

Safety Defect and Noncompliance Report Guide for Vehicles
PART 573 Defect and Noncompliance Report¹

On 11-28-2011, E-One Incorporated [MFR] decided that a noncompliance which relates to motor vehicle safety 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: 11-29-2011

Furnish the manufacturer's identification code for this recall (if applicable): 4EN

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.

E-One Incorporated.

1701 SW. 37th Ave. Post Office Box 2710

Ocala, Florida 34478-2710

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

Billy Miles Director of Operations

1601 SW. 37th Ave. Ocala, Florida. 34474

Telephone Number: 352-861-3223 Fax No.: 352-237-2999

Name and Title of Person who prepared this report.

William F. McCombs , Principle Engineer

Signed:



¹Each manufacturer must furnish a report, to the Associate Administrator for Safety Assurance, for each defect or noncompliance condition which relates to motor vehicle safety.

This guide was developed from 49 CFR Part 573, "Defect and Noncompliance Reports" and also outlines information currently requested. Any questions please consult the complete Part 573 or contact Mr. Jon White at (202) 366-5227 or by FAX at (202) 366-7882.

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): Emergency One Fire Fighting Chassis Model Years Involved: 2008 through 2011

Model(s): Chassis Models Quest, Typhoon, and Cyclone II,

Production Dates: Beginning: May-1-2008 Ending: 11-28-2011

VIN Range: Beginning: 4EN3AAA8881003612 Ending: 4EN3AAA85B1006913

Vehicle Type: Fire Fighting Vehicle Body Style: Fire Truck, Pumper, Tanker, Aerial, and Rescue

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

The notification involves the above listed chassis models that have a Meritor Wabco Electronic Stability Control System (ESC) installed. Meritor Wabco is recalling (Recall #11E039000) the Electronic Stability Control Modules that are part of the system.

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 of 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% of all ESC equipped units

II. Identify the Recall Population

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

Number of Vehicles: (220) Two Hundred and Twenty vehicles.

Models: Chassis Models Quest (24)units

Typhoon (82) units

Cyclone II (114) Units

Total Number Potentially Affected by the Recall: (220) Units

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

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:

Meritor Wabco notified E-One that they were recalling all Electronic Stability Control (ESC) Modules (Recall #11E039000) supplied to E-One since the first modules were shipped to E-One in early 2008.

E-One is recalling all vehicles equipped with ESC Modules that have been manufactured by E-One.

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.

Under certain unique road and driving conditions involving tight, successive, highly banked curves in opposite directions, vehicle body roll and road inclination characteristics may adversely affect the slip angle calculation by the ESC Module. This might cause the ESC to perceive an oversteering situation and therefore apply the front axle outer wheel service brake until the vehicle is perceived to be stable by the ESC. This unnecessary brake intervention may pull the vehicle out of the curve, requiring the driver to counter steer to keep the vehicle on its intended path. If the driver is slow to react during this described unnecessary ESC intervention, the vehicle may deviate from its intended path. According to Meritor Wabco, all known occurrences of this described condition have occurred on tight, S-type curves that are highly banked above 6 degrees. The faster the vehicle is driven on this unique road condition, the tighter the curves and the higher the bank, the more likely the occurrence of unnecessary over steer brake activation by the ESC.

The ESC Module is mounted under the back of the chassis cab.

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

The software algorithm in the ESC Module that calculates the vehicles slip angle.

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

This might cause the ESC to perceive an over steering situation and therefore apply the front axle outer wheel service brake until the vehicle is perceived to be stable by the ESC. If the driver is slow to react to this ESC intervention, the vehicle may deviate from the intended line of travel, increasing the risk of a crash.

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

The vehicle pulls to the outside of the curve during maneuvers on a very tight high banked switch back turns.

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

Meritor Wabco, 2135 West Maple Road, Troy, Michigan 48084

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

Patrick Kealy Sr. Manager – Quality Systems 248-655-2050

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.

On October 6th E-One received a letter from Meritor Wabco Sr-Manager – Quality Systems explaining that Meritor Wabco was recalling their Electronic Stability Control System Electronic Control Module. At that time E-One started a search of our data base to determine A) which vehicles had the ESC Electronic Control Module installed and B) if E-One had received any reports of malfunctioning Stability Control. On October 13th a conference call with Meritor Wabco E-One Customer Manager was held to further access the situation. An additional meeting was held with the representatives of Meritor Wabco on November 3rd. A conference call with Wabco representatives was held on November 18th. Although E-One can find no evidence of customer complaints or reports of accidents, injuries, fatalities or warranty claims we determined to proceed with a recall on 11-28-2011.

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.

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.

E-One is working with Meritor Wabco and will replace the Electronic Control Module free of charge to the owner. E-One will notify the owner and provide the quarterly reporting to

NHTSA. The replacement of the Control Module will be done by Meritor Wabco On Trac Service Centers.

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

The current Generation 3 Electronic Control Box will be replaced with a Generation 5 Electronic Control Box that contains revised software algorithms.

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.

All inventory is being replaced with new components for installation on upcoming production trucks. All existing orders for the previous components have been canceled and Wabco is shipping only the new 5th Generation of Electronic Control Box.

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.

E-One expects to notify customers on or by December 18th and Wabco is to make new Electronic Control Boxes available around Nov. 30th, 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.*

E-One is to notify the owners of the vehicles. See attached Draft Notification letter.