

SERVICE MANUAL **& PARTS LIST** (with price)

POCKET TELEVISION

TV-600B

DECEMBER 1994

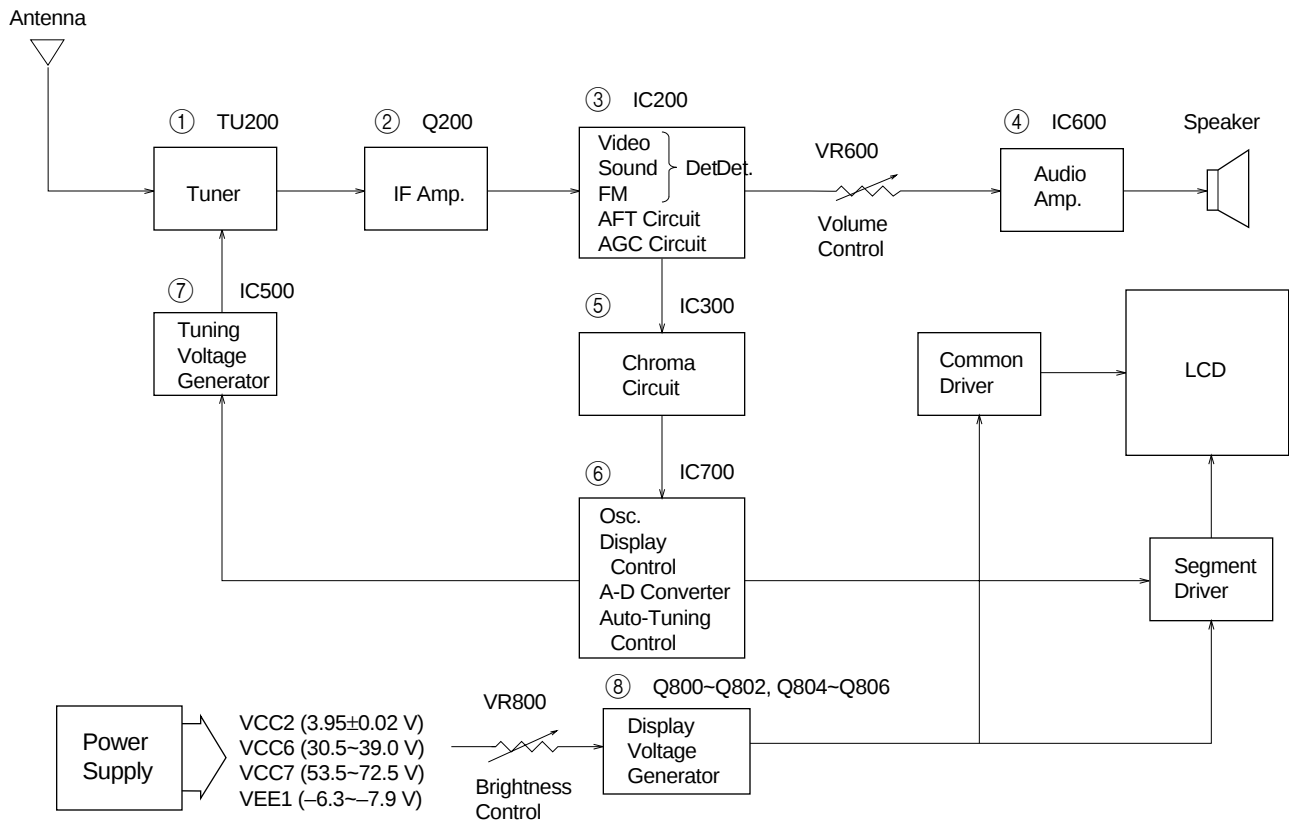
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CASIO®

SPECIFICATIONS

Item	Specification
1. Reception channels	VHF : 2 ~ 13 ch UHF : 14 ~ 69 ch
2. Power voltage	DC 6.0 V
3. Power consumption	Approx. 3.4 W
4. Current consumption	Approx. 566 mA
5. Battery life (with alkaline batteries)	Approx 3.0 hours
6. Power supply	Batteries : 4 AA size batteries Car adaptor : CA-K65 AC adaptor : ADK-65, 64
7. Connection terminals	Earphone jack : 3.5ø mini External power jack : 6.0V DC IN External antenna jack : 3.5ø mini Audio / Video jack : 3.5ø
8. Screen size	2.2 inches
9. No. of Picture element	39,600 (110 × 360) dots
10. Dimensions	81 (W) × 32 (D) × 131 (H) mm 3 1/5" (W) × 1 1/4" (D) × 5 1/6" (H)
11. Weight	220 g excepting batteries 7.8 oz excepting batteries
12. Standard accessories	Test batteries (R6 × 4)
13. Options	AC adaptor : AD-K65, 64 Car adaptor : CA-K65 RF connector : CF-13 Antenna matching device : AS-35S
14. Body color	Black

BLOCK DIAGRAM



- ① — Color Tuner: TU200 TEPU5-02
Selects a desired radio wave and changes it to the video IF signal.
- ② — Video IF Amp.: Q200 2SC4238
Amplifies the video IF signal output from the tuner TU by 10 times (20 dB).
- ③ — Video Det./Sound Det./FM Det./AFT/AGC: IC200 M51348FP
Eliminates the carrier wave in the video IF signal, and picks up the video signal and the sound IF signal. Also, the sound signal is picked up from the sound IF signal by FM detection.
- ④ — Audio Amp.: IC600 NJM2070M
Sound amplification.
- ⑤ — Chroma Circuit: IC300 M52042FP
Generates the tricolor (red, green, and blue) from the video signal.
- ⑥ — Osc./A-D Converter/Display Control/ Auto-Tuning Control : IC700 MSM6625-02 GSK-640F
Converts the color signal into a digital signal.
Also, generates the clock pulse for the display and controls the display.
- ⑦ — Tuning Voltage Generator: IC500 MSC1169MS-K
Generates the tuning voltage with the tuning pulse (TU) output from ⑥
- ⑧ — Display Voltage Generator: Q800~Q802, Q804~Q806, 2SD601A-R x 4, 2SB709A-R, 2SD1149-S
Generates the display voltages V0 ~ V4 with VEE1 and VCC7 outputs from the power supply.

CIRCUIT DESCRIPTION

TUNING VOLTAGE GENERATOR

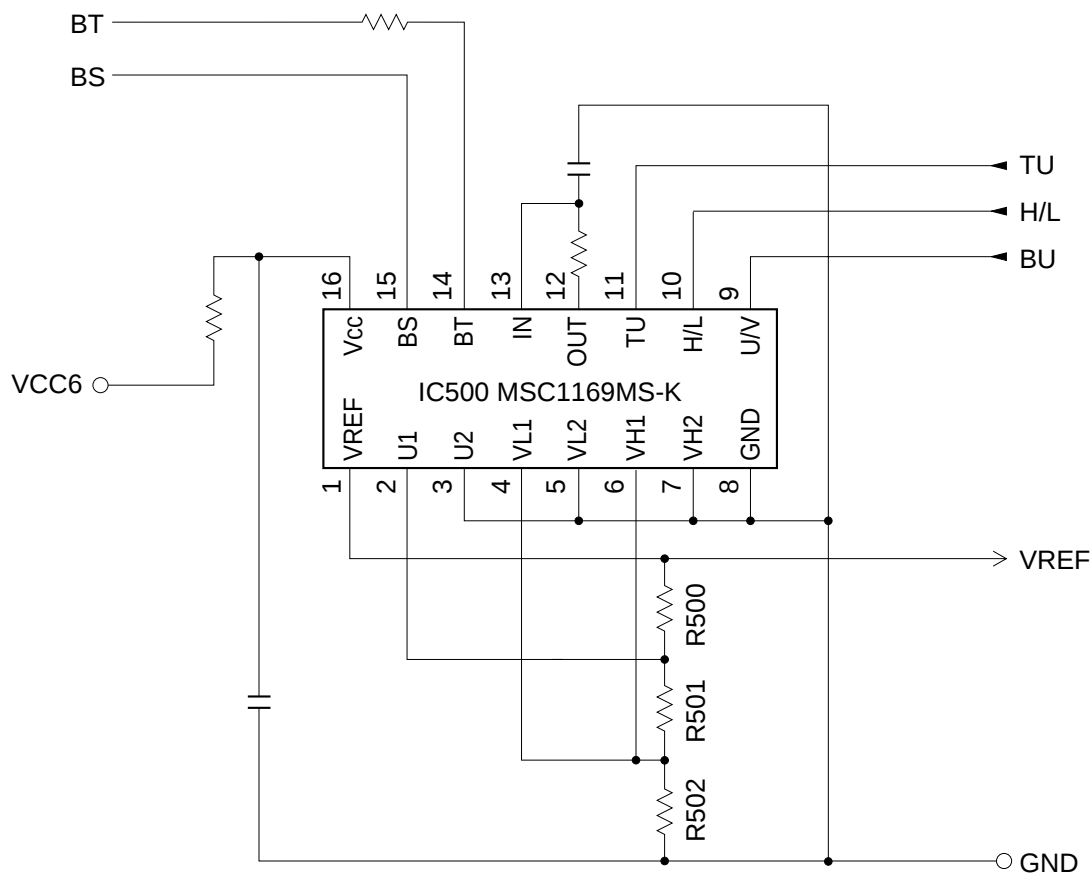


Figure 1

This circuit generates the DC tuning voltage BT for selecting a channel with a TU pulse being output from IC700.

IC500 has 3 circuits for converting pulses to voltages; it selects one of VHF-L, VHF-H, or UHF, and causes the tuning voltage to be output from the OUT terminal (pin 12). Figure 2 and Table 1 show the conditions for selection.

