TECHNICAL BULLETIN
JTB00377NAS1
05 JAN 2015

SB-10057687-7322

NOTE: The information in Technical Bulletins is intended for use by trained, professional Technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these Technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by 'do-it-yourselfers'. If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Jaguar service facility to determine whether this bulletin applies to a specific vehicle.

SECTION: 418-00

Fluid Ingress Into Central Junction Box

AFFECTED VEHICLE RANGE:

XF (X250)
Model Year: 2012-2015
VIN: S20753-U50461

MARKETS:

USA

CONDITION SUMMARY:

Situation: Multiple warning lights may illuminate on the Instrument Cluster.

Cause: This may be caused by fluid ingress through the front end wiring harness and washer pump.

Action: Should a customer express this concern, follow the Service instruction outlined below.

PARTS:

418-107	Red butt splice connector	Quantity: 2-9
C2Z30929	Harness repair kit	Quantity: 1
C2Z30987	Washer pump	Quantity: 1
C2Z31036	Water blocking splice	Quantity: 1
C2Z26803	Central junction box (VIN S20753-S61361)	Quantity: 1
C2Z26960	Central junction box (VIN S61362-U50461)	Quantity: 1

TOOLS:

NOTE: This is an 'Active Bulletin' that will display a functional programming shortcut if accessed within a diagnostic session using SDD.

SDD with latest DVD and Calibration File; first available on DVD139.03 v.186
Jaguar Land Rover-approved Midtronics battery power supply
Refer to Workshop Manual / Service Instruction for any required special tools

WARRANTY:

NOTE: Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to TOPIx to obtain the latest repair time.

NOTE: DDW requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Central Junction Box - Renew; Wiring harness - Modification	**86.94.87**	2.10	X4	C2Z8869

NOTE: Normal Warranty procedures apply.

SERVICE INSTRUCTION:

Central Junction Box (CJB) Connector C3BP01E Cavity / Wire Color Reference

NOTE: Use the table below for size and color of the wire to be used for repairing the wiring harness.

Electrical Connector Cavity	Original Wire Color	Wire Color Used For Repair From the Harness Repair Kit

5	Green/Violet	White
6	Blue/Green	White
7	Blue/White	Green
8	Brown/Blue	Green
15	Yellow/Violet	White
16	Green/Violet	Blue/White
18	Green	White
20	Grey/Red	White

NOTE: Corrosion is considered to be any discoloration of the Central Junction Box (CJB) or connector terminals; only the lower cavities 5-8 and 15-20 will be affected.

1. Remove the cowl side trim panel (see TOPIx Workshop Manual, section 501-05).

2. **CAUTION: Do not use an airline or hot air gun to dry the connectors as this will cause further damage.**

   NOTE: If moisture is found, leave the electrical connector disconnected and pointing downwards for 24 hours; this will allow time for any fluid to drain from the harness.

   Disconnect the Central Junction Box (CJB) connector (C3BP01E) and inspect the connector for moisture and/or corrosion.

   - If there is no corrosion and/or moisture, **NO** further action required.
   - If corrosion and/or moisture is found, continue to the next step.

3. **NOTE: Before removing the CJB, all vehicle keys MUST be present.**

   Remove the CJB (see Topix Workshop Manual, section 418-00).

4. Remove the front right-hand fender splash shield, (see TOPIx Workshop Manual, section 501-02).

5. Disconnect all three electrical connectors and inspect for moisture.

6. **CAUTION: Do not use an airline or hot air gun to dry the connectors as this will cause further damage.**

Tap the electrical connectors on a piece of paper to see if any moisture exits the electrical connectors.

- If moisture is found, leave all electrical connectors disconnected and pointing downwards for 24 hours; this will allow any fluid to drain from the harness.

  • If moisture is still present after the 24 hours, the electrical connectors must be left to drain completely; check at regular intervals until considered completely dry.

