

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

POCKET TELEVISION

TV-350C

OCTOBER 1994

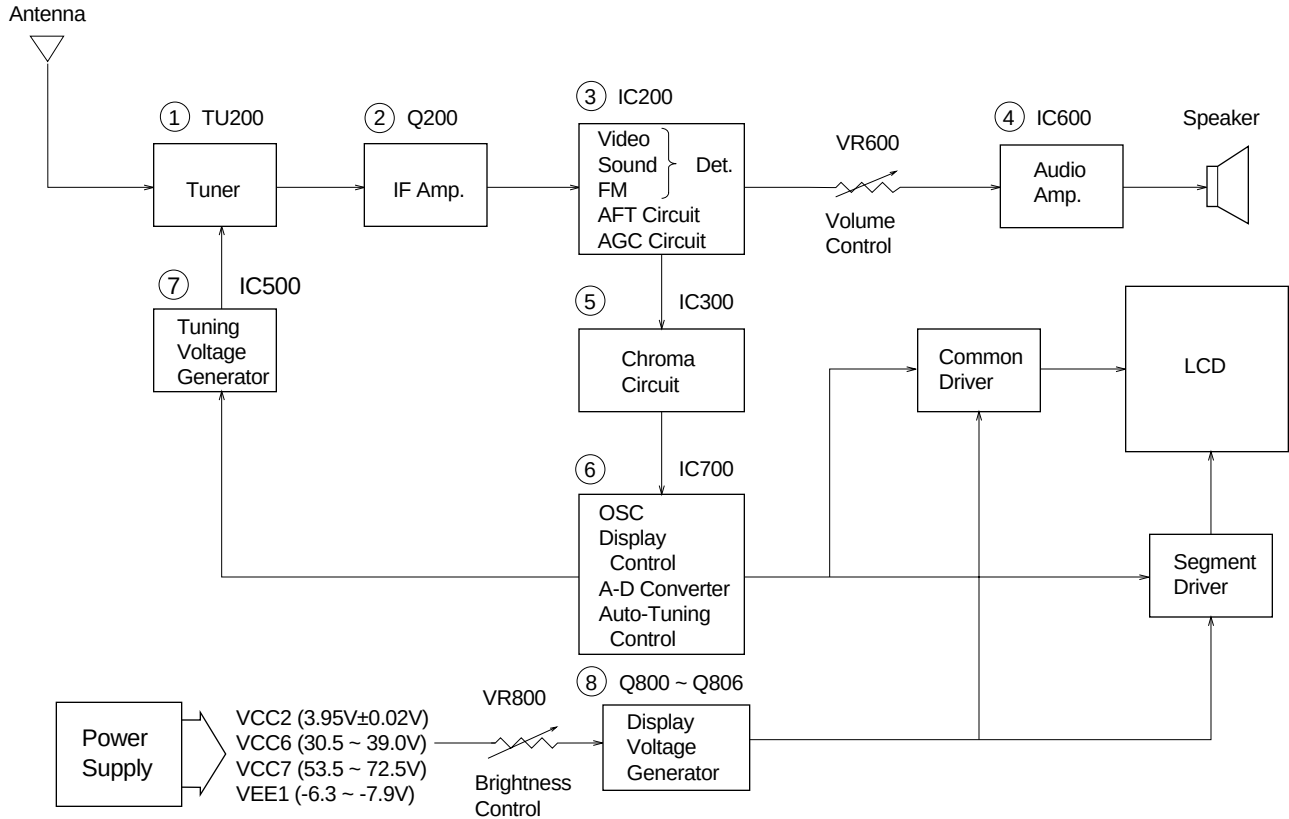
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CASIO®

SPECIFICATIONS

Item	Specification
Reception Channels	VHF: Ch 2 ~ 12 ch UHF: Ch 21 ~ 69
Power Voltage	DC 6.0 V
Power Consumption	Approx. 3.0 W
Current Consumption	Approx. 500 mA
Battery Life (with alkaline batteries)	Approx. 3.0 hours
Power Supply	Batteries : 4 AA size batteries Car adaptor : CA-K65 AC adaptor : AD-K65
Connection Terminals	Earphone jack : 3.5ø mini External power jack : 6.0 V DC IN
Screen Size	1.6 inches
No. of Picture Element	39,600 (110 × 360) dots
Dimensions	122 mm (H) × 66 mm (ø)
Weight	210 g excluding batteries 7.4 oz excluding batteries
Options	AC adaptor : AD-K65 Car adaptor : CA-K65

BLOCK DIAGRAM



- ① — Color Tuner: TU200 TEPE5-01
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 (20dB).
- 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 M52045FP
Generates the tricolor (red, green, and blue) from the video signal.
- ⑥ — OSC/A-D Converter/Display control/ Auto-Tuning Control : IC700 MSM662502 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 ~ Q806 2SB1218A-R, 2SD1824R, S × 2, 2SD1819A-R × 5, 2SD1824-5
Generates the display voltages V0 ~ V4 with VEE1 and VCC7 outputs from the power supply.

ADJUSTMENT

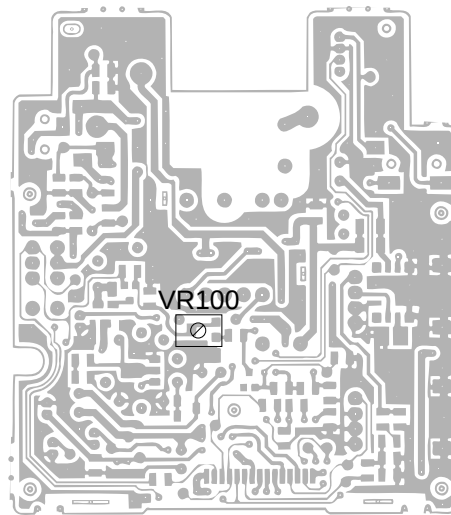
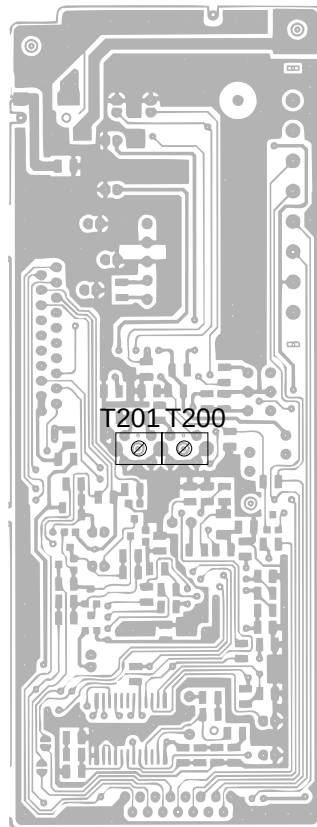
Linear PCB

1) Items to Be Adjusted

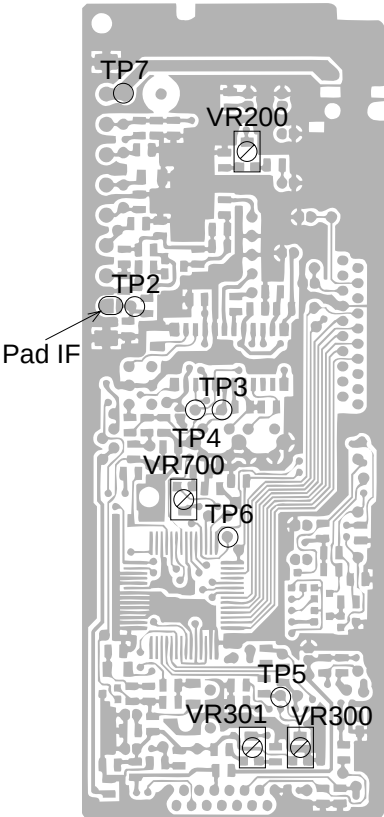
Item	Measuring Instrument
VCC2 voltage setting	Voltmeter
Video detection coil adjustment	TV signal generator, Pattern generator, Oscilloscope, Low-pass filter
AFT coil adjustment	Sweep generator, Oscilloscope, Voltmeter
Contrast adjustment	TV signal generator, Pattern generator, Oscilloscope
AGC adjustment	TV signal generator, Pattern generator, IF levelmeter
Clock adjustment	Voltmeter

