



MONOPHONIC SYNTHESIZER SERVICE MANUAL **MS-10**

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


**KEIO ELECTRONIC LABORATORY CORPORATION
TOKYO/JAPAN**

1. SPECIFICATIONS

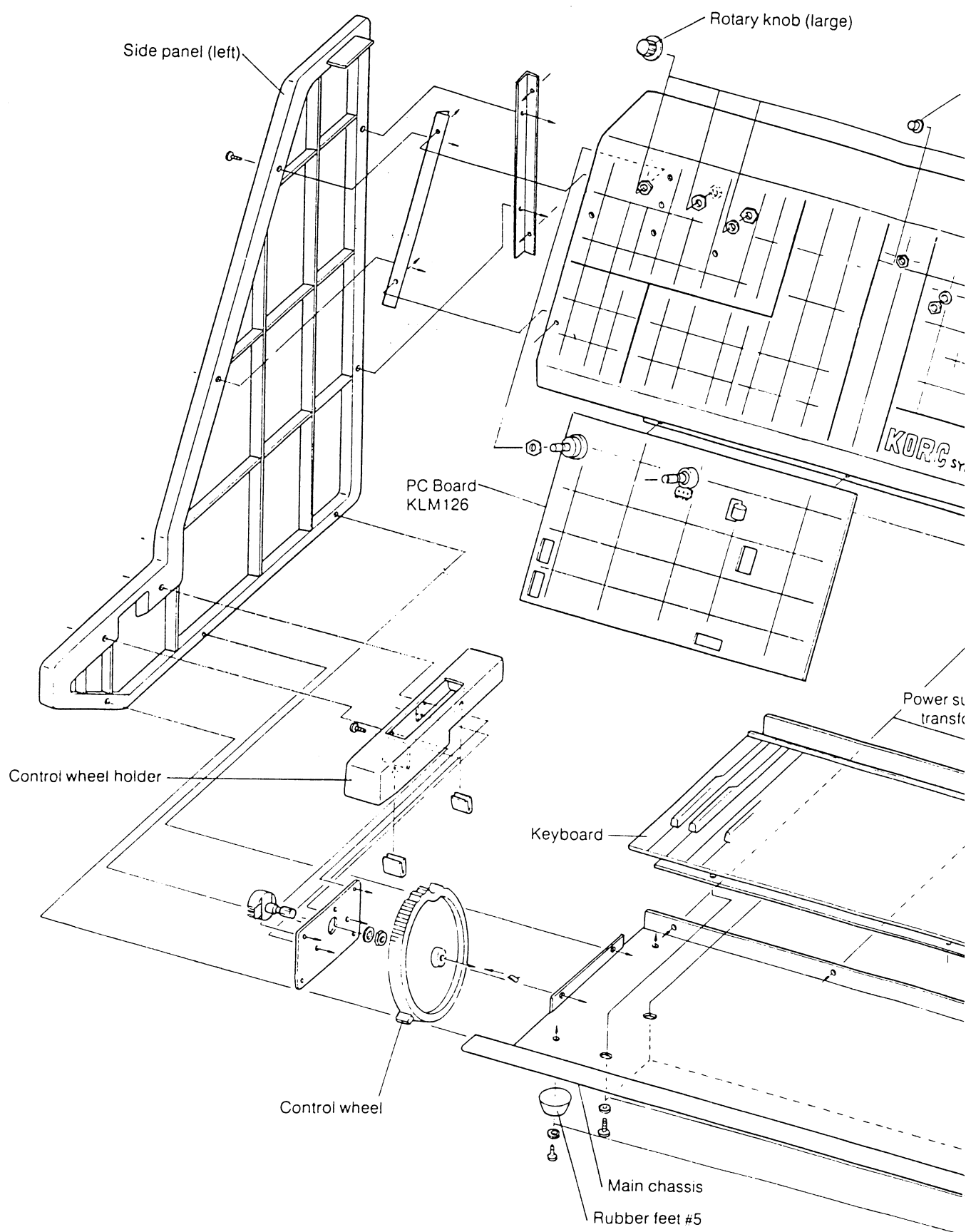
< CONTROL SECTION >

1. Keyboard *F~C 32 Keys/(2-2/3 octaves)
2. Voltage controlled oscillator *Scales [32', 16', 8', 4',,]/ + 6 octaves (FM))
 *Wave form [∧,∩, PW/PWM, Noise)/(4 modes)
 *PW adjust/PWM intensity
 *Pitch [1 OCTAVE OR MORE]
 *portamento
 *Frequency modulation intensity by MG
 *Frequency modulation intensity by EG/EXT
3. Voltage controlled low pass filter *Cut-off frequency
 *Peak [flat ~ self OSC]
 *Cut-off frequency modulation intensity by MG
 *Cut-off frequency modulation intensity by EG/EXT
4. Envelope generator *Hold time
 *Attack time
 *Decay time
 *Sustain level
 *Release time
5. Modulation generator *Wave form ∩-∧-∩ ∩-∩-∩ CONTINUALLY
 *Frequency
6. External input *Signal level adjust
7. Manual controller *Control wheel CENTER CLICK STOP
8. Power, SW Ä volume *Volume