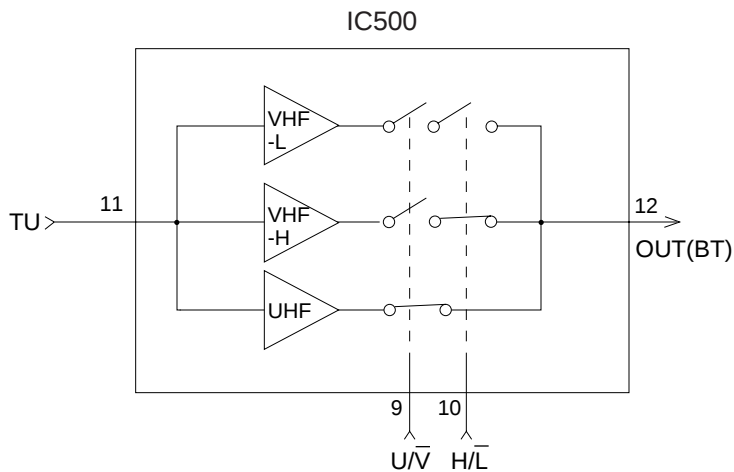


Figure 2

Inputs		Function
U/V	H/L	
L	L	VHF-L receiving
L	H	VHF-H receiving
H	L	UHF receiving
H	H	UHF receiving

Table 1

POWER SUPPLY

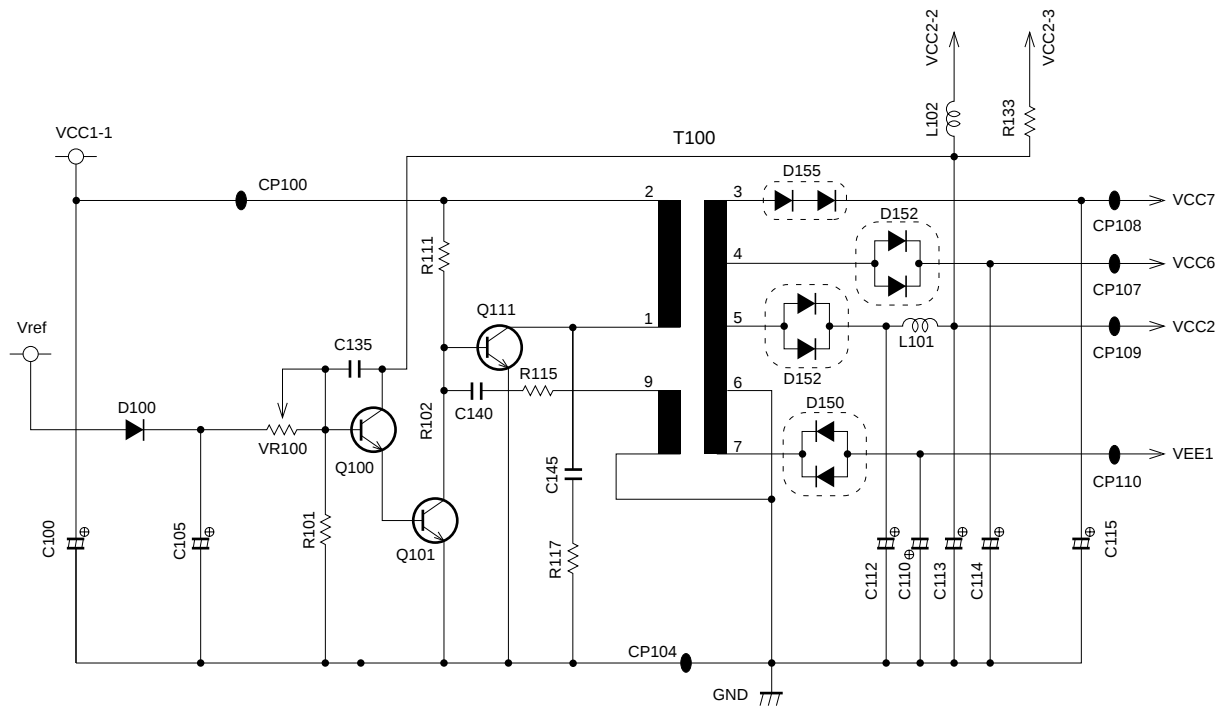


Figure 3

The power supply consists of a DC-DC converter and causes the voltages to be output as shown in Table 2.

Name	Voltage	Function
VCC2	3.95 ± 0.02 V	Main voltage
VCC6	30.5 ~ 39.0 V	Tuning voltage
VCC7	53.5 ~ 72.5 V	Tuning voltage/Display voltage
VEE1	-6.3 ~ -7.9 V	Display voltage

Table 2

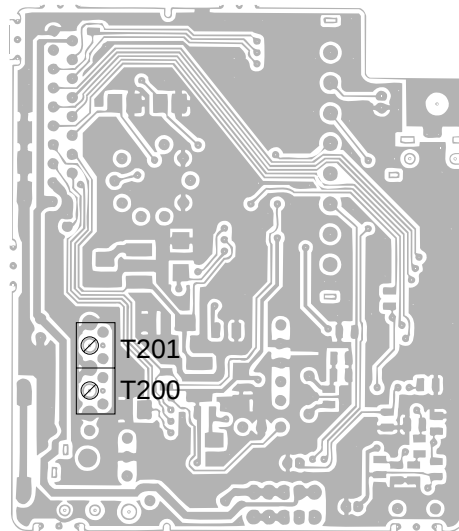
ADJUSTMENT

LINEAR PCB

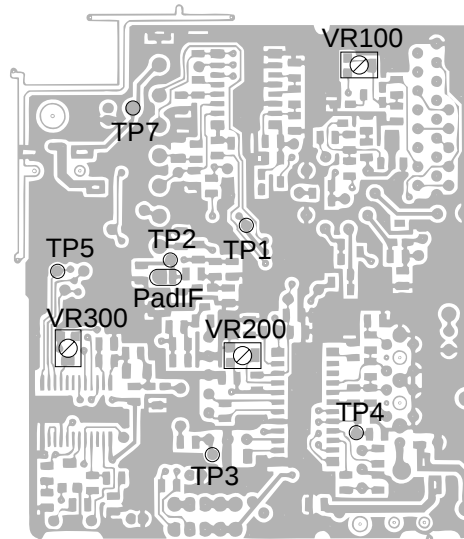
Items To Be Adjusted

Item	Measuring Instrument
VCC2 voltage setting	Voltmeter
Video detection coil adjustment	TV signal generator, pattern generator, oscilloscope, low-pass filter
AFT coil adjustment	Sweep generator, oscilloscope, voltmeter
Contrast adjustment	TV signal generator, pattern generator, oscilloscope
AGC adjustment	TV signal generator, pattern generator, IF levelmeter

Adjustment And Test Point Locations

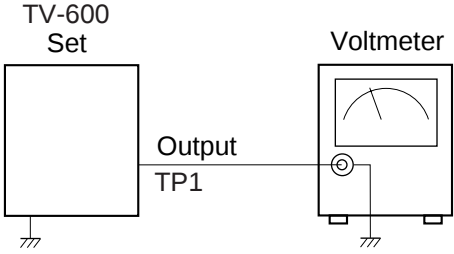


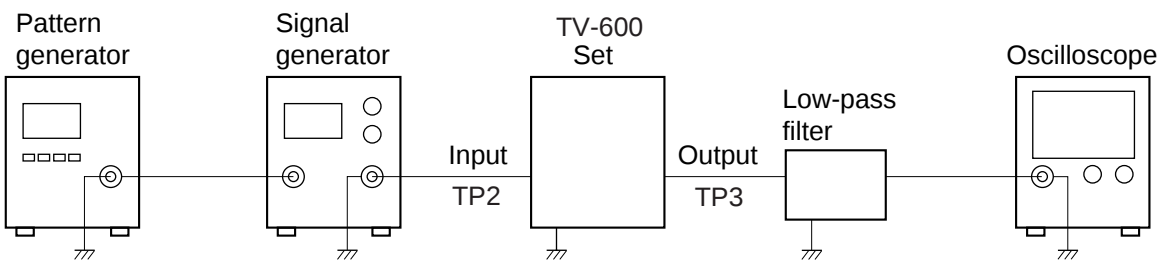
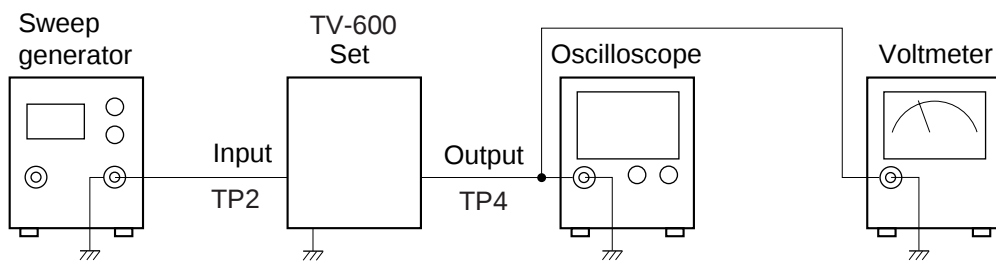
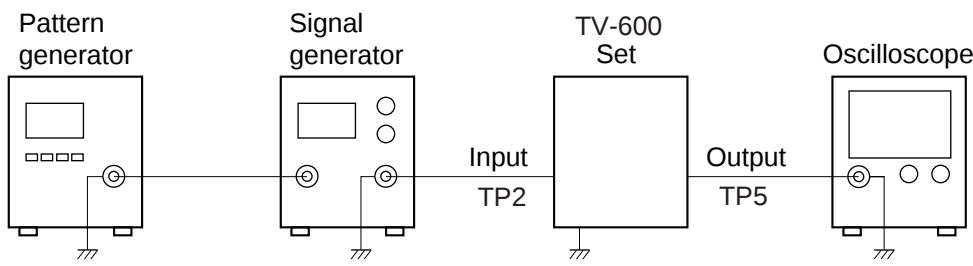
Top View

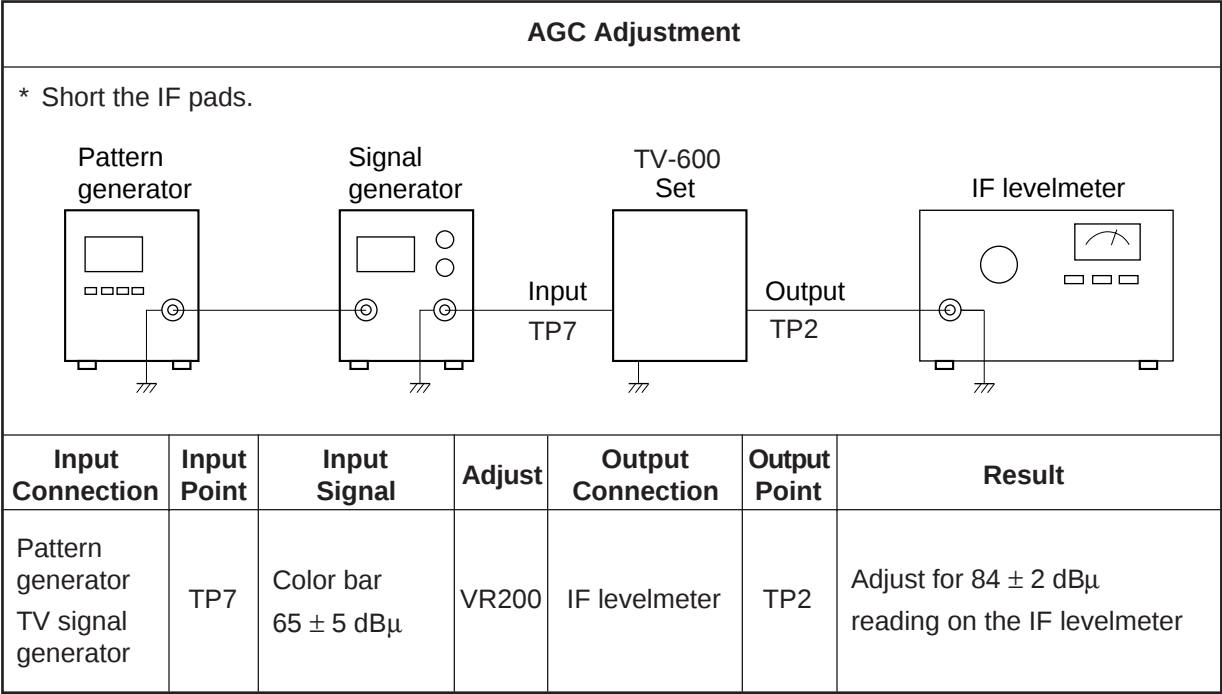


Bottom View

Equipment Connection / Adjustment Procedure

VCC2 Voltage Setting						
 The diagram illustrates the connection for VCC2 voltage setting. A box labeled 'TV-600 Set' is connected to a 'Voltmeter'. The connection point on the TV-600 Set is labeled 'Output TP1'. The voltmeter has a needle and a ground symbol.						
Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Result
_____	_____	_____	VR100	Voltmeter	TP1	Adjust for 3.95 ± 0.02 V reading on voltmeter.

