

Service Manual

Stereo Radio Cassette Recorder

Portable Cassette
RX-FT600



Color

(K) Black Type

Area

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

SG-20 MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement: AC: (E) (EG)..220 V, 50 Hz
(EB).....240 V, 50 Hz
Battery; 12 V (Eight UM-1 Batteries)
Battery; 3 V (Two UM-3 Batteries) for
Battery Back-up

Power Consumption: 30 W (AC only)

Power Output: 20 W (10 W x 2) ... PMPO

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

Jacks: Input; CD/LINE IN; 316 mV, 47 kΩ
Output; HEADPHONES; 32Ω, ø3.5

Dimensions: 566 (W) x 156 (H) x 167 (D) mm

Weight: 3.7 kg without batteries

Radio Section:

Radio Frequency Range: FM; 87.5 ~ 108 MHz
MW; 522 ~ 1602 kHz
LW; 144 ~ 288 kHz

Intermediate Frequency: FM; 10.7 MHz
AM; 459 kHz

Sensitivity: FM; 6.3 μV/50 mW output
MW; 79 μV/m/50 mW output
LW; 125 μV/50 mW output

Tape Deck Section: TAPE 1
Frequency Response: 80 ~ 10,000 Hz
Tape Speed: 4.8 cm/s
Track System: 4-track 2-channel stereo playback

Tape Deck Section: TAPE 2
Frequency Response: 80 ~ 10,000 Hz
Tape Speed: 4.8 cm/s
Recording System: AC bias, Magnet erase
Track System: 4-track 2-channel stereo recording and playback

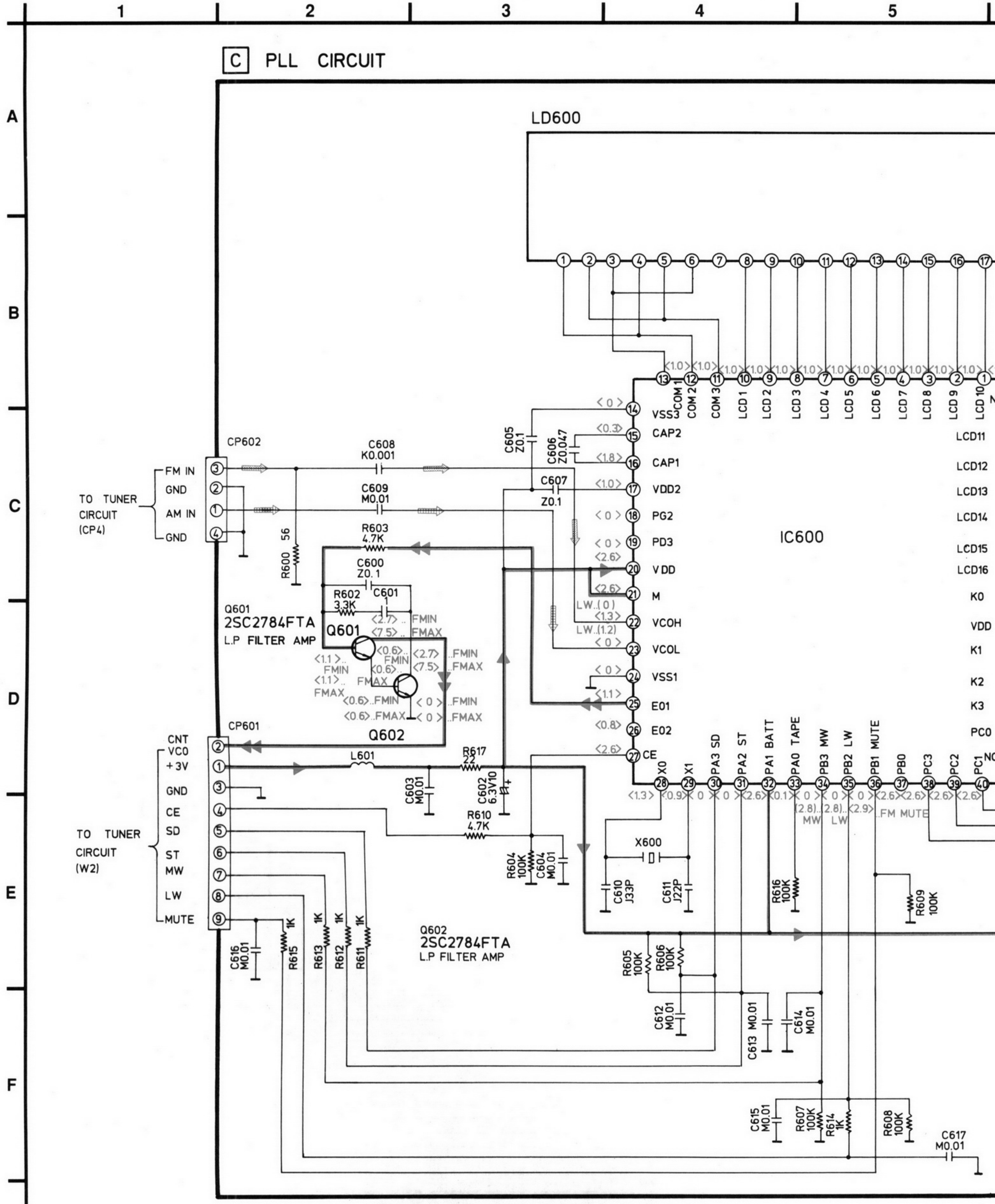
Notes:

