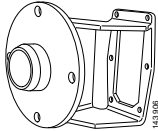
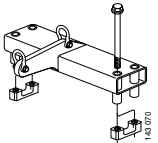


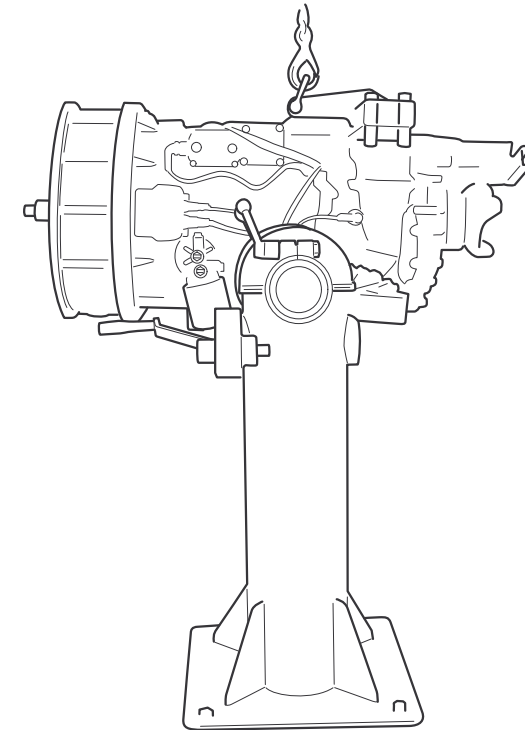
Electric machine, hybrid vehicle

Removal

Tools:

Number	Designation	Illustration
2 254 345	Counterhold	
99 545	Fixture	
99 546	Lifting accessory	

1. Perform the steps in Before all workshop operations; see Procedures for all workshop operations on hybrid vehicles.
2. Remove the gearbox with the electric machine from the vehicle, see the method for removing and fitting E-GRS895.
3. Lift the gearbox with overhead hoist and lifting tool 99 546 and place it in a universal stand with fixture 99 545.

