



TRANSISTOR CAR RADIO MODEL CR-555, CR-555S



★ Difference between CR-555 and CR-555S

The CR-555S does not include speaker, and consists of only an amplifier and accessories. It is so designed as to be used combined with a mounting kit (panel) and speaker. Most of the accessories for both are the same.

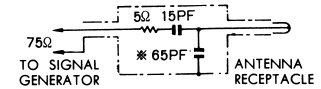
SPECIFICATIONS

Circuit System :	1 RF & 2 IF amplification stages, Pushpull system, 8 transistors	Output Impedance :	8 ohms
Tuning System :	μ -tuning-Manual/Pushbuttons (5 buttons) System	Maximum Output :	3.0 watts or more
Receiving Frequency :	535 KC - 1605 KC	Power Supply Voltage :	DC 11-16 volts (standard voltage 13.2V) Exclusive for negative ground
Intermediate Frequency :	450 KC	Antenna Capacity :	80 pf \pm 10 pf
Sensistivity :	20 μ V (26 dB) or less (at 500 mW rated output)		
Selectivity :	20 dB or more (at \pm 10 KC detuning)		
AGC Characteristics :	40 dB or more		

ALIGNMENT INSTRUCTIONS

(1) Preparations before adjusting

- 1) Power supply voltage DC 13.2 V negative ground
- 2) Volume (R_{17} , R_{18}) Turn the volume control to maximum and set tone control at treble.
- 3) Signal generator output Modulation frequency 400 c/s 30 % modulation
- 4) Output load An 8-ohm ohmic resistor (5 watts or more) or a loudspeaker
- 5) Signal supplying point Antenna receptacle through dummy antenna
- 6) Dummy antenna See Fig. 7.



* includes feeder capacity.

Fig. 7

(2) Adjusting procedure (See Fig. 8)

Adjusting Step	Adjusting Point	Signal Frequency	Radio Dial Position	Remarks	
1	IFT adjustment	T ₄ (black)	450 KC	In the vicinity of 1,500 KC where there is no station	Repeat adjustment 3-4 times for maximum output.
2		T ₃ (white)	"	"	
3		T ₂ (blue)	"	"	
4		T ₁ (pink)	"	"	
5	Matching adjustment	OSC trimmer C ₁₂	1400 KC	*1400 KC (See Fig. 9)	Adjust for maximum output.
6		RF trimmer C ₇	"	"	
7		Ant. trimmer C ₂	"	"	

- * After adjustment set the dial pointer at extreme right and then left, and confirm that signals of 535 KC and 1,605 KC from the signal generator are received, respectively.
- * Tune to a signal in the vicinity of 1400 KC and adjust antenna trimmer (C₂) for a maximum output when the radio set is installed in the car after bench adjustment, or when the antenna has been replaced.
- * 1400 KC point : Tuner core stroke 16.7 mm.

