



Scarborough Fire Department Scarborough, Maine



Standard Operating Guidelines

Book:	Routine Operations
Chapter:	Apparatus Operations
Subject:	2135 – Plymovent Exhaust System
Revision Date:	06/06/2014
Approved by:	<i>B. Michael Thurlow</i>

PURPOSE

The department has purchased and installed a sophisticated vehicle exhaust extraction system in each of its stations to improve air quality and reduce the dangerous emissions from the apparatus that used to permeate the stations. The purpose of this policy is to outline the proper use of the Plymovent exhaust extraction system.

POLICY

The Plymovent vehicle exhaust extraction system shall be connected to all apparatus that have a Plymovent exhaust adapter installed when they are parked in any fire station in the Town of Scarborough.

PROCEDURE

- A. Only vehicles that have had their exhaust pipes modified with a Plymovent adapter shall be connected to the Plymovent system.
- B. Apparatus connected to the Plymovent system must be run for no more than 3 minutes at any time because the high heat output of modern diesel engines will damage the system after prolonged use.
- C. All apparatus with Plymovent adapters shall be hooked up to the system whenever they are parked in the station.
- D. When backing into the stations a spotter should always be used when available. The spotter should not attempt to hook the Plymovent system to the exhaust as the vehicle is backing into the station. Back the apparatus in to its parking spot and shut the engine down as soon as possible. Connect the Plymovent so it is ready to activate when the engine starts and the apparatus leaves the station.
- E. The Plymovent system automatically starts when the engine starts, and it will automatically disconnect from the exhaust pipe as the truck slowly rolls onto the ramp.

RESPONSIBILITIES

It is the responsibility of all Scarborough Fire Department personnel to adhere to this policy.

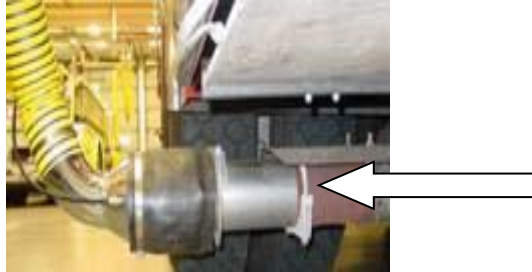
Plymovent System

The Plymovent system is designed to connect our fire department apparatus exhaust pipes and capture virtually 100% of the exhaust emissions. All fire department vehicles equipped with the proper adaptor parked inside of any station must have the Plymovent attached to the exhaust. Maximum run time for vehicles attached to the system is 3 minutes. When exiting the station it is important to travel slowly to avoid damage to the Plymovent system.

System Operation

When returning to the station, back the vehicle into the bay (normal parking position) with the help of a spotter. Shut the apparatus down as soon as possible.

Perform the two step installation of the Plymovent system shown below:



Place the “Grabber” boot over the vehicle exhaust adaptor up to the stop disk



Activate the “Black” button on the system valve to pressurize the “Grabber” boot which works like a mechanical seal for the system.

Proper operation of the Plymovent system is important to firefighter’s health. When installed correctly the system will remove noxious and dangerous fumes emitted from the vehicles’ exhaust.

Please note a newer type magnetic connection to the exhaust pipe that eliminates the pneumatic boot is being installed on certain apparatus. Simply connect the hose and the magnet holds the hose to the pipe without the need for a boot or air. The magnet will release automatically as in the older type system.