

**Safety Defect and Noncompliance Report Guide for Vehicles**  
**PART 573 Defect and Noncompliance Report**

**On August , 2011, Vactor Manufacturing Company decided that a defect which relates to motor vehicles exists in the motor vehicles listed below, and is furnishing notification to the National Highway Traffic Safety Administration in accordance with 49 CFR Part 573 Defect and Noncompliance Reports.**

**Date this report was prepared:** September 13th, 2011

**Furnish the manufacturer's Identification code for this recall (if applicable):** \_\_\_\_\_

**1. Identify the full corporate name of the fabricating manufacturer of the vehicle being recalled. If the recalled vehicle is imported, provide the name and mailing address of the designated agent as prescribed by 49 U.S.C. §30164.**

Vactor Manufacturing Company  
1621 South Illinois Street  
Streator IL, 61364

**Identify the corporate official, by name and title, whom the agency should contact with respect to this recall.**

William Byrnes  
Vice President, Service and Parts Operations

**Telephone Number:** 847-468-2351 **Fax No.:** 847-622-7077

**Name and Title of Person who prepared this report:**

William Byrnes  
Vice President, Service and Parts Operations  
Federal Signal, Environmental Solutions Group



**Signed:** \_\_\_\_\_

**I. Identify the Vehicle Models Involved in the Recall**

**2. Identify the Vehicles Involved in the Recall, for each make and model or applicable vehicle line (provide illustrations or photographs as necessary to describe the vehicle), provide:**

**Make(s):** Vactor **Model Years Involved:** 2010 to 2011 **Model(s):** Jetter-F and Jetter-V

**Production Dates: Beginning:** February, 2010 **Ending:** April, 2011

**VIN Range: Beginning:** 10-12T-1674, 11-01T-1676, 11-01T-1678, 11-01T-1681, 11-02T-1683, 11-02T-1684, 11-02T-1685, and 11-03T-1688

**Ending:** 11-03T-1688

**Vehicle Type:** Sewer Cleaner **Bodystyle:** N/A

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:**

Vactor Jetters subject to recall have a front rotating hose reel, a Cummins engine, Vansco electronic throttle control unit, and are wired according to schematics 1000307N and 84345B. Schematics are attached for reference.

**Make(s):** \_\_\_\_\_ **Model Years Involved:** \_\_\_\_\_ **Model(s):** \_\_\_\_\_

**Production Dates: Beginning:** \_\_\_\_\_ **Ending:** \_\_\_\_\_

**VIN Range: Beginning:** \_\_\_\_\_ **Ending:** \_\_\_\_\_

**Vehicle Type:** \_\_\_\_\_ **Bodystyle:** \_\_\_\_\_

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:**

\_\_\_\_\_  
\_\_\_\_\_

**Make(s):** \_\_\_\_\_ **Model Years Involved:** \_\_\_\_\_ **Model(s):** \_\_\_\_\_

**Production Dates: Beginning:** \_\_\_\_\_ **Ending:** \_\_\_\_\_

**VIN Range: Beginning:** \_\_\_\_\_ **Ending:** \_\_\_\_\_

**Vehicle Type:** \_\_\_\_\_ **Bodystyle:** \_\_\_\_\_

**Descriptive information which characterizes/distinguishes the recalled vehicles from those model vehicles not included in the recall:**

\_\_\_\_\_  
\_\_\_\_\_

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusive dates of manufacture provided above, that the recalled model population represents. For example, if the recall involved Widgets equipped with certain items for equipment from January 1, 1996 through April 1, 1997, then what was the percentage of the recalled Widgets of all Widgets manufactured during that time period. 100%

## II. Identify the Recall Population

3. Furnish the total number of vehicles recalled potentially containing the defect or noncompliance.

<u>Model</u>	<u>Year</u>	<u>Number of Vehicles Potentially Involved</u>
Vactor Jetter Sewer Cleaner	2010	1
Vactor Jetter Sewer Cleaner	2011	7

Total Number Potentially Affected by the Recall:           8

4. Furnish the approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance:           100%

Identify and describe how the recall population was determined—in particular how the recalled models were selected and the basis for the beginning and final dates of manufacture of the recalled vehicles:

Vactor Manufacturing Company began production of the Jetter sewer cleaner with a front mounted rotating reel, utilizing a Cummins engine, Vansco electronic throttle control unit and wiring schematics 1000307N and 84345B in July of 2010 starting with unit serial number 10-12T-1674. Only Jetter sewer cleaners built with this specific configuration and wiring schematics are affected.

## III. Describe the Defect or Noncompliance

5. Describe the defect or noncompliance. The description should address the nature and physical location of the defect or noncompliance. Illustrations should be provided as appropriate.

Sewer cleaning operations require the operator to remotely activate the engine throttle outside of the cab. The sewer cleaning equipment operating controls are located outside of the cab at the front of the vehicle. Safety interlocks are built into the units to protect the operators and assure no vehicle movement can happen during sewer cleaning operations. The safety interlocks are signals from the parking brake and transmission to the electronic control system. Work mode is the condition where the sewer cleaning equipment operating controls, including remote throttle control, are enabled. The defective condition is that work mode can be enabled with the transmission in gear and the parking brake applied.