Video Detection Coil Adjustment						
* Desolder the IF pad to open. 						
Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Result
Pattern generator Signal generator	TP2	Color bar 45.75 MHz 40 ± 3 dB μ	T200	Low-pass filter Oscilloscope	TP3	Adjust for DC level at mini-
AFT Coil Adjustment						
* Desolder the IF pad to open. 						
Sweep generator	TP2	45.75 $\pm$ 5 MHz (Sweep) Marker: 45.75 MHz 70 ± 3 dB μ	T201	Voltmeter Oscilloscope	TP4	Adjust for 2.0 $\pm$ 0.2 V reading on voltmeter. Confirm that the marker is at the middle of S-curve on oscilloscope.
Contrast Adjustment						
* Desolder the IF pad to open. 						
Pattern generator Signal generator	TP2	Color bar 45.75 MHz 70 ± 3 dB μ	VR300	Oscilloscope	TP5	Adjust step form wave to read 0.8 $\pm$ 0.05 Vp-p.



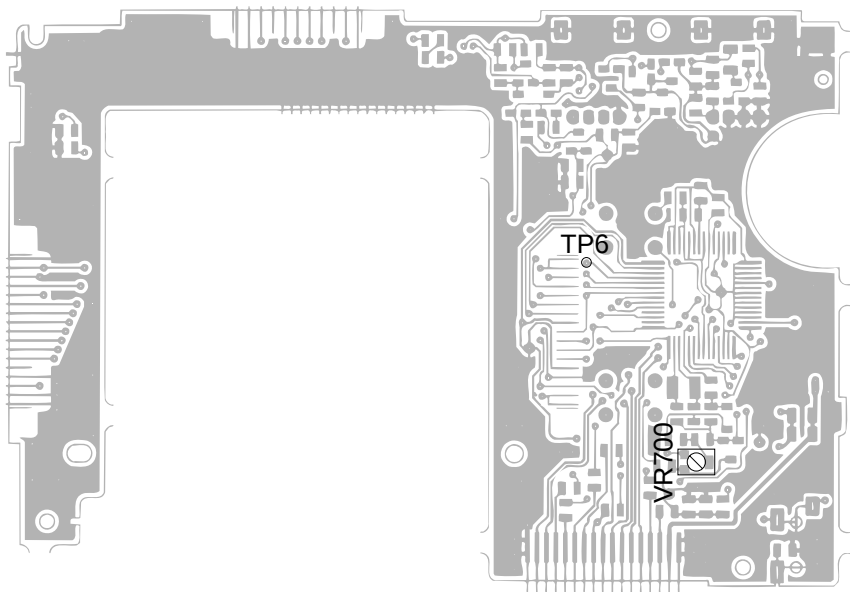
A/D PCB

Item to Be Adjusted

Item	Measuring Instrument
Clock adjustment	Voltmeter

Adjustment And Test Point Locations

TOP VIEW



Equipment Connection / Procedure

Clock Adjustment						
TV-600 Set Voltmeter Output TP6						
Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Result
_____	_____	_____	VR700	Voltmeter	TP6	Adjust for 2.05 ± 0.05 V reading on voltmeter.

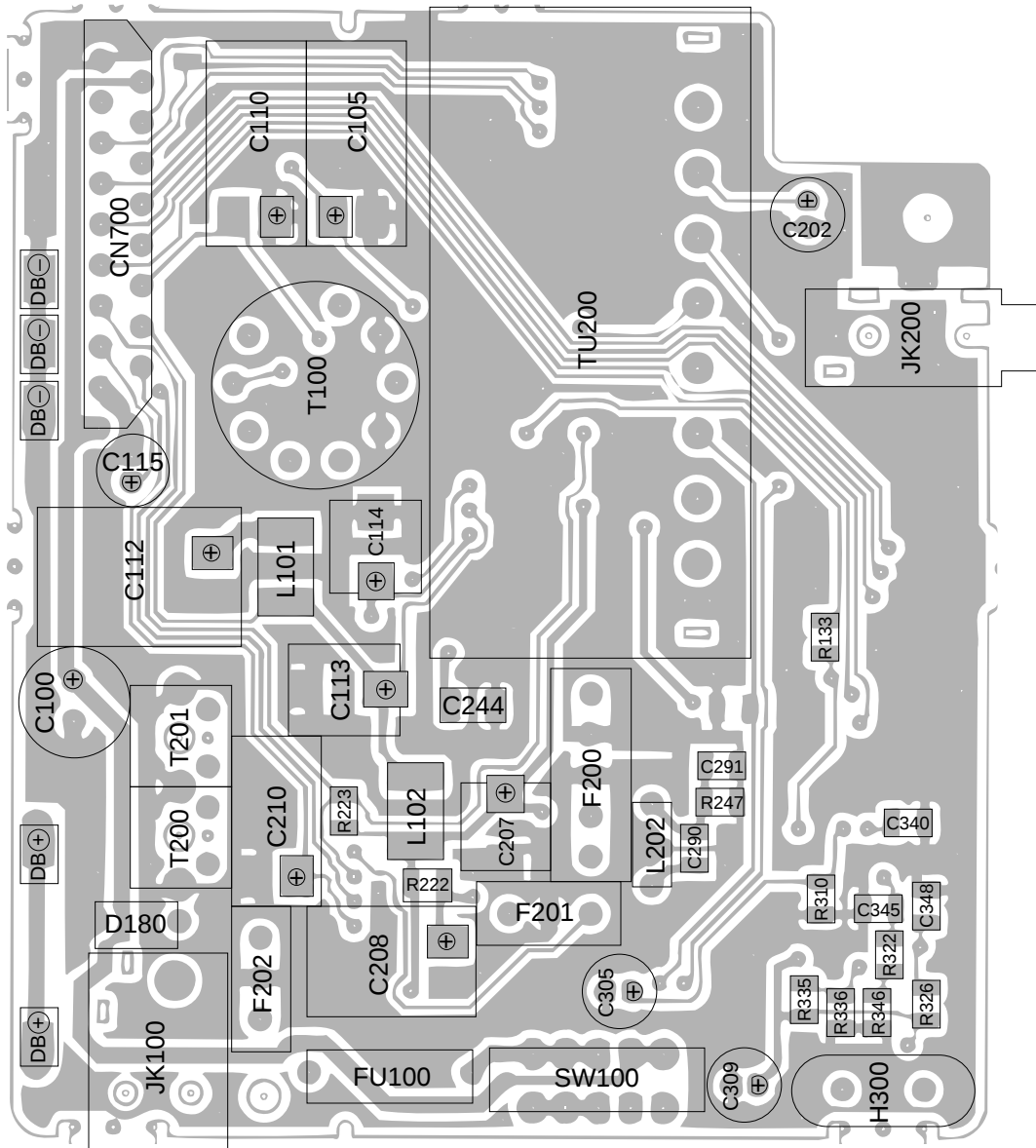
TROUBLESHOOTING

Symptom	Cause	Solution
No power supply	Defective power switch (SW100).	Replace.
No picture and no sound	Defective DC-DC converter (T100).	Replace.
	Defective tuner (TU200).	Replace.
	Defective Q200.	Replace.
	Defective IC200.	Replace.
	Defective IC300.	Replace.
	Defective IC500.	Replace.
	Defective IC700.	Replace.
Picture OK but no sound	Defective F201 (ceramic discriminator).	Replace.
	Defective IC200.	Replace.
	Defective IC700.	Replace.
	Defective phone jack (JK600).	Replace.
No reception of VHF or UHF	Defective tuner (TU200).	Replace.
	Defective IC500.	Replace.
	Defective power switch (SW100).	Replace.

