



2015
Electrically Controlled System
Installation Guide



Installation Guide

Step 1

Mount Valve Assembly with the valve down as shown using M8x1.25 hardware & 13mm tools. Valves should be mounted as close to the injection site as possible. A maximum of 48 inches is suggested for peak product performance. Do not install/mount ether systems directly on the engine, inside the operators cab, adjacent to, or near the exhaust manifold. The ether cylinder has a safety system that will vent the ether content when the pressure inside the cylinder reaches 360/460 PSI. Suitable mounting configurations include the engine firewall, vehicle frame and radiator frame. All valves should be mounted with no more than 20 degrees in vertical tilt in any axis.



Step 2

Drill a 5/8" hole in the desired switch location: Cab dash mount, control panel, etc. Install Push Button Switch using a 7/8" wrench on the panel nut.



Step 3

Connect the power source to one side of the Push-Button Switch using a 3/16" 18AWG ring terminal.

(Example power source: Starter Relay Fuse, or any power source 5A-10A recommended)



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Step 4



Install Thermostat switch in desired location. Surface mount with bolt to intake tube, or any bolt on the intake side of the engine. This will ensure that ether is not injected over 55°F.

Step 5



Connect one lead of the Thermostat to one side of the Switch. On the Switch side use a 3/16" 18AWG ring terminal.

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Step 6



Connect the other lead of the Thermostat to one of the ether valve's leads.

Step 7



Connect the remaining open lead from the valve to ground.

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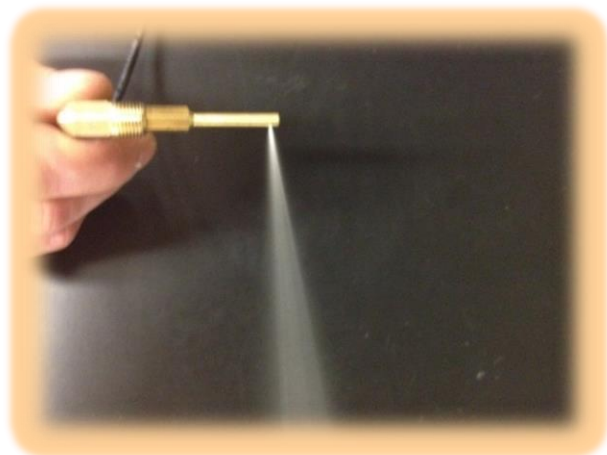
Step 8



Attach Tubing to the Control Fitting with the Compression Nut & Ferrule and a 3/8" wrench. Pull tubing to ensure the connection to the compression fitting is tight. Suggested torque spec: 25 In/Lbs.

Route tubing to the intake manifold where the atomizer port is located. Use the shortest route with the fewest bends in the tubing. Route the tubing away from sources of heat, excessive vibration and areas where physical environmental damage could occur. 48" maximum length is recommended.

Step 9

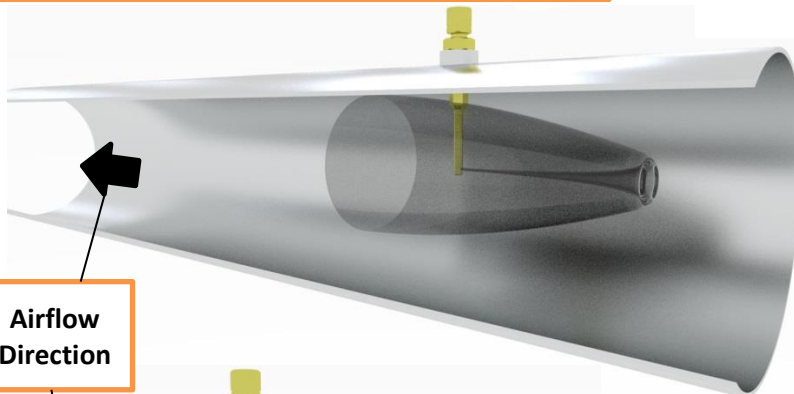
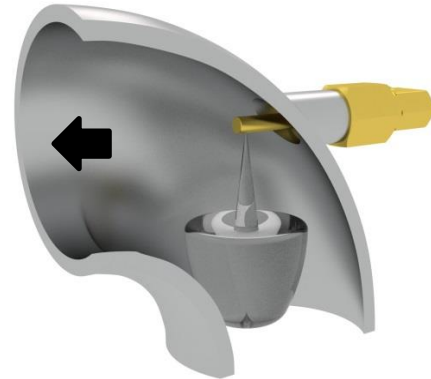


Perform Functional Spray Test by activating the system with the atomizer out of the port. Ensure you clear a space in front of where the ether is going to be atomized. Ensure atomization/vaporization. Spray should look like the picture.

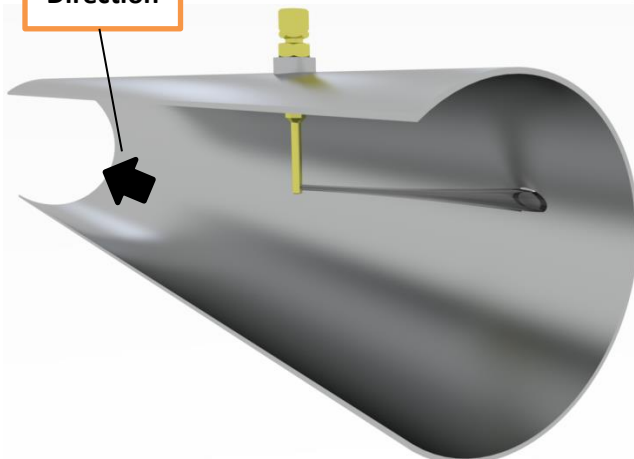
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Step 10

Install Atomizer into the manifold port using a 3/8" wrench. Torque to 25 In/Lbs Min. The atomizer orifice should be centrally located inside the manifold or intake tube. Direct the ether spray directly into the oncoming air stream. This will provide optimum atomization and ether coverage throughout the internal air intake system. Do not direct the ether spray onto internal walls and/or partitions inside the mounting location to avoid pooling of the ether. Attach Tubing to the Atomizer with the Compression Nut & Ferrule and a 3/8" wrench.



Airflow
Direction



Installation is now complete. Your Ether Injection System is ready for operation. Thank you for choosing Quick Start & we hope you enjoy years of reliable cold starting!

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Part Number Index

QSX-XCF	-----	Ether Valve
QSX-XTC	-----	Ether Valve
LP-5X5(-WG)	-----	Ether Cylinder
LP-1330	-----	Push-Button Switch
LP-1199	-----	Thermostat
LP-3239-X	-----	Nylon Ether Tubing
LP-430X	-----	Braided Steel Ether Tubing
LP-3490-X	-----	Elbow Control Fitting
LP-5161-X	-----	Straight Control Fitting
QAX-XTC	-----	Ether Atomizer
QAX-XVO	-----	Ether Atomizer
QAX-XCTU	-----	Ether Atomizer
LP-5146	-----	Compression Nut & Ferrule

**"X" denotes number, will change depending on application*

In the event of any questions or concerns, please contact us.

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