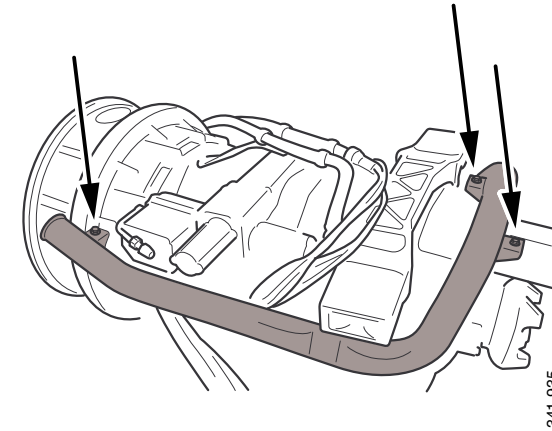


Fixture

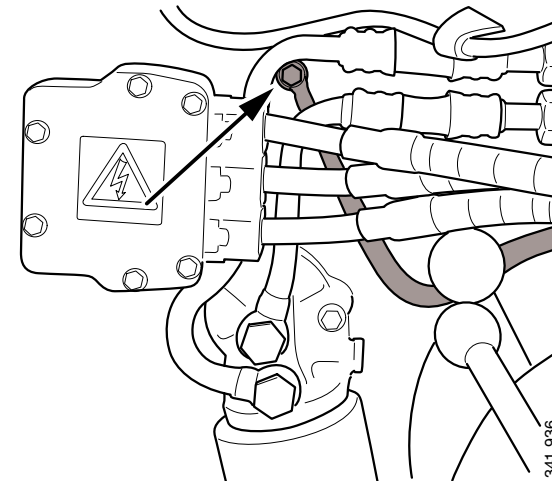
341 934

Electric machine, hybrid vehicle

4. Remove the coolant pipe.

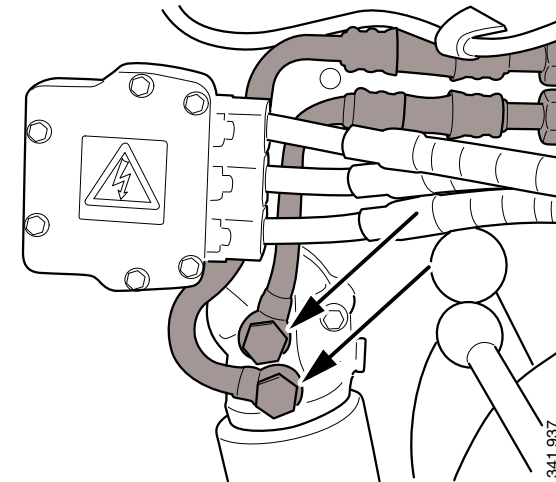


5. Remove the ground connection.

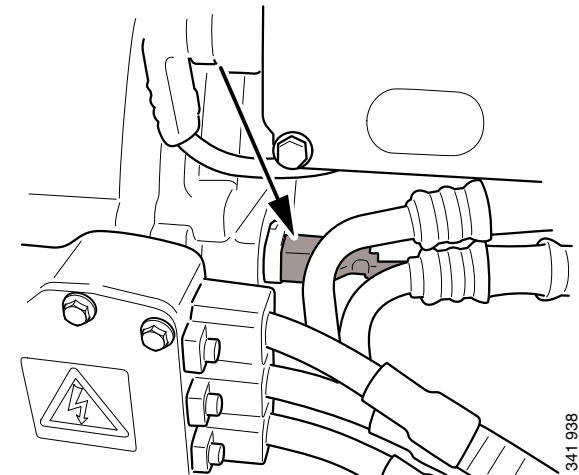


Electric machine, hybrid vehicle

6. Remove the banjo screws so that the oil hoses can be moved for improved access.

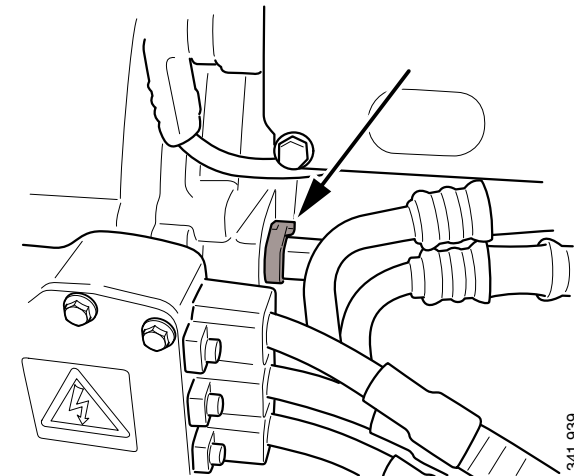


7. Detach the cable harness from the temperature sensor connection.

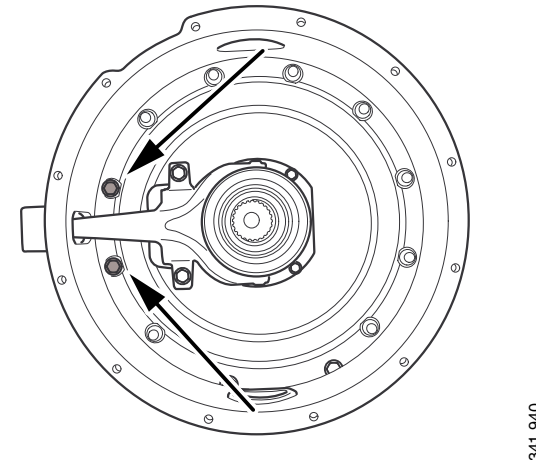


Electric machine, hybrid vehicle

8. Remove the clamp that holds the temperature sensor connection.

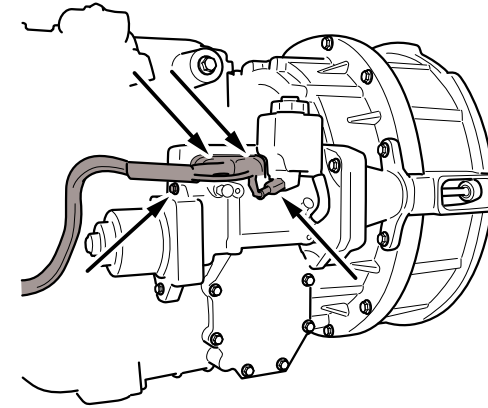


9. Remove the 2 screws that hold the electrical clutch actuator.