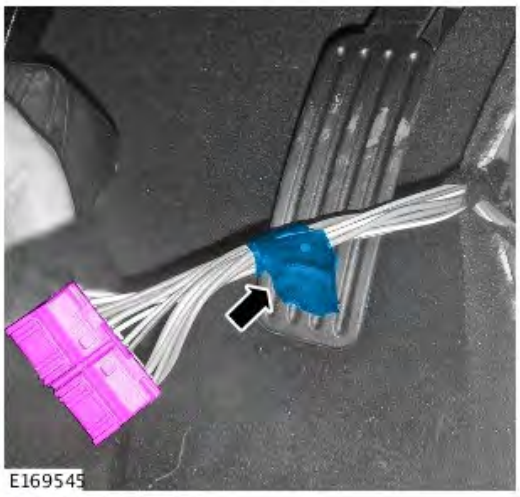
7. **NOTE: Be prepared to collect escaping fluids.**

Install a new lower washer pump (see TOPIx Workshop Manual, section 501-16).

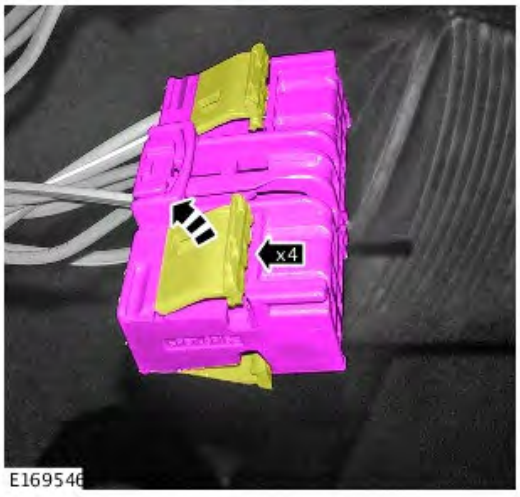
- Connect the electrical connectors.

8. Install the front right-hand fender splash shield (see TOPIx Workshop Manual, section 501-02).

9. Remove the cloth tape from the wiring harness breakout-to-CJB electrical connector C3BP01E to gain access to the wiring harness.



10. Open the four retention wings on the electrical connector C3BP01E.

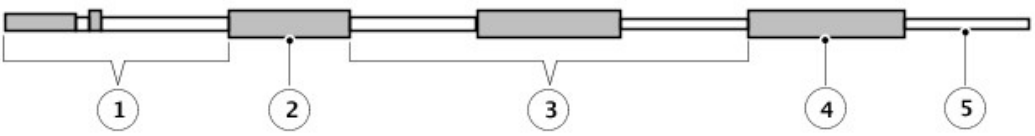


11. **CAUTION: Failure to change the electrical terminals correctly will cause damage to the vehicle.**

Using the terminal extraction tool and the new electrical connector block provided in the service kit, remove the unaffected terminals **one by one** and place them in the corresponding cavity of the new electrical connector block.

12.

NOTE: Graphic shows the complete water blocking splice when assembled; use the key below to identify the correct parts.



E170207

Assemble the water blocking splice:

1. Green

pre-terminated lead

2. Red butt splice connector

3. Water blocking splice

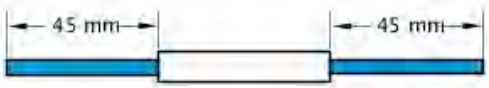
4. Red butt splice connector and heatshrink

5. Original wiring harness (Blue/White)

13. NOTE: A minimum of 45 mm length of wiring harness each side of the water blocking splice is required.

Using a suitable tool, cut the wire on either side of the water blocking splice.

- Make sure there is a minimum of 45 mm length of wiring harness each side of the water blocking splice.

