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ILM - Series

Troubleshooting: ILM Medium Duty Railgate Lift

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Tools needed:

- 1.) Voltmeter
- 2.) Test light
- 3.) 8" jumper cable (16ga. or smaller)
- 4.) Philips Screw driver
- 5.) 13mm (1/2") wrench

*****MAKE SURE YOUR BATTERIES ARE FULLY CHARGED AND IN GOOD CONDITION*****



Always use CAUTION and allow SAFE distance from moving parts

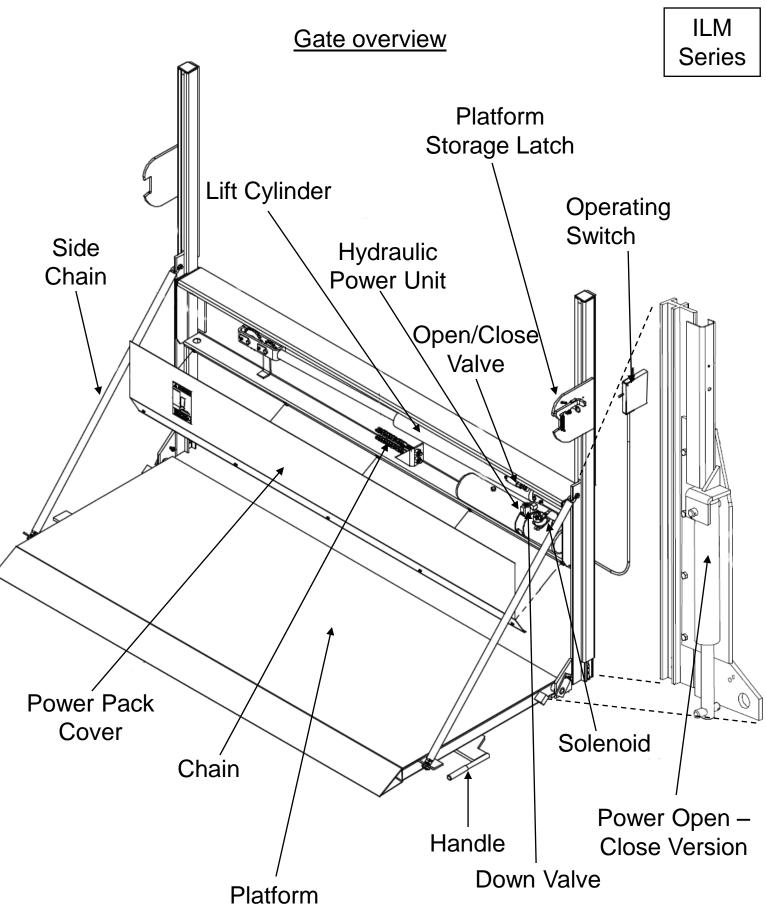
Practice SAFETY, using common sense and good judgment

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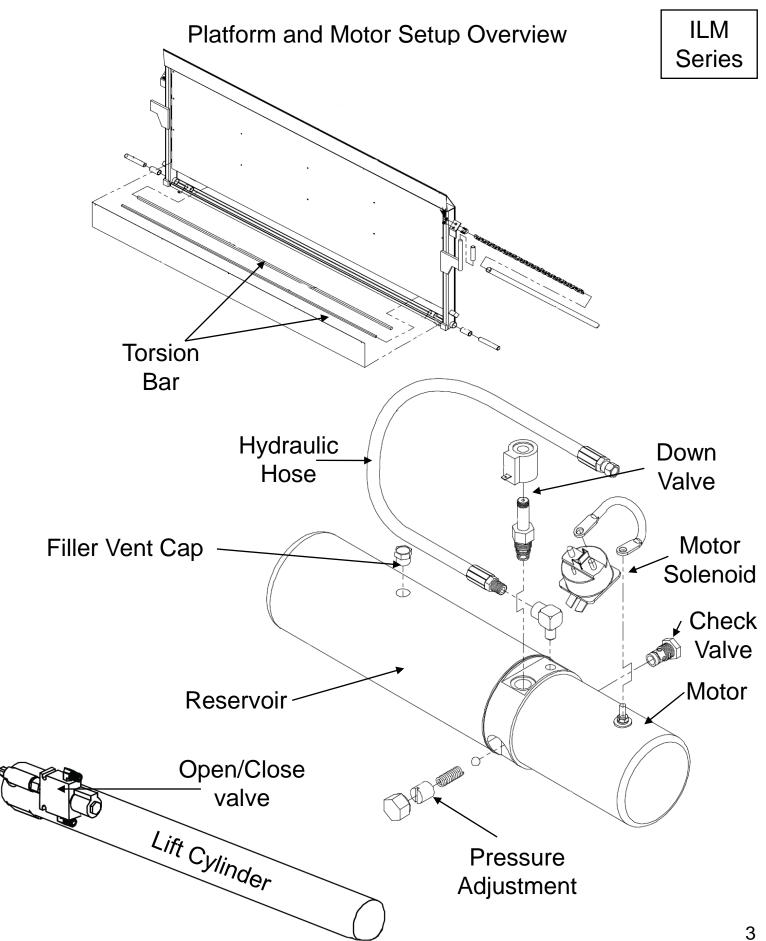


