

TECHNICAL BULLETIN

LTB01001NAS1

10 OCT 2016



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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 Land Rover service facility to determine whether this bulletin applies to a specific vehicle.

SECTION: 303-14

Engine Speed Drops During Windshield Wiper Operation

AFFECTED VEHICLE RANGE:

Range Rover Sport (LW)

Model Year: 2016
VIN: 519971-599874 TDV6 3.0L Diesel - Gen 2
Assembly Plant: Solihull

Range Rover Sport (LW)

Model Year: 2016 Onwards
VIN: 100369 Onwards TDV6 3.0L Diesel - Gen 2
Assembly Plant: Solihull

Range Rover Sport (LW)

Model Year: 2016 Onwards
VIN: 617562 Onwards TDV6 3.0L Diesel - Gen 2
Assembly Plant: Solihull

Range Rover (LG)

Model Year: 2016 Onwards
VIN: 216967 Onwards TDV6 3.0L Diesel - Gen 2
Assembly Plant: Solihull

MARKETS:

NAS

CONDITION SUMMARY:

Situation: The engine speed may drop (approximately 300-400 rpm) during windshield wiper operation. The issue is more likely when high electrical demand systems such as heated windshield, heated seats, lights, etc. are being used. A change of state from the wiper motor is also required (start, coming to rest, or switching between speed settings).

Cause: This may be caused by voltage transients from the windscreen wiper motor/accelerator pedal sensor wire which then couples the transient into the Powertrain Control Module (PCM) resulting in a voltage drop out on the 5 volt rail (internal to the PCM) for 100µs which is enough to cause a reset of the crankshaft position sensor creating a 'lost tooth'.

Action: Should a Customer express this concern, follow the Service Instruction below.

PARTS:



NOTE: An allowance (\$0.60 [CAD], \$0.45 [USD]) has been provided to cover the cost of locally sourced cable tie.

ZZZ001

Cable Tie

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WARRANTY:



NOTE: An allowance (\$0.60 [CAD], \$0.45 [USD]) has been provided to cover the cost of locally sourced cable tie.



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.

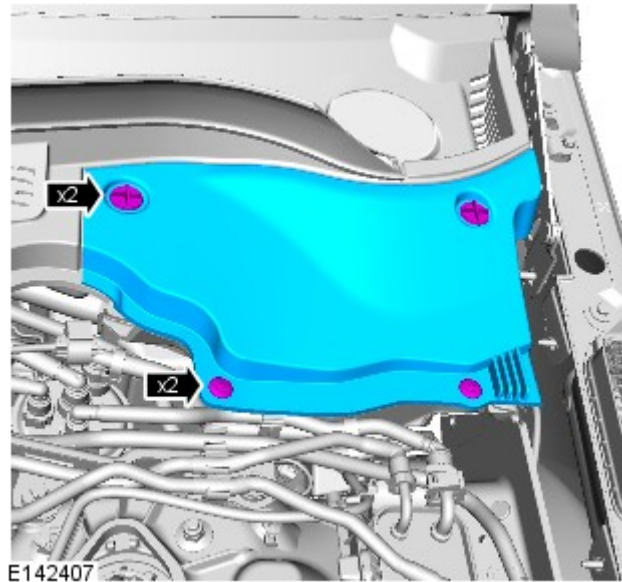
DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
D7u wiper issue rework	86.71.89.66	0.2	X7	LR070402



NOTE: Normal Warranty procedures apply.