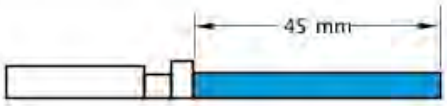


E170209

14. NOTE: A minimum of 45 mm length of wiring harness each side of the water blocking splice is required.

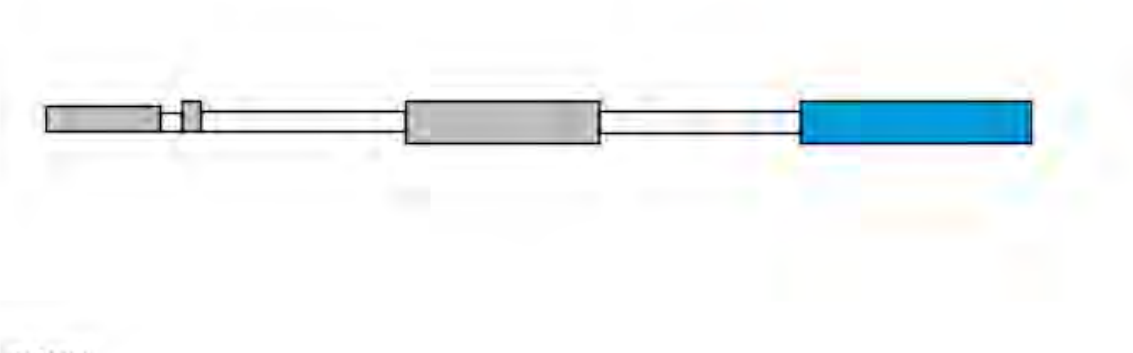
Using a suitable tool, cut the green pre-terminated lead to length.

- Make sure there is a minimum of 45 mm length of wiring harness each side of the water blocking splice.



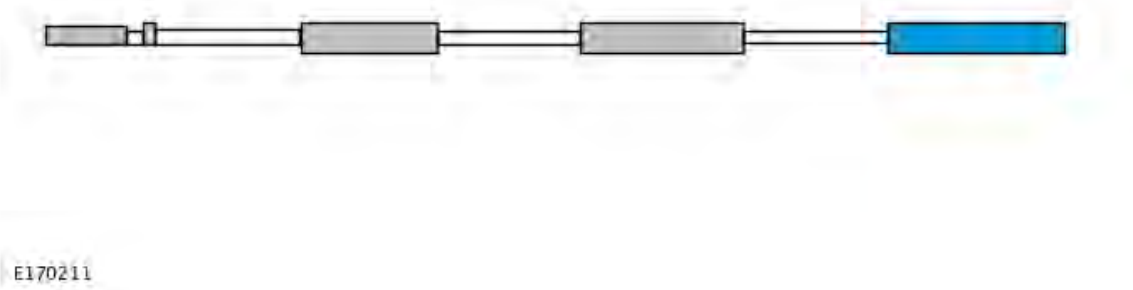
E170208

15. Using a suitable tool and an approved red butt splice connector, connect the water blocking splice to the green pre - terminated lead.



