

Service Manual

Radio

FM-MW-LW-SW1~6
9-Band Receiver

RF-B20L
(Black)



This is the Service Manual for the following areas.

Z...For all European areas except United Kingdom.

E...For United Kingdom.

■ SPECIFICATIONS

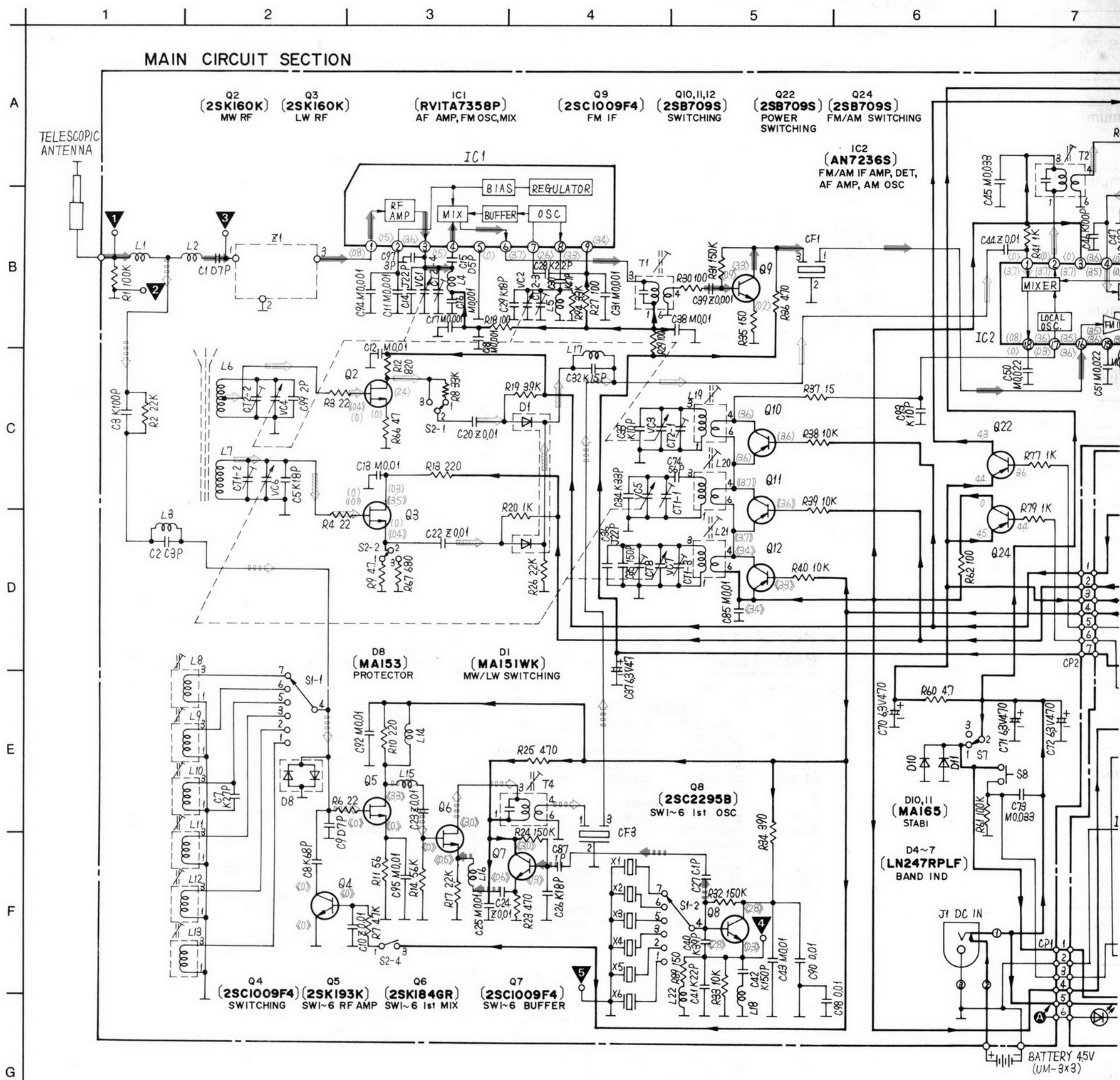
Frequency Range:	FM; 87.5~108 MHz MW; 520~1610 kHz LW; 150~285 kHz SW1; 5.95~6.20 MHz (49 m) SW2; 7.10~7.30 MHz (41 m) SW3; 9.50~9.90 MHz (31 m) SW4; 11.65~12.05 MHz (25 m) SW5; 15.10~15.60 MHz (19 m) SW6; 17.55~17.90 MHz (16 m)	Power Requirement:	Battery; 4.5 V (Three UM-3, "AA" size batteries) (Panasonic UM-3 or equivalent) AC; with optional AC adaptor RP-AC4 400 mW (max.)
Intermediate Frequency:	FM; 10.7 MHz AM (MW, LW, SW); 455 kHz	Power Output:	6.5 cm PM Dynamic Speaker (8Ω)
Sensitivity:	462 kHz (For U.K.) FM; 2μV/50 mW output (-3 dB, Limit Sens) MW; 100 μV/m/50 mW output LW; 126 μV/m/50 mW output SW1; 1.8 μV/50 mW output SW2; 1.3 μV/50 mW output SW3; 1.4 μV/50 mW output SW4; 1.3 μV/50 mW output SW5; 1.3 μV/50 mW output SW6; 1.4 μV/50 mW output	Speaker:	Earphone; 8Ω, Ø3.5
		Impedance:	[173 (W)×92 (H)×29 (D)] mm
		Dimensions:	320 g without batteries
		Weight:	

Design and specifications are subject to change without notice.

