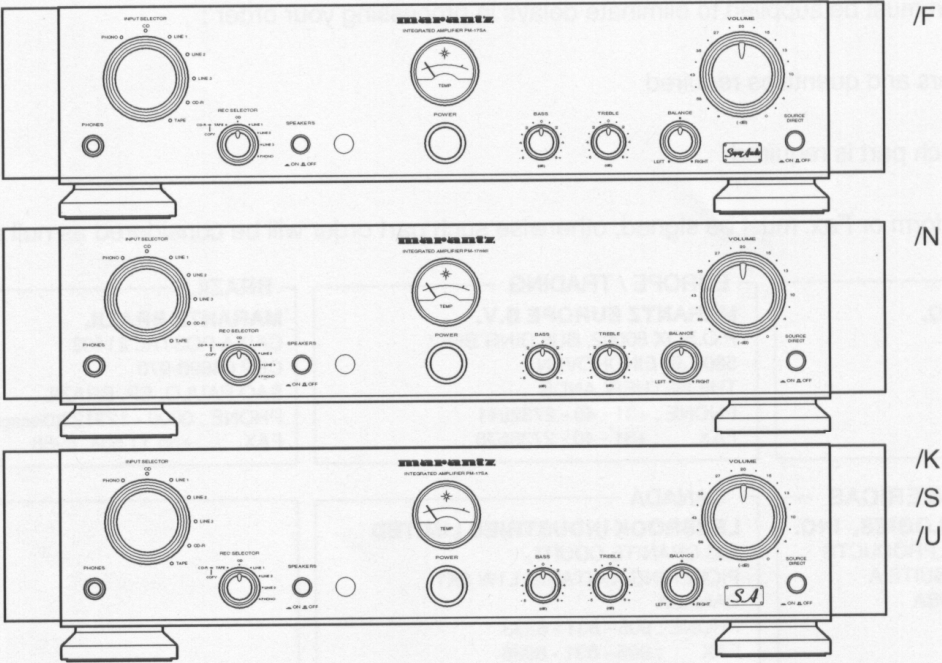


# Service Manual

## PM17A /F1N, /K1G, /N1G, /S1G /N1B, /U1B Integrated amplifier



PM-17SA / mkII

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Please use this service manual with referring to the user guide ( D.F.U. ) without fail.  
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

# marantz®

## PM-17SA / PM-17mkII

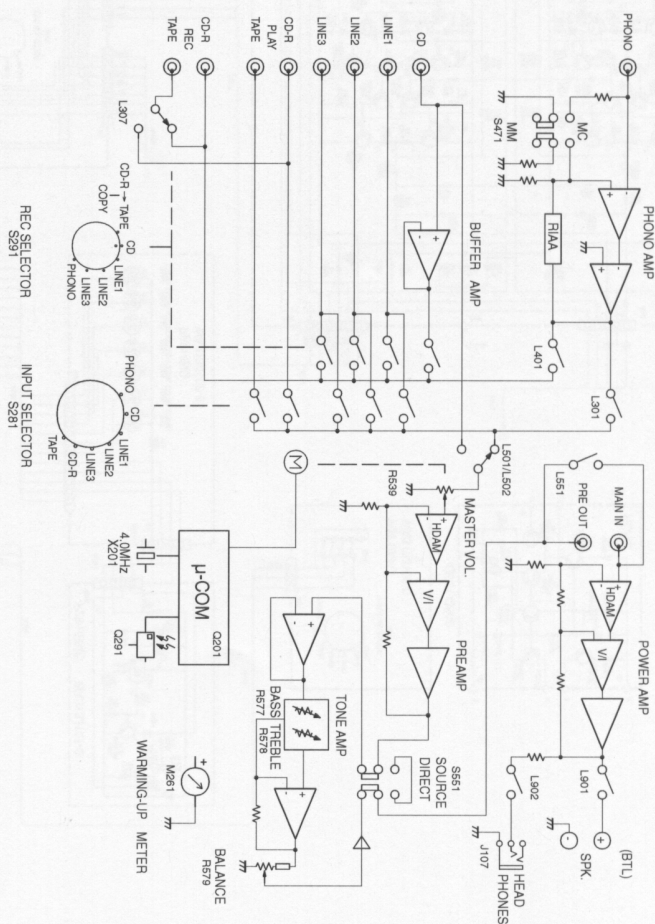
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## 1. TECHNICAL SPECIFICATIONS

