B57 Servo Board Wiring Diagram

24V power supply
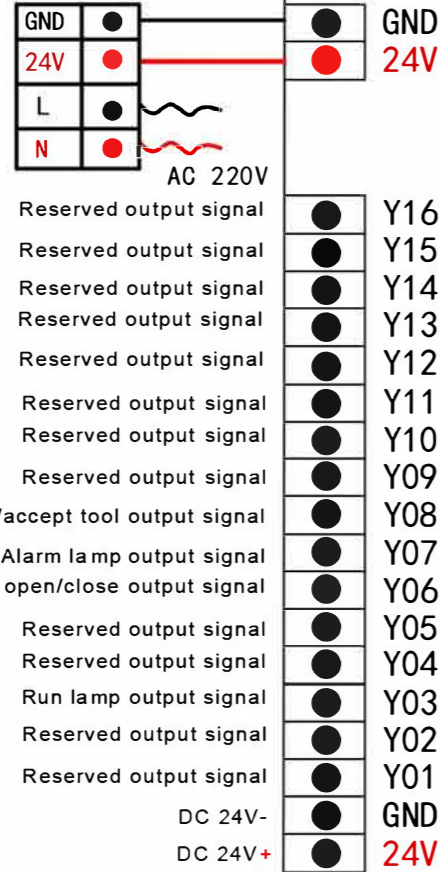
AC 220V

GND	
24V	
L	
N	

**Output port definition**

Description	Port
Reserved output signal	Y16
Reserved output signal	Y15
Reserved output signal	Y14
Reserved output signal	Y13
Reserved output signal	Y12
Reserved output signal	Y11
Reserved output signal	Y10
Reserved output signal	Y09
Release/accept tool output signal	Y08
Alarm lamp output signal	Y07
Dust hood open/close output signal	Y06
Reserved output signal	Y05
Reserved output signal	Y04
Run lamp output signal	Y03
Reserved output signal	Y02
Reserved output signal	Y01
DC 24V-	GND
DC 24V+	24V

GND / 24V

Handwheel interface

Spindle interface

A axis servo interface

Z axis servo interface

Y axis servo interface

X axis servo interface
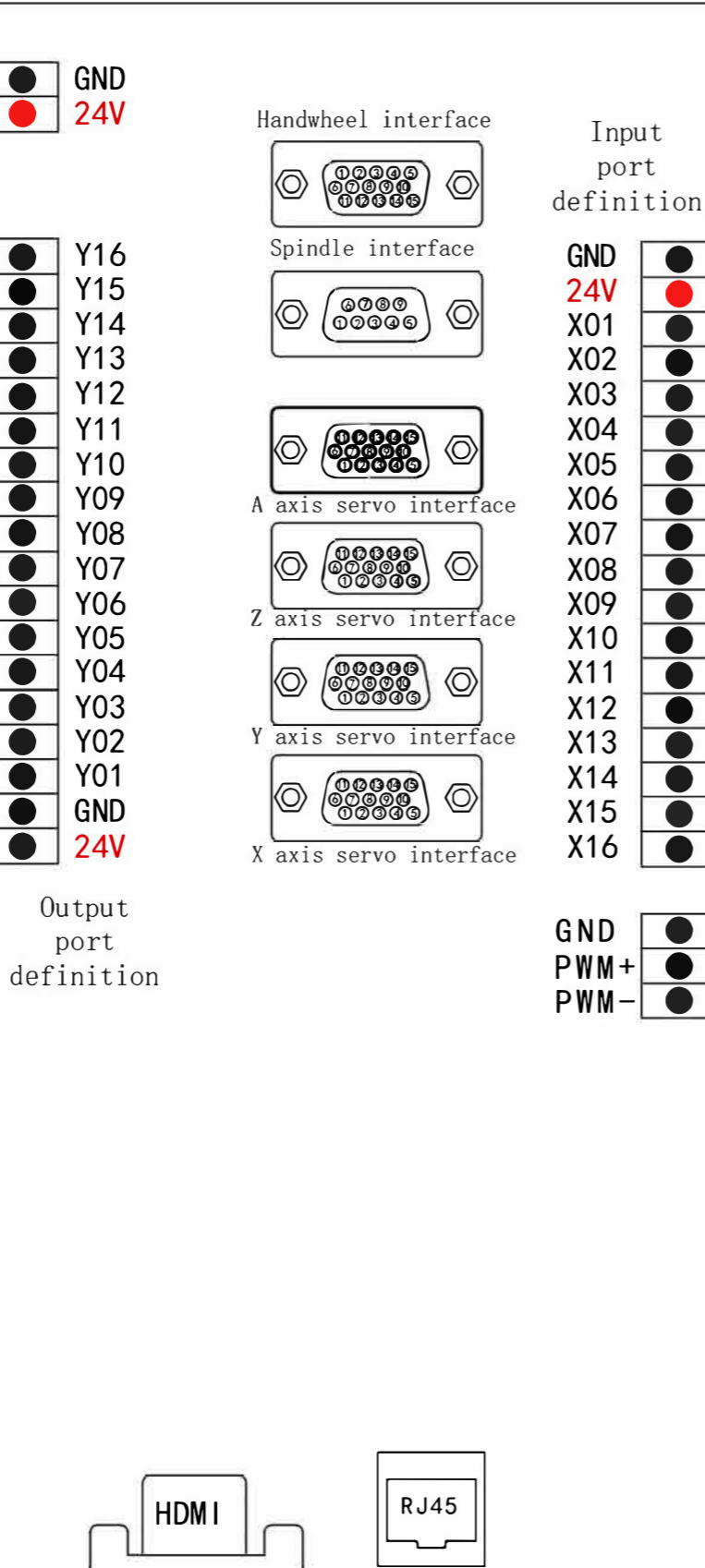
Input port definition

