ORDER NO. ARD-7702009C

Service Manual

Cassette Deck

RS-600US

for United Kingdom

Stered Cassette Deck with 3-Position Tape Selector

RQ-543 MECHANISM SERIES

Specifications (Catalog specifications for sales)

Power requirement:	AC; 240V, 50Hz Power consumption; 8W
Motor:	DC electronic speed control motor
Track system:	4-track 2-channel stereo recording and playback
Tape speed:	4.8cm/s
Wow and flutter:	0.15% (WRMS)
Frequency response:	CrO_2 tape; 40~13,000Hz Normal tape; 40~11,000Hz
Signal-to-noise ratio:	45dB (Signal level=250nWb/m)
Fast forward and rewind time:	Approx. 120 seconds with C-60 cassette tape
Input:	MIC; sensitivity 0.25mV/applicable microphone impedance 600Ω~20KΩ LINE; sensitivity 64mV/input impedance 390KΩ
Output:	LINE; output level 0.7V/load impedance 50KΩ over HEADPHONE; output level 60mV/load impedance 8Ω
REC/PB connection:	5P DIN type input level 0.28mV/1.8KΩ output level 0.7V/10KΩ
Head:	2-head system 1-super permalloy head for record/playback 1-ferrite head for erasing
Dimensions:	36cm(W)×9.7cm(H)×23.6cm(D)
Weight:	2.9kg

Specifications are subject to change without notice.

National Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

LOCATION OF CONTROLS AND COMPONENTS

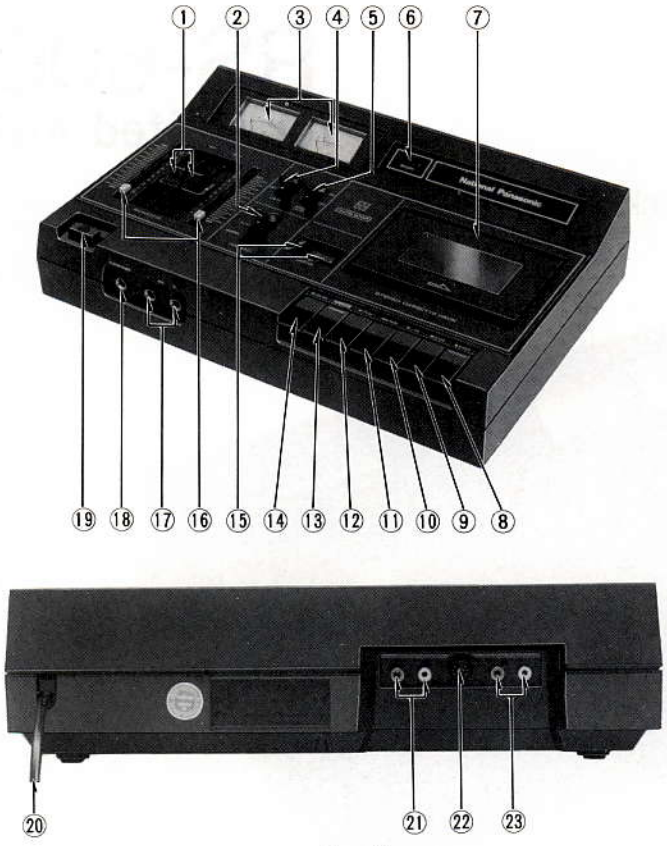


Fig. 1

① Level controls
② Tape selector
③ Level meters
④ Limiter switch
⑤ Noise filter switch
⑥ Recording indication lamp
⑦ Cassette compartment door
⑧ Eject button
⑨ Stop button
⑩ Fast forward button
⑪ Rewind button
⑫ Playback button
⑬ Record button
⑭ Pause button
⑮ Tape counter and reset button
⑯ Pre-set markers
⑰ Microphone jacks
⑱ Headphones jack
⑲ Power switch
⑳ Power cord
㉑ Line output jack
㉒ Record/playback connection socket
㉓ Line input jack

DISASSEMBLY INSTRUCTIONS

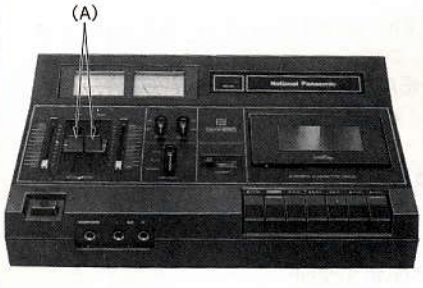


Fig. 2

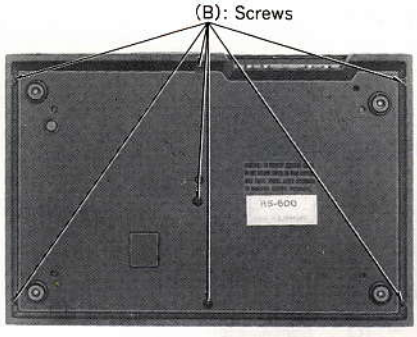


Fig. 3

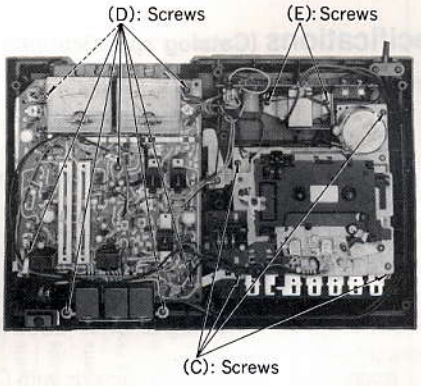


Fig. 4

Procedure	To remove ——.	Remove ——.	Pcs.	Shown in fig. ——.
1	Front panel assembly	(A), (B)	2, 7	2, 3
2	Mechanism	(C)	4	4
3	Main circuit board	(D)	7	4
4	Power supply circuit board	(E)	2	4

SERVICE TECHNIQUES

TAPE WINDING MALFUNCTION

Although unlikely to happen, if the tape should become wound onto the capstan or pressure roller, and thus making it impossible to open the cassette door, follow the procedure described below.

〔How to open the cassette door〕

(A) Using a ⊖ screwdriver, remove the hole cap on the bottom of the unit.

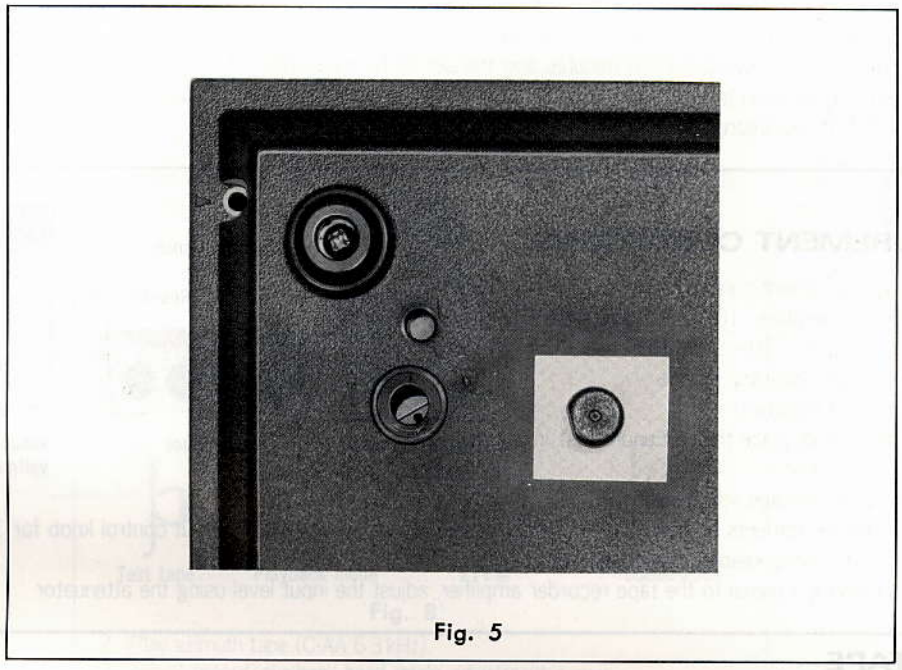


Fig. 5

(B) After this cap is removed, the motor pulley can be seen. There is a ⊜ groove cut in the motor pulley. Using a ⊖ screwdriver, rotate this motor pulley to the left (↶) in order to loosen the tape wound around the capstan or pressure roller.

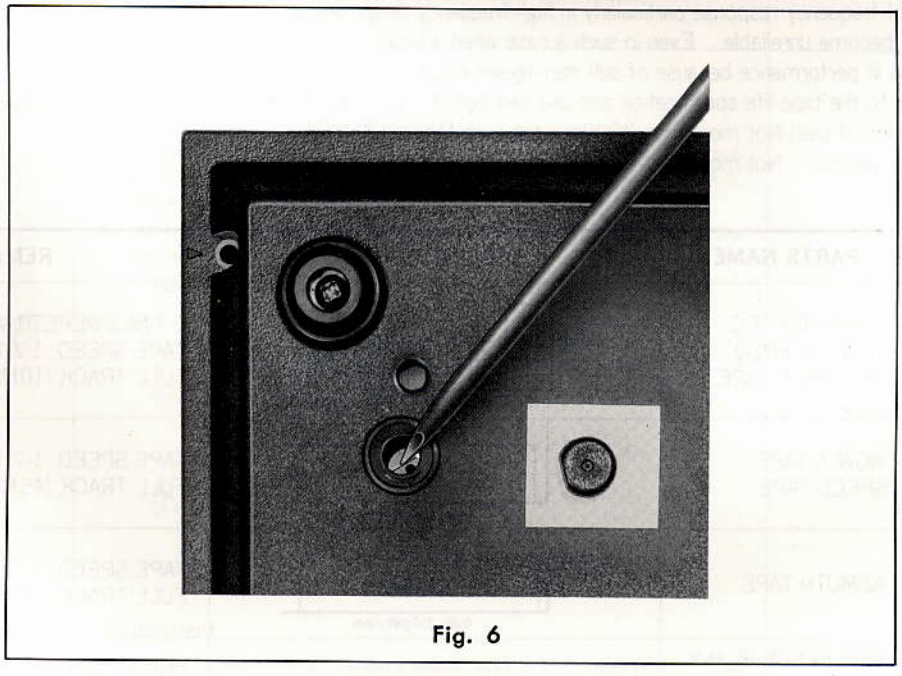


Fig. 6

(C) The cassette door can be easily opened after the tape is loosened.

