

Service Manual

Dolby NR-Equipped
Stereo Double Cassette DeckCassette Deck
RS-TR155

Color

(K)... Black Type



Area

Country Code	Area	Color
(P)	U.S.A.	(K)
(PC)	Canada.	(K)



SPECIFICATIONS

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SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

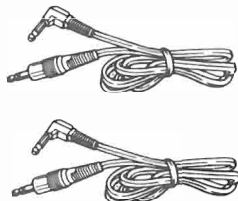
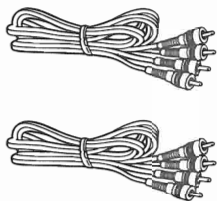
1. Before servicing

ACCESSORIES

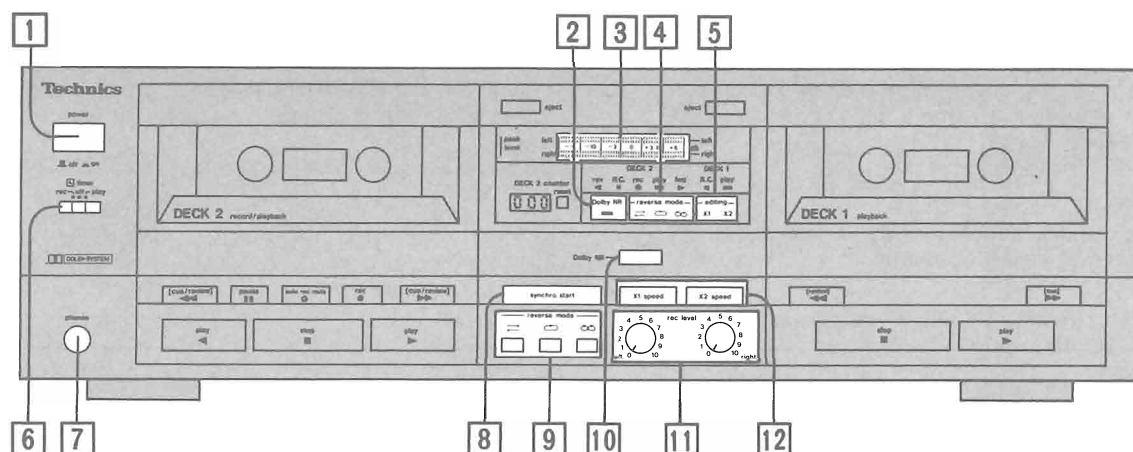
• Stereo connection cables..... 2
(RFA006)

• L-type cables..... 2
(SJP2257T)

• AC power supply cord (polarized).... 1
(SJA175-1: (P)
(SJA175: (PC))