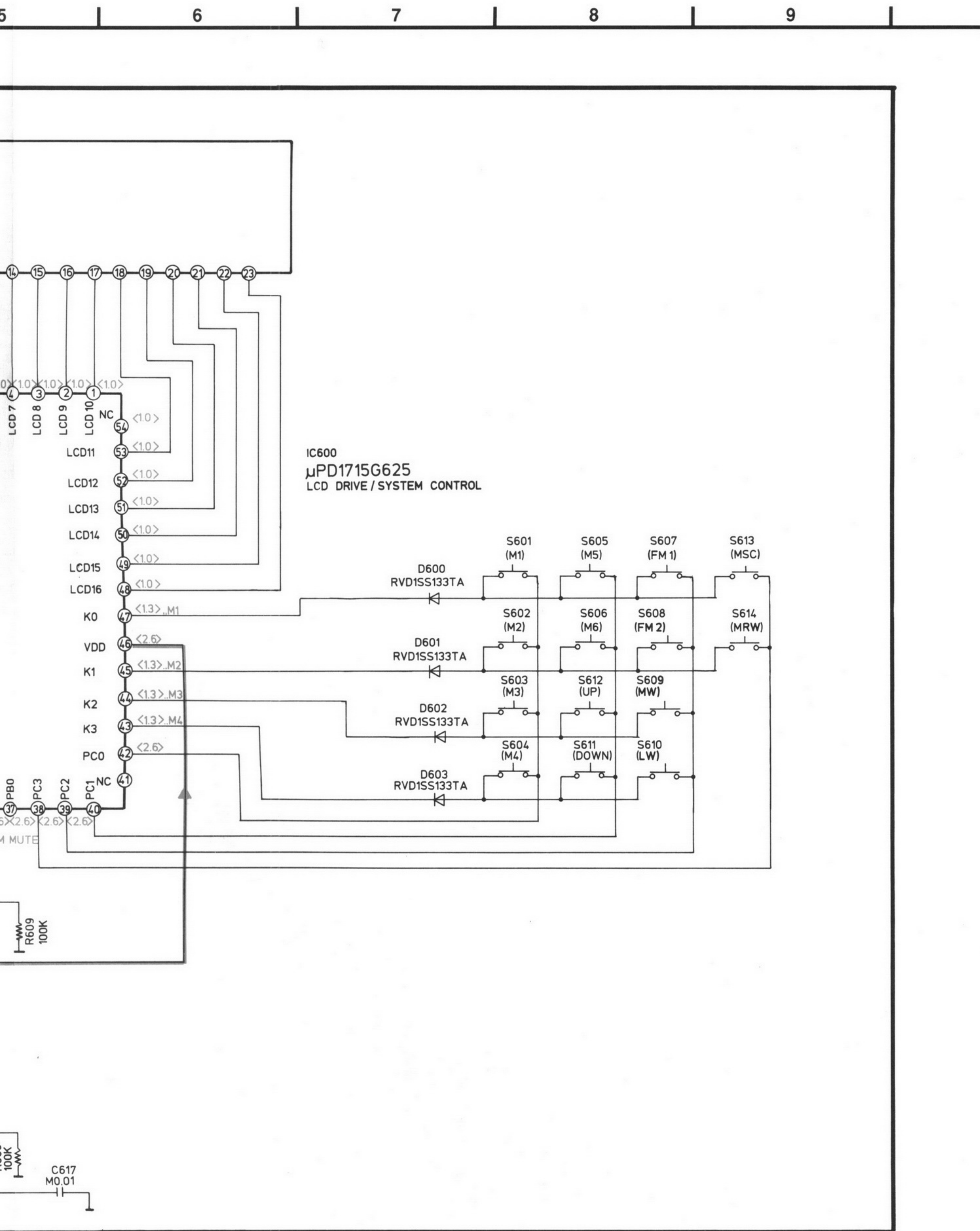
- Weights and dimensions shown are approximate.
- Design and specifications are subject to change without notice.