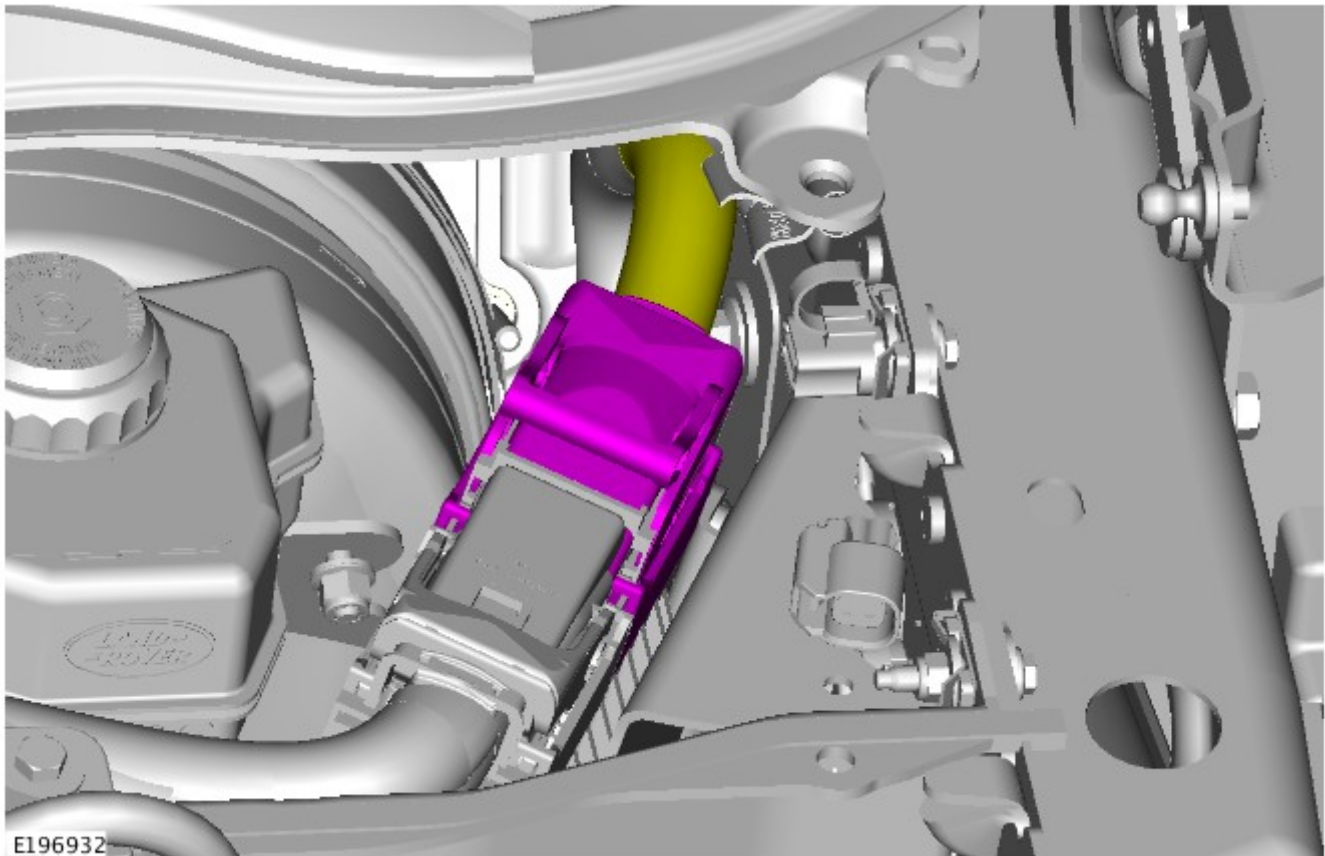
SERVICE INSTRUCTION:

1. Open the hood.
2. Disconnect the battery (see TOPIx Workshop Manual section 414-00: Battery and Charging System - General Information, Specifications).
3. Remove the cover.



4.  **CAUTION:** Before the disconnection or removal of any components, make sure the areas around the joint faces and connections are clean. Plug any open connections to prevent contamination.

Disconnect connector **C1E116B** from the Powertrain Control Module (PCM).