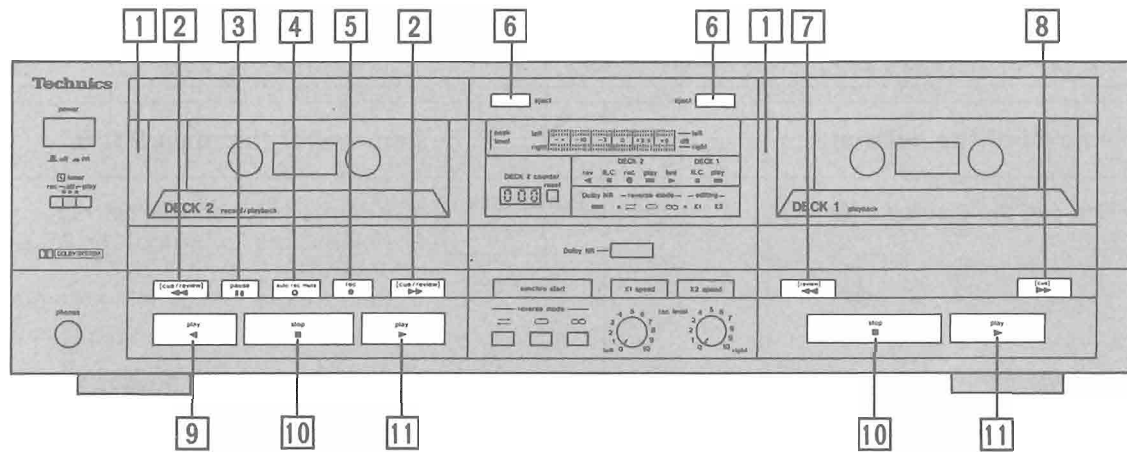


LOCATION OF CONTROLS



Controls common to both tape decks

1 Power switch



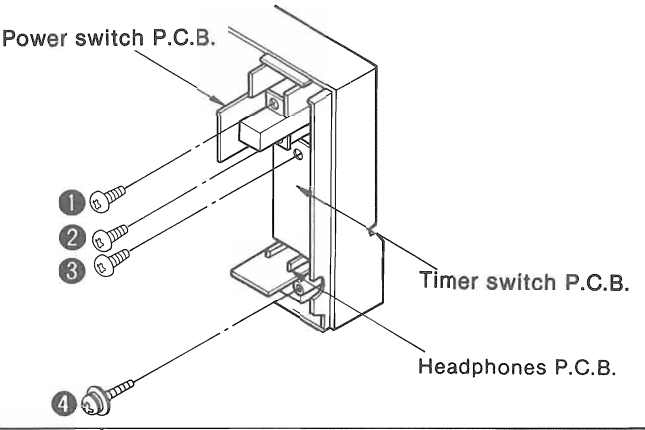
DISASSEMBLY INSTRUCTIONS

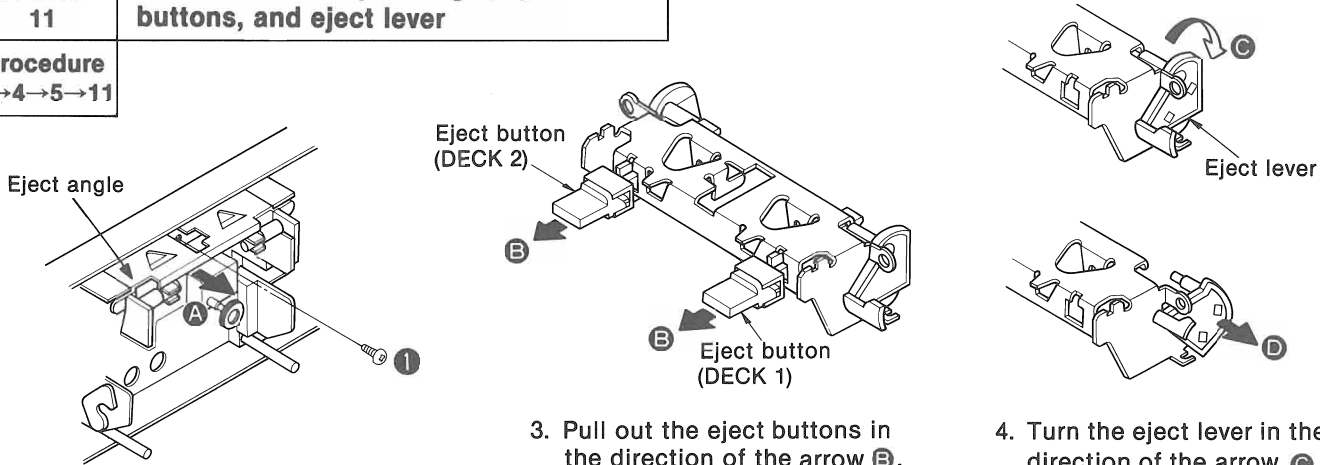
"ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the cabinet	Ref. No. 2	Removal of the main P.C.B.

Ref. No. 3	Removal of the front panel ass'y	2. Remove the 2 connectors (CP1, CP2). 3. Remove the 8 flat cables (CN3, CN4, CN5, CN6, CN7, CN8, CN9, CN10). 4. Remove the front panel in the direction of the arrow.	
Procedure 1→3	1. Remove the 5 screws (①~⑤).		

