NOTE
REMOVAL OF
FRONT GUARD
SWITCH

F1
Mains 6A

SW1
E–Stop

SW3A
REVERSING SW
RIGHT
O
LEFT

SW2
Latching Power Sw

FL1
MAINS FILTER

MAINS IN

NOTE
WIRING
CHANGE

DO NOT TRUST THE LIVE/NEUTRAL COLOUR CODES
THEY ARE ONLY THERE TO PROMOTE A SENSE OF SECURITY
BEFORE THEY KILL YOU

F2
Motor 6A

SW3B

SW3C

M1
Motor

RV1
4K7 SPEED HV

DC Speed Controller
BC2000–TB

L
N
A+
A–
P3
I1
P1

Chopper

Speed Display

The wiring of the new controller is by breaking the connections on the old wiring and the connections are indicated by the round terminals.

A connects to A etc.

The reversing switch SW3A–C is a purpose built item so it is simpler to wire. Naturally the CAD package doesn't have one in its library so what I have drawn is what it does and I have done the pins.

FORWARD REVERSE MODULE

K2
ON–LINE

K3
CCW

D1
CCW

D2

D3

D4

D5
ON

GREEN

BLUE

J2

BLACK	1	GND
RED	2	ON_LINE
GREEN	3	CCW
ORANGE	4	SPINDLE
YELLOW	5	PWM
WHITE	6	SPEED

INPUTS
ON GND CCW
K3 CCW
K2 ON LINE
+ – + GRN BLK BLUE
LAMPS

A RED
B BLACK
C GREEN
D BLUE
E WHITE
F YELLOW

Forward/Reverse module pinouts

GREEN
BLUE
BROWN
VCC
OUT
GND
SPEED SENSOR

PWM MODULE

U1
PC817

R1
2K2

RV3
10K

R2
4K7

R3
1K

C1
10uF 50V

TP1
TP2

K1
ON–LINE

U2
SSR–25 DA

24V
0V
24V PSU
P
H

PWM module pinouts

24V in
+ –
PWM GND ON
RV3
K1 ON
oTP2
oTP1
N M L K J
BLUE
YELLOW
GREEN

Additions to Mill Motor Control panel to include remote on/off, reversing and speed control via PWM.

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