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13V-208
(7 pages)

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

On May 15, 2013, Brammo, Inc. decided that a defect which relates to motor vehicle safety (a noncompliance with Federal Motor Vehicle Safety Standard No. _____) 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: May 15, 2013

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.

Brammo, Inc.; 550 Clover Ln.; Ashland, OR. 97520

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

Charles Lee, Certification and Compliance Manager

Telephone Number: 541-482-9555 x332 Fax No.: 541-552-0414

Name and Title of Person who prepared this report.

Charles Lee, Certification and Compliance Manager

Signed: Charles Lee

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): Brammo **Model Years Involved:** 2013 **Model(s):** Empulse

Production Dates Beginning: 2/22/2013 **Ending:** 3/29/2013

VIN Range: Beginning: 51RUB5563DA000013 **Ending:** 51RUB5568DA000024

Vehicle Type: Motorcycle **Bodystyle:** R

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

Manufacturing build records only – no external characteristics visible.

(See Section II.3 for specific VINs affected)

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 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.

II. Identify the Recall Population

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

Model	Year	Number of Vehicles Potentially Involved
Empulse R	2013	5

VINs of affected units:

51RUB5563DA	██████████
51RUB5560DA	██████████
51RUB5562DA	██████████
51RUB5566DA	██████████
51RUB5568DA	██████████

Total Number Potentially Affected by the Recall: 5

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:

Serviceing of a test vehicle showed the initial problem. Five (5) additional bikes were processed in a similar manner. No other motorcycles were produced or serviced in a manner that would re-produce the noted issue.

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.

Electrical shorting can occur near motor controller due to a single, high current cable being attached to motor controller incorrectly (see photos on following page).

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

Incorrect installation of a single, large gauge cable.

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

Shorting of a high current cable may result in the complete loss of electrical power and could potentially result in short duration, localized burn event.

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

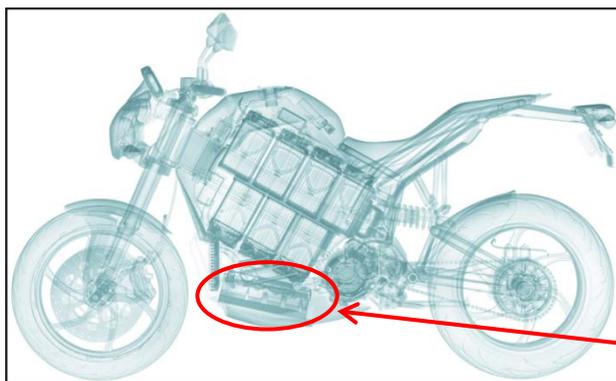
No warning precedes condition; possible indication of a system error code displayed on dash assembly, momentarily.

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

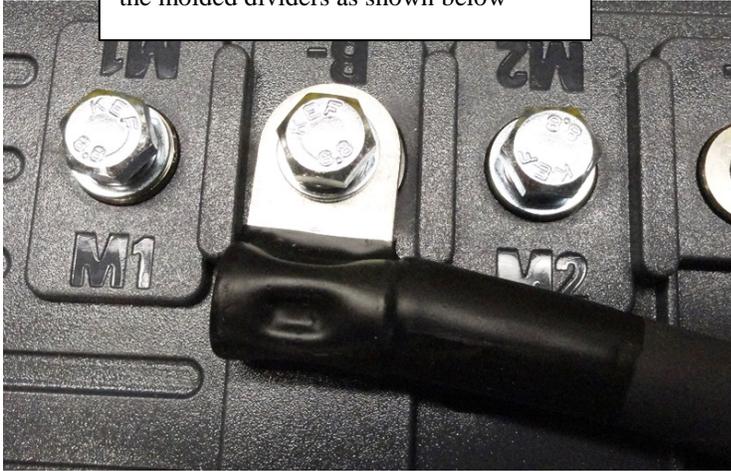
Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:

N/A

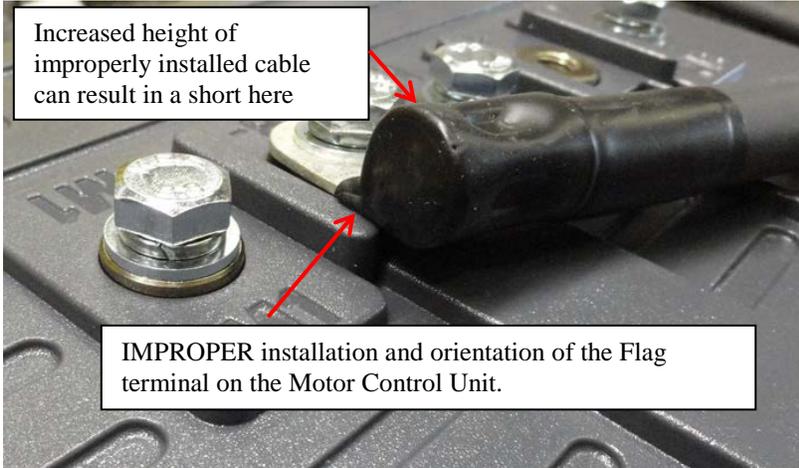


Motor Controller location on Empulse

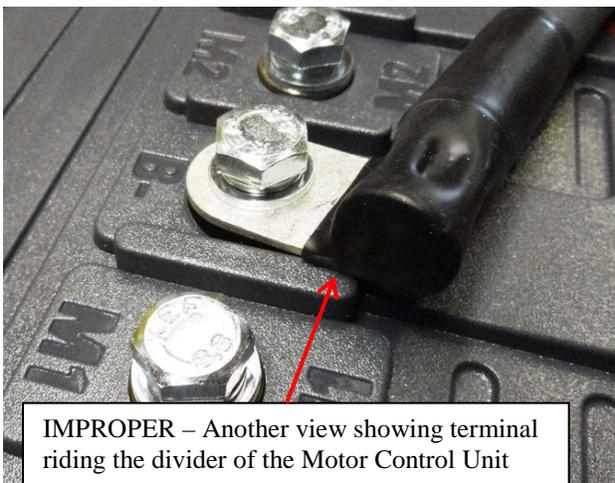
GOOD-Proper installation and orientation of the Flag Terminal is resting between the molded dividers as shown below



Increased height of improperly installed cable can result in a short here



IMPROPER installation and orientation of the Flag terminal on the Motor Control Unit.



IMPROPER – Another view showing terminal riding the divider of the Motor Control Unit

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.

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.

05/09/13 – Problem first noticed when servicing Empulse test bike #002. Test rider assigned to bike had not noticed any issues with bike, and it continued to perform in a normal manner.

05/10/13 – Brammo team assembled to research problem and cause. Tests are conducted over next few days, and manufacturing records are researched for which units may be affected. Team confirms possible safety concerns of issue detected.

05/15/13 – Brammo team reaches conclusion and establishes Root Cause of problem and number of motorcycles affected. At this time there have been no reports from any customers who have the affected motorcycles regarding this issue.

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 names and addresses of owners of the affected bikes are known and they will be notified. Affected bikes will be serviced by trained technicians to inspect the placement of the referenced cable. If the cable is incorrectly installed and no shorting has taken place, the cable will be correctly re-installed. If any shorting has occurred (marks on the cable would indicate shorting), then the cable will be replaced along with the motor controller and cover assembly where they are attached to.

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

The recalled assembly would have been subject to shorting, and would show deterioration of the battery cable along with possible contact marks on top of nearby components (mainly the motor controller and referenced cable. The replacement (remedy) components will be new, correctly installed, and have no such markings.

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.

Service Technician was notified of improper installation condition and has been provided documented instructions to clarify the installation of the referenced cable.

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.

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.