

Battery, hybrid vehicle

Handling the battery



WARNING!

Lethal voltage!

Traction voltage system / 650 V (nominal value)

- Can cause serious electric shock, electric arc or burns and may result in serious personal injury or death.
- Only qualified personnel are allowed to carry out service and installation.
- Always use the correct personal protective equipment when working on the vehicle.

These instructions apply to dispatches by road of lithium batteries used in hybrid trucks and hybrid buses. The battery weighs approx. 230-270 kg.

Transport by road

Note:

Transport of worn out hybrid batteries takes place in accordance with local regulations for dangerous goods.

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Dispatch

- Mark the package with UN 3480
- It is preferable to use the same packaging that the battery was delivered in. Batteries with a durable, impact resistant outer casing with a gross weight of 12 kg or more may also be transported unpackaged on a pallet or in a pallet with a 2/4 collar. It is important that the battery cannot move.
- Issue a goods declaration.
- When ordering transport, indicate that dangerous goods are to be transported (Lithium ion batteries, class 9).
- The battery is to be sent back to the manufacturer for recycling.

Value calculated amount

It is the choice of the driver whether the transport should be dispatched according to the value calculated amount exception. If the goods are transported as value calculated amount, this must be notified on the goods declaration with an addendum.

Addendum: Transport category 2: X kilograms ($X * 3$ points)

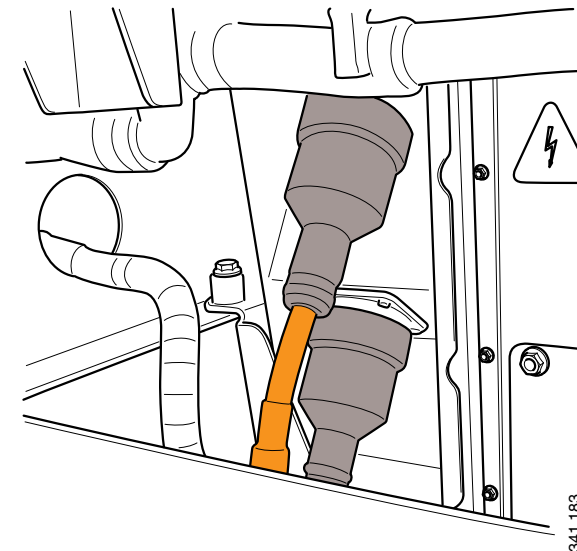
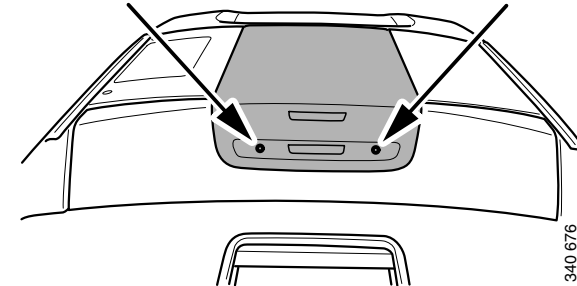
X points derives from the weight of the battery multiplied by 3, which gives the number of points.

Only one hybrid battery may be sent at a time as value calculated amount if the battery weighs more than 166 kg and the maximum battery weight is 333 kg.

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Removal

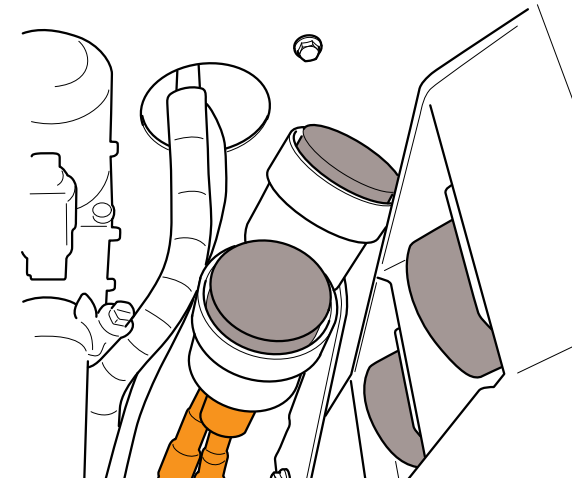
1. Perform the steps in Before all workshop operations; see Procedures for all workshop operations on hybrid vehicles.
2. Undo the screws and remove the cover from over the battery.
3. Drain the battery coolant circuit.
4. Detach the class B voltage connections.



