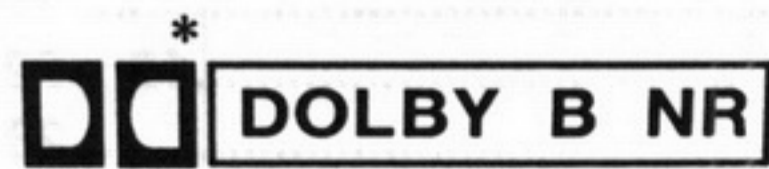


Service Manual

Mini Cassette



Stereo Cassette Player

RQ-SX40



Colour

(K) Black Type

Area

P U.S.A.

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

AR10 Mechanism Series

Specifications

Track System: 4-track, 2 channel, stereo
Frequency Range (Normal/High/Metal): 40 ~ 18,000Hz
Motor: Electrical governor motor
Tape Speed: 4.8cm/s
Output Jack: PHONES; 30 ohm (stereo mini jack diameter 3.5)
Power Output: 4mW+4mW (EIAJ)
Power Requirement:
Rechargeable Battery: DC1.2V with an included Panasonic Rechargeable Battery (RP-BP61PYS1)x1
Battery: DC 1.5V one "AA" size battery (not included) (Panasonic R6, LR6 or equivalent not included)
Dimensions: 110 (Wide) / 76.8 (High) / 21.8 (Depth) mm
 4 5/16 (Wide) / 3 (High) / 7/8 (Depth) inch
Weight: 189g (6.7 oz) (with rechargeable battery)
Playing time:
 (When used in hold mode, at 25 °C on a flat and stable surface.)

The play time may be shorter depending on the operating conditions.

Rechargeable battery: About 10h
Panasonic Dry cell battery (LR6): About 30h
Panasonic Dry cell battery (R6PU): About 13h
Panasonic Dry cell battery (LR6) with rechargeable batteries: About 40h
Panasonic Dry cell battery (R6PU) with rechargeable batteries: About 23h
Recharging time: About 2 hours
Charger: (RP-BC156APY) (included)
 Input: AC120V, 50/60Hz
 Output: DC 340mA, 1.2V

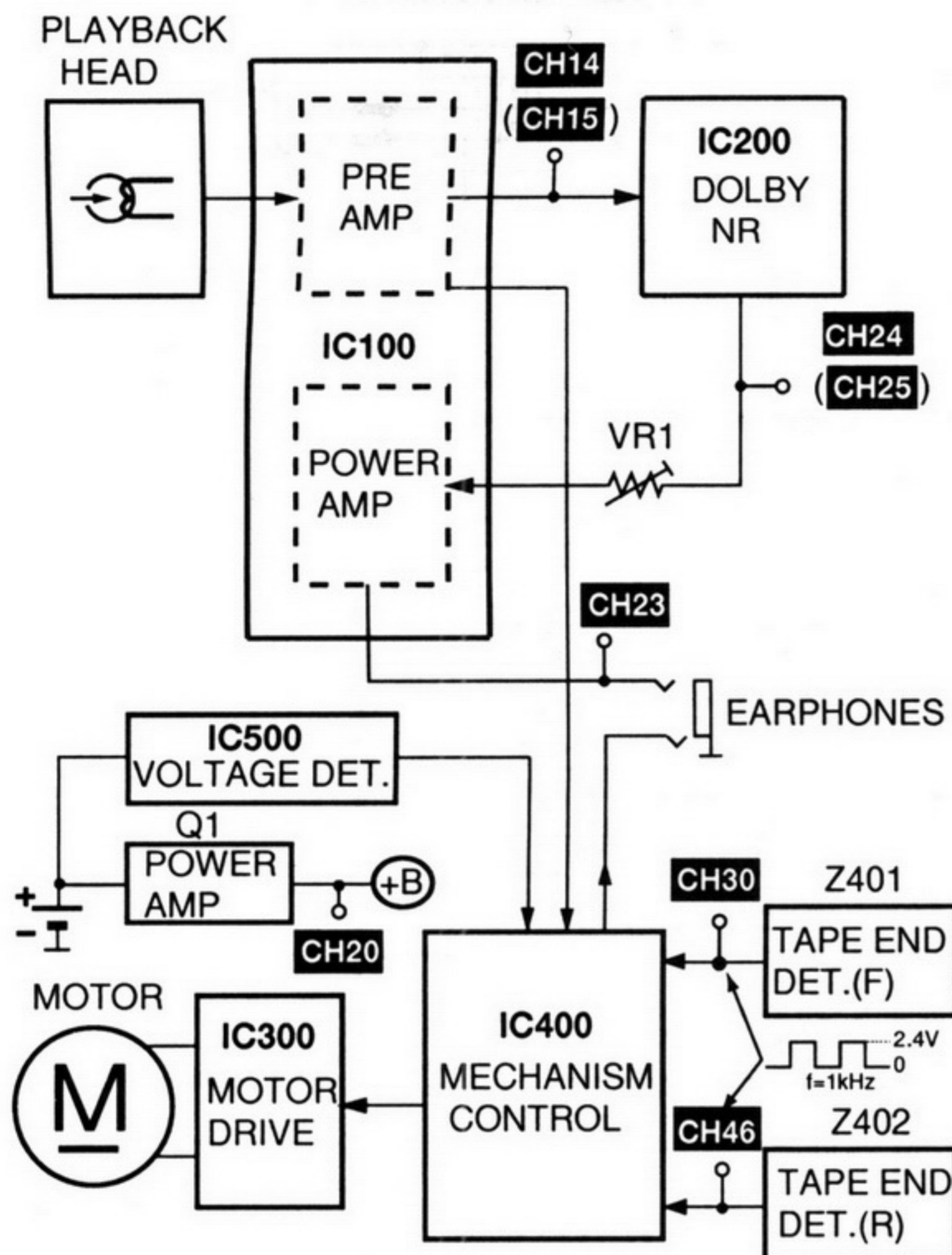
Note: Design and specifications are subject to change without notice. Weight and dimensions are approximate.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Block Diagram



