

Service Manual

Radio Cassette

Stereo Radio Cassette Recorder

RX-FT550

Color

(K) Black Type



Area

Country Code	Areas	Color
(E)	Continental Europe	(K)
(EB)	Great Britain	
(EG)	F.R. Germany & Italy	

RX-FW29L MECHANISM SERIES

SPECIFICATIONS

General:

Power Requirement: AC; (E) (EG) . . 220 V, 50 Hz
(EB) 240 V, 50 Hz
Battery; 9 V (Six UM-1 "R20/LR20"
Batteries)

Power Consumption: 16 W (AC only)
Power Output: 8 W (4 W×2)...RMS (max.)
20 W (10 W×2)...PMPO
10 W (5 W×2)...MPO

Speaker: Woofer; 10 cm PM Dynamic Speaker
(2.7Ω)
Tweeter; CERAMIC Speaker 1.5 cm

Jacks:
Input; CD/LINE IN; 398 mV, 47 kΩ
Output; HEADPHONES; 32Ω, Ø3.5
Dimensions: 556 (W)×150 (H)×146 (D) mm
Weight: 3 kg without batteries

Radio Section:

Radio Frequency Range: FM; 87.5~108 MHz
LW; 148.5~285 kHz
MW; 520~1610 kHz
SW; 5.9~18 MHz
Intermediate Frequency: FM; 10.7 MHz
AM; 459 kHz
Sensitivity: FM; 2.2 μV/50 mW output
(-3 dB Limit Sens.)
LW; 200 μV/m/50 mW output
MW; 200 μV/m/50 mW output
SW; 5.6 μV/50 mW output

Tape Deck Section:

TAPE 1
Frequency Response: 50~12,000 Hz
Tape Speed: 4.8 cm/s
Track System: 4-track 2-channel stereo playback

Tape Deck Section:

TAPE 2
Frequency Response: 50~13,000 Hz
Recording System: AC bias, Magnet erase
Tape Speed: 4.8 cm/s
Track System: 4-track 2-channel stereo recording and playback

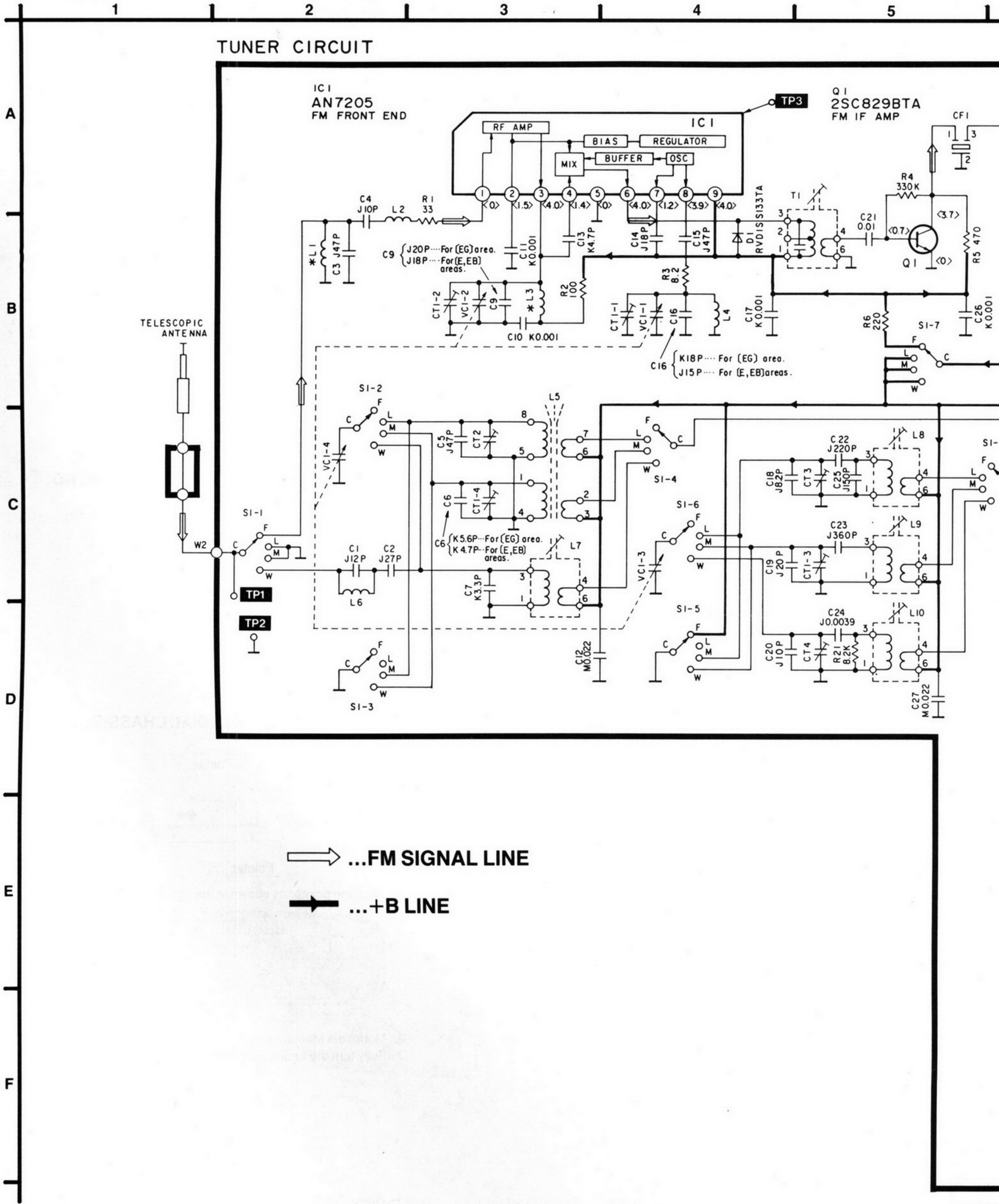
Design and specifications are subject to change without notice.