Panasonic

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SCHEMATIC DIAGRAM



Notes:

- 1. S1-1, S1-2: SW1~6 Band switch in "SW1" position. (1...SW6, 2...SW5, 3...SW4, 5...SW3, 6...SW2, 7...SW1)
- 2. S2-1~S2-4: DX-Local Sensitivity Switch in "Local" position. (1...Local, 3...DX)
- 3. S3: FM Band switch in "OFF" position.
- 4. S4: MW Band switch in "OFF" position.
- 5. S5: LW Band switch in "OFF" position.
- 6. S6: SW Band switch in "OFF" position.

- 7. S7: Hold Switch in "OFF" position. (1...OFF, 3...ON)
- 8. S8: Power OFF switch.
- 9. VR1: Tone control VR.
- 10. VR2: Volume control VR.
- 11. The mark (▼) shows test point e.g. ▼ = test point 1.
- 12. DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
 < > ...FM position, () ...MW position
 (()) ...LW position, << >> ...SW position
 No mark...FM/MW/LW/SW position

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13. Battery current: No signal 35 mA
 Maximum output 139 mA

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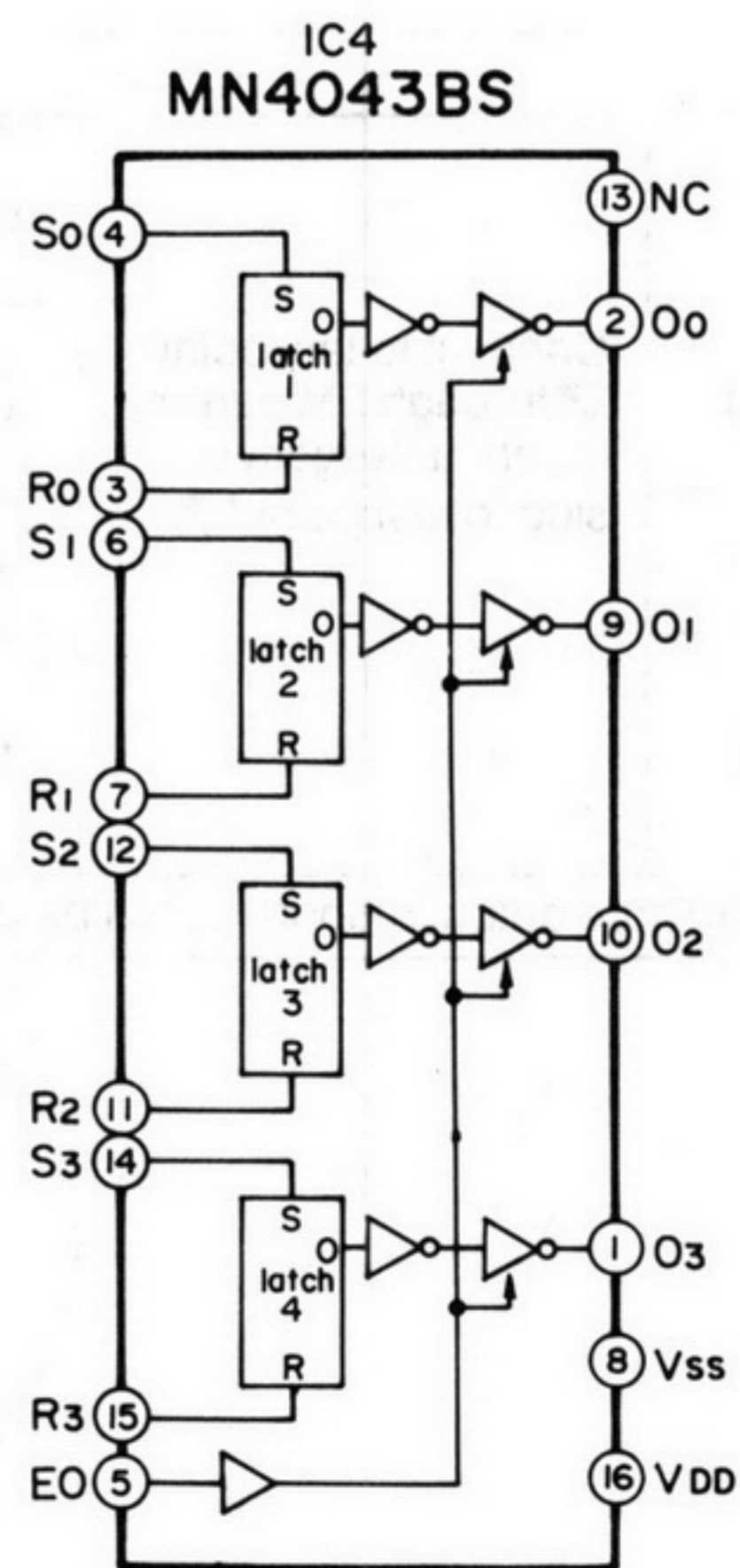
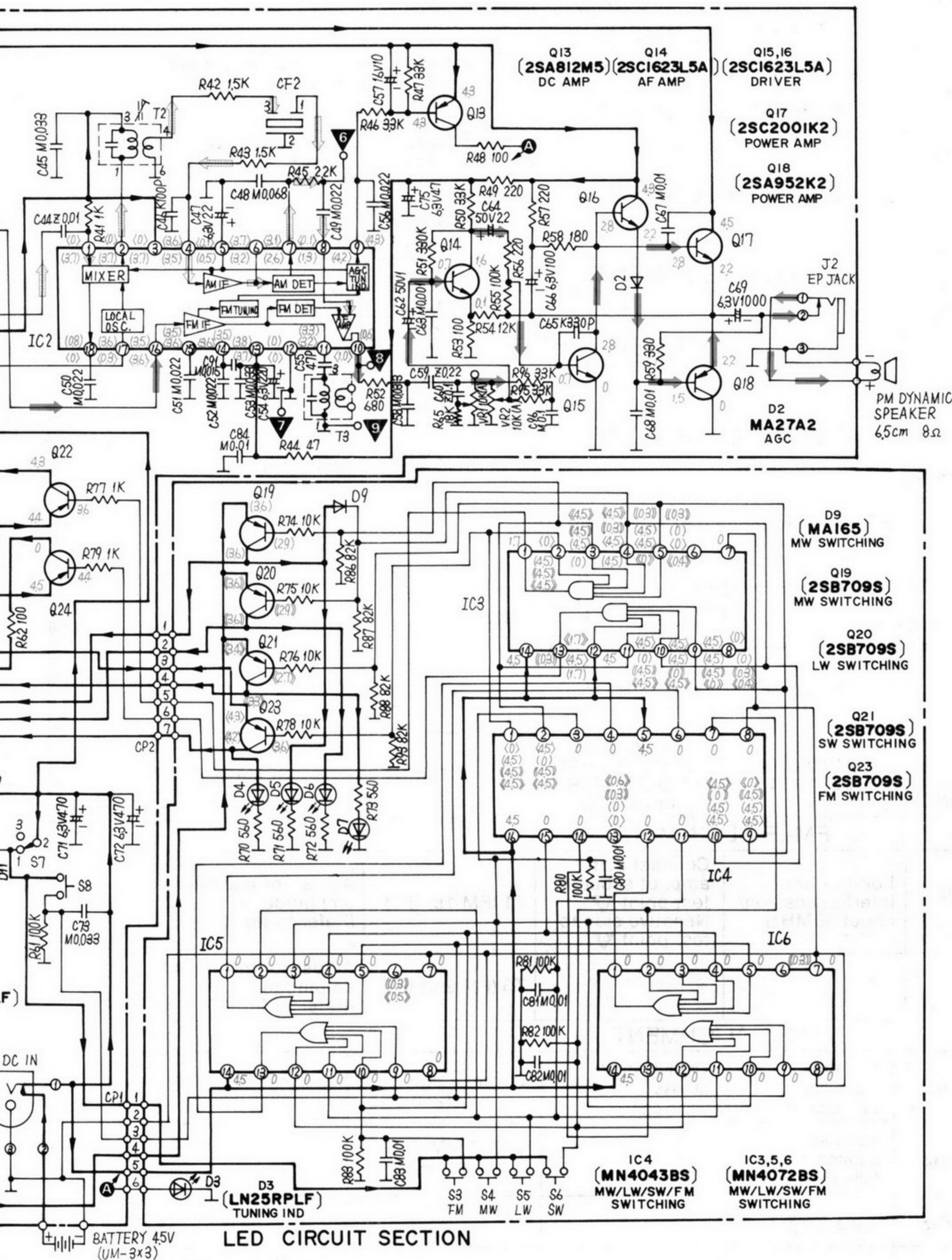
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•Described in schematic diagram are two types of numbers; the supply parts number and production parts number for transistors and diodes. One type number is used for supply parts number and production parts number which they are identical.

e.g. Q1
 2SC2412NRTB, LN25RPLF ← Production parts number
 [2SC2412] ← Supply parts number

•The supply parts number is described alone in the replacement parts list.



..... 35 mA
 ... 139 mA