

HeX Sprayer System Installation Guide



Revisions

Revision	Date	Changes
V1 (Initial)	23/11/2020	Initial

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Package Contents

Sprayer Rail Only

1. Sprayer Rail

Sprayer Rail with Installation Kit

- 1. Sprayer Rail
- 2. Wiring Harness
- 3. Water Pump (with quick connect fitting)
- 4. 6mm OD PU Tube (Rail to Pump)

Sprayer Rail with Installation Kit + Tank

- 1. Sprayer Rail
- 2. Wiring Harness
- 3. Water Pump (with quick connect fitting)
- 4. 800ml Alloy Tank (with clamps)
- 5. 6mm OD PU Tube (Rail to Pump)
- 6. 3/8 Hose (Pump to Tank)

Installation

Sprayer Rail

The rail is designed to be operated at a pressure of between 80-150psi.

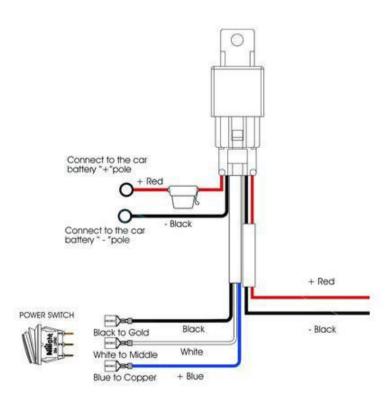
The rail has an effective spray angle of approximately 130°-140°. Use this information to calculate position of your sprayer, relative to your heat exchanger. Each application will yield different results, so it is recommended that the rail be installed in a temporary fashion, to determine the most efficient position.

The nozzles orifice is extremely small and as such, is sensitive to damage. The recommended orientation of the sprayer is firing perpendicularly to the heat exchanger. This will minimise the chance of stones and other road debris damaging the nozzle tip. The rail body is designed to be exposed to such elements.

The rail comes installed with a quick connect fitting. This push style fitting is designed to accept 6mm OD PU tubing.

Electrical Harness

The electrical harness should be connected as below, with the fused wires with ring terminals to the battery, power switch mounted in the cabin, and the red (+) and black (-) wires to the pump.



Water Tank

Using the supplied hardware, the water tank can be mounted anywhere in the vehicle, it is recommended that the tank is not mounted more than 2m lower than the pump to prevent air ingestion. **The O-ring on the cap must be removed prior to use, it is only required for transportation.**

Operation

Initial Run (Break in) Points

Clean the tank with water to remove any foreign debris/dust that may have remained after manufacturing.

Disconnect the Rail from the water pump. This is to reduce the chance of blockage of the nozzles from any missed foreign debris, and to also aid in bleeding the system.

When running the pump for the first time, it is a recommended that the water source be located above the tank, to allow the tank to run dry for as little time as possible. (30 max dry run at any time)

On first use, the system needs to be purged of any air. With the system in its installed state, follow the below instructions.

- 1. Remove tubing from the water rail inlet
- 2. Turn on the switch to activate the pump
- 3. Wait 5-15 seconds for water to begin pumping out of the outlet hose. If there is no water pumping, check the connections and or water level.
- 4. Run the pump for a further 10 seconds or until the water flows smoothly
- 5. The system is now purged

The system may require purging periodically. If the tank is run dry or left too low, air may be ingested, requiring a re-purge. For this reason, it is highly recommended that either the water rail or pump is installed in a location that will allow for easy disconnection of the pressurised side for purging.

It is strongly recommended that distilled water be used as a water source. Regular tap water can be used but may necessitate period cleaning of the nozzles as it contains minerals and other substances that can cause blockages.