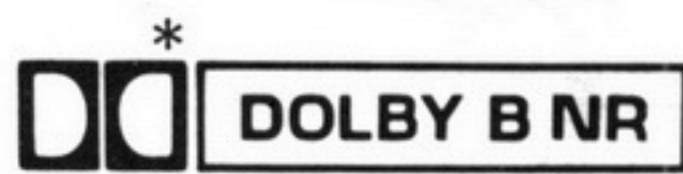


Service Manual



Stereo Cassette Player

Mini Cassette
RQ-SX3



Colour

(K)... Black Type

Area

Suffix for Model No.	Area	Colour
(E)	Europe.	(K)
(EB)	Great Britain.	

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

AR90 (AR90IV) MECHANISM SERIES

SPECIFICATIONS

Power Requirement:	Battery; DC 1.5V one "AA" size battery (not included) (Panasonic R6, LR6 or equivalent not included) Rechargeable Battery; DC 1.2V with an included Panasonic Rechargeable Battery (RP-BP62EYS) × 1	Charger: (E)	Input; AC 220V, 50Hz, 4W (RP-BC155EY-0) (included) Output; DC 1.2V, 350mA
Power Output:	5mW + 5mW	(EB)	Input; AC 240V, 50Hz, 4W (RP-BC155EBYA) (included) Output; DC 1.2V, 350mA
Output Jack:	Headphones; 16Ω (mini jack φ3.5)	Frequency Range:	15~20,000Hz (with a normal tape) 15~20,000Hz (with a CrO ₂ tape) 15~20,000Hz (with a Metal tape)
Dimensions:	(W × H × D) 108.5 × 76.6 × 21.8mm	Motor:	Electrical governor motor
Weight:	184g (with rechargeable battery)	Track System:	4-track 2-channel stereo playback
		Tape Speed:	4.8cm/s

Note: Design and specifications are subject to change without notice.
Weight and dimensions are approximate.

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Panasonic®

MEASUREMENTS AND ADJUSTMENTS

ADJUSTMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ADJUSTMENTS	
1. Set volume control to maximum. 2. Set Dolby NR Switch to OFF.	3. Release the hold state. (Refer to page 2) 4. Set power source voltage to 1.5V DC.

CONTROL POSITIONS AND EQUIPMENT USED

1. Frequency counter

TAPE SECTION

ITEM	TEST TAPE	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
Tape speed adjustment	QZZCWAT (3kHz, -10dB)	Connect the frequency counter to Headphones jack (16Ω) (Refer to Fig. 1)	VR1 (Refer to Fig. 2)	Playback the central part of the tape and adjust VR1 so that the tape speed is as follows. Forward: 3000 ± 10Hz Reverse: 2940 ~ 3050Hz Make sure that the frequency range is within ± 60Hz for between "Forward" and "Reverse" mode.

Note: The playback head is supplied on the head arm assembly. (See the Mechanism parts location on page 17.)
The assembly requires no adjustment.