Panasonic

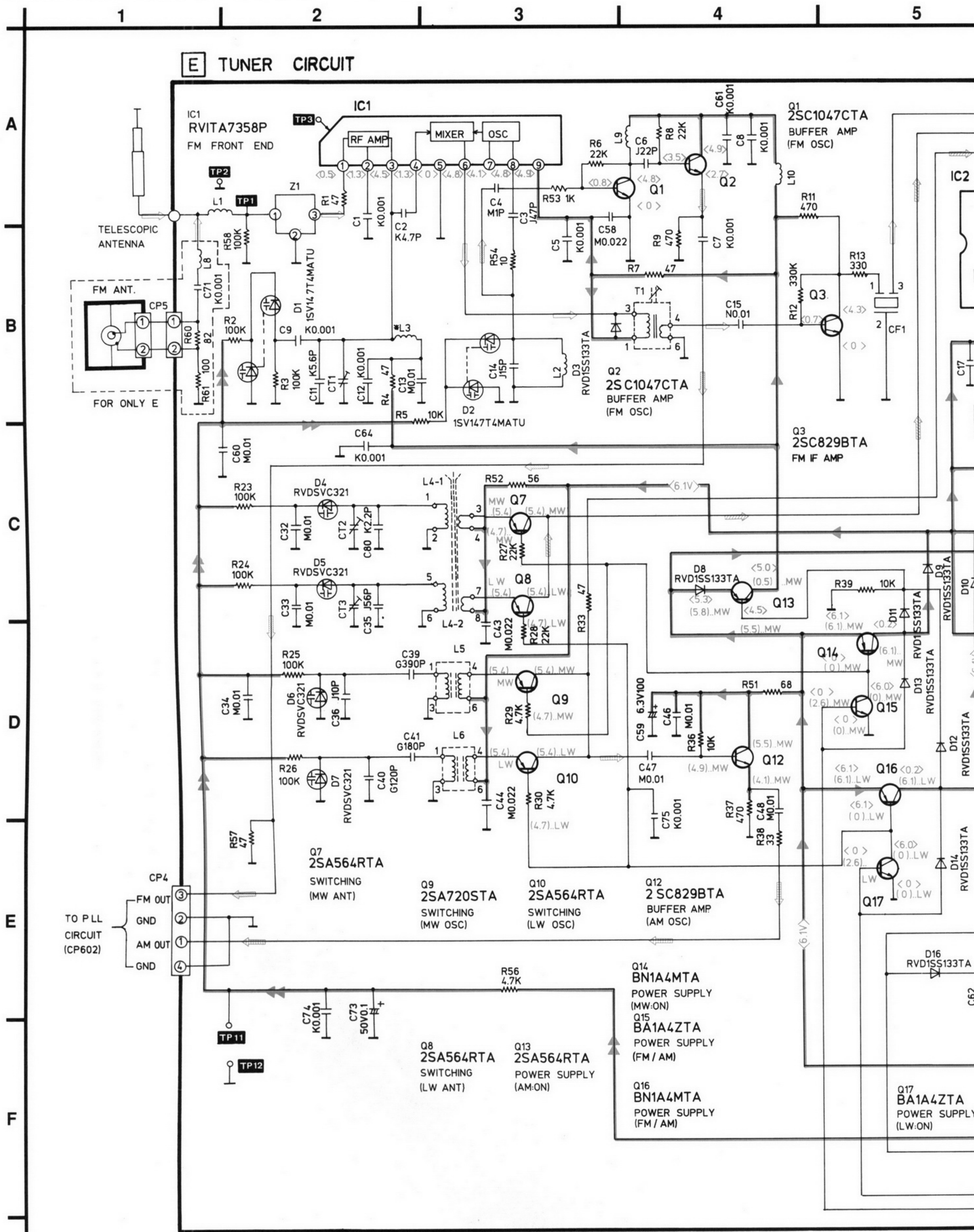
Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

