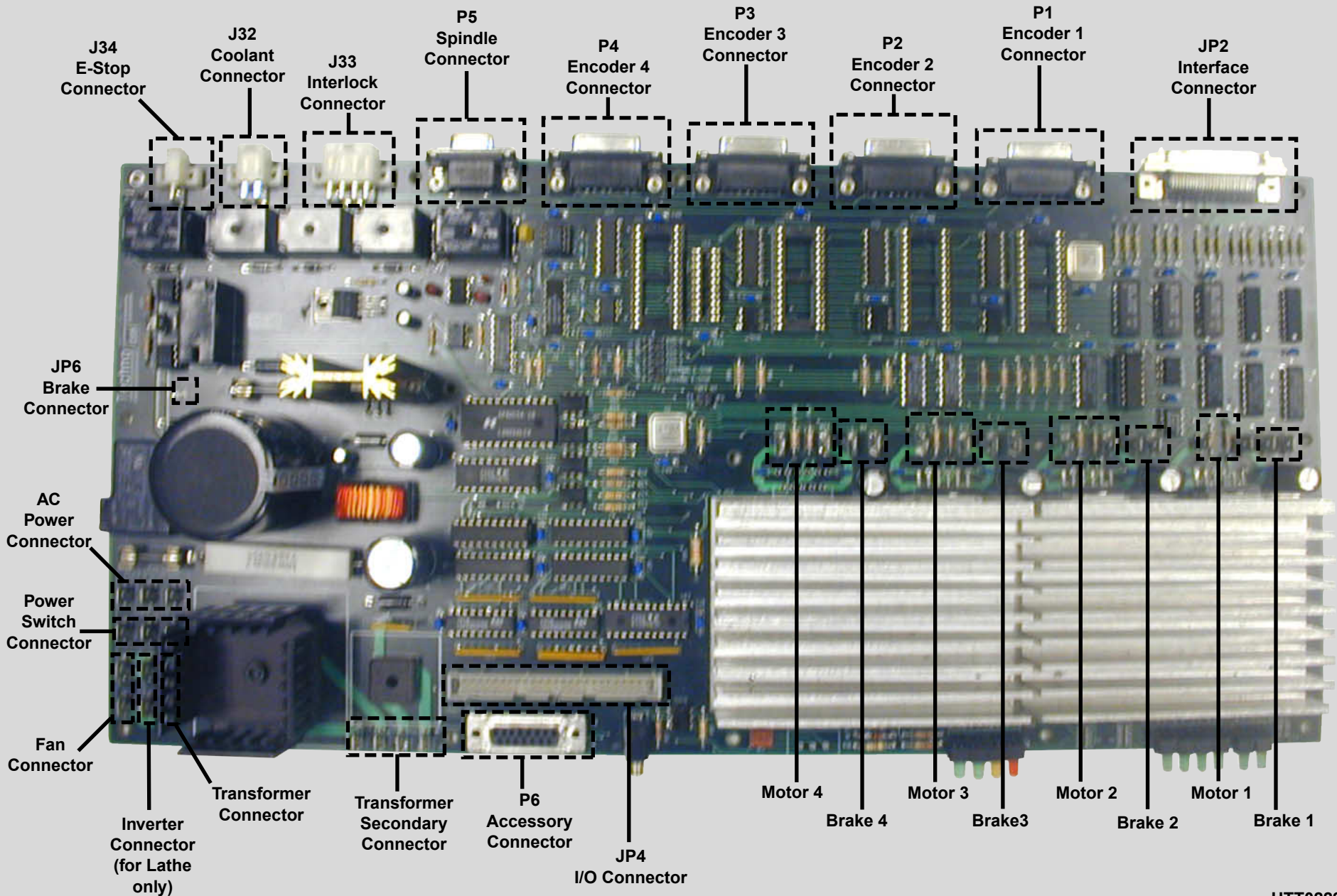


LC Series and Lathe Control Board Callouts



H90Z17-SRVCTRL01 SERVO CONTROLLER CONNECTOR PINOUTS

ENCODER CONNECTORS

P1, Encoder 1
P2, Encoder 2
P3, Encoder 3
P4, Encoder 4

Pin	Function
1	E-Stop Loop
2	Encoder Phase A
3	Encoder Phase B
4	Encoder Z
5	Encoder +5V
6	Home Switch Input
7	NC
8	+24V
9	NC
10	Encoder Phase -A
11	Encoder Phase -B
12	Encoder -Z
13	Encoder GND
14	Home Switch GND
15	E-Stop Loop

Motor and Brake Connectors

J31 Brake 1+
J30 Brake 1-
J20 Motor 1+
J21 Motor 1-

J29 Brake 2+
J28 Brake 2-
J18 Motor 2+
J19 Motor 2-

J27 Brake 3+
J26 Brake 3-
J16 Motor 3+
J17 Motor 3-

J25 Brake 4+
J24 Brake 4-
J14 Motor 4+
J15 Motor 4-

Spindle Connector P5

Pin	Function
1	Relay Contact 1
2	Relay Contact 1 Interlocked
3	NC
4	Analog (CNC Lathe configuration only)
5	Inverter fault input
6	Relay contact 2
7	+24V
8	GND
9	Spindle stopped input

Interlock connector J33 (used for CNC Lathe configuration only)

Pin	Function
1	+24V
2	Interlock Solenoid
3	Interlock Switch 1
4	GND
5	Interlock Switch 2
6	GND
7	Interlock Switch 3 Term 1
8	Interlock Switch 3 Term 2

Coolant Connector J32

Pin	Function
1	Relay Contact 1
2	Relay Contact 2
3	+24V
4	GND

Emergency Stop Connector J34

Pin	Function
1	Switch terminal 1
2	Switch terminal 2

Brake Release Switch JP6

Pin	Function
1	Switch Terminal 1
2	Switch Terminal 2

Transformer Connectors

Terminal Designation	Function
J12	Transformer Primary N Out to transformer
J13	Transformer Primary L Out to transformer Voltage out is Line voltage, 120VAC or 220 VAC depending on configuration
J2	Transformer Secondary 1 31VAC in from transformer
J1	Transformer Secondary 1
J3	Transformer Secondary 2 18VAC in from transformer
J4	Transformer Secondary 2

Fan Connectors

Terminal Designation	Function
J22	N
J23	L Voltage out is line voltage 120VAC or 220VAC depending on configuration

Power Switch Connectors

Terminal Designation	Function
J7	N for Lamp
J8	Line in unswitched
J9	Line out switched

AC Power Connectors

Terminal Designation	Function
J5	N
J6	L
J38	GND

I/O Connector JP4

All even numbered pins are GND

Pin	Function
1	IN15
3	IN14
5	IN13
7	IN12
9	IN11
11	IN10
13	IN9
15	IN8
17	IN7
19	IN6
21	IN5
23	IN4
25	IN3
27	IN2
29	IN1
31	IN0
33	OUT7
35	OUT6
37	OUT5
39	OUT4
41	OUT3
43	OUT2
45	OUT1
47	OUT0
49	+5V

Accessory Connector P6

Pin	Function
1	IN8
2	IN9
3	IN10
4	IN11
5	IN12
6	IN13
7	IN14
8	IN15
9	OUT4
10	OUT5
11	OUT6
12	OUT7
13	+5V
14	+24V
15	GND