Panasonic

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

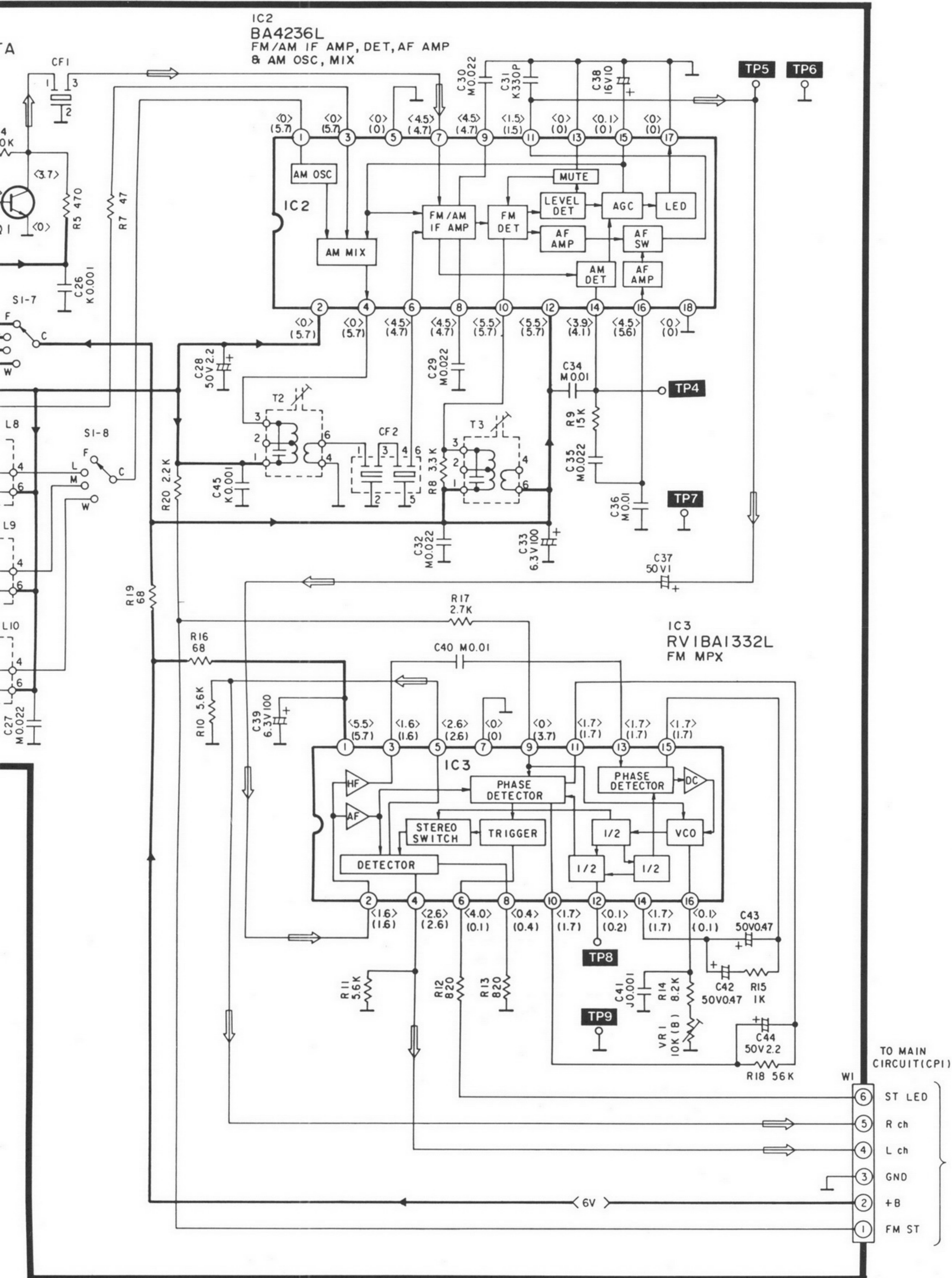
SCHEMATIC DIAGRAM • TUNER CIRCUIT

