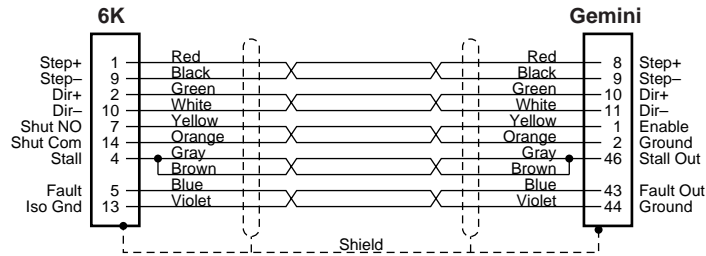
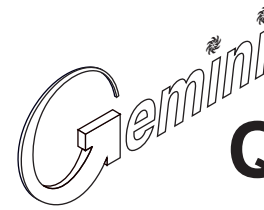
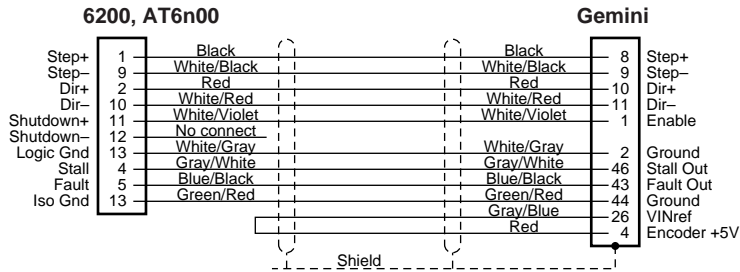


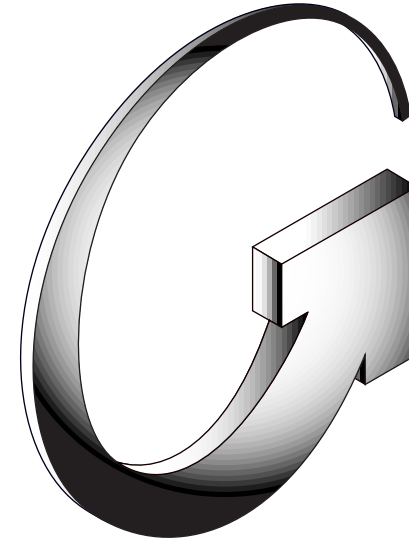
### 6K Connections to Gemini Drive



### 6200 Connections to Gemini Drive



# Quick Reference Guide



## Gemini GT Stepper Drive

### Protective Circuits

- Short Circuit Protection
- Inrush Current Protection
- Drive Overtemperature Protection
- Undervoltage Protection
- Regeneration Protection

### Environmental Specifications

Operating Temperature	Still Air:	45°C (113°F)
	Moving Air:	50°C (122°F)
	Minimum:	0°C (32°F)
Storage Temperature:	-40°C – 85°C (-40°F – 185°F)	
Humidity:	0 – 95%, non-condensing	

### 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.

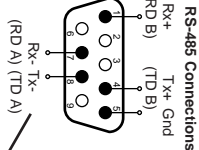
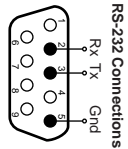


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 Parker Hannifin Corporation  
 p/n 88-017777-01 A (effective September 22, 1999)



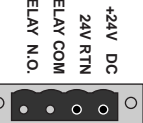
**RS-232/485 Connector – Configuration Port**

To configure all drive parameters, connect a PC or HPC to this port. Use Motion Planner or Pocket Motion Planner for drive configuration.



**+24VDC/Relay Connector**

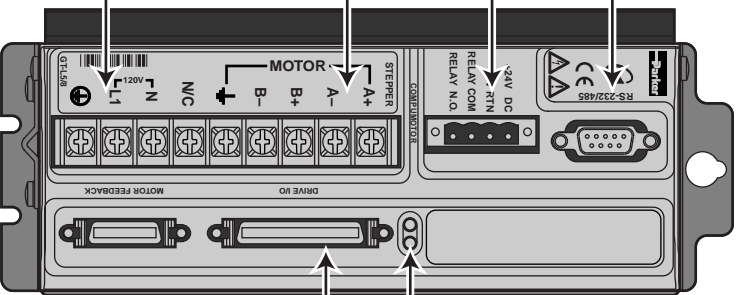
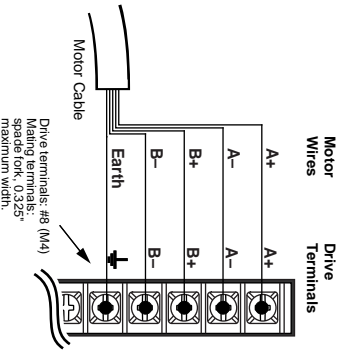
**Keep Alive Power:**  
+24VDC provides keep alive power to Drive



**Relay:**  
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**



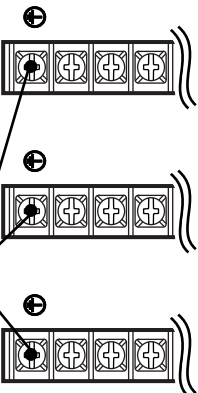
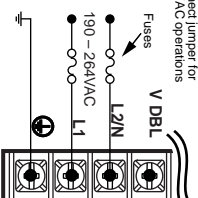
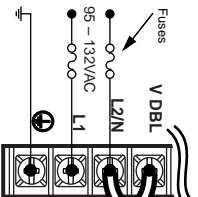
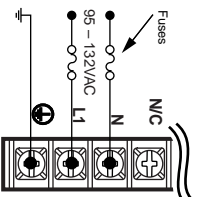
**LEDs**

Green/Red Yellow/Green



LED Color:		Indicated State*
Left	Right	Initialization
Off	Yel	Awaiting flash download
Red (flash)	Off	Programming flash memory
Gm (flash)	Yel (flash)	Keep alive mode
Red	Gm	Incoming steps (Variable rate)
Gm	Gm (flash)	Autoturn mode
Gm	Yel/Gm (flash)	Drive not enabled
Red	Off	Drive faulted
Gm	Off	Drive ready

**AC Input Connections**



For multiple drives, use a single point safety earth

**50 Pin Drive/I/O Connector**

