



Technical Manual

REMOTE CONTROL CENTER RR-700/RMR-90

REMOTE CONTROL TRANSMITTER RRT-1

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Serial Nos. Beginning
NE19661

THE ROTEL CO., LTD.
ROTEL ELECTRONICS CO., LTD.
ROTEL OF AMERICA, INC.
ROTEL HI FI LIMITED.

1-36-8 OHOKAYAMA, MEGURO-KU, TOKYO 152, JAPAN
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13528 SO. NORMANDIE, GARDENA, CALIF. 90249, U.S.A.
24 ERICA ROAD, STACEY BUSHES, MILTON KEYNES,
BUCKINGHAMSHIRE, ENGLAND

ERRATA

A. Parts List (page 3)

1. X301 Ceramic Resonator
Part No. 228641213 should read **224110008**.
2. Socket, AC Outlet,
for Europe
Part No. 648211316 should read **648211311**.
for UK
Part No. 648211311 should read **648211316**.
3. Polyethylene Bag for RR-700
Part No. 855004255 should read **855004260**.

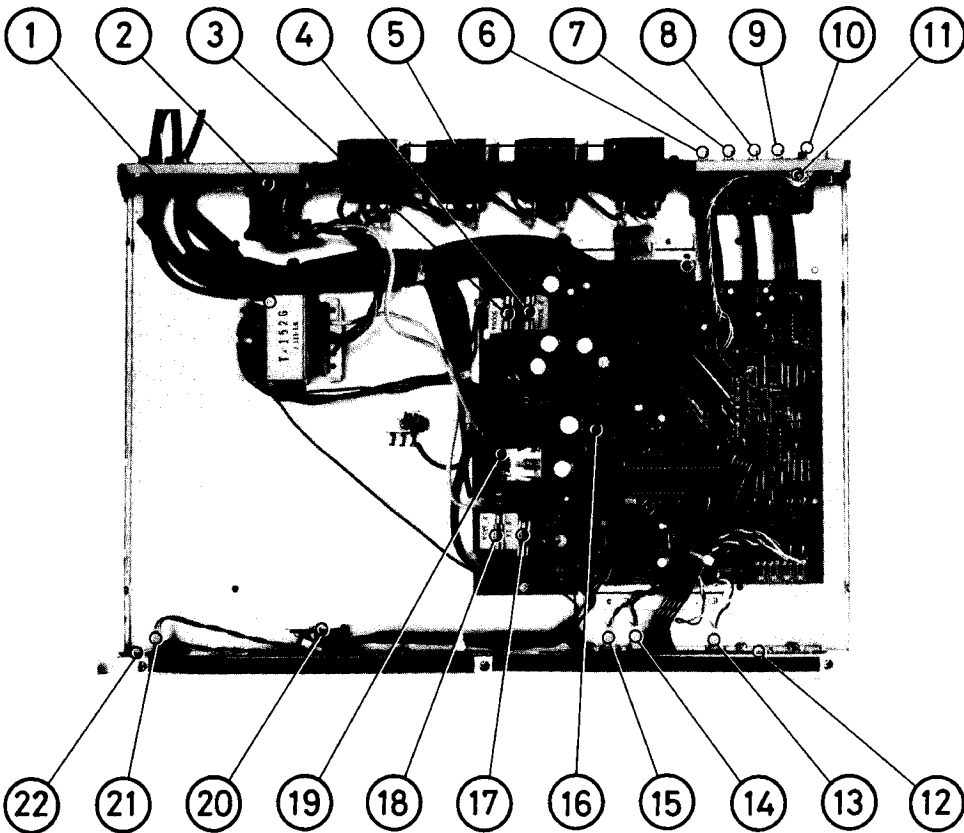
B. Schematic Diagram and P-c Board Diagrams

1. AUX should read **PHONO**.
2. R305, 10K, which is connected to p-c board pin 9
should read **R306, 10K**.
3. C001, 0.047 should read **C001, 0.022 (220/240V)** or
NSK-135 (120V) (applicable to Schematic Diagram
only).