2) Adjustment and Test Point Locations

TOP VIEW

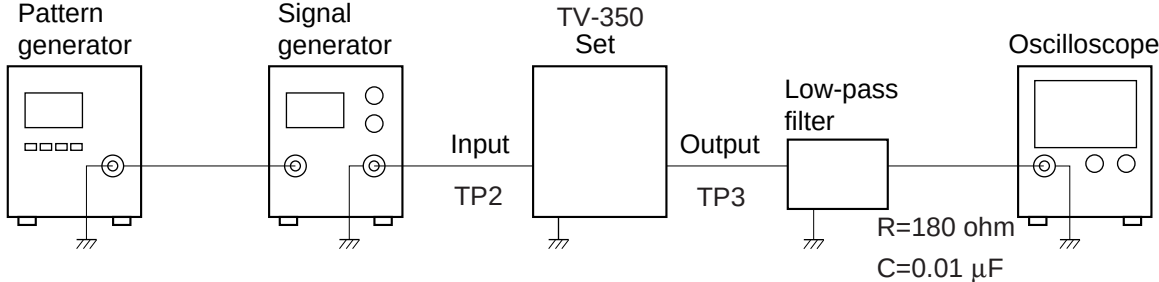
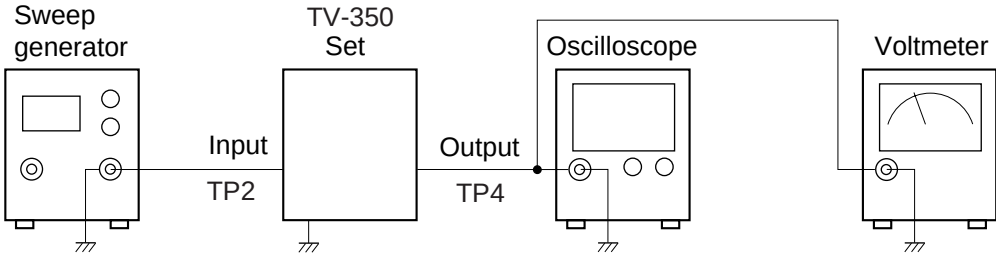
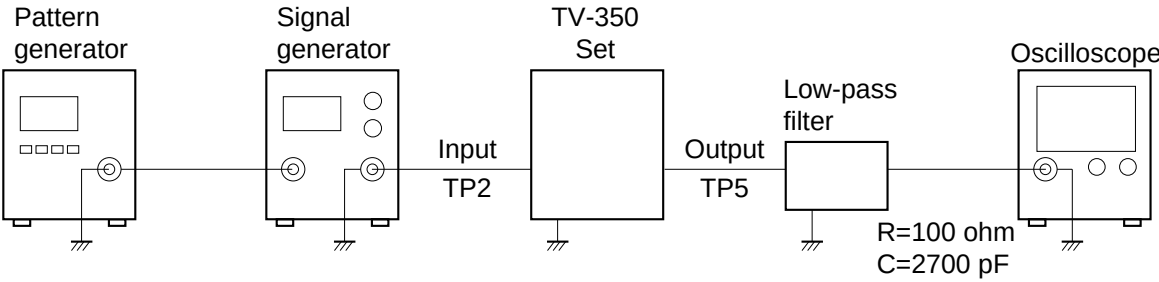


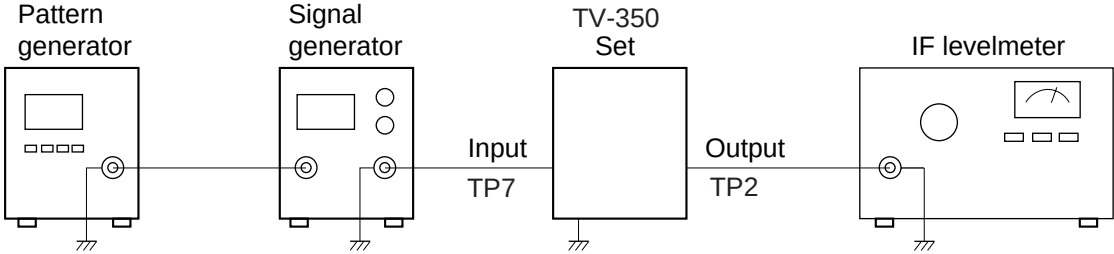
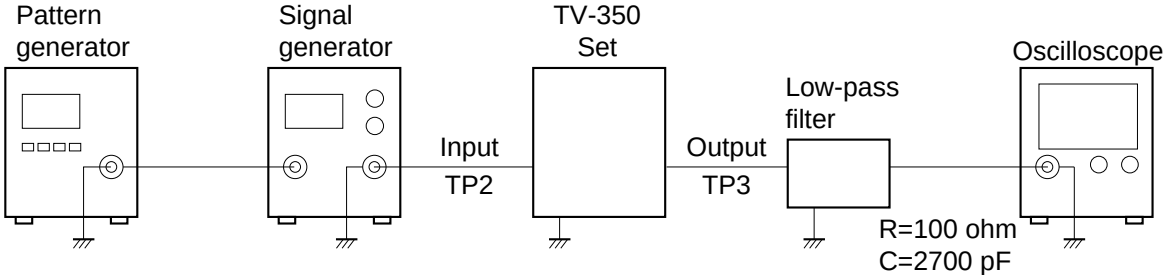
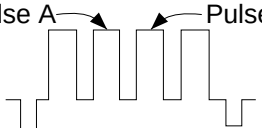
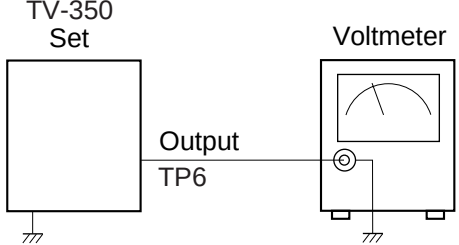
BOTTOM VIEW



3) Equipment Connection / Procedure

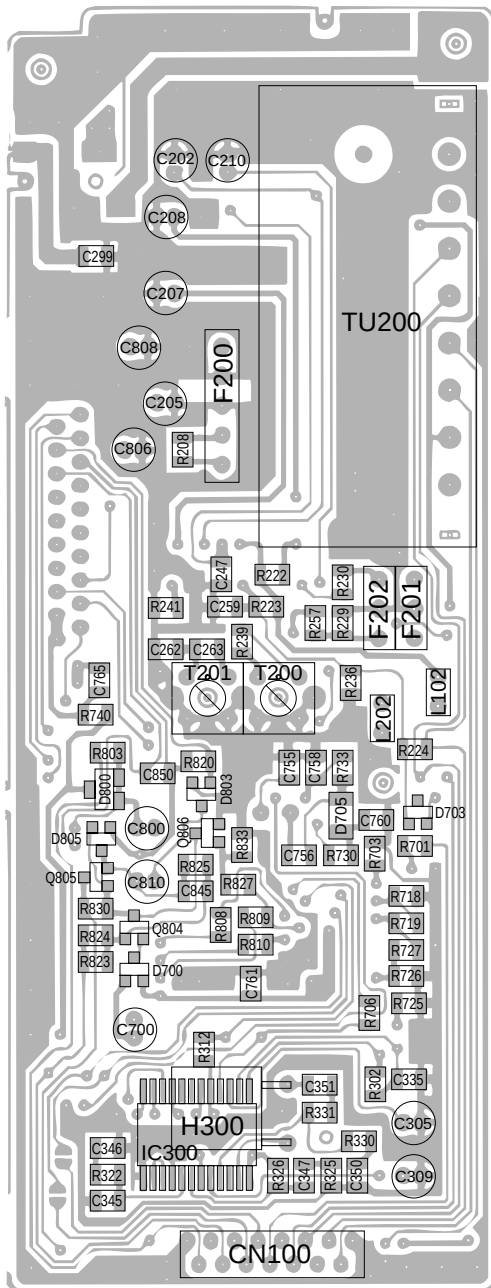
VCC2 Voltage Setting						
TV-350 Set Output TP1 Voltmeter						
Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Result
_____	_____	_____	VR100	Voltmeter	TP1	Adjust for 3.95 ± 0.02V reading on voltmeter.

Video Detection Coil Adjustment						
* Open soldering pad IF. 						
Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Result
Pattern generator Signal generator	TP2	Color bar 38.9MHz $41 \pm 3\text{dB}\mu$	T200	Low-pass filter Oscilloscope	TP3	Adjust for DC level at mini-
AFT Coil Adjustment						
* Open soldering pad IF. 						
Sweep generator	TP2	$38.9 \pm 5\text{MHz}$ (Sweep) Marker: 38.9MHz $70\text{dB}\mu$	T201	Voltmeter Oscilloscope	TP4	Adjust for $1.8 \pm 0.2\text{V}$ reading on voltmeter. Confirm that the marker is at the middle of S-curve on oscilloscope.
Contrast Adjustment						
* Open soldering pad IF. 						
Pattern generator Signal generator	TP2	Color bar 38.9MHz $70\text{dB}\mu$	VR300	Oscilloscope	TP5	Adjust step form wave to read $0.75 \pm 0.05\text{ Vp-p}$.

