TECHNICAL BULLETIN

X303-61v2

06/2003

Subject

FUEL VAPOR FUMES ENTERING THE VEHICLE CABIN

Model: XK Convertible (North America and Canada Markets Only)

Year: 1999 to 2003 **VIN 031303 to A35945**

Model: XKR Convertible (North America and Canada Markets Only)

Year: 2000 to 2003 **VIN A00083 to A35945**

Section: 303	**Engine Systems**
Sub-Section: 303-13	**Evaporative Emissions**

Summary

X303-61: This Technical Bulletin has been issued to address customer complaints of fuel vapor fumes entering the vehicle cabin.

This Technical Bulletin has been issued due to a change of part number and is a replacement for Technical Bulletin X303-61. Please destroy all copies of X303-61 and replace it with this Technical Bulletin X303-61v2.

Action

On a customer complaint basis only, to resolve the fuel vapor fumes entering the vehicle cabin, follow the workshop procedure outlined below.

Workshop Procedure

Note: Ensure WDS is loaded with software release JTP 759/24 or later.

1 Position WDS alongside vehicle, switch Portable Test Unit (PTU) 'ON' and allow software to load.
2 Connect PTU to vehicle using diagnostic cable.
3 Enter VIN and allow the software to load to 'Content Model' screen.
4 Highlight 'Engine System' and select 'DTC Monitor' tab at top of the screen.
5 Allow software to load then select the 'Read DTC' icon on the right hand side of screen.

Note: If any DTCs are stored, the repairs are to be carried out as a separate Warranty Claim before continuing with the Workshop Procedure.

On all vehicles up to A30644 to confirm fuel purge system is operating correctly, continue from step 6. For vehicles post A30644 continue from step 10.

6 Select 'Vehicle Configuration' main menu tab at the top of the screen.
7 Select 'Special Applications'.
8 Display 'Engine Emission Control' drop down menu and select 'Purge Flow' and work through the diagnostic routine following on-screen prompts.
9 If after the diagnostic procedure has checked the system integrity, a screen is displayed stating that 'Fuel Tank Purge Flow has been verified to be operating correctly' continue from next step.

Note: If after the diagnostic procedure has checked the system integrity, a screen is displayed informing the technician to 'Check the vacuum drive signal outlet pipe from the evaporative purge valve to the inlet manifold is not blocked or damaged. A vacuum should be present at the vacuum drive signal outlet pipe with the engine running', continue with the diagnostic procedure. The repairs are to be carried out as a separate Warranty Claim before continuing with the Workshop Procedure below.

10 Switch 'OFF' PTU, disconnect from the vehicle and return WDS to original location.

On all vehicles.

11 Remove fuel tank (see Workshop Manual, JTIS CD ROM, section: 310-01).

Note: When removing the fuel tank refer to the drain procedure for XK 2003MY in Workshop Manual, JTIS CD ROM, section: 310-01 for vehicles with On-Board Refueling Vapor Recovery (ORVR).

12 Ensure the existing fuel tank to body seal is correctly positioned over the fuel tank return outlet (see Fig. 1).

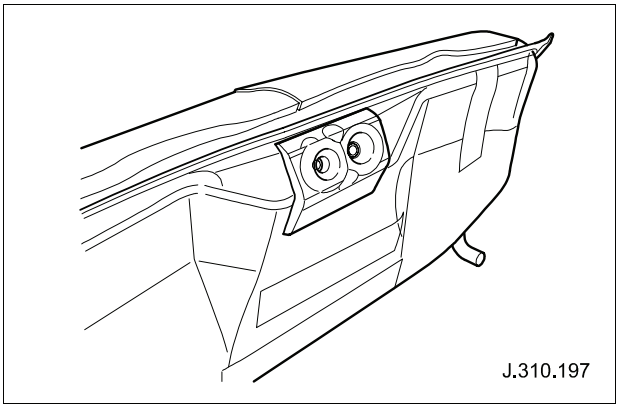

Fig. 1

13 Place new fuel tank to body seal to front, measure and mark the position (1) for the cut on the new seal (74.5mm from the short lip see Fig. 2).