Chassis Layout (Top View)

Installation du châssis (vue de dessus)

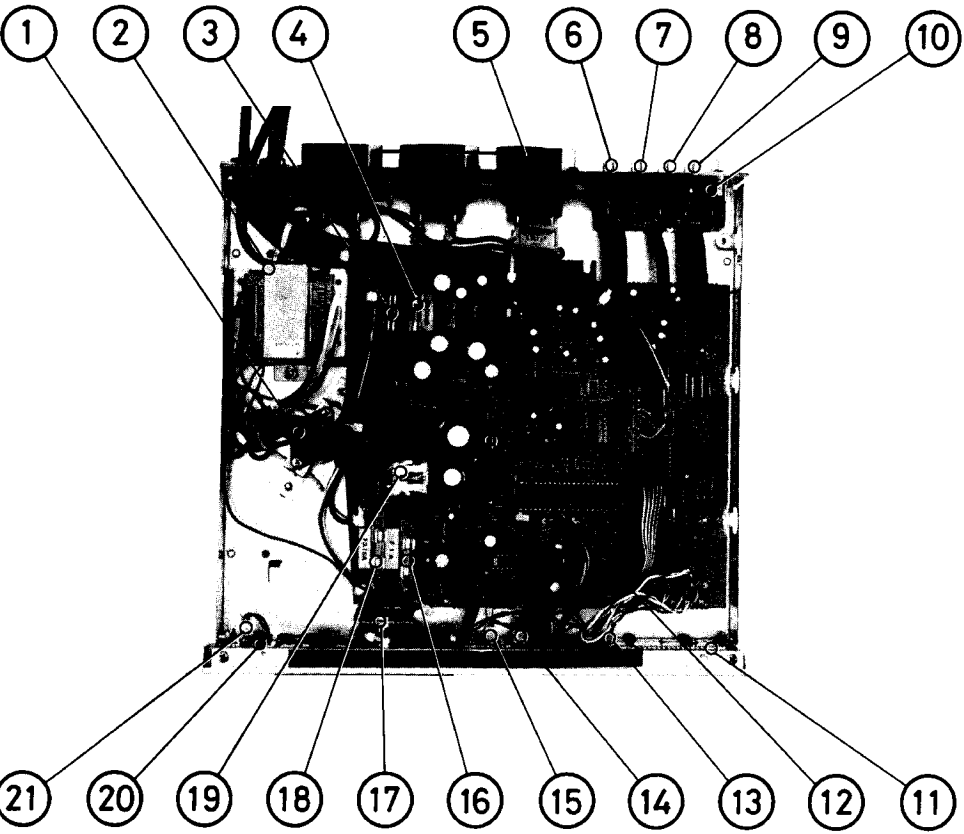
RR-700



1. POWER TRANSFORMER
2. VOLTAGE SELECTOR
3. F302, SECONDARY FUSE
4. F303, SECONDARY FUSE
5. AC OUTLETS
6. OUTPUT JACK
7. TAPE OUT JACK
8. TAPE IN JACK
9. TUNER JACK
10. INPUT JACK
11. TUNER/RECEIVER SWITCH
12. FUNCTION SWITCH PCB
13. MUTING INDICATOR
14. TUNER INDICATOR
15. TAPE INDICATOR
16. RY302, TURNTABLE RELAY
17. F304, SECONDARY FUSE
18. F301, PRIMARY FUSE
19. RY301, POWER RELAY
20. TARGET EYE PCB
21. POWER INDICATOR
22. POWER SWITCH PCB

Photo: European specification

RMR-90



1. VOLTAGE SELECTOR
2. POWER TRANSFORMER
3. F302, SECONDARY FUSE
4. F303, SECONDARY FUSE
5. AC OUTLETS
6. OUTPUT JACK
7. TAPE OUT JACK
8. TAPE IN JACK
9. TUNER JACK
10. INPUT JACK
11. FUNCTION SWITCH PCB
12. RY302, TURNTABLE RELAY
13. MUTING INDICATOR
14. TUNER INDICATOR
15. TAPE INDICATOR
16. F304, SECONDARY FUSE
17. TARGET EYE PCB
18. F301, PRIMARY FUSE
19. RY301, POWER RELAY
20. POWER SWITCH PCB
21. POWER INDICATOR

Photo: European specification

Note: Marking on transformer and installation manner of the transformer may differ from the photo above.