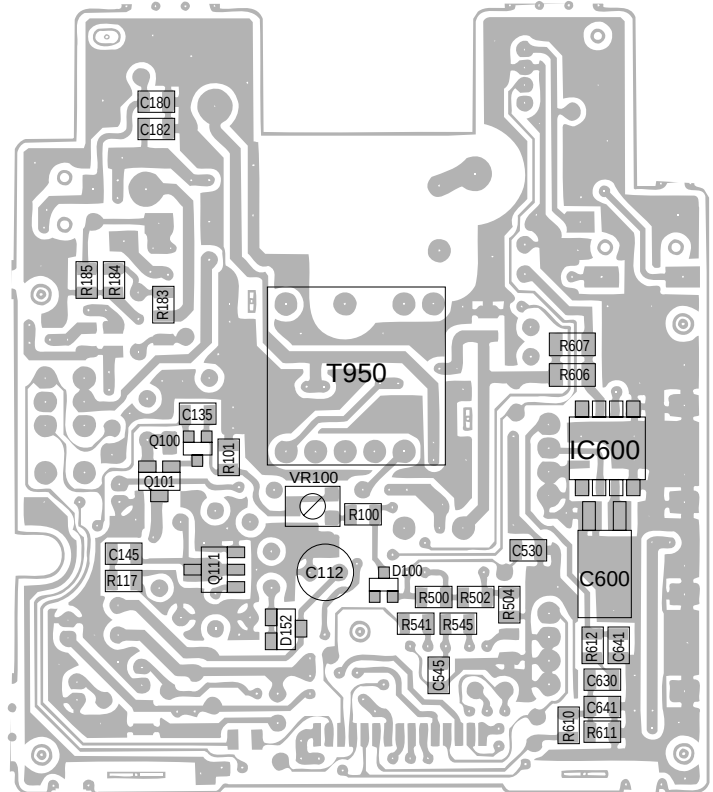
AGC Adjustment						
						
Input Connection	Input Point	Input Signal	Adjust	Output Connection	Output Point	Result
Pattern generator TV Signal generator	TP7	Color bar $65 \pm 5 \text{ dB}\mu$	VR200	IF levelmeter	TP2	Adjust for $81 \pm 1 \text{ dB}\mu$ reading on the IF levelmeter
Tint Adjustment						
* Open soldering pad IF. 						
Pattern generator Signal generator	TP2	Color bar 38.9MHz 70 dB μ	VR301	Low-pass filter Oscilloscope	TP3	Adjust VR301 so that the difference between pulse A and B is less than 0.1V. 
Clock Adjustment						
						
—	—	—	VR700	Voltmeter	TP6	Adjust for $1.00 \pm 0.05\text{V}$ reading on voltmeter.

PRINTED CIRCUIT BOARDS

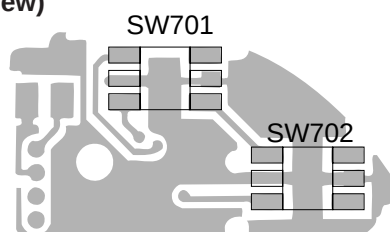
Linear PCB (Top View)



PW PCB
(Top View)



KY PCB
(Top View)



PW PCB



Linear PCB

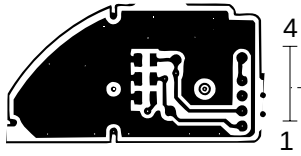


KY PCB

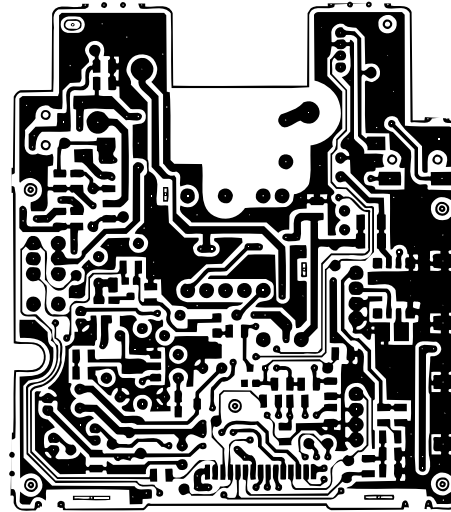


WIRING DIAGRAM

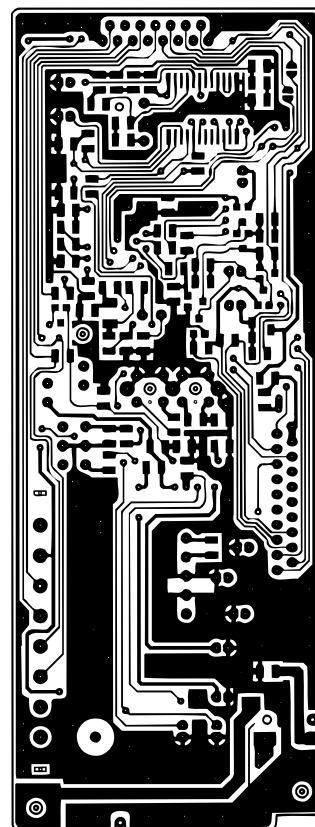
KY PCB



PW PCB



Linear PCB



ELECTRICAL PARTS LIST

Linear PCB Assembly NO. 1

N	Item	Code No.	Parts Name	Specification	M	FOB Japan N.R.Yen Unit Price	R
Capacitors							
	C202	2800 9182	Electrolytic	6.3RC2-47MS	20	15	C
	C205	2804 9765	Electrolytic	50RC2-2R2	10	18	C
	C207	2800 9182	Electrolytic	6.3RC2-47MS	20	15	C
	C208	2800 9182	Electrolytic	6.3RC2-47MS	20	15	C
	C210	2804 9064	Electrolytic	16RC2-10	10	9	C
	C230	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
N	C232	2897 2114	Chip	EMK212F105Z-T	20	10	C
	C233	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
N	C234	2897 2114	Chip	EMK212F105Z-T	20	10	C
	C235	2897 0994	Chip	GR42-6Y5V334Z50PT	20	19	C
	C236	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C237	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C239	2892 0113	Chip	GR40CH150J50PT	10	10	C
	C240	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C243	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C245	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C246	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C249	2892 0844	Chip	GR42-6Y5V474Z16PT	20	27	C
	C257	2892 0407	Chip	GR40CH270J50PT	10	10	C
	C259	2892 0091	Chip	GR40W5R223K25PT	10	15	C
	C261	2892 0890	Chip	GR40PH560J50PT	20	13	C
	C262	2897 0378	Chip	GR40PH270J50PT	10	5	C
	C263	2892 0890	Chip	GR40PH560J50PT	20	13	C
	C264	2892 0491	Chip	GR40CH020C50PT	20	3	C
N	C268	2897 2100	Chip	GR40CH111J50PT	20	4	C
	C269	2892 0300	Chip	GR40CH470J50PT	10	10	C
	C299	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C303	2897 1827	Chip tantalum	EMK316B474K-T	10	22	C
	C305	2804 9064	Electrolytic	16RC2-10	10	9	C
	C309	2800 9182	Electrolytic	6.3RC2-47MS	20	15	C
	C331		Not Used				
	C332	2897 0084	Chip	GR42-6Y5V105Z16PT	20	3	C
	C335	2892 0865	Chip	GR40CH471J50PT	20	15	C
	C338	2892 0016	Chip	GR40W5R102K50PT	10	11	C
	C340	2892 0083	Chip	GR40W5R103K50PT	10	14	C
	C345	2897 0112	Chip	GR40W5R562K50PT	20	12	C
	C346	2897 0973	Chip	GR40W5R683K25PT	10	16	C
	C347	2897 0973	Chip	GR40W5R683K25PT	10	16	C
	C350	2892 0326	Chip	GR40CH101J50PT	10	11	C
	C351	2897 0245	Chip	GR40CH180J50PT	20	6	C
	C700	2800 9182	Electrolytic	6.3RC2-47MS	20	15	C
	C740	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
	C741	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
	C742	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
	C750	2892 0458	Chip	GR40CH220J50PT	20	6	C
	C751	2892 0458	Chip	GR40CH220J50PT	20	6	C
	C755	2892 0903	Chip	GR40UJ270J50PT	20	10	C
	C756	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C758	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C760	2892 0237	Chip	GR40W5R222K50PT	20	9	C
	C761	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C

