

Service Manual

AC/Battery Mini Stereo Cassette Player
with Light Weight Stereo Headphones

Mini Cassette
RQ-J75

(Silver)
(Black)



This is the Service Manual for the following areas.

- For all European areas except United Kingdom.
- For United Kingdom.
- For Asia, Latin America, Middle East and Africa areas.
- For Australia.

RQ-J75 in black is also available in some countries.

RQ-J75 MECHANISM SERIES

Specifications

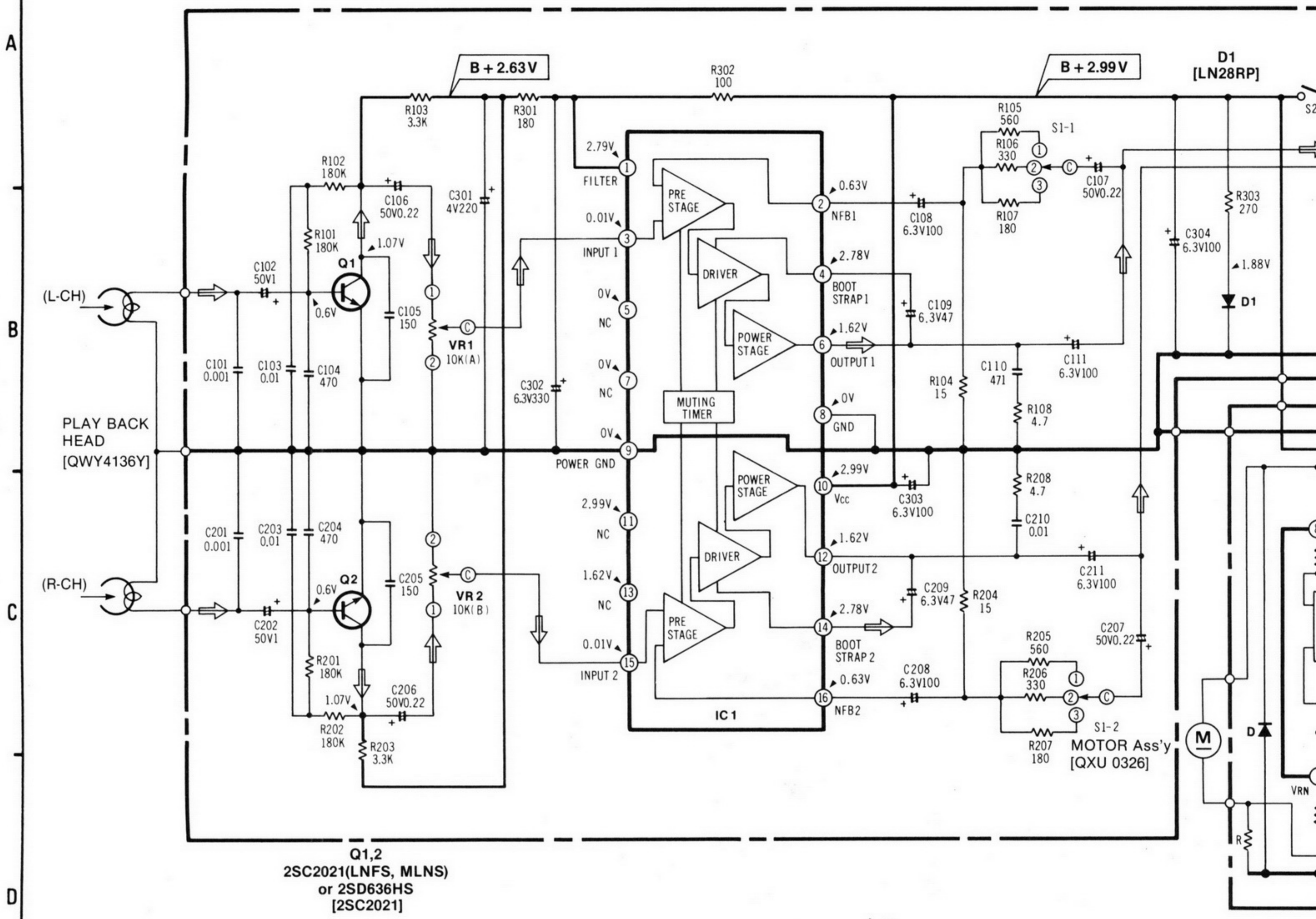
Power requirement:	Battery; 3V (two R6 (UM-3) size dry batteries) <input type="checkbox"/> <input type="checkbox"/> ...AC; with optional Panasonic AC adaptor RP-31 <input type="checkbox"/>AC; with optional National AC adaptor RP-34 Rechargeable battery; with optional rechargeable battery pack RP-009
Motor:	Electrical governor motor
Power consumption:	5W
Frequency range:	60—14,000Hz
Track system:	4-track 2-channel stereo playback with included stereo headphones
Tape speed:	4.8cm/s
Fast forward and rewind time:	Approx. 110 seconds with C-60 cassette tape
Input:	DC in; 3V
Output:	Headphones; Output level 560mV/channel over (at 16Ω)
Head:	1 LH head for stereo playback
Dimensions:	88mm(W)×134mm(H)×35mm(D)
Weight:	250g, without batteries