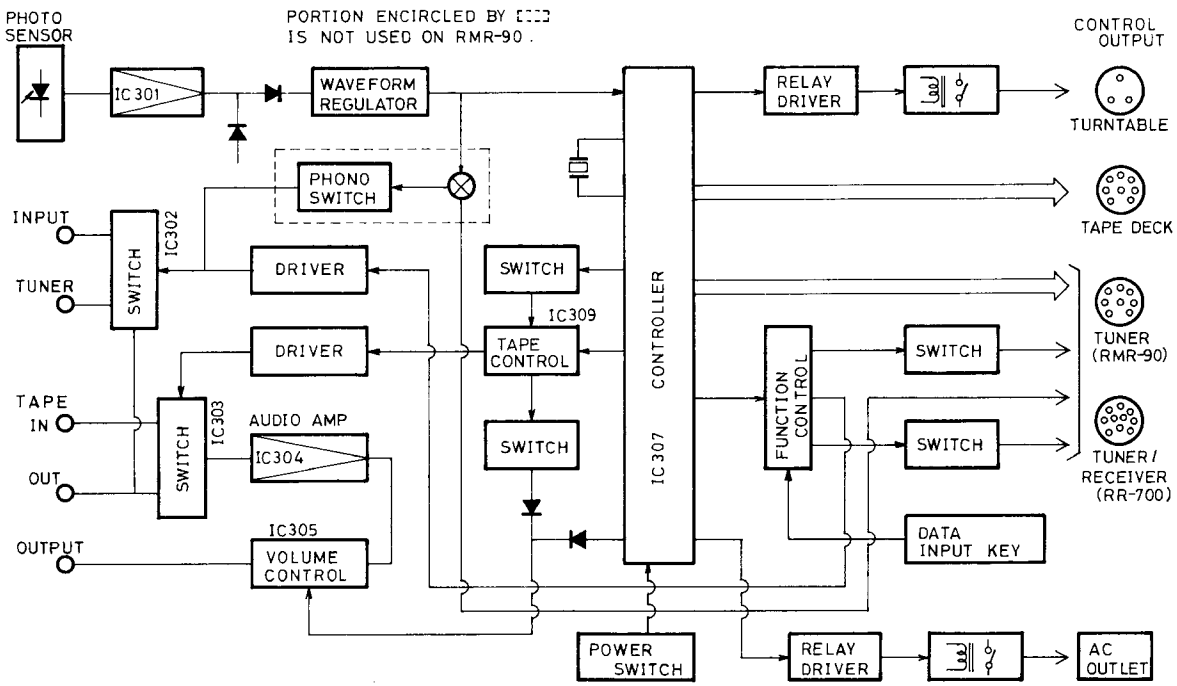
Schematic Location	Description	Part No.
	Stylofoam Moulding, RR-700	815001285
	Stylofoam Moulding, RMR-90	815001286
	Screw, M2 x 4 (BLZ), Bind	705222004
	Screw, M3 x 6 (Ni), Bind	705213006
	Screw, M3 x 8 (BLZ), Bind	705223008
	Screw, M4 x 8 (BLZ) w/FW, Bind*1	755224008
	Screw, M3 x 6 (Ni), countersunk	701213006
	Screw, TP3 x 8 (Ni)	726213008
	Screw, TP3 x 8 (BLZ)	726223008
	Screw, TP3 x 10 (BLZ)	726223010
	Screw, TP3 x 6 (Ni), Oval-countersunk	722213006
	Screw, TP3 x 8 (Ni), Oval-countersunk	722213008
	Screw, Tap-tight, 2.6 x 6 (BLK), Bind*2	765222606
	Screw, Tap-tight, 3 x 8 (Ni), Bind	765213008
	Screw, M3 x 5.5 (BLZ), Flat	770911166
	Insertion, M3, L=12	770911268
	GND Screw	770911282
	Nut, M3, Hexagonal	770402201
	Washer, Flat, M3	770500003
	Washer, Spring, M3	770500010

Notes:
*1 Not used on model RMR-90.
*2 Not used on model RR-700.
*3 Not used for CSA version.
*4 Not used on 120 V units.