Ref. No. 7	Removal of the power switch P.C.B., timer switch P.C.B. and headphones P.C.B.	 Power switch P.C.B. Timer switch P.C.B. Headphones P.C.B.	

Ref. No. 11	Removal of the eject angle, eject buttons, and eject lever	 1. Remove the 1 screw (1). 2. Pull out the eject angle in the direction of the arrow A. 3. Pull out the eject buttons in the direction of the arrow B. 4. Turn
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MEASUREMENT AND ADJUSTMENT METHODES

Measurement Condition

- Rec. level control; Maximum
- Timer switch; Off
- Reverse-mode selector switch; $\rightleftarrows$
- Edit-recording tape-speed selector; X1

- Dolby NR switch; Off
- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature $20 \pm 5^{\circ}\text{C}$ ($68 \pm 9^{\circ}\text{F}$)

HEAD AZIMUTH ADJUSTMENT (DECK 2/1)

1. Playback the azimuth adjustment portion (8kHz, -20dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-CH and R-CH are maximized and the lissajous waveform, as illustrated, approaches 0 degrees.

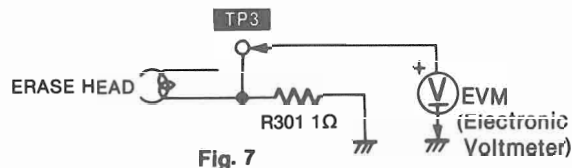
Note: If L-CH and R-CH are not maximized at the same point, adjust to the point where the levels of each channel are maximized and equal.

2. Perform the same adjustment in the play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

ERASE CURRENT ADJUSTMENT (DECK 2)

1. Insert the Metal blank test tape (QZZCRZ) and set the unit to the Record Pause mode.
2. Adjust VR301 so that the output between TP3 and GND is within the standard value.

Standard value: $190 \pm 5 \text{ mA (Metal)} \dots \text{EVM Reading: } 190 \pm 5 \text{ mV}$