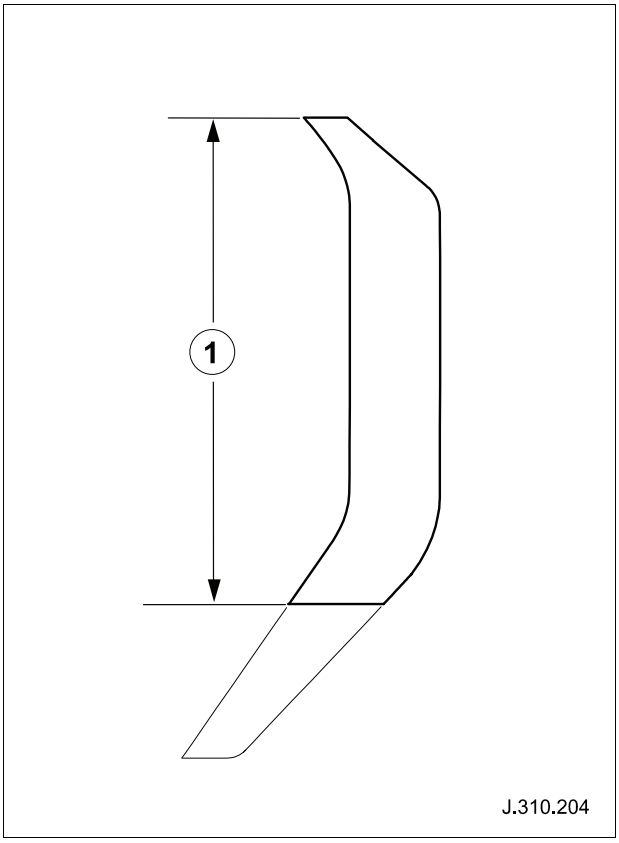

Fig. 2

14 Using a suitable sharp bladed tool and straight edge, cut and remove portion of the new seal (see Fig. 3).

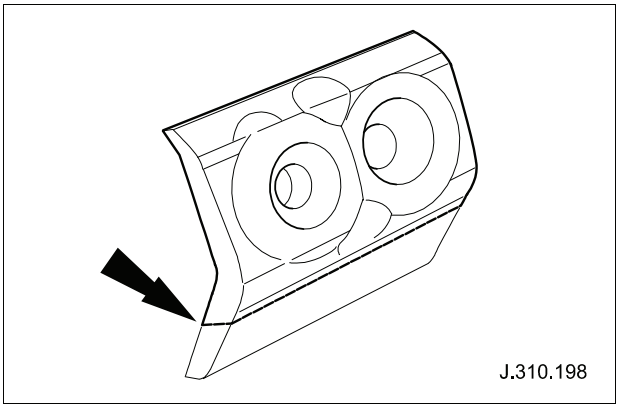

Fig. 3

15 Remove and discard backing paper from the new seal.

16 Align and install the new cut down portion of the seal onto the existing fuel tank to body seal (see Fig. 4).

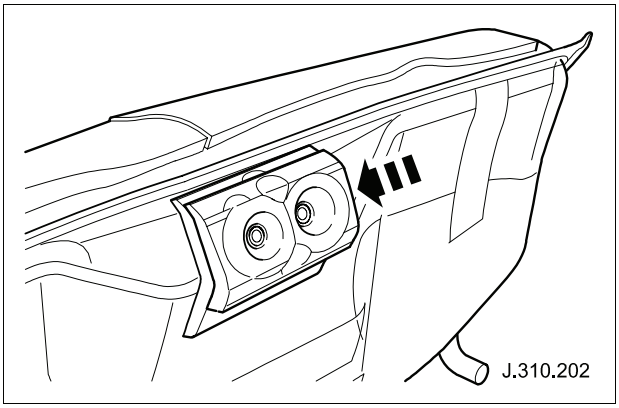

Fig. 4

17 Using suitable adhesive tape, secure both seals at each end (see Fig. 5).

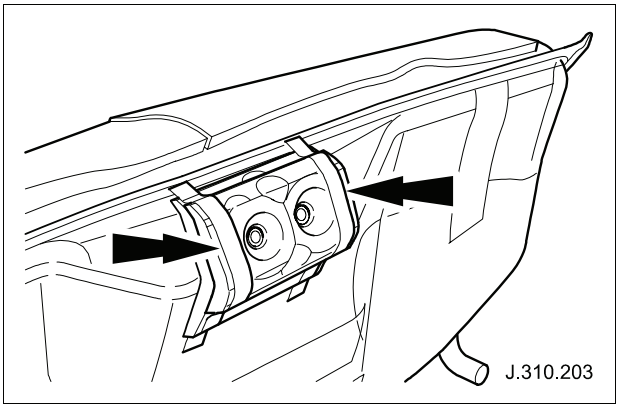

Fig. 5

18 Install fuel tank (see Workshop Manual, JTIS CD ROM, section: 310-01).

On all vehicles up to A33647 relocate and install a new evaporative emission canister (EVAP canister) vent hose and filter.

