

**PART 573 Defect and Noncompliance Report**

Date: **October 15, 2013.**

This report serves as ILJIN Global Co., Ltd.'s notification to the U.S. Department of Transportation, National Highway Traffic Safety Administration that a "defect related to motor vehicle safety" exists in certain front wheel bearings.

ILJIN Global Co., Ltd., decided that this defect existed in these items of motor vehicle equipment on or about October 7, 2013.

**I. Manufacturer, Designated Agent, and Other Chain of Distribution Information**

Manufacturer's corporate name: ILJIN Global Co., Ltd.

Equipment's brand or trademark name owner(s) (where applicable): SKF, MOOG, ILJIN

Designated Agent (imported equipment):

If this notification concerns equipment that was installed in new motor vehicles or new items of motor vehicle equipment, identify by name, address, and telephone number each vehicle manufacturer and equipment manufacturer who purchased that equipment:

Not applicable

If this notification concerns a defective or noncompliant component that the above identified manufacturer did not manufacture, identify that component and provide the name, address, and phone number of the manufacturer of the component (if this manufacturer is unknown, provide this information as to the supplier of the component):

Not applicable

Name, address, email, and phone and fax numbers for the person(s) to whom inquiries about this report should be directed:

Kelly T. Grubaugh  
 Director - Engineering & Quality Assurance  
 ILJIN USA Corporation  
 28055 Haggerty Road  
 Novi, MI 48377  
 248-848-1021 Office  
 734-693-4546 Mobile  
 Email: kelly.t.grubaugh@iljin.com

Manufacturer's assigned campaign number (where applicable):

**II. Identification of the Recall Population and Its Size**

Complete the tables below for each item of equipment subject to this notification. Additional tables may be necessary where there are more than three items subject to a notification.

Type of equipment: Front Wheel Bearing	
Part/Model number: BR930695(SKf P/No.), 515081(Federal Mogul P/No.), IJ223089(IJ P/No.)	
Size and function (where applicable): L : 203mm/ W: 203mm/ H: 133.8mm. Provides for low friction rotation of the wheel and is configured to be driven by engine torque through a drive shaft.	
Inclusive dates of manufacture (month and year): July, August, September of 2013 (Start production : 2013.Jun. 26)	
Other information necessary to describe this equipment: Front Wheel Bearing has wheel speed sensor integrated.	
Total number of these items of equipment:	
	IJ223089/ BR930695 / 515081
SKF USA	11,468
Federal Mogul	0

Type of equipment: Front Wheel Bearing							
Part/Model number: BR930658(SKF P/No.), 515082(Federal Mogul P/No.), IJ223090(IJ P/No.)							
Size and function (where applicable): (L : 203mm/ W: 203mm/ H: 129.3mm) Provides for low friction rotation of the wheel and is configured to be driven by engine torque through a drive shaft.							
Inclusive dates of manufacture (month and year): July, August of 2013 (Start production : 2013.Jun. 26)							
Other information necessary to describe this equipment: Front Wheel Bearing has wheel speed sensor integrated.							
Total number of these items of equipment:	<table border="1"> <tr> <td></td> <td>IJ223090 / BR930658 / 515082</td> </tr> <tr> <td>SKF USA</td> <td>1,512</td> </tr> <tr> <td>Federal Mogul</td> <td>200</td> </tr> </table>		IJ223090 / BR930658 / 515082	SKF USA	1,512	Federal Mogul	200
	IJ223090 / BR930658 / 515082						
SKF USA	1,512						
Federal Mogul	200						

Type of equipment: Front Wheel Bearing							
Part/Model number: BR930639(SKF P/No.), 515083(Federal Mogul P/No.), IJ223091(IJ P/No.)							
Size and function (where applicable): (L : 203mm/ W: 203mm/ H: 129.3mm) Provides for low friction rotation of the wheel and is configured to be driven by engine torque through a drive shaft.							
Inclusive dates of manufacture (month and year): July, August of 2013 (Start production : 2013.Jun. 26)							
Other information necessary to describe this equipment: Front Wheel Bearing has wheel speed sensor integrated.							
Total number of these items of equipment:	<table border="1"> <tr> <td></td> <td>IJ223090 / BR930658 / 515082</td> </tr> <tr> <td>SKF USA</td> <td>792</td> </tr> <tr> <td>Federal Mogul</td> <td>420</td> </tr> </table>		IJ223090 / BR930658 / 515082	SKF USA	792	Federal Mogul	420
	IJ223090 / BR930658 / 515082						
SKF USA	792						
Federal Mogul	420						

Provide the following information as to all the items of equipment (“the recall population”) identified above:

Grand total number of items of equipment in the recall population:  
SKF : 3,773pcs / Federal Mogul : 620 (to be verified)

The percentage of the recall population you estimate actually contain the defect:

100% of SKF items; undetermined as to Federal Mogul part numbers

Identify and describe how the recall population was determined (e.g., on what basis the recalled models were selected and how the inclusive dates of manufacture were determined):

The recall population was determined by the record of sales to SKF by Iljin, with the assumption that all units sold in July and August of 2013, with the start of production on 2013.Jun. 26, will be subject to recall. The same approach will be used for sales to Federal Mogul.