(Parts List on Page 17, 27 and 28)



⇨ ...FM SIGNAL LINE

➔ ...+B LINE



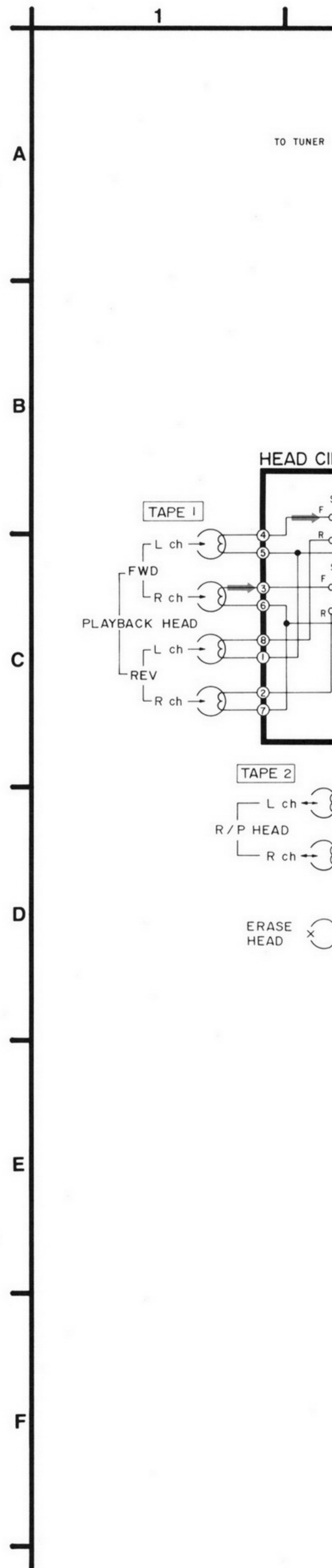
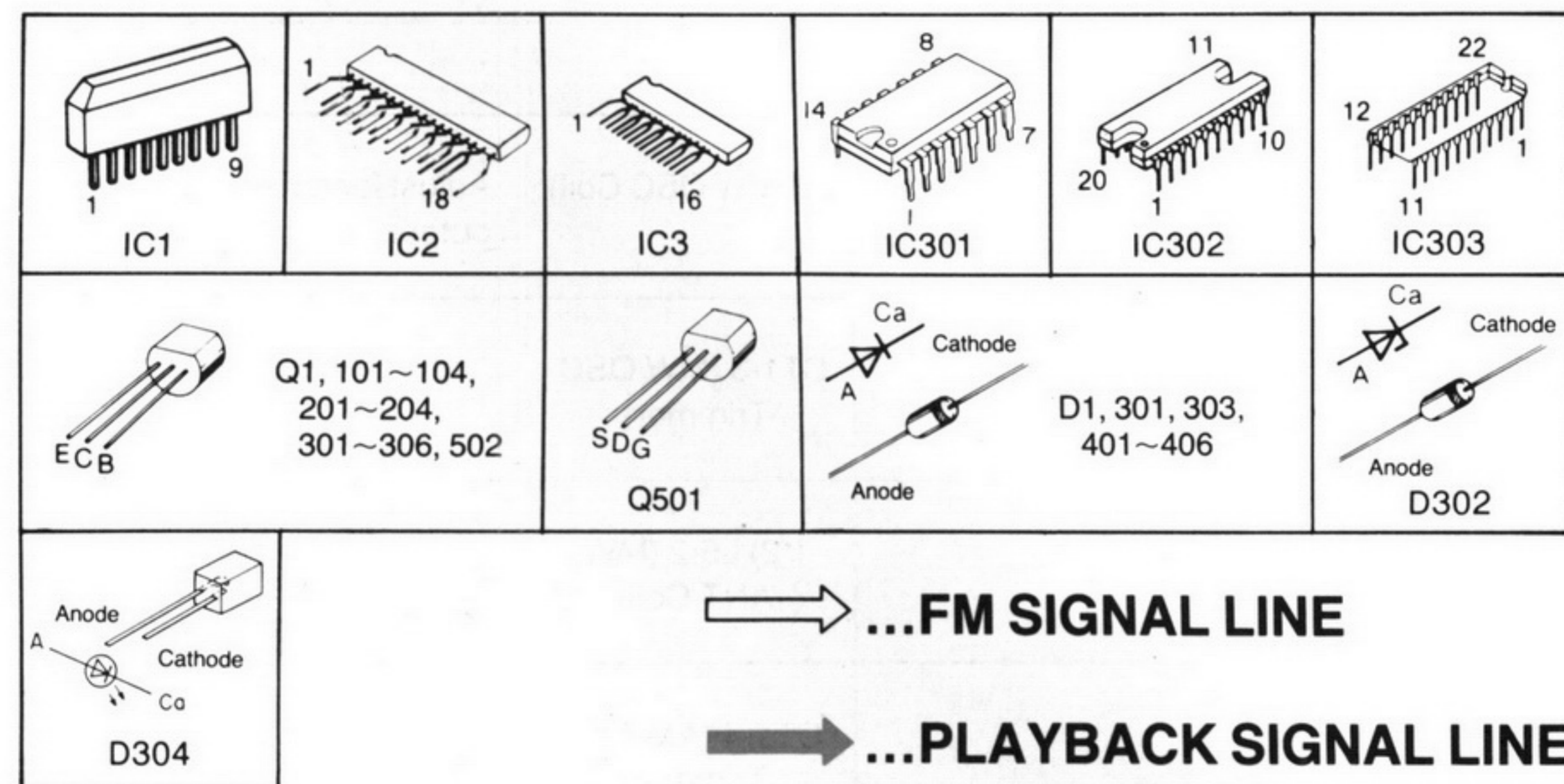
SCHEMATIC DIAG