Remote Control Transmitter RRT-1

Schematic Location	Description	Part No.
TRANSISTORS, DIODES AND IC		
Q101, 102	2SAG08NP (F or G),	301001185
Q103	2SC2274 (E or F),	301201231
D101	LN221RP, LED (RED)	300414050
D102, 103	MA150, (Si),	300111016
D104, 105	NJL1102L, LED (INFRARED)	300414049
IC101	TC9132P, Remote Control Sender	303452273
OTHERS		
X101	Ceramic Resonator, 455kHz	224110008
S101 to 121	Key Board Switch	615212297
	Transmitter P-c Board Ass'y	141811225
	Mould Case w/Optical Filter	114902394
	Panel Ass'y	111911599
	Button, Key Switch	116210108
	Contact Plate, Battery	648211317
	Sponge, 30 x 30 x 3	990201356
	Rubber	990201357
	Polyethylene Bag	855001030
	Screw, TP 3 x 6	726213006

Block Diagram Schéma synoptique



BLOCK DIAGRAM MODEL RR-700 / RMR-90

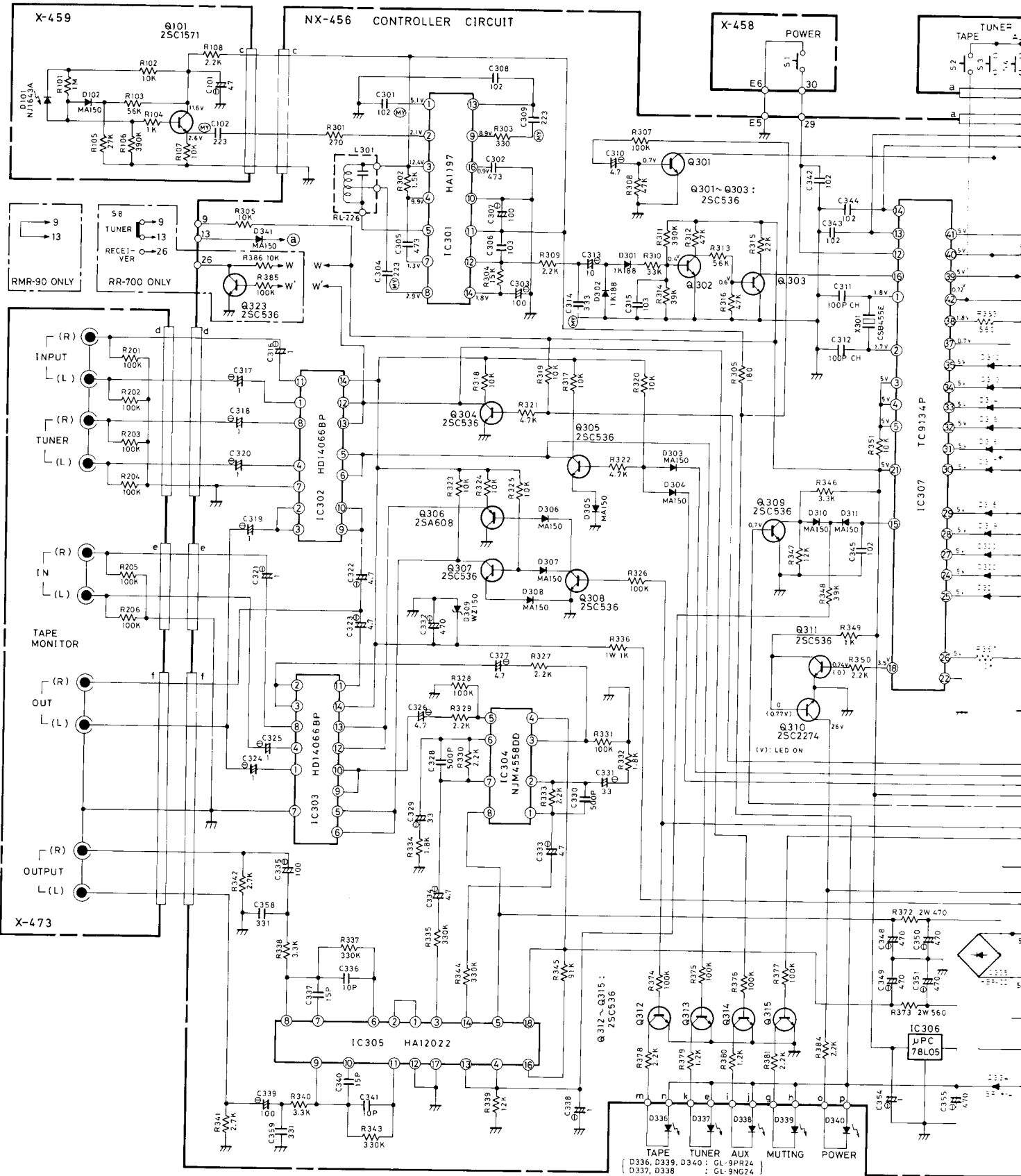
Addendum





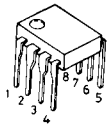
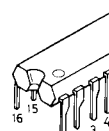
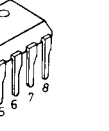
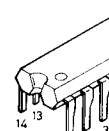
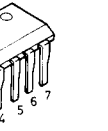
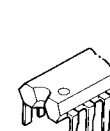

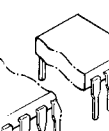

1. A ceramic capacitor, 0.1 mfd, 50 V is additionally installed between pin 21 of IC307 (TC-9134) and grounding.
Reason: To prevent malfunction of IC307, possibly resulting from spark induction when the relay is turned on or off.