Note: () indicates CH No. of left channel.

Check Point of Signal

1. HEAD → PRE OUTPUT
L CH : **CH15** — GND (EARPHONES TERMINAL)
R CH : **CH14** — GND (EARPHONES TERMINAL)
2. PRE OUTPUT → DOLBY NR OUTPUT
L CH : **CH25** — GND (EARPHONES TERMINAL)
R CH : **CH24** — GND (EARPHONES TERMINAL)
3. DOLBY NR OUTPUT → VR INPUT
L CH : VR TERMINAL — COM(VR TERMINAL)
R CH : VR TERMINAL — COM(VR TERMINAL)
4. VR INPUT → VR OUTPUT
L CH : VR TERMINAL — COM(VR TERMINAL)
R CH : VR TERMINAL — COM(VR TERMINAL)
5. POWER AMP OUTPUT → EARPHONES OUTPUT
L CH : EARPHONES TERMINAL — COM(EARPHONES TERMINAL)
R CH : EARPHONES TERMINAL — COM(EARPHONES TERMINAL)
6. PHOTO COUPLER(END) — (F) SIDE
PULSE OUT : **CH30** — GND (EARPHONES TERMINAL)
7. PHOTO COUPLER(END) — (R) SIDE
PULSE OUT : **CH46** — GND (EARPHONES TERMINAL)
8. REMOTE CONTROL RECEIVE OUTPUT
PULSE OUT : EARPHONES TERMINAL — GND(EARPHONES TERMINAL)

Schematic Diagram (See parts list on pages 23, 25.)

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

Notes:

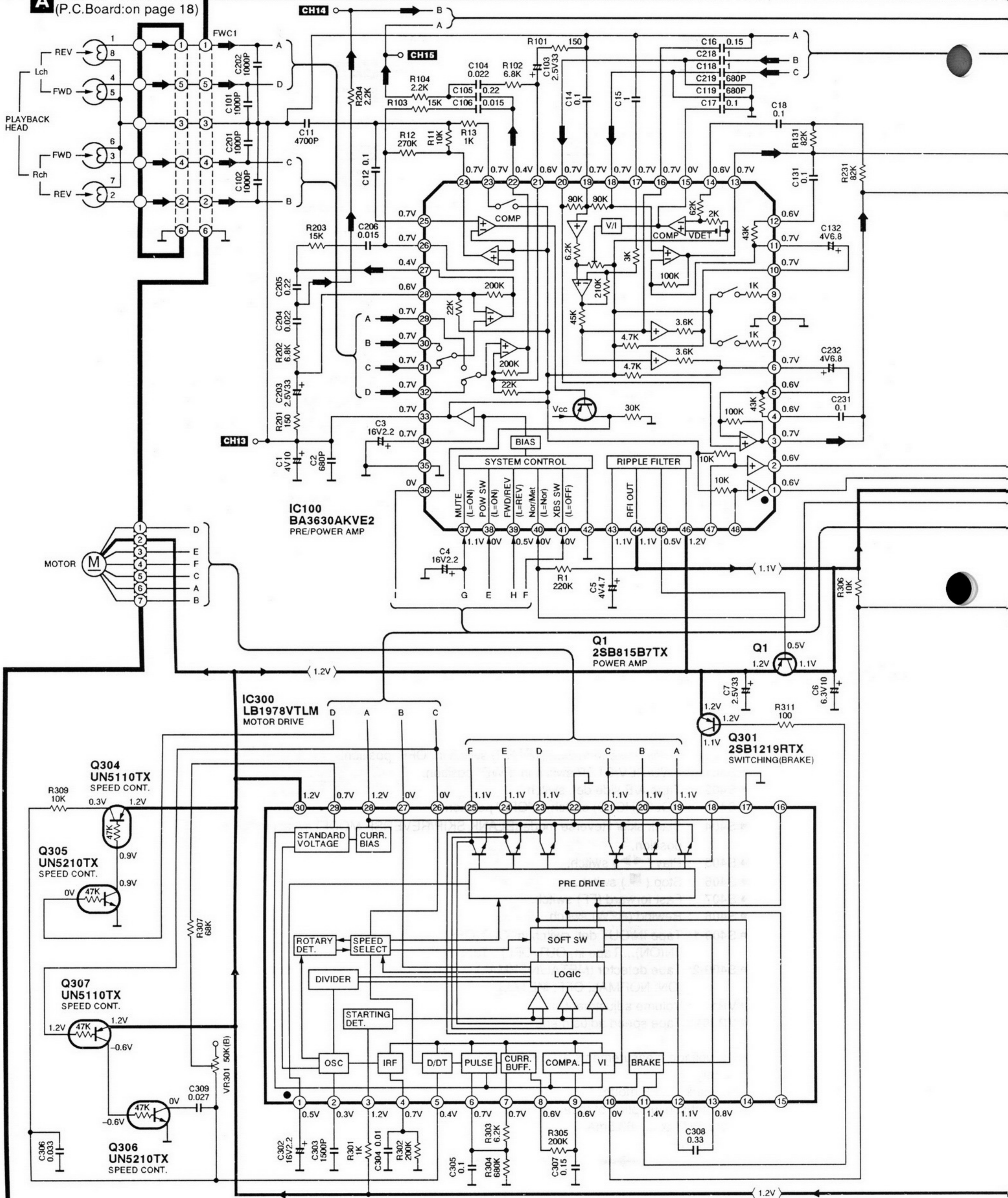
- **S201** : Dolby noise reduction (NR) switch in "OFF" position.
- **S401** : FWD/REV/STOP switch in "FWD" position.
- **S402** : Tape A/B side det. switch.
- **S403** : HOLD (HOLD) switch in "OFF" position.
- **S404** : Blank skip/ Reverse mode (BLANK SKIP/REVERSE MODE) switch in "OFF" position.
- **S405** : Play (▶) switch.
- **S406** : Stop (■) switch.
- **S407** : Fast forward (FF) switch.
- **S408** : Rewind (REW) switch.
- **S409-1**: Tape IN/OUT det. switch in "OUT(OFF)" position.
[IN(ON)... Tape in, OUT(OFF)...Tape out]
- **S409-2**: Tape detector (METAL/NORMAL) switch in "OFF (METAL)" position.
[ON: NORMAL, OFF: METAL]
- **VR1** : Volume adjustment.
- **VR301** : Tape speed adjustment.
- DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
No mark FF mode.
- Current consumption of tape playback (Dolby NR: ON, B.S.: ON, ASC EQ: NOR)
Volume Max 63.5mA.
- Signal line