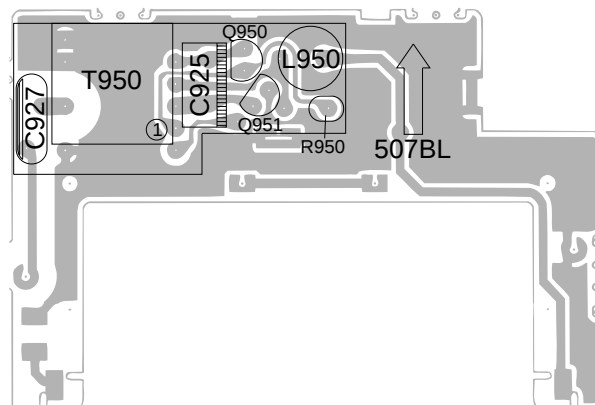
PRINTED CIRCUIT BOARDS

TOP VIEWS

Linear

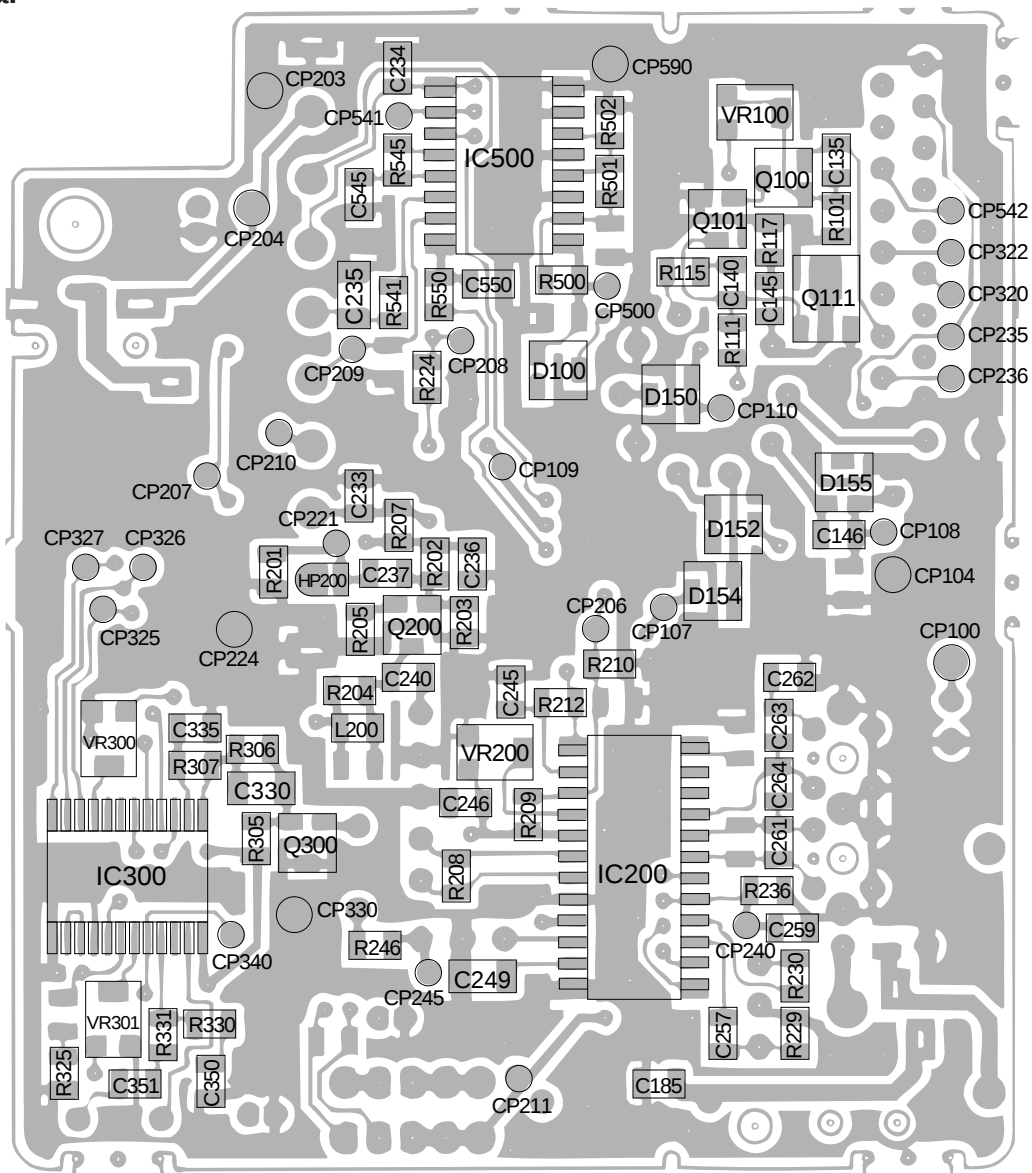


BL

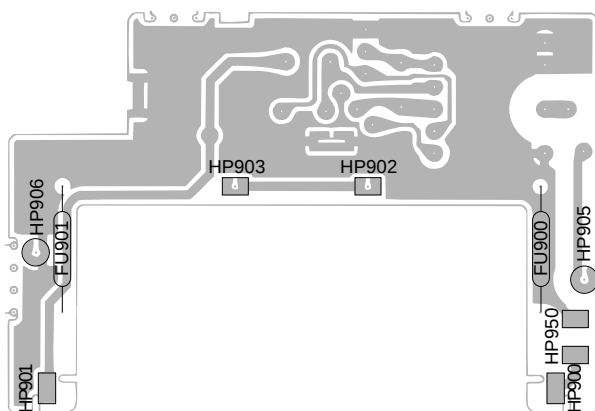


BOTTOM VIEWS

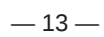
Linear



BL

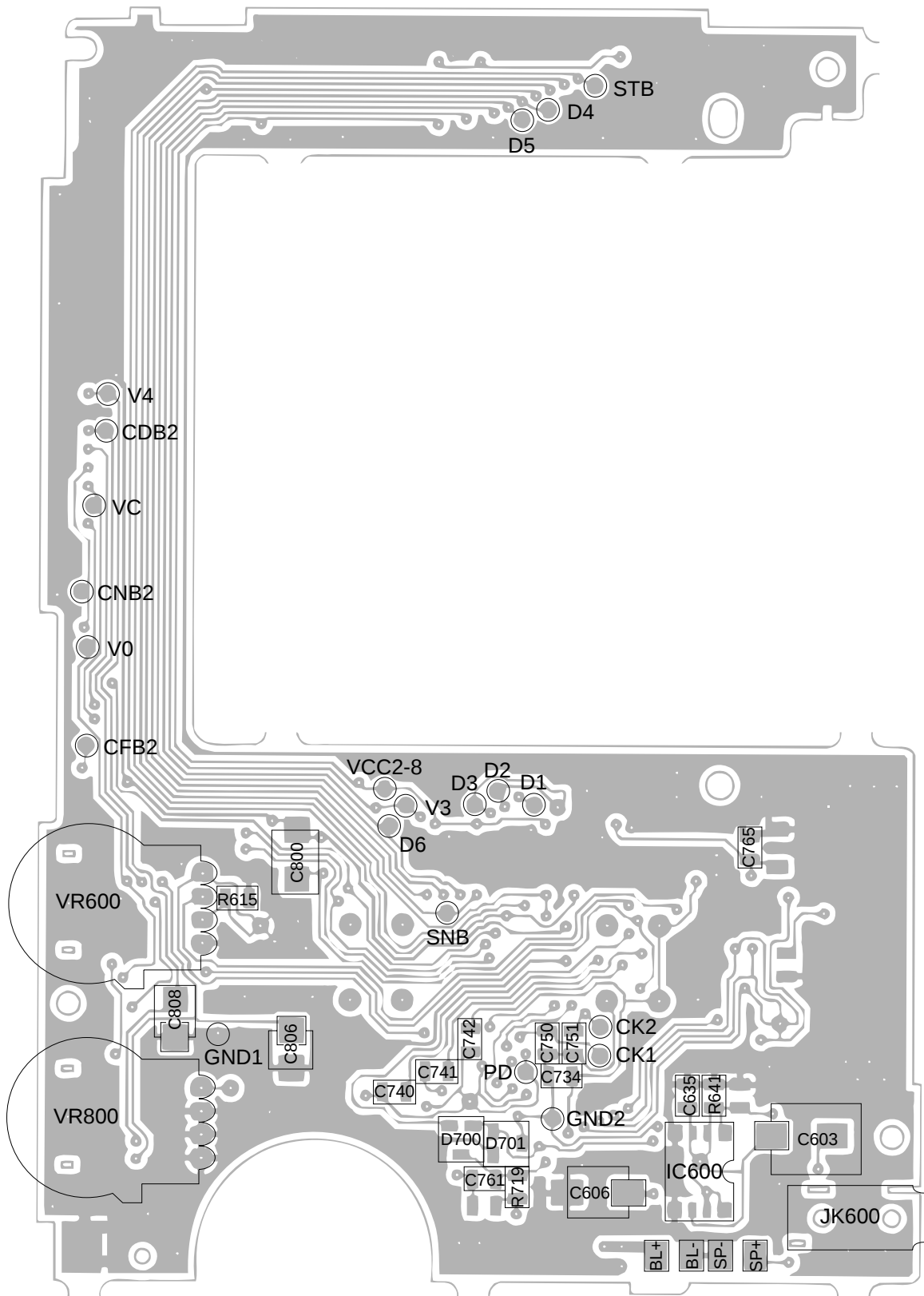


A/D



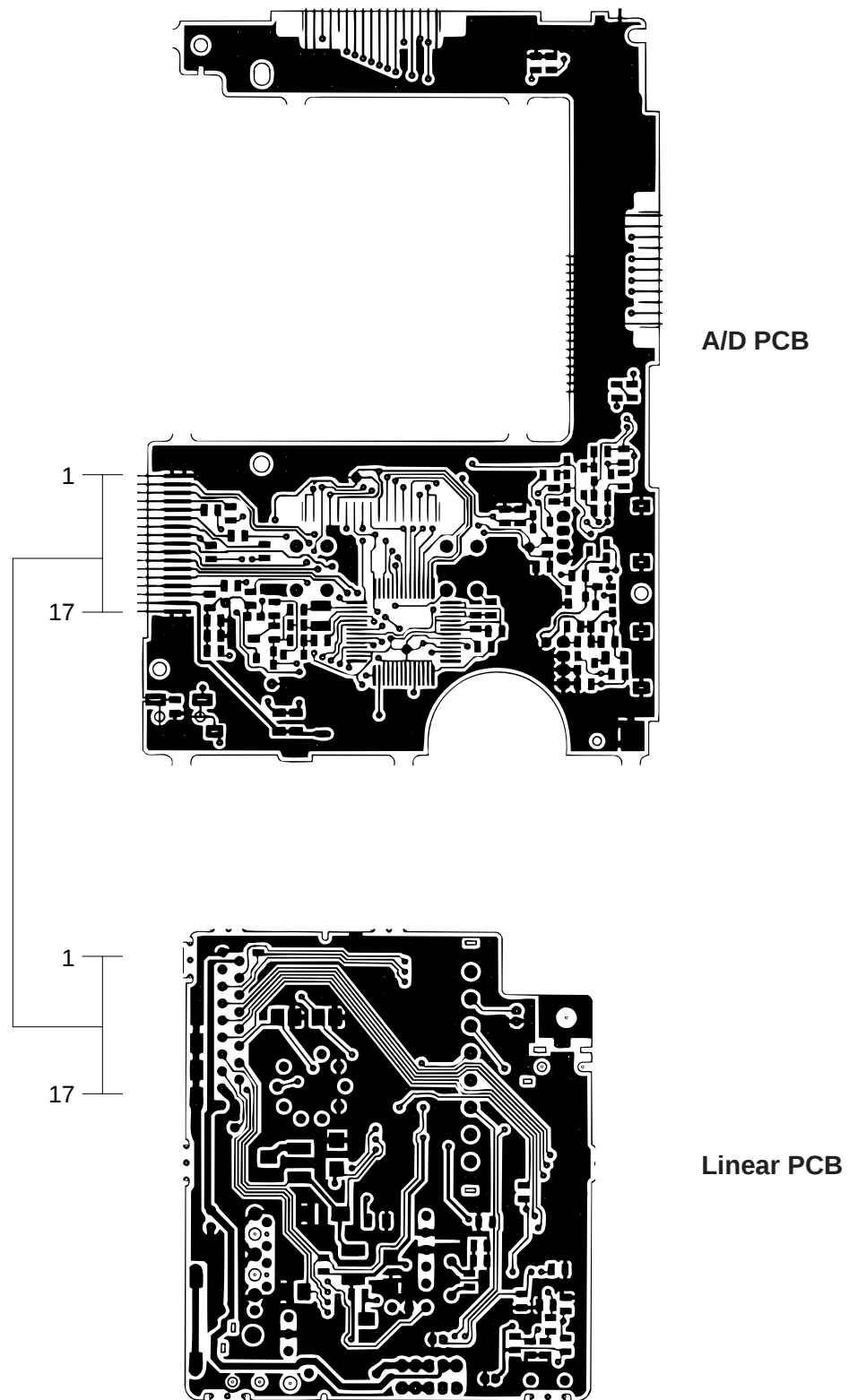
BOTTOM VIEW

A/D

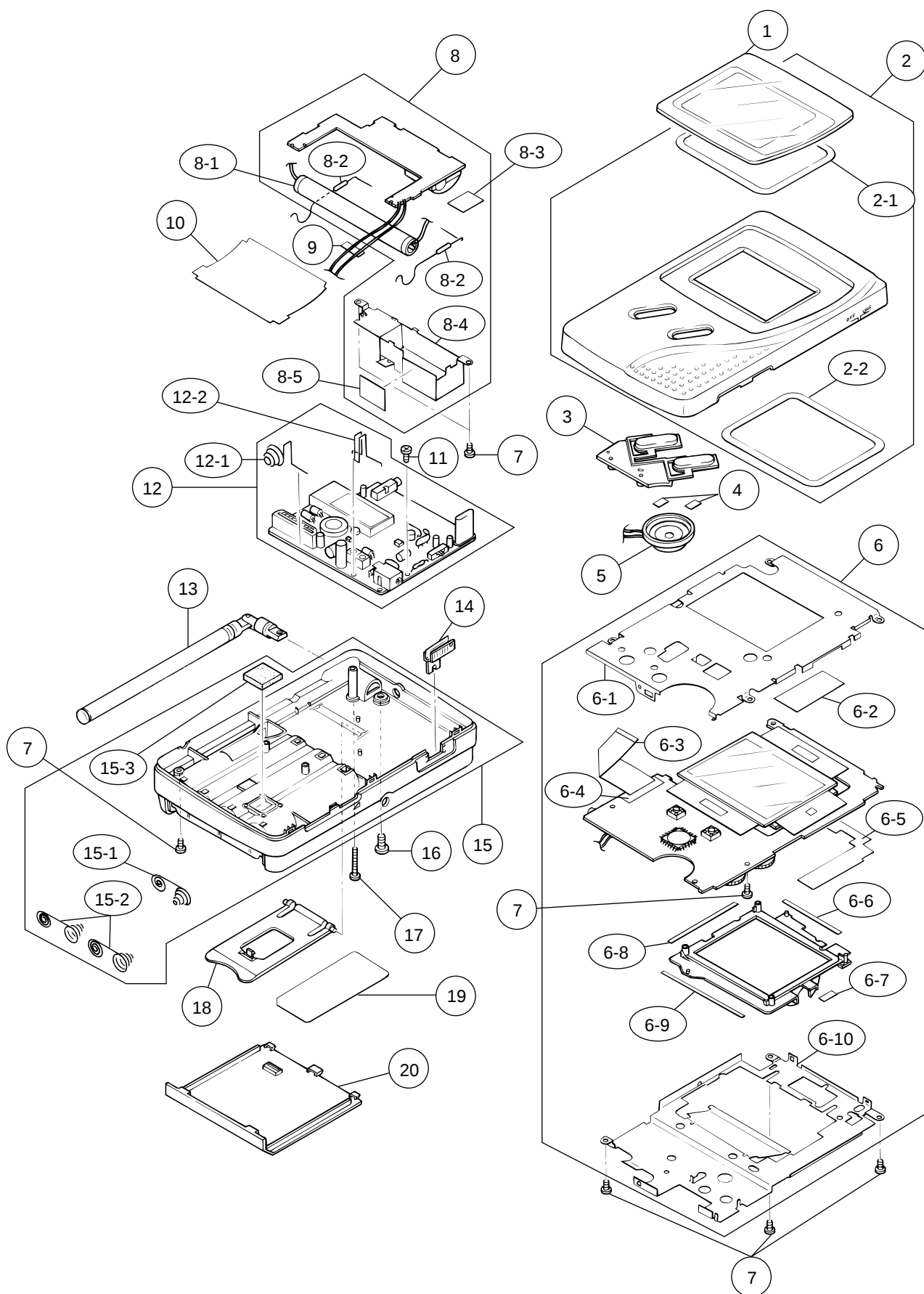


WIRING DIAGRAM

TOP VIEWS



EXPLODED VIEW / DISASSEMBLY



ELECTRICAL PARTS LIST

Linear PCB No. 1

N	Item	Code No.	Parts Name	Specification	Q	M	FOB Japan N.R.Yen Unit Price	R
Capacitors								
N	C100	2805 2180	Electrolytic capacitor (V)	10RE2-220	1	20	26	C
	C105	2807 6553	Electrolytic capacitor	6.3RV2-47-T	1	20	22	C
	C110	2805 2430	Electrolytic capacitor (V)	16RC2-10-G11	1	20	19	C
	C112	2806 9301	Electrolytic capacitor (V)	6.3RC2S-100-G11	1	20	16	C
N	C113	2828 5552	Electrolytic capacitor	6.3RV2-100-T	1	20	24	C
	C114	2807 6938	Electrolytic capacitor	50RV2-4R7-T	1	20	22	C
	C115	2805 9582	Electrolytic capacitor (V)	100RC2-1	1	20	14	C
	C135	2845 2324	Chip capacitor	21N1HB562K-T1	1	20	4	C
N	C140	2897 0259	Chip capacitor	GR40W5R332K50PT	1	20	7	C
	C145	2892 0016	Chip capacitor	GR40W5R102K50PT	1	20	11	C
	C146	2897 1617	Chip capacitor	GR40CH221J200PT	1	20	15	C
	C185	2892 0040	Chip capacitor	GR40Y5V104Z25PT	1	20	14	C
N	C202	2807 6553	Electrolytic capacitor	6.3RV2-47-T	1	20	22	C
	C207	2807 6553	Electrolytic capacitor	6.3RV2-47-T	1	20	22	C
	C208	2806 9315	Electrolytic capacitor (V)	ECA-0JKS470-FY	1	20	13	C
	C210	2804 9641	Electrolytic capacitor (V)	16RC310-G11	1	20	25	C
N	C233	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C234	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C235	2897 0924	Chip capacitor	GR42-6W5R823K50PT	1	20	18	C
	C236	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
N	C237	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C240	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C244	2895 2107	Tantalum capacitor	SK2-1C225M-RA	1	20	21	C
	C245	2892 0229	Chip capacitor	GR40W5R103K25PT	1	20	12	C
N	C246	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C249	2892 0844	Chip capacitor	GR42-6Y5V474Z16PT	1	20	27	C
	C257	2845 2387	Chip capacitor	21N1HCH270J-T1	1	20	3	C
	C259	2897 0539	Chip capacitor	GR40W5R223K50PT	1	20	12	C
N	C261	2845 3857	Chip capacitor	UMK212PH560J-T	1	20	4	C
	C262	2845 4522	Chip capacitor	UMK212PH470J-T	1	20	4	C
	C263	2845 3857	Chip capacitor	UMK212PH560J-T	1	20	4	C
	C264	2845 2366	Chip capacitor	21N1HCH0R5C-T1	1	20	3	C
N	C290	2845 5054	Chip capacitor	21N1HCH161J-T1	1	20	4	C
	C291	2845 5047	Chip capacitor	21N1HCH360J-T1	1	20	3	C
	C305	2804 9064	Electrolytic capacitor (V)	16RC2-10	1	20	9	C
	C309	2800 9182	Electrolytic capacitor	6.3RC2-47MS	1	20	15	C
N	C330	2897 1827	Chip capacitor	EMK316B474K-T	1	20	22	C
	C335	2845 2975	Chip capacitor	21N1HB471K-T1	1	20	3	C
	C340	2892 0229	Chip capacitor	GR40W5R103K25PT	1	20	12	C
	C345	2845 2975	Chip capacitor	21N1HB471K-T1	1	20	3	C
N	C346	2897 1904	Chip capacitor	TMK212B333K-T	1	20	7	C
	C348	2892 0040	Chip capacitor	GR40Y5V104Z25PT	1	20	14	C
	C350	2845 3745	Chip capacitor	21N1HCH181J-T1	1	20	4	C