5. Release the clip holding the wiring harness to the bulkhead to allow extended movement of the wiring harness.



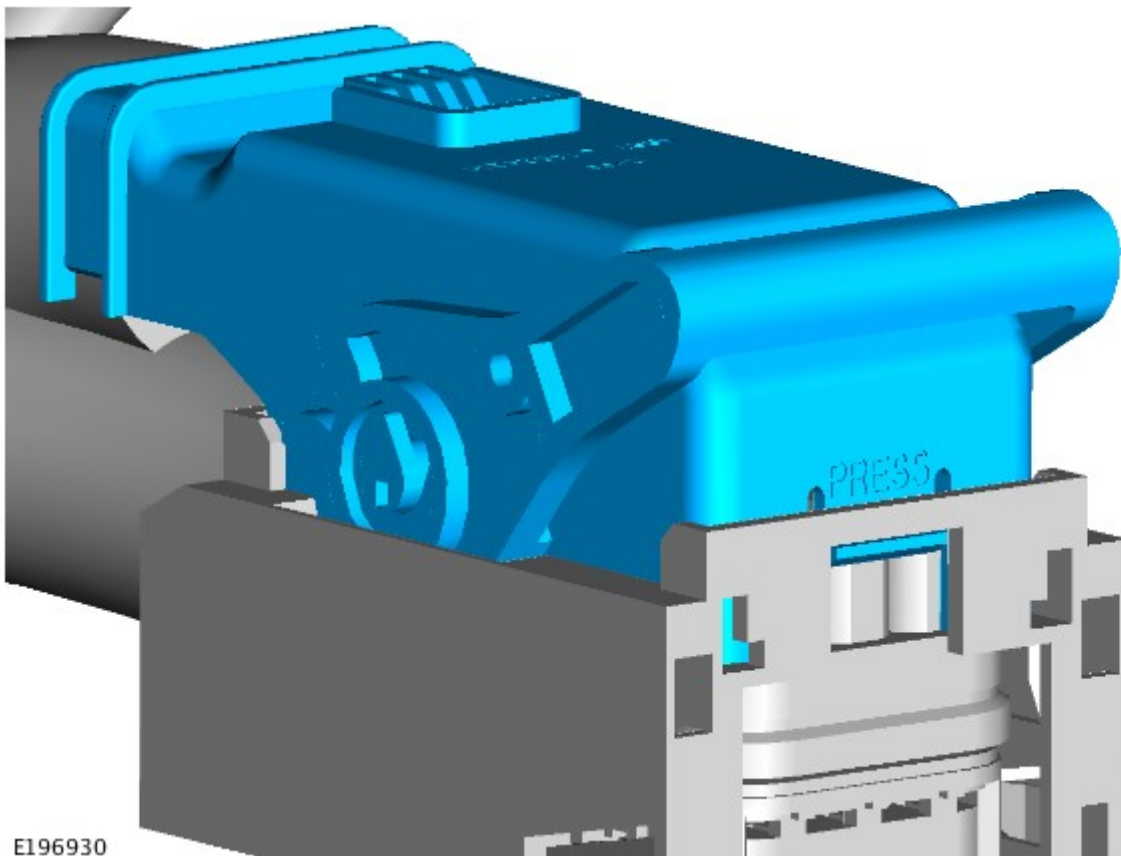
6. Cut the cable tie off the wiring harness-to-connector housing joint.

- Discard the used cable tie.



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7. Release and remove the top of the connector housing.



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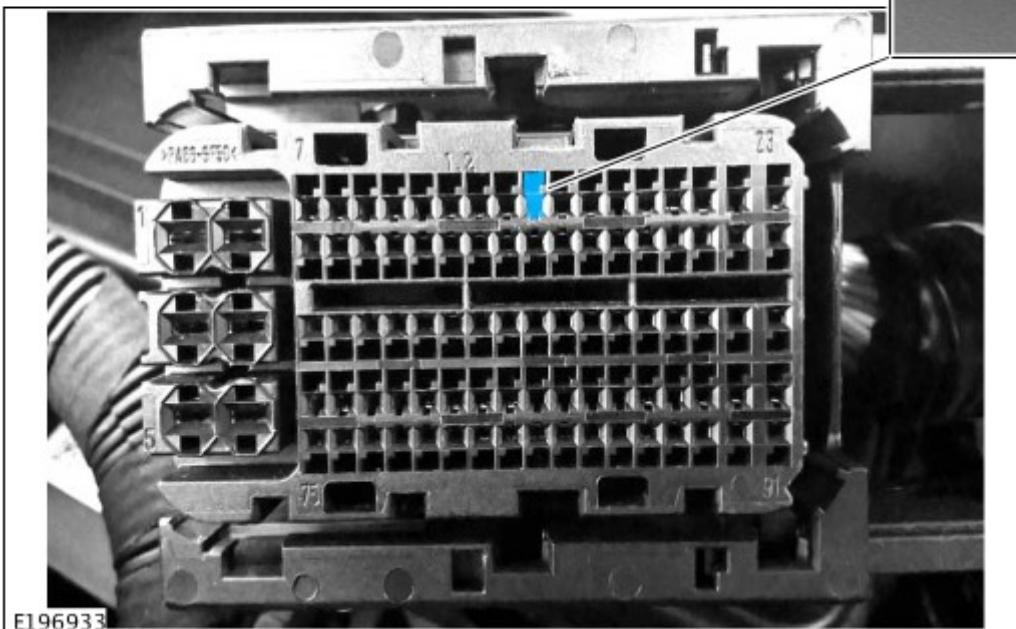
8. Using a suitable tool, release the anti-back-out shield and remove it from the connector plug.



