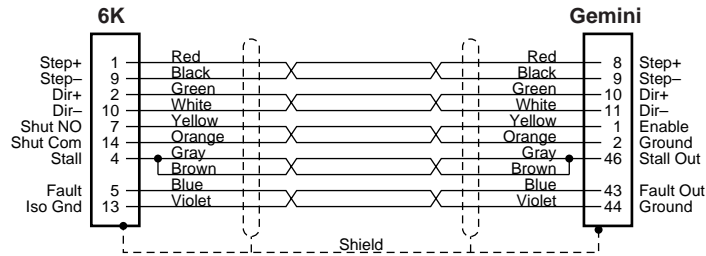
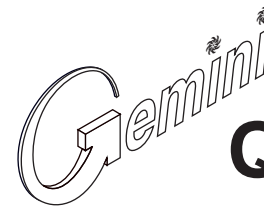
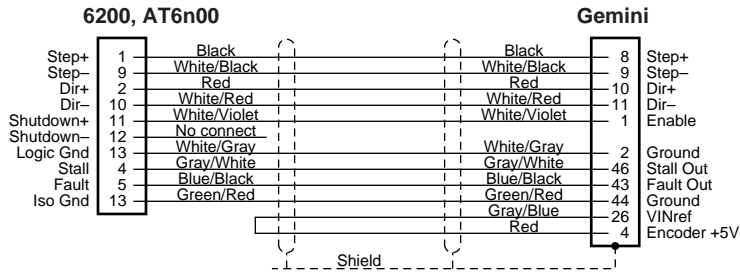


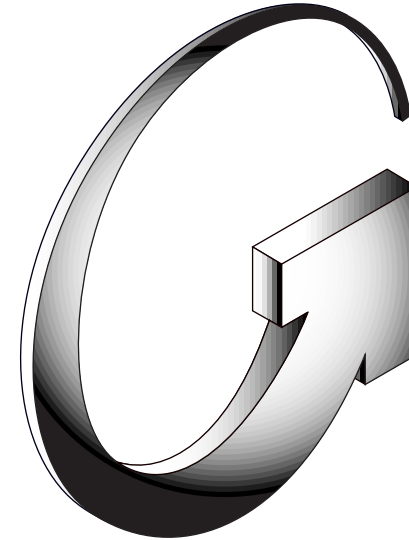
6K Connections to Gemini Drive



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.

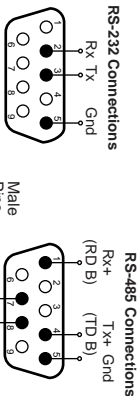


Compumotor Division
 Parker Hannifin Corporation
 p/n 88-017777-01 A (effective September 22, 1999)



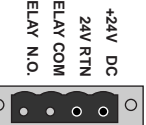
RS-232/485 Connector – Configuration Port

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

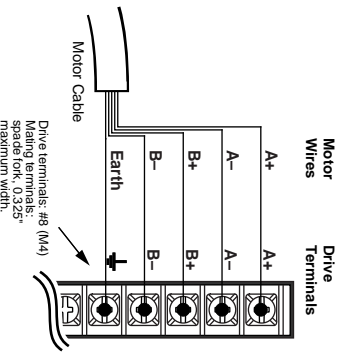
Keep Alive Power:
+24VDC provides keep alive power to Drive



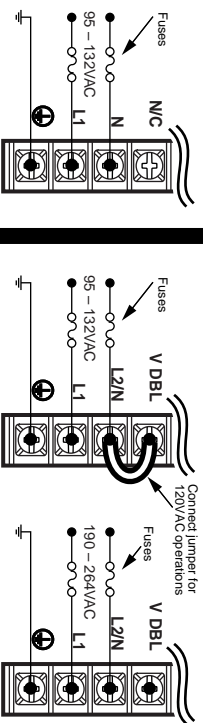
Relay:
When drive is enabled, it holds relay closed.
Relay rating: 5A at 24VDC or 120VAC.

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

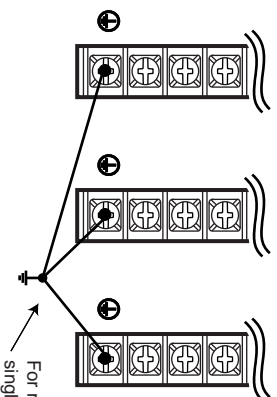
Motor Output Connections



AC Input Connections



Multiple Drive Connections



For multiple drives, use a single point safety earth

LEDs

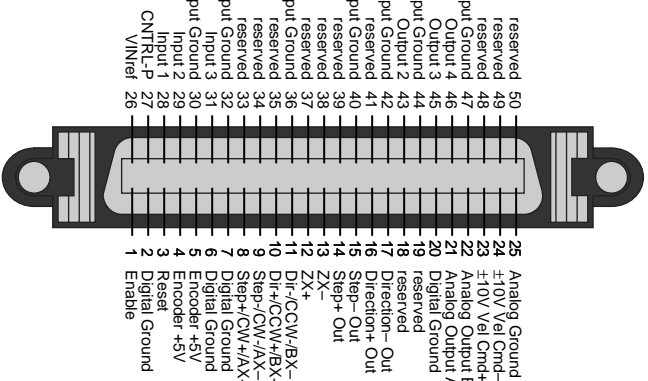
Green/Red Yellow/Green



LED Color:

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

50 Pin DRIVE/I/O Connector



- 25 Analog Ground
- 24 ±10V Vei Cmd-
- 23 reserved
- 22 Analog Output B
- 21 Analog Output A
- 20 Digital Ground
- 19 reserved
- 18 reserved
- 17 Direction- Out
- 16 Direction+ Out
- 15 Step- Out
- 14 ZX+
- 13 ZX-
- 12 reserved
- 11 Dir-/CCW-/BX-
- 10 Dir+/CCW+/BX+
- 9 Step-/CW-/AX-
- 8 Step+/CW+/AX+
- 7 Digital Ground
- 6 Encoder +5V
- 5 Encoder +5V
- 4 Reset
- 3 Input 1
- 2 Input 2
- 1 Digital Ground
- 50 reserved
- 49 reserved
- 48 reserved
- 47 Output Ground
- 46 Output 4
- 45 Output 3
- 44 Output Ground
- 43 Output 2
- 42 Output Ground
- 41 reserved
- 40 Input Ground
- 39 reserved
- 38 reserved
- 37 reserved
- 36 Input Ground
- 35 reserved
- 34 reserved
- 33 Input Ground
- 32 Input 3
- 31 Input 2
- 30 Input Ground
- 29 Input 1
- 28 Input 1
- 27 Input 2
- 26 CNTRL-P
- 26 VINref