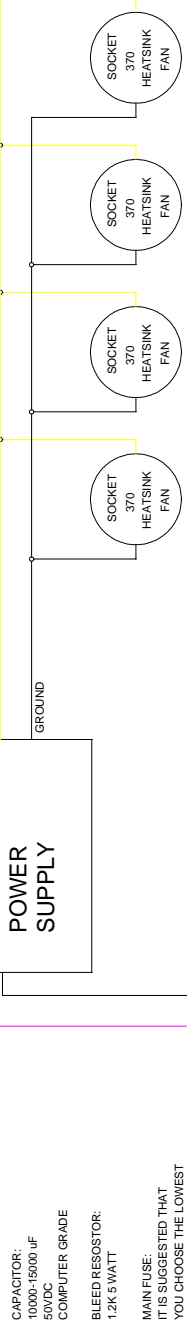


SPECIAL THANKS TO MARISS, DAN, STEVE AND TIM FOR THEIR FEEDBACK AND SUGGESTIONS WHILE THIS DRAWING WAS BEING CREATED.

(NOTE: FANS ARE OPTIONAL FOR HIGHER VOLTAGE / CURRENT UNITS)



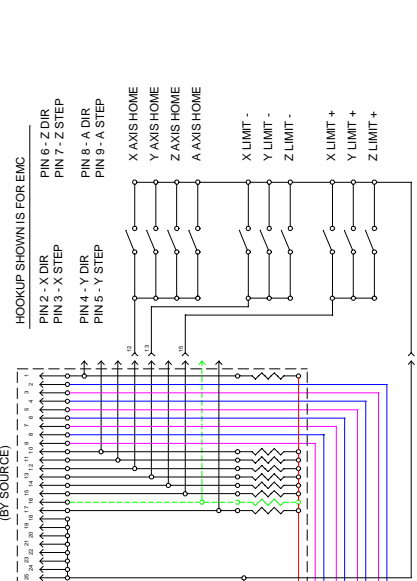
CAPACITOR:
10000-15000 uF
50VDC
COMPUTER GRADE
BLEED RESISTOR:
1.2K 5 WATT

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

TRANSFORMERS
INPUT: 110 VAC
OUTPUT: 24 VAC 10 AMP

SOME COMPONENTS CAN BE SOURCED FROM THE FOLLOWING:
GEEKODRIVE, INC. - MARISS FREIMANIS (geekohall@home.com)
www.geekodrive.com/g320/
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)

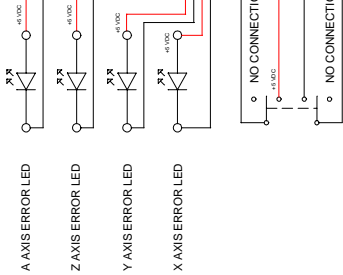
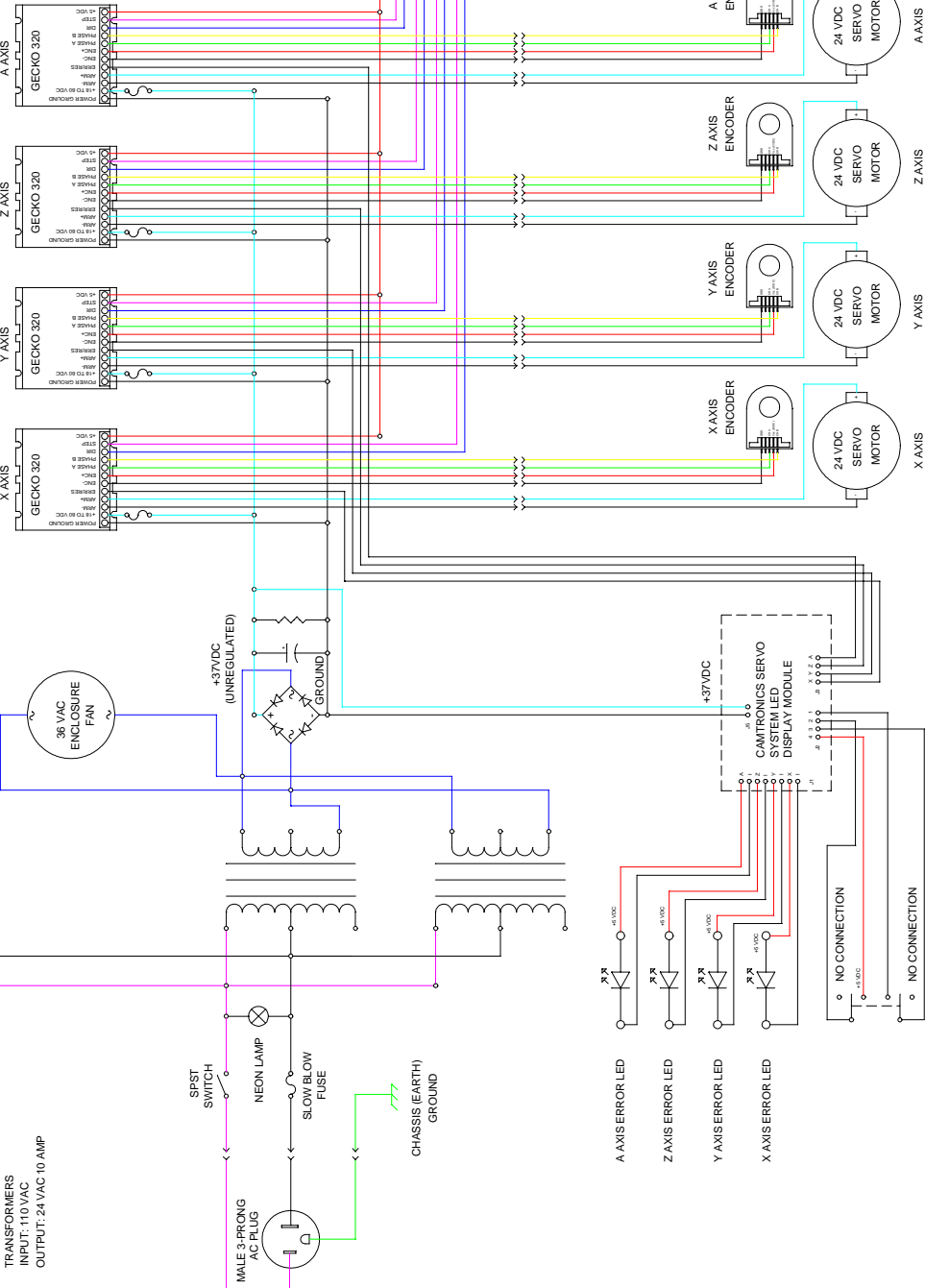
NOTE: THE STEP AND DIRECTION LINES FUNCTION AS THE OPTOISOLATOR WHEN THEY ARE PULLED LOW WHICH ALLOWS TO CONDUCT OR TURN ON. WITH THE COMPUTER SUPPLYING THE GROUND SIDE OF THE CIRCUIT THROUGH THE STEP AND DIRECTION LINES. THE + AND - LINES COMPLETE THE CIRCUIT FROM THE COMPUTER TO COMPLETE THE CIRCUIT.



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 +

(SLOW BLOW FUSES ARE USED ON THE GECKO DRIVES)



MOMENTARY
DPDT CENTER OFF POSITION
SWITCH

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.

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
REVISION 04/2001-01
DONATED TO THE PUBLIC DOMAIN ON 04/2001