

# 7. ADJUSTMENTS

## Conditions

- Power source : 120V ± 2V, 60 Hz  
 Input terminal : Use INPUT 1.  
 Output terminal : Connect the following load resistors to 70V output terminal.

	A-903MK2	A-906MK2	A-912MK2
load resistor	167Ω 200W	83Ω 200W	41Ω 200W
rated power	70V	70V	70V

INPUT 1 volume control: Rotate it fully clockwise (Maximum)

BASS/TREBLE controls: Keep them at middle position

TONE DEFEAT switch : ON

### 1. Adjustment of Distortion in Remote Master Circuit

Connect a distortion meter to output terminal. While applying 1kHz signal to input terminal 1, adjust VR211 on the FRONT PCB so that the distortion ratio becomes 0.05% or less at rated power.

### 2. Adjustment of Idling Current

- \* Rotate BASS/TREBLE controls fully counterclockwise.
- \* The temperature of the amplifier to be adjusted is nearly equal to the ambient temperature of the place.
- \* Connect a DC millivolt meter across both ends of emitter resistor, and observe the indicated value.  
(See Table 1)
- \* Rotate VR101 fully counterclockwise before turning on the power switch.

Set the impedance select switch to "DIRECT" and measure the output offset voltage.

If it is range of ±4mV, proceed the following steps.

- 2-1) Turn on the power switch.
- 2-2) Adjust VR101 to get proper voltage value which corresponds the ambient temperature. (See Table 1)
- 2-3) Since the Idling current increases gradually for 3 to 5 minutes after the adjustment of VR101, avoid making readjustment immediately.

### Voltages across Emitter Resistor VS. Ambient Temperature

Ambient temperature	A-903MK2	A-906MK2 A-912MK2
50° F (10° C)	5.5 mV	2.5 mV
68° F (20° C)	7.1 mV	3.5 mV
77° F (25° C)	8.8 mV	4.4 mV
86° F (30° C)	9.5 mV	5.3 mV
104° F (40° C)	11.5 mV	7.2 mV

(Table 1)

#### \* For A-912MK2

Measure the voltages across ① → ②, ③ → ②, ② → ④, and ② → ⑤ respectively. If each value is twice that indicated in Table 1, replace the relevant power transistor and make the adjustment again in due order from 2-1.

