

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.

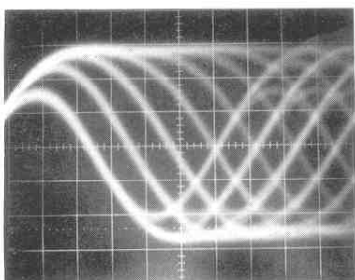
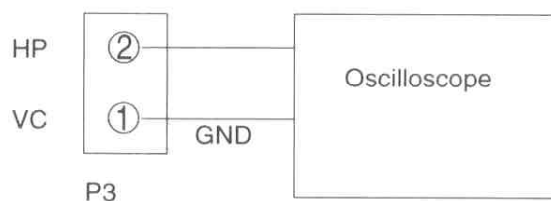


Photo 1

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.

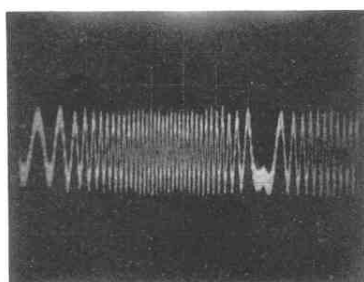
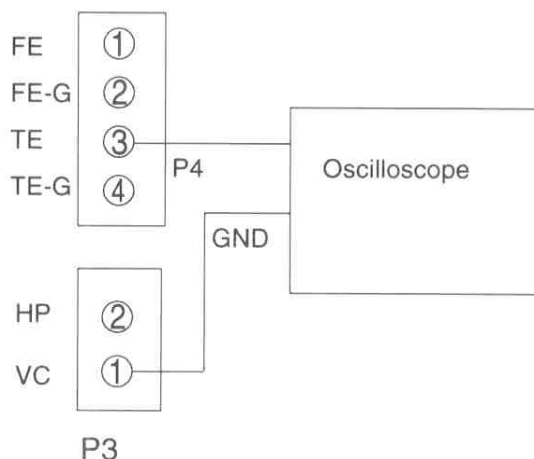


Photo 2

0.5V/div
5ms/div

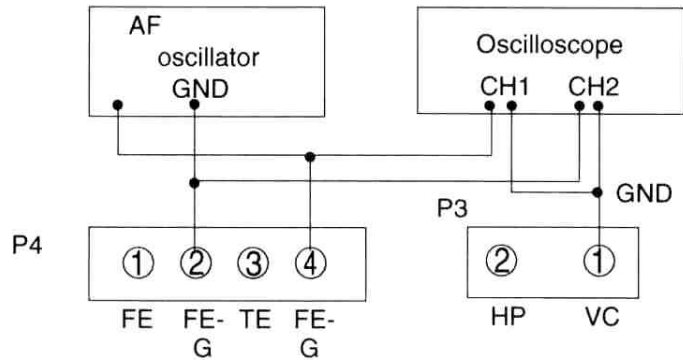
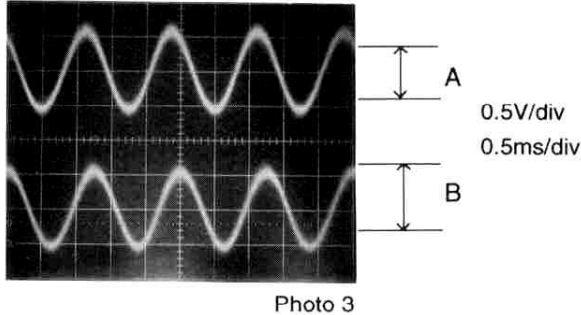


3. Focus gain adjustment

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.



Adjust R120 until 1kHz components of channels 1 and 2 on the oscilloscope become same level.

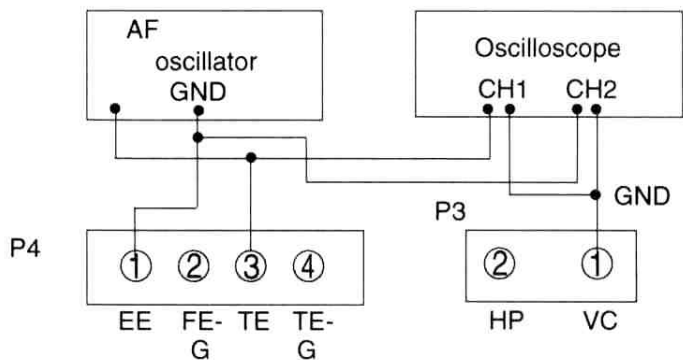
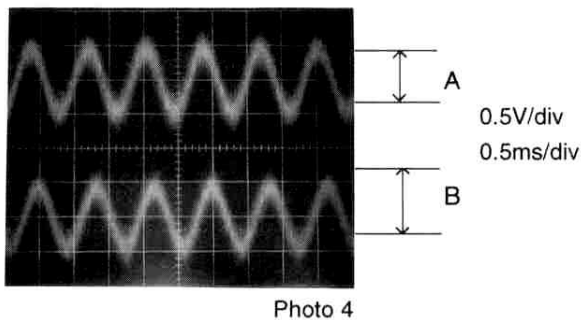
After adjustment, disconnect the AF oscillator and the oscilloscope.

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.



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.