|                                                                         |                                                                                         |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Rated power output (20 Hz to 20 kHz, 2CH simultaneous drive)            | 60 W x 2 (8 $\Omega$ load)<br>80 W x 2 (6 $\Omega$ load)<br>100 W x 2 (4 $\Omega$ load) |
| Total harmonic distortion (20 Hz to 20 kHz, 2CH drive, 8 $\Omega$ load) | 0.01 %                                                                                  |
| Cross-modulation distortion (SMPTE)                                     | 0.01 %                                                                                  |
| Output bandwidth (8 $\Omega$ load, 0.04 %)                              | 10 Hz to 50 kHz                                                                         |
| Frequency response (CD, SOURCE DIRECT)                                  | 5 Hz to 70 kHz, +0/-1 dB                                                                |
| Damping factor (8 $\Omega$ load, 20 Hz to 20 kHz)                       | 100                                                                                     |
| Input sensitivity/input impedance                                       |                                                                                         |
| PHONE (MC)                                                              | 230 $\mu$ V/100 $\Omega$                                                                |
| PHONE (MM)                                                              | 2.5 mV/47 k $\Omega$                                                                    |
| HIGH LEVEL                                                              | 220 mV/22 k $\Omega$                                                                    |
| MAIN IN                                                                 | 1.6 V/22 k $\Omega$                                                                     |
| Output voltage/output impedance                                         |                                                                                         |
| PRE OUT                                                                 | 1.6 V/250 $\Omega$                                                                      |
| Maximum allowable PHONE input (1 kHz)                                   |                                                                                         |
| MC                                                                      | 15 mV                                                                                   |
| MM                                                                      | 150 mV                                                                                  |
| RMA deviation (20 Hz to 20 kHz)                                         | $\pm 0.2$ dB                                                                            |
| S/N (1HF A network, input shorted)                                      | 76 dB                                                                                   |
| PHONE (MC)                                                              | 90 dB                                                                                   |
| PHONE (MM)                                                              | 112 dB                                                                                  |
| HIGH LEVEL                                                              | $\pm 8$ dB                                                                              |
| Tone control                                                            |                                                                                         |
| BASS (100 Hz)                                                           | $\pm 8$ dB                                                                              |
| TREBLE (10 kHz)                                                         | $\pm 8$ dB                                                                              |
| Supply voltage                                                          |                                                                                         |
| F version                                                               | 100 V AC, 50/60 Hz                                                                      |
| K/1 version                                                             | 110 V/220 V AC, 50/60 Hz                                                                |
| N/1, /S1 version                                                        | 230 V AC, 50 Hz                                                                         |
| /U1 version                                                             | 120 V AC, 60 Hz                                                                         |
| Power consumption                                                       | 180 W                                                                                   |
| Dimensions (Maximum)                                                    |                                                                                         |
| Width                                                                   | 458 mm                                                                                  |
| Height                                                                  | 110 mm                                                                                  |
| Depth                                                                   | 429 mm                                                                                  |
| Weight                                                                  | 16 kg                                                                                   |
| Accessories                                                             |                                                                                         |
| Remote control unit (RC-17mkII/PM)                                      | x 1                                                                                     |
| Dimensions                                                              |                                                                                         |
| Width                                                                   | 44 mm                                                                                   |
| Height                                                                  | 239 mm                                                                                  |
| Depth                                                                   | 17.5 mm                                                                                 |
| Weight (without batteries)                                              | 189 g                                                                                   |
| SUM-4 (R6, "AA" size) dry cell battery                                  | x 2                                                                                     |

Design and specifications are subject to change without notice.

## 2. BLOCK DIAGRAM



## 3. TEST EQUIPMENT REQUIRED FOR SERVICING

| 項目                       | 使用 方法                                                    |
|--------------------------|----------------------------------------------------------|
| Distortion Analyzer      | 歪曲の測定                                                    |
| 音準計                      | 音の測定                                                     |
| Audio Oscillator         | Sinewave and squarewave signal source                    |
| 低周波発振器                   | 正弦波及び矩形波の信号源                                             |
| AC VTVM                  | Voltage measurements (AC)                                |
| AC VTVM                  | 交流電圧の測定                                                  |
| Oscilloscope             | Waveform analysis and trouble shooting and ASO alignment |
| オシロスコープ                  | 波形状態、トラブルシューティング及びASOの調整                                 |
| DC VTVM                  | Voltage measurements (DC)                                |
| DC VTVM                  | 直流電圧の測定                                                  |
| AC Wattmeter             | Monitors primary power to amplifier                      |
| 交流ワットメーター                | アンプの一次側消費電力のモニター                                         |
| Line Voltmeter           | Monitors potential of primary power to amplifier         |
| 電圧電圧計                    | アンプの一次側消費電力のモニター                                         |
| Variable Autotransformer | Adjust level of primary power to amplifier               |
| スライダック                   | アンプの一次側消費電力の調節                                           |
| Circuit Tester           | Trouble shooting                                         |
| テストター                    | トラブルシューティング                                              |
| Shorting Plug            | Shorts amplifier input to eliminate noise pickup         |
| ショートプラグ                  | 雑音を拾わないようにアンプ入力を短絡する                                     |

# 4. SCHEMATIC DIAGRAM

