

# Low Oil Controller 200 Style Enclosure Installation & Operations Manual

The Drive & Control Company

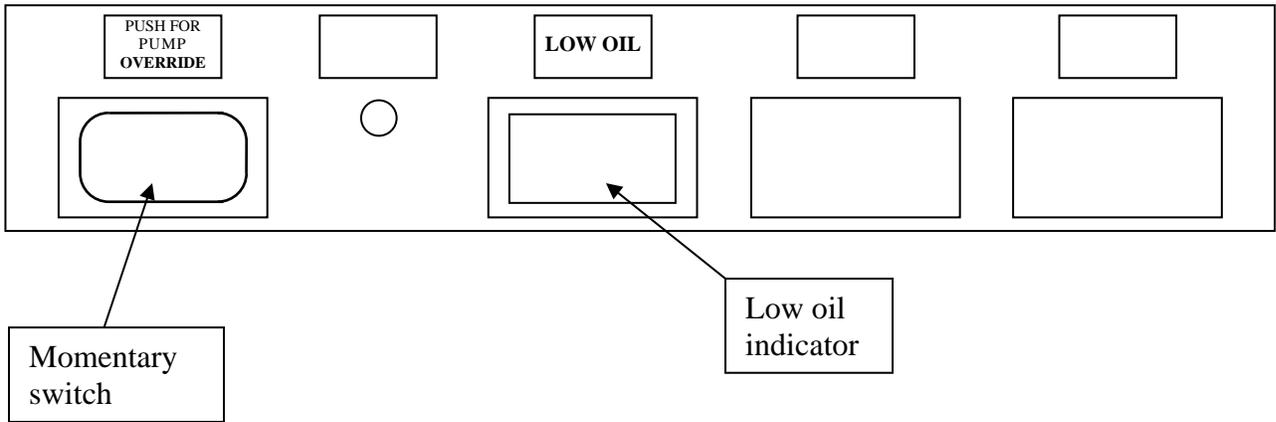


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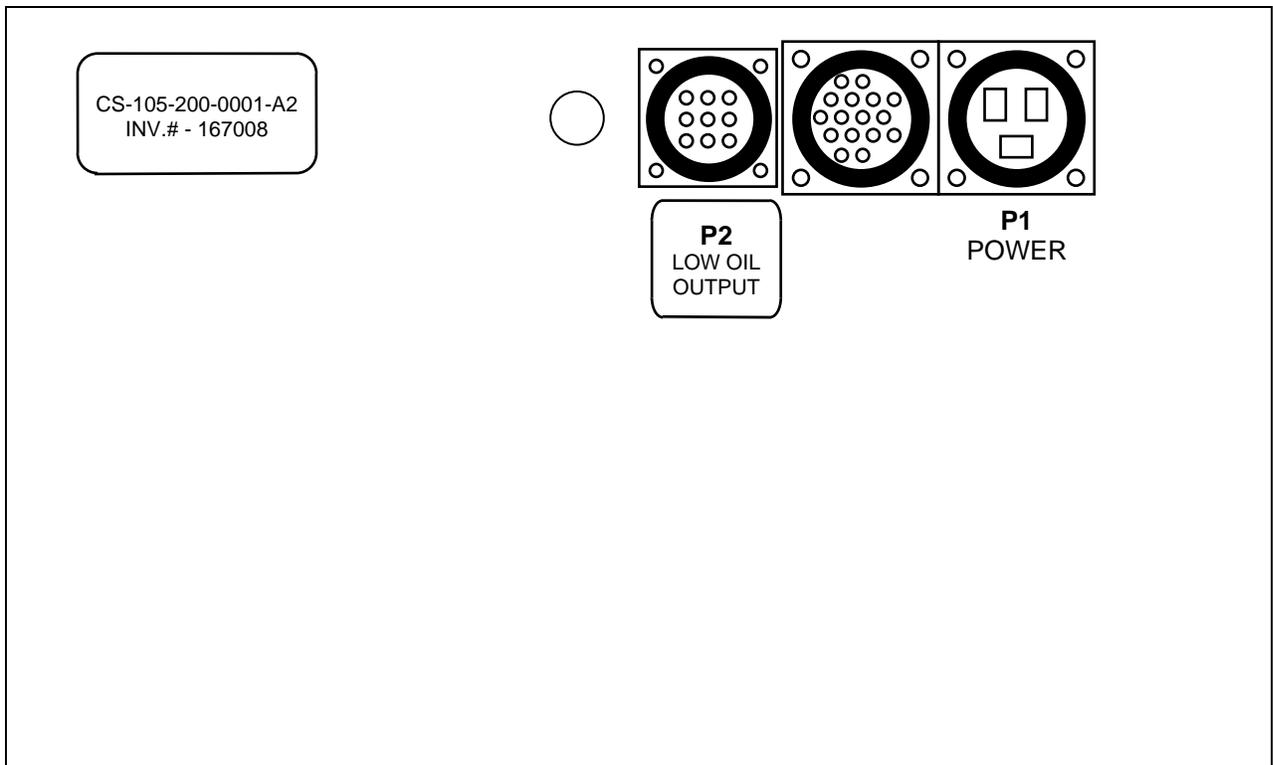
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# SYSTEM LAYOUT