Notes: N – New parts

M – Minimum order/supply quantity

R – Rank

Linear PCB Assembly NO. 2

N	Item	Code No.	Parts Name	Specification	M	FOB Japan N.R.Yen Unit Price	R
	C765	2897 0553	Chip	GR40Y5V224Z16PT	10	24	C
	C800	2800 9182	Electrolytic	6.3RC2-47MS	20	15	C
	C806	2800 9945	Electrolytic	50RC2-4R7MS	20	14	C
	C808	2804 9765	Electrolytic	50RC2-2R2	10	18	C
	C810	2804 9212	Electrolytic	50RC2-1	10	9	C
	C840	2897 0126	Chip	GR40CH221J50PT	20	9	C
	C845	2892 0288	Chip	GR40CH100D50PT	10	10	C
	C850	2897 0728	Chip	GR40Y5V104Z50PT	20	9	C
Connectors							
N	CN100	3501 8239	Connector	52233-1510	5	67	C
	CN700	3501 3234	Connector	52030-2020	5	85	C
Diodes							
	D700	2390 1470	Chip	MA143A-(TX)	20	16	C
	D703	2390 1470	Chip	MA143A-(TX)	20	16	C
	D705	2390 1358	Vari-cap	MA329-(TX)	10	30	C
	D707	2360 0854	Chip, Zener	MA3100-M(TX)	10	17	C
	D800	2360 1652	Chip, Zener	MA3075-H(TX)	10	14	C
	D803	2390 1470	Chip	MA143A-(TX)	20	16	C
	D805	2390 1477	Chip	MA142WA-(TX)	20	10	C
Filters and Traps							
	F200	3025 0189	SAW filter	SAF38.9MZ60Z	1	150	C
	F201	3025 0728	SIF filter	SFSL5.5MDB12	10	33	C
	F202	3851 1148	Ceramic discriminator	CDSL5.5MC30B12	5	45	C
Oscillator							
	H300	2590 0651	Crystal oscillator	HC-49U-C	1	110	C
ICs							
	IC200	2114 1827	Linear	M51348FP-T1	1	190	B
	IC300	2114 3311	Linear	M52045FP-T1	1	300	B
	IC700	2011 3514	Linear	MSM6625-02GSK-640F	1	280	B
Jack							
	JK200	3501 5439	Jack	HSJ1456-01-210	1	27	C
Inductors							
N	L102	3841 1162	Inductor	LAL02VE220J	20	17	C
	L200	3013 0686	Chip	MLF2012DR82K-TP	10	30	C
N	L202	3841 1155	Chip	LAL02VE8R2J	20	17	C
N	L705	3841 1148	Chip	LAL02VE270J	20	17	C
Transistors							
	Q200	2252 0707	Chip	2SC4238-(TX)	10	17	C
	Q300	2251 0189	Chip	2SB1218A-R(TX)	10	10	C
	Q800	2253 0133	Chip	2SD1819A-R(TX)	10	12	C
	Q801	2251 0189	Chip	2SB1218A-R(TX)	10	10	C
	Q802	2253 0133	Chip	2SD1819A-R(TX)	10	12	C
	Q803	2253 0133	Chip	2SD1819A-R(TX)	10	12	C
	Q804	2253 0133	Chip	2SD1819A-R(TX)	10	12	C
	Q805	2253 0532	Chip	2SD1824-R,S(TX)	20	30	C
	Q806	2253 0133	Chip	2SD1819A-R(TX)	10	12	C
Resistors							
	R133	2791 1617	Chip	ERJ-6GEYJ100V	20	3	C
	R201	2791 2117	Chip	ERJ-6GEYJ820V	20	4	C
	R202	2791 0580	Chip	ERJ-6GEYJ392V	10	4	C
	R203	2791 0712	Chip	ERJ-6GEYJ152V	20	4	C
	R204	2791 0831	Chip	ERJ-6GEYJ681V	20	4	C
	R205	2797 2079	Chip	ERJ-6GEYJ120V	20	3	C
	R207	2791 2117	Chip	ERJ-6GEYJ820V	20	4	C

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

Linear PCB Assembly NO. 3

N	Item	Code No.	Parts Name	Specification	M	FOB Japan N.R.Yen Unit Price	R
	R208		Not Used				
	R209	2791 0313	Chip	ERJ-6GEYJ103V	10	5	C
	R210	2791 0305	Chip	ERJ-6GEYJ472V	20	3	C
	R212	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
	R214	2791 0769	Chip	ERJ-6GEYJ563V	20	3	C
	R220	2792 0110	Chip jumper	ERJ-6GEYOR00V	20	3	C
	R222	2791 0696	Chip	ERJ-6GEYJ470V	20	4	C
	R223	2791 0615	Chip	ERJ-6GEYJ154V	10	5	C
	R224	2797 1127	Chip	ERJ-6GEYK475V	20	3	C
	R225	2797 1624	Chip	ERJ-6GEYJ102V	20	3	C
	R229	2791 2176	Chip	ERJ-6GEYJ471V	20	3	C
	R230	2791 1131	Chip	ERJ-6GEYJ271V	20	3	C
	R236	2791 2044	Chip	ERJ-6GEYJ124V	20	3	C
	R239	2791 0734	Chip	ERJ-6GEYJ272V	20	3	C
	R241	2791 0607	Chip	ERJ-6GEYJ333V	20	4	C
	R246	2797 0245	Chip	ERJ-6GEYJ181V	20	2	C
	R247	2797 0014	Chip	ERJ-6GEYJ821V	20	3	C
	R301	2791 1625	Chip	ERJ-6GEYJ391V	20	4	C
	R302	2791 1579	Chip	ERJ-6GEYJ474V	10	4	C
	R303	2791 0720	Chip	ERJ-6GEYJ222V	20	3	C
	R305	2791 0831	Chip	ERJ-6GEYJ681V	20	4	C
	R306	2797 0028	Chip	ERJ-6GEYJ683V	20	3	C
	R307	2791 0831	Chip	ERJ-6GEYJ681V	20	4	C
	R310	2791 1579	Chip	ERJ-6GEYJ474V	20	4	C
	R312	2791 0815	Chip	ERJ-6GEYJ102V	20	5	C
	R322	2791 0607	Chip	ERJ-6GEYJ333V	20	4	C
	R325	2791 1684	Chip	ERJ-6GEYJ183V	20	3	C
	R326	2797 1015	Chip	ERJ-6GEYK225V	20	3	C
	R330	2797 0014	Chip	ERJ-6GEYJ821V	20	3	C
	R331	2791 2176	Chip	ERJ-6GEYJ471V	20	3	C
	R335	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
	R336	2797 0028	Chip	ERJ-6GEYJ683V	20	3	C
	R342	2792 0110	Chip jumper	ERJ-6GEYOR00V	20	3	C
	R343	2792 0110	Chip jumper	ERJ-6GEYOR00V	20	3	C
	R701	2791 2095	Chip	ERJ-6GEYJ682V	20	3	C
	R703	2797 0035	Chip	ERJ-6GEYJ105V	20	4	C
	R704	2791 2141	Chip	ERJ-6GEYJ273V	20	4	C
	R705	2791 0769	Chip	ERJ-6GEYJ563V	20	3	C
	R706	2791 1650	Chip	ERJ-6GEYJ122V	20	3	C
	R708	2791 1650	Chip	ERJ-6GEYJ122V	20	3	C
	R709	2791 1650	Chip	ERJ-6GEYJ122V	20	3	C
	R710	2797 2191	Chip	ERJ-6GEYK6R8V	20	3	C
	R718	2792 0110	Chip jumper	ERJ-6GEYOR00V	20	3	C
	R719		Not Used				
	R725	2797 0245	Chip	ERJ-6GEYJ181V	20	3	C
	R726	2797 3304	Chip	ERJ-6GEYG511V	20	3	C
	R727	2797 1624	Chip	ERJ-6GEYG102V	20	3	C
	R730	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
	R733	2791 0777	Chip	ERJ-6GEYJ104V	10	5	C
	R734	2791 0866	Chip	ERJ-6GEYJ334V	10	4	C
	R738	2791 2044	Chip	ERJ-6GEYJ124V	20	3	C
	R740	2791 1617	Chip	ERJ-6GEYJ100V	20	3	C
	R800	2791 1390	Chip	ERJ-6GEYJ473V	10	5	C
	R803	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C

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

Linear PCB Assembly NO. 4

N	Item	Code No.	Parts Name	Specification	M	FOB Japan N.R.Yen Unit Price	R
	R808	2791 1595	Chip	ERJ-6GEYJ153V	20	4	C
	R809	2791 1595	Chip	ERJ-6GEYJ153V	20	4	C
	R810	2791 1595	Chip	ERJ-6GEYJ153V	20	4	C
	R815	2791 2079	Chip	ERJ-6GEYJ562V	20	3	C
	R816	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
	R817	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
	R818	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
	R820	2797 1127	Chip	ERJ-6GEYK475V	20	3	C
	R823	2797 0672	Chip	ERJ-6GEYJ684V	20	3	C
	R824	2797 1953	Chip	RR1220P-303-D	10	5	C
	R825	2797 1960	Chip	RR1220R-274-D	10	5	C
	R827	2791 0607	Chip	ERJ-6GEYJ333V	20	4	C
	R830	2791 2052	Chip	ERJ-6GEYJ224V	20	3	C
	R833	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
Coils							
	T200	3841 0700	Coil	5KAC-03A	1	60	C
	T201	3841 0700	Coil	5KAC-03A	1	60	C
Tuner							
	TU200	1013 5315	Tuner	TEPE5-01	1	820	C
Variable Resistors							
N	VR200	2775 1211	Chip semi-fixed resistor	EVM-1SSW50B54	1	27	C
	VR300	2775 1260	Chip semi-fixed resistor	EVM-1SSW50B14	1	26	C
	VR301	2775 1260	Chip semi-fixed resistor	EVM-1SSW50B14	1	26	C
	VR700	2775 1568	Chip semi-fixed resistor	EVM-1SSW50B55	20	20	C

