



micro Pin 7

micro Pin 12
(IF MICRO HANGS,
CHARGE PUMP STOPS
AND ac GOES OFF)

micro Pin 8
60 usec fixed period
4 usec ON => slowest
0.25 uSec step resolution

micro Pin 4

HD2 pin 5

HD2 pin 6

HD7 pin 1 2
(tach reed sw)

HD8 pin 1 2 3 4 5

micro Pin 11

micro Pin 15

micro Pin 19 (clk 2)

micro Pin 18 (clk 1)

micro Pin 6

micro Pin 5

- HEADER 2
- Pin 1 BLK GND
 - Pin 2 RED
 - Pin 3 GRN
 - Pin 4 BLUE PWM from console
 - Pin 5 ORNG
 - Pin 6 YELL
 - Pin 7 VIOL
 - Pin 8 BLK

50 msec fixed period
8 msec ON => slowest
25 msec ~ half speed

FLOATING +5V

micro Pin 14

micro

micro

- Pin 1 pot analog V (max speed cal adj)
- Pin 2 opto sense of data from console
- Pin 3 motor +V sense
- Pin 4 motor current sense analog sig
- Pin 5 Base of Q3
- Pin 6 1N914 drive to LED & Tach
- Pin 7 AC power Voltage sense
- Pin 8 FET PWM drive to driver
- Pin 9 PGM HDR pin 4 & Cath of LED
- Pin 10 GND
- Pin 11 PGM HDR pin 5 direct
- Pin 12 Deadman clock to AC enable SCR charge pump
- Pin 13 opto console-sense: possible drive override
- Pin 14 Opto drive for data to console
- Pin 15 PGM HDR pin 3 direct & Collector of Q3
- Pin 16 n.c.
- Pin 17 motor -V sense
- Pin 18 clk 1 sensing PGM HDR pin 1 via 100K divider
- Pin 19 clk 2 from tach
- Pin 20 +5V

- Pin 1 analog IN
- Pin 2 analog IN/OUT
- Pin 3 analog IN/OUT
- Pin 4 analog IN
- Pin 5 Switch mode pump OUT
- Pin 6 port 1-7
- Pin 7 port 1-5
- Pin 8 port 1-3
- Pin 9 port 1-1 / SCLK
- Pin 10 GND
- Pin 11 port 1-0 SDAT
- Pin 12 port 1-2
- Pin 13 port 1-4
- Pin 14 port 1-6
- Pin 15 ext rset
- Pin 16 analog IN
- Pin 17 analog IN/OUT
- Pin 18 analog IN/OUT
- Pin 19 analog IN
- Pin 20 V+