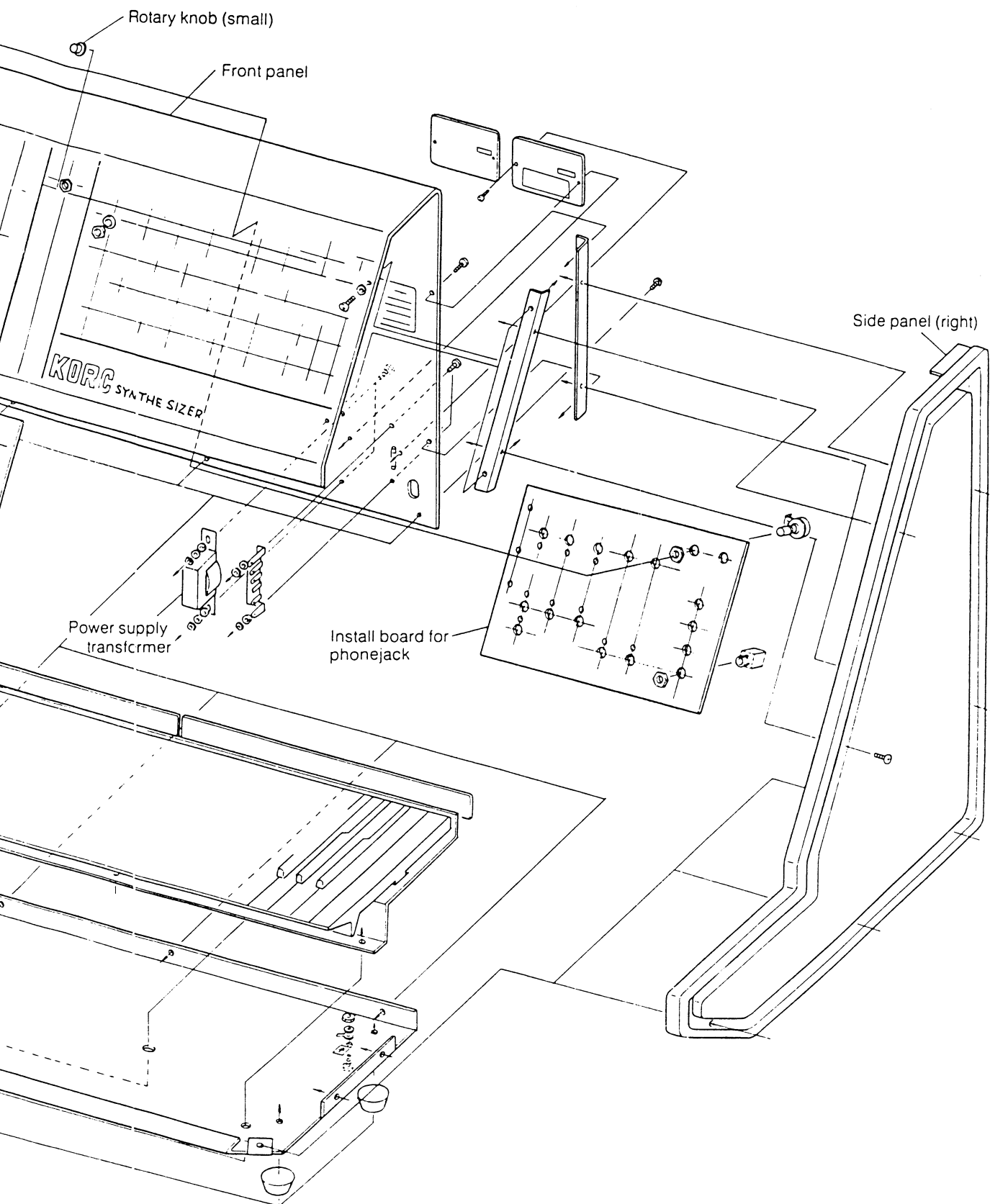
< PATCH PANEL SECTION >

1. Keyboard *Keyboard control voltage output (exponential)/0V ~ + 8V
 *Keyboard trigger output/  GND
 2. VCO *VCO control voltage input (linear response)/0V ~ + 8V
 *External frequency control input (OCT/V)/ - 3V ~ + 3V
 *External pulse width modulation input/ - 5V ~ + 5V
 3. VCF *External signal input/3VPP max.
 *External cut-off frequency control input (2OCT/V)/ - 5V ~ + 5V
 4. VCA *Initial gain control input/0V ~ + 5V
 5. EG *External trigger input/  GND
 *Envelope signal reverse output/ - 5V ~ + 5V
 6. MG *Triangle output (∩-∧-∩)/ 5VPP
 *Rectangle output (∩-∩-∩) / 0  + 5V
 7. Noise generator *Pink noise output, 5VPP
 *White noise output, 5VPP
 8. Manual controller *Control wheel output/ - 5V ~ 0V ~ + 5V
 9. Signal out *Signal output, 2VPP max. (output impedance 3.5kΩ)
 10. Power consumption *5 Watts
- *Dimension *499(W) x 309(D) x 249(H) mm
 *Weight *6.3 kgs
 *Accessories *Patch cord/35 cm x 1

