

AM/FM STEREO RECEIVER

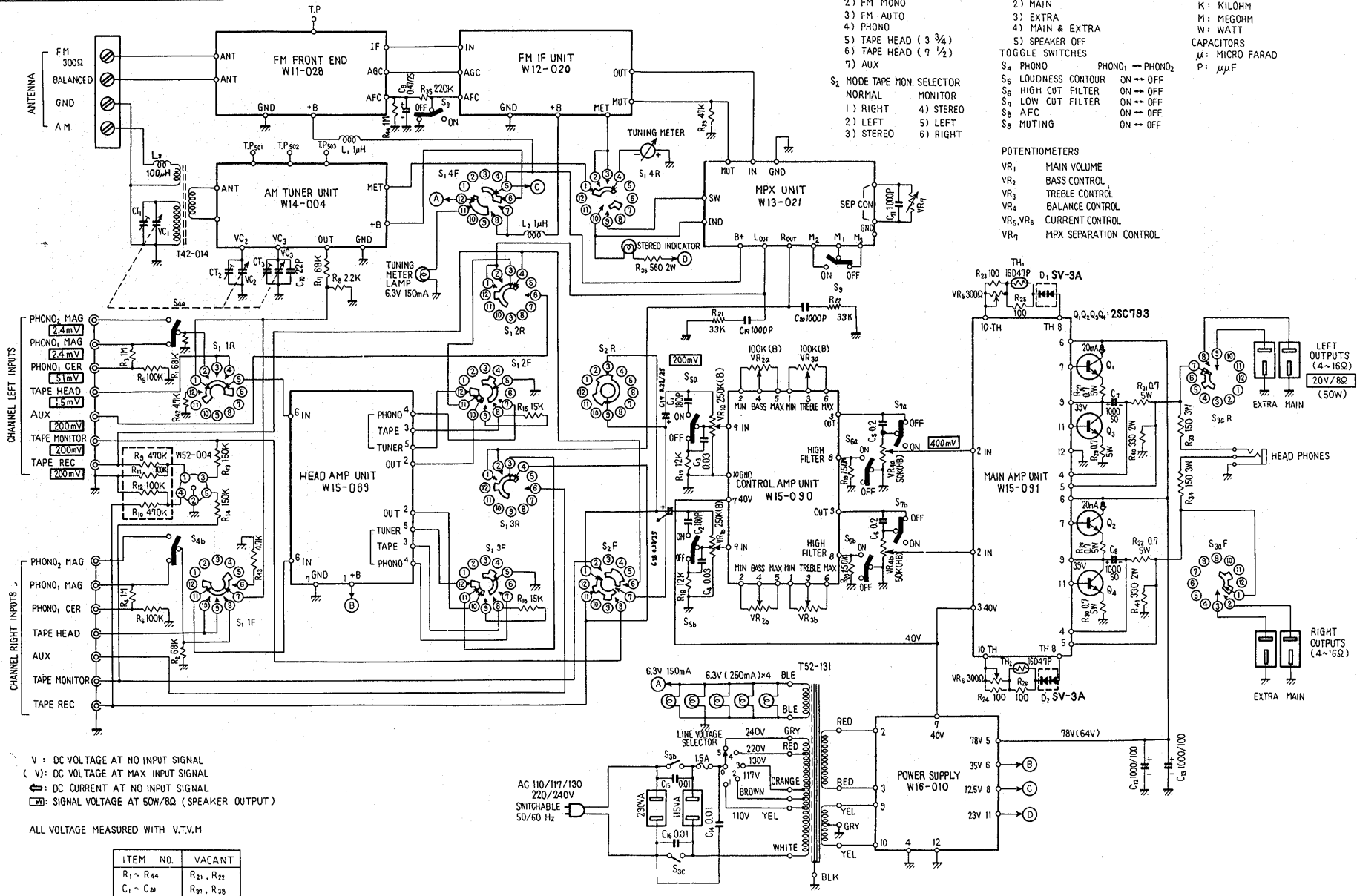
SX-1000TW

UNIT	ROUND LABEL	FW					
FM FRONT END		W11-028					
FM IF UNIT		W12-020					
MPX UNIT		W13-021					
AM TUNER UNIT		W14-004					
MUTING UNIT							
HEAD AMP UNIT		W15-089					
CONTROL AMP UNIT		W15-090					
MAIN AMP UNIT		W15-091					
POWER SUPPLY UNIT		W16-010					
SWITCH UNIT							
SWITCH UNIT							
SWITCH UNIT							
TONE COLOR UNIT							
CONTROL UNIT							
MIC AMP UNIT							
REVERBE AMP UNIT							
REVERBE UNIT							



