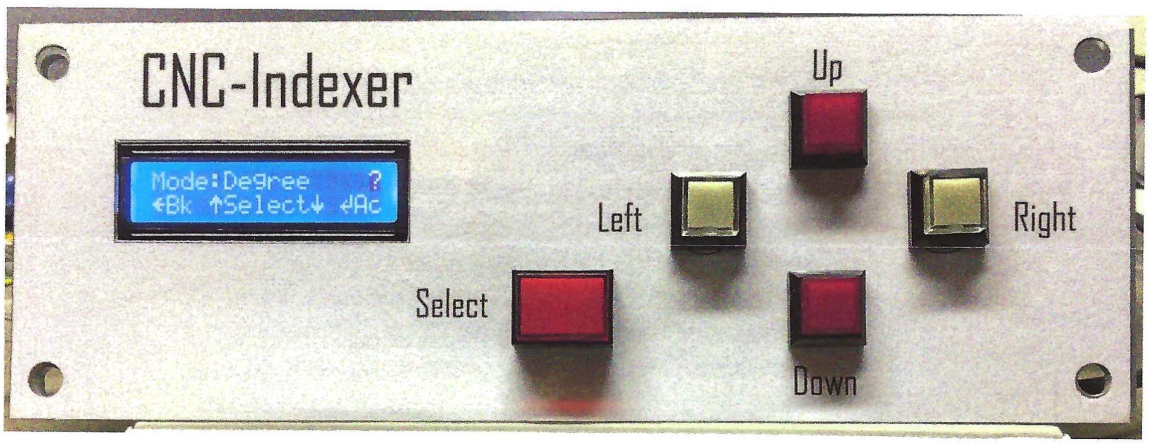
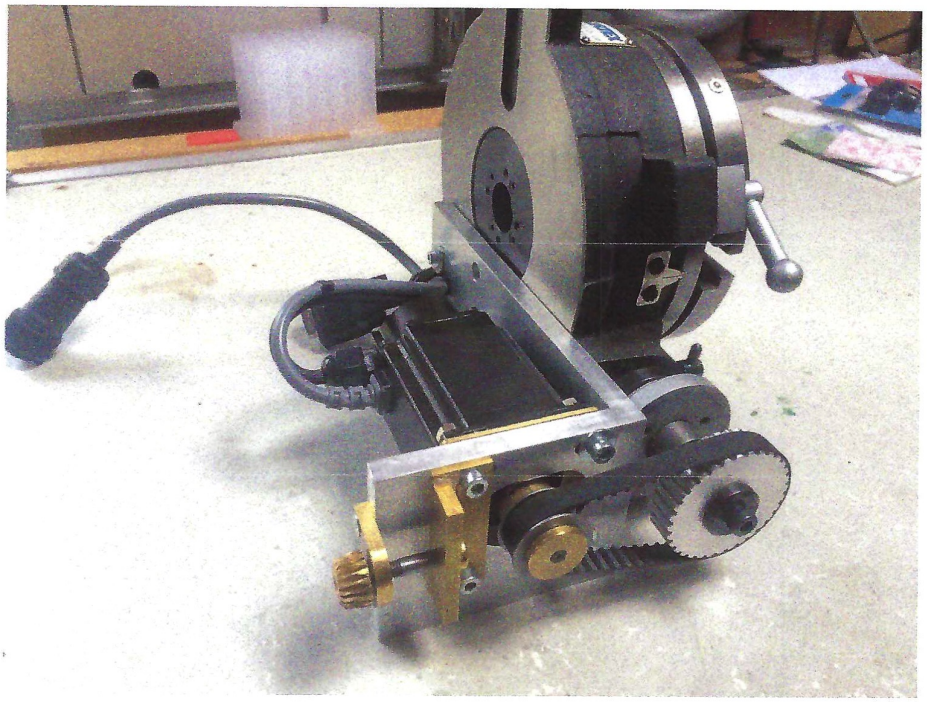
