





EZCTRL ACESSORIES AND OTHER ELECTRICAL NOTES

MATING CONNECTORS:

AMP MTA 100 SERIES

4PIN 22 GA, AMP PART 3-643813-4

5PIN 22 GA, AMP PART 3-643813-5

8PIN 22 GA, AMP PART 3-643813-8

8PIN 26 GA, AMP PART 3-643814-8

CONNECTOR CRIMP TOOLS:

T HANDLE CRIMP TOOL DIGIKEY P/N A9982
PISTOL GRIP TOOL DIGIKEY P/N A1998 + A2031

SUITABLE POWER SUPPLIES:

DIGIKEY P/N 1470-2290

- 1) FOR FIRST TIME USERS, TO GUARD AGAINST A POSSIBLE MISWIRE, A CURRENT LIMITED LAB SUPPLY SET TO 12V AND 0.5A IS RECOMMENDED.
- 2) A SUPPLY OF 24V AND 2A CAPABILITY IS GOOD FOR MOST PURPOSES. POSSIBLE CHOICES ARE:
 DIGIKEY P/N 285-1820

HOME INPUT:

- 1) "Z" OR HOME COMMAND RUNS MOTOR UNTIL HOME INPUT CHANGES STATE. MOTOR WILL GO ONE DIRECTION (SAY CW) IF INPUT IS HIGH AND TURN IN OPPOSITE DIRECTION (SAY CCW) IF INPUT IS LOW. THERE SHOULD BE ONLY ONE BLACK TO WHITE TRANSITION POSSIBLE IN THE WHOLE RANGE OF MOTION, SO THAT HOMING IS UNAMBIGUOUS.
- 2) ALL INPUTS CONSIDER 3.3V AS A HIGH LEVEL , BUT WILL TOLERATE UPTO 24V

ON/OFF DRIVERS ALTERNATE WIRING DIAGRAM

- 1) ON/OFF DRIVERS RATED AT 0.7A / 2A AMPS.
- 2) THE NEGATIVE PIN OF THESE DRIVERS IS ACTUALLY AN OPEN COLLECTOR TYPE OUTPUT THAT PULLS DOWN TO GROUND. IT IS POSSIBLE TO DRIVE LOADS THAT ARE OF A DIFFERENT VOLTAGE THAN THE SUPPLY VOLTAGE, BY CONNECTING THE POSITIVE SIDE OF THE LOAD TO AN EXTERNAL SUPPLY, AND THE NEGATIVE SIDE TO THE -VE OUTPUT PIN. HOWEVER, IN CASE THIS IS DONE IT IS NECESSARY TO PLACE AN EXTERNAL "FREE WHEELING" DIODE ACROSS ANY INDUCTIVE LOADS. EXTERNAL SUPPLY VOLTAGE MUST BE LESS THAN SUPPLY VOLTAGE TO EZ STEPPER
- 3) EXTERNAL DIODE IS NOT NECESSARY IF BOTH SIDES OF LOAD ARE WIRED BACK TO THE EZ STEPPER.

1 AMP ON/OFF DRIVER #1 +

SOLENOID, DC MOTORETC

1 AMP ON/OFF DRIVER #1
EXTERNAL SUPPLY VOLTAGE
MUST BE LESS THAN SUPPLY
TO EZ STEPPER

ON/OFF DRIVERS ALTERNATE WIRING DIAGRAM



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