

Vehicle Exhaust Extraction System (Plymovent)

Effective: 10-24-19

PURPOSE

Department stations are equipped with a vehicle exhaust extraction system in order to minimize harmful gasoline or diesel fumes from entering the garage. The department currently uses a Plymovent system. The system attaches to the vehicle exhaust pipe and removes exhaust to the exterior of the station via a fan system.

POLICY

All vehicles, where so equipped, are to be connected to the station exhaust system whenever parked at a department station.

SCOPE

Applies to *all* department vehicles equipped with a vehicle exhaust modification to accept the system.

PROCEDURE

1. When parking an EMS vehicle inside an EMS facility equipped with the Plymovent system, personnel are to attach the bellow at the end of the hose to the end of the vehicle exhaust pipe. The hose runs along a track on the ceiling of the stations that allows movement regardless of the vehicle size. A small control box on the side of the hose has a push/pull switch that allows the air inflated bellow, powered by a small compressor, to grasp the tailpipe onto the hose, creating a seal.
2. The system is designed to automatically disengage when the vehicle is driven out of the station at low speed. A trigger is built into the ceiling rail to deflate the bellow and release it from the tailpipe. The hose will automatically retract towards the rear and away from the vehicle.
3. Some facilities, such as Fleet Services, may have a manual grip system. These hoses have a lever which can be manually used to create the seal to the tailpipe. This system must be manually disengaged before moving the vehicle.
4. Any malfunction or damage to the bellows, hose, compressor, or other components shall be reported immediately to Facilities Management for repair or replacement and, if damaged, an incident report completed, and a supervisor notified.
5. Hoses should not be used as “rope” or for any other unintended purpose or tied up out of the way to prevent use of the system.

TROUBLESHOOTING

1. If the bellow does not inflate when the switch is engaged, check to see that the small compressor is plugged into a working electrical plug. If the bellow does not deflate

automatically when exiting the garage or does not inflate when plugged into a working outlet, notify Facilities Management. Members should not attempt to repair any component. If the fan does not engage when the vehicle is started, notify Facilities Management immediately.

Demonstration video is available at <https://www.youtube.com/watch?v=axNQW8dw4LA>