19 Raise vehicle on ramp.

20 Disconnect the EVAP canister vent hose from the original filter (see Fig. 6).

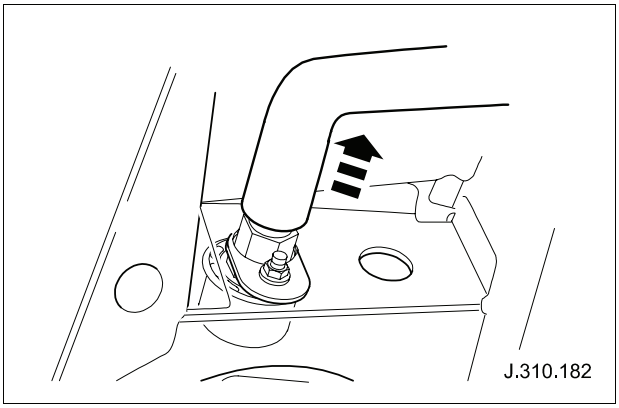

Fig. 6

21 Displace the vent pipe from the plastic body clips.
22 Reposition canister close valve electrical connector rubber cover and disconnect the electrical connector.
23 Release and reposition the canister close valve to the EVAP canister hose securing clip.
24 Undo and remove canister close valve to body securing nut.
25 Undo and remove EVAP canister to body securing nut (nut adjacent to canister inlet/outlet pipes).
26 Displace and reposition canister close valve and EVAP canister from body studs for access.
27 Disconnect canister close valve from EVAP canister hose.
28 Remove canister close valve/vent pipe assembly from vehicle.
29 Release and reposition vapor pipe hose to canister close valve securing clip.
30 Remove canister close valve from vapor pipe hose; remove securing clip and retain.
31 Cut, remove and discard clip securing original filter vent hose to vent pipe.
32 Remove original filter vent hose from vent pipe.
33 Install original filter vent hose to original filter.

Note: The previous step is so that the filter can be held in place when the nut is removed to stop the filter falling into the suspension turret, requiring the removal of the spring/shock assembly to retrieve the filter.

34 Assemble new filter and bracket.
Undo and remove original filter securing nut (see Fig. 7).

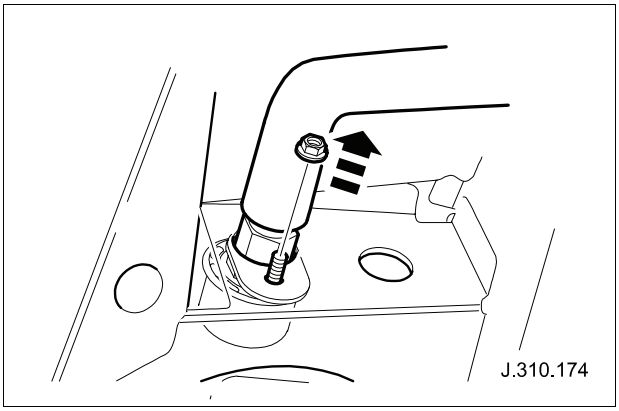

Fig. 7

35 Holding original filter in place by hose, install new filter/bracket assembly to old filter stud (see Fig. 8).

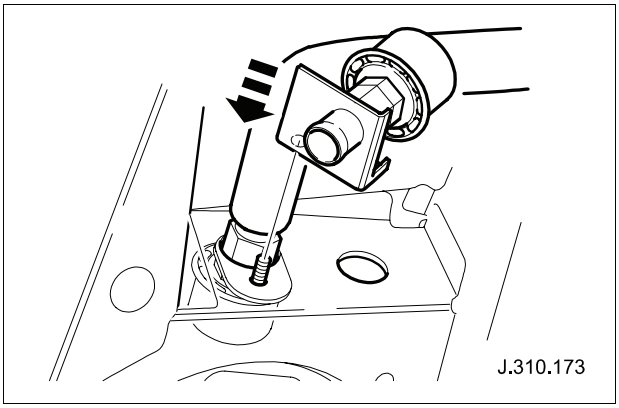

Fig. 8

36 Install but do not fully tighten securing nut.

Note: To aid operation, secure nut to a deep socket with masking tape (see Fig. 9).

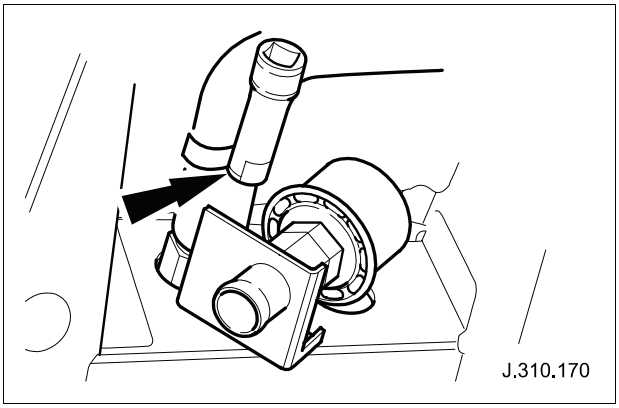

Fig. 9

37 Remove and discard original filter vent hose.
38 Align new filter body to give approximately 1mm clearance from original filter stub pipe (see Fig. 10).

