

Reference	SSM72087
Models	XF / X250 XJ / X351
Title	XF/XJ Eco Stop/Start Additional Diagnostics Information
Category	Electrical
Last modified	04-Dec-2014 00:00:00
Symptom	203000 Basic Electrical
Attachments	Unique DTC Code.pdf

Content

Issue: A customer may report one of the following symptoms:

- 1) Battery Charging Warning message or Eco Stop Inhibited message is displayed in the instrument cluster
- 2) Eco Stop is non-functional over a number of drive cycles
- 3) The vehicle experiences an un-commanded shutdown after an ECO Stop event and requires an ignition restart.

Cause: Various conditions can lead to the concern, as detailed below

Action: **Check the car is in the affected vehicle range (see VIN list per model below)**

XF 2013 MY> S61362

3.0 V6 Petrol
5.0 V8 Petrol
5.0 V8 S/C Petrol

XF 2014 MY> U09026

2.0 GTDi I4 Petrol

XJ 2013 MY> V39427

3.0 V6 Petrol
5.0 V8 Petrol
5.0 V8 S/C Petrol

XJ 2014 MY> V58603

2.0 GTDi I4 Petrol

If the vehicle is within one of the VIN ranges above, then follow the instructions below;

ENSURE GATEWAY MODULE SOFTWARE IS UPDATED TO THE LATEST LEVEL BEFORE BEGINNING DTC DIAGNOSIS**1. CAUTION: This procedure requires SDD DVD135.01 and Calibration File 145 loaded or later.**

Connect the Jaguar approved battery support unit / power supply.

2. Connect SDD to the vehicle and begin a new diagnostic session, by reading the VIN for the current vehicle and initiating the data collect sequence.

3. Follow the SDD prompts.

4. Using the Midtronics Device check to see that the main and secondary batteries have a good state of charge and are serviceable.

5. Where no internet access is available.

A). Select the Diagnosis Session Type.

B) Select the Symptoms tab and enter any of the following Symptom(s).

• Powertrain - Engine system - Engine performance - Engine stalls.

C) Select the Recommendations tab.

D) Configure existing module - Gateway module.

6. Cycle ignition. After engine has started listen in the boot of the vehicle for the Dual Battery Fuse Box (DBFB) Self-Test Routine. After

40-60 seconds of the vehicle starting the DBFB will test the two internal contacts on and off. A successful routine will generate 4 cyclic audible clicks from the DBFB, as the contactors charge and discharge. If 4 audible clicks are not heard then, using SDD, read the DTC's logged and refer to the DTC table shown in step 10 and attached as a PDF file to this SSM.

If the battery has been disconnected go to step 7, else go to step 8

7. If battery has been disconnected reset Battery Monitor – Incorrect battery monitor state will cause the alternator to enter a cyclic continuous charge mode and ECO Stop will not function. Throttle Adaptions will also need to be reset.

8. Conduct a drive cycle to ensure Eco Stop is functioning. Ensure that the seatbelt is on, electrical load on the vehicle is kept to a minimum and the outside temperature is >5C(41F)

9. If ECO Stop is correctly activated during the drive cycle return the vehicle to the customer, advising of the parameters that can inhibit the operation of ECO Stop.

10. If ECO Stop does not activate after the drive cycle and a DTC is generated please refer to the information in the DTC table attached, after ensuring that all wiring and earth points leading into the Dual Battery Module, Dual Battery Fusebox, Secondary Battery and Gateway module connector are correctly seated and the circuits are complete.

NOTE: In order for Eco Stop to be *active* a number of criteria need to be fulfilled such as:

Temperature > 5c (41F)

Battery Charge State > 70%

Seatbelt On

Door Closed

Speed before stop >5mph

Sufficient pressure applied to brake pedal during stop

Vehicle electrical loading

Ratings:

Technicians - Please rate this SSM and provide comments so that future communications can be improved.

1 = Poor – Basic information provided – The SSM does not help me resolve the customer concern.

3 = Average – Adequate information provided – The SSM partially helps me resolve the customer concern.

5 = Excellent – All required information provided to resolve the customer concern.