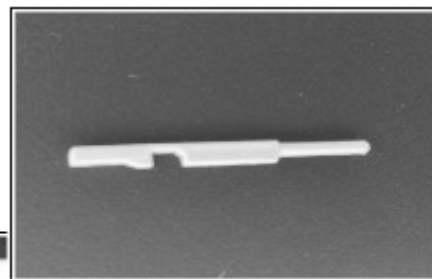
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9. Using tool JLR-418-595 from tool kit JLR-418-684, remove the plastic blank from location 15 in the connector plug.

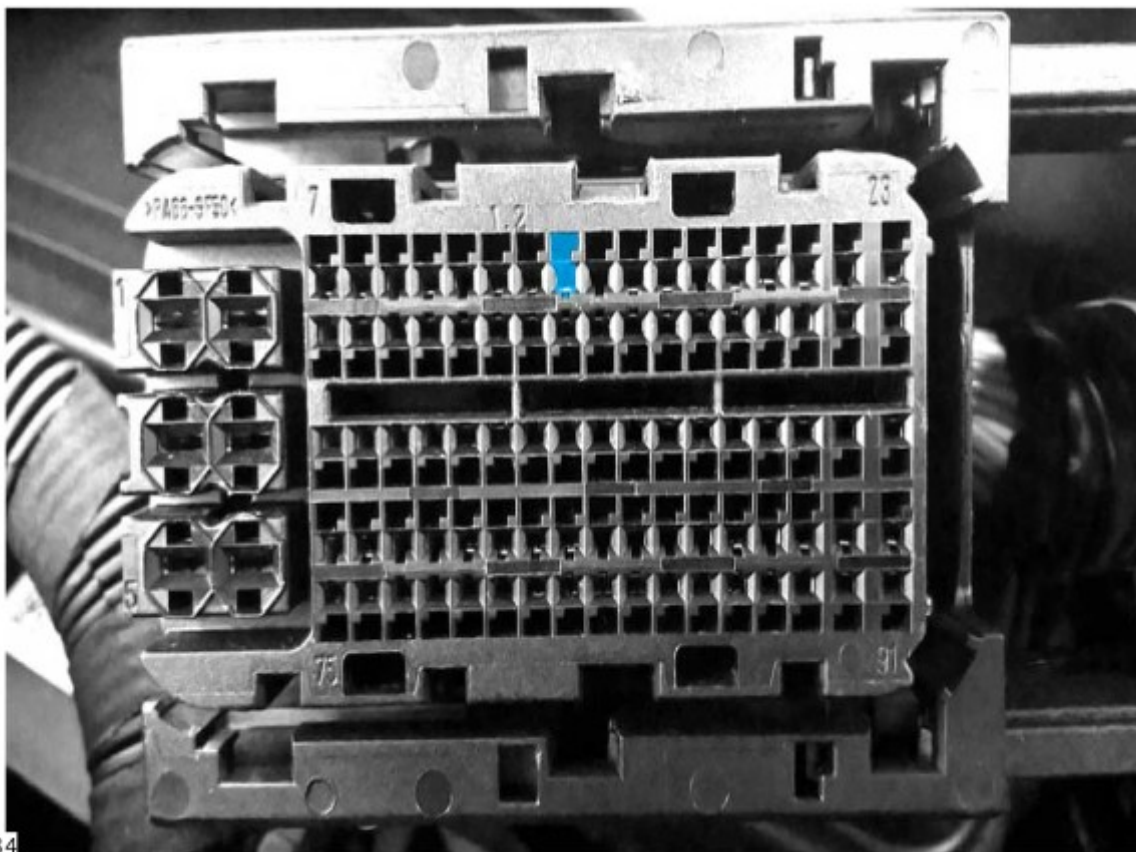