SCHEMATIC DIAGRAM • PLL CIRCUIT

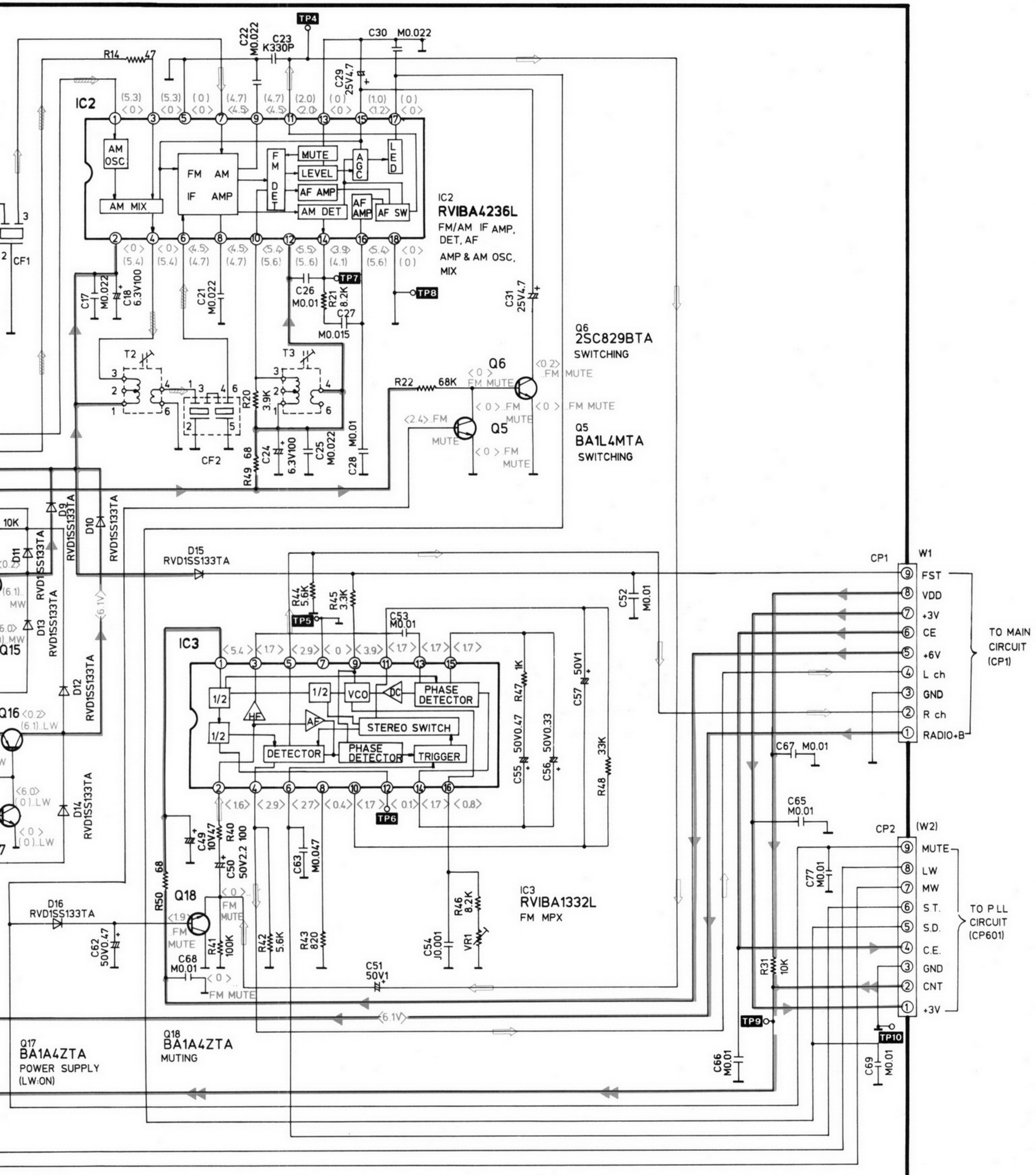




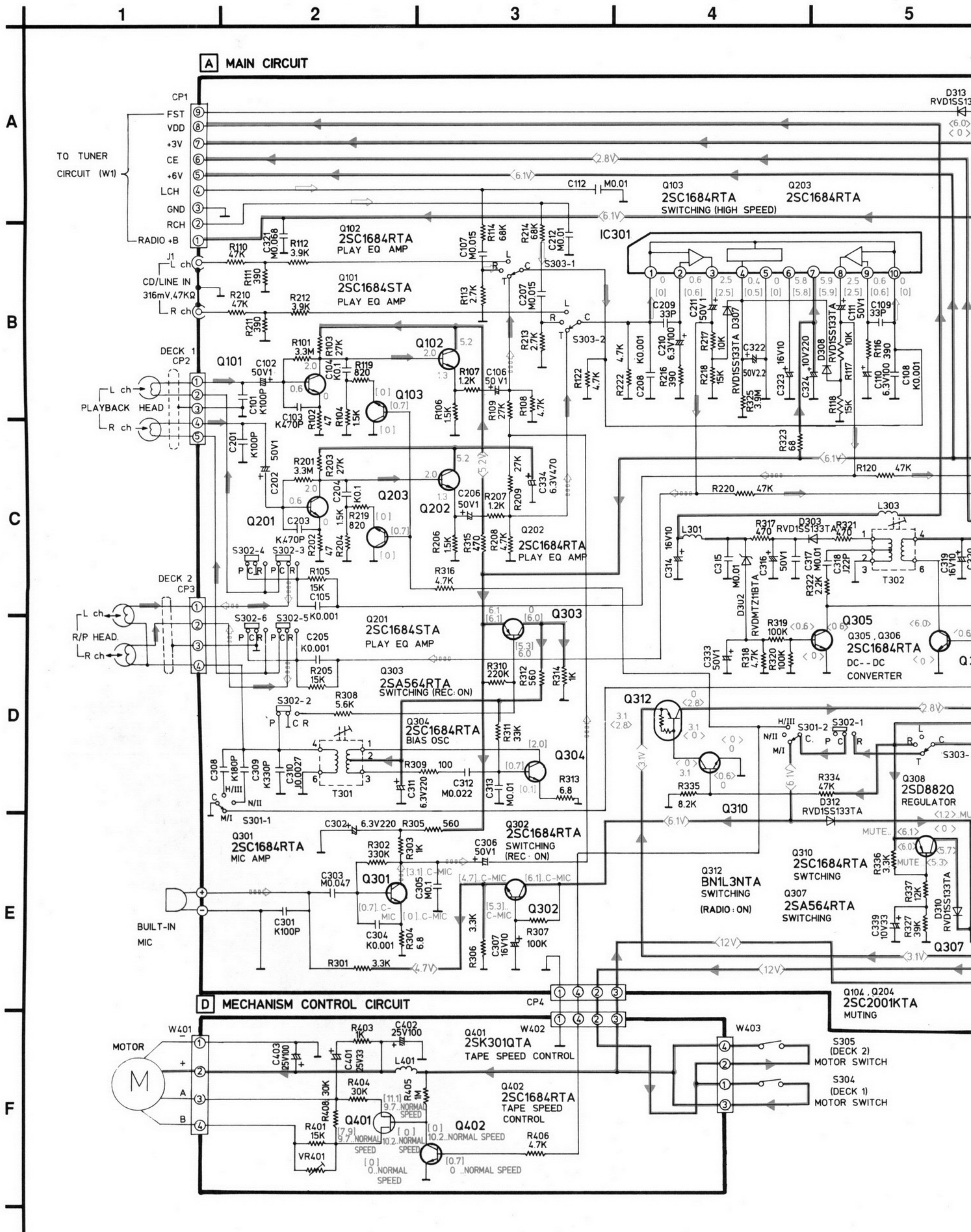
