

Vibration Felt Through Steering Wheel or Seats – Wheels/Tires – Diagnostic Procedure

MODEL
 1997 MY-ON XK Range
 1998 MY-ON V8 XJ Series
 VIN
 001001-ON
 812256-ON

Issue:

In the event of customer complaints of a vibration through the steering wheel and/or the seat, a procedure can be followed in order to rectify the concern.

Action:

If a customer complaint is received and the wheels and tires are suspected, the follow the workshop procedure below to assist in correcting the concern.

WORKSHOP PROCEDURE

1. Before any rectification work, inspect the vehicle for any damage to the wheels and tires.
2. Check the tire pressures and visually inspect the suspension components for tightness.
3. Drive the vehicle for a distance of 13-16 Km (8-10 miles approximately) at a speed of 80 Km/h (50 mph) to warm the tires and eliminate the possibility of incorrect diagnosis due to flat spotting of the tires.

Note: This procedure needs to be carried out prior to carrying out any analysis work. Driving the vehicle as recommended will work out any temporary flat spotting that may have occurred in the tires, especially if the vehicle has been parked for an extended period of time.

VVA SENSOR ON XK SEAT RAIL

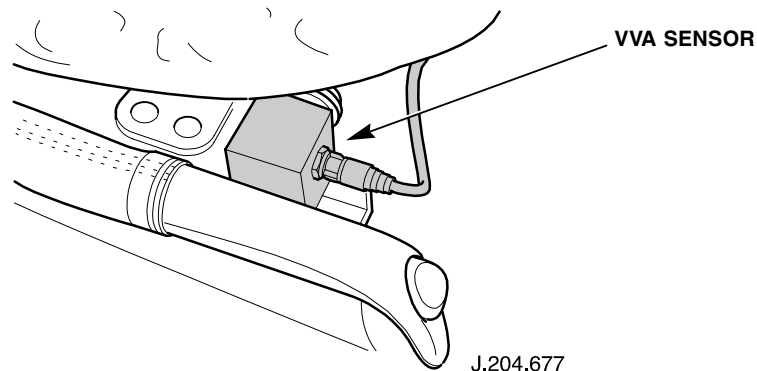


ILLUSTRATION 1

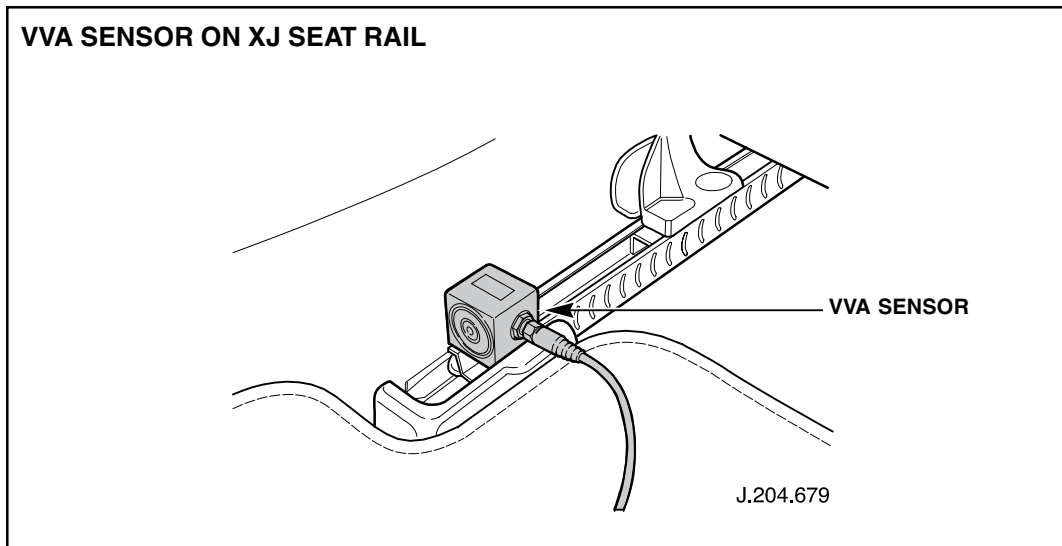


ILLUSTRATION 2

4. Once the tires are heated, the WDS Vehicle Vibration Analyzer (VVA) procedure must be carried out to determine the possible source of vibration.

Note: In the first instance the VVA sensor should be mounted on the seat rail in the X-axis orientation. If there is no reading in the X-axis (fore/aft) orientation, repeat test in the Y-axis (left/right) and Z-axis (up/down) or until a reading is obtained. (See Illustrations 1 and 2 for model applicability).

5. After the road test, return the vehicle to the workshop and raise it off the floor immediately to prevent any flat spotting of the tires.
6. If the balance of the wheel and tire is suspect, check/adjust the wheel and tire balance. Excellent results have been obtained when using a tire balancer with road force variation measuring capability.

Note: Use only balance weights of the 'two-piece' or 'stick-on' variety (Jaguar specification only). No claims will be accepted if knock-on weights have been used, and may result in debit action being undertaken.

FURTHER INFORMATION

Note: If a vibration is still present, call the Technical Hotline at 1-888-524-3577 for further guidance. Prior to the call, the Technical Hotline Precall Work Sheet (S-88, available on the Service and Warranty Forms CD-ROM) must be filled in along with the attached report form (the VVA results must be available and ready to fax).



VIBRATION REPORT FORM

		Your Ref:	
Date		Model	
VIN		Mileage	
Dealer		Customer Concern	
Contact		Tracker Case Reference Number	

Pre-road Test Wheel and Tire Inspection				
	Left Front	Right Front	Left Rear	Right Rear
Tire Tread Depth				
Date Code e.g. DOT 149 Week 14 1999				
Tire Pressures				
Condition of Tire e.g. Good, Poor, Damaged				
Tire Manufacturer				
Tire Size				
Wheel Style				

Suspension Information				
Suspension Type (Check where applicable)	Standard		CATS	
Suspension Checked for loose components? (Check where applicable)	YES		NO	

Road Test Report				
Vehicle Use (Check where applicable)	Highway		Urban	
Location of Vibration (Check where applicable)	Seat		Steering Wheel	
Speed Vibration Felt	Mph		Km/h	
Engine Speed (RPM)				
Type of Vibration Felt in Steering Wheel (Check where applicable)	Side-to-Side		Up and Down	
Vibration Constant? (Check where applicable)	YES		NO	
Type of Road Surface				
PDU/WDS Printout Attached? (Check where applicable)	YES		NO	
Was Flat Spotting Eliminated? (Check where applicable)	YES		NO	

Additional Comments:
