

VACUUM PUMP OIL SEPARATOR + EXHAUST TANK INSTRUCTIONS STR.02.09.00AN

This new vacuum pump accessory is yet another example of Star Machines' continuing effort to offer only the finest vacuum components to the motorsports industry. Constructed of aluminum and CNC machined, the tank can be disassembled if necessary. The "tank within a tank" design incorporates two separate chambers. The inner oil separator chamber, containing a baffle and filter media, acts to reduce or eliminate oil reaching the vacuum pump. A secondary benefit of this section is its ability to trap debris resulting from engine failure before it can reach the vacuum pump and cause damage. The outer chamber serves as a free flowing exhaust vent for the pump and also contains filter media. Separate drain cocks located in the bottom plate will individually drain both chambers.

The top and bottom plates are sealed to the cylinders via o'rings. The bottom plate is fixed, the top plate is removable. To disassemble the tank remove the flat head screw from the top plate and pull the top plate from the cylinders. This will allow access to the filter media which can be removed for cleaning purposes. Both intake and exhaust filters are made from five, 1" thick "rings". They are easily removed with needle nose pliers. The inner baffle is threaded into the bottom plate and can be removed by using a $\frac{3}{4}$ " socket.

The tank can be adequately supported using the mounting bracket provided. When connected, the three hoses will serve as a vibration damper. Plumb the tank according to the diagram provided. ***It is best to have the tank exhaust fitting/line below the vacuum pump. If the exhaust tank fitting/line has to be mounted above the vacuum pump create a loop in this line that passes up and over the tank. This will prevent oil draining back into the vacuum pump.***

The tank will do an excellent job of separating a reasonable amount of oil. It is not a cure for excessive leakage that results in a large volume of oil.

When first using the tank monitor the amount of oil in the separator section by opening the drain after each run. This will give an indication of how often to drain the tank.

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