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

PW PCB Assembly NO. 1

N	Item	Code No.	Parts Name	Specification	M	FOB Japan N.R.Yen Unit Price	R
Capacitors							
N	C100	2801 8953	Electrolytic	10RC2-220	20	19	C
	C103	2800 9182	Electrolytic	6.3RC2-47MS	20	15	C
	C110	2804 9064	Electrolytic	16RC2-10	10	9	C
	C112	2805 8777	Electrolytic	6.3RC2S-100-T36	10	16	C
	C113	2805 8777	Electrolytic	6.3RC2S-100-T36	10	16	C
	C114	2800 9945	Electrolytic	50RC2-4R7MS	20	14	C
	C118	2805 9414	Electrolytic	100RC2-1-T36	10	15	C
	C135	2897 0112	Chip	GR40W5R562K50PT	20	12	C
	C140	2897 0259	Chip	GR40W5R332K50PT	20	7	C
	C145	2892 0016	Chip	GR40W5R102K50PT	10	11	C
	C146	2897 1505	Chip	GR40CH101J200PT	20	13	C
	C154	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C180		Not Used				
	C182	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
	C545	2897 0693	Chip	GR40W5R333K25PT	10	12	C
	C550	2897 0021	Chip	GR40Y5V683Z50PT	20	27	C
N	C600	2807 7022	Electrolytic	16RC310-G12	20	13	C
	C603	2804 9277	Electrolytic	6.3RC3100	10	26	C
	C606	2804 9277	Electrolytic	6.3RC3100	10	26	C
	C630	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
	C641	2892 0083	Chip	GR40W5R103K50PT	10	14	C
	C642	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
	C645	2892 0016	Chip	GR40W5R102K50PT	10	11	C
	C925	2825 0301	TF	ECQ-V1H184JZ	20	26	C
N	C927	2813 3402	Ceramic	DE1005SL221J2K	20	16	C
Connector							
N	CN600	3501 8204	Connector	CGP1604-0101	20	15	C
Diodes							
	D100	2390 1183	Chip	MA142WK-(TX)	20	9	C
	D150	2390 1176	Chip	MA152WK-(TX)	20	8	C
	D152	2390 1176	Chip	MA152WK-(TX)	20	8	C
	D154	2390 1183	Chip	MA142WK-(TX)	20	9	C
	D155	2390 1470	Chip	MA143A-(TX)	10	16	C
	D185	2390 1190	Chip	ERA15-01Y	20	9	C
Fuses							
N	FU100	3632 0469	Fuse	PI-251001(F10)	5	52	B
	FU900	3632 0308	Temperature	EYP-1BF102L	1	27	C
	FU901	3632 0308	Temperature	EYP-1BF102L	1	27	C
ICs							
	IC500	2114 0182	Linear	MSC1169MS-K	1	140	B
	IC600	2114 2464	Linear	NJM2070M-T1	1	65	B
Jacks							
	JK101	3501 6846	Jack	HEC2500-010110	1	35	C
	JK600	3501 5439	Jack	HSJ1456-01-210	1	27	C
Coil and Inductor							
	L101	3840 2374	Inductor	EL0405SKI-101K-2	10	48	C
	L950	3013 0756	Choke	RCH-875-101K	5	55	C
Transistors							
	Q100	2251 0189	Chip	2SB1218A-R(TX)	10	10	C
	Q101	2230 7011	Chip	2SD601A-R(TX)	10	22	C
	Q111	2253 0308	Chip	2SD1119-R(TX)	10	37	C
	Q950	2253 0308	Chip	2SD1119-R(TX)	10	37	C
	Q951	2253 0308	Chip	2SD1119-R(TX)	10	37	C

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

PW PCB Assembly NO. 2

N	Item	Code No.	Parts Name	Specification	M	FOB Japan N.R.Yen Unit Price	R
Resistors							
	R100	2797 0014	Chip	ERJ-6GEYJ821V	20	3	C
	R101	2791 1633	Chip	ERJ-6GEYJ123V	20	3	C
	R111	2791 0815	Chip	ERJ-6GEYJ102V	10	5	C
	R115	2791 2117	Chip	ERJ-6GEYJ820V	20	4	C
	R117	2791 0696	Chip	ERJ-6GEYJ470V	20	3	C
	R183	2792 0110	Chip jumper	ERJ-6GEYOR00V	20	3	C
	R184	2792 0110	Chip jumper	ERJ-6GEYOR00V	20	3	C
	R185	2792 0110	Chip jumper	ERJ-6GEYOR00V	20	3	C
	R500	2797 0252	Chip	ERJ-6GEYJ823V	20	3	C
	R502	2797 0252	Chip	ERJ-6GEYJ823V	20	3	C
N	R504	2797 3619	Chip	ERJ-6GEYJ304V	20	3	C
N	R530	2791 1617	Chip	ERJ-6GEYJ100V	20	3	C
N	R531	2791 1617	Chip	ERJ-6GEYJ100V	20	3	C
	R541	2791 0750	Chip	ERJ-6GEYJ223V	20	6	C
	R545	2791 1579	Chip	ERJ-6GEYJ474V	10	4	C
	R550	2791 0815	Chip	ERJ-6GEYJ102V	20	5	C
	R606	2797 2345	Chip	ERJ-8GEYK4R7V	20	2	C
	R607	2797 2345	Chip	ERJ-8GEYK4R7V	20	2	C
	R610	2791 0734	Chip	ERJ-6GEYJ272V	20	3	C
	R611	2797 3297	Chip	ERJ-6GEYJ911V	20	3	C
	R612	2791 0305	Chip	ERJ-6GEYJ472V	20	3	C
	R645	2791 0696	Chip	ERJ-6GEYJ470V	20	4	C
	R950	2791 0840	Chip	ERJ-8GEYJ821V	20	4	C
Switch							
N	SW100	3412 0798	Slide switch	ESD-11H231	1	47	C
Converter and Transformer							
	T100	3065 0441	DC-DC converter	LC12U-29	1	73	C
	T950	3012 1071	Inverter	NT-03	1	190	C
Variable Resistors							
	VR100	2775 1316	Chip semi-fixed resistor	EVM-1SSW50B53	10	27	C
	VR600	2765 0462	Volume	RK09H11T-50KB	5	80	C
	VR800	2765 1127	Volume	RK09H11T-100KC	5	60	C

KEY PCB ASSEMBLY

N	Item	Code No.	Parts Name	Specification	M	FOB Japan N.R.Yen Unit Price	R
Capacitors							
	C701	2892 0040	Chip	GR40Y5V104Z25PT	10	14	C
	C702	2892 0059	Chip	GR40Y5V103Z50PT	10	9	C
Resistor							
	R701	2791 0305	Chip	ERJ-6GEYJ472V	20	3	C
Switches							
N	SW700	3412 0882	Switch	SKHUPD-T	20	30	C
N	SW701	3412 0882	Switch	SKHUPD-T	20	30	C

