

Service Manual

Cassette Deck

RS-T55R

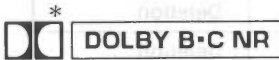
dbx^{**}/Dolby B-C NR, Auto-Reverse
Double Cassette Deck

Supplement

Color

(K)...Black Type
(S)...Silver Type

Color	Areas
(K)	[M]U.S.A.
(K) (S)	[MC]....Canada.
(K) (S)	[E]All European areas except United Kingdom.
(K) (S)	[EK]....United Kingdom.
(K) (S)	[EG]....F.R. Germany.
(K) (S)	[EH]....Holland.
(K) (S)	[XA]....Asia, Latin America, Middle Near East and Africa.
(K) (S)	[XL]Australia.
(K) (S)	[XB]....Saudi Arabia.
(K)	[PA]....Far East PX.
(K)	[PE]....European Military.

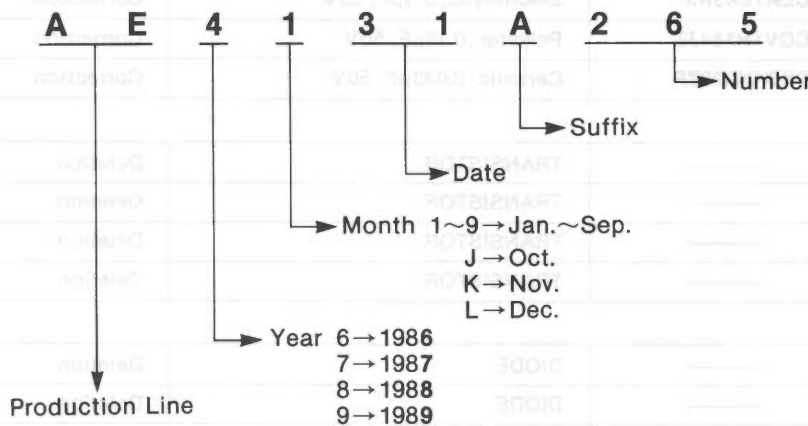


Please file and use this supplement manual together with the service manual for Model No. RS-T55R, Order No. HAD8705141C0.

Note:

This supplement has been issued to inform you that the Microcomputer (Ref. No. IC901) has been changed in units having serial number suffixes "C" or later. (Refer to "How to read the serial number" shown below).

● **How to read the serial number**



* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

** The term dbx is a registered trademark of dbx Inc.

Technics

Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094

Panasonic Sales Company,
Division of Matsushita Electric
of Puerto Rico, Inc.
Ave. 65 De Infanteria, Km.9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

Panasonic Hawaii, Inc.
91-238, Kauhī St. Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774

**Matsushita Electric
of Canada Limited**
5770 Ambler Drive, Mississauga,
Ontario, L4W 2T3

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

Panasonic Tokyo Office
Matsushita Electric Trading Co., Ltd.
6th Floor, world Trade Center Bldg.,
No. 4-1, Hamamatsu-cho 2-Chome,
Minato-ku, Tokyo 105, Japan