■ TERMINAL FUNCTION OF IC's

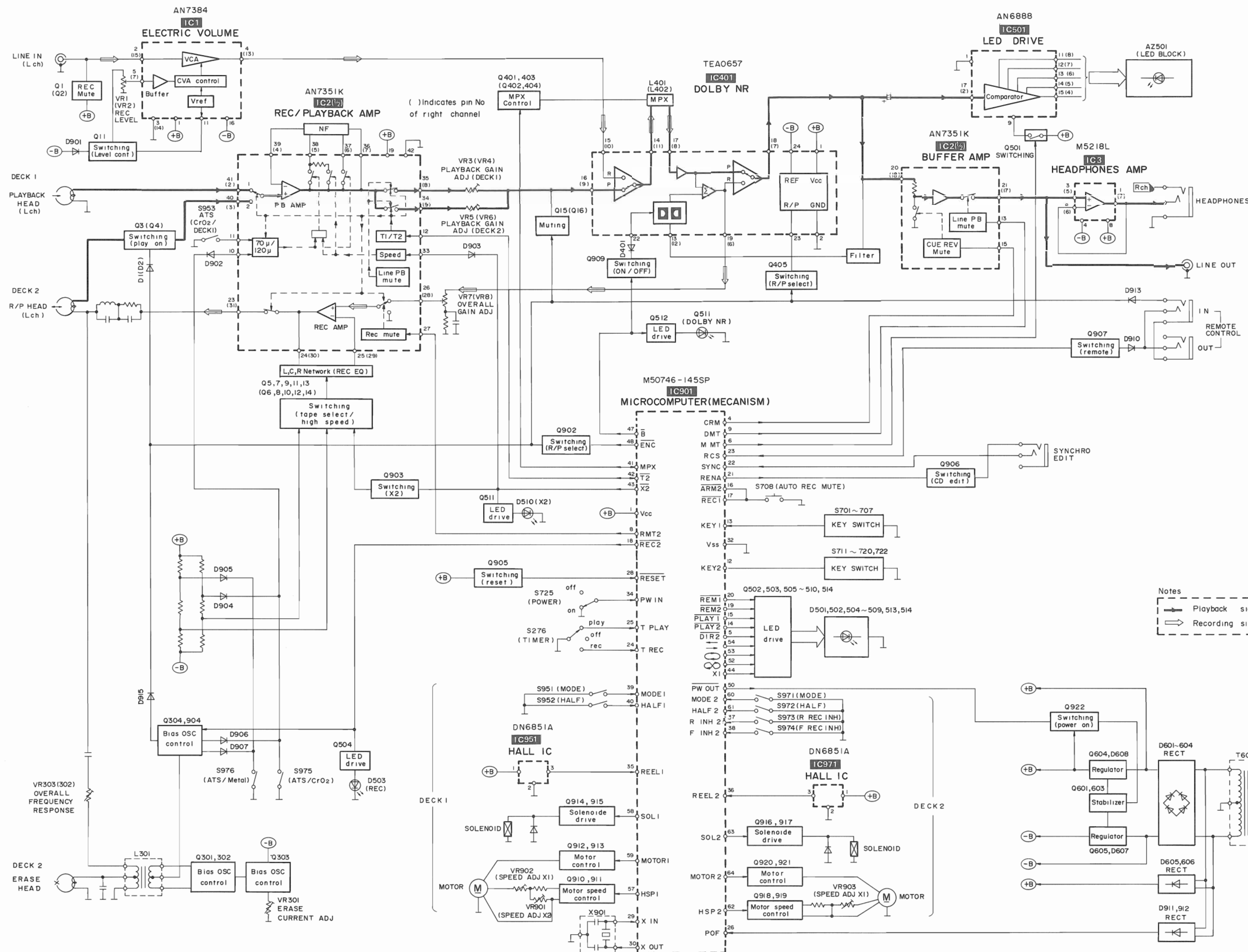
• IC901 (M50746-145SP): MICROCOMPUTER

Pin No.	Mark	I/O Division	Function
1	V _{CC}	I	Power supply terminal
2	AV _{SS}	—	• Connected to V _{SS}
3	V _{REF}	I	Standard voltage terminal (5V)
4	CRM	O	CUE/REV mute signal • "L" level in muting is off mode. • "H" level in muting is on mode.

