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		Gemini 50-	Pin C	onnec	tor to Flying Leads Ca	ble	
			$\hat{()}$		White/Violet	()	
Enable	1 1 1		- T İ		White/Grav	T i	
Digital Ground					Red/Black		
Reset	3			~	Ded 10 AMC		
reserved	1 # T	•		\rightarrow	Red 16 AWG	i i	
Disited Crewed	1 2 1		i i	\times	Black 10 AMC	i i	
Digital Ground	1 º T	•		\rightarrow	BIACK TO AWG		
Digital Ground	I 'T	Black	- ! !	\cup			Black
reserved	ST 8	White/Black		$-\chi$			White/Black
reserved	10 T	Red	i i				Red
reserved		White/Red	- I I	_X_		$X \rightarrow$	White/Red
reserved	1 H T	Green	11				Green
reserved	12 T	White/Green		_X_		\mathbf{X}	White/Green
Stop L Out		Orange					Orange
Step+ Out	14 T	White/Orange	i i	_X_		\sim	White/Orange
Direction - Out		Blue	- I I			I I	Blue
Direction+ Out		White/Blue	11	_X_		XII	White/Blue
Direction-Out	16 T	Yellow					Yellow
reserved		White/Yellow		$-\chi$			White/Yellow
Digital Groupd			i i		White/Black/Orange		
Digital Ground	20 T		- I I		White/Black/Green	1.1	
Analog Output A	51 T		11		Green/Black	11	
Analog Uniput B	22 T	Brown					Brown
Analog Input+	23 T	White/Brown		_X_		\sim	White/Brown
Analog Input-	24 T		i i		Yellow/Red		
Analog Ground	25 T		- I I		Gray/Blue	11	
	20 T		11		Yellow/Green	11	
(Boo) Limit 1	26 T				Gray/Orange		
(FOS) LITTIL T	20 T				Blue/Red		
(Ney) Linit 2	29 T		i i		Blue/Orange	i ;	
(Homo) Limit 2	30 T		- I I		Gray	11	
(Hollie) Lillin 3			11		Pink	11	
	32 T				White/Pink		
INTRL-P: IN 1-5	33				Orange/Black		
TPC M) Input 5	34 T		i i		White/Black/Blue	i ;	
Ind wij input 5	35 T		- I I		Yellow/Blue	1.1	
(TBC A) Input 1	30 T		11		Yellow/Orange	11	
TRG A) Input 1	37 T				Blue/Yellow		
Ind b) Input 2	30 T				Violet		
In/Lim Ground	39 T		i i		White/Black/Red	i ;	
Output 1	40 T		- I I		Yellow/Black	11	
Output Ground	$\frac{41}{42}$ T		11		White/Black/Yellow	11	
Output Ground	42 T				Blue/Black		
Output 2	43				Green/Red		
Output Ground					Gray/Green		
Output 3	40		11		Gray/White		
Output Ground	40				Yellow/White	11	
Output Ground	4/				Blue/White		
Output 5	40				Gray/Brown		
Output Ground	49				Yellow/Brown		
Output Ground			11				
	A 1		~ ~'		Shield	~ ~ ~	
	T '-					!-	
	50 Pin	Connector			Cable P	art Numbe	er: 71-016943-10

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)
Storage Temperature:	-40°C - 85°C (-40°F - 185°F)
Humidity:	0 – 95%, non-condensing
Shock:	15g, 11 msec half sine
/ibration:	10 – 2000 Hz at 2g





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).

Troubleshooting

- General report, including fault conditions. TASE
- TASXF 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.
- TINOF Bit 6 shows status of Enable input; 1 = OK for motion. TIN Status of digital inputs.
- TLIM Status of home and end-of-travel limits.
- TIO Status of expansion I/O.
- TOUT Status of digital outputs.
- TSSF Report of system status bits. TSTAT Report of system statistics.

You must configure all motor parameters. Be sure to follow the drive configuration procedure (see Hardware Installation Guide). The drive can not be enabled (DRIVE1) unless the Enable input is grounded and the Reset input is not grounded.

Use one of these methods to reset the drive/controller: · RESET command (resets drive & internal controller).

- DRESET command (resets drive, but not controller).
- · Momentarily close the Reset input.
- Cycle power to the drive.

Quick Reference Guide



Gemini GT6K Series Digital Stepper Controller/Drives

Compumotor Division Parker Hannifin Corporation p/n 88-019931-01 A (effective October 15, 2001)



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