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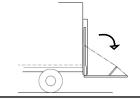
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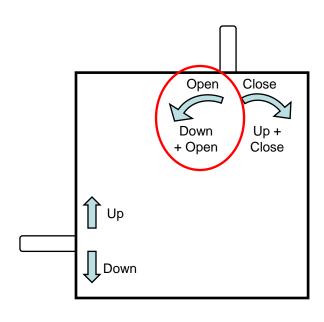
1) GATE DOES NOT OPEN UP

a) Initial Checks

- → Check Master Disconnect is "ON"
- → Check that Circuit Breaker at battery box has not been tripped
- → Check for shorts, ground faults or open circuits, e.g., power lines connected to the ground or a broken cable or connection
- → Check batteries. Batteries should be fully charged and in good condition
- → Check voltage minimum 10 volts at motor when closing or up function is engaged for 10 sec with gate in stored position.

b) Platform is not opening up

- → Check if open/close valve on top of motor and down valve on top of lift cylinder are energized.
 - → If not, check power supply to switches and signal line to valves while activating open function
 - → Valves are energized check grounding of valves
- → Valves are energized, but Platform still does not open
 - → Check coil for damage and magnetic function
 - → Check torsion bars inside of platform behind cover plate for damage and correct adjustment.
 - → Check open /close cylinder for damage or leaks



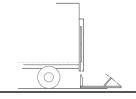
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2) GATE IS NOT LOWERING DOWN





a) Initial Checks

- → Check Master Disconnect is "ON"
- → Check that Circuit Breaker at battery box and inside Pump and motor compartment has not been tripped
- → Check for shorts, ground faults or open circuits, e.g., power lines connected to the ground or a broken cable or connection
- → Check batteries. Batteries should be fully charged and in good conditions
- →Check voltage minimum 10 volts at motor while activating the UP function with gate in upper position

b) Platform is not lowering down

- → Check if down valve on top of motor is energized.
 - → If not, check power supply to up/down switch and signal line to down valve while activating lowering function (check for voltage while activating function)
 - → Valve is energized check grounding of valve and make sure, valve is shifted over (hear click)
- → Valve is energized, but Platform still does not lower down
 - → Check if open/close valve is energized it should NOT be energized.
 - → Shift valve is not energized
 - → Check if flow control valve is contaminated and/or cylinder is damaged

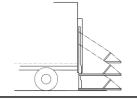
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3) GATE IS NOT RAISING UP





a) Initial Checks

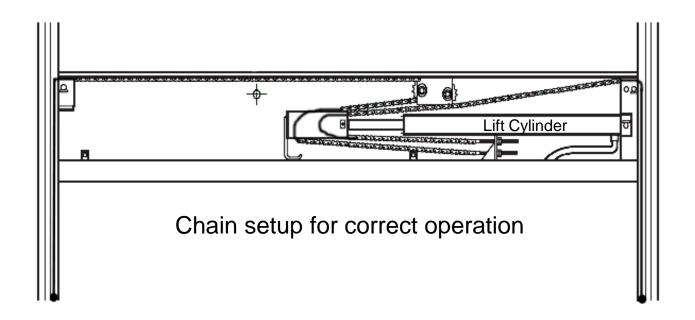
- → Check Master Disconnect is "ON"
- → Check that Circuit Breaker at battery box has not been tripped
- → Check for shorts, ground faults or open circuits, e.g., power lines connected to the ground or a broken cable or connection
- → Check batteries. Batteries should be fully charged and in good condition
- → Check voltage minimum 10 volts at motor after 10 sec holding the switch for closing function. (Deadhead the gate in actual position)

b) Motor does not run

- → Check power supply to up/down switch and for voltage at signal line to motor solenoid while activating up function
- → Check motor solenoid. If it is getting power (small connector at solenoid has voltage) but you do not hear a click, you should change the motor solenoid.
- → You hear it click check if the motor gets power. If yes, check the motor of correct function.

c) Motor runs but platform does not raise

→ Check lift cylinder for damage or chain for broken chain links.

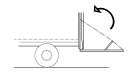


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4) GATE IS NOT CLOSING

a) Initial Checks

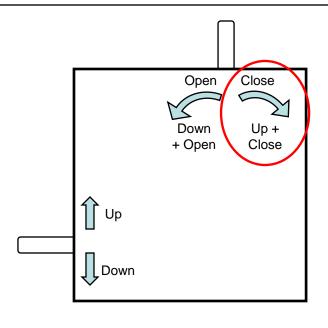
- → Check Master Disconnect is "ON"
- → Check that Circuit Breaker at battery box and fuse inside pump and motor compartment have not been tripped
- → Check for shorts, ground faults or open circuits, e.g., power lines connected to the ground or a broken cable or connection
- →Check batteries. Batteries should be fully charged and in good condition
- → Check voltage minimum 10 volts at motor at while holding the up function for 10 seconds (Deadhead)

b) Motor is not running

- → Check power supply to open/close and up/down switch and for voltage at motor solenoid and open/close valve while activating up function
- → Check motor solenoid. If it is getting power but you do not hear click, you should change the motor solenoid.
- → You hear it click, check if the motor gets power. If yes, check the motor of correct function.

d) Motor is running, but platform does not close

- → Check for power at open/close valve
- → Check cylinder for leaking, loose fittings or contaminated restrictor
- → Check the hydraulic oil level, low level oil in the reservoir fill up and activate closing function



Electrical and hydraulic schematic