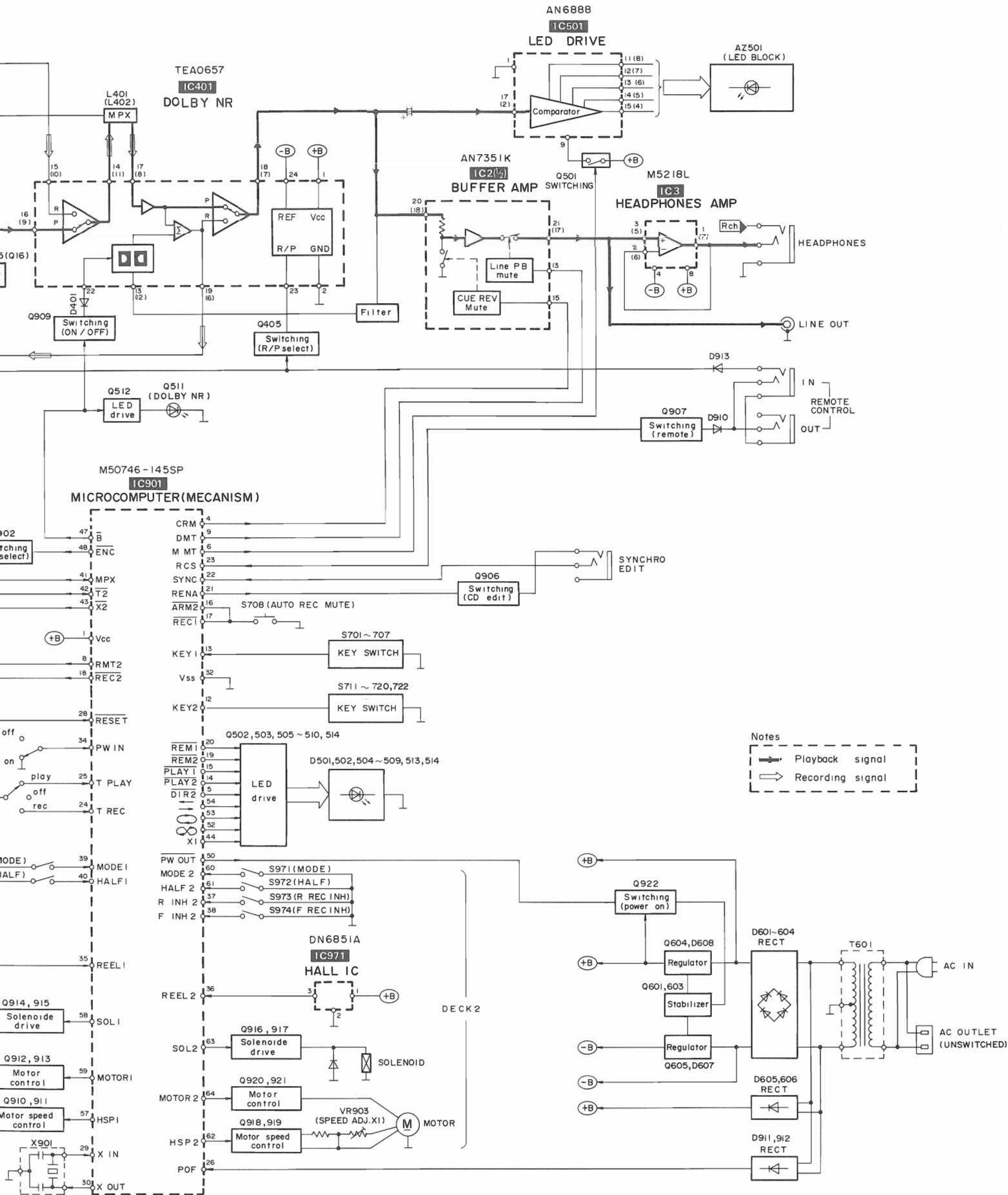
Pin No.	Mark	I/O Division	Function
36	REEL 2	I	Deck 2 Rotation pulse signal of reel table
37	RINH 2	I	Deck 2 Reverse Rec. Inh. switch select terminal
38	FINH 2	I	Deck 2 Forward Rec. Inh. switch select terminal
39	MODE 1	I	Deck 1 mechanism mode switch select terminal
40	HALF 1	I	Deck 1 cassette half detection switch • "L" level in half detection switch is on mode. • "H" level in half detection switch is off mode.
41	MPX	O	MPX filter IN/OUT control signal • "OPEN" with Dolby NR "IN"<

BLOCK DIAGRAM

WIRING CON



WIRING CONNECTION DIAGRAM



RESISTORS & CAPACITORS

Notes : * 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.

Numbering System For Resistors

Example:

ERD	25	F	J	102
Type	W			

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
R909	ERDS2TJ103T	C. RESISTOR 1/4W 10K		R963	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K	
R910	ERDS2TJ103T	C. RESISTOR 1/4W 10K		R964	ERDS2TJ184T	C. RESISTOR 1/4W 180K	
R911	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K		R965	ERDS2T		

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
C46	ECKT1H103ZF	C. CAPACITOR 50V 0.01U					
C49	ECEA1CK100B	E. CAPACITOR 16V 10U					
C50	ECEA1CK100B	E. CAPACITOR 16V 10U					
C53	ECQB1H183JZ3	P. CAPACITOR 50V 0.018U					

