

### MICRO SWITCH AND CAM ADJUSTMENT

Cycle of the record mechanism is controlled by the operation of four micro switches actuated in the proper sequence by a rotating cam shaft.

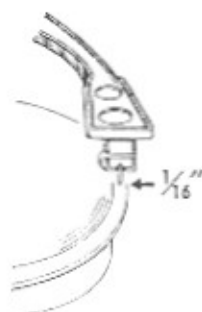
To adjust, phonograph must be in stand-by position (gripper arm over record magazine), and the service scan switch moved to "off".

1. Rotate the knurled end of the gripper motor shaft clockwise until a jam occurs.
2. At this point, the No. 1 switch roller must be in the cam groove and in contact with the back drop-off. If the roller is cammed out, loosen the two cam set screws and rotate the cam until the proper position is obtained.

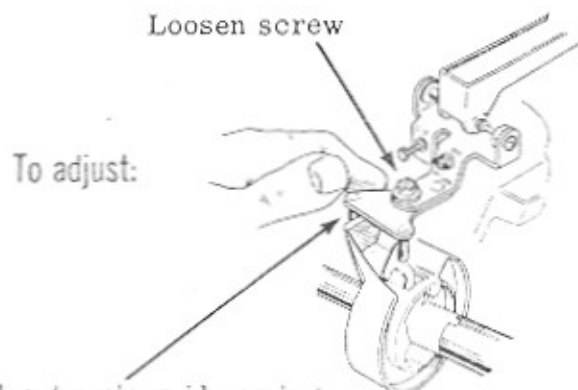


## TONE ARM ADJUSTMENTS

### NEEDLE SET-DOWN

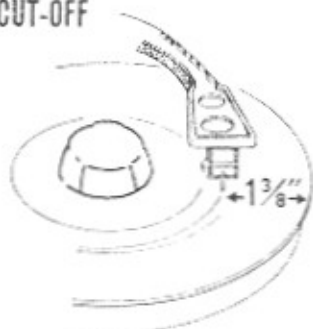


Stop mechanism just before needle lands on record. Needle must be at least  $\frac{1}{16}$ " in from record edge.

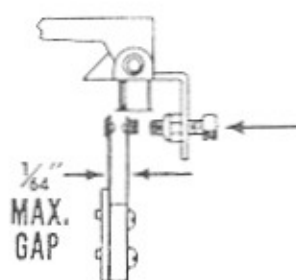


Hold outer pin guide against cam and move Tone Arm "in" or "out"—Tighten screw.

### RECORD CUT-OFF



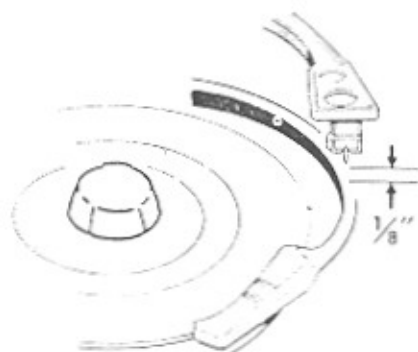
Cut-off position is  $1\frac{3}{8}$ " from record edge.



To adjust:

Move adjustment screw to obtain proper gap.

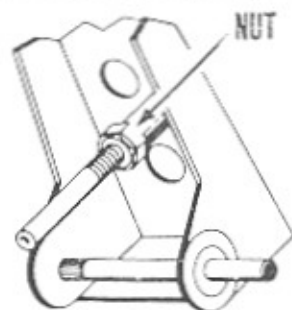
### NEEDLE CLEARANCE ABOVE GRIPPER ARM



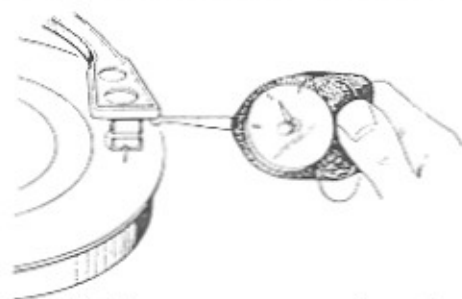
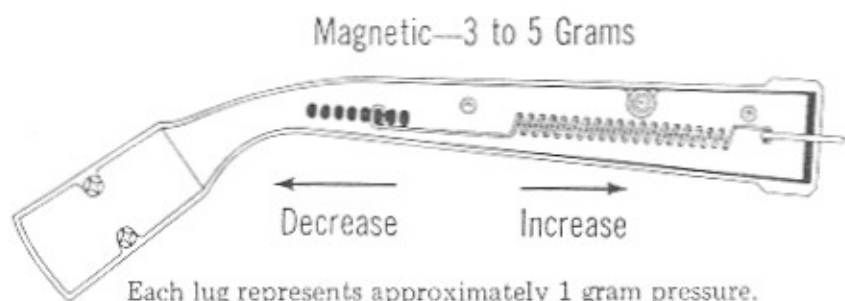
On even numbered selections the tone arm needle passes over the bow of the gripper arm. Needle clearance must be  $\frac{1}{8}$ ".

