



## **Lotus Sport & Performance Centre – Fitting Instructions**

### **Fuel Drain System (BLS3L0072F) – Issue 1**

These fitting instructions describe the installation of the fuel drain system to a Lotus 2-Eleven. Installation in a Toyota 2ZZ-GE engined Elise or Exige follows a similar procedure but with minor differences in component positioning to suit the layout of the engine bay.

**Fitting Level (1=Easy, 5=Hard) - 3**

#### **Tools Required**

Rivet Gun  
Beta Seal Applicator  
Wire Crimpers  
Socket Set and Ratchet  
Pipe Cutters  
Oeteka Clip Pliers  
Lotus Service Manual (A117T0327J)

#### **BLS3L0072F - Kit Contents**

1x	ALS3L0060F	STAUBLI CONNECTION, FUEL DRAIN, CAR SIDE
1x	ALS3L0069F	CONNECTOR, 90DEG, -6 JIC TO 3/8 HOSE
1m	ALS3L6005F	HOSE, EVAC CANISTER CONNECTION, 8.0ID
1x	ALS3L0070F	T PIECE, FUEL DRAIN CONNECTION
1x	ALS3L0071F	BRKT., STAUBLI MTG
2x	A075W6090Z	RIVET
1x	ALS3L0039F	PIPE, FUEL DRAIN, REVISED
1x	ALS3M0340F	BRIDGING LINK, FUEL DRAIN
2x	A082L6227F	CLIPS
1x	ALS3M0348F	CONNECTOR, FUEL DRAIN WIRING
1x	ALS3L0073F	O RING, 12MM ID, 2.2MM THICK

#### **Instructions**

##### **Plumbing**

1. Cut the hose to a length of 600mm.
2. Press the 90° connector (ALS3L0069F) into the hose ensuring it is pressed in completely.



3. Slide the 2x 17.5mm Oeteka Clips (A082L6227F ) over the hose and press the T Piece (ALS3L0070F) into the opposite end.

4. Using the correct pliers clamp the Oeteka Clips to retain securely both the T Piece and the 90° connector. Orientation of the T Piece is unimportant.



5. Isolate the battery.
6. Bond the bracket (ALS3L0071F ) to the bodywork as illustrated. Drill through the 2 upper holes in the bracket and the bodywork and use the 2 rivets (A075W6090Z) to retain it in place.



7. Ensuring that the engine is cold, place a wad of tissue or a cloth beneath the Fuel Pipe security connector. Slide the orange retainer back along the pipe and disconnect the fuel line by pressing in the 2 buttons on either side and pulling the pipe and connector apart.



8. Connect the new T Piece between the existing T Piece and the hose disconnected in 6.



9. Slide the O Ring (ALS3L0073F) over the Staubli Fuel Connector (ALS3L0060F) and slide the threaded portion through the central hole in the bracket fitted in 5. Screw the 90° connector onto the Staubli connector at the rear of the bracket and torque to 25Nm.
10. Remove the Tissue or cloth and Cable tie the hose to suitable components to tidy up the routing leaving enough slack to permit engine movement.



## Wiring

1. Remove the smaller Econoseal connector block from the Multi function relay block and locate the terminal connected to the Black wire with the purple line indicator, Cavity 2.



2. Back out the terminal for this wire from the connector block and remove the terminal from the wire. Using the open Black and purple wire from the Fuel drain wiring loom (ALS3M0348F) connect the 2 wires together. Terminate these and refit to cavity 2 of the Econoseal connector using the seal to prevent water ingress.
3. Drill and bolt the M8 Eyelet connector to the aluminium bulkhead.
4. Cable tie the other end of the Fuel drain wiring loom to the pipework near the Staubli connector.
5. Reconnect the Battery.

## **Operation**

1. To operate the Fuel drain system plug in the Fuel drain hose (separate component ALS3L0039F) to the Staubli connector fitted earlier taking care to ensure the engine is not running and the ignition is turned off. Ensure the other end of the hose is fitted into a suitably sized/type of container for draining fuel.
2. Plug the Bridging Link (ALS3M0340F) into the wiring connector, again ensuring the ignition is off.
3. Turn the ignition to position 2 so that the dash lights light up but the engine does NOT start.
4. Once the Fuel is drained turn off the ignition and disconnect both the Fuel Drain Pipe and the Bridging Link. **DO NOT LEAVE THE BRIDGING LINK ATTACHED WHILST THE CAR IS RUNNING.**

## **Disclaimer**

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