Front view



Bottom view



## INSTALLATION RECOMMENDATIONS

1. Read the power float hydraulics manual before starting the installation.
2. Unpack all the supplied parts and check the packing list for completeness.
3. Untie and layout all the cables supplied, to ensure proper lengths.
4. **Note: Electromagnetic devices**  
*Devices such as relays, magnetic switches and solenoids, can generate large negative voltage spikes. These large spikes are conducted into the vehicle's electrical system and may adversely affect all electronic devices including engine computers. It is strongly recommended that these electromagnetic devices be electrically suppressed. See warnings and instructions in Body Builder manuals.*
5. Connect the Controller 12V power supply and the ground wire using a dedicated circuit only. (directly to the battery)
6. Connect 12V power and ground for all peripheral equipment such as GPS, Material Detection etc., to the same dedicated circuit only.
7. Ensure wiring for transmission devices such as radios, etc. are not attached to the controller or bundled with the controller wiring.
8. Disconnect the battery terminals before welding on a vehicle with electronic equipment.
9. Disconnect the negative battery terminal when wiring electronic devices
10. Mount the consoles so that they do not interfere with vehicle controls or obstruct visibility.
11. Route cables so that they will not be abused or damaged.
12. When routing cables through metal opening, always use grommets to prevent cable damage.
13. When running wires around a dump box pivot point, ensure no connectors can be separated when the hoist is activated.
14. Tie wrap cables clear of all moving parts like drive-axles or conveyor chains.
15. Observe the cable labeling for the proper termination of inputs and outputs.
16. Use dielectric grease on all external cable connections and pins to ensure proper corrosion protection.
17. Thoroughly clean all power and ground terminals before connecting power harness.
18. Stand clear of any hydraulic functions when first powering up the system
19. DO NOT drill holes in any of the enclosures.
20. DO NOT attempt to mount components onto the sides, top or front of the console.
21. DO NOT attempt to re-wire any of the consoles.

**Failure to follow the recommendations will void your warranty**

## CONNECTION INSTRUCTIONS

P1 CABLE PIN-OUTS	FUNCTION
1	+12V
2	GND

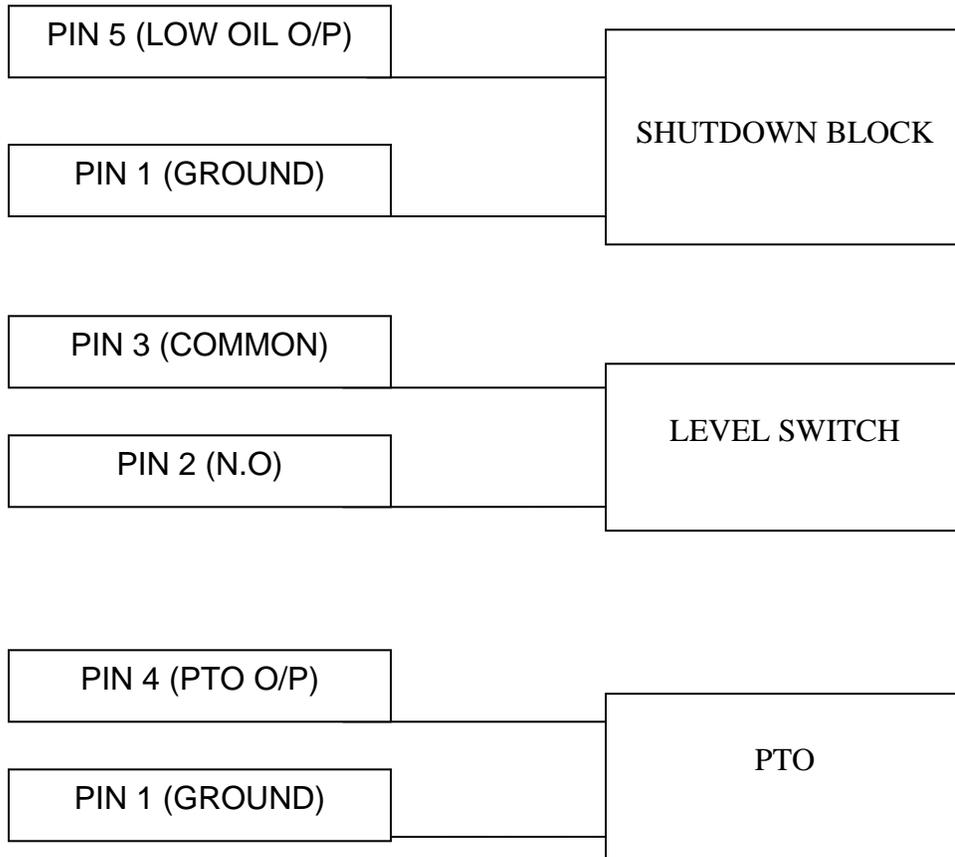
1. Connect +12V lead to battery positive terminal.
2. Connect GND to battery ground.

P2 CABLE PIN-OUTS	FUNCTION
1	GROUND
2	LOW OIL INPUT FROM LEVEL SWITCH
3	12V TO LEVEL SENSOR
4	PTO OUTPUT
5	PUMP OVERRIDE OUTPUT
6	
7	
8	
9	

1. Connect shutdown block across pins 5 and 1, where pin 1 is ground and pin 5 provides the signal to the shutdown block.
2. Connect level switch across pins 2 and 3 where pin 3 is the common (12V) and pin 2 is the low oil input from level switch.
3. Connect PTO across pins 4 and 1 where pin 1 is ground and pin 4 is the output to the PTO.

**Note: Pin 1 must be grounded to chassis along with solenoid.**

# CONNECTION DIAGRAM



N.O: Normally Open  
I/P: INPUT  
O/P: OUTPUT

## OPERATION INSTRUCTIONS

- The low oil level switch sends 12V to PIN 2 on P2 CABLE of the low oil controller when it senses low oil pressure.
- The low oil indicator on the console will light up to indicate that.
- The low oil controller will send a signal to the shutdown block through pin 5 (pump override output).
- You may override the low oil status by pushing the low oil override switch and holding it down.
- To stop overriding, release the low oil override switch.