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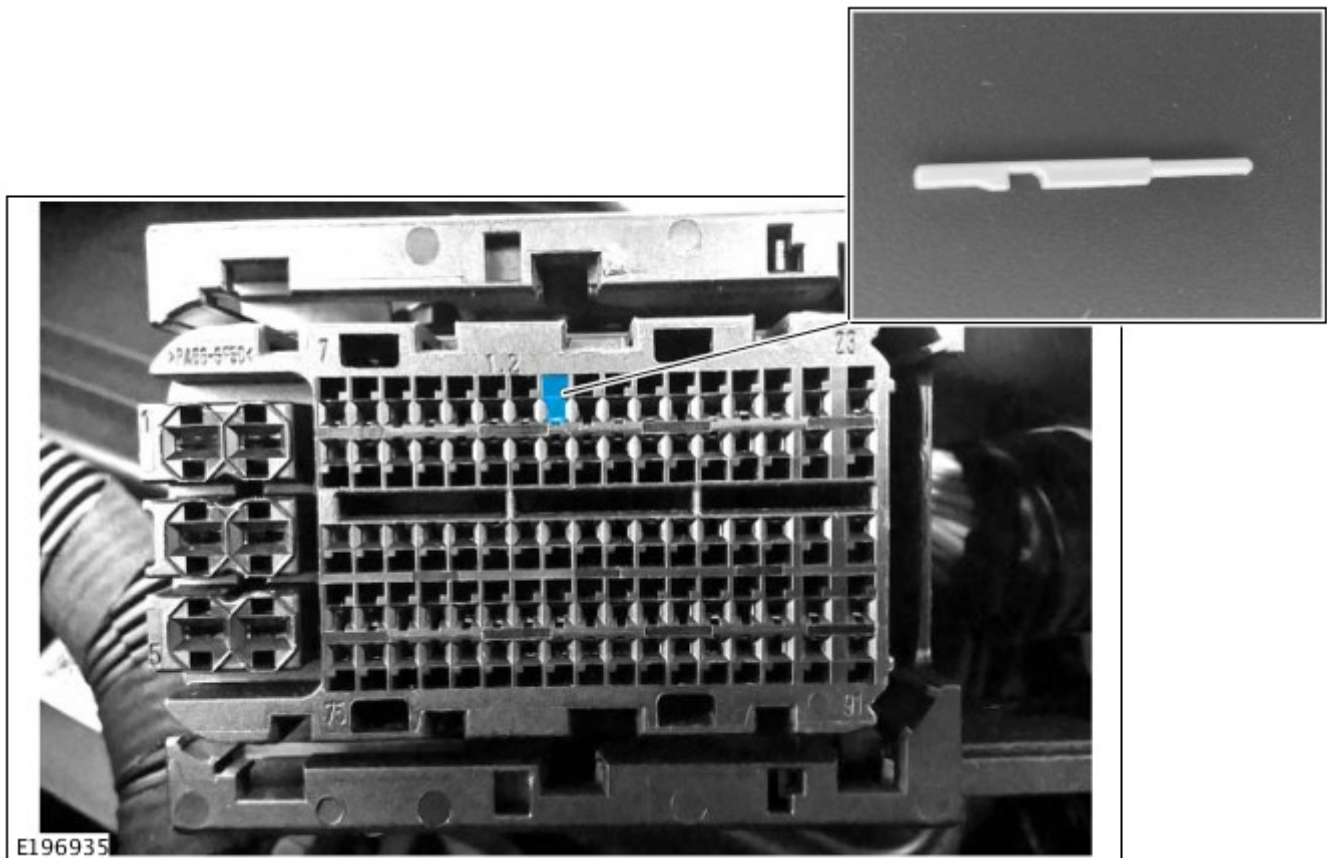
10.  **NOTE: The pin to be removed is a green/orange 0.5mm wire.**

Using tool JLR-418-595 from tool kit JLR-418-684, remove the pin from location 14.