ADJUSTMENTS

Before measuring and adjusting "Overall frequency response", "Overall distortion" and "Overall S/N ratio", confirm that the characteristics of 5 items below are within standard which have much relation to or influence on electrical performances above.

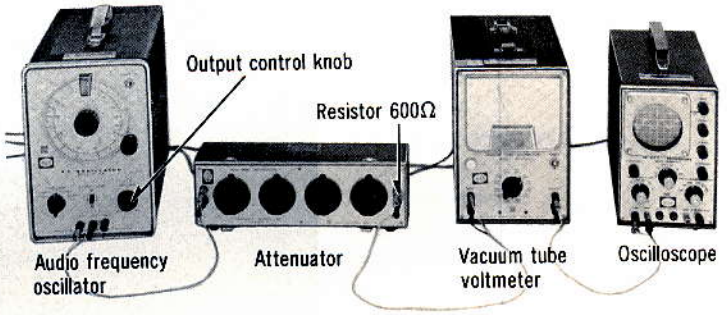
1. Head azimuth adjustment. 2. Bias current. 3. Playback gain. 4. Overall gain.
5. Playback frequency response.

I. TEST INSTRUMENTS

1. Prepare test instruments which are equivalent in accuracy to those shown below.
2. The test instruments should be inspected and corrected by specialists once every 6 months, because a long period of use without maintenance may increase errors in indication.
3. Warm-up the test instruments for 30 minutes and the set to be measured for 10 minutes before taking the measurements. If not, there may arise an error or difference between the initial value and the stabilized value measured after "aging".
4. Specifications of test instruments.

II. MEASUREMENT CONDITIONS

1. Standard measurement conditions
   * Ambient temperature: 10~30°C (50~86°F)
   * Ambient humidity: 30~90% RH
   * Power voltage accuracy: ±3%
2. Position of tape recorder
   * When measuring, place the unit under test in a horizontal position.
3. Oscillator output voltage adjustment
   * Connect the equipments as shown in the following and adjust the oscillator output control knob for 1 V (f = 1 kHz) through the attenuator while keeping the attenuator at 0 dB.
   * When supplying a signal to the tape recorder amplifier, adjust the input level using the attenuator.



III. TEST TAPE

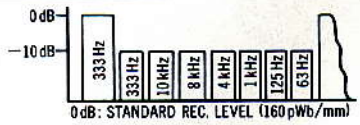
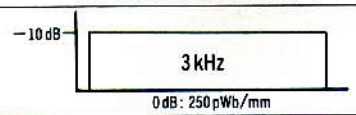
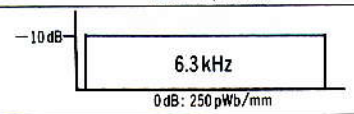
Test tape life

The more frequently the test tape is used, the more the tape characteristics will deteriorate (e.g. lowering of recorded level, worsening of frequency response particularly in high-frequency range, and an increase in wow due to tape elongation) until measured values become unreliable. Even in such a case when a tape is not used, but stored, for a long period of time, tape shows deterioration in performance because of self damagenetization due to storage conditions, etc.

Please refer to the tape life specification and use care not to use a tape longer than its rated life when servicing.

Frequence of use: Not more than 20 times for each tape length.
Storage period: Not more than 6 months.

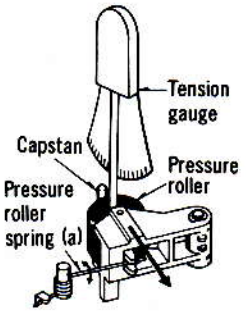
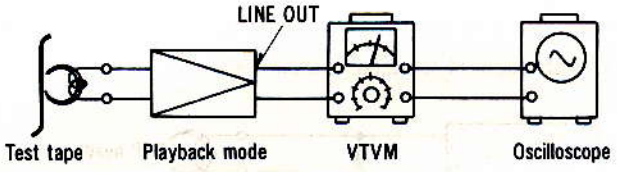
※ Test tape

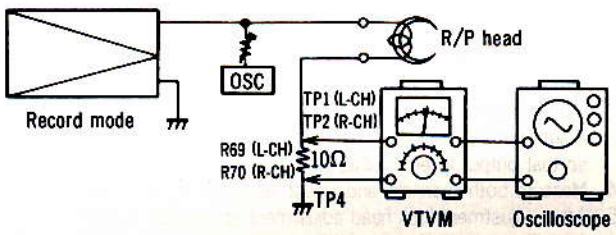
PARTS NO.	PARTS NAME	SPECIFICATIONS	REMARKS
C-FH	STANDARD REC. LEVEL & FREQ. RESPONSE TAPE		5 TIMES REPETITIVE RECORDING TAPE SPEED: 1-7/8IPS. (4.8CM/S), FULL TRACK (10MIN.)
C-WAT	WOW & TAPE SPEED TAPE		TAPE SPEED: 1-7/8IPS. (4.8CM/S), FULL TRACK (45MIN.)
C-AA	AZIMUTH TAPE		TAPE SPEED: 1-7/8IPS. (4.8CM/S), FULL TRACK (15MIN.)
C-RA	REFERENCE BLANK TAPE (NORMAL)		UNRECORDED TAPE (20MIN.)
C-RF	REFERENCE BLANK TAPE (CrO_2)		UNRECORDED TAPE (20MIN.)

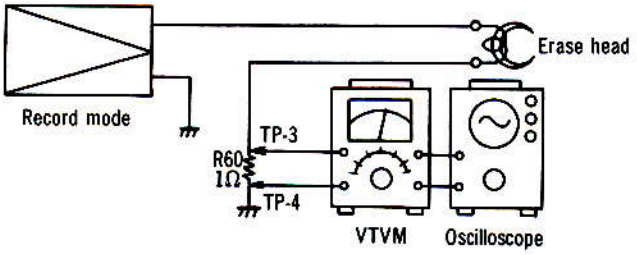
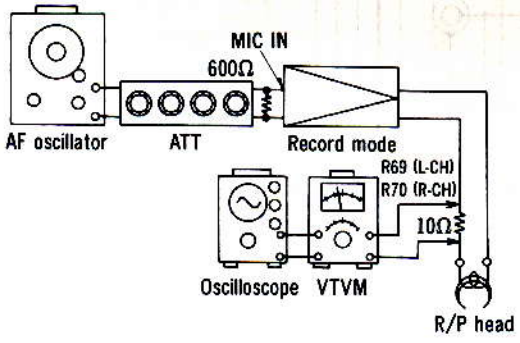
IV. MEASUREMENT & ADJUSTMENT METHOD

NOTE:

1. Make sure heads are clean.
2. Make sure capstan and pressure roller are clean.
3. Judgeable room temperature: 20±5°C (68±9°F)
4. Limiter switch: OFF
5. Noise filter switch: OFF
6. Output level control: MAX.

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Pressure of pressure roller Equipment: • Tension gauge (max. 500 gr)	1. Set into playback mode. 2. Connect the tension gauge to the pressure roller lever and pull it in the direction of the arrow as shown in fig. 7. 3. Measure the tension at the moment when the pressure roller moves away from the capstan. **Standard tension: 400±60 gr** 4. If the tension is out of tolerance, bend the part (a) of pressure roller spring in either direction shown by the arrow.	 **Fig. 7**
Head azimuth adjustment Equipment: • VTVM • Oscilloscope • Test tape (azimuth)···C-AA	**Record/playback head adjustment** 1. Test equipment connection is shown below.  **Fig. 8** 2. Play azimuth tape (C-AA 6.3 kHz). 3. Adjust record/playback head angle adjustment screw so that output level at LINE OUT becomes maximum. 4. Measure both channels, and adjust levels for equal output. 5. After adjustment lock head adjustment screw with lacquer.	
Playback frequency response	1. Test equipment connection is shown in fig. 8. 2. Set the tape selector switch to "Normal" position. 3. Play frequency response tape (C-FH). 4. Measure output level at 10 kHz, 8 kHz, 125 Hz and compare each output level with output level of standard frequency 333 Hz at LINE OUT. 5. Make measurement for both channels. 6. Make sure that the measured value is within the range specified in the below chart. [NORMAL] 125 Hz: +1±4 dB 8 kHz: 0±4 dB 10 kHz: 0±2 dB [Fe-Cr] 125 Hz: +1±4 dB 8 kHz: 0±4 dB 10 kHz: 0±3 dB [CrO_2] 125 Hz: +1±4 dB 8 kHz: 0±4 dB 10 kHz: 0±3 dB **Adjustment** If measured value is not in standard, adjust VR7 (L-CH), VR8 (R-CH) (See adjustment part location on page 6).	