SCHEMATIC DIAGRAM • TUNER CIRCUIT



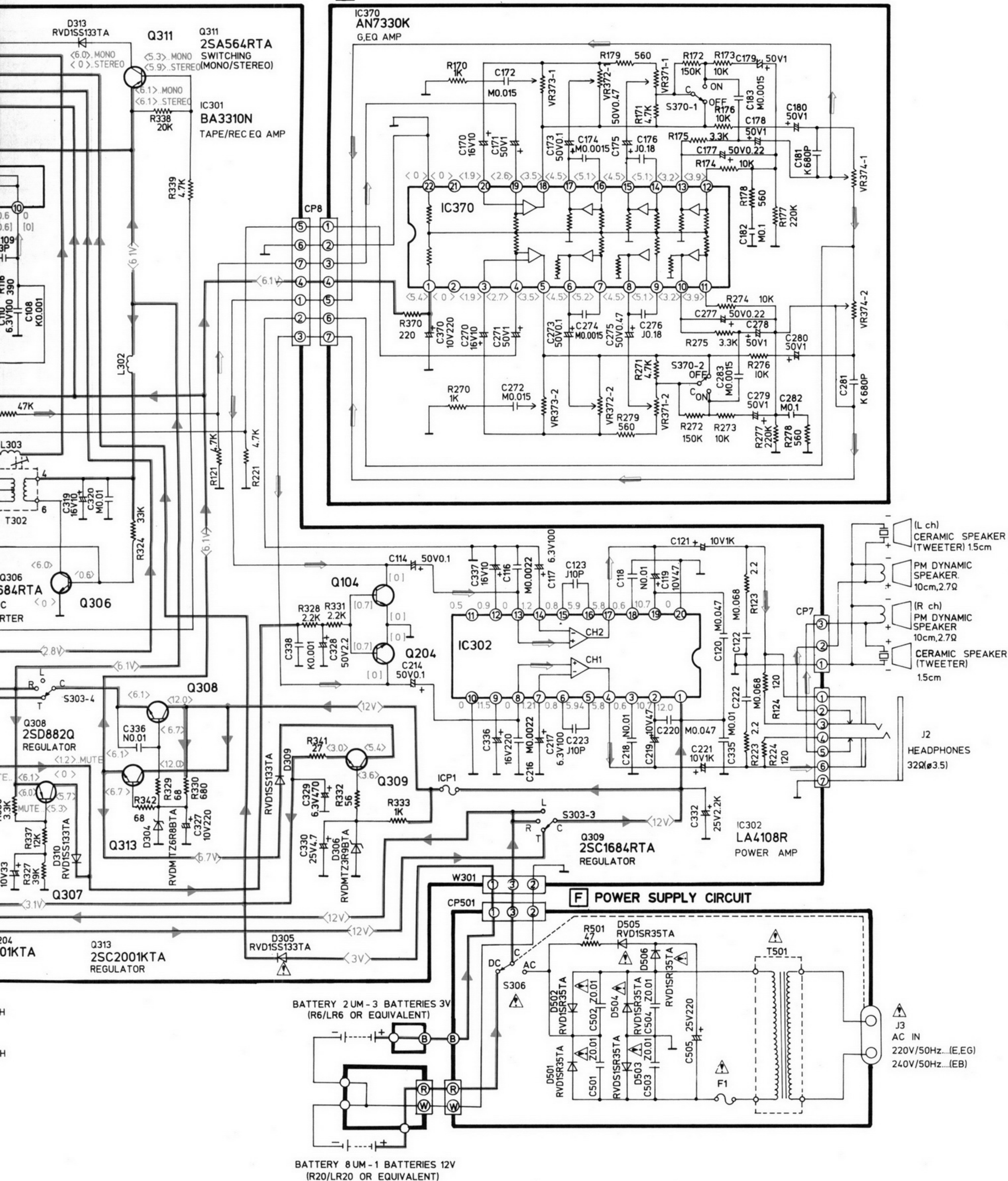
5 | 6 | 7 | 8 | 9



SCHEMATIC DIAGRAM • MAIN CIRCUIT



B GRAPHIC EQUALIZER CIRCUIT



For Tuner Circuit

Notes:

1. VR1 : FM VCO adjustment VR.
2. DC voltage measurements are taken with electronic voltmeter. The negative terminal of the battery provides negative meter connection point.
< >... FM, ()... MW/LW
3. 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.





-  ... FM SIGNAL LINE
-  ... + B LINE
-  ... FM OSC SIGNAL LINE
-  ... FM/AM Vcap CONTROL LINE
-  ... AM OSC SIGNAL LINE
-  ... MW/LW SIGNAL LINE

For PLL Circuit

Notes:


1. S601 Memory channel switch. (M1)
2. S602 Memory channel switch. (M2)
3. S603 Memory channel switch. (M3)
4. S604 Memory channel switch. (M4)
5. S605 Memory channel switch. (M5)
6. S606 Memory channel switch. (M6)
7. S607 FM 1 band switch.
8. S608 FM 2 band switch.
9. S609 MW band switch.
10. S610 LW band switch.
11. S611 Manual/ Auto Scan tuning switch. (-)
12. S612 Manual/Auto Scan tuning switch. (+)
13. S613 Memory Scan switch.
14. S614 Memory Switch.
15. DC voltage measurements are taken with electronic voltmeter. The negative terminal of the battery provides negative meter connection point.
< >... FM, ()... MW/LW

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

-  ... AM OSC SIGNAL LINE
-  ... FM OSC SIGNAL LINE
-  ... +B LINE
-  ... FM/AM Vcap CONTROL LINE

For MAIN, GEQ, MECHANISM, POWER SUPPLY

Notes:

1. S301-1, S301-2: Editing/FM mode/Beat proof switch in "MIC/MONO/I" position.
(M/I... MIC/MONO/I, N/I... NORMAL/STEREO/II, H/III... HIGH/STEREO/III)
2. S302-1 ~ S302-6: Record/Playback switch in "PLAYBACK" position.
(P... PLAYBACK, R... RECORD)
3. S303-1 ~ S303-3: Function selector switch in "TAPE/POWER OFF" position.
(T... TAPE/POWER OFF, R... RADIO, L... CD/LINE IN)
4. S304: Deck 1 motor switch
5. S305: Deck 2 motor switch
6. S306: AC/DC select switch in "DC" position.
7. S370 : XBS Switch in "OFF" position.
8. VR371-1, VR371-2: Graphic equalizer control VR. (100 Hz)
9. VR372-1, VR372-2: Graphic equalizer control VR. (1 kHz)
10. VR373-1, VR373-2: Graphic equalizer control VR. (10 kHz)
11. VR374-1, VR374-2: Volume control VR.
12. VR401: Tape Speed VR.
13. DC voltage measurements are taken with electronic voltmeter. The negative terminal of the battery provides negative meter connection point.
No mark... PLAYBACK, < >... FM, []... RECORD
14. Battery Current: Vol. min 201mA (FM Radio)
140 mA (AM Radio)
192 mA (Tape Playback)
86 mA (CD/LINE)
Vol. max 640 mA (FM Radio)
680 mA (AM Radio)
900 mA (Tape Playback)
930 mA (Record)
780 mA (CD/LINE)
Measurement instruction
Radio: FM 60dB, 30% Mod.
AM 74dB/m. 30% Mod.
Tape: 315 Hz, 0dB
15. Important safety notice
Components identified by  mark have special characteristics important safety. When replacing any of these components, use only manufacturer's specified parts.
16. 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.

-  ... FM SIGNAL LINE
-  ... RECORD SIGNAL LINE
-  ... + B LINE
-  ... PLAYBACK SIGNAL LINE
-  ... PLAYBACK/FM SIGNAL LINE