		

IC1104	Pin No.	Voltage	Pin No.	Voltage
1	27	4.5	11	4.9
2	28	2.2	12	4.9
3	29	2.2	13	4.9
4	30	4.2	14	4.9
5	31	0.2	15	4.9
6	32	0.2	16	4.9
7	33	0.2	17	4.9
8	34	0.2	18	4.9
9	35	0.2	19	4.9
10	36	0.15	20	4.9
11	37	0	21	2.0
12	38	4.1	22	0.2
13	39	5.0	23	0.1
14	40	3.2	24	0.1
15	41	2.0	25	50
16	42	1.9	26	52
17	43	2.0		
18	44	0		
19	45	0		
20	46	0		
21	47	0		
22	48	0		
23	49	0.15		
24	50	4.8		
25	51	4.0		
26	52	5.1		



N-BOARD
TNP107343AA

TC-2171NPSR TC-2171NPSR

WAVEFORM PATTERN TABLE