	C351	2845 2485	Chip capacitor	21N1HCH220J-T1	1	20	3	C
N	C545	2897 1904	Chip capacitor	TMK212B333K-T	1	20	7	C
	C550	2845 4578	Chip capacitor	UMK212F683Z-T	1	20	4	C
Diodes								
	D100	2390 1176	Chip diode	MA152WK-(TX)	1	20	8	C
	D150	2390 1176	Chip diode	MA152WK-(TX)	1	20	8	C
	D152	2390 1176	Chip diode	MA152WK-(TX)	1	20	8	C
	D154	2390 1176	Chip diode	MA152WK-(TX)	1	20	8	C

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

Linear PCB No. 2

N	Item	Code No.	Parts Name	Specification	Q	M	FOB Japan N.R.Yen Unit Price	R
	D155	2390 1302	Chip diode	MA153A-(TX)	1	20	21	C
	D180	2390 1190	Chip diode	ERA15-01Y	1	20	9	C
Filters								
	F200	3025 0182	SAW filter	SAF45MA60Z	1	1	140	C
	F201	3025 0714	SIF filter	SFSL4.5MDB12	1	10	33	C
	F202	3851 1057	Ceramic discriminator	CDSL4.5MC30C12	1	10	42	C
Fuse								
	FU100	3632 0469	Fuse	PI-251001(F10)	1	10	52	C
Oscillator								
	H300	2590 0749	Crystal oscillator	HC-49U	1	1	110	C
ICs								
	IC200	2114 1827	Linear IC	M51348FP-T1	1	1	190	B
	IC300	2114 3332	Linear IC	M52042FP-T1	1	1	300	B
	IC500	2114 0182	Linear IC	MSC1169MS-KR1-620	1	1	140	B
Jacks								
	JK100	3501 9121	Jack	HEC3600-010610	1	10	30	C
	JK200	3501 5439	Jack	HSJ1456-01-210	1	20	27	C
Inductors								
N	L101	3013 1379	Chip inductor	LEM4532-101K-TP	1	20	24	C
	L102	3013 1379	Chip inductor	LEM4532-101K-TP	1	20	24	C
	L200	3013 1393	Chip inductor	LK2125-R82K-TP	1	20	26	C
	L202	3013 1659	Chip inductor	PL0203S-8R2J-7	1	20	16	C
Transistors								
	Q100	2210 8026	Chip transistor	2SB709A-R(TX)	1	20	23	C
	Q101	2230 7011	Chip transistor	2SD601A-R(TX)	1	20	22	C
	Q111	2253 0308	Chip transistor	2SD1119-R(TX)	1	10	37	C
	Q200	2252 0707	Chip transistor	2SC4238-(TX)	1	20	17	C
	Q300	2210 8026	Chip transistor	2SB709A-R(TX)	1	20	23	C
Resistors								
	R101	2791 1595	Chip resistor	ERJ-6GEYJ153V	1	20	4	C
	R111	2791 0815	Chip resistor	ERJ-6GEYJ102V	1	20	5	C
	R115	2791 2117	Chip resistor	ERJ-6GEYJ820V	1	20	4	C
	R117	2791 0696	Chip resistor	ERJ-6GEYJ470V	1	20	4	C
	R133	2791 1617	Chip resistor	ERJ-6GEYJ100V	1	20	3	C
	R201	2791 2117	Chip resistor	ERJ-6GEYJ820V	1	20	4	C
	R202	2791 0305	Chip resistor	ERJ-6GEYJ472V	1	20	3	C
	R203	2791 0720	Chip resistor	ERJ-6GEYJ222V	1	20	3	C
	R204	2791 0704	Chip resistor	ERJ-6GEYJ561V	1	20	4	C
	R205	2791 0688	Chip resistor	ERJ-6GEYJ220V	1	20	3	C
	R207	2791 1161	Chip resistor	ERJ-6GEYJ151V	1	20	5	C
	R208	2791 0734	Chip resistor	ERJ-6GEYJ272V	1	20	3	C
	R209	2791 0313	Chip resistor	ERJ-6GEYJ103V	1	20	5	C
	R210	2791 0305	Chip resistor	ERJ-6GEYJ472V	1	20	3	C
	R212	2791 0720	Chip resistor	ERJ-6GEYJ222V	1	20	3	C
	R222	2791 0696	Chip resistor	ERJ-6GEYJ470V	1	20	4	C
	R223	2791 0615	Chip resistor	ERJ-6GEYJ154V	1	20	5	C
	R224	2797 1127	Chip resistor	ERJ-6GEYK475V	1	20	3	C
	R229	2791 1170	Chip resistor	ERJ-6GEYJ182V	1	20	3	C
	R230	2791 0704	Chip resistor	ERJ-6GEYJ561V	1	20	4	C
	R236	2791 2044	Chip resistor	ERJ-6GEYJ124V	1	20	3	C
	R246	2791 1420	Chip resistor	ERJ-6GEYJ331V	1	20	6	C
	R247	2791 0720	Chip resistor	ERJ-6GEYJ222V	1	20	3	C
	R305	2791 0815	Chip resistor	ERJ-6GEYJ102V	1	20	5	C
	R306	2791 1390	Chip resistor	ERJ-6GEYJ473V	1	20	5	C