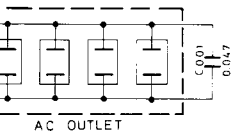
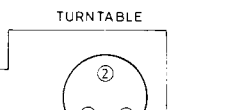
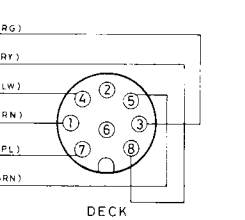
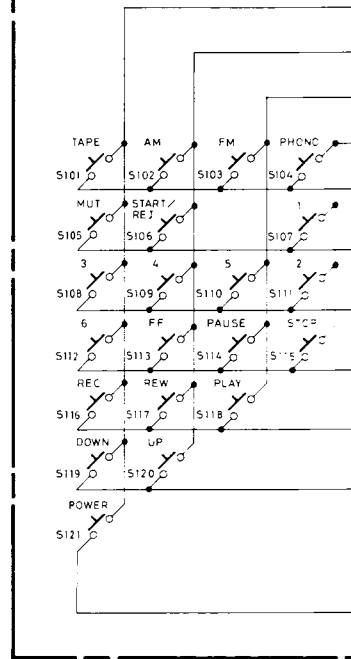
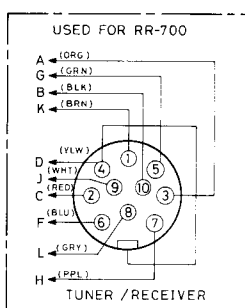
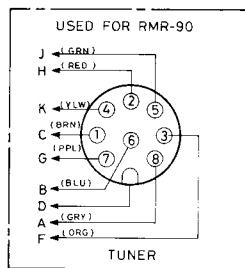
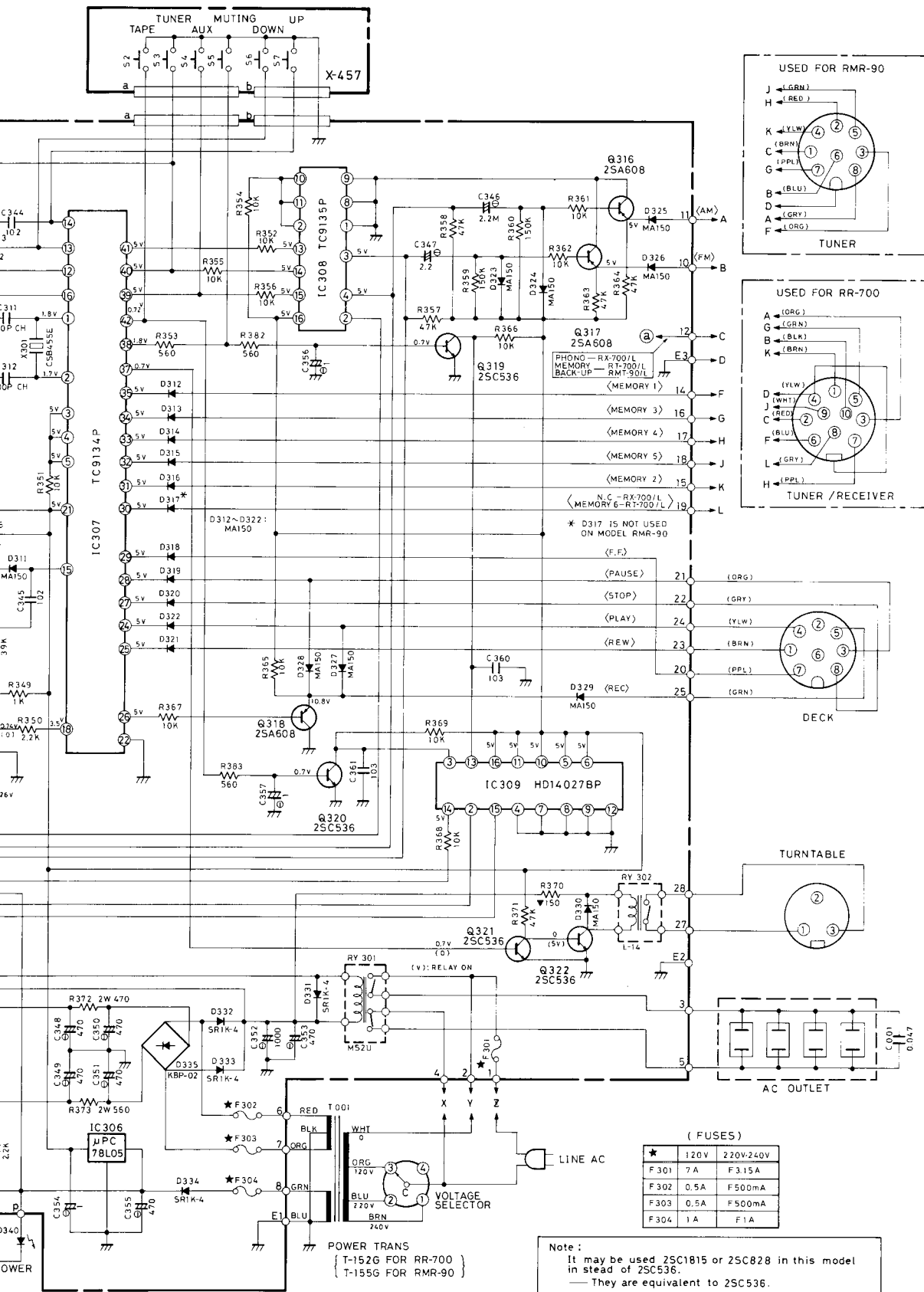
Schematic Diagram

Diagramme schématique

MAIN UNIT RR-700/RMR-90 UNITE PRINCIPALE RR-700/RMR-90



- 
2SC2274
- 
2SA608
- 
2SC536NP
- 
2SC1571
- 
NJM4558DD
- 
TC9135P
- 
HA1197
- 
HD14066BP
- 
HD14027BP
- 
TC9132P
- 
TC9134P
- 
78L05
- 
HA12022



(FUSES)

★	120V	220V-240V
F 301	7 A	F 3.15 A
F 302	0.5 A	F 500 mA
F 303	0.5 A	F 500 mA
F 304	1 A	F 1 A

Note:
It may be used 2SC1815 or 2SC828 in this model in stead of 2SC536.
— They are equivalent to 2SC536.