Notes:

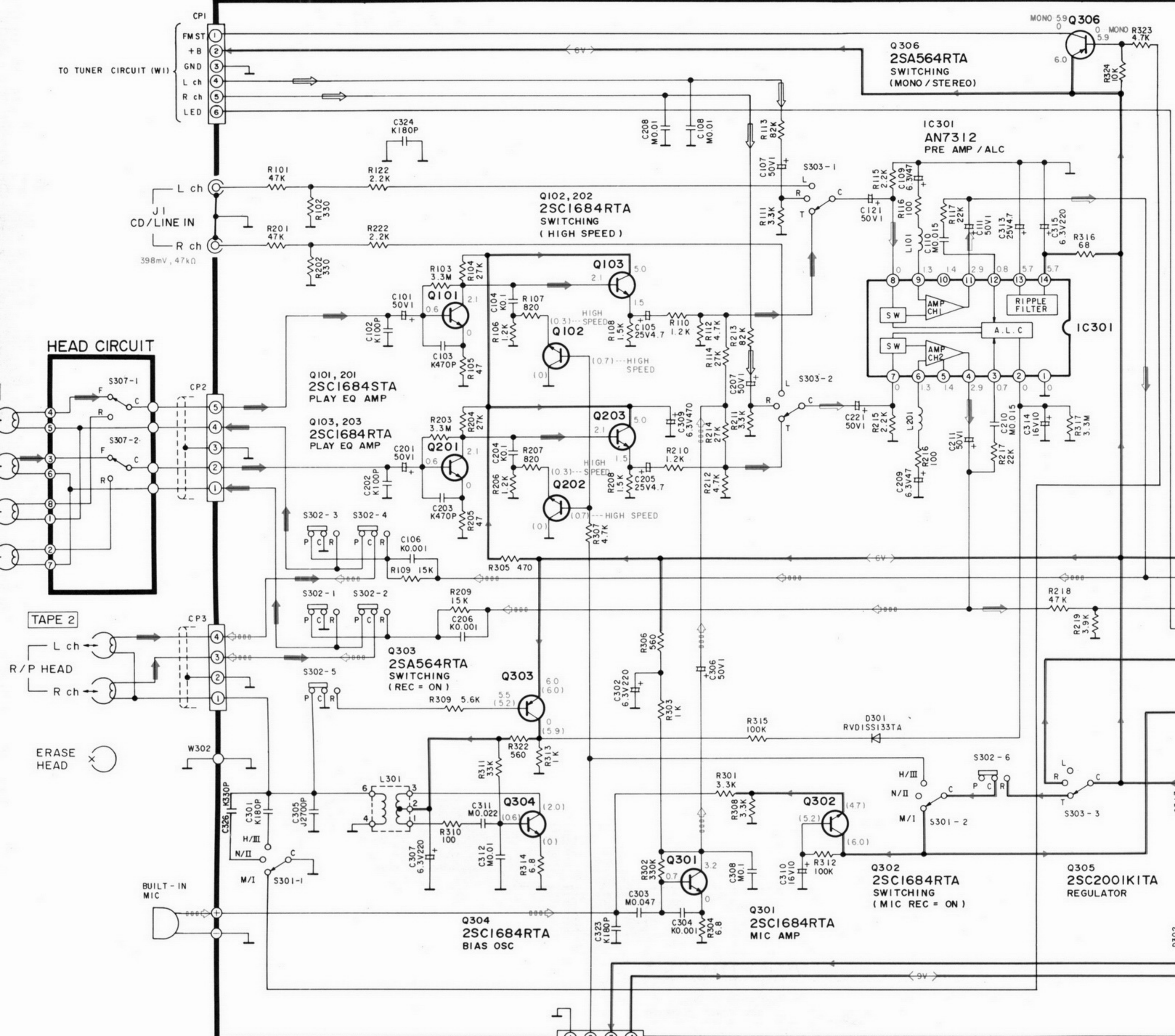
1. S1-1~S1-8: Band select switch in "FM" position.
(F...FM, L...LW, M...MW, W...SW)
2. S301-1, S301-2: Editing/FM mode/Beat proof switch in "MIC/MONO/ " position.
(M/ ...MIC/MONO/ , N/...NORMAL/STEREO/ , H/...HIGH/STEREO/)
3. S302-1~S302-6: Record/Playback switch in "PLAYBACK" position.
(P...PLAYBACK, R...RECORD)
4. S303-1~S303-4: Function selector switch in "TAPE/POWER OFF" position.
(T...TAPE/POWER OFF, R...RADIO, L...CD/LINE IN)
5. S304: AC/DC select switch in "DC" position.
6. S305: Tape 1 motor switch.
7. S306: Tape 2 motor switch.
8. S307-1, S307-2: FWD/REV select switch in "FWD" position.
9. VR1: FM VCO adjustment VR.
10. VR101: Graphic equalizer (10 kHz) control VR (Rch).
11. VR102: Graphic equalizer (1 kHz) control VR (Rch).
12. VR103: Graphic equalizer (330 Hz) control VR (Rch).
13. VR104: Volume control VR (Rch).
14. VR105: XBS level control VR (Rch).
15. VR201: Graphic equalizer (10 kHz) control VR (Lch).
16. VR202: Graphic equalizer (1 kHz) control VR (Lch).
17. VR203: Graphic equalizer (330 Hz) control VR (Lch).
18. VR204: Volume control VR (Lch).
19. VR205: XBS level control VR (Lch).
20. VR501: Tape speed adjustment VR.
21. DC voltage measurements are taken with electronic voltmeter.
The negative terminal of the battery provides negative meter connection point.
No mark...PLAYBACK, ()...RECORD,
< >...FM, ()...AM
22. Battery current: Vol. min. 96 mA (Radio)
160 mA (Tape Playback)
Vol. max 840 mA (Radio)
975 mA (Tape Playback)

Measurement instruction
(Radio: FM 60 dB, 30% Mod.)
(Tape: 315 Hz, 0 dB)
23. 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.
24. The mark () shows test point e.g. **TP1** = test point 1.

