

Oil Pump Mounting & Return Hose Routing

Consider the following when deciding on the oil pump mounting location:

- It is best to locate the oil pump near the turbocharger (within 36" if possible)
- It is best to locate the oil pump at a position lower than the oil outlet of the turbocharger so that the oil can flow easily out of the turbo and down into the oil pump inlet.
- If the oil pump must be positioned above the turbocharger, the oil return from the turbo outlet must go vertical as soon as possible, run up a little higher than the oil pump and then slope down into the pump inlet if possible.
- If the oil must be drawn upward into the pump, the maximum I.D. of the hose should be 3/8".
- Mount the pump so that minimum noise/vibration is transmitted from the pump to the body.

After determining the turbo and oil pump locations, decide at which angles the oil hoses will come in and out of the oil pump and what brass fitting configuration will work best. When installing the brass fittings onto the oil pump, use the thread sealing tape provided on all threaded pieces. Take care not to let the tape extend over the threads and into the oil flow. **(Important: Use a wrench to keep the fittings in the oil pump from being over-tightened when installing the brass fittings or the pump may be damaged!).** Once you have decided on the mounting location of the oil pump and how the oil hoses will be routed in and out of the pump, install the appropriate fittings onto the oil pump as follows:

1. Install the T fitting onto the oil pump inlet.
2. Install the reducer bushing into the top of the T as shown then install the 3 psi pressure switch into the top of the T so that the terminal screws are easily accessible.
3. Install the necessary hose adapter fittings to configure the inlet and outlets to best fit this particular application.
4. Mount the pump using the self tapping screws provided. Be careful not to damage the rubber insulators by over-tightening the screws.
5. Route the oil return hose from the engine back to the oil pump outlet. Trim the hose to length and install the hose onto the fitting at the outlet.

The oil return to the motor can be plumbed into the motor in a few different places. The first and easiest is the oil fill cap. You can also drill and tap the valve cover or oil pan as well. **(Note: If returning straight into the valve cover or oil pan remove cover or pan before drilling and tapping to avoid getting any debris in the motor.)**