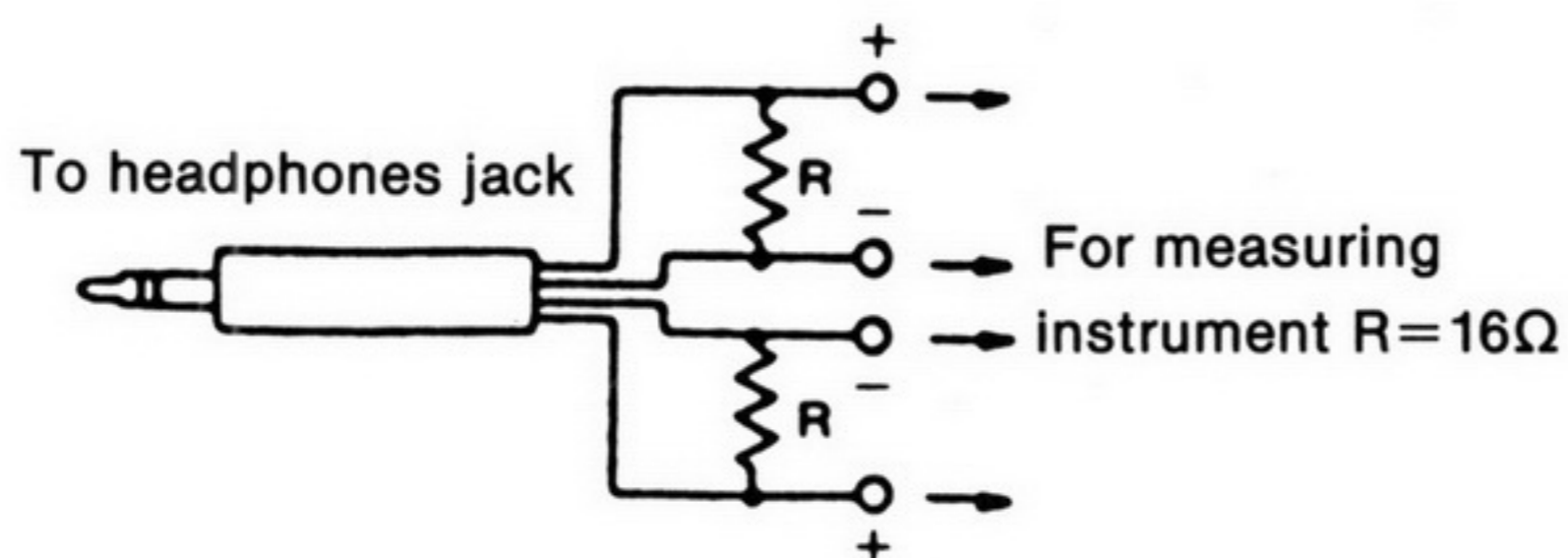


Fig. 1

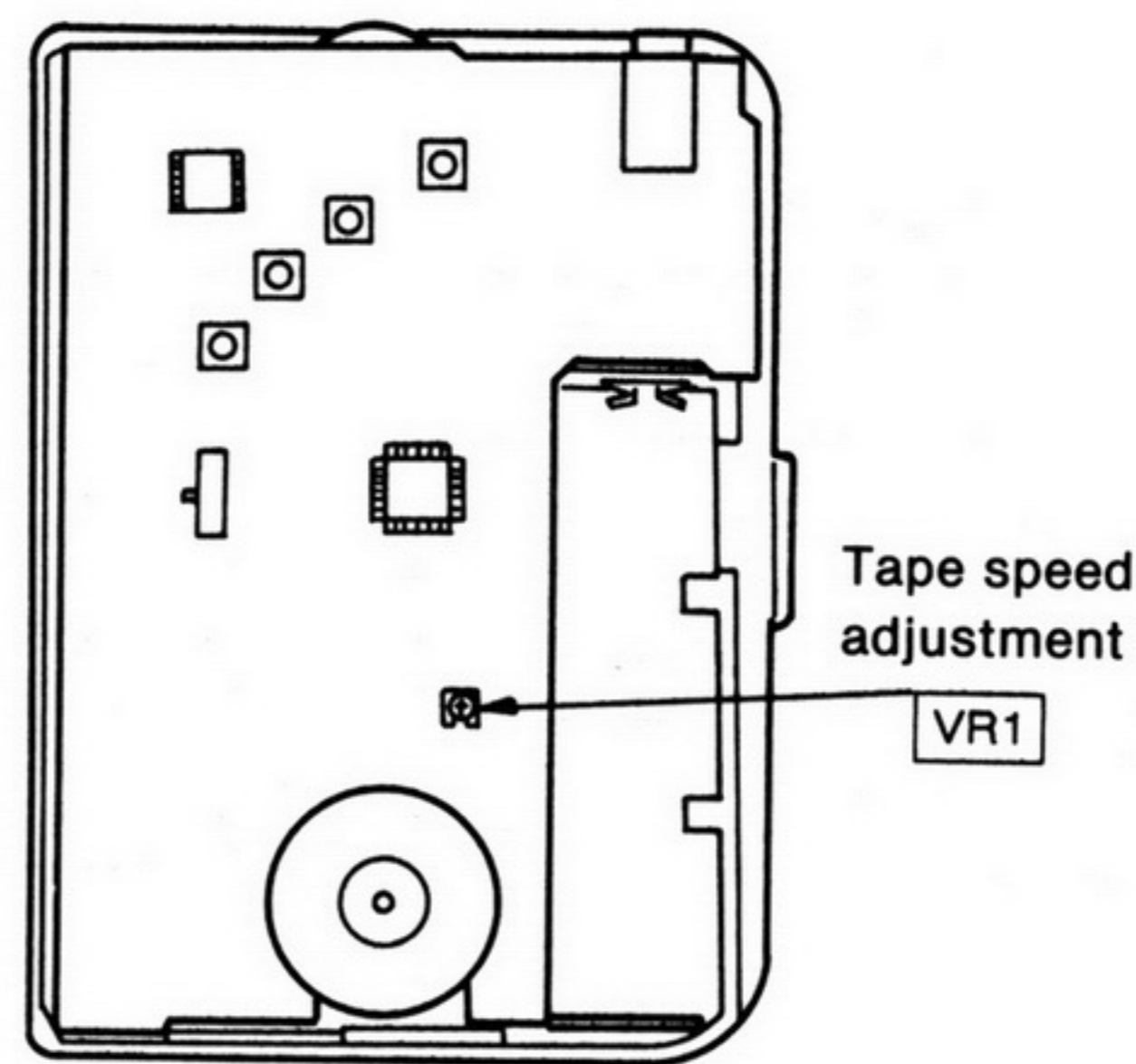
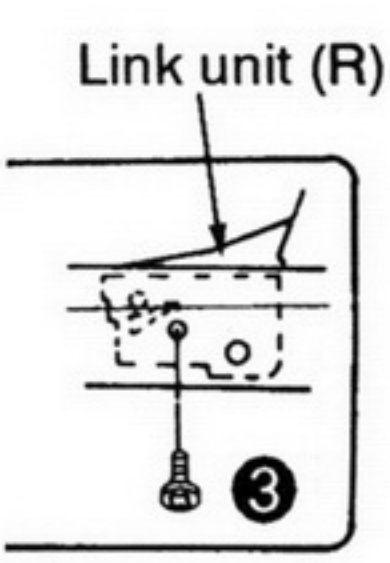
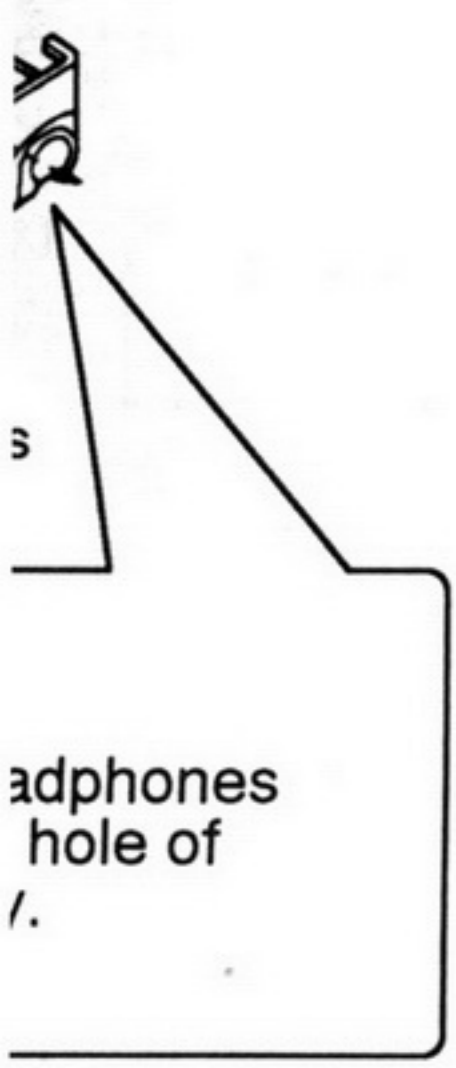


Fig. 2

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itch bosses with



SCHEMATIC DIAGRAM

(See parts list on pages 19, 20.)

