

1225 Main Board, 6890N

General board layout

The test points on the G1530-60200 main board are shown in Figure 1225-1. Some additional parts are included to assist in locating the test points.

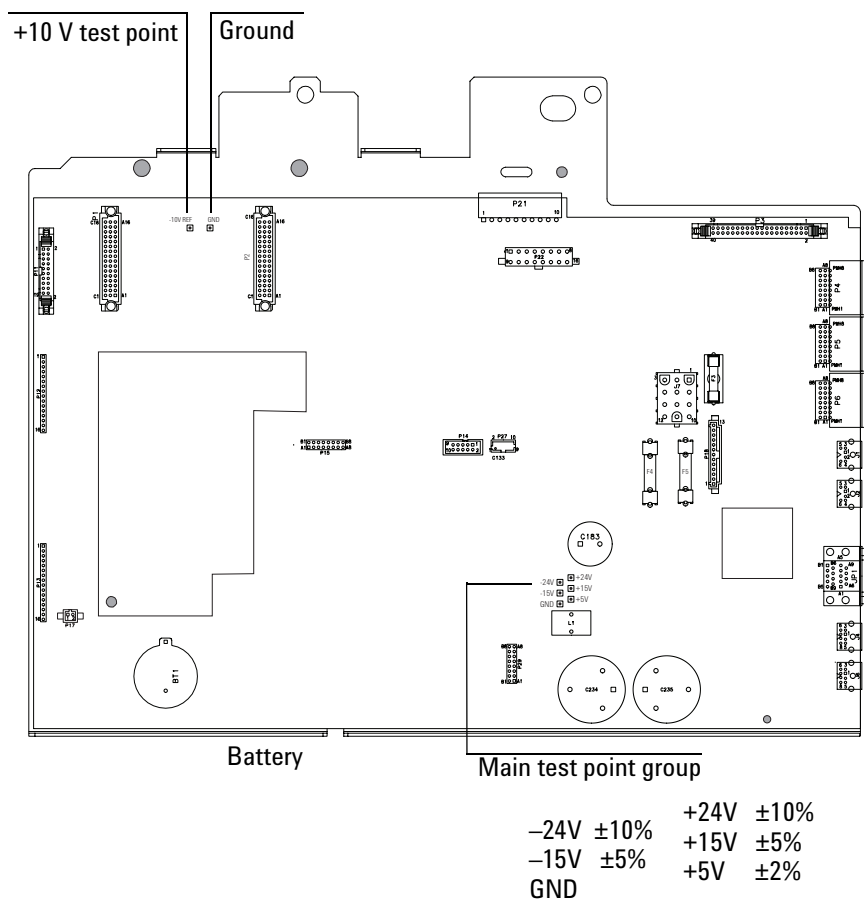


Figure 1225-1 Main board test points and battery, 6890N

Check the +10 V test point to determine if detector, A/D, and D/A circuitry is operating.

If the instrument appears dead and there is no 24 V voltage:

1. Check AC power
2. Check fuses at F4 and F5.

If thermal shutdown occurs or if the detectors are not working:

1. Check the -15 V voltage. If not present, A/D functionality will not work.
2. Unplug the detectors and the EPC board.
3. Recheck the -15 V voltage. If it returns, the problem may be in the detector or EPC board.

