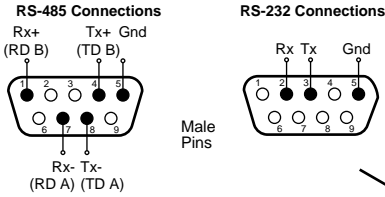


RS-232/485 Connector – Configuration Port

To configure all drive parameters, connect a PC or HPC to this port. Use Motion Planner or Pocket Motion Planner for drive configuration. (Not ASCII protocol.)



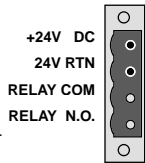
+24VDC/Relay Connector

User supplies +24VDC for "keep alive" power to drive:
 19.2 – 28.8 VDC
 500 mA minimum

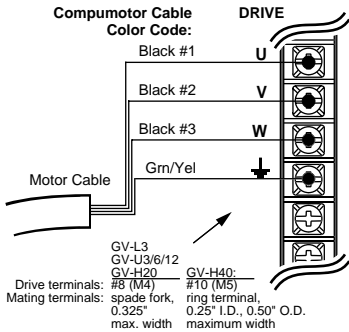
When drive is enabled, it holds relay closed.

Relay rating: 5A at 24VDC or 120VAC.

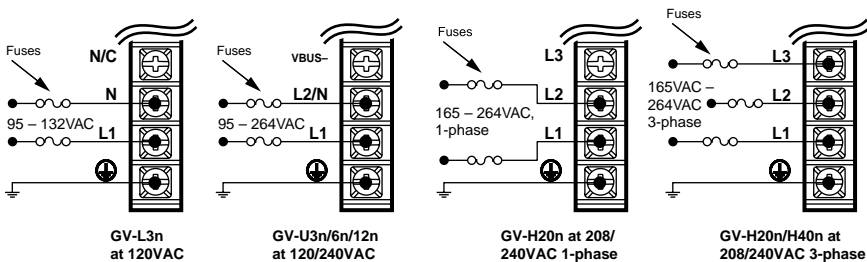
If drive is faulted or disabled, relay will open. (Typical use: control of motor brake.)



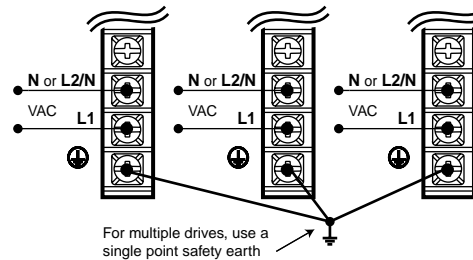
Motor Output Connections



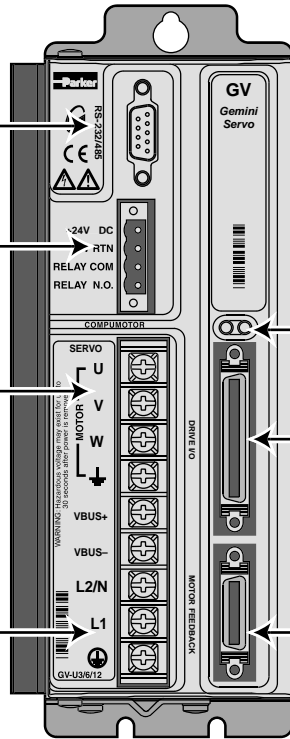
AC Input Connections



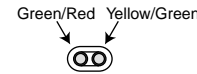
Multiple Drive Connections



Gemini GV Digital Servo Drive

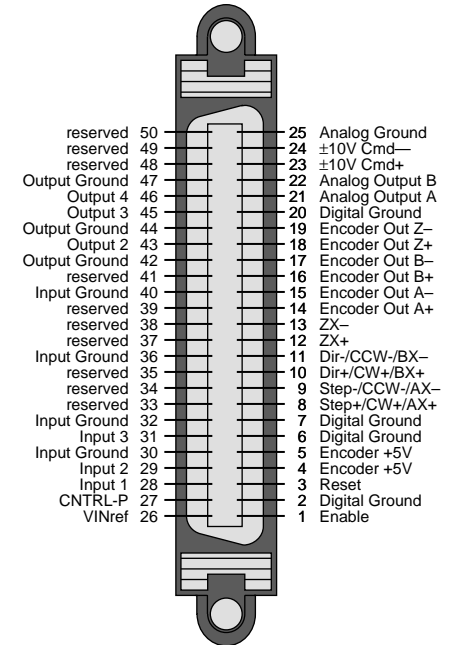


LEDs

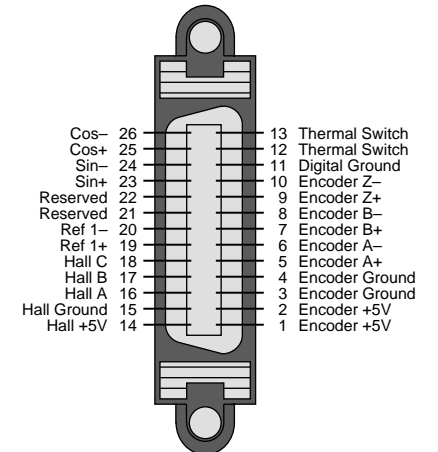


LED Color:	Right	Indicated State
Off	Yel	Initialization
Red (flash)	Off	Awaiting flash download
Red (flash)	Yel (flash)	Programming flash memory
Red	Grn	Keep alive mode
Grn	Grn (flash)	Incoming steps (variable rate)
Grn	Yel/Grn (flash)	Autotune mode
Red	Off	Drive not enabled
		Drive faulted
Grn	Off	Drive ready