Describe how the recall population is different from any similar items of equipment not subject to this notification:

N/A

### **III. Description of the Defect or Noncompliance and Chronology of Events**

Describe the defect or noncompliance, including a summary and detailed description of the nature and physical location (if appropriate) of the defect or noncompliance. Graphic aids should be provided where necessary.

The wheel speed sensors of the wheel bearings were produced with the signal and VCC wires reversed. For this reason, the wheel speed sensor does not provide proper output when installed on vehicles. These sensors with reversed wires have been assembled on wheel bearing from the beginning of production.

Section	Detail
<p data-bbox="231 465 311 495">Drawing</p>	<div data-bbox="375 398 766 560"> </div> <div data-bbox="805 398 1252 521" style="border: 1px solid black; padding: 5px;"> <p><b>Correct Pin Arrangement</b></p> <ul style="list-style-type: none"> <li>- SIGNAL(BLACK) : Left side</li> <li>- VCC(BROWN) : Right side</li> </ul> </div>
<p data-bbox="247 757 311 817">ILJIN Sensor</p>	<div data-bbox="406 616 470 929"> </div> <div data-bbox="566 660 1029 728" style="border: 1px solid black; padding: 5px; color: red;"> <p>- SIGNAL(BLACK) : Right side - VCC(BROWN) : Left side</p> </div> <div data-bbox="558 779 1292 918" style="border: 1px solid black; padding: 5px;"> <p>The wheel speed sensors were produced with the signal and VCC wires reversed. For this reason, the wheel speed sensor does not provide proper output when installed on vehicles.</p> </div>

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

The wheel speed sensors on the wheel bearings were produced with reversed wires.

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

The sensor does not provide proper output when the bearing is installed on vehicles.

Identify any warning(s) that may precede the defect or noncompliance condition.

*For defects*, provide a dated, chronological summary of all the principle events that were the basis for the determination that the defect is related to motor vehicle safety, including a summary of all warranty claims, field or service reports, and other information such as numbers of crashes, injuries and fatalities.

*For noncompliances*, identify the test results and other information considered in determining the existence of the noncompliance, and provide the date of each test and observation indicative of that noncompliance.

Not applicable

#### **IV. The Remedy Program and Its Schedule**

Describe the program for remedying the defect or noncompliance, including the plan for reimbursing those owners and purchasers who may have incurred costs to remedy the defect or noncompliance before receiving the manufacturer's notification concerning that defect or noncompliance. Also include, where applicable, details with dates concerning any production remedy that was conducted or will be conducted.

This information will be supplied as it becomes available.

Provide the estimated date(s) on which owner and purchaser notifications will be issued and the estimated date(s) for completion of those notifications.

This information will be supplied as it becomes available.

Provide the estimated date(s) on which dealer and distributor notifications will be issued and the estimated date(s) for completion of those notifications.

This information will be supplied as it becomes available.

Describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.

This information will be supplied as it becomes available.

**\*\*\*\*\* IMPORTANT REMINDERS \*\*\*\*\***

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A DRAFT version of the letter that the manufacturer intends to mail to owners and purchasers notifying them of the defect and/or noncompliance must be submitted to NHTSA at least five Federal Government business days before those letters are issued. In addition, it is recommended that the draft version of the letter that the manufacturer intends to send to its dealers and distributors concerning the defect and/or noncompliance also be submitted for review. For prompt receipt and review, drafts may be submitted to the attention of the Recall Management Division (NVS-215) via facsimile on (202) 366-7882, or email to RMD.ODI@dot.gov.

A representative 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, dealer, or purchaser, must be submitted to NHTSA no later than five days after they are initially sent. This requirement applies both to the final version of the notification letter that is sent to owners and purchasers, as well as the final version that is sent to dealers and distributors. It also includes any follow-up notifications issued concerning a recall. The representative copies of the letters sent to owners and purchasers, and dealers and distributors, must be submitted via certified mail. It is strongly recommended, however, that additional representative copies be submitted via facsimile on (202) 366-7882, or email to RMD.ODI@dot.gov, so that the submission can be more promptly reviewed. All submissions should be conspicuously labeled with the appropriate NHTSA-assigned recall number.