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Playback gain Equipment: • VTVM • Oscilloscope • Test tape···C-FH	1. Test equipment connection is shown in fig. 8. 2. Set the tape selector switch to "Normal" position. 3. Play standard recording level portion on test tape (C-FH 333 Hz) and, using VTVM, measure the output level at LINE OUT jack. 4. Make measurement for both channels. **Standard Value: 0.7 V** **Adjustment** If measured value is not standard, adjust VR5 (L-CH), VR6 (R-CH) (See adjustment part location on page 6). **Note:** Before adjustment, check "Playback Frequency Response".	
Bias current Equipment: • VTVM • Oscilloscope	1. Test equipment connection is shown below.  **Fig. 9** 2. Place UNIT into record mode, and tape selector switch to "CrO_2" position. 3. Read voltage on VTVM and calculate bias current by following formula. $\text{Bias current (A)} = \frac{\text{Value read on VTVM (V)}}{10\ (\Omega)}$ **Standard Value: 510μA (Voltage: 5.1 mV)** 4. Adjust L1 (L-CH), and L2 (R-CH) (See adjustment part location on page 6). 5. Then changing the tape selector switch to "Normal" and "Fe-Cr" position, confirm the bias current. **Normal: 360μA±50μA (Voltage: 3.6 mV±0.5 mV)** **Fe-Cr: 410μA±50μA (Voltage: 4.1 mV±0.5 mV)**	• Record mode • Be sure the ground end of the meter is connected to the ground end of the resistor. • When bias current is adjusted on one channel only, note that bias current on the other channel may vary.

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
Erase current Equipment: * VTVM * Oscilloscope	1. Connect VTVM between TP-3 ⊕ and TP-4 ⊖ (See adjustment part location on page 6).  **Fig. 10** 2. Place UNIT into record mode and, measure voltage across the 1Ω resistor. 3. Determine erase current with the following formula. $\text{Erase current (A)} = \frac{\text{Voltage at both ends of R60 (V)}}{1\,(\Omega)}$ **Standard Value** current: Normal over 40mA; Fe-Cr over 45mA; CrO_2 over 55mA voltage: Normal over 40mV; Fe-Cr over 45mV; CrO_2 over 55mV	* Record mode
Level meter Equipment: * VTVM * Oscilloscope * AF oscillator * ATT	1. Test equipment connection is shown below.  **Fig. 11** 2. Supply 1kHz signal (−72dB) from AF oscillator, through ATT, to MIC jack. 3. Adjust ATT so that recording current at TP-1 (L-CH) and TP-2 (R-CH) indicates 40μA. 4. Adjust VR3 (L-CH), VR4 (R-CH) so that VU meter indicates 0VU.	* Tape selector switch ……Normal * Stop the bias oscillation (Disconnet the 6 pin housing as shown in fig. 12 page 6).

ITEM	SPECIFICATION	REMARKS
Takeup tension.	50 gr-cm ± 15 gr-cm	* Use torque meter (SRK-CT).
Tension of detect piece.	65 gr ± 10 gr	* Use tension gauge (max. 100 gr).
Wow and flutter.	0.25% WRMS	———
Tape speed accurracy.	±3%	———
Standard recording input level.	MIC: −72 ± 4 dB LINE IN: −24 ± 4 dB	* To obtain 40μA of current through recording head. * Tape selector switch is "Normal" position.
Overall gain.	NORMAL Fe-Cr CrO_2 } over 0.48 V	* Record 1 kHz with standard recording input level, and playing back the tape, read the output value.
Overall frequency response.	[NORMAL] 100 Hz: 0 ± 4 dB 8 kHz: +1 ± 5 dB 10 kHz: −1 ± 4 dB [Fe-Cr] 100 Hz: 0 ± 4 dB 8 kHz: 0 ± 5 dB 10 kHz: −1 ± 4 dB [CrO_2] 100 Hz: +1 ± 4 dB 8 kHz: +1 ± 5 dB 10 kHz: 0 ± 4 dB	* Record the signal with 20 dB lower than standard recording input level. * Playback and express in dB the difference between playback output level of each frequency based on playback output level of 1 kHz.
Overall S/N response.	over 35 dB	———

ADJUSTMENT PARTS LOCATION

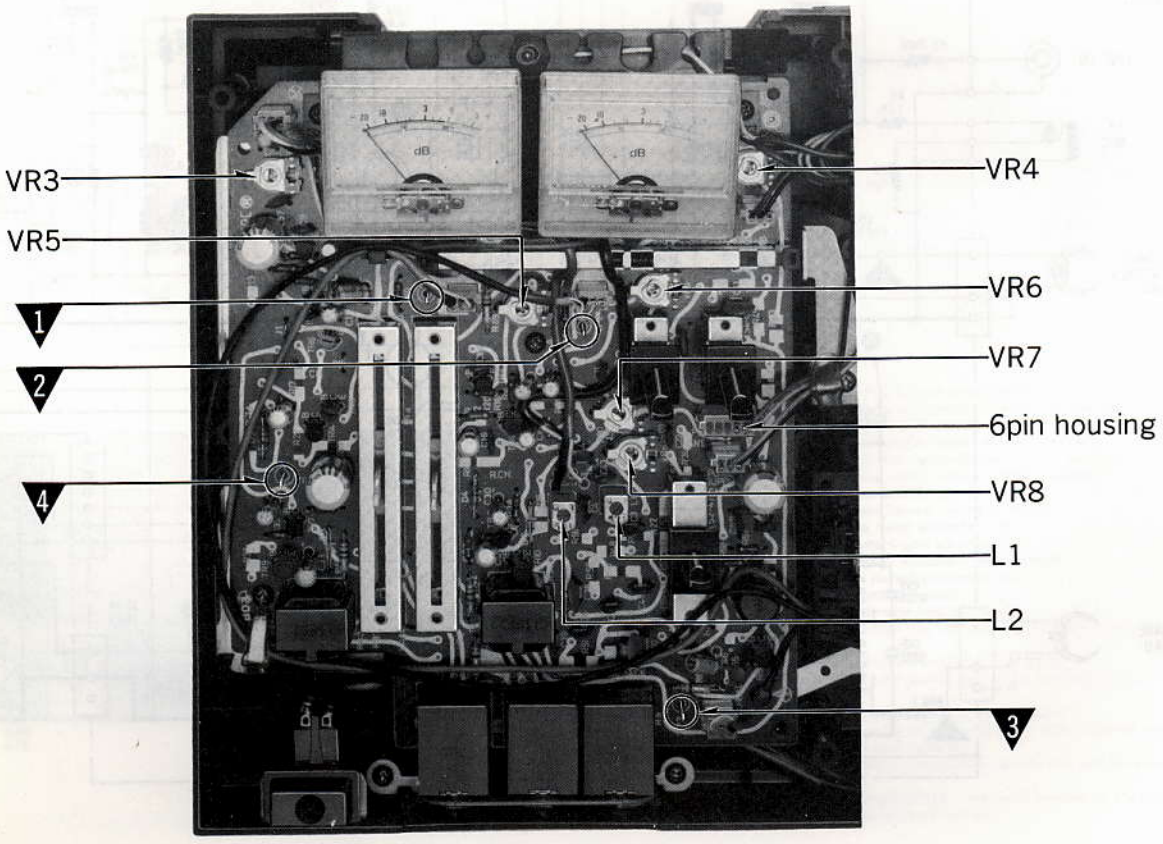
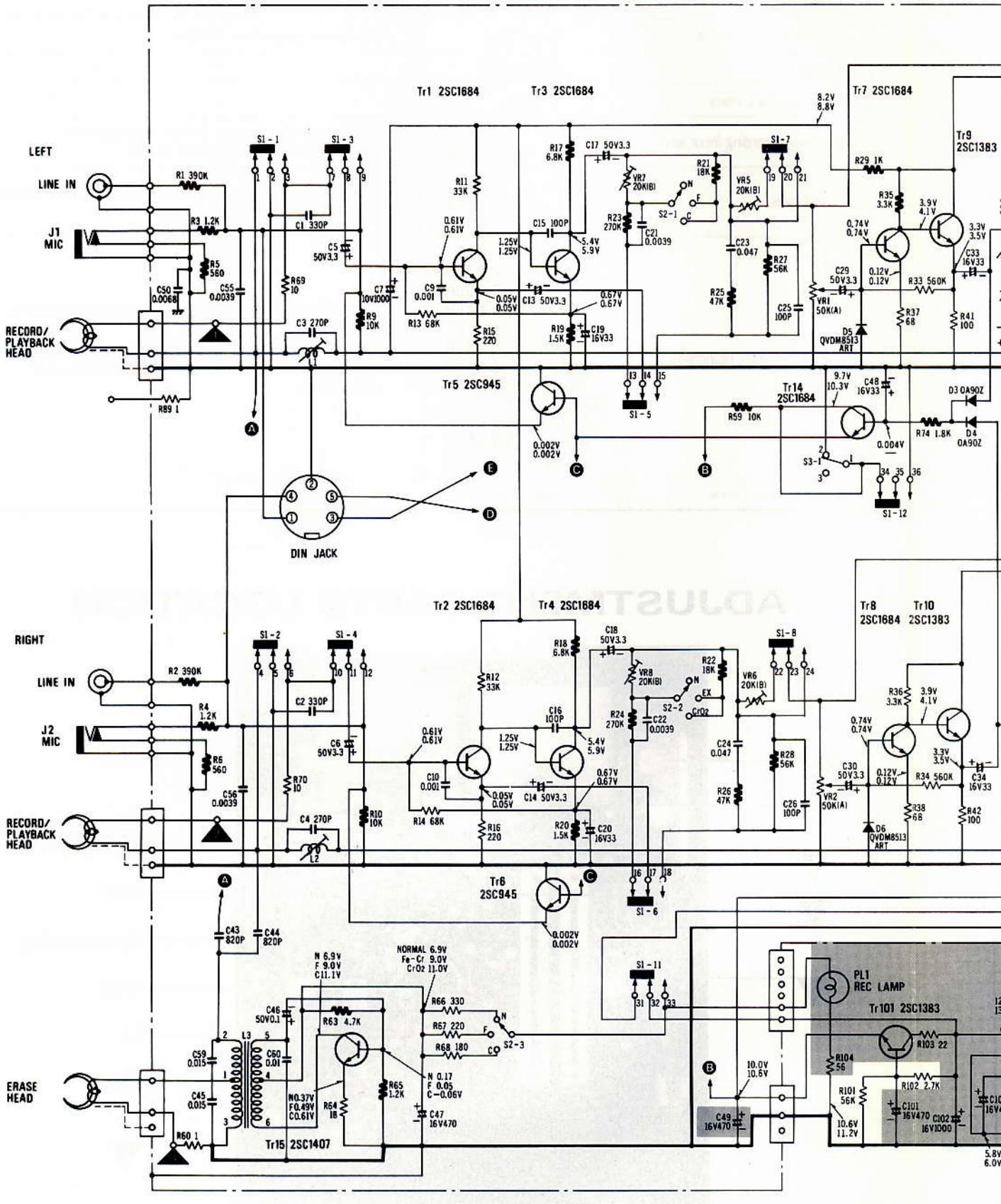
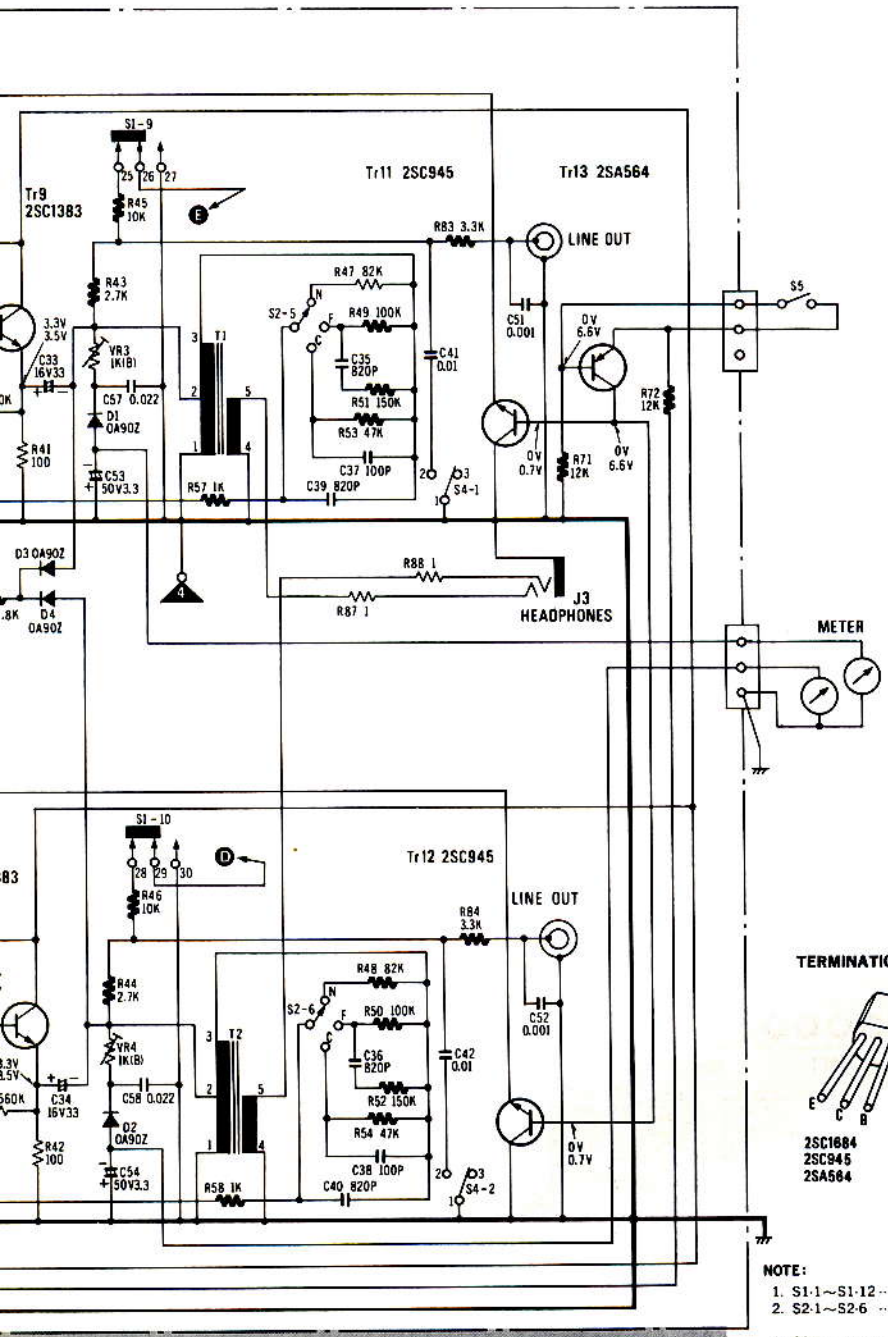