CHANGES

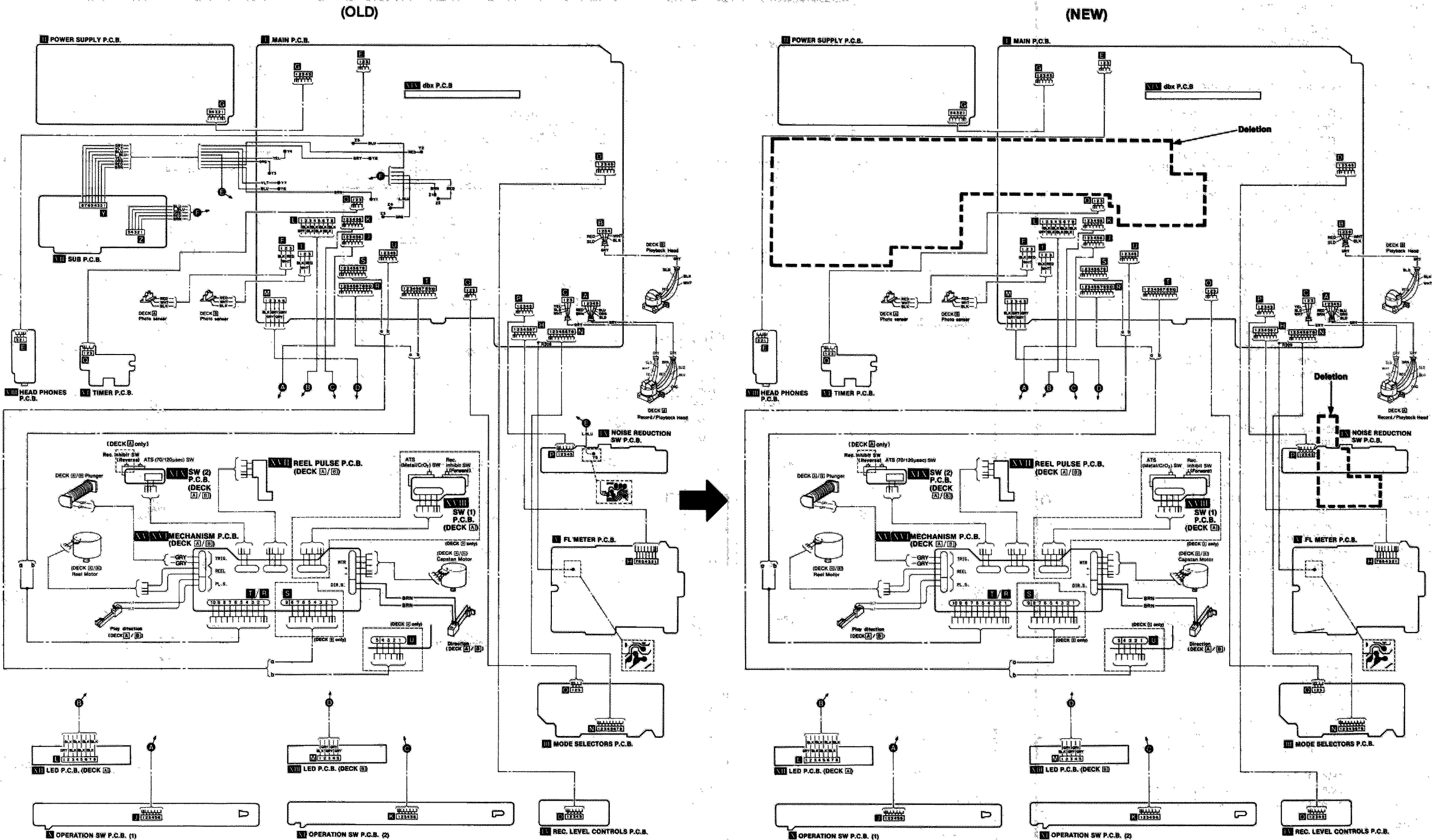
REPLACEMENT PARTS LIST

- Notes:**
- Part numbers are indicated on most electrical parts. Please use this part number for parts order.
 - Important safety notice:
Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

Ref. No.	Change of Parts No.		Part Name & Description	Remarks
	OLD	NEW		
RESISTORS				
R970	ERDS2TJ103	————	Carbon, 10k Ω , 1/4W	Deletion
R971	ERDS2TJ272	————	Carbon, 2.7k Ω , 1/4W	Deletion
R972	ERDS2TJ223	————	Carbon, 22k Ω , 1/4W	Deletion
R982	ERDS2TJ473	————	Carbon, 47k Ω , 1/4W	Deletion
R983	ERDS2TJ223	————	Carbon, 22k Ω , 1/4W	Deletion
R984, R985	ERDS2TJ472	————	Carbon, 4.7k Ω , 1/4W	Deletion
R990	ERDS2TJ223	————	Carbon, 22k Ω , 1/4W	Deletion
R991	ERDS2TJ103	————	Carbon, 10k Ω , 1/4W	Deletion
R992	ERDS2TJ272	————	Carbon, 2.7k Ω , 1/4W	Deletion
R993	ERDS2TJ101	————	Carbon, 100 Ω , 1/4W	Deletion
CAPACITORS				
C970	ECEA1AU101	————	Electrolytic, 100 μ F, 10V	Deletion
C972	ECEA1AK220	————	Electrolytic, 22 μ F, 10V	Deletion
C973	ECKD1H103PF	————	Ceramic, 0.01 μ F, 50V	Deletion
C974	ECEA1CU101	————	Electrolytic, 100 μ F, 16V	Deletion
C507, C508	ECEA1CKS100	ECEA1HK1R5	Electrolytic, 1.5 μ F, 50V	Correction
C511, C512	ECEA1HK010	ECEA1EK3R3	Electrolytic, 3.3 μ F, 25V	Correction
C523, C524	ECQV1H124JZ	ECQV1H184JZ	Polyster, 0.18 μ F, 50V	Correction
C915	ECKD1H223PF [EG]	ECKD1H333ZF	Ceramic, 0.033 μ F, 50V	Correction
TRANSISTORS				
Q970, Q971	2SC3311A-Q	————	TRANSISTOR	Deletion
Q972	UN4111	————	TRANSISTOR	Deletion
Q979	2SC3311A-Q	————	TRANSISTOR	Deletion
Q980, Q981	UN4211	————	TRANSISTOR	Deletion
DIODES				
D970, D971	MA165	————	DIODE	Deletion
D975, D979	MA165	————	DIODE	Deletion
D980, D981	MA165	————	DIODE	Deletion
D982, D983	MA165	————	DIODE	Deletion
D984, D985	MA165	————	DIODE	Deletion
D986, D990	MA165	————	DIODE	Deletion
D992, D993	MA165	————	DIODE	Deletion
D997, D999	MA165	————	DIODE	Deletion
D999	MA165	————	DIODE	Deletion