| Port	Description
GND	DC 24V-
24V	DC 24V+
X01	X HOME input signal
X02	Y HOME input signal
X03	Z HOME input signal
X04	Tool setter input signal
X05	Spindle alarm input signal
X06	Servo driver alarm
X07	E-stop switch input signal
X08	Foot pedal input signal
X09	Air pump pressure sensor input signal
X10	Manually release/accept tool input signal
X11	Cylinder put in place signal (Not enabled)
X12	Waiting spindle off signal
X13	Tool released signal
X14	Tool accepted signal
X15	Dust hood open input signal
X16	Spindle with or without tool input signal
GND	Ground
PWM+	PWM output signal+
PWM-	PWM output signal-

HDMI   RJ45
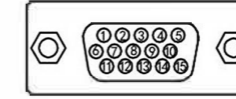
Handwheel interface pin definition

1	HX1	handwheel speed ratio X1
2	HX10	handwheel speed ratio X10
3	HX100	handwheel speed ratio X100
4	GND	return circuit ground
5	5V	5v
6	ESTOP	handwheel E-stop switch
7	HSX	handwheel axis selection X
8	HSY	handwheel axis selection Y
9	HSZ	handwheel axis selection Z
10	HS4	handwheel axis selection 4
11	HA+	handwheel encoder A+
12	HA-	handwheel encoder A-
13	HB+	handwheel encoder B+
14	HB-	handwheel encoder B-
15	HS5	handwheel axis selection 5
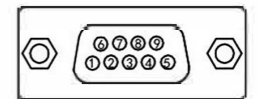
Spindle interface pin definition

1		N/A
2	INALM2	Inverter alarm input 2
3	SP CCW	SP CCW(SP2 CW)
4	SP CW	SP CW(SP1 CW)
5		N/A
6	OA1	Spindle anolog output 1
7	OA2	Spindle anolog output 2
8	INALM1	Interver alarm input 1
9	GND	Return circuit ground

Mechanical HOME switch

X04	
X03	
X02	
X01	
GND	
24V	

Spindle Motor
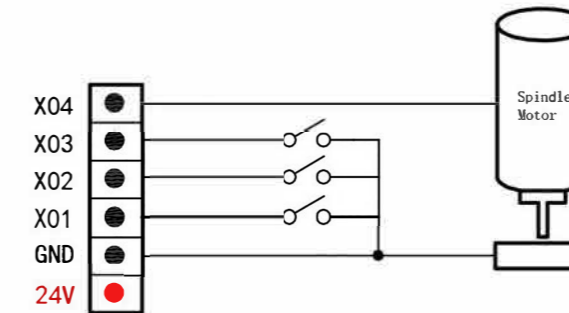
Photoelectric HOME switch

GND	
24V	
X01	
X02	
X03	

Proximity switch NPN type

BN
BK
BU

X axis servo interface

Servo axis interface pin definition

1	A+	servo encoder A+
2	A-	servo encoder A-
3	B+	servo encoder B+
4	B-	servo encoder B-
5	C+	servo encoder C+
6	24V	24V+
7	C-	servo encoder C-
8	ALM	servo alarm input
9	SRV ON	servo enable
10	SRV CLR	servo alarm clear
11	PULS+	pulse difference+
12	PULS-	pulse difference-
13	SIGN+	pulse direction+
14	SIGN-	pulse direction-
15	GND	24V return ground

Model No.	B57 ATC motion control system