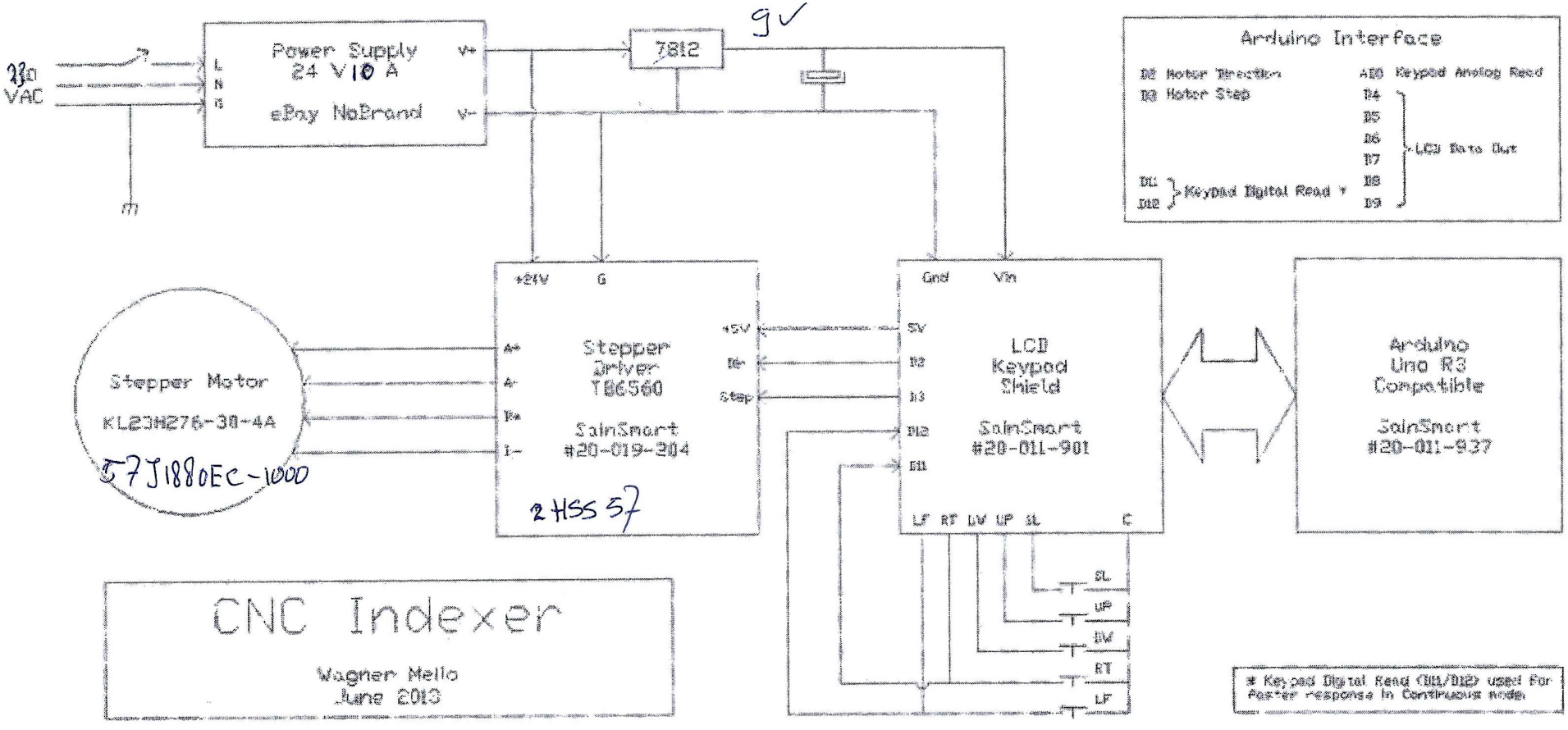
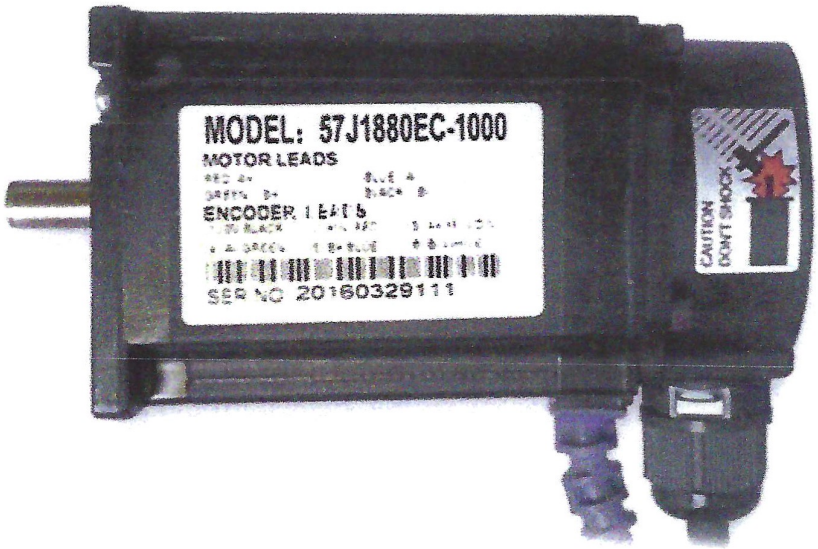
