

S-TYPE	Date 03/2000	S206-02
<b>TECHNICAL BULLETIN</b>		

Subject SEALING PROCEDURE FOR WHEEL SPEED SENSOR TO BEARING HOUSING	Model S-TYPE Year 1999.25 MY VIN L00600 ONWARDS
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### ISSUE: S206-02 Sealing Procedure for Wheel Speed Sensor to Bearing Housing.

A sealing procedure has been introduced for the fitting of a wheel speed sensor into a front wheel bearing housing, preventing water ingress that otherwise may lead to the necessity of the renewal of wheel bearings.

The sealing procedure detailed below must be followed should it be necessary to replace a wheel speed sensor, or if the sensor has been displaced from the sensor housing for any reason.

### ACTION:

Flagging of the following DTC codes may be an indication of potential water ingress into the front Wheel Speed sensor systems, indicating that sensor replacement may be required:

Codes:	1145 - Right Front sensor:	Input Circuit failure
	1146 - Left Front sensor:	Input Circuit failure
	1233 - Left Front sensor:	Input Signal missing
	1234 - Right Front sensor:	Input Signal missing

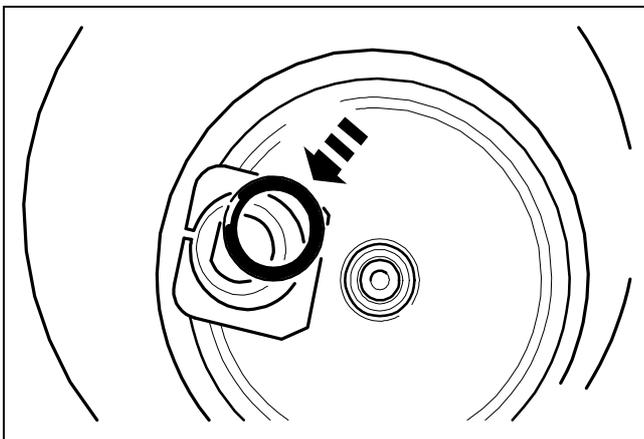
In the event of replacement of a wheel speed sensor being required, a careful inspection for possible water ingress, arising from inadequate sealing of the wheel speed sensor to the bearing housing, is essential.

Water ingress may be visible on the tip of the speed sensor itself. In this event irreparable damage to the wheel bearing will have commenced; replace the **wheel bearing and speed sensor assembly**. Do NOT separate the sensor from the new wheel bearing assembly - it is fully sealed into the bearing housing.

ONLY if there is **no sign whatever** of water ingress is it permissible to renew the sensor alone.

### REVISED PROCEDURE FOR WHEEL SPEED SENSOR REMOVAL & REPLACEMENT

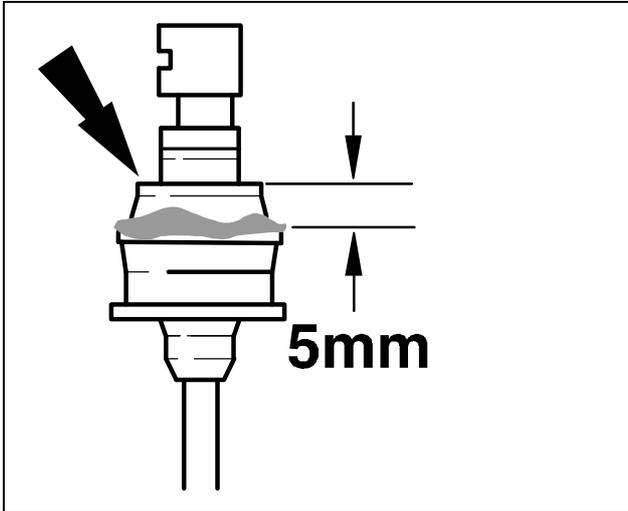
Whenever it is necessary to withdraw a wheel speed sensor from the wheel bearing housing, adopt the following procedure:



1. Press the 'flat' of the retaining clip towards the wheel speed sensor until the sensor is released. Withdraw the sensor head from the bearing housing for careful inspection. Where appropriate, renew the sensor.
2. Remove and discard the existing retaining clip.