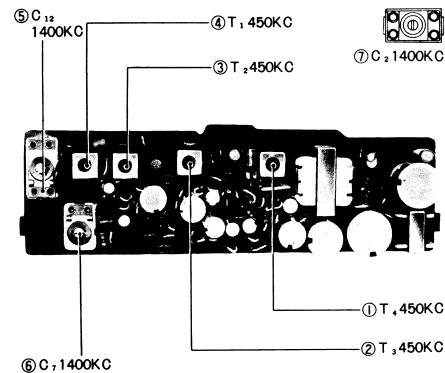


Fig. 8

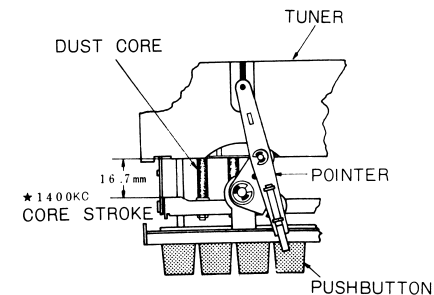
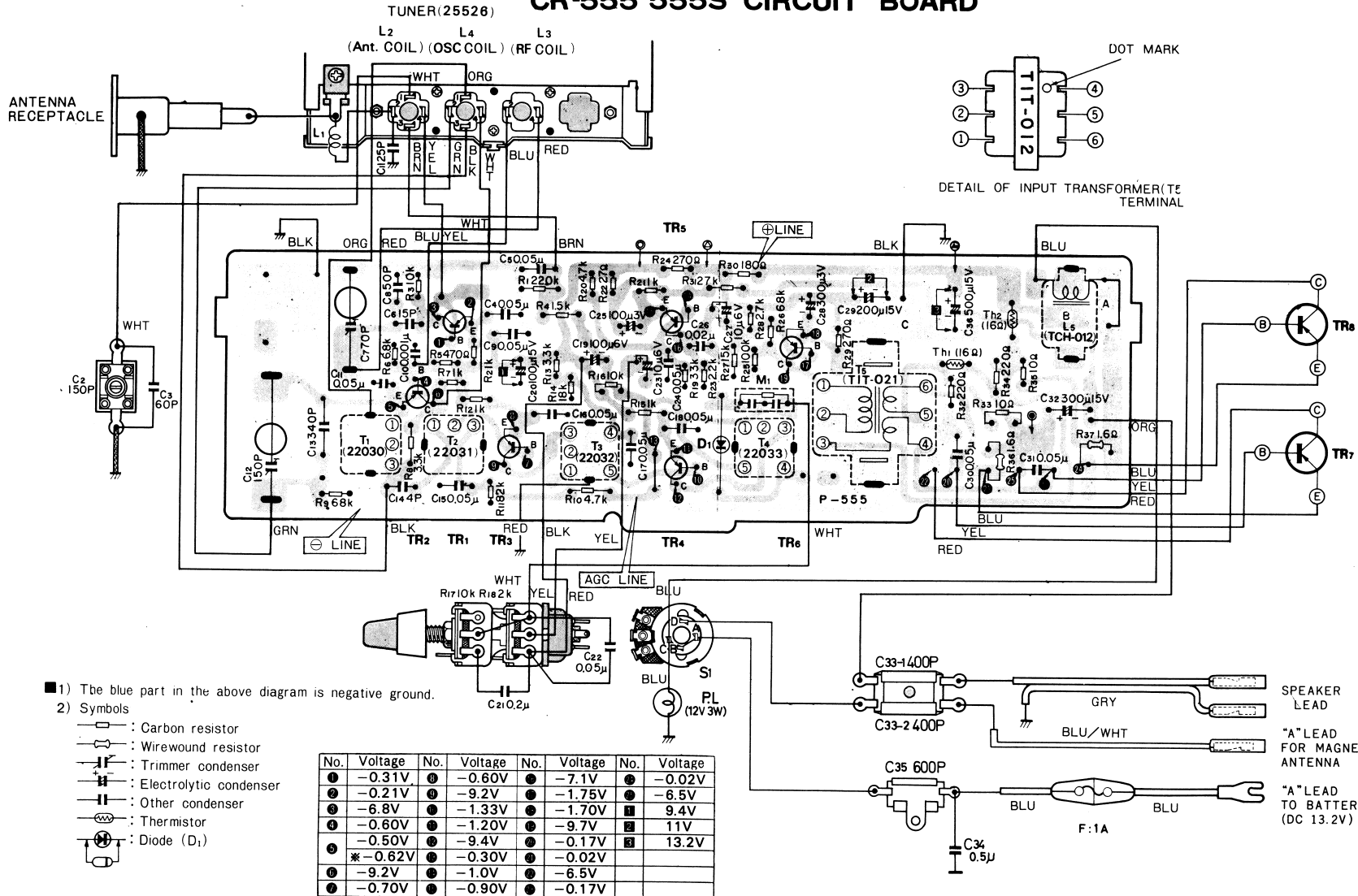


