

SOME COMPONENTS CAN BE SOURCED FROM THE FOLLOWING:

GECKODRIVE, INC. - MARISS FREIMANIS (geckohall@home.com)
 www.geckodrive.com/g320/

GECKO 320 STEPPING SERVO DRIVE

CAMTRONICS, INC. - DAN MAUCH (dmauch@seanet.com)
 www.seanet.com/~dmauch

TRANSFORMERS - BRIDGE RECTIFIER -
 CAPACITOR - 36VAC FAN -
 24VDC SERVO MOTORS - 5V TTL ENCODERS -
 SERVO SYSTEM LED BOARD - MACHINED CASE FOR THE G320 DRIVES -
 PARALLEL PORT INTERFACE BOARD
 (CONTACT DAN FOR DETAILS ON THIS BOARD)

PRACTICAL MCGO DESIGN, INC. - STEVE STALLINGS (steve@practicalmgo.com)
 www.pmdx.com

PARALLEL PORT BREAKOUT BOARD
 (CONTACT STEVE FOR DETAILS ON THIS BOARD)

NOTE: THE STEP AND DIRECTION LINES FUNCTION AS THE OPTOISOLATOR WHEN THEY ARE PULLED LOW WHICH ALLOWS TO CONDUCT OR TURN ON. WITH THE COMPUTER SUPPLYING THE GROUND SIDE OF THE CIRCUIT THROUGH THE STEP AND DIRECTION LINES. THE +5VDC FROM THE PC P.S. IS USED TO COMPLETE THE CIRCUIT.

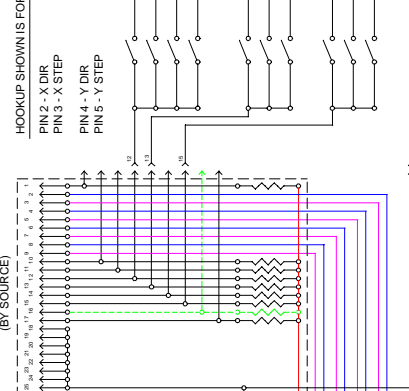
HOOKUP SHOWN IS FOR EMC

PIN 2 - X DIR
 PIN 3 - X STEP
 PIN 4 - Y DIR
 PIN 5 - Y STEP
 PIN 6 - Z DIR
 PIN 7 - Z STEP
 PIN 8 - A DIR
 PIN 9 - A STEP

X AXIS HOME
 Y AXIS HOME
 Z AXIS HOME
 A AXIS HOME

X LIMIT -
 Y LIMIT -
 Z LIMIT -

X LIMIT +
 Y LIMIT +
 Z LIMIT +



GECKO G320 STEPPING SERVO CNC CONTROL

DISCLAIMER

THIS DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. ERRORS MAY EXIST. THE USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE OF THE INFORMATION PROVIDED IN THE CONSTRUCTION, TESTING, AND USE OF THE SYSTEM SHOWN. THIS DESIGN IS NOT FOR ANY SPECIFIC APPLICATION OR USE. COMPUTER CONTROLLED EQUIPMENT MAY AND CAN CAUSE SERIOUS BODILY INJURY AND DAMAGE TO MACHINERY. SERIOUS INJURY OR DEATH CAN RESULT FROM CONTACT WITH ELECTRICAL COMPONENTS. PROPER SAFETY PRECAUTIONS AND PRACTICES SHOULD BE OBSERVED.

USE AT YOUR OWN RISK!

DRAWN BY: DONALD BROCK 04/14/2001
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NOTE:
 THIS DRAWING SHOWS AN ELECTRICAL REPRESENTATION ONLY.
 IT IS NOT AN ACTUAL WIRING DIAGRAM. DO NOT DAISEY-CHAIN CONNECTIONS.
 OBSERVE PROPER WIRING PROCEDURES AND PRACTICES.

CAPACITOR:
 10000-15000 uF
 50VDC
 COMPUTER GRADE

BLEED RESISTOR:
 1.2K 5 WATT

MAIN FUSE:
 IT IS SUGGESTED THAT
 YOU CHOOSE THE LOWEST
 VALUE THAT DOES NOT BLOW.

TRANSFORMERS
 INPUT: 110 VAC
 OUTPUT: 24 VAC 10 AMP

A AXIS ERROR LED
 Z AXIS ERROR LED
 Y AXIS ERROR LED
 X AXIS ERROR LED

NO CONNECTION
 NO CONNECTION

MOMENTARY
 DPDT CENTER OFF POSITION
 SWITCH