Change of Ref. No.		Parts No.	Part Name & Description	Remarks
OLD	NEW			
RESISTORS				
R610	R610 [M, MC, E, EG] [EH, XA, XB, PA, PE]	ERDS1FJ470	Carbon, 47Ω, 1/2W	Correction
R611	R611 [M, MC, E, EG] [EH, XA, XB, PA, PE]	ERDS1FJ470	Carbon, 47Ω, 1/2W	Correction
R615	△ R615 △ [M, MC, E, EG] [EH, XA, XB, PA, PE]	ERDS1FJ2R2	Carbon, 2.2Ω, 1/2W	Correction
R616	R616 [M, MC, E, EG] [EH, XA, XB, PA, PE]	ERDS1FJ4R7	Carbon, 4.7Ω, 1/2W	Correction
CAPACITORS				
C81, C82	C81, C82 [EG]	ECBT1H102KB5	Ceramic, 1000pF, 50V	Correction
C83	C83 [EG]	ECKD1H223PF	Ceramic, 0.022μF, 50V	Correction
INTEGRATED CIRCUIT				
IC401	IC901	LC8554H-3426	INTEGRATED CIRCUIT	Correction
TRANSISTOR				
Q407	Q907	2SC3311A-Q	TRANSISTOR	Correction
I.C. PROTECTORS				
ICP603	ICP603 [EK, XL]	SRUN10	I.C. PROTECTOR	Correction
ICP601, ICP602	ICP601, ICP602 [EK, XL]	SRUN15	I.C. PROTECTOR	Correction
TRANSFORMER				
T601 [XA, XB, PA]	△ T601 △ [XA, XB, PA, PE]	SLT5V21	POWER TRANSFORMER	Correction
SWITCH				
S602 [XA, XB, PA]	△ S602 △ [XA, XB, PA, PE]	SSR187-1	SW, VOLTAGE SELECT	Correction

WIRING CONNECTION DIAGRAM



SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

* This schematic diagram applies to units having serial number suffixes "C" or later.

Notes:

- S601: Power switch in "on" position.
- S602: Voltage selector in "240 V" position (XA, XB, PA, PE areas).
- S701: DECK [A] Rew./F.F. switch in "off" position.
- S702: DECK [B] Rew./F.F. switch in "off" position.
- S703: DECK [A] F.F./Rev. switch in "off" position.
- S704: DECK [B] F.F./Rev. switch in "off" position.
- S705: DECK [A] Play (REV) switch in "off" position.
- S706: DECK [B] Play (REV) switch in "off" position.
- S707: DECK [A] Play (FWD) switch in "off" position.
- S708: DECK [B] Play (FWD) switch in "off" position.
- S709: DECK [A] Stop switch in "off" position.
- S710: DECK [B] Stop switch in "off" position.
- S711: DECK [A] Pause switch in "off" position.
- S712: Syncro-recording-start switch in "off" position.
- S713: DECK [A] Auto rec. mute switch in "off" position.
- S715: DECK [A] Rec. switch in "off" position.
- S721: NR off switch in "off" position.
- S722: NR dbx switch in "off" position.
- S723: Dolby C NR switch in "off" position.
- S724: Dolby B NR switch in "off" position.
- S731: Editing-tape-speed selector in "off (X1)" position.
- S732: Edit-recording switch in "off" position.
- S741: Repeat (↺) switch in "off" position.
- S742: Reverse (↔) switch in "off" position.
- S743: One way (↔) switch in "off" position.
- S744: Series (⊞) switch in "off" position.
- S750: Timer stand-by switch in "off" position.
- S901: DECK [A] ATS (Metal/CrO₂) switch in "off" position.
- S902: DECK [A] ATS (70/120μs) switch in "off" position.
- S903: DECK [A] Rec. inhibit (REV) switch in "off" position.
- S904: DECK [A] Rec. inhibit (FWD) switch in "off" position.
- S905: DECK [A] Play detection switch in "off" position.
- S906: DECK [A] Direction switch in "off" position.
- S907: DECK [B] ATS (70/120μs) switch in "off" position.
- S908: DECK [B] Play detection switch in "off" position.
- S909: DECK [B] Direction switch in "off" position.

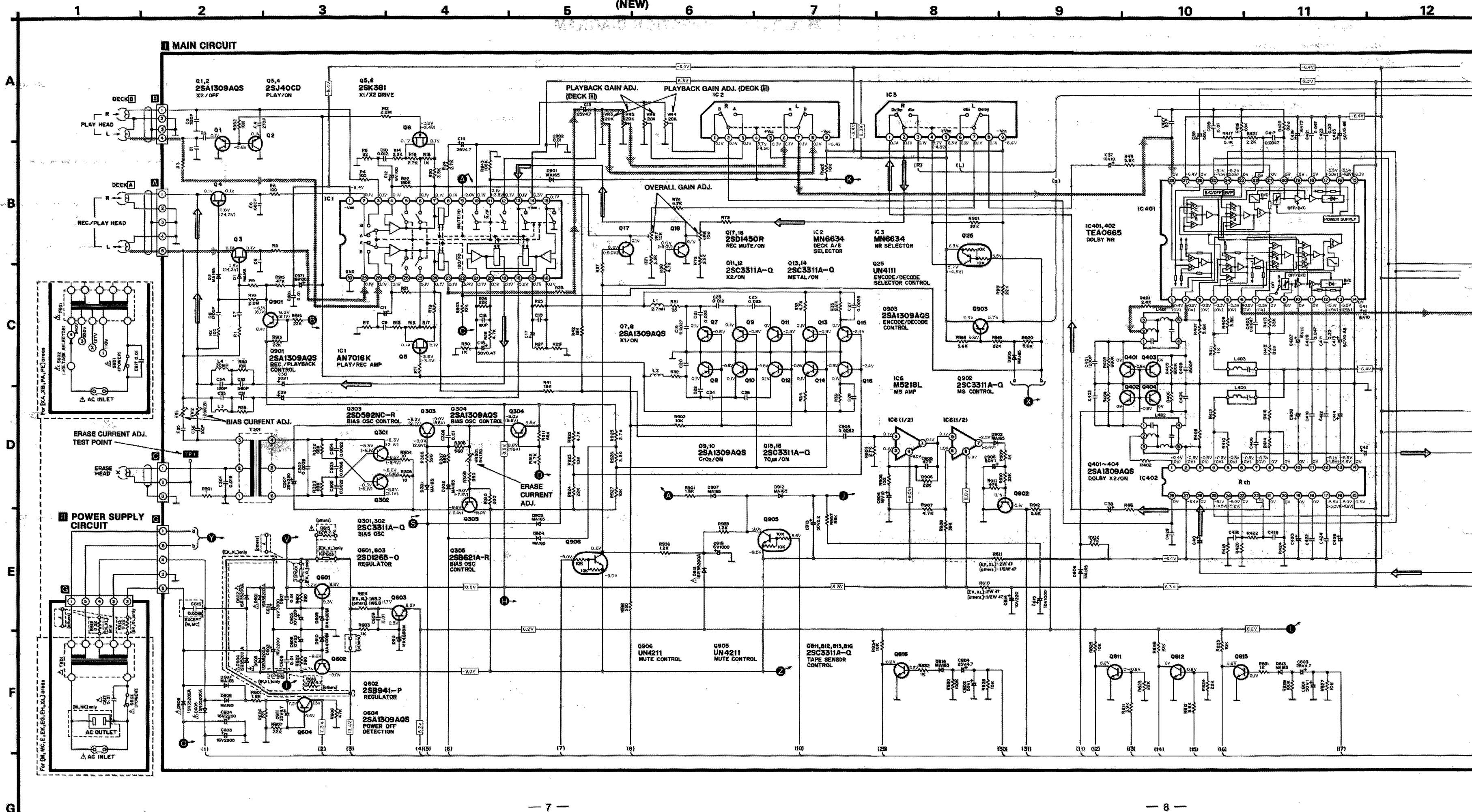
Resistance are in ohms (Ω), 1/4 watt unless specified otherwise.
 1K=1,000 (Ω), 1M=1,000k (Ω)
 Capacity are in micro-farads (μF) unless specified otherwise.
 All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.