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

Linear PCB No. 3

N	Item	Code No.	Parts Name	Specification	Q	M	FOB Japan N.R.Yen Unit Price	R
	R307	2791 0712	Chip resistor	ERJ-6GEYJ152V	1	20	4	C
	R310	2791 1579	Chip resistor	ERJ-6GEYJ474V	1	20	4	C
	R322	2791 1390	Chip resistor	ERJ-6GEYJ473V	1	20	5	C
	R326	2797 1925	Chip resistor	ERJ-6GEYK335V	1	20	3	C
	R330	2795 3829	Chip resistor	ERJ-6GEYJ302V	1	20	3	C
	R331	2797 1589	Chip resistor	ERJ-6GEYJ511V	1	20	3	C
	R335	2791 0750	Chip resistor	ERJ-6GEYJ223V	1	20	6	C
	R336	2791 0769	Chip resistor	ERJ-6GEYJ563V	1	20	3	C
	R500	2791 0777	Chip resistor	ERJ-6GEYJ104V	1	20	5	C
	R501	2791 0769	Chip resistor	ERJ-6GEYJ563V	1	20	3	C
	R502	2791 1919	Chip resistor	ERJ-6GEYJ274V	1	20	3	C
	R541	2791 0750	Chip resistor	ERJ-6GEYJ223V	1	20	6	C
	R545	2791 1579	Chip resistor	ERJ-6GEYJ474V	1	20	4	C
	R550	2791 0815	Chip resistor	ERJ-6GEYJ102V	1	20	5	C
Switch								
	SW100	3412 0798	Slide switch	ESD-11H231	1	10	47	C
Coils and Converter								
	T100	3065 0441	DC-DC converter	LC12U-29	1	5	73	C
	T200	3841 0721	Coil	5KVC-07A	1	10	48	C
	T201	3841 0728	Coil	5KAC-02A	1	10	49	C
Tuner								
	TU200	1013 5511	Tuner	TEPU5-02	1	1	760	C
Variable resistors								
	VR100	2775 1316	Semi-fixed resistor	EVM-1SSW50B53	1	20	27	C
	VR200	2775 1211	Semi-fixed resistor	EVM-1SSW50B54	1	20	27	C
	VR300	2775 1211	Semi-fixed resistor	EVM-1SSW50B54	1	20	27	C
	VR301	2775 1211	Semi-fixed resistor	EVM-1SSW50B54	1	20	27	C

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

A/D PCB No. 1

N	Item	Code No.	Parts Name	Specification	Q	M	FOB Japan N.R.Yen Unit Price	R
Capacitor								
N	C603	2828 5552	Electrolytic capacitor	6.3RV2-100-T	1	20	24	C
	C606	2828 5552	Electrolytic capacitor	6.3RV2-100-T	1	20	24	C
	C630	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C635	2897 2114	Chip capacitor	EMK212F105Z-T	1	20	9	C
	C642	2892 0040	Chip capacitor	GR40Y5V104Z25PT	1	20	14	C
	C734	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C740	2892 0040	Chip capacitor	GR40Y5V104Z25PT	1	20	14	C
	C741	2892 0040	Chip capacitor	GR40Y5V104Z25PT	1	20	14	C
	C742	2892 0040	Chip capacitor	GR40Y5V104Z25PT	1	20	14	C
	C750	2892 0300	Chip capacitor	GR40CH470J50PT	1	20	10	C
	C751	2892 0300	Chip capacitor	GR40CH470J50PT	1	20	10	C
	C755	2892 0903	Chip capacitor	GR40UJ270J50PT	1	20	10	C
	C756	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C758	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C760	2892 0237	Chip capacitor	GR40W5R222K50PT	1	20	9	C
N	C761	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C765	2897 2114	Chip capacitor	EMK212F105Z-T	1	20	9	C
	C770	2892 0059	Chip capacitor	GR40Y5V103Z50PT	1	20	9	C
	C775	2892 0016	Chip capacitor	GR40W5R102K50PT	1	20	11	C
	C806	2807 7015	Chip electrolytic capacitor	50RV2-3R3-T	1	20	18	C
N	C808	2807 6735	Chip electrolytic capacitor	50RV2-2R2-T	1	20	18	C
	C830	2897 2114	Chip capacitor	EMK212F105Z-T	1	20	9	C
	C835	2892 0016	Chip capacitor	GR40W5R102K50PT	1	20	11	C
N	C836	2892 0040	Chip capacitor	GR40Y5V104Z25PT	1	20	14	C
	C840	2897 0021	Chip capacitor	GR40Y5V683Z50PT	1	20	27	C
	C841	2845 5089	Chip capacitor	UMK316F474Z-T	1	20	12	C
	C845	2892 0288	Chip capacitor	GR40CH100D50PT	1	20	10	C
Connector								
N	CN700	3501 8631	Connector	9603S-17C	1	20	27	C
Diodes								
	D700	2390 1176	Chip diode	MA152WK-(TX)	1	20	8	C
	D701	2390 1253	Chip diode	MA152WA-(TX)	1	20	8	C
	D705	2390 1358	Variable diode	MA329-(TX)	1	10	30	C
	D707	2360 0854	Chip diode	MA3100-M(TX)	1	20	17	C
	D800	2360 1652	Chip diode	MA3075-H(TX)	1	20	14	C
	D803	2390 0469	Chip diode	MA157A-(TX)	1	20	19	C
	D805	2390 1253	Chip diode	MA152WA-(TX)	1	20	8	C
ICs								
	IC600	2114 2464	Linear IC	NJM2070M	1	5	65	B
	IC700	2011 3514	LSI	MSM6625-02GSK-640F	1	1	280	B
Jack								
	JK600	3501 5439	Jack	HSJ1456-01-210	1	20	27	C
Inductor								
N	L705	3013 1666	Chip inductor	LEM3225-270J-TP	1	20	23	C
Transistors								
	Q800	2230 7011	Chip transistor	2SD601A-R(TX)	1	20	22	C
	Q801	2210 8026	Chip transistor	2SB709A-R(TX)	1	20	23	C
	Q802	2230 7011	Chip transistor	2SD601A-R(TX)	1	20	22	C
	Q804	2230 7011	Chip transistor	2SD601A-R(TX)	1	20	22	C
	Q805	2253 0476	Chip transistor	2SD1149-S(TX)	1	20	17	C
	Q806	2230 7011	Chip transistor	2SD601A-R(TX)	1	20	22	C
Resistors								
	R606	2791 0343	Chip resistor	ERJ-8GEYJ150V	1	20	5	C

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

A/D PCB No. 2

N	Item	Code No.	Parts Name	Specification	Q	M	FOB Japan N.R.Yen Unit Price	R
N N	R607	2791 0343	Chip resistor	ERJ-8GEYJ150V	1	20	5	C
	R610	2797 1617	Chip resistor	ERJ-6GEYJ752V	1	20	3	C
	R611	2791 0815	Chip resistor	ERJ-6GEYJ102V	1	20	5	C
	R615	2797 1785	Chip resistor	ERJ-6GEYJ242V	1	20	2	C
	R641	2791 0777	Chip resistor	ERJ-6GEYJ104V	1	20	5	C
	R645	2791 0696	Chip resistor	ERJ-6GEYJ470V	1	20	4	C
	R700	2791 1390	Chip resistor	ERJ-6GEYJ473V	1	20	5	C
	R704	2791 2141	Chip resistor	ERJ-6GEYJ273V	1	20	4	C
	R706	2791 0815	Chip resistor	ERJ-6GEYJ102V	1	20	5	C
	R707	2791 1650	Chip resistor	ERJ-6GEYJ122V	1	20	3	C
	R710	2797 2191	Chip resistor	ERJ-6GEYK6R8V	1	20	3	C
	R719	2792 0110	Chip jumper	ERJ-6GEY0R00V	1	20	3	C
	R725	2797 0245	Chip resistor	ERJ-6GEYJ181V	1	20	2	C
	R726	2797 2331	Chip resistor	ERJ-6GEYF681V	1	20	4	C
	R727	2797 3605	Chip resistor	ERJ-6GEYF821V	1	20	3	C
	R730	2791 2079	Chip resistor	ERJ-6GEYJ562V	1	20	3	C
	R733	2791 0777	Chip resistor	ERJ-6GEYJ104V	1	20	5	C
	R738	2791 2052	Chip resistor	ERJ-6GEYJ224V	1	20	3	C
	R740	2791 1633	Chip resistor	ERJ-6GEYJ123V	1	20	3	C
	R800	2791 1390	Chip resistor	ERJ-6GEYJ473V	1	20	5	C
	R803	2791 0815	Chip resistor	ERJ-6GEYJ102V	1	20	5	C
	R808	2791 0599	Chip resistor	ERJ-6GEYJ822V	1	20	5	C
	R809	2791 1595	Chip resistor	ERJ-6GEYJ153V	1	20	4	C
	R810	2791 1595	Chip resistor	ERJ-6GEYJ153V	1	20	4	C
	R814	2791 0750	Chip resistor	ERJ-6GEYJ223V	1	20	6	C
	R815	2791 2079	Chip resistor	ERJ-6GEYJ562V	1	20	3	C
	R816	2791 0750	Chip resistor	ERJ-6GEYJ223V	1	20	6	C
	R820	2797 1127	Chip resistor	ERJ-6GEYK475V	1	20	3	C
	R824	2797 3801	Chip resistor	RR1220P-153-D	1	20	3	C
	R825	2797 3808	Chip resistor	RR1220R-114-D	1	20	3	C
	R827	2791 0607	Chip resistor	ERJ-6GEYJ333V	1	20	4	C
	R830	2791 2052	Chip resistor	ERJ-6GEYJ224V	1	20	3	C
	R833	2791 0750	Chip resistor	ERJ-6GEYJ223V	1	20	6	C
Switches								
	SW700	3412 1029	Switch	SKHHAL	1	20	12	C
	SW701	3412 1029	Switch	SKHHAL	1	20	12	C
Variable Resistors								
	VR600	2765 0616	Volume	RK09H11T-10KB	1	5	60	C
	VR700	2775 1323	Semi-fixed resistor	EVM-1SSW50B15	1	20	26	C
	VR800	2765 1127	Volume	RK09H11T-100KC	1	5	60	C

