ALIGNMENT PROCEDURE

1. ADJUSTMENT OF OSCILLATION FREQUENCY

In order to optically synchronize the striped pattern of the turntable at each turntable speed, adjust the oscillation frequency by setting the variable resistors, VR 101 and VR 102, on the power supply board in the following manner:

Method of Adjustment

Hook up the frequency counter, connecting it to IC101 to locate it between No. 4 and No. 5 terminals of this IC; and set the two VRs to obtain the following frequency readings:

By VR 101 . . . . .120.00 ±0.05 Hz at 45 rpm (Ep)
By VR 102 . . . . . 88.88 ±0.05 Hz at 33 rpm (Lp)

Note: For Lp, set record size knob at 30 and speed knob at 33 rpm.
For Ep, set record size knob at 17 and speed knob at 45 rpm.

DD motor adjustments

1-1. Rpm adjustment

Set the fine-adjustment knob (for Ep and Lp, located on outer face of front panel) at its mechanical center (center of its angular range). Under this condition, adjust the semi-fixed variable resistors on the circuit board to freeze the strobo pattern of turntable: for this adjustment, use VR 1 (which is for 33-1/3 rpm of Lp) and VR 2 (which is for 45 rpm of Ep).

Note: Be sure to have record size knob set at 30 and speed knob at 33 rpm for Lp; and at 17 and 45 rpm, respectively, for Ep.

1-2. Wow-flutter adjustment

Use the wow-flutter test record (LF-1003). Adjust semi-fixed variable resistor VR 5 on DD circuit board to obtain the minimum value, and adjust VR 3 and VR 4 alternately to minimize wow and flutter.