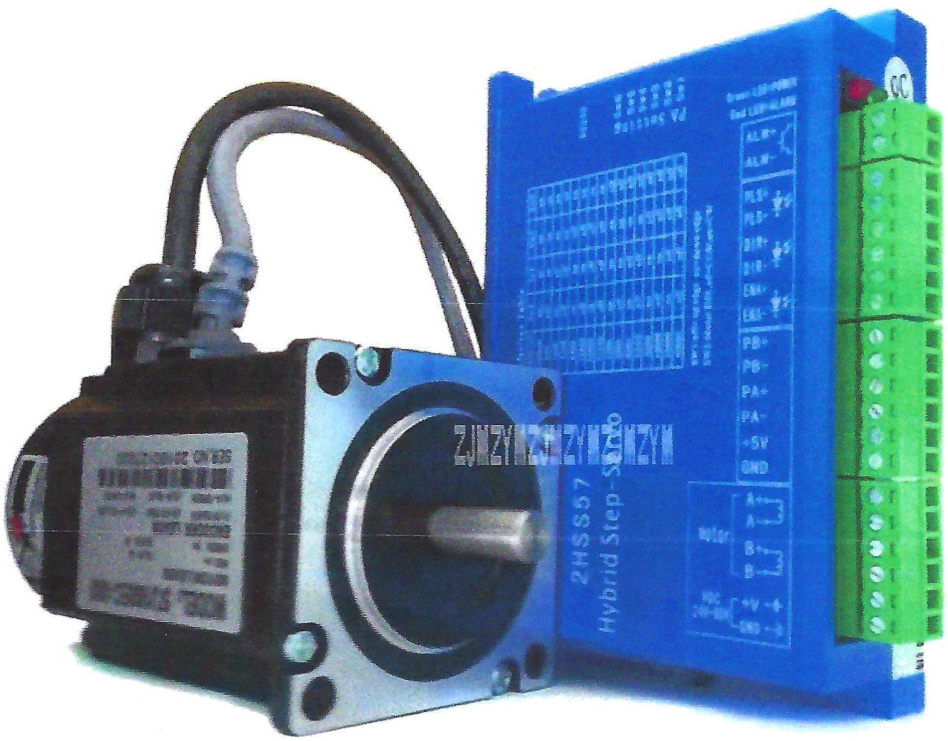
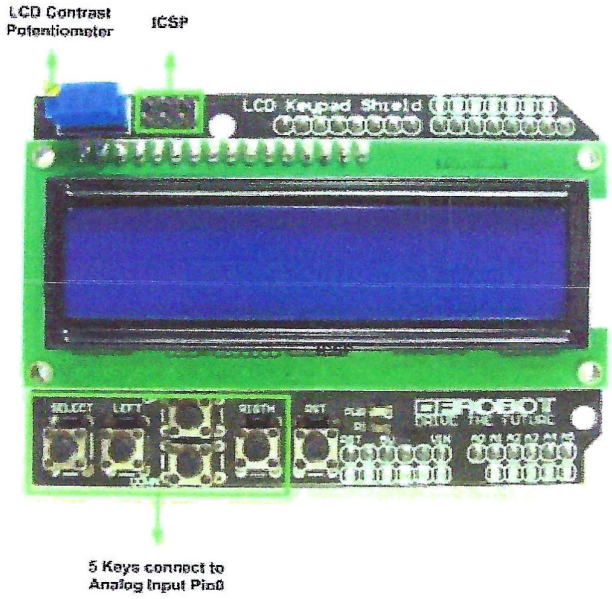

