NAD SERVICE MANUAL
MAR 15 1989

3220PE
3020e
INTEGRATED AMPLIFIERS
ALIGNMENT METHOD

AUDIO SECTION 3220PE/3020e

IMPORTANT
Speaker impedance switch should be in 8 ohm position while adjust center voltage and idling current.

INITIAL ADJUSTMENT (No load connected)
A. CENTER VOLTAGE
   1. Connector DC millivoltmeter to L channel output terminal.
   2. Turn on and adjust to 0 V+/-30mV with R411(100 ohm). Connect DC millivoltmeter to R channel output terminal and adjust R412 to 0 V+/-30mV.

B. IDLING CURRENT
   1. Remove solder short across R455 and R456.
   2. Connect DC millivoltmeter across R455 (1 ohm) (output transistor's collector resistor) and adjust R443 for 26-30mV reading on meter. Repeat adjustment with R444, connecting meter across R456 (1 ohm).
   3. Leave power on for minimum 5 minutes.

FINAL ADJUSTMENT
C. CENTER VOLTAGE
   1. Repeat step A about.

D. IDLING CURRENT
   1. Repeat step B and adjust with R443,R444 for 30mV reading on meter.
   2. After the alignment is finished, 1 ohm resistor R455,R456 is shorted by solder short.