MODEL RR-700 / RMR 90

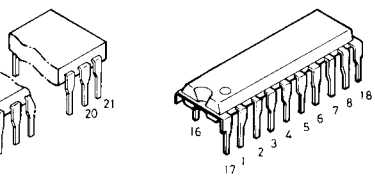
RESISTORS

Unless otherwise specified, resistors are 1/4 watts, low noise type carbon film type with a tolerance of 5%.
K Kilohm
M Megohm
▼ Uninflamable carbon film resistor, 1/2 watts

CAPACITORS

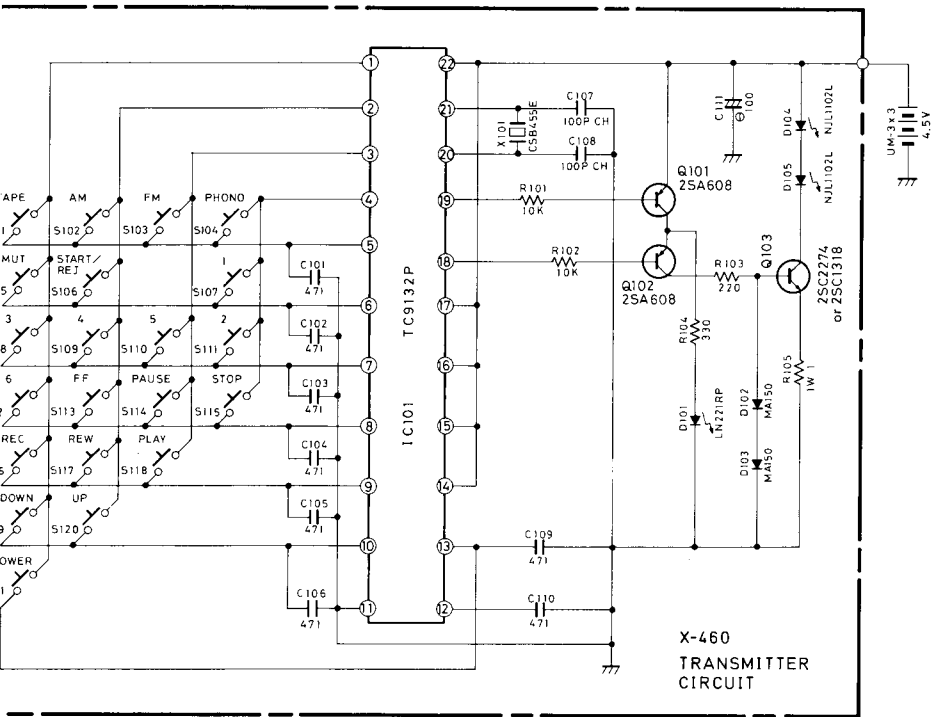
Unless otherwise specified, all capacitance values are expressed in mfd.
MY Mylar film capacitor
T Tantalum capacitor
E Electrolytic capacitor
Non mark Ceramic capacitor

- Voltage read with VTVM across the point shown and the chassis ground (line voltage: 120V)
- Voltage reading tolerance: ±20%