Connectors

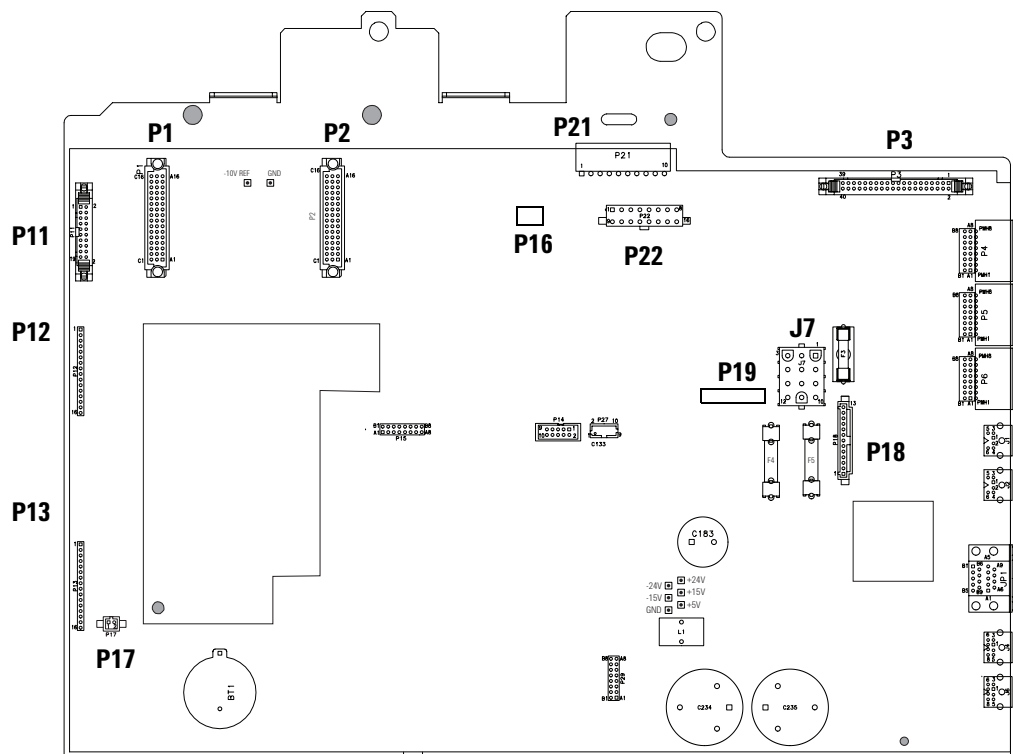


Figure 1225-2 Main board connectors, 6890N

Table 1225-3 Main Circuit Board Pinouts

J7—AC Power			P21—Inl/Det Htd Zones, man split valves		
1	Heater 40 VAC (VIOLET)		1	Sensor GND	<p>Connects to: G1530-60640 (Inlet/Detector harness)</p>
2	unused		2	Sensor GND	
3	Heater 40 VAC (ORANGE)		3	Sensor GND	
4	unused		4	Sensor GND	
5	Heater Center Tap (GRAY)		5	Heater GND	
6	unused		6	Heater GND	
7	ALS power 24 VAC (RED)		7	Heater GND	
8	Heater Center Tap (WHITE)		8	Heater GND	
9	ALS power 24 VAC (RED)		9	+24 Volts	
10	20 VAC (YELLOW)		10	+24 Volts	
11	20 VAC Center Tap (BLUE)		11	FRONT INJ SENSOR	
12	20 VAC (YELLOW)		12	BACK INJ SENSOR	
P16—Oven sensor			13	FRONT DET SENSOR	
1	Oven sense		14	BACK DET SENSOR	
2	Ground		15	FRONT INJ HEATER	
P17—Oven door switch			16	BACK INJ HEATER	
1	Oven door		17	FRONT DET HEATER	
2	Ground		18	BACK DET HEATER	
P18—Inlet fan, oven flap, oven cryo			19	FRONT INJ +24V VALVE	
1	Oven Flap Drive (WHITE)		20	BACK INJ +24V VALVE	
2	Oven Flap Drive (BLACK)		P22—Valve box, Aux heated zones		
3	Oven FLAP +24 V (WHT/BLU)		1	AUX 1 SENSOR	<p>Connects to: G1530-60660 (Auxiliary Zone/Valve Box harness)</p>
4	Oven FLAP +24 V (WHT/BLK)		2	AUX 2 SENSOR	
5	Oven Flap Drive (BLUE)		3	HEATER GND	
6	Oven Flap Drive (RED)		4	HEATER GND	
7	Inlet Fan +24 V (ORANGE)		5	+24 Volts	
8	Inlet Fan Drive (YELLOW)		6	+24 Volts	
9	Oven Cryo +24 V (GRAY)		7	+24 Volts	
10	CO2 Cryo Installed (VIOLET)		8	+24 Volts	
11	N2 Cryo Installed (GREEN)		9	SENSOR GND	
12	GND		10	SENSOR GND	
13	Oven Cryo Drive (WHT/RED)		11	AUX 1 HEATER	
P19—AC board control			12	AUX 2 HEATER	
1	Oven Relay Drive		13	VALVE #1	
2	Oven Triac Drive		14	VALVE #2	
3	+24 Volts		15	VALVE #2	
4	common w/ pin 2		16	VALVE #4	
5	common w/ pin 1				

Fuses

There are three replaceable fuses:

I.D.	Description	System	Power rating	Part no.
F3	Ceramic	Autosampler	5A/250V	2110-0709
F4	Glass/Type F	±24 Volt	8A/250 V	2110-0036
F5	Glass/Type F	±24 Volt	8A/250 V	2110-0036

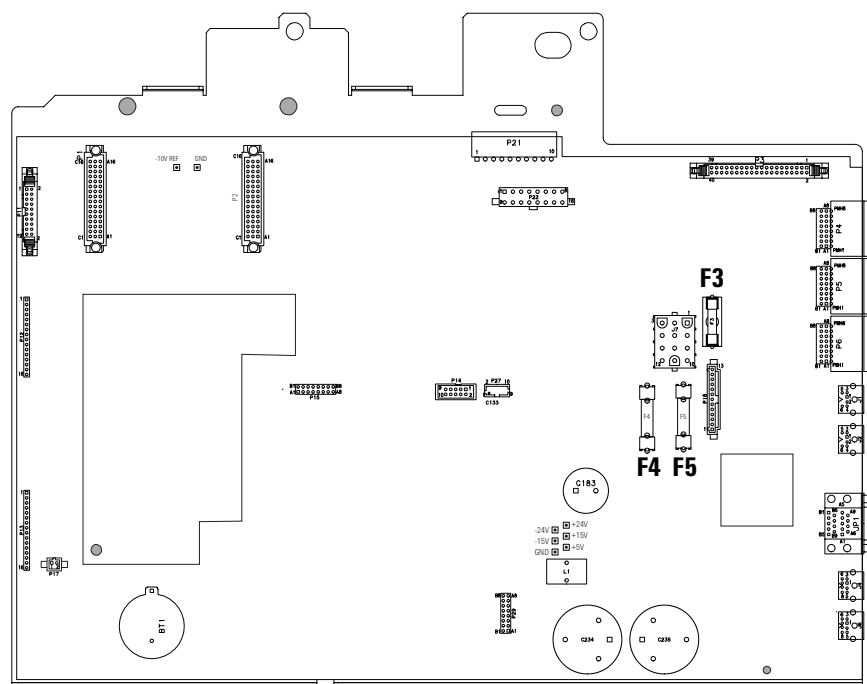


Figure 1225-3 Fuse locations, G1530-90200

Fuses