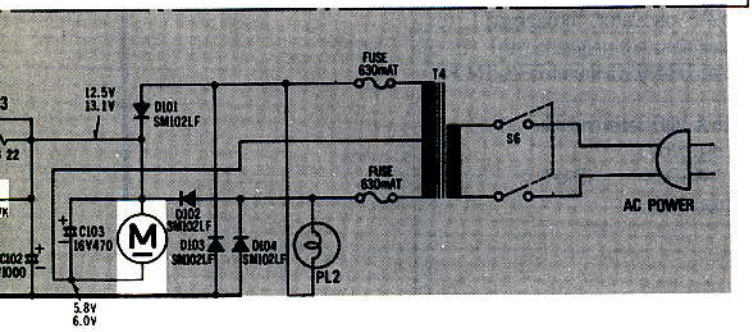
Fig. 12

SCHEMATIC DIAGRAM MODEL RS-600US for United K

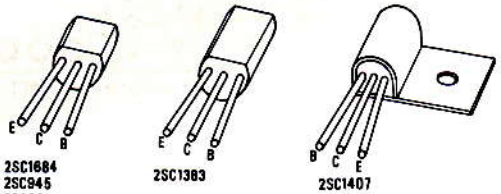


ed Kingdom





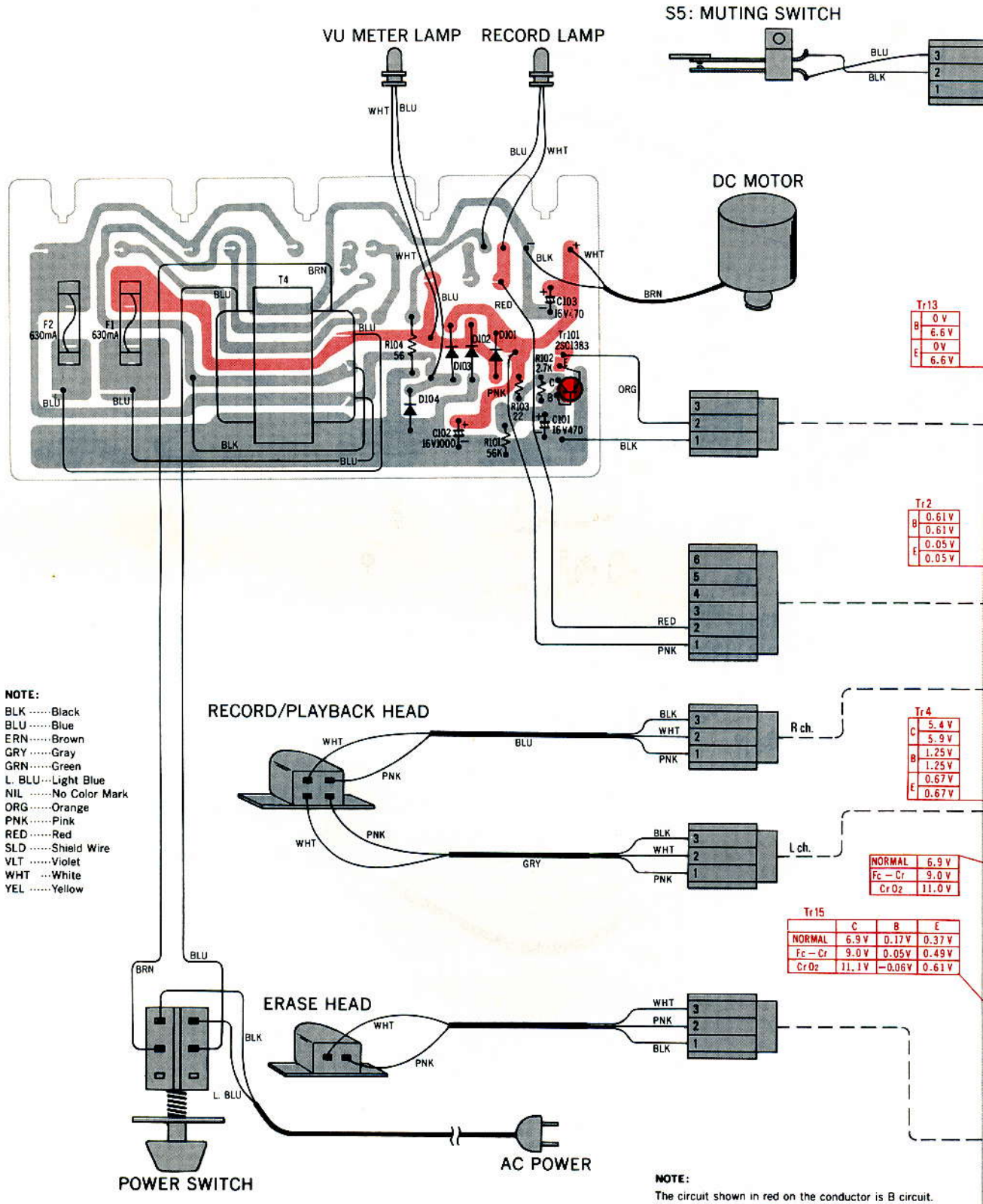
TERMINATIONS (BOTTOM VIEW)



