

ADJUSTMENT PROCEDURES

Instruments required

Dual trace oscilloscope, Frequency counter, AF oscillator, Test disc (SONY YEDS-18) and AC voltmeter.

1. Focus offset adjustment

Turn R120 and R121 to the mechanical center.

Load the test disc YEDS-18 on the tray and play the track 2.

Connect the oscilloscope to terminal P3.

Adjust R119 until the waveform on the oscilloscope becomes maximum.

After adjustment, disconnect the oscilloscope.

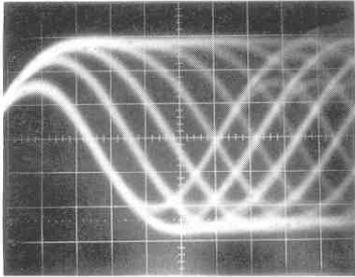
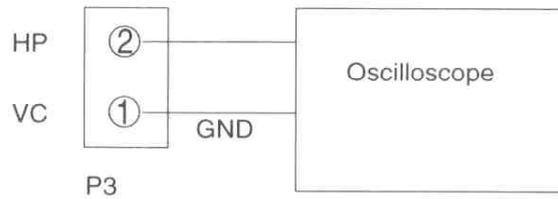


Photo 1

0.2V/div
0.2μs/div



2. Tracking offset adjustment

Load the test disc YEDS-18 on the tray and play the track 2.

Turn R121 to minimum position. (Counter clockwise)

Connect the oscilloscope across pin 2 (TE) of P4 and pin 1 (VC) of P3.

Adjust R116 until the center of tracking error signal on the oscilloscope becomes GND level.

Turn R121 to the mechanical center.

After adjustment, disconnect the oscilloscope.

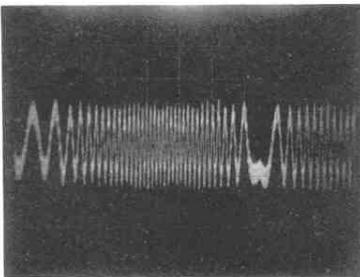
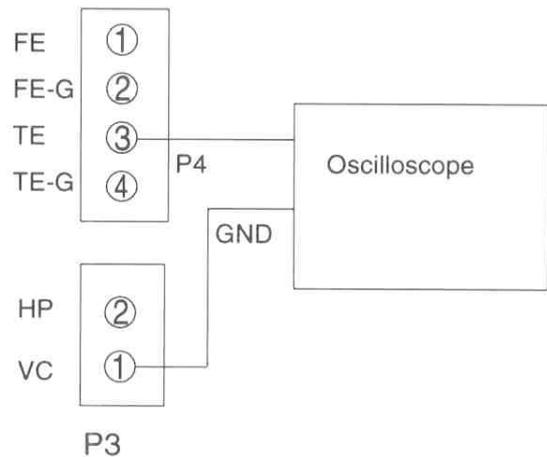


Photo 2

0.5V/div
5ms/div



3. Focus gain adjustment

Set the output of AF oscillator to 1kHz, 1~1.5 Vp-p.
 Play the track 2 of test disc.
 Connect the oscilloscope and the AF oscillator as shown below.

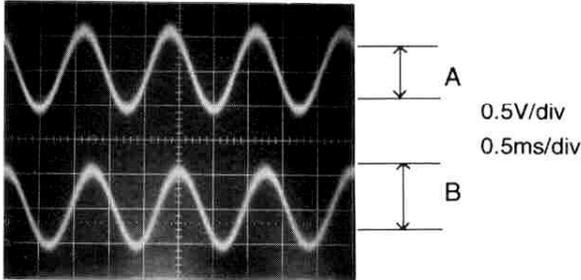
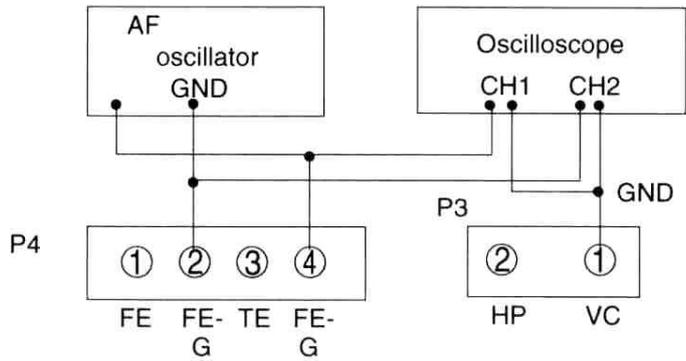


Photo 3



Adjust R120 until 1kHz components of channels 1 and 2 on the oscilloscope become same level.
 After adjustment, disconnect the AF oscillator and the oscilloscope.

4. Tracking gain adjustment

Set the output of AF oscillator to 1.2kHz, 1~1.5 Vp-p.
 Play the track 2 of test disc.
 Connect the oscilloscope and the AF oscillator as shown below.

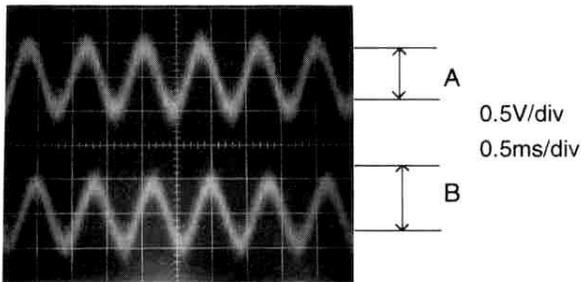
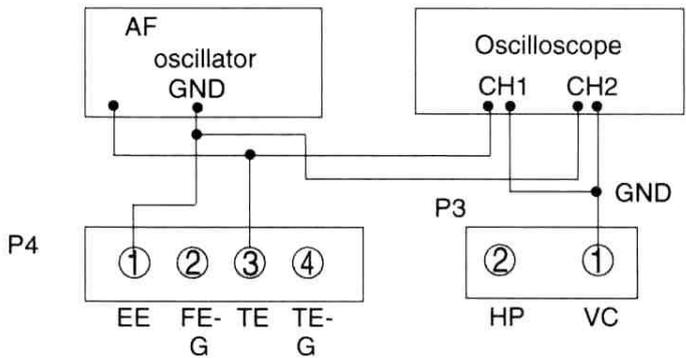


Photo 4



Adjust R121 until 1.2kHz components of channels 1 and 2 on the the oscilloscope become same level.
 After adjustment, disconnect the AF oscillator and the oscilloscope.
 After adjustment, confirm that the center of tracking error signal becomes GND level.