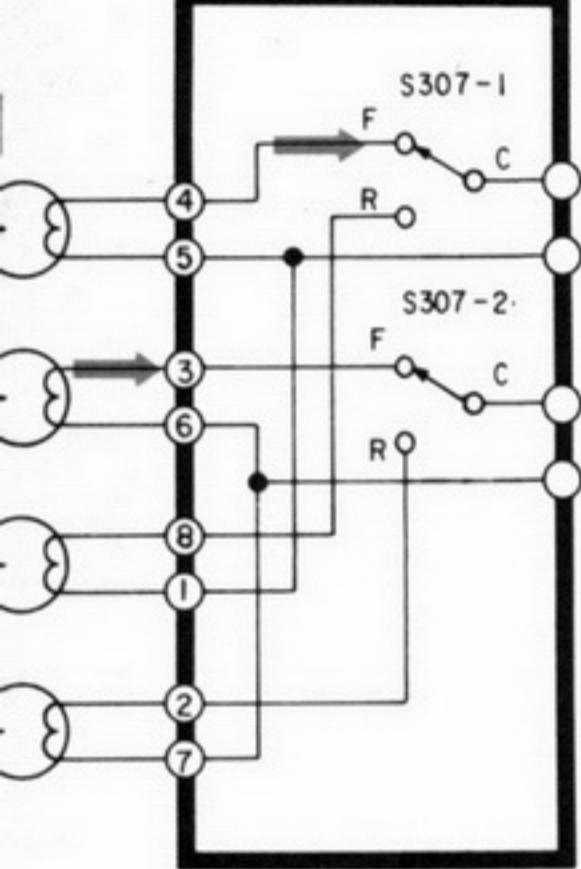
•This schematic diagram may be modified at any time with the development of new technology.



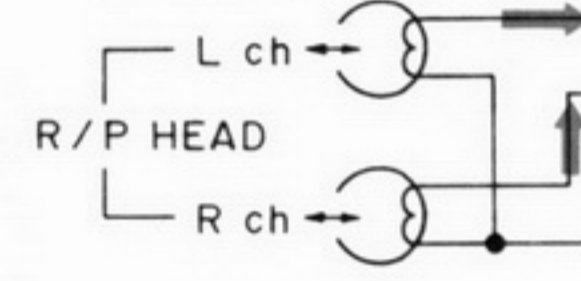
MAIN CIRCUIT



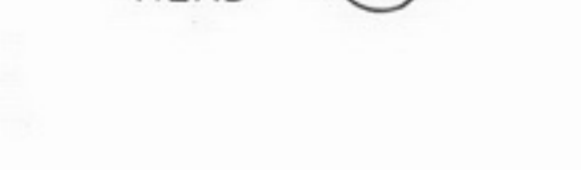
HEAD CIRCUIT



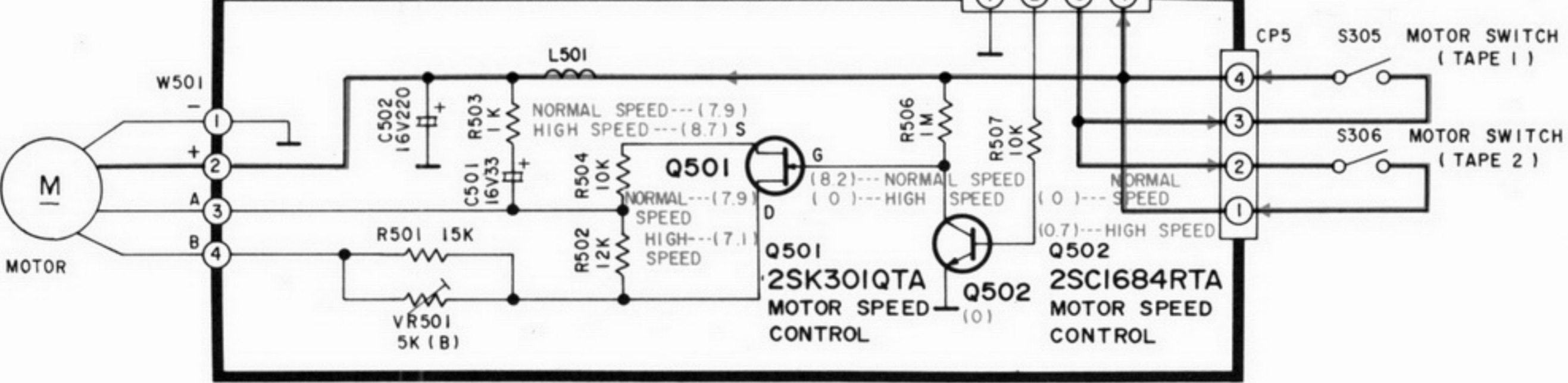
TAPE 2



ERASE HEAD



MECHANISM CONTROL CIRCUIT



GRAPHIC EQUALIZER CIRCUIT

