



RYKER MY21 Misfire Faults on 903 - 139350

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Summary:

Some 903 engines may trigger misfire faults @ 3800RPM

Type:

General

TST Detail:

Problem :

Some RYKER MY21 with 903 engines are experiencing misfire Pcode (P0301) around 3800 rpm which is hard to solve.

The screenshot shows a diagnostic tool interface with the following details:

- Vehicle:** CAN-AM 3WV Ryker STD MY 210
- Fault Codes:**

Module	State	Code	Description
ECM	Occurred	P0301	Misfire detected rear cylinder (PTO)
- More Details:**

Parameter Name	Value	Unit
DTC	769	
DTC ECU	769	
Engaged Gear	1	
Engine Speed	3807.86	rpm
Engine Temperature	185	
Fault Frequency Counter	1	

Solution :

Please proceed through the following troubleshooting guideline in order :

- Before starting the diagnosis process, make sure all accessories power wires are disconnected from the battery.
- Check ground connections on the chassis, the engine and the battery.
- Validate also that the unit doesn't have poor quality fuel.
- Confirm the unit isn't low in fuel

1. Validate CVT

- Most of misfire codes generated by the CVT are triggering all 3 cylinders misfire codes. It is not recommended to replace CVT components unless you have a misfire code on more than 1 cylinder.
 - If you have more than 1 misfire cylinder code, then check the belt and replace if any damage are seen.

2. Inspect ignition system

- Check spark plug gap is correct and that no corrosion is on the spark plug. Check that there's no damage to the spark plug area.
- Inspect & test the ignition coils.
- Check wiring harness continuity between all ignition coils and ECM pin out.

3. Validate Spark plug & ignition coil

- Switch spark plug and coil from a cylinder without a misfiring code into the misfiring cylinder.
 - Test unit and reach operating RPM that initially triggered the fault code. Focus your test in this RPM range.

- If the misfire code transferred of cylinder from the switched parts, replace the faulty spark plug & the coil by new ones. Retest with new parts.

4. Validate fuel system

- Check fuel pressure. (if any of the test pressure are out of spec, inspect the fuel pump & replace if needed)
- If fuel pressure was within specifications, validate fuel pressure at RPM range that triggers the fault code. Make sure to test the unit at running engine temperature and while the engine temperature is still cold.
- If at RPM range the fuel pressure is good, switch fuel injector from non-misfiring cylinder with misfiring cylinder. If the fault code is transferred of cylinder replace the faulty injector.

5. Replace flywheel

- If all previous elements were good, replace the flywheel and test the unit.

6. Contact Technical support

- If none of the previous check allowed to solve the issue please contact us to allow us to assist you

Please in **every situation, open a technical case** to allow us to **know what solved the issue** you had on the unit.

Warranty :

- Normal warranty applies

Attachment:

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