HA12022

**SMITTER UNIT RRT-1
E EMETTEUR RRT-1**



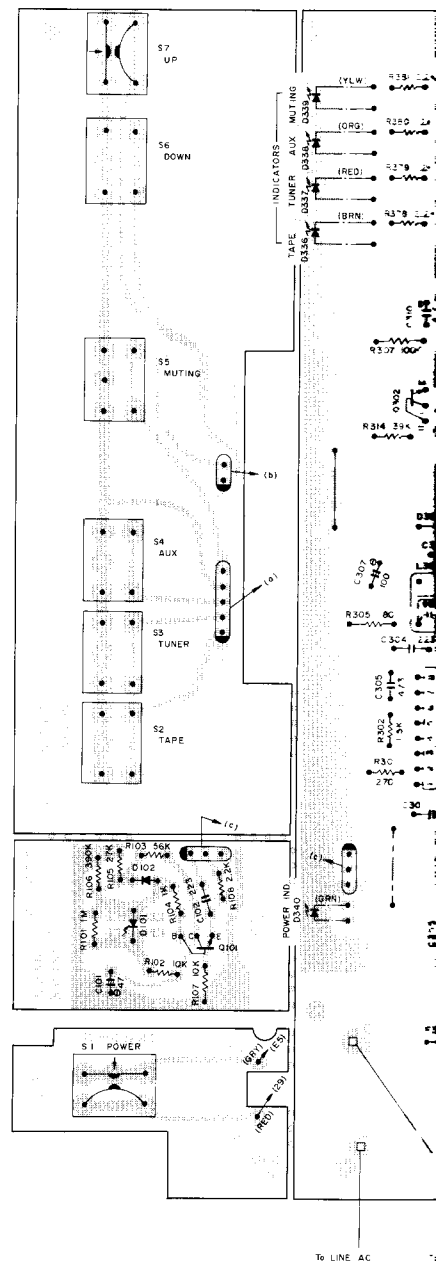
**CONTROL CENTER CIRCUIT RR-700
CIRCUIT DU UNITE PRINCIPALE RR-700**

Schematic Diagram
RRT-1
1981, 6, 18 TERAYAMA

GUIDE OF REMOTE CONTROL TERMINALS					
	PIN No.	FUNCTIONS		COLOR OF WIRE	
		RR-700	RMR-90	RR-700	RMR-90
TUNER/RECEIVER	10	FM		BLK	BLU
	11	AM		ORG	GRY
	12	PHONO/MEMORY BACK-UP	MEMORY BACK-UP	RED	BRN
	14	MEMORY 1		BLU	ORG
	15	MEMORY 2		BRN	YLW
	16	MEMORY 3		GRN	PPL
TAPE DECK	17	MEMORY 4		PPL	RED
	18	MEMORY 5		WHT	GRN
	19	MEMORY 6 (RT-700/-L ONLY)	NOT USED	GRY	—
	20	F.F		PPL	
	21	PAUSE		ORG	
	22	STOP		GRY	
TURN-TABLE	23	REW		BRN	
	24	PLAY		YLW	
	25	REC		GRN	
TURN-TABLE	27	START/REJECT		ORG	
	28			BRN	

Note: Pin 12 on RR-700:

When switch S8 on the rear panel is set to "RECEIVER": PHONO
When switch S8 is set to "TUNER": MEMORY BACK-UP

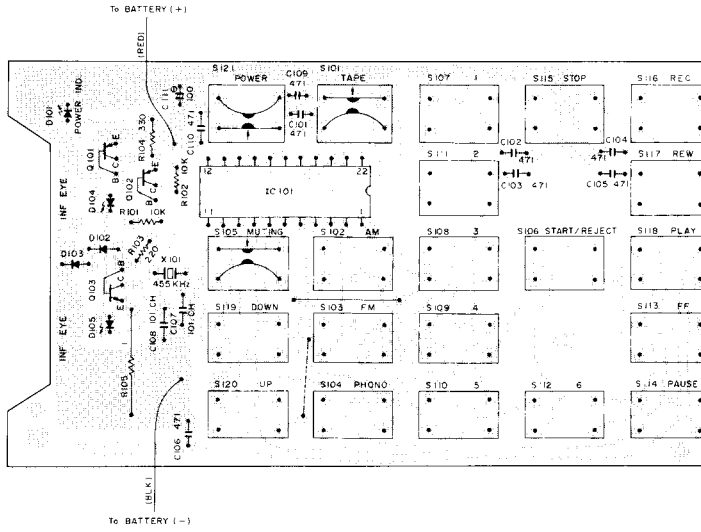


capacitance values are

itor
tor
citor
or

ross the point shown and
ge: 120V)
20%

REMOTE CONTROL TRANSMITTER CIRCUIT RRT-1 CIRCUIT DU UNITE EMETTEUR RRT-1



CONTROL CENTER CIRCUIT RR-700/RMR-90 CIRCUIT DU UNITE PRINCIPALE RR-700/RMR-90

- Notes:
- *1 and are used on model RR-700 only.
 - For RR-700, *2 is connected to TUNER/RECEIVER SWITCH. For RMR-90, pin 9 is short-circuited to pin 13.