To adjust:

Loosen nut. Raise or lower adjustment screw for needle clearance. Tighten nut.

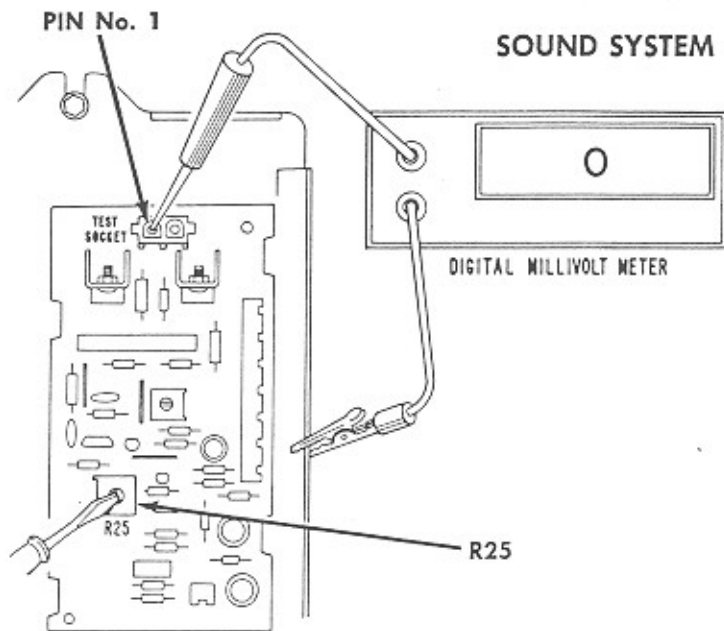


### TONE ARM GRAM PRESSURE ADJUSTMENT



Needle pressure reading is taken at the point of contact of the needle on the record.

## SOUND SYSTEM ADJUSTMENTS



DRIVER P.C. BOARD

CENTER VOLTAGE (OUTPUT LINE) AND IDLE CURRENT ADJUSTMENT.

These controls are located on the DRIVER P.C. BOARDS (52265-A) for each channel. They should only be re-adjusted when a DRIVER P.C. board or HEAT SINK assembly (52360-A) has been replaced or repaired.

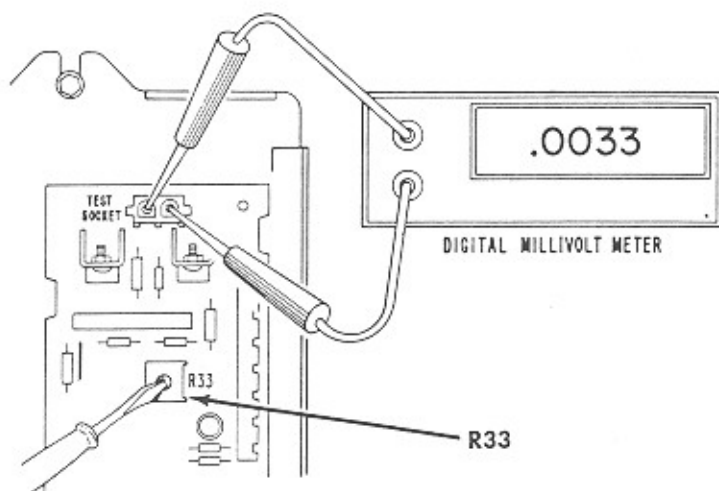
### CONDITIONS:

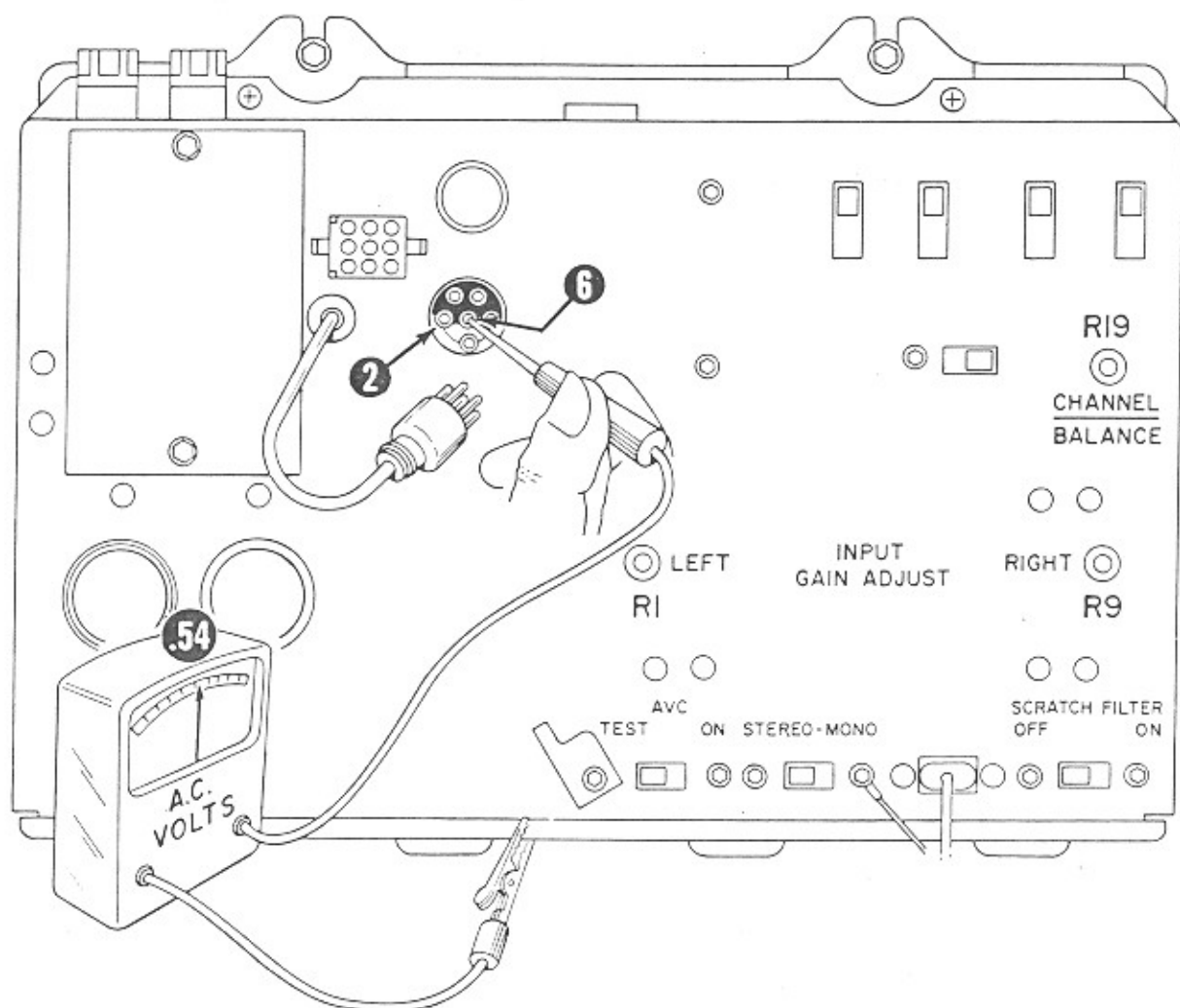
1. Line voltage: 120 volts.
2. Load: None. Disconnect plug from SPEAKER TERMINAL STRIP socket on front of amplifier.
3. Signal: None. Turn VOLUME CONTROL to minimum.

EQUIPMENT: Digital Millivoltmeter

### PROCEDURE:

1. With POWER OFF, pre-set R33 (current) to minimum (CCW) and R25 (voltage) to center of rotation.
2. Connect meter between ground and pin #1 of TEST SOCKET on driver P.C. board to be adjusted.
3. Switch POWER ON. Adjust R25 for 0 volts plus or minus .001 volts.
4. Connect meter to pins 1 and 2 of TEST SOCKET.
5. Adjust R33 for .0033 volts plus or minus .001 volts. (Indicates 7 to 13 MA through R43)





#### INPUT GAIN ADJUSTMENT (R1 and R9)

These controls are located on the PRE-AMPLIFIER and A.V.C. P.C. BOARD (52295-A) and are accessible through the front of the amplifier. They should only be adjusted when the PICK UP CARTRIDGE has been replaced or the PRE-AMPLIFIER P.C. BOARD has required service or replacement.