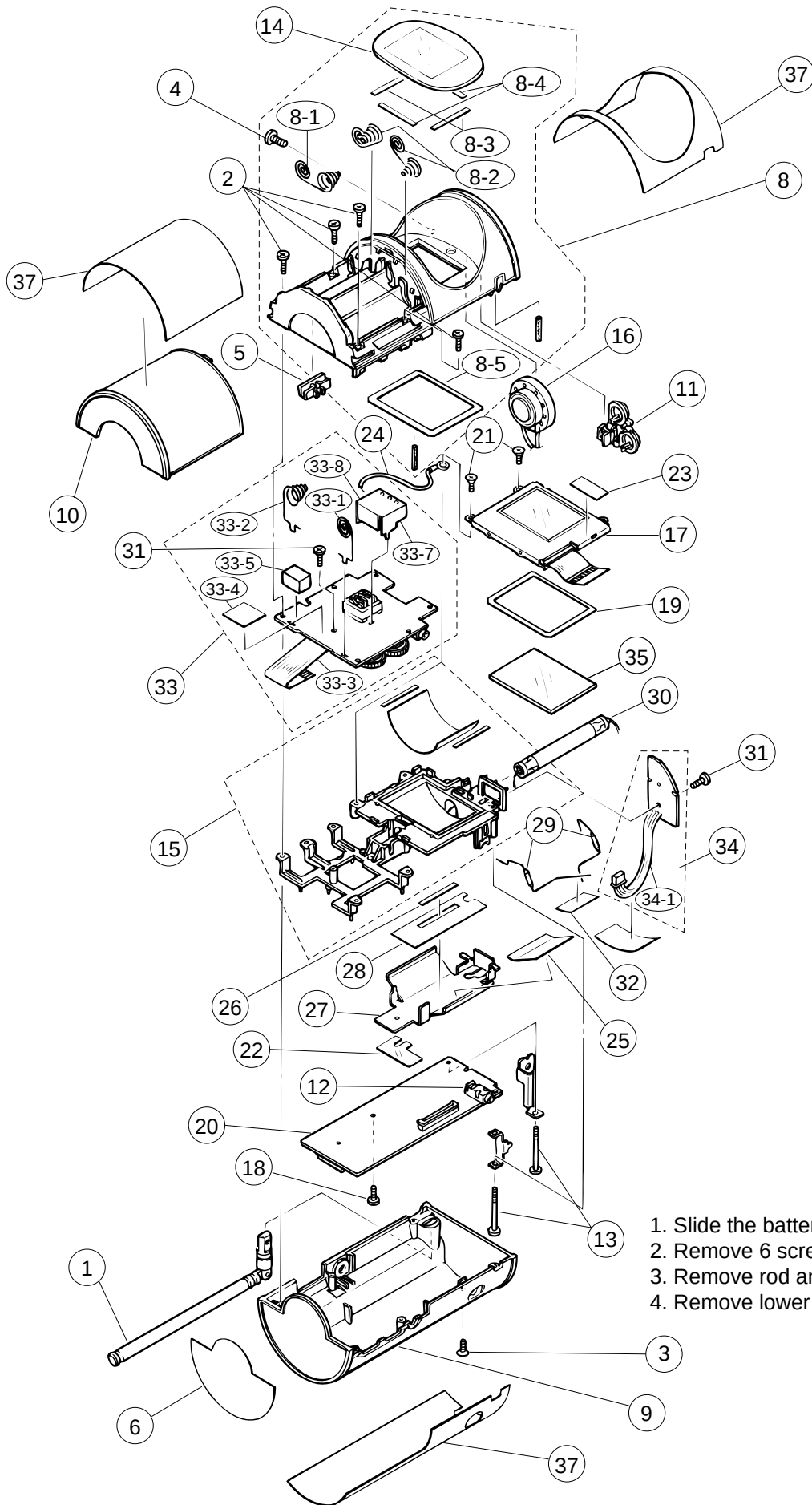
Notes: N – New parts
M – Minimum order/supply quantity
R – Rank

MECHANICAL PARTS LIST

N	Item	Code No.	Parts Name	Specification	Q	FOB Japan N.R.Yen Unit Price	R
	1	3851 1267	Rod antenna	YH810721	1	180	C
	2	5860 4634	Precision (+) tap tight	BT3,1.7x6.5 NI	4	3	X
N	3	5860 8036	Precision (+) tap tight	BT3,1.7x3.5 Bk	1	3	X
	4	6605 0011	Flat screw A-K333	K410096A-1	1	3	X
N	5	6608 7990	Switch knob A-K546	K311397-1	1	28	C
N	6	6609 3591	Rating plate CIM K546	K411875A-8	1	32	X
N	7	6608 8010	Caution label	K411948-1	1	8	X
N	8	6609 1944	Upper case ass'y	K211189*4	1	600	C
	8-1	6020 7658	Battery spring B1 G513	P408A-1	1	23	C
	8-2	6020 7666	Battery spring B1 G513	P409A-1	2	23	C
N	8-3	6608 8190	Adhesive tape A-K546	K410725-7	2	3	C
	8-4	6608 7271	Adhesive tape B-K502	K410903A-2	2	3	X
N	8-5	6608 9340	Adhesive tape B-K546	K412034-1	1	18	C
N	9	6609 1730	Lower case ass'y	K311538*3	1	1,030	C
N	10	6609 1760	Battery cover ass'y	K311537*3	1	980	C
N	11	6608 8200	T button A-K546	K311398-1	1	31	C
N	12	6608 8210	Antenna terminal A-K546	K411870-1	1	30	C
N	13	6608 8220	Screw A-K546	K410188-5	2	5	X
N	14	6609 1831	Display plate C-K546	K311401A-3	1	130	C
N	15	6609 1640	Reflection case ass'y	K311536*1	1	580	C
	16	3831 0567	Speaker	2803BFB	1	150	B
N	17	2725 0952	HQM-LCD unit	COD17H1021B	1	2,290	A
	18	5860 0301	Precision (+) tap tight	BT3,1.7x3.5 NI	1	3	X
	19	6608 0191	Adhesive tape A-K541	K411557A-1	1	15	X
N	20	6609 1946	PCB-K546C-L ass'y 4	K311619*1	1	6,960	A
N	21	5860 8274	Precision (+) tap tight	BT3,1.7x4.5Ni	2	3	X
N	22	6608 8160	Earth terminal A-K546	K411871-1	1	19	C
N	23	6609 0250	Felt B-K546	K410292-6	1	6	X
N	24	6608 9360	DP lug terminal A-K546	K412033-1	1	19	C
	25	6604 8000	Insulation seal G-K52	K452-11	1	4	C
	26	6607 3901	Adhesive tape C-K510	K411277A-2	1	2	X
N	27	6608 8140	S case C-K546	K311399-1	1	50	C
N	28	6608 8150	Insulation seal A-K546	K411921-1	1	9	X
	29	3632 0308	Temperature fuse	EYP-1BF102L	2	27	A
	30	3851 1337	Fluorescent lamp	8.61AD1P2-CA4	1	340	A
	31	5860 0301	Precision (+) tap tight	BT3,1.7x3.5 NI	2	3	X
	32	6604 1410	Felt	K4117-7	1	5	X
N	33	6609 1951	PCB-K546-PW ass'y	K311620*1	1	3,530	A
N	33-1	6608 8020	Battery spring A-K546	K411872-1	1	12	C
N	33-2	6608 8030	Battery spring B-K546	K411873-1	1	13	C
N	33-3	6608 8040	Flat cable A-K546	K411243-2	1	54	C
N	33-4	6608 8050	Felt A-K546	K410292-5	1	6	C
N	33-5	6608 9350	Felt A-K546	K410316-8	1	9	C
N	33-6	3501 8232	Test terminal	WT-2-1	2	26	C
	33-7	6605 0521	S case C-K338	K410184A-1	1	20	C
	33-8	6605 1470	Label K-338	K410217-1	1	2	X
N	34	6609 1680	PCB-K546-K ass'y	K412027*2	1	760	A
N	34-1	6608 8130	K Harness A-K546	K411922-1	1	51	C
N	35	6608 8240	Diffusion sheet A-K546	K411874-1	1	54	C
N	36	6608 9690	Insulation seal B-K546	K412037-1	1	8	C
	37	6609 3602	Cover sheet set BIM-K546	K211224B-5	1	510	C

Notes: N – New parts
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R – Rank