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

BL PCB

N	Item	Code No.	Parts Name	Specification	Q	M	FOB Japan N.R.Yen Unit Price	R
Capacitors								
N	C925	2825 0434	TF capacitor	ECQ-V1H184JL	1	20	19	C
	C927	2813 2814	Ceramic capacitor	DE0805SL151J2K	1	20	14	C
Fuses								
	FU900	3632 0308	Temperature fuse	EYP-1BF102L	1	20	27	B
	FU901	3632 0308	Temperature fuse	EYP-1BF102L	1	20	27	B
Coil								
	L950	3013 0756	Choke coil	RCH-875-101K	1	5	55	C
Lamp								
	LA900	3851 1085	Fluorescent lamp	8.67AC1P2-C	1	1	350	C
Transistors								
	Q950	2253 0287	Chip transistor	2SD965-R	1	10	37	C
	Q951	2253 0287	Chip transistor	2SD965-R	1	10	37	C
Resistor								
	R950	2609 0266	Carbon film resistor	ERD-S2TJ821A	1	20	2	C
Transformer								
	T950	3012 0574	Inverter	NT-01	1	1	240	C

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

MECHANICAL PARTS LIST

N	Item	Code No.	Parts Name	Specification	Q	M	FOB Japan N.R.Yen Unit Price	R
N	1	6609 5750	Display plate BIM-K507	K412075-2	1	1	110	C
N	2	6630 6833	Upper case ass'y	K311716*5	1	1	590	X
N	2-1	6609 2820	Adhesive tape A-K507	K412077-1	1	20	16	X
N	2-2	6609 2830	Adhesive tape B-K507	K412078-1	1	20	15	X
N	3	6609 2840	Tuning button A-K507	K311575-1	1	20	25	X
N	4	6608 9810	Adhesive tape C-K613	K412009-2	2	20	2	X
	5	6609 3377	Speaker	K412231*1	1	1	100	C
	6	6609 3395	Display unit	K110806*1	1	1	3,200	B
N	6-1	6609 2750	Shield case A-K507	K110767-1	1	10	34	X
	6-2	6630 0020	Insulation plate G-K63	K4728-7	1	20	3	X
N	6-3	6609 2880	Flat cable K507	K412081-1	1	10	40	C
	6-4	6605 1720	Felt A-K333	K410292-1	1	20	4	X
N	6-5	6609 2770	Insulation plate A-K507	K412079-1	1	20	17	X
	6-6	6608 7271	Adhesive tape B-K502	K410903A-2	1	20	3	X
	6-7	6606 6201	Adhesive tape C-K502	K410903A-3	1	20	3	X
	6-8	6602 6970	Adhesive tape A-K59	K4332-6	1	20	3	X
	6-9	6606 4160	Adhesive tape A-K502	K410903-1	1	20	2	X
N	6-10	6609 2760	Shield case B-K507	K110768-1	1	10	37	X
	7	5112 0868	Screw	BT3 1.7X5 Bk	5	20	3	X
N	8	6630 6351	BL unit	K311715*1	1	1	1,900	B
	8-1	3851 1085	Fluorescent lamp	8.67AC1P2-C	1	1	350	C
	8-2	3632 0308	Temperature fuse	EYP-1BF102L	2	20	27	B
	8-3	6607 0690	Insulation sheet D-K508	K410441-3	1	20	7	X
N	8-4	6609 2730	Shield case C-K507	K311573-1	1	10	50	X
N	8-5	6603 9090	Insulation sheet A-K310	K4728-8	1	20	6	X
	9	6601 1700	Felt A-K60	K4117-3	1	20	3	X
N	10	6609 2851	Reflector K507	K412080A-1	1	10	36	X
	11	5860 0301	Screw	BT3 1.7X3.5 NI	1	20	3	X
N	12	6630 6834	Linear PCB ass'y	K440053*1	1	1	5,600	B
N	12-1	6606 4522	Battery spring A-K502	K410845B-1	1	20	14	C
	12-2	6606 4531	Battery spring B-K502	K410846A-1	1	20	14	C
	13	3851 1470	Rod antenna	VR70100GA	1	1	180	B
N	14	6609 2780	Switch knob A-K507	K311574-1	1	20	25	C
N	15	6630 6461	Lower case ass'y	K311718*1	1	1	610	C
	15-1	6020 7658	Battery spring B1 G513	P408A-1	1	20	23	C
	15-2	6020 7666	Battery spring B2 G513	P409A-1	2	20	23	C
	15-3	6606 6390	Cushion A-K502	K410731-2	1	20	6	X
	16	6609 1290	Screw A-K610	K412031-1	1	20	3	X
	17	6604 9980	Screw A-K334	K410188-1	1	20	3	X
	18	6608 8420	Stand A-K331	K310518-1	1	10	36	X
N	19	6609 5730	Rating plate BIM-K507	K412076-3	1	20	26	X
N	20	6609 2860	Battery cover A-K507	K211231-1	1	10	44	C

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

IC AND TRANSISTOR LEAD IDENTIFICATION

IC/LSI

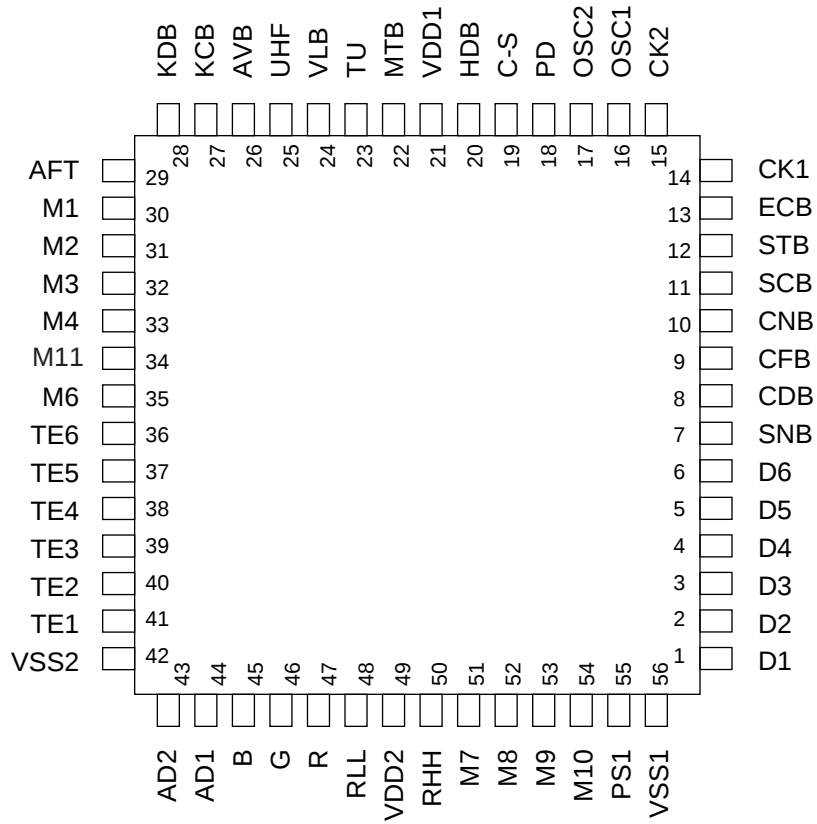
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IF AGC OUT	1	24	IF AGC ADJ
IF AGC IN	2	23	SyOUT
RF AGC	3	22	SyIN
AGCDL	4	21	AFTC
VCCv	5	20	LLD
IFIN	6	19	LLD
IFIN	7	18	VIDEO
GNDv	8	17	AFT
VCCs	9	16	SIFOUT
SIFIN	10	15	FMD
FB	11	14	ATT
GNDs	12	13	AUDIO

IC300 M52042FP			
	○		
VIDEO	1	24	VCC
SY IN	2	23	VCXO OUT
ACCF	3	22	Fsc
SY OUT	4	21	VCXO IN
HDIN	5	20	COLOR
Y CLAMP	6	19	TINT
Y LPF	7	18	KILLER RF
Y OUT	8	17	APCF
CONT	9	16	SW
R	10	15	KILLER OUT
G	11	14	PIX
B	12	13	GND

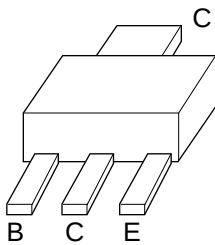
IC500 MSC1169MS-K			
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Vref	1	16	VCC
U1	2	15	BS
U2	3	14	BT
VL1	4	13	IN
VL2	5	12	OUT
VH1	6	11	TU
VH2	7	10	H/L
GND	8	9	U/V