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

Notes:

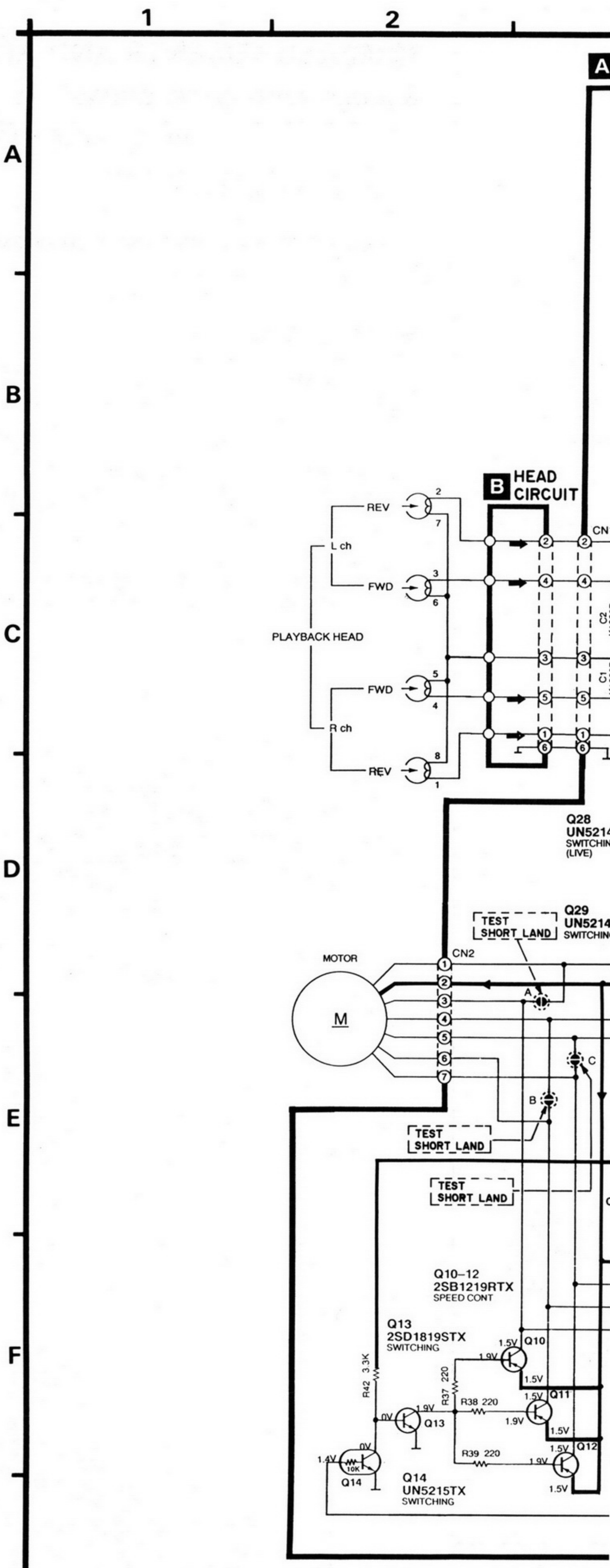
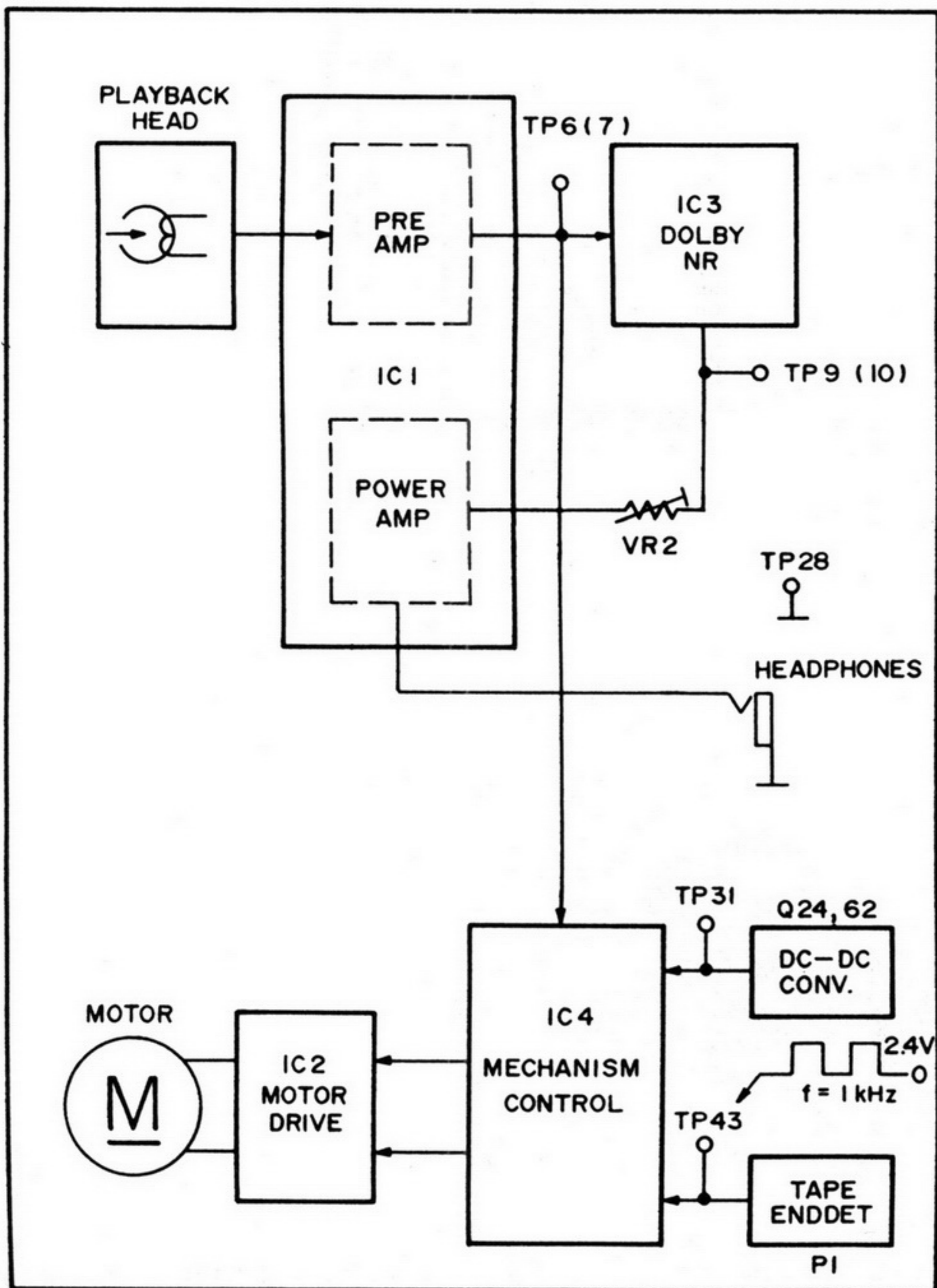
- S3 : HOLD (PUSH HOLD) switch in "OFF" position.
- S4 : Play/direction (◀▶) switch.
- S5 : Fast forward (FF) switch.
- S6 : Rewind (REW) switch.
- S7 : Stop (■) switch.
- S8 : FWD/REV switch in "FWD" position.
- S9 : Play mode selector (BLANK SKIP, REVERSE MODE) in "↺" position.
(ON: ↺, OFF: ↻)
- S10 : Dolby noise reduction (NR) switch in "OFF" position.
- S11-1 : Tape detector (OPEN/CLOSE) switch in "OPEN" position.
- S11-2 : Tape detector (METAL/NORMAL) switch in "OFF (METAL)" position.
- VR1 : Tape speed adjustment.
- VR2 : Volume adjustment.
- DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
No mark... Playback.

Volume VR $\left[\begin{array}{l} \text{MAX...110mA} \\ \text{MIN...115mA} \end{array} \right]$

• Signal line

→ : +B line, → : Playback signal.

• BLOCK DIAGRAM



A MAIN CIRCUIT(PRE AMP/S-XBS/POWER AMP/DOLBY NR/MOTOR DRIVE/MECHANISM CONTROL/DC-DC CONVERTER)