EXPLODED VIEWS / DISASSEMBLY

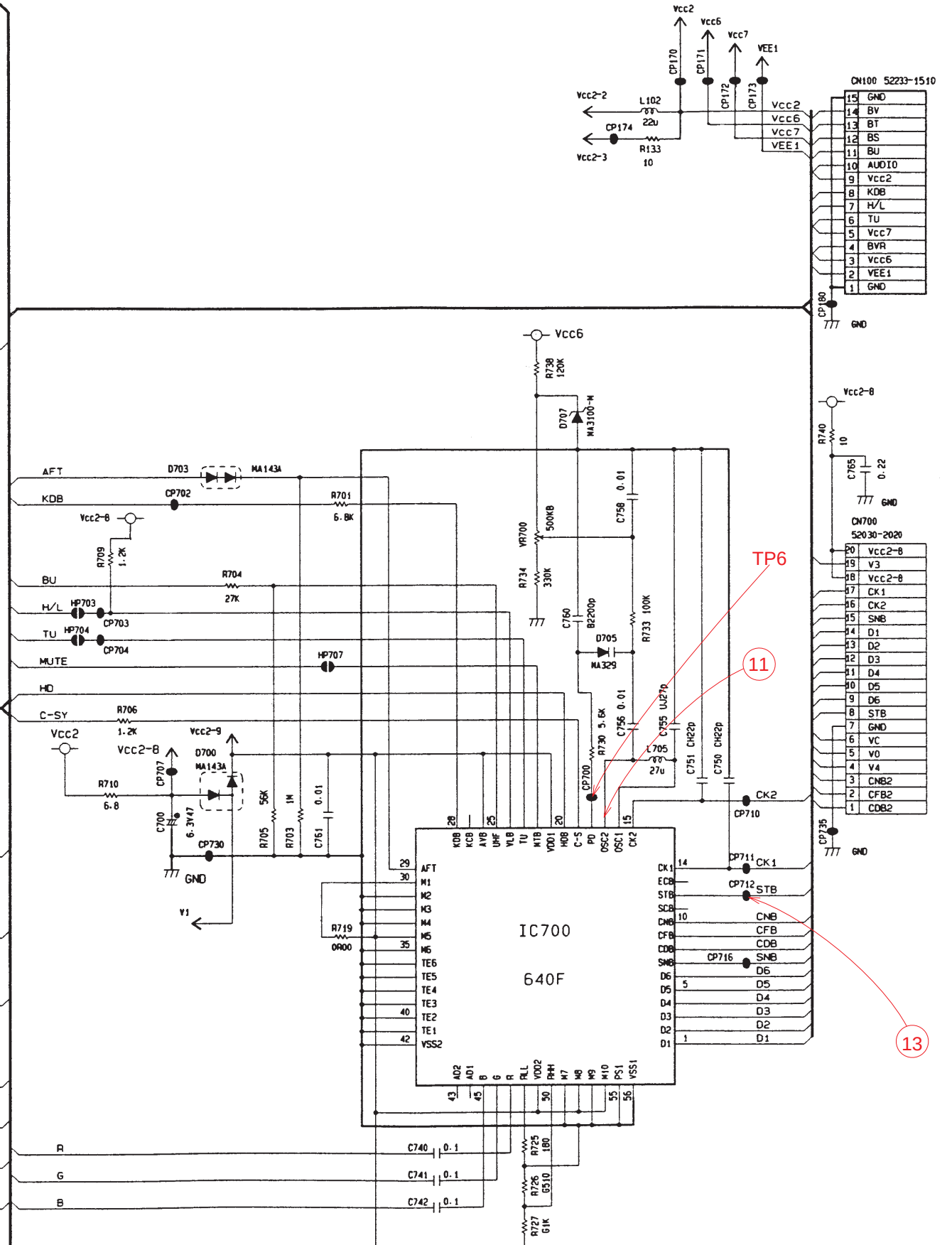
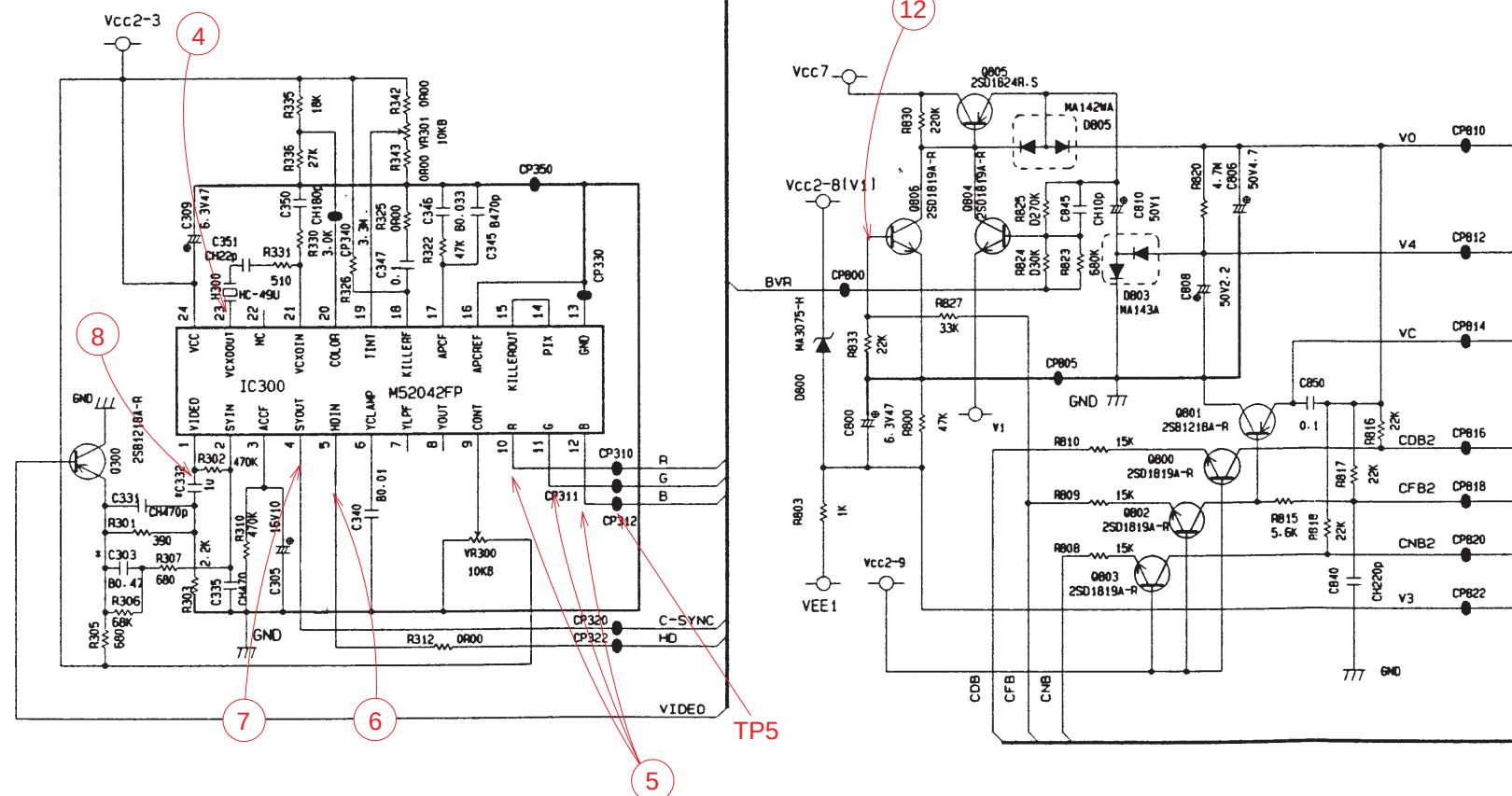
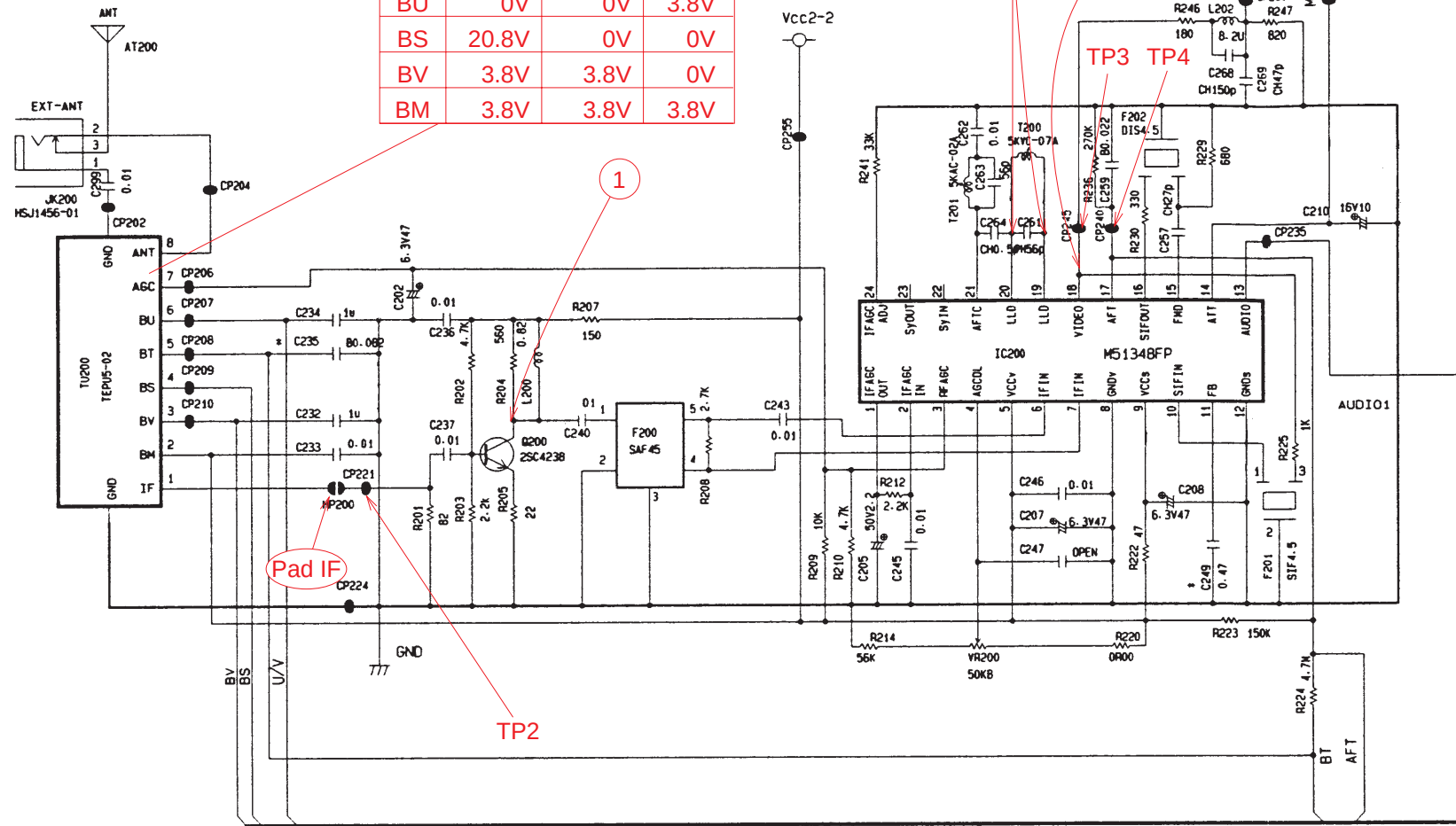