CNC-Indexer
Mode:Degree ?
←Bk ↑Select↓ ↵Ac
Up
Left
Right
Select
Down

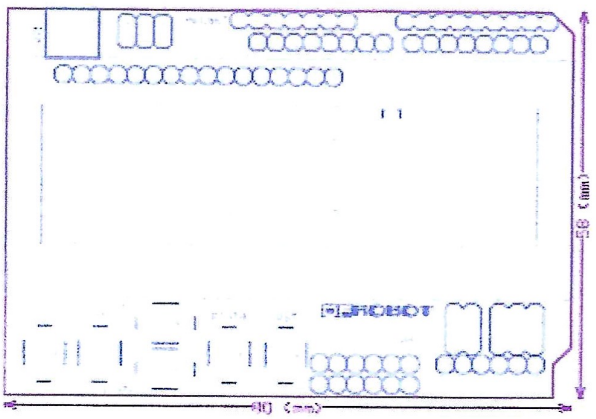



220 VAC
L
N
G
Power Supply
24 V 10 A
eBay NoBrand
V+
V-
7812
9V
Arduino Interface
D2 Motor Direction
D3 Motor Step
D4
D5
D6
D7
D8
D9
LCD Data Out
D11
D12
Keypad Digital Read *
A00 Keypad Analog Read
+24V
G
A+
A-
B+
B-
Stepper Motor
KL23H276-30-4A
57J1880EC-1000
Stepper
Driver
TB6560
SainSmart
#20-019-204
2HSS57
+5V
Dir
Step
Gnd
Vin
5V
D2
D3
D12
D11
LCD
Keypad
Shield
SainSmart
#20-011-901
LF RT LV UP SL C
Arduino
Uno R3
Compatible
SainSmart
#20-011-937
SL
UP
LV
RT
LF
CNC Indexer
Wagner Mello
June 2013
* Keypad Digital Read (D11/D12) used for faster response in Continuous mode.