SX-1000TW

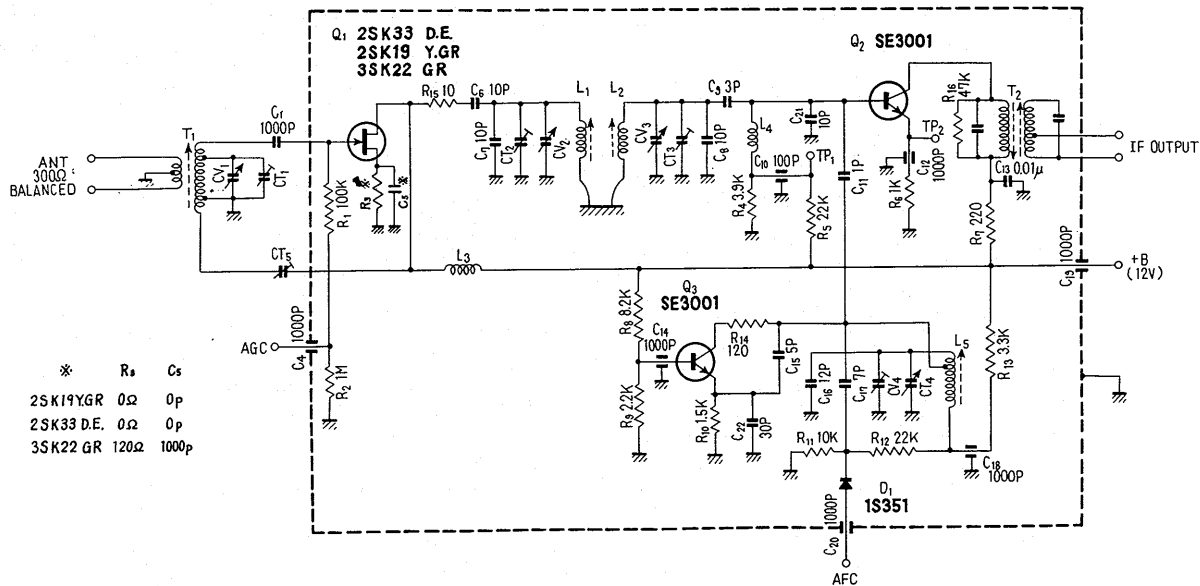
Model SX-1000TW



FM FRONT END

FM FRONT END

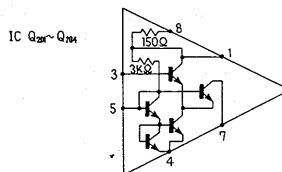
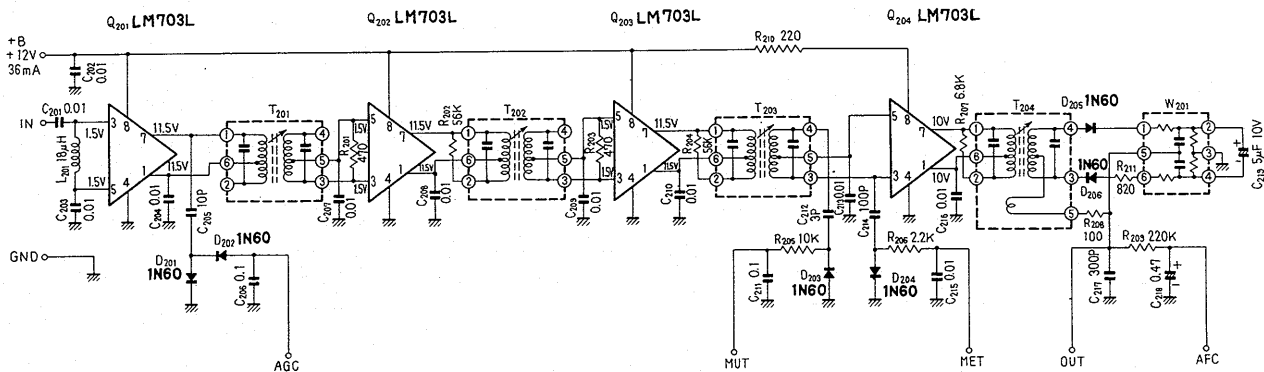
W11-028