1. Slide the battery cover 0.
2. Remove 6 screws 2, 4 and 3.
3. Remove rod antenna 1.
4. Remove lower case 9.

SCHEMATIC DIAGRAMS AND WAVEFORMS

Linear PCB

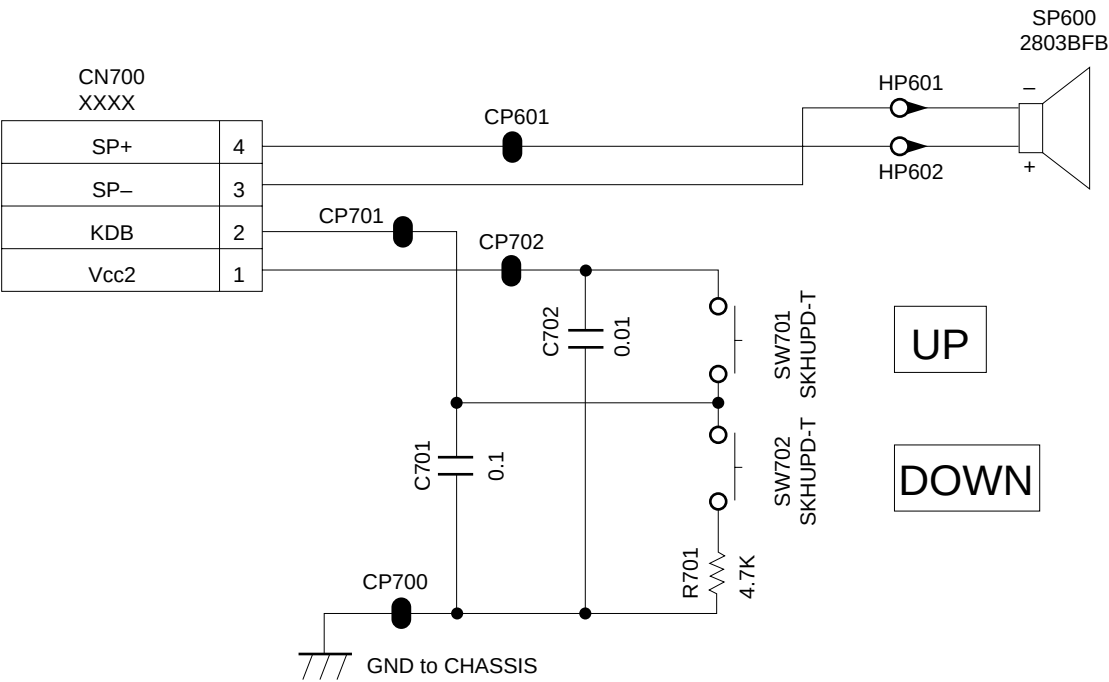
	VHF(L)	VHF(H)	UHF
BU	0V	0V	3.8V
BS	20.8V	0V	0V
BV	3.8V	3.8V	0V
BM	3.8V	3.8V	3.8V



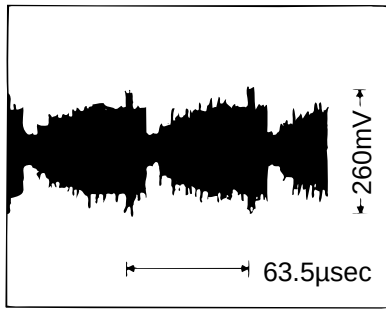
PW PCB



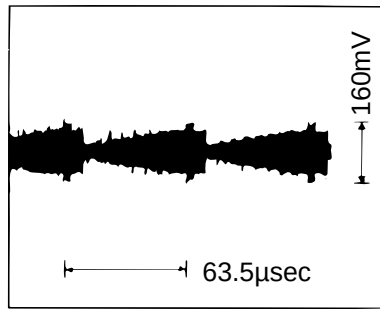
KY PCB



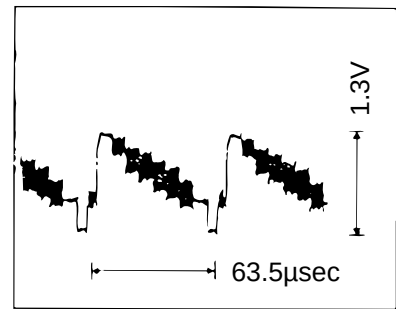
WAVEFORMS



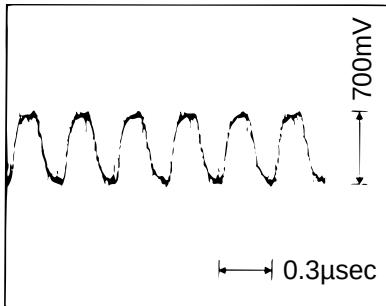
① Q200 Collector



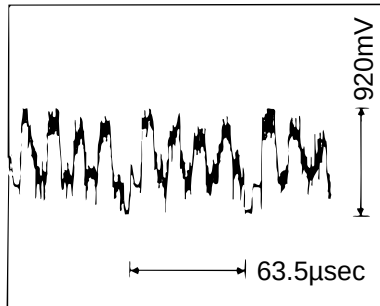
② IC200 Pin 19



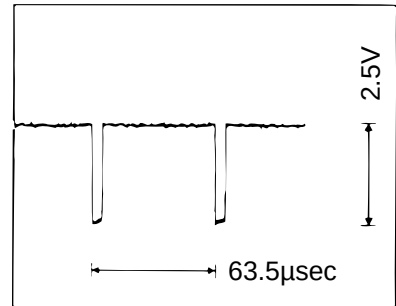
③ IC200 Pin 18



④ IC300 Pin 23



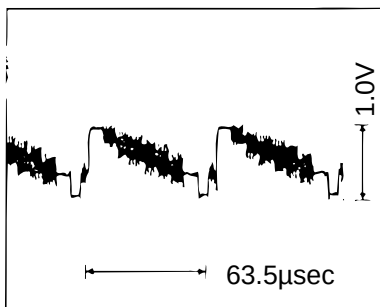
⑤ IC300 Pins 10,11,12



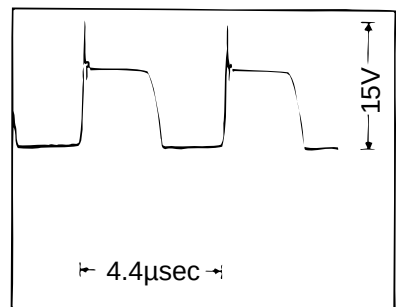
⑥ IC300 Pin 5



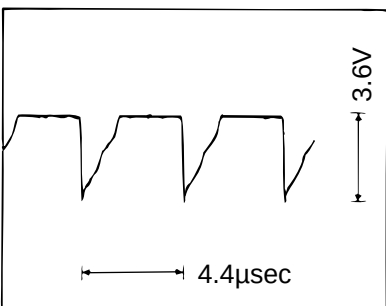
⑦ IC300 Pin 4



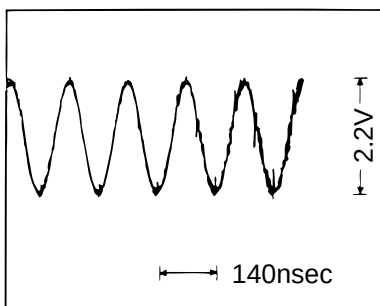
⑧ IC300 Pin 1



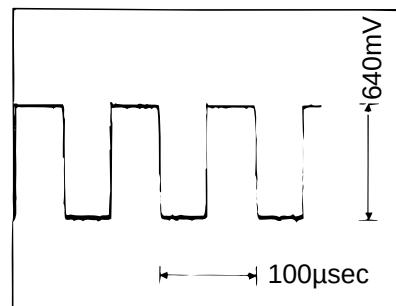
⑨ Q111 Collector



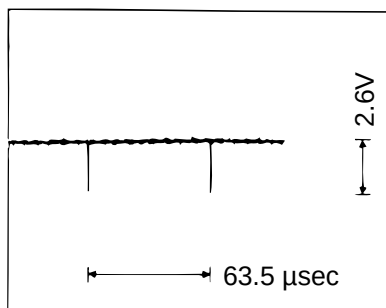
⑩ Q111 Base



⑪ IC700 Pin 17



⑫ Q806 Base



⑬ IC700 Pin 12

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