NOTE:

1. S1-1～S1-12 ····· Record/playback select switch (shown in playback position).
2. S2-1～S2-6 ····· Tape selector switch (shown in "N" position).
   N···Normal, F··· Fe-Cr, C···CrO_2
3. S3-1 ····· Limiter switch (shown in "OFF" position).
4. S4-1, S4-2 ····· Noise filter switch (shown in "OFF" position).
5. S5 ····· Muting switch (shown in "OFF" position).
6. S6 ····· Power ON/OFF switch.
7. VR1, 2 ····· Volume control (record/playback).
8. VR3, 4 ····· Level meter adjustment VR.
9. VR5, 6 ····· Playback gain adjustment VR.
10. VR7, 8 ····· Playback equipment adjustment VR.
11. L1, 2 ····· Bias current adjustment coil.
12. PL1 ····· Recording indication lamp.
13. PL2, 3 ····· Level meter indication lamp.
14. Resistor values are in ohms (Ω), 1/4 watt unless specified otherwise.
    K=1,000Ω.
    Resistors indicated thickly show printed type resistor.
15. Capacitor values are in microfarads (μF) unless specified otherwise.
    P=Pico-farads.
16. The mark (▼) shows test point. e.g. ▼=Test point 1.
17. All measurements are under no signal conditions with volume at minimum position.
    Use VTVM for voltage measurement.
    The upper values should be measured during recording and the lower values during playback.
18. For parts which are shaded ( ), only parts specified by the manufacturer should be used for replacement in critical circuit.

WIRING CONNECTION DIAGRAM MODEL RS-6



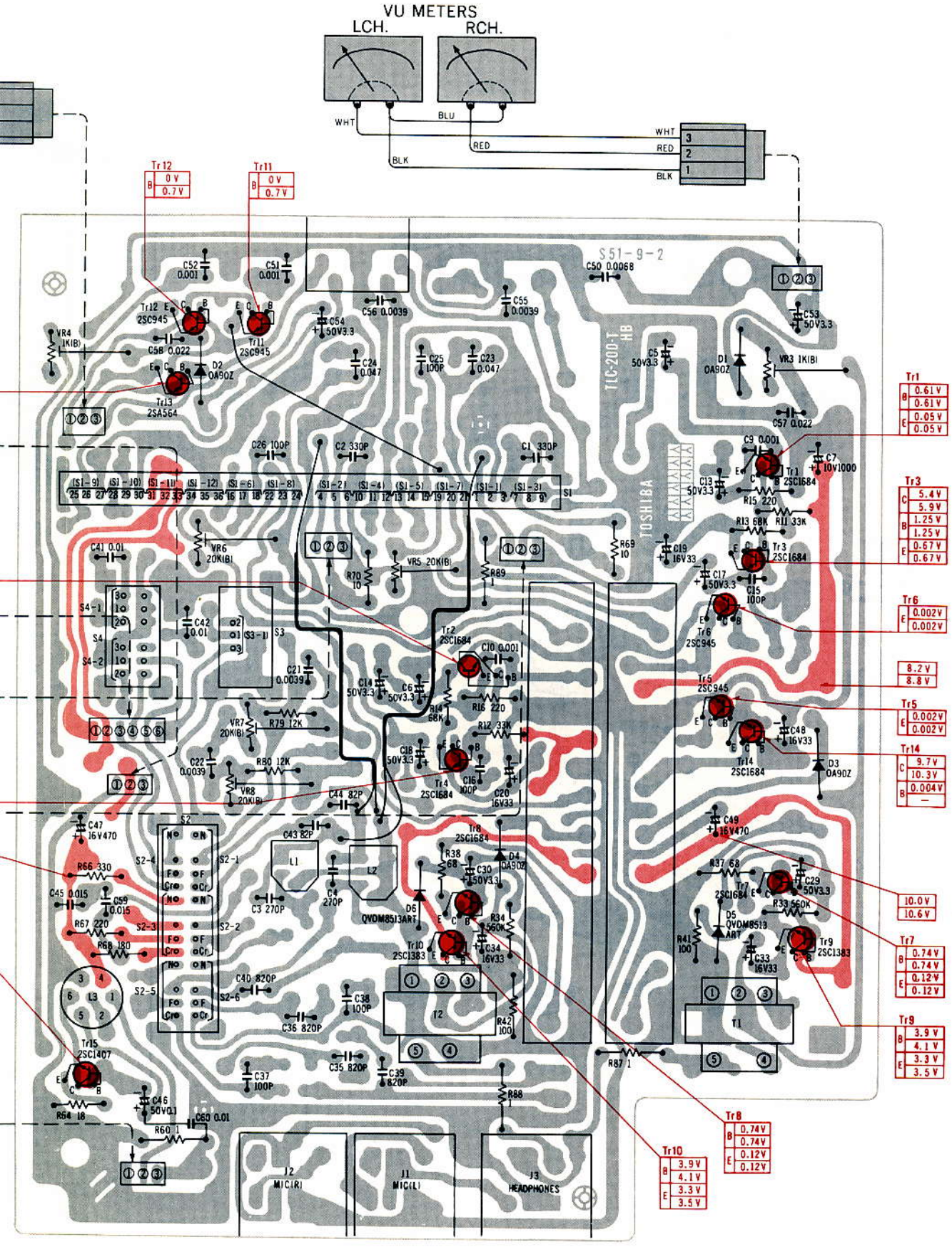
NOTE:

BLK ·····Black
BLU ·····Blue
BRN·····Brown
GRY·····Gray
GRN·····Green
L. BLU···Light Blue
NIL ·····No Color Mark
ORG·····Orange
PNK·····Pink
RED·····Red
SLD·····Shield Wire
VLT·····Violet
WHT ···White
YEL·····Yellow

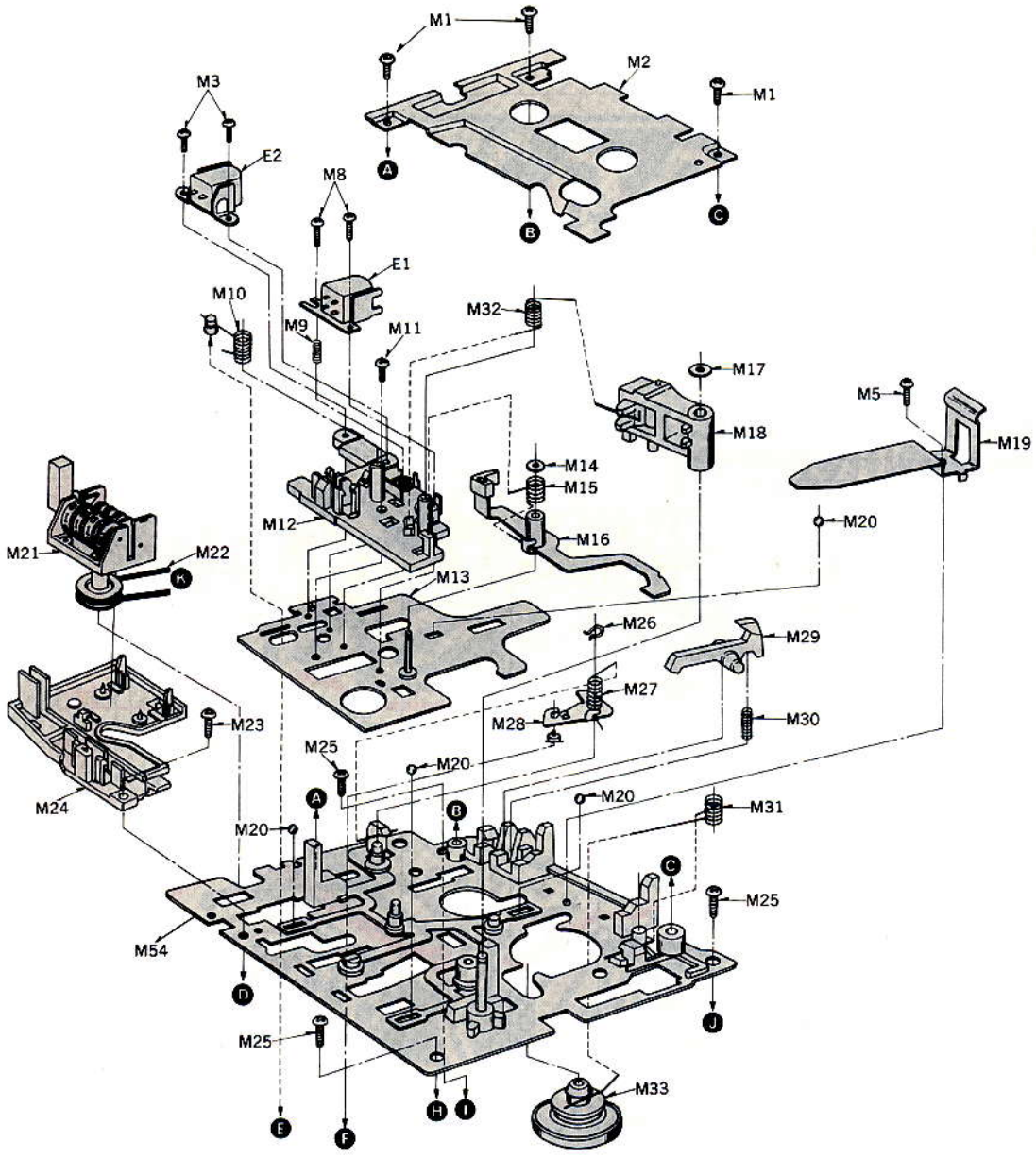
NOTE:

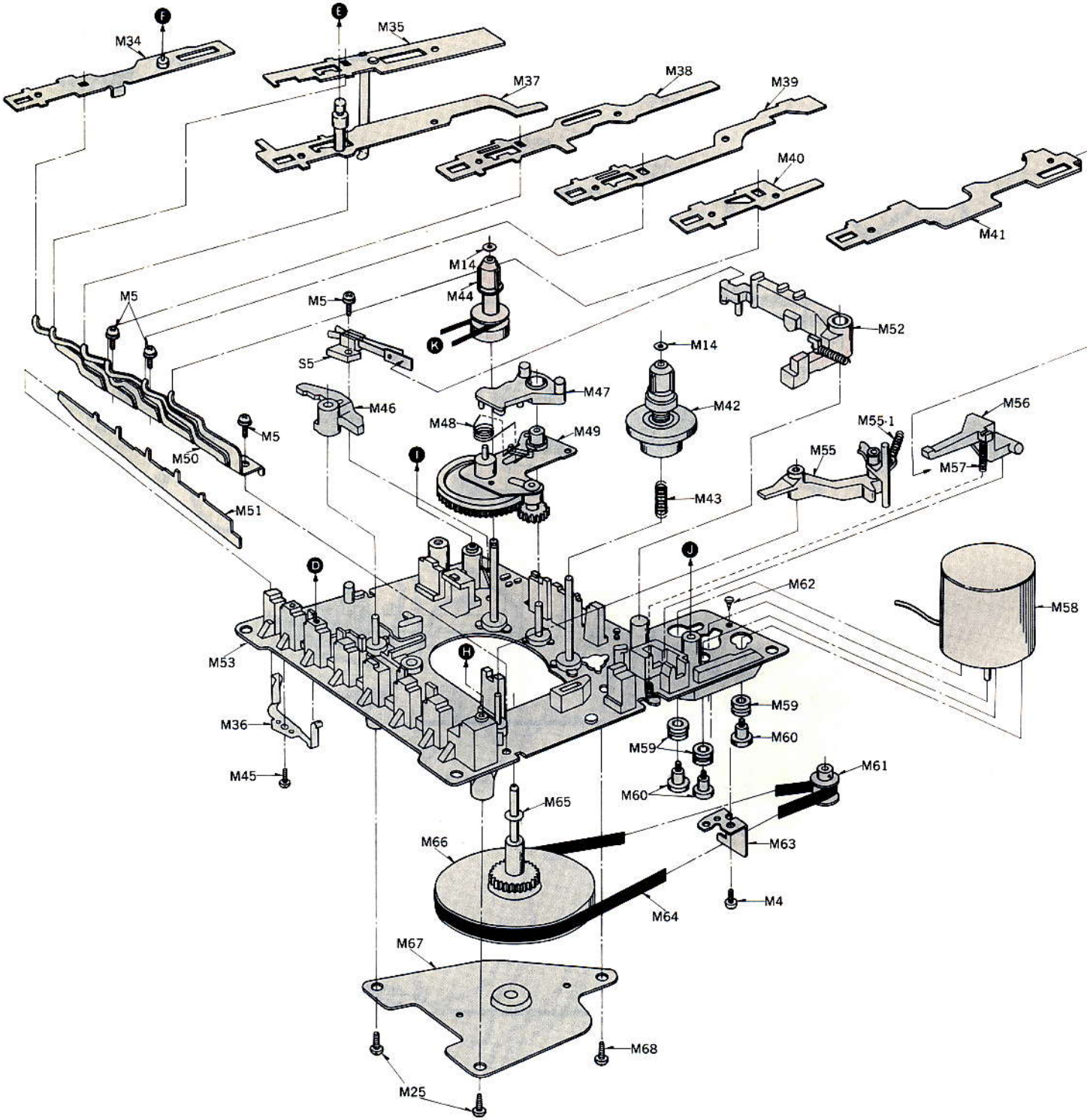
The circuit shown in red on the conductor is B circuit.
Values indicated in ▭ are DC voltage between the chassis and electrical parts.
The upper values should be measured during recording and the lower values during playback.

-600US for United Kingdom

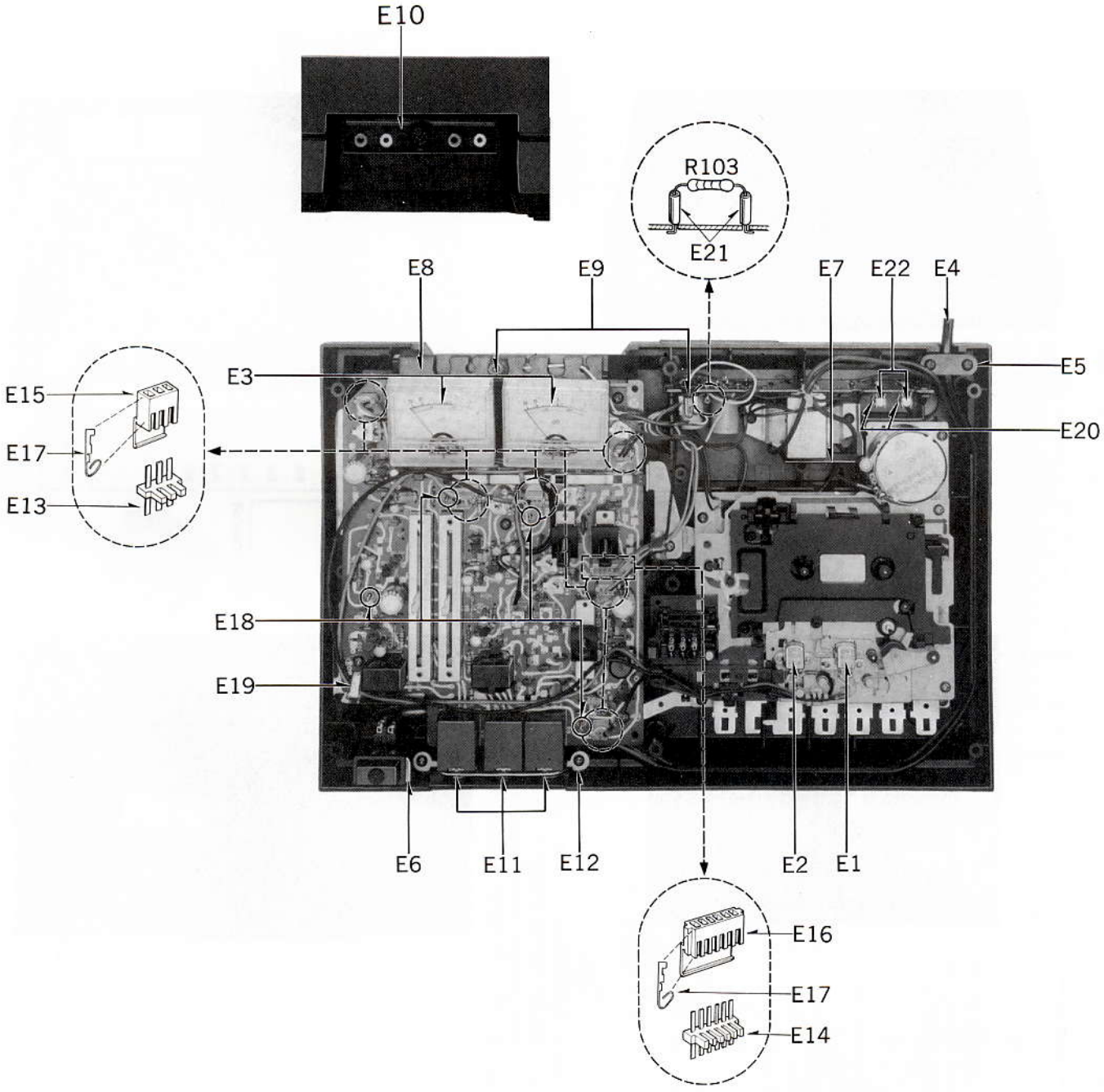


EXPLODED VIEWS

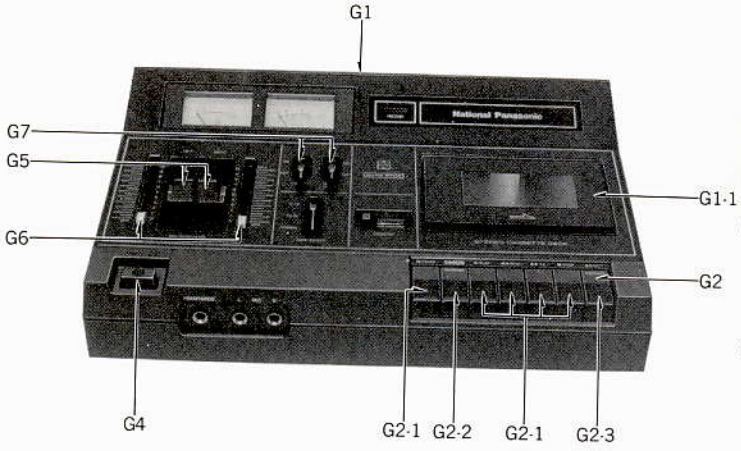


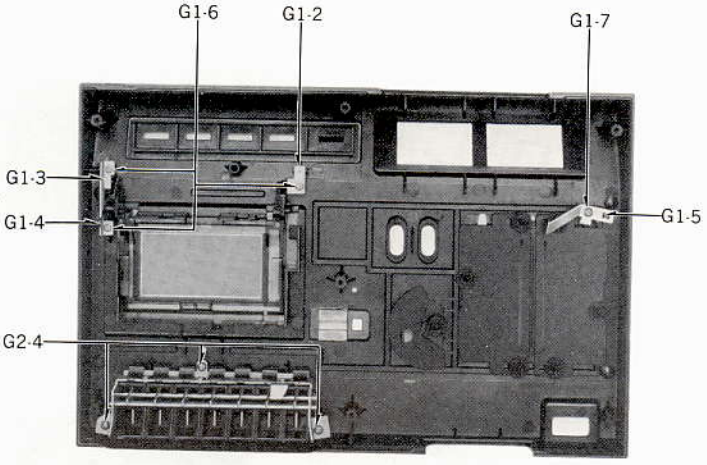

M34
M35
M37
M38
M39
M40
M41
M14
M44
M5
S5
M46
M47
M48
M49
M42
M43
M52
M55-1
M55
M56
M57
M58
M5
M50
M51
M53
M36
M45
M62
M59
M60
M61
M63
M4
M64
M65
M66
M67
M68
M25