Design & specifications are subject to change without notice.

 **National / Panasonic**

Matsushita Electric Trading Co., Ltd.
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SCHEMATIC DIAGRAM

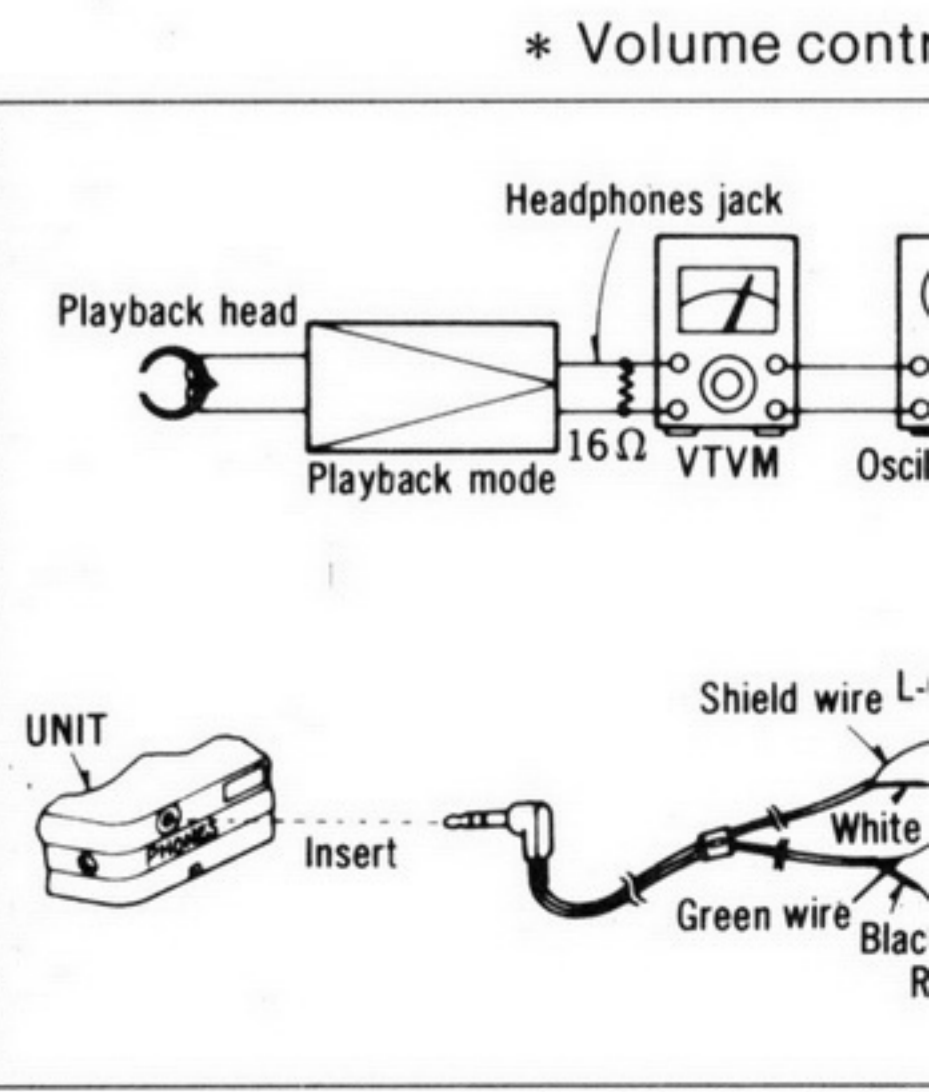


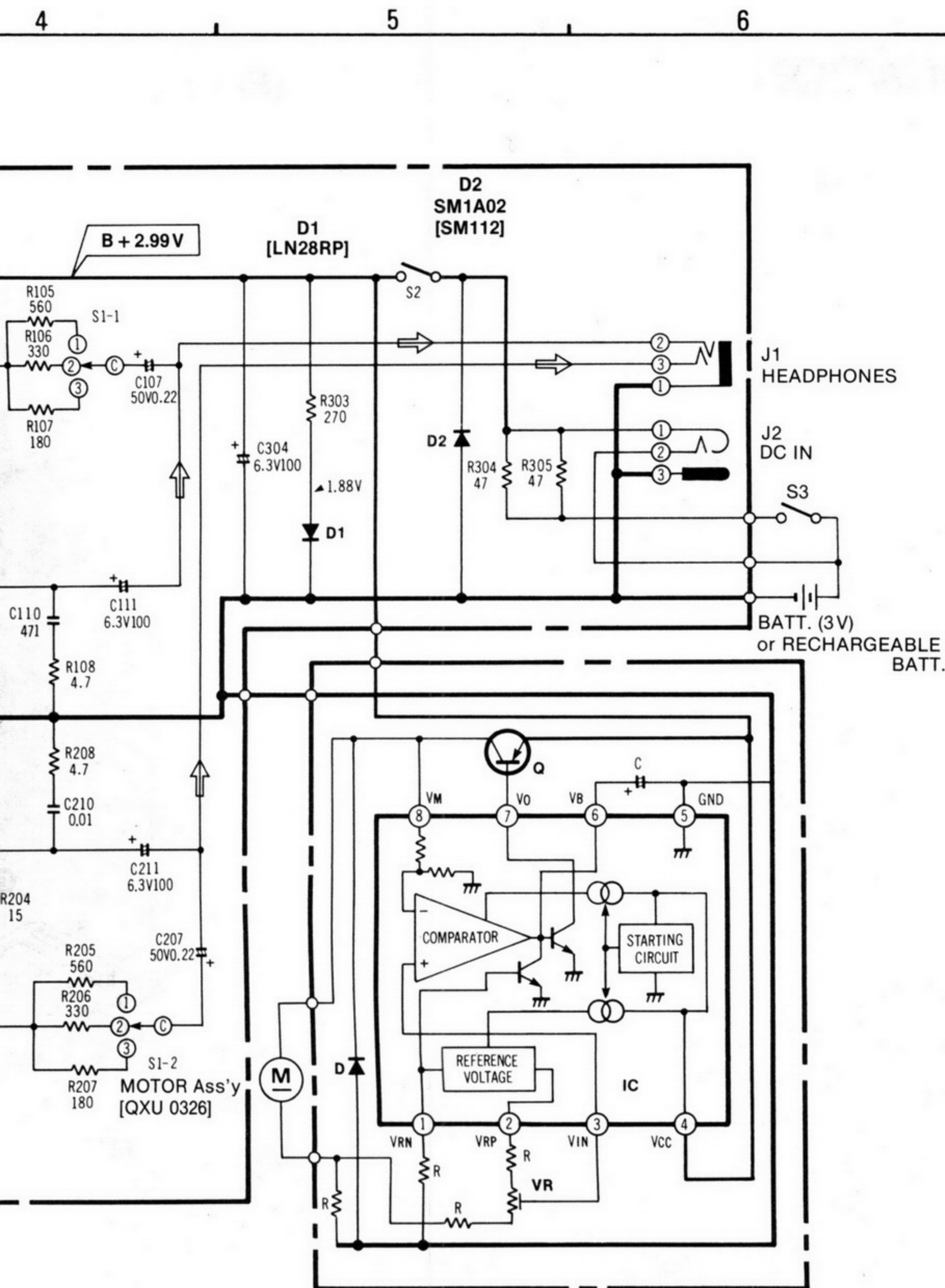
Q1,2
2SC2021(LNFS, MLNS)
or 2SD636HS
[2SC2021]