MODEL: 57J1880EC-1000
MOTOR LEADS
ENCODER LEADS
CAUTION
DON'T SHOCK

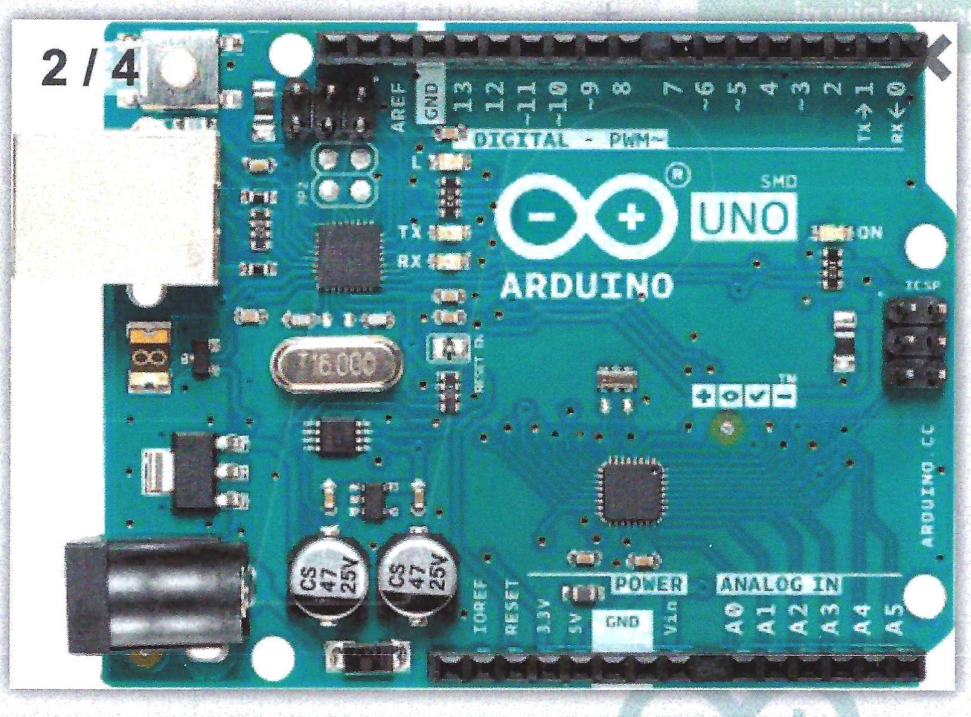

2HSS57
Hybrid Step-Servo





Pin Allocation

Pin	Function
Analog 0	Button (select, up, right, down and left)
Digital 4	DB4
Digital 5	DB5
Digital 6	DB6
Digital 7	DB7
Digital 8	RS (Data or Signal Display Selection)
Digital 9	Enable
Digital 10	Backlit Control


DIGITAL - PWM~
ARDUINO
UNO
SMD
POWER
ANALOG IN
ICSP
ON
TX
RX
AREF
GND
IOREF
RESET
3.3V
5V
Vin
A0
A1
A2
A3
A4
A5
ARDUINO.CC

CNC-Indexer | Arduino 1.8.19

CNC-Indexer

```
/*****************************************************************************/
/*                                                                           */
/*                              CNC Indexer                                  */
/*                                                                           */
/*                          Wagner Mello May 2013                            */
/*                                                                           */
/*****************************************************************************/

//  v4: July 29 2013 : Bug backlash solved
//  V3: July 13 2013 : Bug newdeg%360 solved
//  V2: July 12 2013 : Bug dJog=0 solved


#include "arduino.h"

#include <Wlcd.h>
#include <Wstepper.h>
#include <EEPROM.h>

Wlcd lcd=Wlcd(2);
WStepper stp=WStepper();

#define KRT  1
#define KUP  2
#define KDW  3
#define KLF  4
#define KSL  5

#define CW   0
#define CCW  1


/*****************************************************************************/

int Stt;

int Cur;
int Key;

int Div;

long pStp;                              // Actual position (Steps)
long pDeg;                              // Actual position (Degrees x 1000)
long cDeg;                              // Calculated position (Degrees x 1000)

long sRot;                              // Steps per revolution
long sBkl;                              // Backlash (Steps)
float sVel;                             // Velocity (Steps/Second)
float sAcc;                             // Acceleration (Steps/Second²)

struct Cnf
{
 int Mod;                               // Mode
 int Stp;                               // Full steps per revolution
 int Mst;                               // Microstepping mode
 int Red;                               // Reduction gears
 int Mvl;                               // Maximum velocity (Degrees/Minute)
 int Acc;                               // Acceleration (Degrees/Second²)
 int Bkl;                               // Backlash (Degres x 1000)
 int nDiv;                              // Division mode, number of divisions
 long dDeg;                             // Degree mode, step (Degrees x 1000)
 long dJog;                             // Jog mode step (Degrees x 1000)
}Cnf;

```

Internet "CNC indexer arduino wagner"