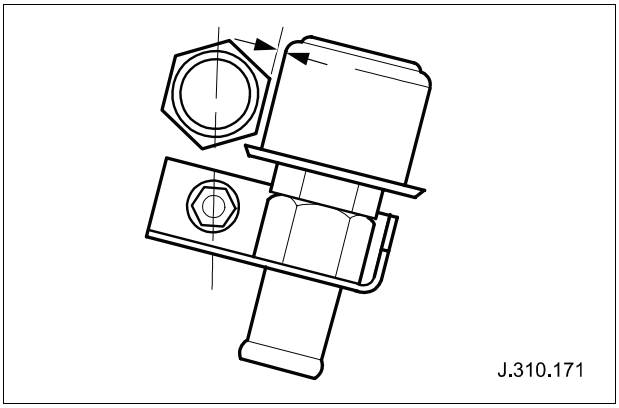

Fig. 10

39 Final tighten new filter securing nut.
40 Place new vapor pipe and hose assembly to front.
41 Install securing clip to vapor pipe hose.
42 Install canister close valve to vapor pipe hose.
43 Reposition vapor pipe hose to canister close valve securing clip.
44 Install canister close valve/vent pipe assembly to vehicle.
45 Connect canister close valve to EVAP canister hose.
46 Reposition EVAP canister and canister close valve to body studs.

Note: During previous operation, ensure canister close valve bracket alignment tang engages body hole.

47 Install and tighten EVAP canister to body securing nut.
48 Install and tighten canister close valve to body securing nut.
49 Reposition and secure canister close valve to EVAP canister hose securing clip.
50 Connect canister close valve electrical connector and re-align rubber cover.

51 Secure vent pipe to plastic body clips.
52 Connect EVAP canister vent hose to new filter.
53 Install new blanking plug to the left hand side rear road spring turret (see Fig. 11).

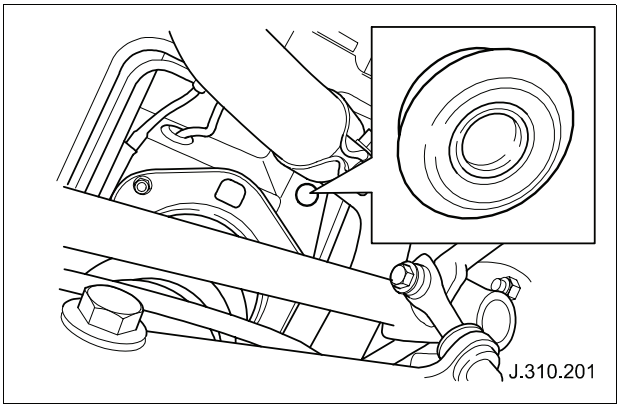

Fig. 11

54 Install new blanking plug to the right hand side rear road spring turret (see Fig. 12).

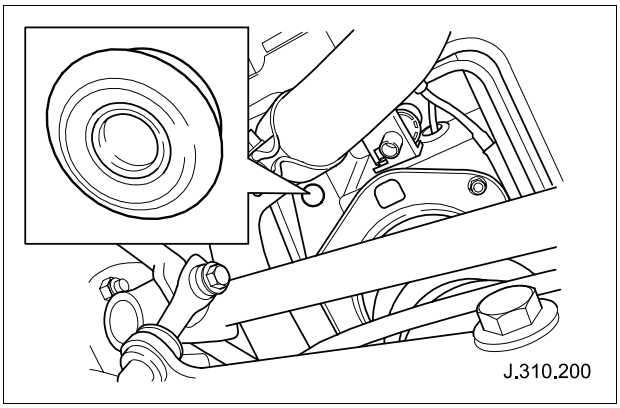

Fig. 12

55 Lower vehicle on ramp.

Parts Information

The following parts must be ordered via Jaguar Cars Parts Operations (or through NSC/Importer).

Description	Part Number	Quantity
Filter bracket	NND 6124AE	1
Filter	NND 6092AA	1
Blanking plug	C2S 10713	2
Pad	NJA 6029AD	1
Pipe assembly	NJC 6107AD	1

Warranty Information

Description	SRO	Labor Time Allowance	Warranty Code	Causal Part
Check DTCs, confirm fuel purge system is operating correctly, carry out fuel tank modification and install a new EVAP canister vent hose and filter up to VIN A30644.	17 91 38	2.9 Hours	XJ-BM-D8	NJA 6029AA
Check DTCs, carry out fuel tank modification and install a new EVAP canister vent hose and filter from VIN A30645 to A33647.	17 91 38	2.9 Hours	XJ-BM-D8	NJA 6029AA
Check DTCs, carry out fuel tank modification from VIN A33648 to A35945.	17 91 38	2.4 Hours	XJ-BM-D8	NJA 6029AA