Title: ACORN_rev4, GECKO G201 STEPPER DRIVE		
Date: 210420	Ver: 4	Drawn by: CEM
Filename: S14977.DWG		Sheet 1 of 1

How to tell the difference between Acorn_rev2, Acorn_rev3 and Acorn_rev4
Acorn_rev2 has FIXED green screw terminal blocks
Acorn_rev3 has REMOVABLE green screw terminal blocks
Acorn_rev4 has LED indicators for the Inputs and Outputs

ACORN I/O	1	2	3	4
INPUTS	HomeAll	LimitAll		
OUTPUTS				
ACORN I/O	5	6	7	8
INPUTS	SpindleOK	ProbeDetect	ProbeTripped	EStopOK
OUTPUTS				

GECKODRIVE
G201 10u STEP DRIVE

POWER GND
+24 TO 80VDC
PHASE A
PHASE B
PHASE C
PHASE D
DISABLE
DIR
STEP
COMMON
CURRNET SET
CURRNET SET

24 TO 80 VDC
MOTOR CABLE

DIRECTION
STEP
+5VDC

E-STOP SWITCH
(NORMALLY CLOSED)
COM
E-STOP SIGNAL

Normally closed switches are wired in series and normally open switches are wired in parallel when using Home All.

SPINDLE OK
PROBE DETECT
PROBE SIGNAL
E-STOP SIGNAL

H1 IN5 IN6 IN7 IN8 24 IN
H2 ST1 DR1 EN1 COM ST2 DR2 EN2 COM
H3 ST3 DR3 EN3 COM ST4 DR4 EN4 COM
+24 HB

H4
+24VDC
24 IN
IN4
IN3
IN2
IN1

LIMIT ALL/LIMIT SWITCHES
HOME ALL/LIMIT SWITCHES

FOR EASIER WIRING,USE
DB25 BREAKOUT BOARD

GND 14 15 16 17 18 19 20 21 22 23 24 25
13 12 11 10 9 8 7 6 5 4 3 2 1

H6

H6
COM
Output 4 17
Output 3 16
Input 5 15
Output 2 14
25 Input 4 13
24 Input 3 12
23 Input 2 11
22 Input 1 10
21 Direction 4 9
20 Step 4 8
19 Direction 3 7
18 Step 3 6
Direction 2 5
Step 2 4
Direction 1 3
Step 1 2
Output 1 1
Chassis GND

P10
PIN 9 = +5VDC
PIN 8 = B
PIN 7 = A
PIN 6 = Z
PIN 5 = B\
PIN 4 = A\
PIN 3 = Z\
PIN 2 = COM
PIN 1 = N/C

Acorn CNC
PN:14445

H10 OUTPUT STATES 1 2 3 4 5 6 7 8
COM
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
OUT7
OUT8
5V
H10
TO RELAY BOARD

+24VDC
COM
PIN3: DIRECTION 1
PIN 2: STEP 1

P10

H8 AN GND AN OUT
FROM SPINDLE ENCODER
VFD/0-10VDC COM
VFD/0-10VDC

ETHERNET
ACORN
190201
SHIELDED ETHERNET CABLE FROM PC

H9 CHASSIS COM COM +24VDC +24VDC

+5VDC
COM
+24VDC
COM
+24VDC

110VAC
BLK
WHT
GRN
GRN
YEL
BLK
MEANWELL
RD-35B
L
N
V2 (+24 VDC) 1.0A
COM
V1 (+5 VDC) 2.2A

+5VDC
+5VDC

E-STOP CIRCUITS ARE RED
OPTIONAL CONNECTIONS ARE BLUE
GROUNDS ARE GREEN
110VAC IS VIOLET