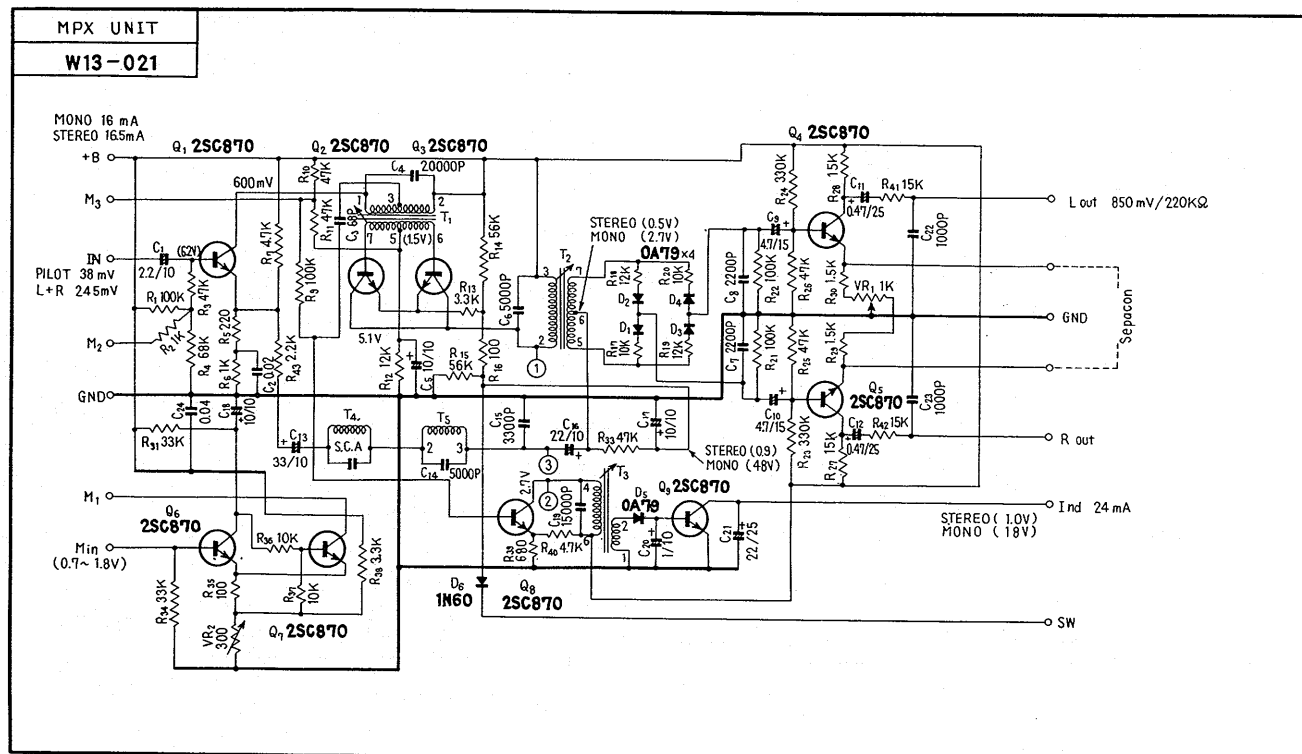
FM IF UNIT

FM IF UNIT

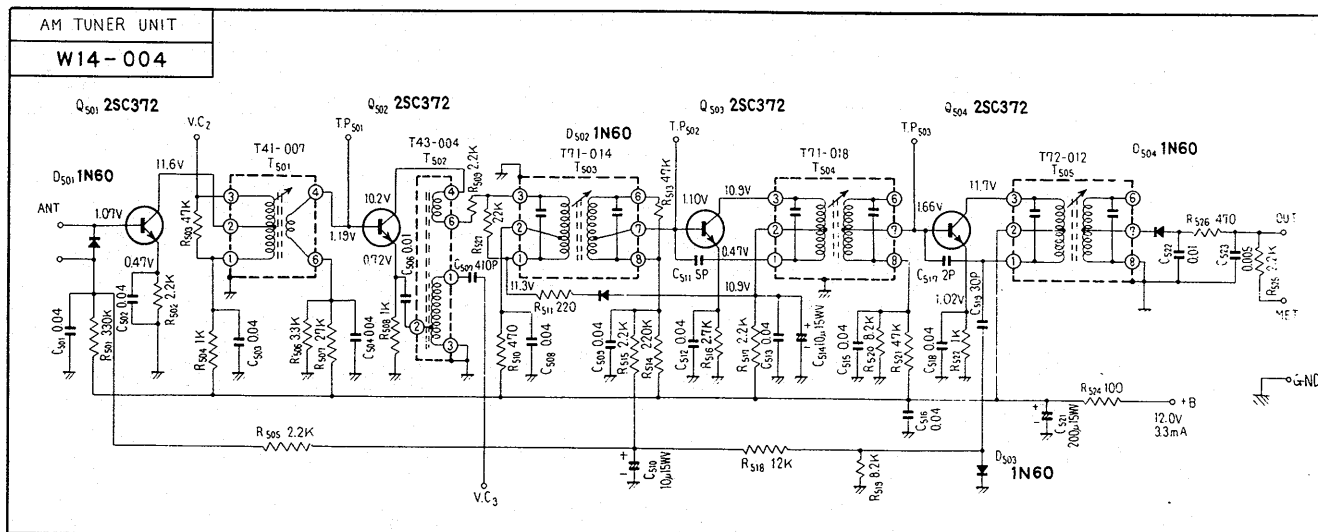
W12-020



MPX UNIT



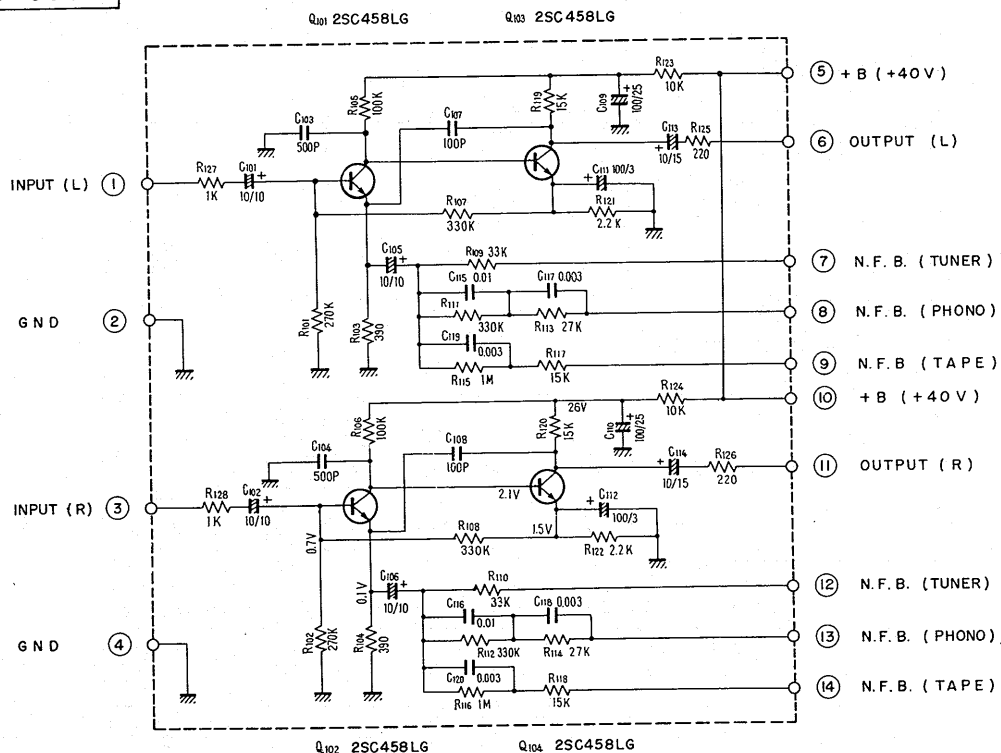
AM TUNER UNIT



HEAD AMP UNIT

HEAD AMP UNIT

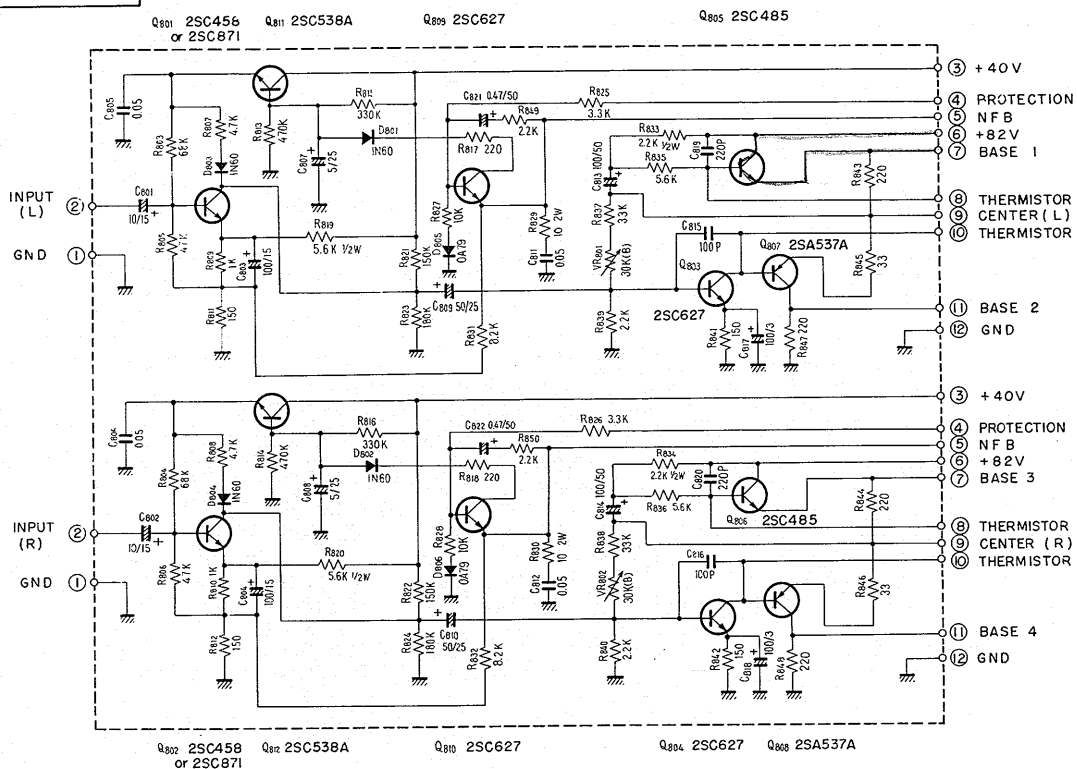
W15-089



MAIN AMP UNIT

MAIN AMP UNIT

W15-091



CONTROL AMP UNIT

W15 - 090

The schematic diagram illustrates a Control Amp Unit (W15-090) with two identical channels. Each channel is composed of the following components and stages:

- Input Stage:** A 2SC871 transistor (Q₁ and Q₂) with a base resistor R₁ (300K) and a collector resistor R₂ (300K). The base is biased by a