2. STRUCTURAL DIAGRAM

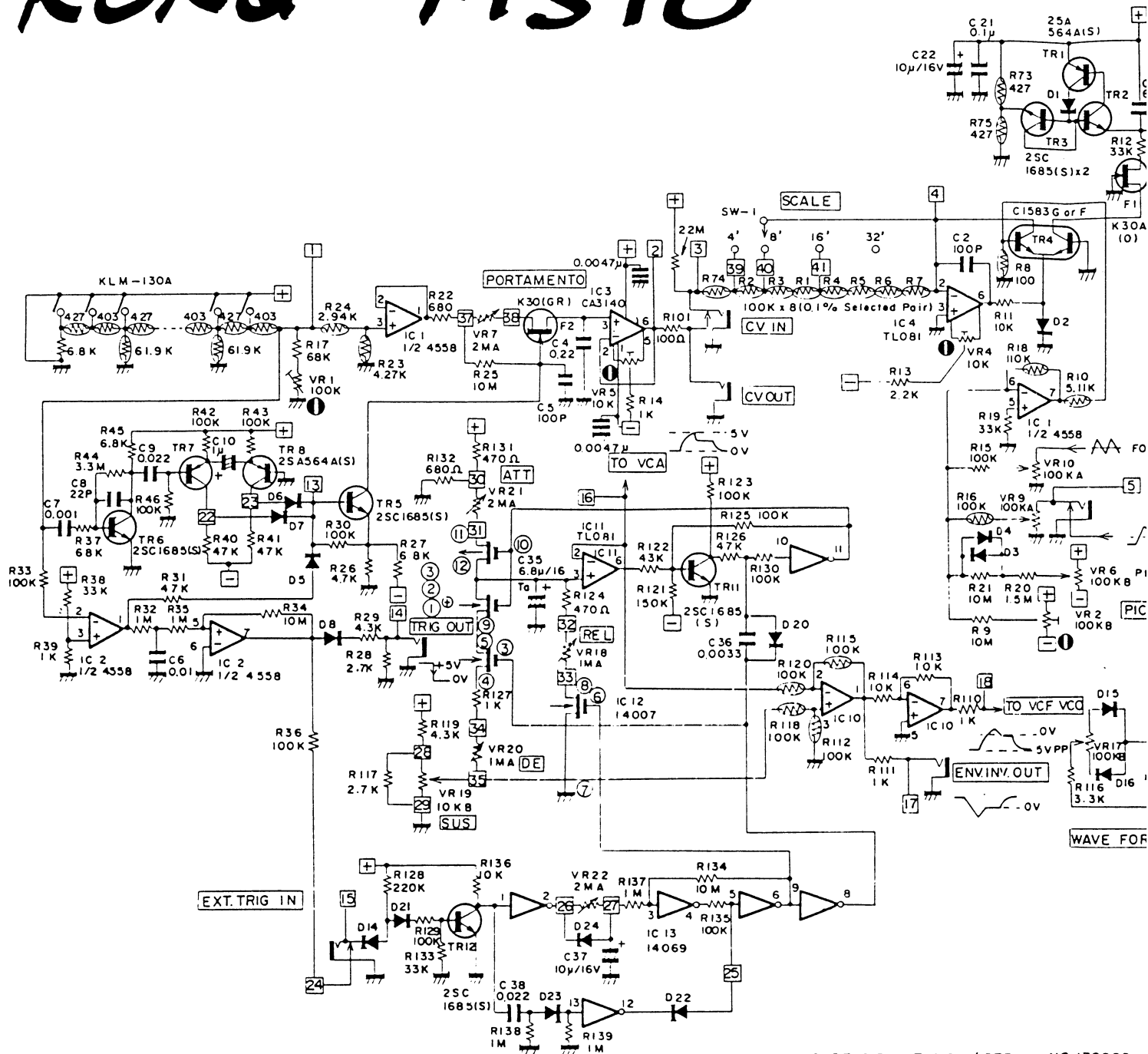


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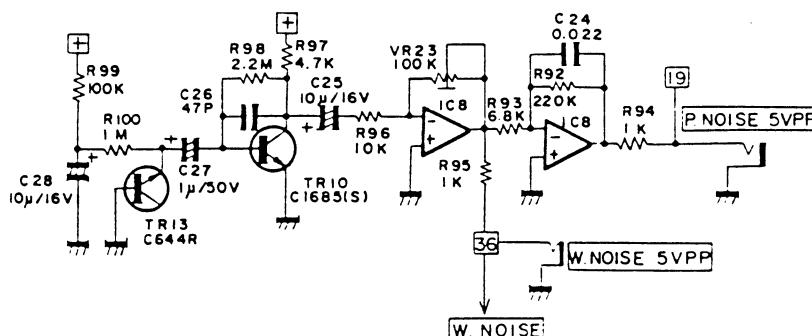


3. CIRCUIT DIAGRAM

KORG MS10



NOISE CIRCUIT NO.2 (SERIAL NO.132828 ~)



NOISE CIRCUIT NO.1 (SERIAL NO.130000 ~)

