



RYKER YAW Rate - SAS Sensor Faults - 137209

Summary:

YAW rate sensor faults might be triggered due to loose front suspension components.

Type:

General

TST Detail:

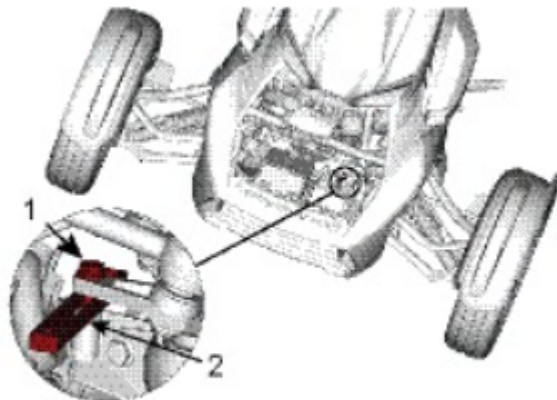
Problem:

A high number of Rykers with stability related fault codes have been reported. These 3 faults (C0063 and/or C0052 and *C006C) can be triggered if front suspension as excessive play or SAS zeroes setting not learned properly from the production line.

Solution:

Code set at PDI or low miles;

- Simply lock the steering system on the LH pitman arm and do a SAS reset with BUDS2. Use Alignment screw (P/N 529 036 490)



1. Alignment screw
2. Steering column spacer

Code set with higher mileage;

- If the unit has some miles and these codes (C0063 and/or C0052 and *C006C) are triggered, the first thing to have a look is the Monitoring ID. The ID18 is a very good indicator that there is an excessive play of the front steering components. Simply click on the fault and then environmental data.

Active/Occurred Possible

Fault Codes

Module	State	Code	Description	Detailed Description
VCM	Occurred	C0063		

More Details...

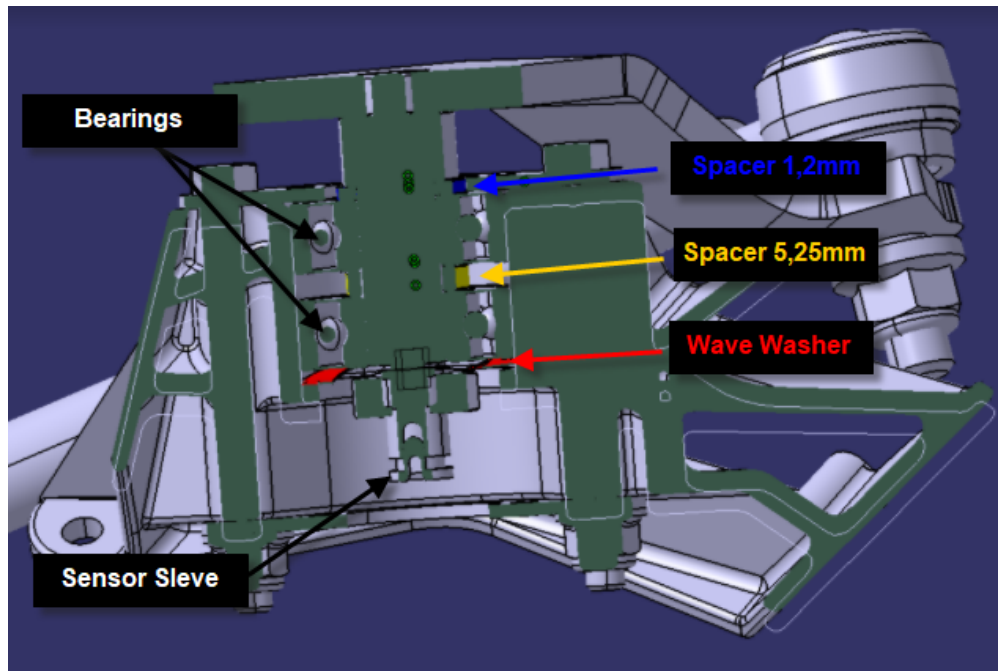
Environmental Data Possible Causes Service Actions DFC

Parameter Name	Value	Unit
Engine Running Time	2335	MIN
Failure Counter 1	8	
Failure Counter 2	0	
Monitoring ID	18	
Odometer	1909	km
System Status 1		

- If monitoring ID18 is there, replace the following;

Order kit P/N 219800513

- Kit Parts List:
 - 1x 219800512 - Spacer 5.25mm
 - 1x 219800511 - Spacer 1.2mm
 - 2x 709402450 - Bearing
 - 1x 219800510 - Wave washer
 - 1x 709401526 - Sensor Sleeve
 - 1x 487802246 - Generic Sheet

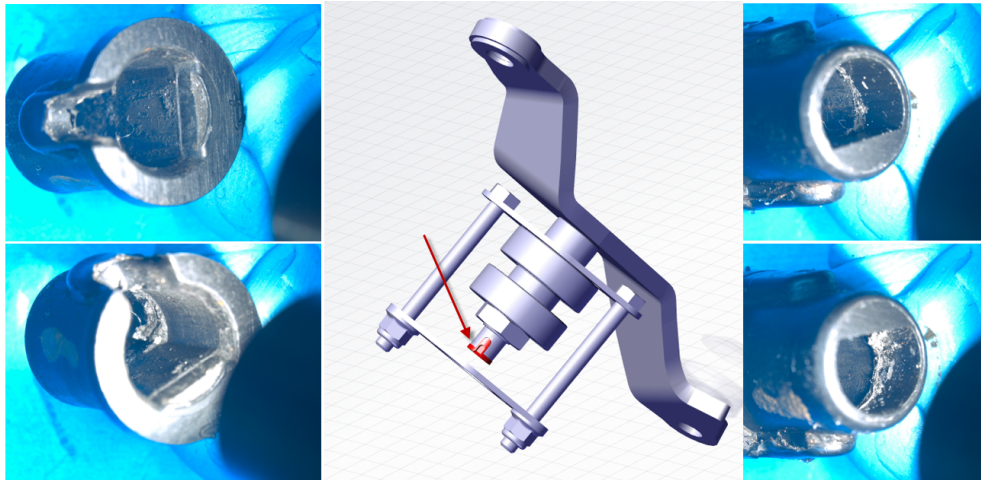


- Once parts replaced, lock the steering system on the LH pitman arm and do a SAS reset with BUDS2. Use Alignment screw (P/N 529 036 490)

Inspection Procedure:

SAS Bushing;

- A good sign that the steering components are too loose is that the SAS plastic bushing will be worn out by the excess of axial movements. The bushing is a tight fit on the SAS shaft. It needs to be replaced if you can easily remove it with your fingers. Here are some examples;



- Below is attached a video showing an excessive play of the pitman arms and SAS bushing

Warranty:

Normal & BEST warranty applies

Attachment:

SAS Bushing and pitman arms bearings



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