Fig. 9

CR-555 555S CIRCUIT BOARD

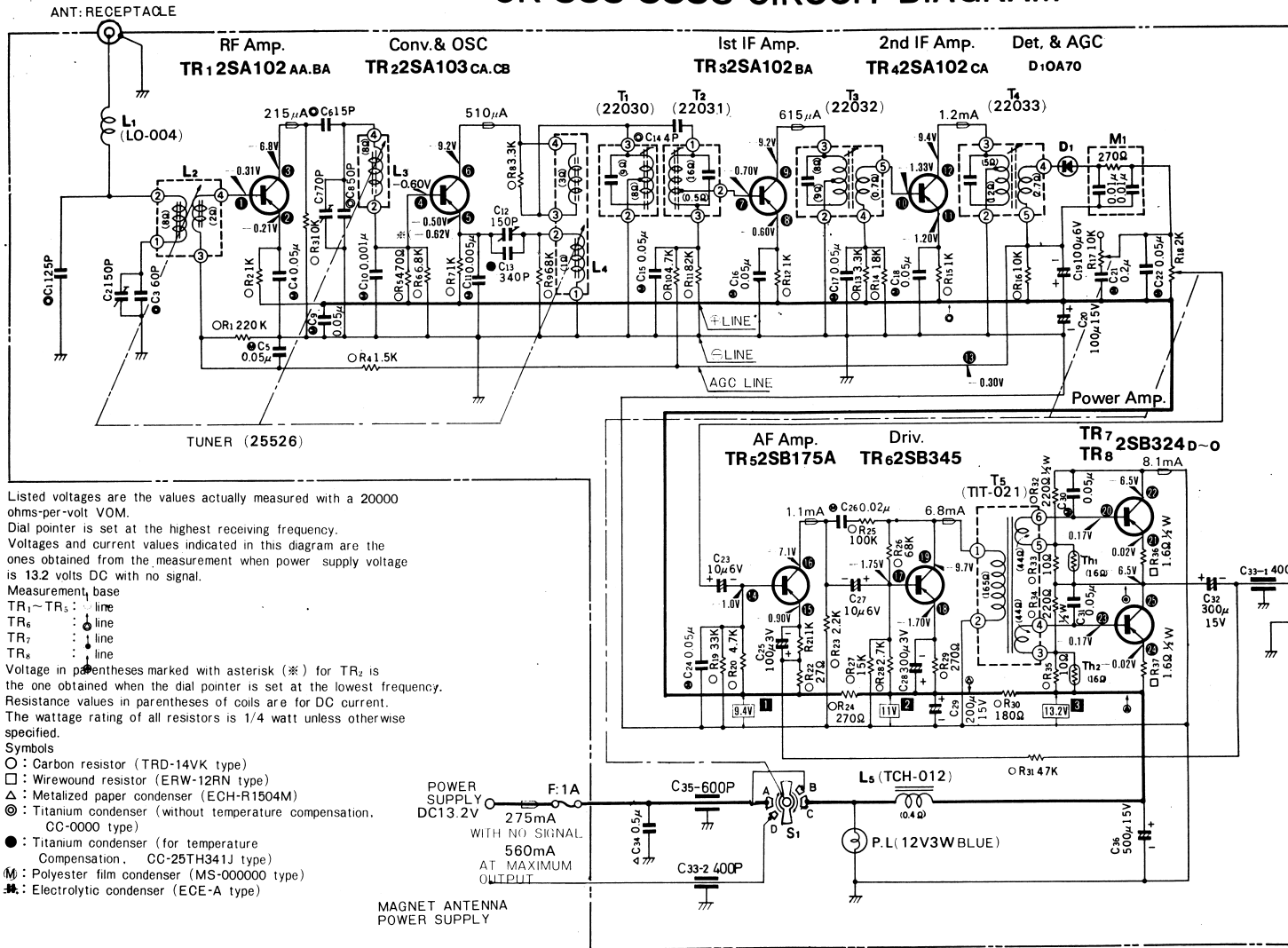


1) The blue part in the above diagram is negative ground.

2) Symbols

- : Carbon resistor
- : Wirewound resistor
- : Trimmer condenser
- : Electrolytic condenser
- : Other condenser
- : Thermistor
- : Diode (D₁)

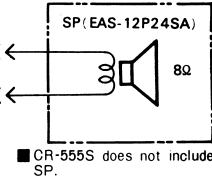
CR-555·555S CIRCUIT DIAGRAM



▶ ALTERED PARTS

SYM-BOL	ALTER-ACTION	DATE
R ₃	27K→47K	NOV. 1967 (From No.8101)

- 1) Listed voltages are the values actually measured with a 20000 ohms-per-volt VOM.
- 2) Dial pointer is set at the highest receiving frequency.
- 3) Voltages and current values indicated in this diagram are the ones obtained from the measurement when power supply voltage is 13.2 volts DC with no signal.
- 4) Measurement base
 TR₁ ~ TR₃: : line
 TR₆: : line
 TR₇: : line
 TR₈: : line
- 5) Voltage in parentheses marked with asterisk (*) for TR₂ is the one obtained when the dial pointer is set at the lowest frequency.
- 6) Resistance values in parentheses of coils are for DC current.
- 7) The wattage rating of all resistors is 1/4 watt unless otherwise specified.
- 8) Symbols
 ○ : Carbon resistor (TRD-14VK type)
 □ : Wirewound resistor (ERW-12RN type)
 △ : Metalized paper condenser (ECH-R1504M)
 ⊙ : Titanium condenser (without temperature compensation, CC-0000 type)
 ● : Titanium condenser (for temperature compensation, CC-25TH341J type)
 M : Polyester film condenser (MS-000000 type)
 * : Electrolytic condenser (ECE-A type)



R		1	2	3	4	5	6	7	8	9		10	11	12	22	13	27	14	26	15		16	32	34	17	36	18	
C	1	2	3	4	9	6	8	10	11	12		15	14	35	33-2	16	17	18	29			30	31	33	35	37		
L.T.M				5	7				13			34	24	23	25	26	27	28				20	31			36		
D.Th	L1	L2		L3					L4	T1	T2				T3						T4	D1	Th2	M1				