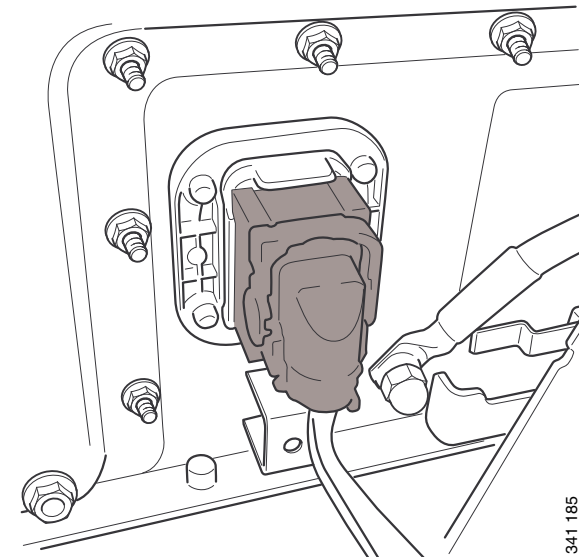
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Removal

5. Plug the class B voltage connections.



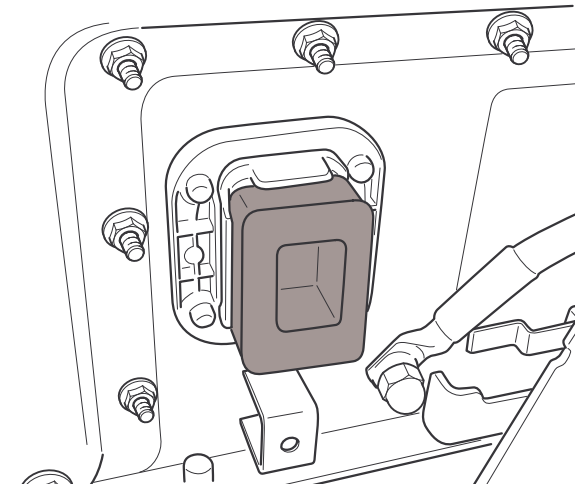
6. Detach the signal connection.



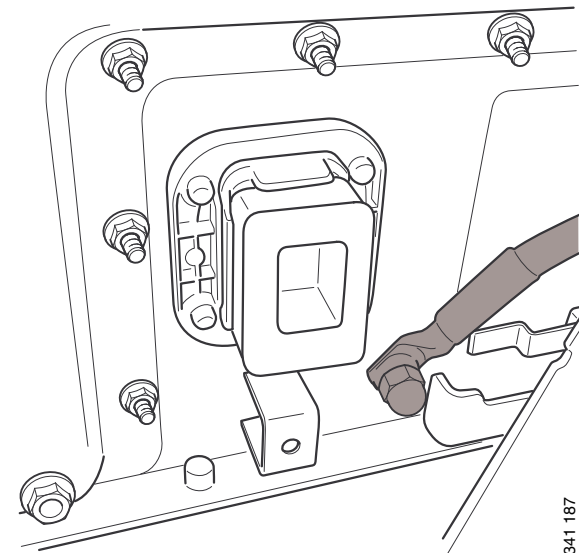
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7. Plug the signal connection.



