Advanced Technical Information

Bulletin #: 2000 Part ID: 4301 4

E3 Cayenne Air Suspension Leak Diagnosis

Vehicles Affected

Models	Models Model Year		VIN Range	Vehicle-Specific Equipment	
Cayenne	2019 - present	All	N/A	Air Suspension	

Revision History

Revision	Release Date	Changes		
0	June 12, 2020	Original document		

Condition

The vehicle appears to be sitting lower in one corner, one axle, or even all 4 corners in some cases.

Service Information

In an effort to make leak diagnosis in the air suspension a more streamlined process; leaks can be monitored via pressure values for each air circuit in the PIWIS tester.

			Cayenne 9YAGE1 / 2019 20 X Function Pressure measurement of Chassis control, air springs (006) selected. Start function with [F8].							
	PORSCHE									
÷			Overview	Extended identifications	2 Fault memory	³ Actual values input signals	Drive links checks	Maintenance repairs	⁶ Coding programming	S
۲	Home		Parameters					Value	Unit	
Q	Diagnostics		No parameter can be set				-		8	
	Data				Results			Value	Unit	
			Routine Status				not active		~	
			Routine Result	ts				Unknown status		
		_	Pressure, from	t left				6.50	bar	
			Pressure, from	t right				6.10	bar	
		- ł	Pressure, rear	left				4.80	bar	
			Pressure, rear	right				5.10	bar	
	US English Pressure in pressure accumulator					17.00	bar			
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AfterSales



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It is not necessary to remove air lines and plug them with a special tool. The 9YA Cayenne was designed with this new diagnostic process in mind.

As a result, the old 92A special tool (9825 fitting) doesn't fit the new 9YA Cayenne.

If a leak is suspected:

- Check the pressure values of the air circuits in the system.
- Fill any circuit where the value is below the set point
- Screen shot the values (a new screen shot can be taken later to show which circuit leaked)
- Monitor the pressure values of the air circuits at selected intervals such as every 2, 4, 6 hours or more.
- Once the circuit with the leak is determined, then further investigation to find the exact source of the leak may begin.

This is a more efficient method than disconnecting each circuit and installing a tool to isolate that circuit.

Warranty

Be sure to attach relevant screen shots of the pressure values to the job line to support an air leak.

- Set point pressures put in the vehicle to start the leak test
- Actual pressures after X amount of time that shows the leak.

Code the cause of failure and labors according to the diagnosed failure.

Search Items

Air suspension, leak, air leak, diagnosis, leak diagnosis

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