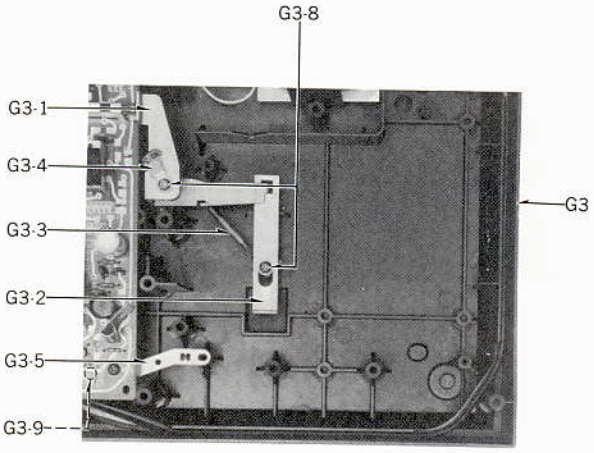
ELECTRICAL PARTS LOCATION

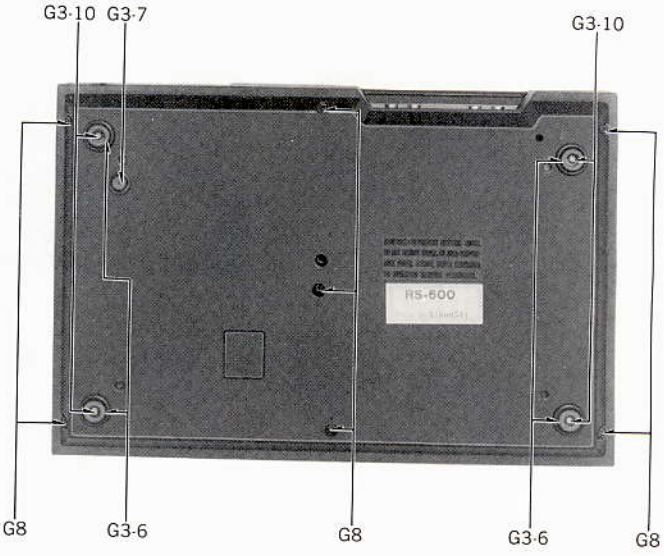


CABINET PARTS









Printed in Japan

REPLACEMENT PARTS LIST

MODEL RS-600US for United Kingdom

National Panasonic

RS-600US

NOTE:

1. Be sure to make your orders of replacement parts according to this list.
2. "Ⓝ" in "Remarks" column indicates new parts.
3. For parts which are shaded (▒▒), only parts specified by the manufacturer should be used for replacement in critical circuit.

NOTA:

1. Habrá que asegurarse que los pedidos de piezas de repuesto se hagan según esta lista.
2. "Ⓝ" marcado en la columna "Remarks", quiere decir que las piezas son nuevas.
3. Para las partes de la lista que están sombreadas (▒▒), deben ser usadas para hacer el reemplazo en los circuitos críticos solamente las partes que están especificadas por el productor.

NOTE:

1. Bien s'assutet de se conformer à la liste suivante pour les commandes de pièces de rechange.
2. "Ⓝ", dans la colonne "Remarks", indique les pièces nouvelles.
3. Concernant les pièces dans les parties hachurées (▒▒), doivent être remplacées dans les circuits critiques uniquement par des pièces spécifiées par le fabricant.

HIENWEIS:

1. Bestellen Sie Ihre Ersatzteile genau nach dieser Liste.
2. "Ⓝ" in der "Remarks" Spalte bedeutet "neue Teile".
3. Für diejenigen Positionen in der Ersatzteil-Liste, die auf schraffiertem Untergrund (▒▒) gedruckt sind, dürfen nur vom Hersteller zugelassenene Fabrikate als Ersatzteile in den kritischen Schaltkreisen verwendet werden.

按：

1. 關於代用零件之訂購，務請依照此表而行之爲荷。
2. 「備考」(Remarks)一欄中之 "Ⓝ" 形符號標記表示該零件爲新出品。
3. 印有灰色 (▒▒) 的標號表示，祗有那些由製造公司所指定及證明的零件，才能用來代換。

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		MECHANICAL PARTS		
M1	XTN26+6BFV	Screw ⊕2.6×6	3	COMMON
M2	QYR0158	Chassis Cover	1	RQ-546FLSD
M3	XSN2+6	Screw ⊕2×6	2	COMMON
M4	XTN26+5B	Screw ⊕2.6×5	1	〃
M5	XTN26+6B	Screw ⊕2.6×6	5	〃
M8	XSN2+8	Screw ⊕2×8	2	〃
M9	QBC1278A	Head Spring	1	RQ-546FLSD
M10	QBN1481A	Play Spring	1	〃
M11	XSN26+6	Screw ⊕2.6×6	1	COMMON
M12	QMZ1186	Head Spacer	1	Ⓝ
M13	QXK1681B	Head Base Plate	1	RQ-546FLSD
M14	QBW2008	Poly Washer 2φ	3	〃
M15	QBN1478A	Auto-Stop Detector Spring	1	〃
M16	QXL0982	Auto-Stop Detect Lever	1	〃
M17	QBW2046	Poly Washer 3φ	1	〃
M18	QXL0979B	Pressure Roller Assembly	1	〃
M19	QBP1659A	Head Plate Pressure Plate	1	〃
M20	QDK1017	Steel Ball 2φ	4	〃
M21	QDC0084	Tape Counter	1	〃
M22	QDB0220	Counter Belt	1	〃
M23	XTN3+12B	Screw ⊕3×12	1	COMMON
M24	QMZ1185B	Counter Table	1	Ⓝ
M25	XTN3+10B	Screw ⊕3×10	5	COMMON
M26	XUB4FT	Circlip 4φ	1	RQ-546FLSD
M27	QBN1480A	Pause Lock Spring	1	〃
M28	QML2898A	Pause Lock Plate	1	〃
M29	QML2900C	Erase Safety Lever	1	〃
M30	QBC1193A	Erase Safety Lever Spring	1	〃
M31	QBN1479	Idler Spring	1	〃
M32	QBN1488	Pressure Roller Spring	1	〃
M33	QXI0088A	Idler Lever Assembly	1	〃
M34	QXR0163	Pause Rod Assembly	1	Ⓝ
M35	QXR0289	Record Rod Assembly	1	Ⓝ

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
M36	QBP1662A	Lock Rod Spring	1	RQ-546FLSD
M37	QXR0304	Playback Rod	1	ⓝ
M38	QMR1478B	Rewind Rod	1	ⓝ
M39	QMR1477A	Fast Forward Rod	1	ⓝ
M40	QMR1476B	Stop Rod	1	ⓝ
M41	QMR1475	Eject Rod	1	ⓝ
M42	QXD0054C	Takeup Reel Table	1	RQ-546FLSD
M43	QBC1279	Back Tension Spring	1	〃
M44	QDR1100B	Supply Reel Table	1	〃
M45	XTN26+6B	Screw ⊕2.6×6	1	COMMON
M46	QML2904B	Pause Lever	1	RQ-546FLSD
M47	QML2912C	Fast Forward Operation Lever	1	〃
M48	QBN1477A	Fast Forward Arm Spring	1	〃
M49	QXG1023B	Fast Forward Gear Arm Assembly	1	〃
M50	QBP1664B	Operation Rod Spring	1	〃
M51	QMR1473B	Lock Rod	1	〃
M52	QML3046	Switch Arm	1	ⓝ
M53	QXK1667	Lower Base Plate	1	RQ-546FLSD
M54	QXK1668A	Upper Base Plate	1	ⓝ
M55	QXL0980C	Auto-Stop Drive Lever Assembly	1	RQ-546FLSD
M55-1	QBT1489E	Auto-Stop Spring	1	〃
M56	QML2902	Eject Arm	1	〃
M57	QBT1773DM	Eject Arm Spring	1	〃
M58	MHI5R6CXPR	Motor	1	〃
M59	QBG1539	Motor Cushion	3	〃
M60	QHQ1223B	Motor Holding Screw	3	〃
M61	QXP0513A	Motor Pulley Assembly	1	〃
M62	QBG1553A	Rubber Cushion	1	ⓝ
M63	QMA2676B	Belt Guide	1	RQ-546FLSD
M64	QDB0219	Flywheel Belt	1	〃
M65	QBW2049A	Poly Washer	1	〃
M66	QXF0113D	Flywheel Assembly	1	〃
M67	QXH0218B	Flywheel Retainer Assembly	1	〃
M68	XTN3+15B	Screw ⊕3×15	1	COMMON

RS-600US

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		RESISTORS		
R11, 12	ERD25TJ333	Carbon Resistor 33KΩ 1/4W	2	
R13, 14	ERD25TJ683	〃 68KΩ 1/4W	2	
R15, 16	ERD25TJ221	〃 220Ω 1/4W	2	
R33, 34	ERD25TJ564	〃 560KΩ 1/4W	2	
R37, 38	ERD25TJ680	〃 68Ω 1/4W	2	
R41, 42	ERD25TJ101	〃 100Ω 1/4W	2	
R60	ERD25TJ1R0	〃 1Ω 1/4W	1	
R64	ERD25TJ180	〃 18Ω 1/4W	1	
R66	ERD25TJ331	〃 330Ω 1/4W	1	
R67	ERD25TJ271	〃 270Ω 1/4W	1	
R68	ERD25TJ181	〃 180Ω 1/4W	1	
R69, 70	ERD25TJ100	〃 10Ω 1/4W	2	
R87, 88, 89	ERD25TJ1R0	〃 1Ω 1/4W	3	R89 is USED for shield plate.
R101	ERD25TJ563	〃 56KΩ 1/4W	1	
R102	ERD25TJ272	〃 2.7KΩ 1/4W	1	
R103	ERD25TJ220	〃 22Ω 1/4W	1	
R104	ERD25TJ560	〃 56Ω 1/4W	1	
		VARIABLE RESISTORS		
VR1, 2	EVAB02C30A54	Variable Resistor 50KΩ (A)	2	
VR3, 4	EVLS3AA00B13	Semi-fixed Variable Resistor 1KΩ (B)	2	
VR5, 6, 7, 8	EVLS3AA00B24	〃 20KΩ (B)	4	
		CAPACITORS		
C1, 2	ECCD1H331K	Ceramic Capacitor 330pF	2	
C3, 4	ECCD1H271K	〃 270pF	2	
C5, 6	ECEA50V3R3	Electrolytic Capacitor 3.3μF	2	
C7	ECEA10V1000	〃 1000μF	1	
C9, 10	ECKD1H102PF	Ceramic Capacitor 0.001μF	1	
C13, 14	ECEA50V3R3	Electrolytic Capacitor 3.3μF	2	
C15, 16	ECCD1H101K	Ceramic Capacitor 100pF	2	
C17, 18	ECEA50V3R3	Electrolytic Capacitor 3.3μF	2	
C19, 20	ECEA16V33	〃 33μF	2	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
C21, 22	ECQM05392KZ	Mylar Capacitor 0.0039μF	2	
C23, 24	ECQM05473MZ	〃 0.047μF	2	
C25, 26	ECCD1H101K	Ceramic Capacitor 100pF	2	
C29, 30	ECEA50V3R3	Electrolytic Capacitor 3.3μF	2	
C33, 34	ECEA16V33	〃 33μF	2	
C35, 36	ECKD1H821KB	Ceramic Capacitor 820pF	2	
C37, 38	ECCD1H101K	〃 100pF	2	
C39, 40	ECKD1H821KB	〃 820pF	2	
C41, 42	ECKD1H103MD	〃 0.01μF	2	
C43, 44	ECCD1H820KC	〃 82pF	2	
C45	ECQM05123MZ	Mylar Capacitor 0.012μF	1	
C46	ECEA50ZR1	Electrolytic Capacitor 0.1μF	1	
C47	ECEA16V470	〃 470μF	1	
C48	ECEA16V33	〃 33μF	1	
C49	ECEA16V470	〃 470μF	1	
C50	ECKD1H682MD	Ceramic Capacitor 0.0068μF	1	
C51, 52	ECKD1H102MD	〃 0.001μF	2	
C53, 54	ECEA50V3R3	Electrolytic Capacitor 3.3μF	2	
C55, 56	ECQM05392KZ	Mylar Capacitor 0.0039μF	2	
C57, 58	ECQM05223MZ	〃 0.022μF	2	
C59	ECQM05153MZ	〃 0.015μF	1	
C101	ECEA16V470	Electrolytic Capacitor 470μF	1	
C102	ECEA16V1000	〃 1000μF	1	
C103	ECEA16V470	〃 470μF	1	
		TRANSISTORS		
Tr1, 2, 3, 4	2SC1684	Transistor	4	
Tr5, 6	2SC945	〃	2	
Tr7, 8	2SC1684	〃	2	
Tr9, 10	2SC1383	〃	2	
Tr11, 12	2SC945	〃	2	
Tr13	2SA564	〃	1	
Tr14	2SC1684	〃	1	
Tr15	2SC1383	〃	1	
Tr101	2SC1383	〃	1	

RS-600US

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
		DIODES		
D1, 2, 3, 4	OA90Z	Diode	4	COMMON
D5, 6	QVDM8513ART	〃	2	RQ-546FLSD
D101, 102, 103, 104				
	SM102LF	〃	4	●
		TRANSFORMERS		
T1, 2	QLT2F23	Recording Transformer	2	
T4	QLPD31AJC	Power Transformer	1	
		COILS		
L1, 2	QLQM1531	Bias Trap Coil	2	
L3	QLB0155	Oscillator Coil	1	RQ-421SD
		SWITCHES		
S1	QSSC204T	Slide Switch (Record/Playback Selector)	1	
S2	QST6310H	Lever Switch (Tape Selector)	1	
S3	QST2217H	Lever Switch (Limiter)	1	
S4	QST4212H	Lever Switch (Noise Filter)	1	
S5	QSB0178IB	Leaf Switch	1	RQ-546FLSD
S6	ESB7016	Push Switch (Power ON/OFF)	1	
		LAMPS		
PL1	XAMQ23P400N	Lamp (Record)	1	
PL2	XAMQ23P400N	Lamp (VU Meter)	1	
		JACKS		
J1, 2	QJA0250H	Microphone Jack	2	
J3	QJA0249H	Headphone Jack	1	
		ELECTRICAL PARTS		
E1	QWY4113Z	Record/Playback Head	1	
E2	QWY2222Z	Erase Head	1	RS-260US
E3	QSL1081RNM	VU Meter	2	

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
E4	QFC1205M	Power Cord	1	
E5	QTD1164	Power Cord Bushing	2	
E6	QMA3041	Power Switch Angle	1	
E7	QTS1410	Power Transformer Shield Plate	1	
E8	QKJ0179	VU Meter Holder	1	
E9	QBG1366A	Lamp Rubber Bushing	2	
E10	QEJ5009H	Pin Jack Plate Assembly	1	
E11	QNQ1070	Nut 10φ for Microphone, Headphone Jack	3	
E12	QMA3043	Microphone Jack Angle	1	
E13	QJP1908JO	3 Pin Post	6	
E14	QJP1902JO	6 Pin Post	1	
E15	QJS0778JN	3 Pin Housing	6	
E16	QJS0784JN	6 Pin Housing	1	
E17	QJT1042	Connector	21	RS-640USD
E18	QJT1041	Check Pin Terminal	6	
E19	QMF1893	Lug	1	
E20	QTF1054	Fuse Holder	4	
E21	QZE0003	Porcelain Tube	2	
E22	XBA2C06TR0	Mini Fuse (630mAT)	2	
		CABINET PARTS		
G1	QYP0657	Front Panel Assembly	1	
G1-1	QYF0279	Cassette Lid	1	
G1-2	QKJ0113A	Cassette Lid Holder	1	RQ-546FLSD
G1-3	QMA3046	Cassette Lid Spring Angle	1	
G1-4	QBN8003	Cassette Lid Spring	1	
G1-5	QBP1746	Earth Plate Spring	1	
G1-6	XTN3+10B	Screw ⊕3×10	3	
G1-7	XTN3+8B	Screw ⊕3×8	1	
G2	QXB0453A	Push Button Assembly	1	
G2-1	QXB0475	Push Button (Playback, Fast Forward, Rewind, Stop, Pause)	5	
G2-2	QXB0476	Push Button (Record)	1	
G2-3	QXB0477	Push Button (Eject)	1	
G2-4	XTN3+10B	Screw ⊕3×10	3	
G3	QYM0408	Bottom Case Assembly	1	

RS-600US

Ref. No.	Part No.	Part Name & Description	Pcs/ Set	Remarks
G3-1	QMA3039	Record Lever	1	
G3-2	QMA3040	Record Lever Connection Plate	1	
G3-3	QBT1569M	Spring	1	
G3-4	QTD1002	Lug	1	
G3-5	QTS1395	Earth Terminal Plate	1	
G3-6	QKA1050A	Foot	4	RS-263AUSD
G3-7	QKJ0177	Hole Cap	1	
G3-8	XTW3+10B	Screw ⊕3×10	2	
G3-9	XTN3+8B	Screw ⊕3×8	1	
G3-10	XTN3+12B	Screw ⊕3×12	4	
G4	QGO1331	Power Button	1	
G5	QGT1356	Volume Knob	2	
G6	QGT1355	Marker Knob	2	
G7	QBH2023	Switch Shelter	7	
G8	XTN35+50BFV	Screw ⊕3.5×50	7	
		ACCESSORIES		
A1	RP023A	Connection Cord	1	
A2	QQT2059	Instruction Book	1	
		PACKINGS		
P1	QPN3507	Inside Carton	1	
P2	QPA0268	Cushion-A	1	
P3	QPA0269	Cushion-B	1	
P4	XZB36X50A05	Poly Bag	1	
P5	QPA0285	Spacer	1	
P6	QPA0290	Spacer-A	1	

Printed in Japan.