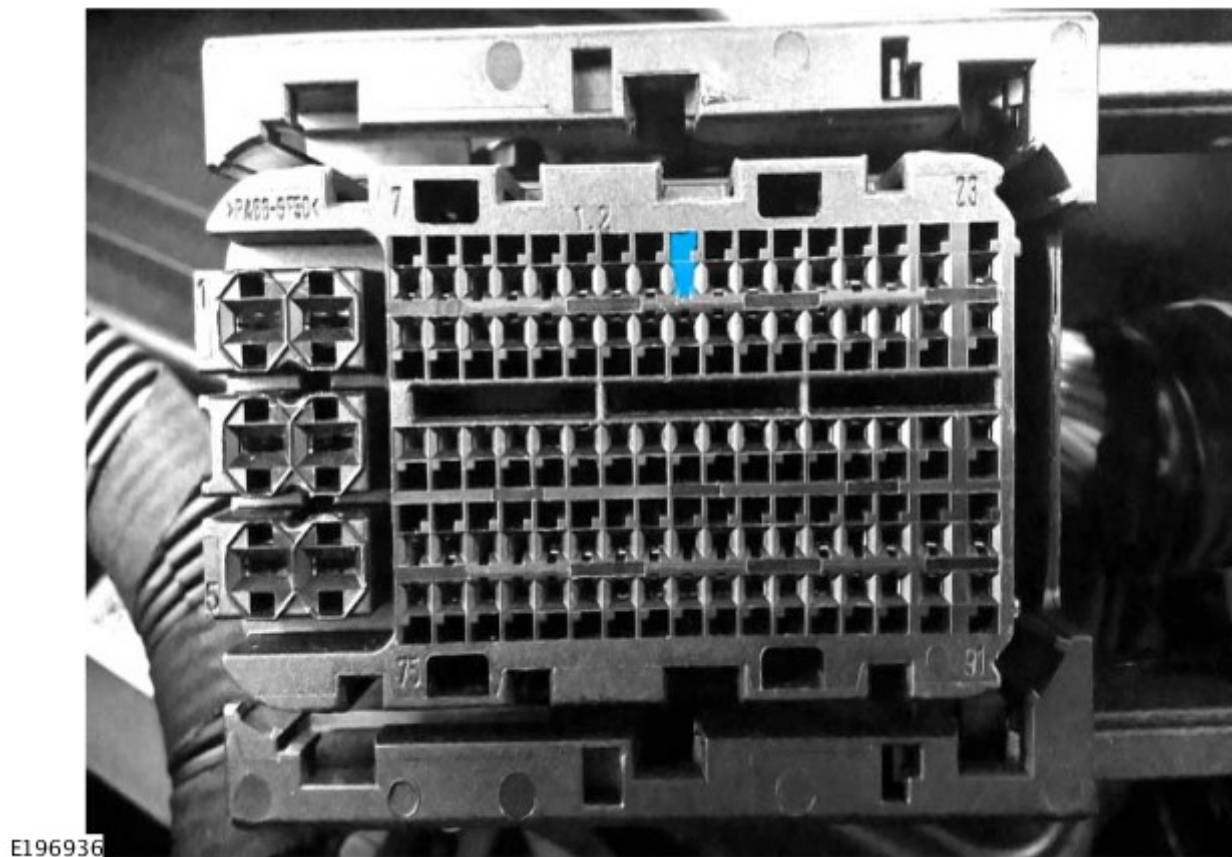


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11. Install the plastic blank into location 14 in the connector plug.