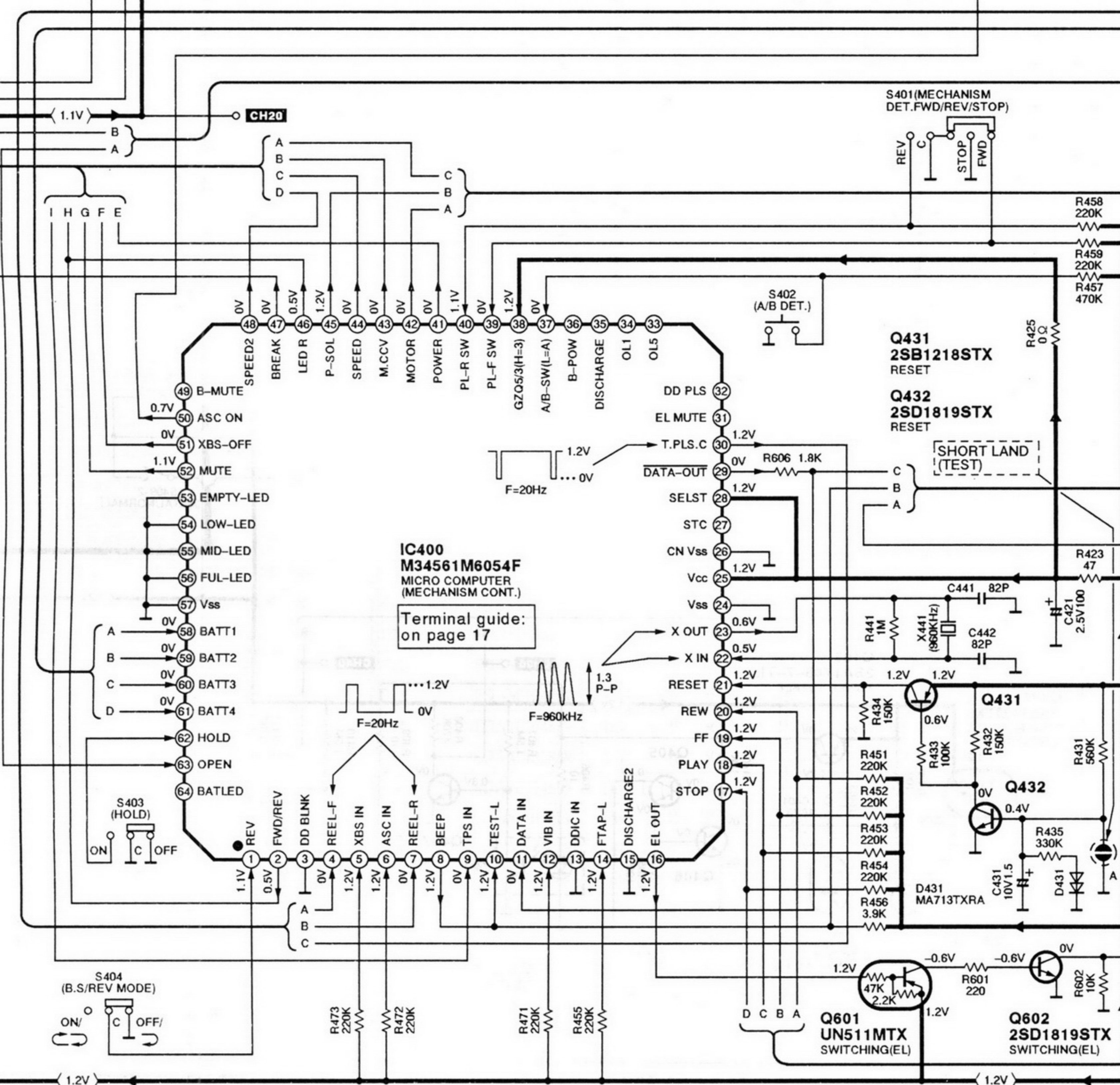
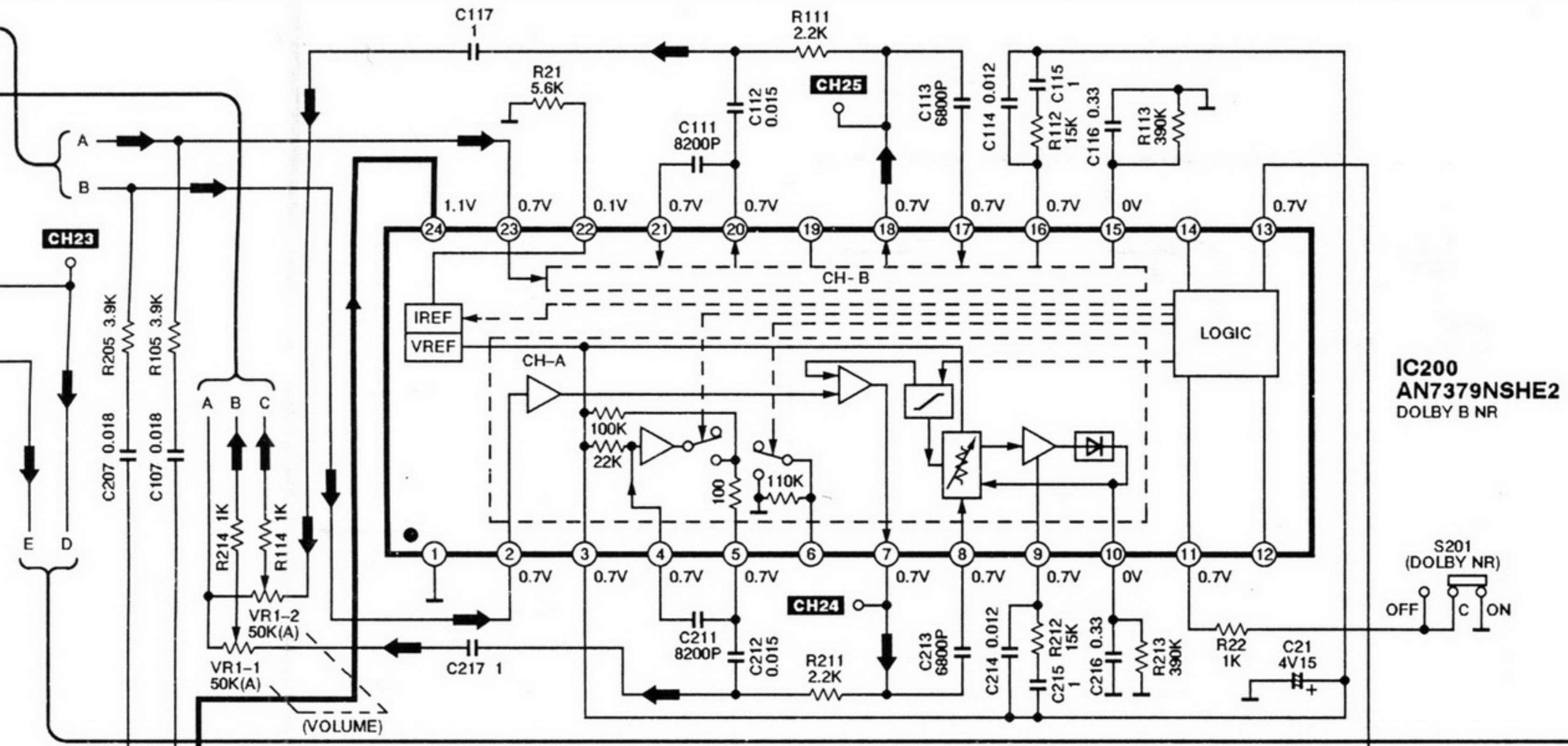
➔ : +B line ➔ : Playback signal

• Signal line → : Playback signal

B MAIN CIRCUIT (P.C.Board: on page 18)

A HEAD CIRCUIT (P.C.Board: on page 18)





• Signal line → : Playback signal

B MAIN CIRCUIT (P.C.Board: on page 18)