**Describe the cause(s) of the defect or noncompliance condition.**

The cause of the defect is that the safety interlocks were incorrectly wired in the electrical system.

**Describe the consequence(s) of the defect or noncompliance condition.**

In the defective condition, work mode can be enabled with the parking brake on and the transmission in gear. As a result, an increase in engine speed can overpower the parking brake causing vehicle movement with the operator outside of the cab.

**Identify any warning which can (a) precede or (b) occur.**

The warning of the defective condition is a sequence of events and indicator lights. The defective condition can occur if the vehicle park brake is applied, the transmission is in gear, and work mode is turned on. In this situation the vehicle dash board transmission indicator will show the transmission to be in gear, the parking brake light indicator will be on and the work mode light will be on.

**If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address.**

N/A

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**Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:**

N/A

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#### **IV. Provide the Chronology in Determining the Defect/Noncompliance**

*If the recall is for a defect, complete item 6, otherwise item 7.*

**6. With respect to a defect, furnish a chronological summary (including dates) of all the principle events that were the basis for the determination of the defect. The summary should include, but not be limited to, the number of reports, accidents, injuries, fatalities, and warranty claims.**

Friday, July 29, 2011

Vactor dealer Haaker Equipment reported a customer request to disable work mode button if the transmission is in gear. The unit serial number the customer owns is 10-12T-1674. No accidents or injuries were reported. Vactor technical service and engineering started an investigation into the request.

Tuesday, August 2, 2011

A wiring configuration solution was determined for unit 10-12T-1674. The solution was implemented by the Vactor dealer, Haaker Equipment.

Wednesday, August 3, 2011

A corrective action request was submitted from technical service to engineering. Vactor engineering began an investigation into the possibility of other Jetter models having the same wiring configuration that causes the defect.

August 17, 2011

Vactor engineering released their findings on units affected and the solution.

A Vactor electrical engineer was dispatched to Vactor dealer Haaker Equipment to repair units 11-01T-1676, 11-01T-1678, 11-01T-1681, 11-02T-1683, and 11-02T-1684. Vactor dealer Boyle Equipment repaired units 11-02T-1685 and 11-03T-1688. These repairs completed remaining units affected. Verbal notices were given to customers to not operate the unit until the Vactor repair technician or dealer technician could repair the units.

Warranty claim filed for unit 10-12T-1674.

August 18, 2011

Warranty claim accepted and credited for unit 10-12T-1674.

**7. With respect to a noncompliance, identify and provide the test results or other data (in chronological order and including dates) on which the noncompliance was determined.**

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### **V. Identify the Remedy**

**8. Furnish a description of the manufacturer's remedy for the defect or noncompliance. Clearly describe the differences between the recall condition and the remedy.**

The park brake and transmission gear safety interlocks are operational in the remedy. The safety interlocks insure that the chassis park brake is on and the chassis transmission is in neutral before the operator can activate work mode. The remedy is a wiring change that is documented in schematics 1000307NF and 84345BD, documents are attached for reference.

The condition requiring a recall does not insure the chassis park brake is on and the chassis transmission is in neutral before allowing work mode to be enabled providing remote throttle function. Wiring schematics 1000307N and 84345B, documents attached, show the wiring that allows for the recall condition.

**Clearly describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.**

The remedy wiring schematics 1000307NF and 84345BD have park brake pin 17, on the electronic throttle controller harness, connected to the safety interlock relay circuit. Additionally, the remedy wiring schematic 1000307NF has range indicator (transmission neutral) pin 45, on the transmission control unit, connected to the safety interlock relay circuit.

The recalled wiring schematic 84345B has park brake C4-D, on the chassis harness, connected to the safety interlock relay circuit. The recalled wiring schematic 1000307NG has range indicator (transmission neutral) pin 45, on the transmission control unit, connected to park brake AL pin 17 on the electronic throttle controller.

**Identify and describe how and when the recall condition was corrected in production. If the production remedy was identical to the recall remedy in the field, so state. If the product was discontinued, so state.**

The condition requiring a recall was corrected with wiring schematic 1000307NF and 84345BD, which were implemented in production on 8/12/2011. The production remedy is the exact same remedy used in the recall.

#### **VI. Identify the Recall Schedule**

**Furnish a schedule or agenda (with specific dates) for notification to other manufacturers, dealers/retailers, and purchasers. Please, identify any foreseeable problems with implementing the recall.**

**Initial notification to Vactor Manufacturing Dealers:** August 17th, 2011

**Notification to customers:** August 17th, 2011

#### **VII. Furnish Recall Communications**

**9. Furnish a final copy of all notices, bulletins, and other communications that relate directly to the defect or noncompliance and which are sent to more than one manufacturer, distributor, or purchaser. This includes all communications (including both original and follow-up) concerning this recall from the time your company determines the defect or noncompliance condition on, not just the initial notification. *A DRAFT copy of the notification documents should be submitted to this office by Fax (202-366-7882) for review prior to mailing.***

**Note that these documents are to be submitted separately from those provided in accordance with Part 573.8 requirements.**