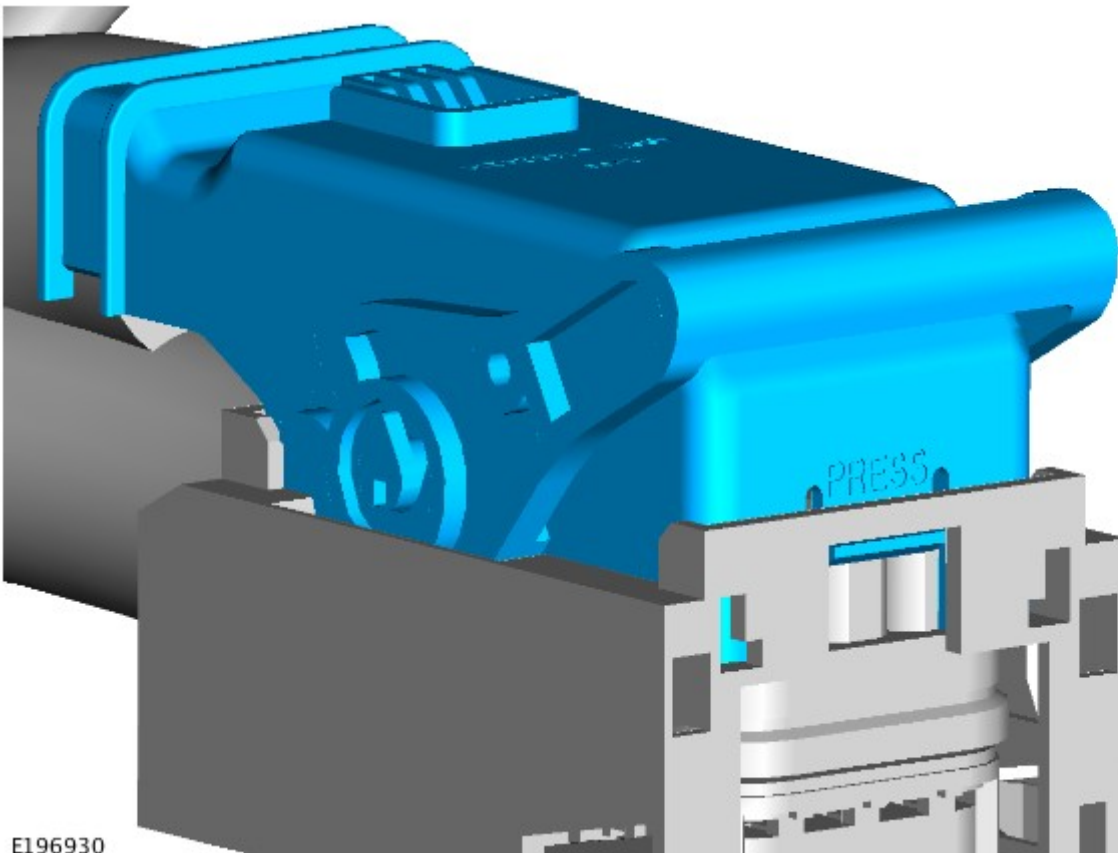
12. Install the green/orange 0.5mm wire pin into location 15 in the connector plug.