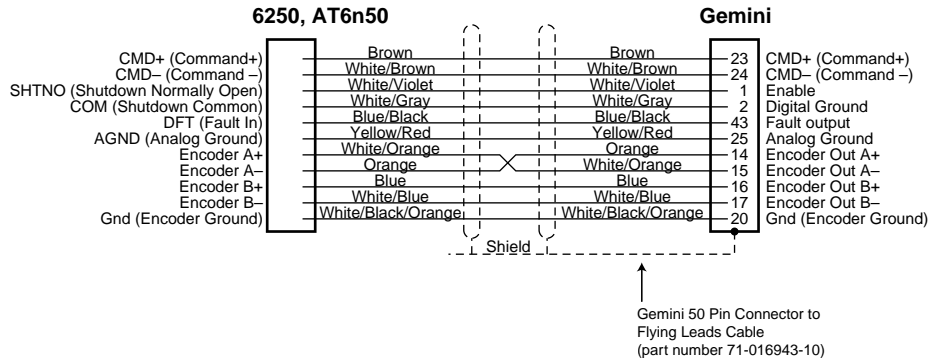
50 Pin DRIVE/O Connector



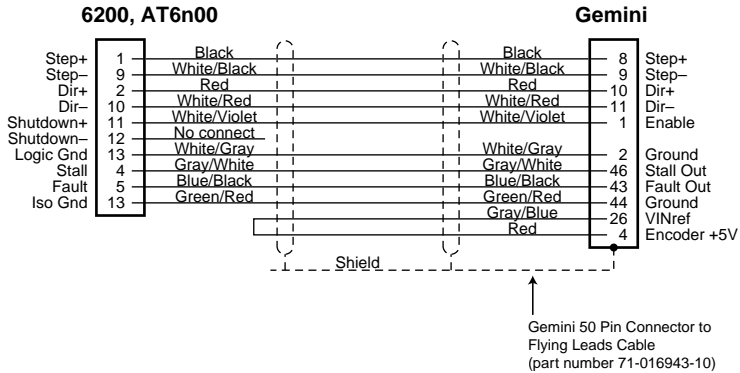
26 Pin MOTOR FEEDBACK Connector



6250 Connections to Gemini Drive



6200 Connections to Gemini Drive



Protective Circuits

- Short Circuit Protection
- Inrush Current Protection
- Drive Overtemperature Protection
- Motor Overtemperature Protection
- Undervoltage Protection
- Overvoltage Protection
- Current Foldback
- Regeneration Protection

Environmental Specifications

Operating Temperature: Still Air: 45°C (113°F)
 Moving Air: 50°C (122°F)
 Storage Temperature: -40°C – 85°C (-40°F – 185°F)
 Humidity: 0 – 95%, non-condensing
 Shock: 15g, 11msec half sine
 Vibration: 10 – 2000 Hz at 2g

Troubleshooting

Commonly used status commands (binary status bits are numbered 1 to n, from left to right):

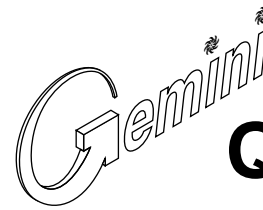
- TERRLG Error log reports the last 10 error conditions (cleared with CERRLG).
- TAS General report, including fault conditions.
- TASX Additional report of conditions not covered with TAS.
- TCS If TASX bit #7 or bit #28 is set, you can identify the cause with TCS.
- TINO Bit #6 indicates status of Enable input ("1" = OK to enable drive).
- TIN Status of digital inputs, including end-of-travel inputs.
- TOUT Status of digital outputs.

You must configure all motor parameters. Be sure to follow the drive configuration procedure (see *Chapter 2 Installation*).

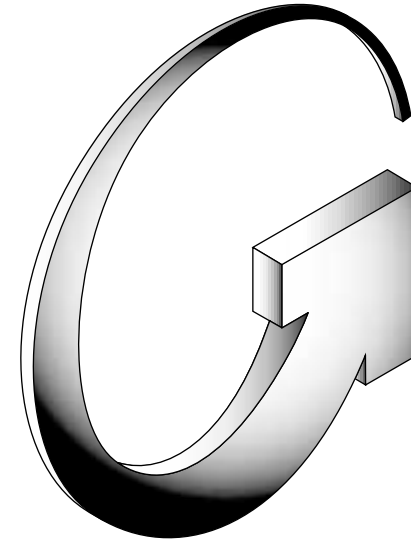
Any fault condition causes the drive to shut down.

The drive can not be enabled (DRIVE1) unless the Enable input is grounded and the Reset input is not grounded.

Use one of three methods to reset the drive (all command settings are remembered after reset):
 Issue the RESET command.
 Momentarily close the Reset input.
 Cycle power to the drive.



Quick Reference Guide



Gemini GV Servo Drive

Compumotor Division
 Parker Hannifin Corporation
 p/n 88-017779-01 C (effective December 1, 2001)