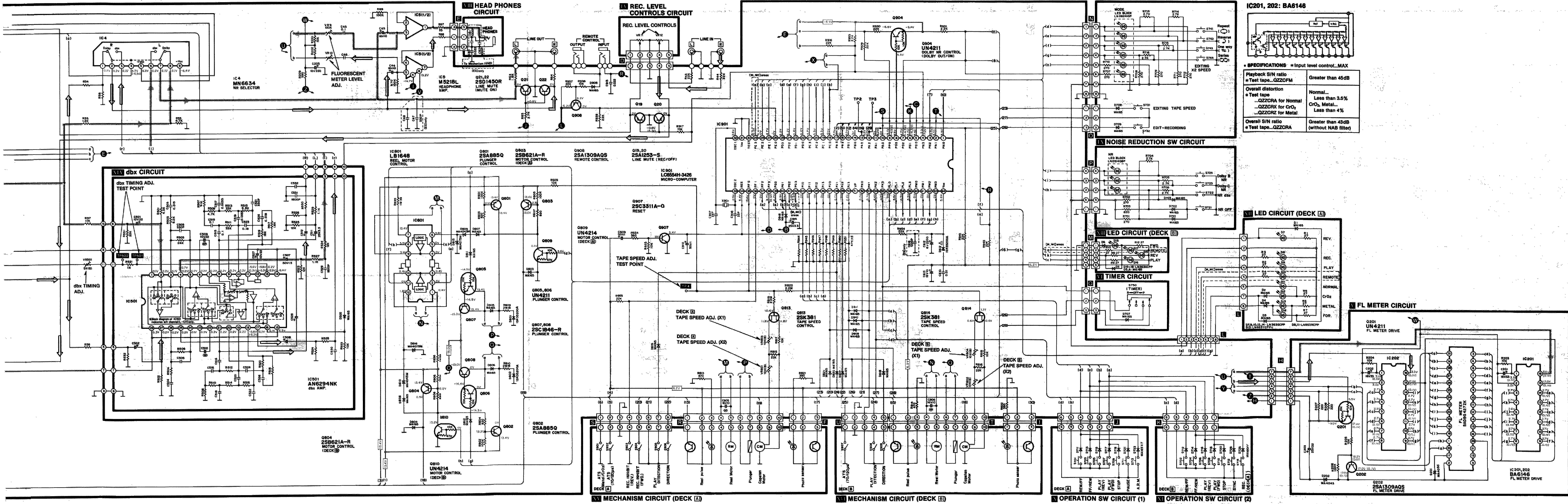
().....Voltage values at record mode.
 For measurement use EVM.
 Important safety notice
 Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

- (-) indicates B (bias).
- (→) indicates the flow of the playback signal.
- (⇨) indicates the flow of the record signal.

* Caution!

IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.
 * Cover the parts boxes made of plastics with aluminum foil.
 * Ground the soldering iron.
 * Put a conductive mat on the work table.
 * Do not touch the legs of IC or LSI with the fingers directly.





EQUIVALENT CIRCUIT
IC201, 202: BA6146

• SPECIFICATIONS	• Input level control...MAX
Playback S/N ratio	Greater than 45dB
• Test tape...QZZCFM	
Overall distortion	Normal... Less than 3.5%
• Test tape	...QZZCRX for CrO ₂ Less than 4%
	...QZZGRZ for Metal
Overall S/N ratio	Greater than 43dB (without NAB filter)
• Test tape...QZZCRA	