13. Install the anti-back-out shield into the connector plug.



14. Install the top cover onto the connector housing.



15. Install a new cable tie onto the joint between the wiring harness and connector housing.



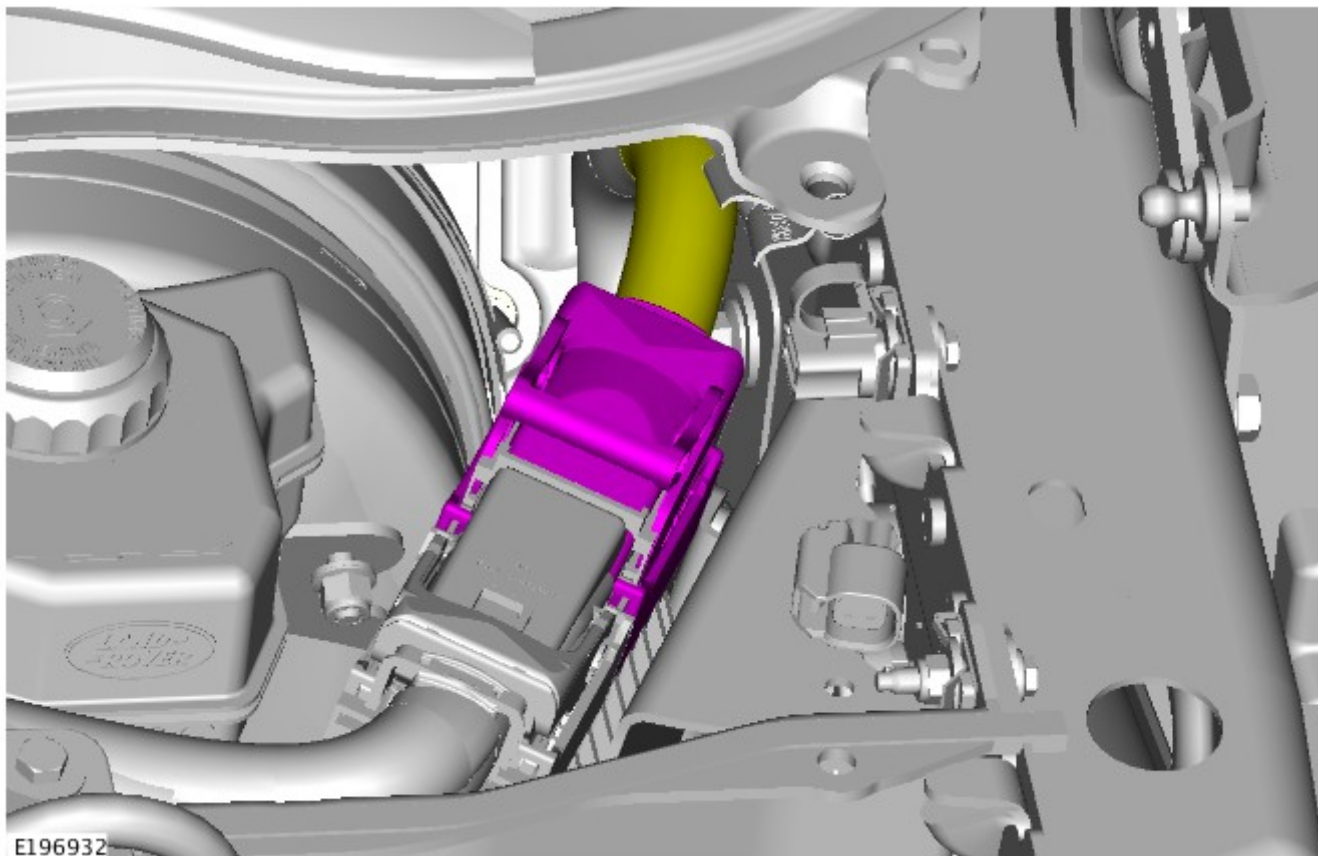
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- 16.** Install the clip to hold the wiring harness to the bulkhead.

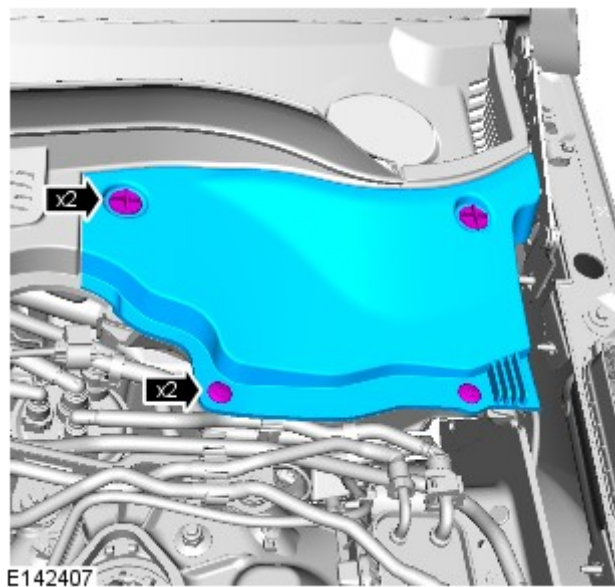


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- 17.** Install connector C1E116B into the PCM.



18. Install the cover.



19. Connect the battery (see TOPIx Workshop Manual section 414-00: Battery and Charging System - General Information, Specifications).

20. Close the hood.