- NOTES:**
- S1-1, S1-2.....Tape select switch (shown in ② position).
① NORMAL-HIGH
② NORMAL-LOW/METAL-HIGH
③ METAL-LOW
 - S2.....Power ON/OFF switch (shown in OFF position).
 - VR1, 2Volume control.
 - Resistance are in ohms (Ω), 1/8 watt unless specified otherwise.
K = 1,000 Ω , M = 1,000K Ω .
 - Capacity are in microfarads (μ F) unless specified otherwise.
P = Pico-farads.
 - All voltage values shown in circuitry are under no signal condition and playback mode with control at maximum position.
For measurement, use VTVM.
 - (\Rightarrow) this arrow indicates the flow of the playback signal.
 - Described in the schematic diagram are two types of numbers: the supply parts number and production parts number for transistors and diodes.
One type of number is used for supply parts number and production parts number when they are identical.
- e.g. Q1
2SC2021LN(F,S) — Production parts number
or 2SD636H(R,S)
[2SC2021] — Supply parts number
D1
1SR35200 — Production parts number
[SM112] — Supply parts number
- The supply parts number is described alone in the replacement parts list.
 - This schematic diagram may be modified at any time with the development of new technology.

SPECIFICATIONS

Playback frequency response * Use test tape ...QZZCFM (-20dB)	125Hz: -3 \pm 5dB
	315Hz: 0dB
Playback gain * Use test tape ...QZZCFM (315Hz, 0dB)	1kHz: -1 \pm 5dB
	4kHz: 0 \pm 5dB
	8kHz: -1.5 \pm 5dB
	Greater than 0.57V





ELECTRICAL PARTS LIST

NOTES: RESISTORS

- ERD.....Carbon
- ERG.....Metal-oxide
- ERS.....Metal-oxide
- ERO.....Metal-film
- ERX.....Metal-film
- ERQ.....Fuse type metallic
- ERC.....Solid
- ERF.....Cement

CHIP RESISTORS

- RRD.....Carbon
- CHIP CAPACITORS
- QCU.....Ceramic

CAPACITORS

- ECBA.....Ceramic
- ECG.....Ceramic
- ECK.....Ceramic
- ECC.....Ceramic
- ECF.....Ceramic
- ECQM.....Polyester film
- ECQE.....Polyester film
- ECQF.....Polypropylene
- ECE.....Electrolytic
- ECEIN.....Non polar electrolytic
- ECQS.....Polystyrene
- ECSD.....Tantalum
- QCS.....Tantalum

REPLACEMENT PARTS LIST

Ref No.	Part No.	Ref No.	Part No.
RESISTORS			
R 101, 102	ERD16TJ104	C 107	ECEA1HKR22
R 103	ERD16TJ272	C 108	ECEA0JK101
R 104	ERD16TJ180	C 109	ECEA0JK470
R 105	ERD16TJ561	C 110	ECKD1H471KB
R 106	ERD16TJ331	C 111	ECEA0GK221
R 107	ERD16TJ181	C 201	ECBA1H102MDY
R 108	ERD16TJ4R7	C 202	ECEA1HK010
R 201, 202	ERD16TJ104	C 203	ECKD1H103ZF
R 203	ERD16TJ272	C 204	ECBA1H471KBY
R 204	ERD16TJ180	C 205	ECKD1H151KB
R 205	ERD16TJ561	C 206	ECEA1HK010
R 206	ERD16TJ331	C 207	ECEA1HKR22
R 207	ERD16TJ181	C 208	ECEA0JK101
R 208	ERD16TJ4R7	C 209	ECEA0JK470
R 301	ERD16TJ181	C 210	ECBA1C103NXY
R 302	ERD16TJ101	C 211	ECEA0GK221
R 303	ERD16TJ271	C 301	ECEA0GK221
R 304	ERD16TJ4R7	C 302	ECEA1ASS331
		C 303, 304	ECEA0JK101
VARIABLE RESISTORS			
VR 1, 2	EVUCAAT65A14	TRANSISTORS	
		Q 1, 2	2SC2021
CAPACITORS			
C 101	ECBA1H102MDY	DIODES & RECTIFIERS	
C 102	ECEA1HK010	D 1	LN28RP
C 103	ECBA1C103NXY	D 2	SM112
C 104	ECKD1H471KB	INTEGRATED CIRCUIT	
C 105	ECKD1H151KB	IC 1	BA5204
C 106	ECEA1HK010		

Ref No.	Part No.	Part Name & Description
SWITCHES		
S 1	QSS2310	Slide Switch (Tape Selector)
S 2	QSB0298	Leaf Switch (Power ON/OFF)
JACKS		
J 1	QJA0173	M3 Jack (Headphones)
J 2	QJA0181	DC IN Jack

* Volume control...MAX.

TERMINATIONS

