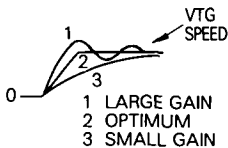
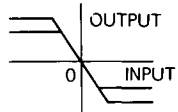
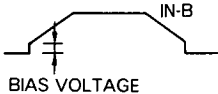


6.8 ADJUSTMENT (Cont'd)

Table 6.22 Potentiometer Adjustment

Potentiometer	VR1 (IN-B)	VR3 (ZERO)	VR5 (CUR)
Functions	Position Loop Gain Adjustment	Speed Amplifier Zero Adjustment	Starting Current Adjustment
How to Adjust	To increase gain, turn VR1 CW.	Compensate the following condition with zero adjustment. <ul style="list-style-type: none"> • Where the positioning completion signal is output unbalanced. • Where the vibration of one pulse response is large at servo lock. 	Turning VR5 CCW decreases the peak value of starting current. VR5 has been preset fully CW at the factory.
Characteristics	 <p>1 LARGE GAIN 2 OPTIMUM 3 SMALL GAIN</p>	Adjust when motor is still so that minimal lights are blinking on ABC. This setting should be done last	 <p>Maximum output voltage of speed amplifier varies.</p>

Potentiometer	VR6 (LOOP)	VR15 (BIAS)	VR16 (CFV)	VR21 (PG5V)
Functions	Speed Loop Gain Adjustment	Speed Reference Bias Compensation	Speed Reference Feed Forward Compensation	Voltage Adjustment of PG + 5V Power
How to Adjust	To increase gain, turn VR6 CW.	To increase bias compensation voltage, turn VR15 CW. If compensation is excessive, the motor will hunt.	Adds feed forward compensation to increase the apparent Kp value and to improve the response. Turning VR16 CW increases the compensation.	Voltage adjustment for PG power. VR21 has been preset at 5.25V at the factory.
Characteristics	To prevent hunting, turn VR6 CCW.		If too low carriage squeals when approaching its destination. Turn full CW to reduce squeal.	Turning VR21 CW increases the voltage. If the influence of voltage drop occurs due to long wiring PG, increase the voltage. Do not set VR21 to 6V or above.