



Technical Service Bulletin

No.JTB00112
21 July 2008

Reissue

Please replace the previous edition of this bulletin.

This bulletin supersedes TSB A310-04v3/2005 dated 05 April, which should either be destroyed or clearly marked to show it is no longer valid (e.g. with a line across the page).

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|-------------------------|--|--|--|
| Subject/Concern: | Accidentally Filling the Fuel Tank with Gasoline Instead of Diesel | | |
| Models: | | | |
| X400 | | | |

Markets: All

Section: 310-00

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| Summary: |
| Repair procedure following customer incorrectly fuelling a diesel engine vehicle with gasoline. |
| Version 3 of this Bulletin adds a link to the Vehicle Incident Report form in GTR. |
| Cause: Customer Error/Mistake. |
| NOTE: The customer MUST be informed prior to vehicle hand-over of the consequences of adding gasoline to the fuel tank instead of diesel. |
| NOTE: If the customer refuses the advised repair or wants a lower level repair than advised, the vehicle must be added to the Restricted Warranty Register. |
| Action: The Service Instruction below describes the three possible scenarios in instances of a customer incorrectly fuelling a diesel engine vehicle with gasoline. When customers report a mis-fuel, allow them to fully explain exactly what took place before advising the necessary repair. |

Service Instruction

NOTE: The cost of this repair work is not Jaguar's responsibility. If the customer does not have all of the appropriate work carried out, warranty may be refused on all affected components.

- 1 . **NOTE: Vehicle incorrectly fuelled and the engine has not been cranked.**

Referring to relevant section in workshop manual, drain the fuel tank.

- 2 . Remove fuel level sensor.
- 3 . Remove all traces of residual fuel within the tank using clean absorbent cloth/paper.
- 4 . Invert the fuel level sensor to remove all traces of residual fuel.
- 5 . Reassemble the fuel level sensor to the fuel tank.
- 6 . The fuel tank must be filled with fresh diesel fuel.
- 7 . Road test vehicle.
- 8 . Return vehicle to customer.
- 9 . **NOTE: Vehicle has run for less than two minutes.**

Referring to relevant section in workshop manual, drain the fuel tank.

- 10 . The residual fuel from all parts removed needs to be checked for metal particles.
- 11 . Remove fuel level sensor.
- 12 . Remove all traces of residual fuel within the tank using clean absorbent cloth/paper.
- 13 . Invert the fuel level sensor to remove all traces of residual fuel.
- 14 . Remove fuel filter and discard.
- 15 . Disconnect fuel feed and return pipes to high-pressure pump.
- 16 . Flush all low pressure fuel lines and return pipes with clean diesel fuel.

- 17 . Reassemble the fuel level sensor to the fuel tank and reinstall the fuel tank, fill with 15 litres of fresh clean diesel fuel.
- 18 . Install a new fuel filter, prime the system using hand primer pump special tool 310-110 to the end of the high pressure fuel pump supply line (see graphic E96818).

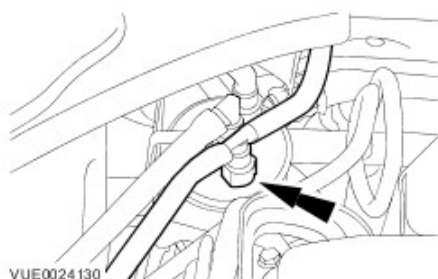


- 19 . If no metal particles have been detected, continue from step 39.
- 20 . If any metallic particles have been detected in steps 10 through to 18.
- 21 . Carry out the following high pressure fuel pump test.
- 22 . Position a absorbent cloth over the generator to collect any diesel spillage.
- 23 .



CAUTION: Before disconnecting or removing the components, make sure the area around the joint faces and connectors are clean. Plug open connections to prevent contamination.

Disconnect the high-pressure fuel pump return line from the fuel filter.



- 24 . Depress the quick release connector.
- 25 . Install the blanking cap to the open port of the fuel filter.
- 26 . Position a clean transparent container under the open union of the high pressure fuel pump line (at least 0.25 litre capacity).
- 27 . **NOTE:** If the vehicle is of a non-start condition, this step can be carried out by cranking the engine.

Start the engine and allow it to idle until a fuel sample of approximately 0.25 of a litre has been collected.

- 28 . Stop the engine.
- 29 . Use a magnet on the underside of the container to draw any magnetic particles into a single deposit.



- 30 . Record the diameter of the deposit.
- 31 . Record the color of the deposit.
- 32 . Are there any black metal particles present in the fuel sample from the high pressure pump return line with a deposit diameter of more than 5mm?
- 33 . **NOTE:** SRO 19.50.10 must be used for the repair time when replacing the high pressure fuel pump, fuel injectors, fuel rail in a combined replacement procedure, which can be referenced in DDW.

Yes: Replace the high pressure fuel pump, fuel injectors, fuel rail and all high pressure pipes.

- 34 . Remove the blanking cap from the fuel filler return port.

- 35 . Connect the high-pressure fuel pump return line to the fuel filter.
- 36 . Remove the absorbent cloth from the generator.
- 37 . Road test vehicle for at least 10 miles, checking for normal engine operation and no DTCs.
- 38 . Return vehicle to customer.
- 39 . **NOTE: Vehicle has been driven until it stops or over two minutes.**

The entire fuel system will need reworking as follows:

- 40 . Referring to relevant section in workshop manual, drain the fuel tank.
- 41 . Clean and flush all low pressure fuel pipes.
- 42 . Replace the fuel filter.
- 43 . Replace the high pressure fuel pump.
- 44 . Replace all high pressure fuel pipes.
- 45 . Replace the fuel rail.
- 46 . Replace all four fuel injectors.
- 47 . Remove fuel level sensor.
- 48 . Remove all traces of residual fuel within the tank using clean absorbent cloth/paper.
- 49 . Invert the fuel level sensor to remove all traces of residual fuel.
- 50 . Reassemble fuel level sensor to the fuel tank.
- 51 . The fuel tank must be filled with fresh diesel fuel.
- 52 . Road test vehicle for at least 10 miles, checking for normal engine operation and no stored fault codes.
- 53 . Return vehicle to customer.

In order for Jaguar to keep a record of all instances of petrol being added to diesel derivative vehicles, dealers and Importers must complete the relevant section in the Incident Report Form and return to the address detailed on the form.

To obtain the Vehicle Incident Report Form (JTP993 March 2004) see Global Technical Reference GTR, select a Language, Service Information, X-TYPE, 03/04 or 05MY, Vehicle Inspection Information. This form should be filled out every time a mis-fuel is reported.

The requirement for submitting a Vehicle Incident Report form to Jaguar Cars is primarily covered in the Warranty Policy and Procedures Manual Section A4.2 Warranty Restriction - Specific Restrictions.

Contact details:

Completed forms can be faxed to:

Warranty Operations

Fax 00 44 (0)1926 649206

Vehicle mis-fuelling will not result in a formal warranty restriction if the approved repair has been carried out.

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