LEFT - 'O' Ring Seal in Sensor Housing

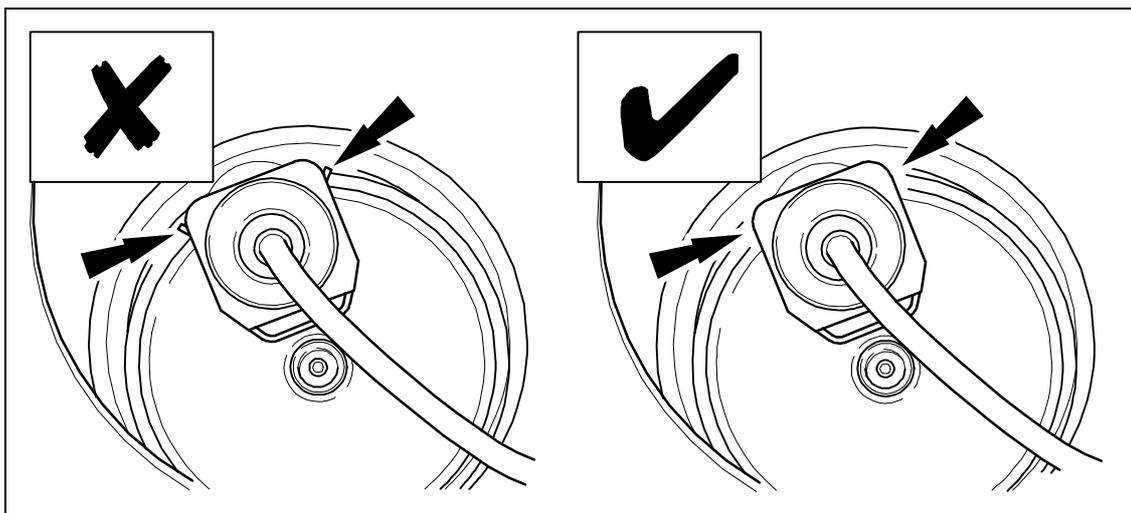
3. Remove and discard the existing 'O' ring seal from the bearing housing.
4. Clean the sensor housing in the bearing cap with a clean, dry, oil-free cloth.
5. Fit a NEW 'O' ring seal into the housing.
6. Fit a NEW retaining clip to the housing.



7. Apply a continuous bead of Loctite Permatex Ultra Blue Sealant to the sensor.  
The bead of sealant should be approximately 2.5mm thick and located approximately 5mm from the flange, as illustrated. The bead must be continuous and completely encircle the sensor.

Left - Bead of sealant (Shaded Area)

8. With the retaining clip pushed fully towards the housing, insert the sensor until it 'bottoms' in the housing.
9. Release the clip. If the sensor is fully seated, the 'ears' of the clip will NOT be visible - see illustration below.
10. If the 'ears' are visible, the sensor has NOT been fully seated. Push the sensor into the housing until the retaining clip takes up its correct position, with the sensor fully seated in the housing.



Sensor NOT fully seated  
Ears of clip are projecting

Sensor fully seated  
Ears of clip are concealed

**PARTS INFORMATION:**

The following should be ordered via Jaguar Parts Operations, as required:

DESCRIPTION	PART NUMBER	QTY/VEHICLE
Front Wheel Speed Sensor Kit - includes 'O' ring clip and sealant	XR8 16319	(2) As required
Front Wheel Bearing Assembly (complete with Speed Sensor)	XR8 19273	(2) As required
'O' ring seal, sensor to housing	XR8 5018	(2) As required
Clip, sensor retaining	JLM 21246	(2) As required
Loctite Permatex Ultra Blue	JLM 21208	As required

**WARRANTY INFORMATION:**

Warranty Fault Code:	HG-BB-D8	Wheel Speed Sensor LH - Failed Gasket/Seal
	HG-CB-D8	Wheel Speed Sensor RH - Failed Gasket/Seal

SRO:	70-60-03	0.30 hours Front Wheel Speed Sensor, Replace
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If the sensor is being sealed only a new 'O' Ring and spring clip must be used.

Claims must be submitted in accordance with the current Jaguar Warranty Policy and Procedures Manual and its amendments.