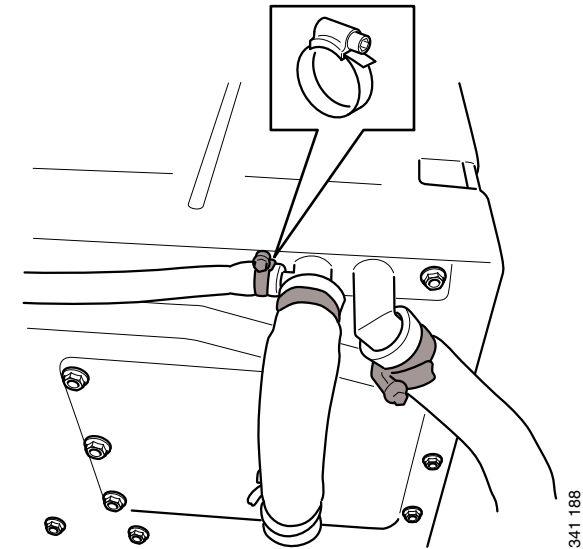
8. Detach the ground connection.



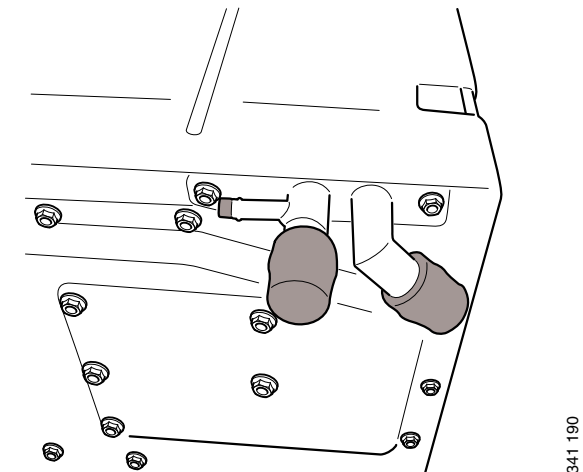
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9. Detach the coolant hoses from the battery.

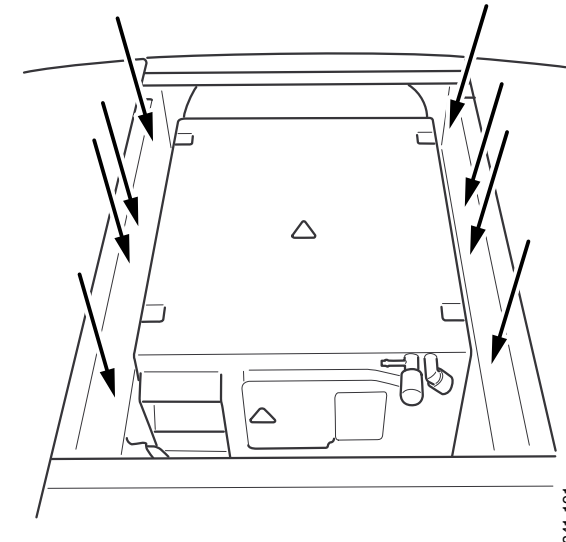
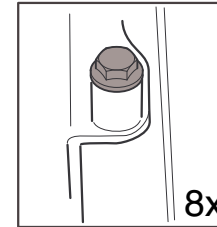


10. Plug the coolant connections.



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11. Remove the screws securing the battery.

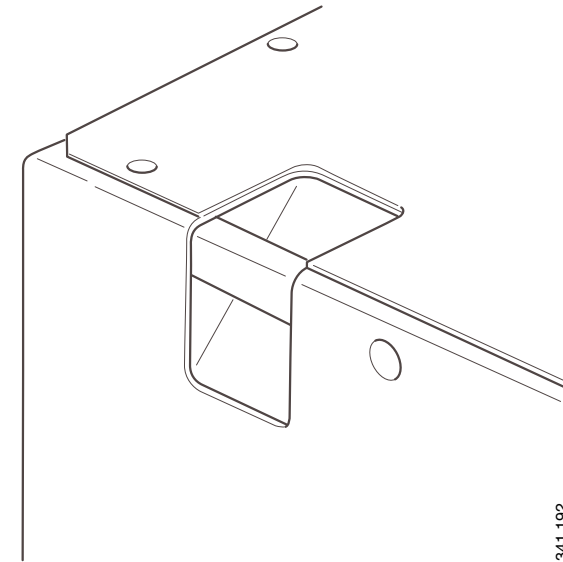


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Removal

12. Attach lifting straps to the lifting points.



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13. Lift away the battery using an overhead hoist.