voltage divider (R₃ 33K, R₄ 8.2K) and a coupling capacitor C₁ (0.047/25). The emitter is connected to ground (GND) through a resistor R₅ (1K).
- Phase Inverter Stage:** A 2SC870 transistor (Q₃ and Q₄) with a base resistor R₆ (330K) and a collector resistor R₇ (300K). The base is biased by a voltage divider (R₈ 47K, R₉ 15K) and a coupling capacitor C₂ (0.0047). The emitter is connected to ground (GND) through a resistor R₁₀ (330).
- High Cut Filter:** A high cut filter (HCF) is connected between the collector of the input transistor and the base of the output transistor. It consists of a resistor R₁₁ (18K) and a capacitor C₃ (0.0047).
- Output Stage:** The output of the phase inverter is connected to the output terminal (OUT) through a resistor R₁₂ (4.7K). The output is also connected to a load resistor R₁₃ (4.7K) and a coupling capacitor C₄ (0.033).
- Biasing and Timing:** Various resistors (R₁₄ 6.8K, R₁₅ 6.8K, R₁₆ 1K, R₁₇ 47K, R₁₈ 15K, R₁₉ 33K, R₂₀ 10K, R₂₁ 2.2K, R₂₂ 2.2K, R₂₃ 10K, R₂₄ 4.7K, R₂₅ 18K, R₂₆ 18K, R₂₇ 18K, R₂₈ 18K, R₂₉ 18K, R₃₀ 18K, R₃₁ 18K, R₃₂ 18K, R₃₃ 18K, R₃₄ 18K) and capacitors (C₅ 0.0047, C₆ 0.0047, C₇ 0.0047, C₈ 0.0047, C₉ 0.0047, C₁₀ 0.0047, C₁₁ 0.0047, C₁₂ 0.0047, C₁₃ 0.0047, C₁₄ 0.0047, C₁₅ 0.0047, C₁₆ 0.0047) are used for biasing and timing.