IC600 NJM2070M			
	○		
NC	1	8	NC
+IN	2	7	VCC
-IN	3	6	OUT
GND	4	5	GND

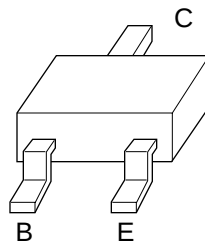
IC700
MSM6625-02GSK-640F



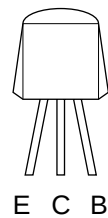
TRANSISTORS



2SD1119



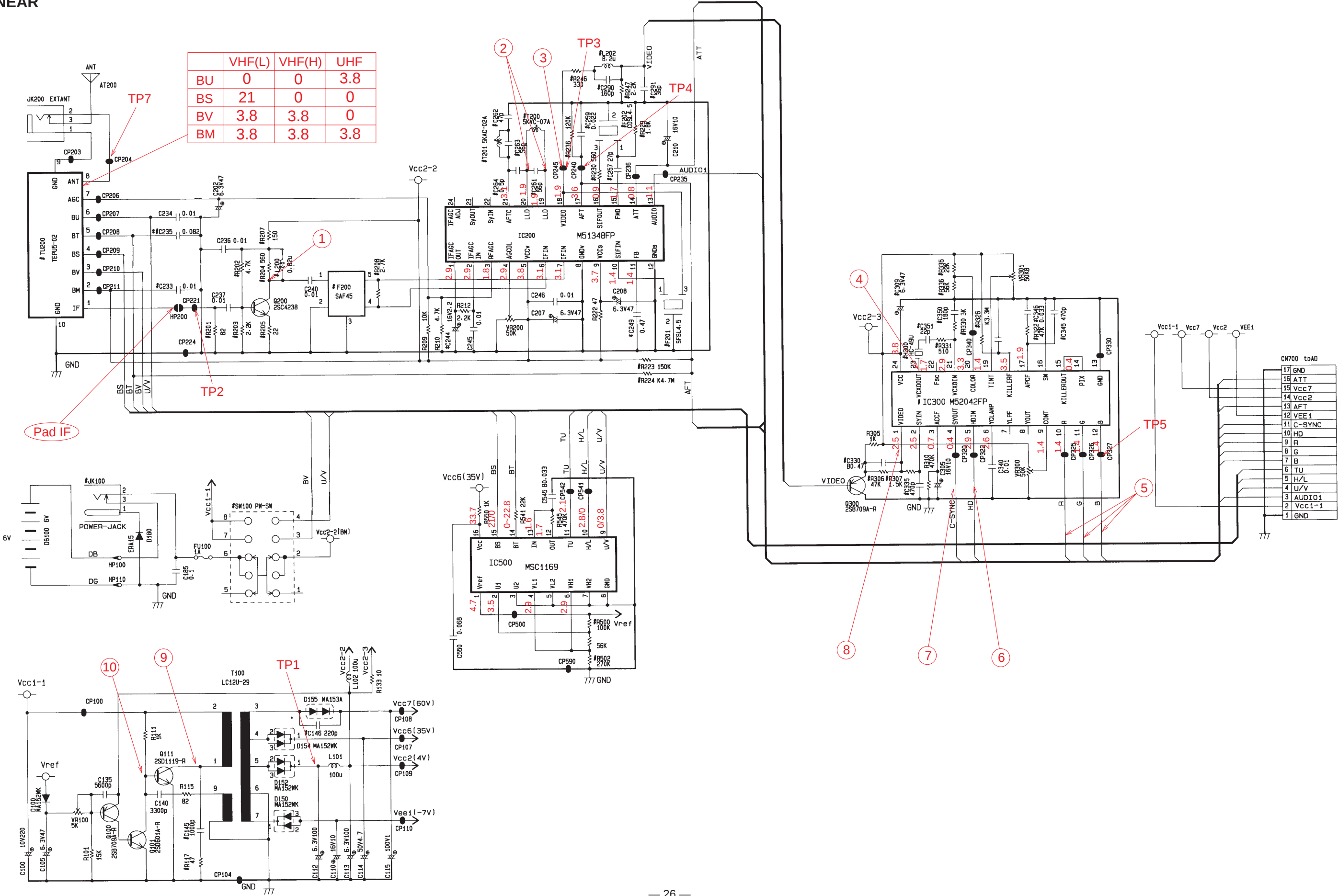
2SB709A 2SD601A
2SC4238 2SD1149-S



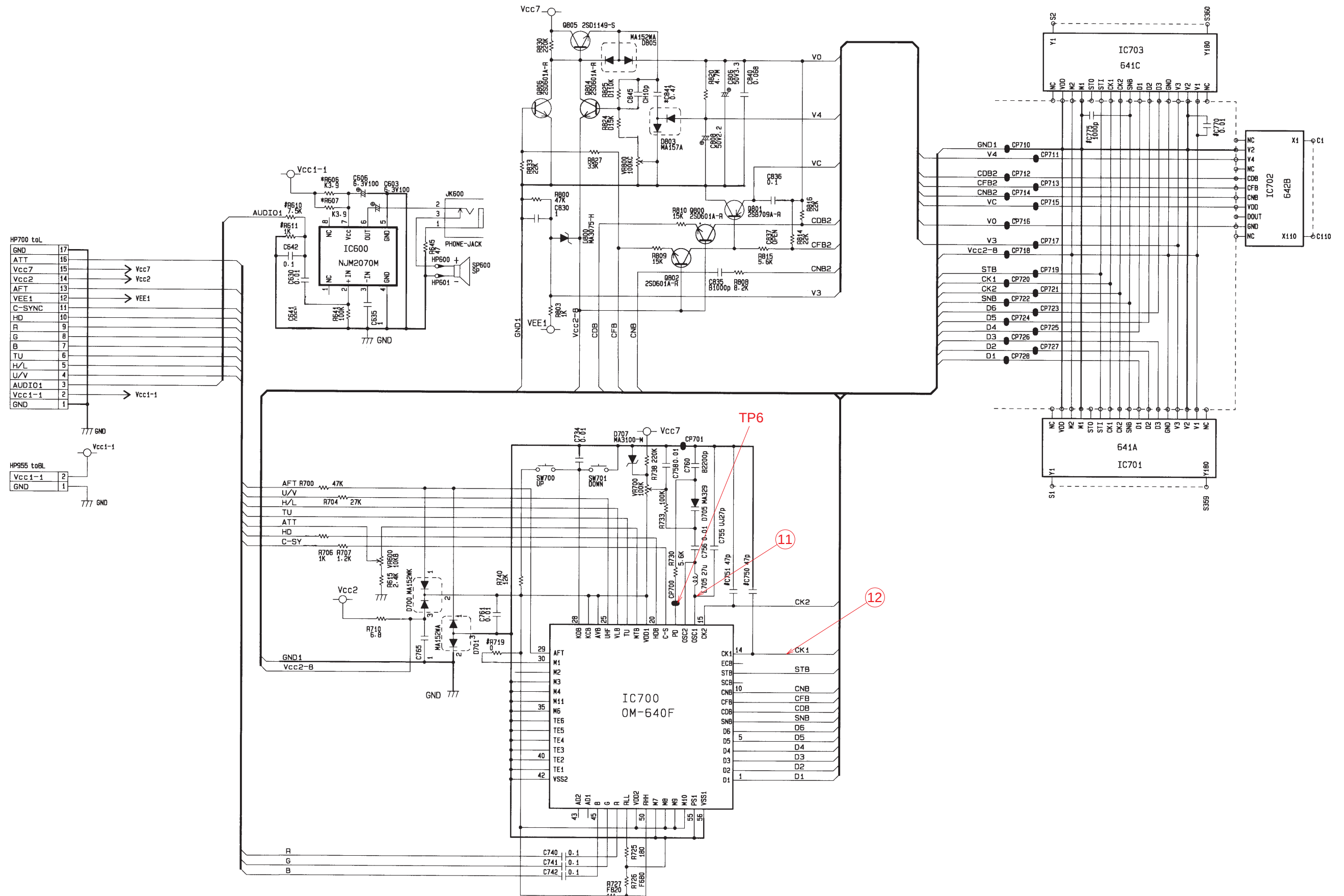
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LINEAR

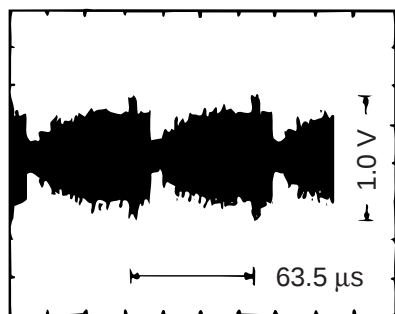
SCHEMATIC DIAGRAMS AND WAVEFORMS



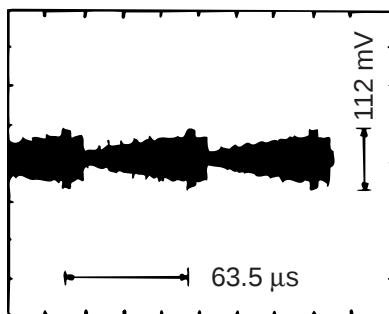
A/D



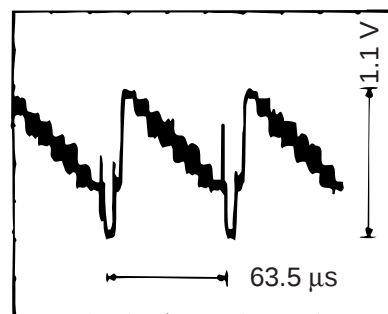
WAVEFORMS



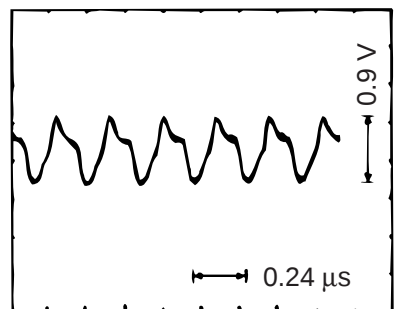
① Q200 Collector



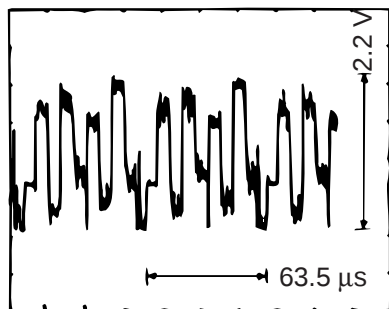
② IC200 Pin 19



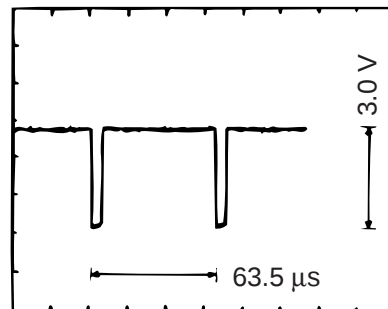
③ IC200 Pin 18



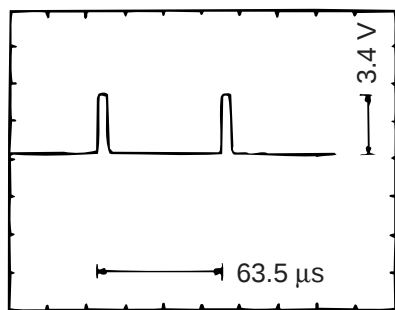
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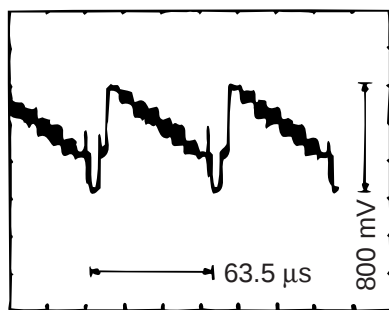
⑤ IC300 Pins 10, 11, 12



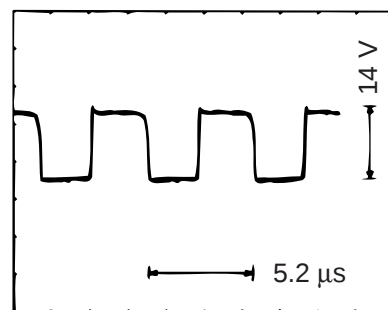
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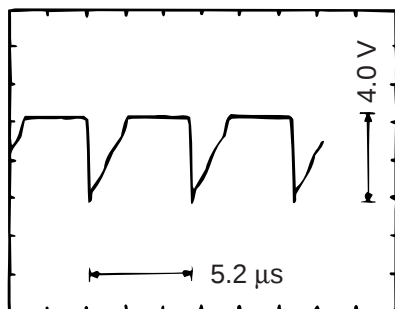
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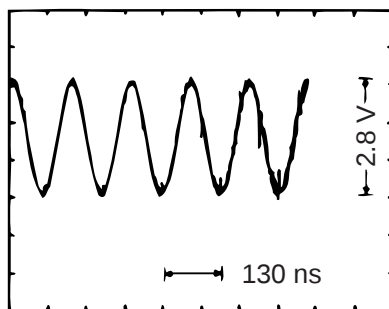
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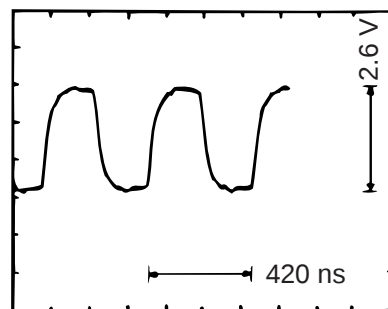
⑨ Q111 Collector



⑩ Q111 Base



⑪ IC700 Pin 16



⑫ IC700 Pin 14

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