#### CONDITIONS:

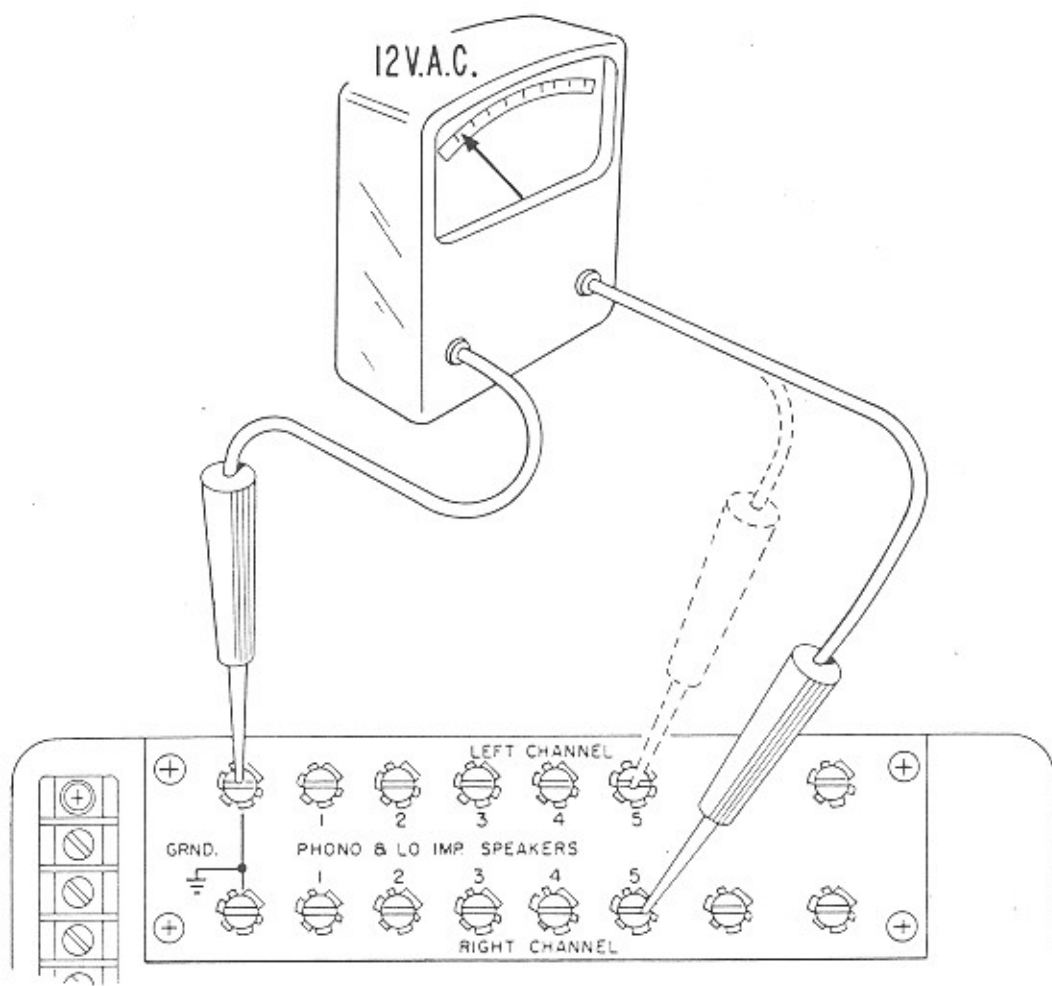
1. Set A.V.C. switch to TEST.
2. Set STEREO-MONO switch to STEREO.
3. Set SCRATCH FILTER switch to OFF.

#### EQUIPMENT:

1. RMC STEREO TEST RECORD #1001.
2. A.C. Voltmeter (1000 ohms per volt minimum)

#### PROCEDURE:

1. Remove VOLUME CONTROL plug from socket on amplifier front.
2. Connect the A.C. voltmeter to pin #6 of the VOLUME CONTROL SOCKET and GROUND. Play Band #2 (right channel) of test record. Set the RIGHT INPUT GAIN ADJUST (R9) for .54 volts.
3. Connect the A.C. voltmeter to pin #2 of the VOLUME CONTROL SOCKET and GROUND. Play Band #1 (left channel) of test record. Set the LEFT INPUT GAIN ADJUST (R1) for .54 volts.



### BALANCE CONTROL

This control is located on the TONE CONTROL P.C. BOARD (52260-A) and is accessible through the amplifier front. Re-adjustment should only be required if the amplifier has been serviced.

### CONDITIONS:

1. Set A.V.C. switch to ON.
2. Set STEREO-MONO switch to STEREO.
3. Set SCRATCH FILTER switch to OFF.
4. Set TONE CONTROLS to MAXIMUM.
5. Set VOLUME CONTROL to MAXIMUM.
6. INPUT GAIN CONTROLS must be adjusted correctly.

### EQUIPMENT:

1. RMC STEREO TEST RECORD #1001.
2. A. C. VOLTMETER (1000 ohms per volt minimum)

### PROCEDURE:

1. Play Band #3 (right and left channels) of the test record. Connect the A.C. voltmeter to ground and terminals #5 on the AUDIO DISTRIBUTION terminal strip. Alternately connect the meter to #5 left and #5 right. Adjust the BALANCE CONTROL (R19) for equal voltages on both channels. (Approximately 12 volts)