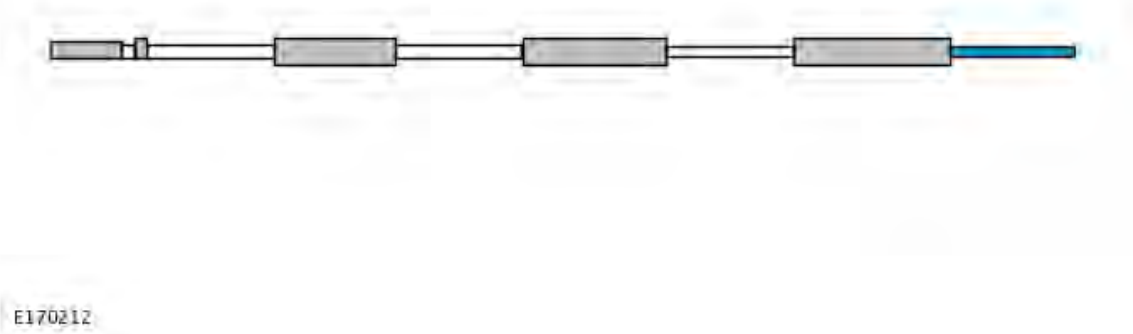
E170210

16. Using a suitable tool, add an approved red butt splice connector to the water blocking splice lead.



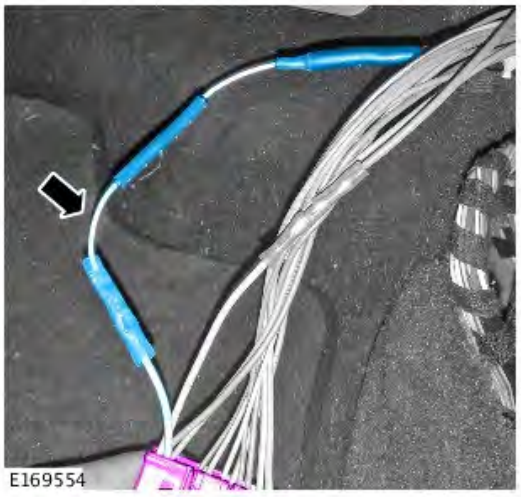
E170211

17. Using a suitable tool, splice in to the blue and white washer pump wiring harness and cover with the supplied heat shrink.



E170212

18. Insert the green pre-terminated lead into cavity 7 of the electrical connector.

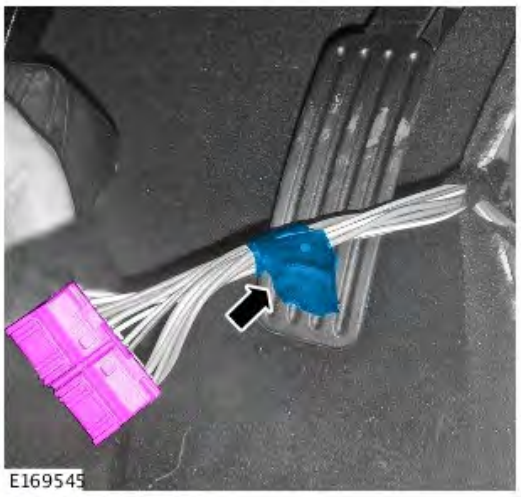


19. **NOTE: Refer to the table above for wiring harness size and color in the harness repair kit.**

NOTE: Cut the wiring harness at suitable lengths to allow spacing of the splices along the wiring harness branch.

For any remaining damaged wiring harness, cut off the damaged terminals one-by-one and splice the relevant pre-determined lead to the cut wiring harness using the approved red butt splices from the standard repair kit.

20. Tape the wiring harness using cloth tape.



21. Install the CJB (see Topix Workshop Manual, section 418-00).

CAUTION: A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle battery during SDD diagnosis / module programming.

CAUTION: Ensure all ignition 'ON' / ignition 'OFF' requests are carried out; failure to perform these steps may cause damage to control modules in the vehicle.

NOTE: SDD must be loaded with DVD139.03 v.186 or later.

NOTE: The Central Junction Box (CJB) may also be referred to as Body Control Module (BCM).

22. Connect the Jaguar Land Rover-approved Midtronics battery power supply to the vehicle battery.

23. Turn ignition 'ON' (engine not running).

24. Connect the Symptom Driven Diagnostics (SDD) system to the vehicle and begin a new session.

25. Follow the on-screen prompts, allowing SDD to read the VIN and identify the vehicle and initiating the data collect sequence.

26. Select 'Service Functions' from the Session Type screen.

27. Select 'continue'.

28. Select the 'Recommendations' tab, and then select '**Run**' to perform the 'Configure new module - Central junction box (body control module)' option.

29. Follow all on-screen instructions to complete this task.

30. Exit the current session.

31. Disconnect the SDD and the battery power supply from the vehicle.