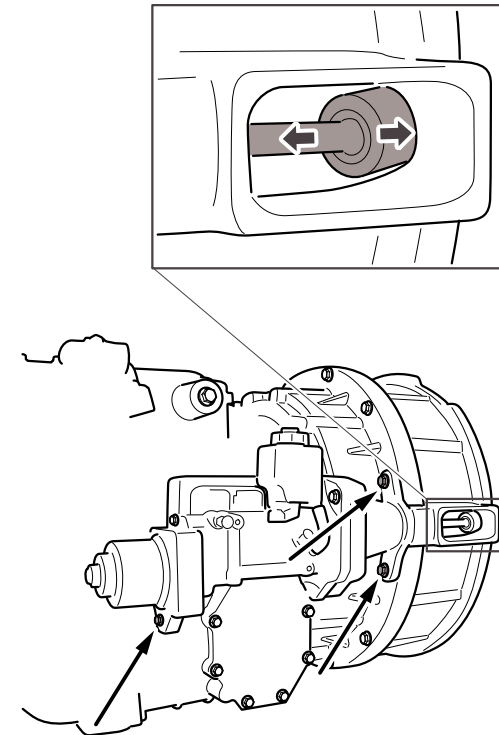
Electric machine, hybrid vehicle

10. Disconnect the connectors and the bracket for the cable harness.



341 941

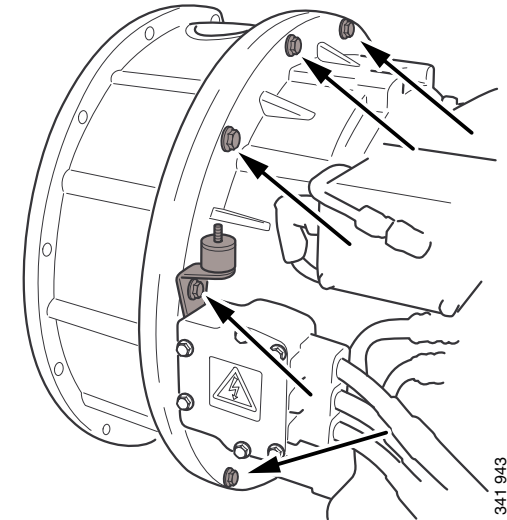
11. Remove the screws securing the clutch actuator, lift off the clutch actuator and detach it from the coupling fork.



341 941

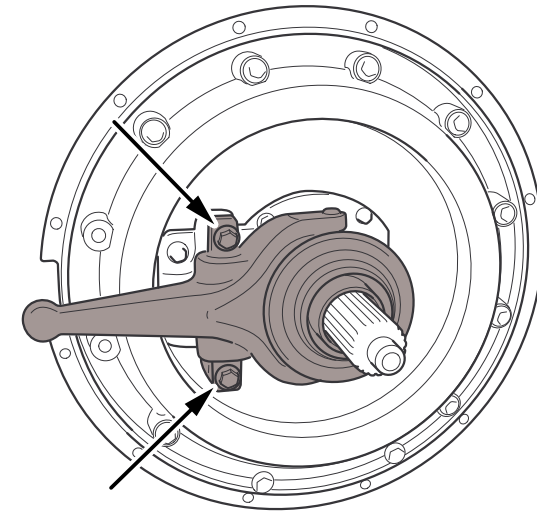
Electric machine, hybrid vehicle

12. Remove the clutch housing with the coolant pipe bracket from the electric machine.



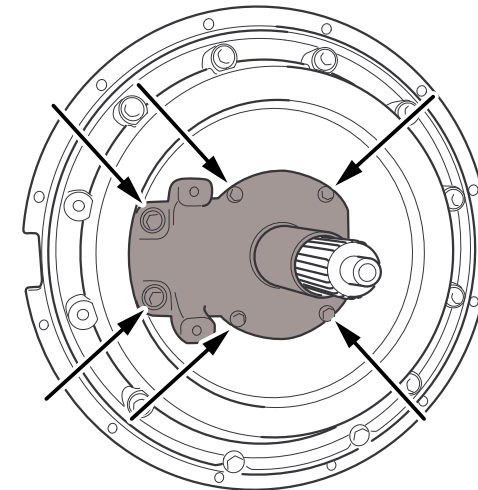
Electric machine, hybrid vehicle

13. Remove the lever and release bearing.



341 944

14. Remove the lever bracket from the electric machine.

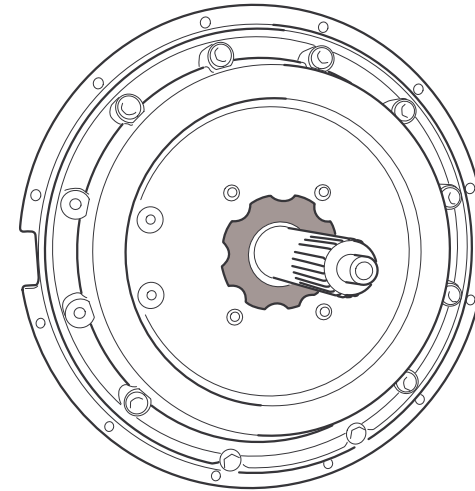


341 945

Electric machine, hybrid vehicle

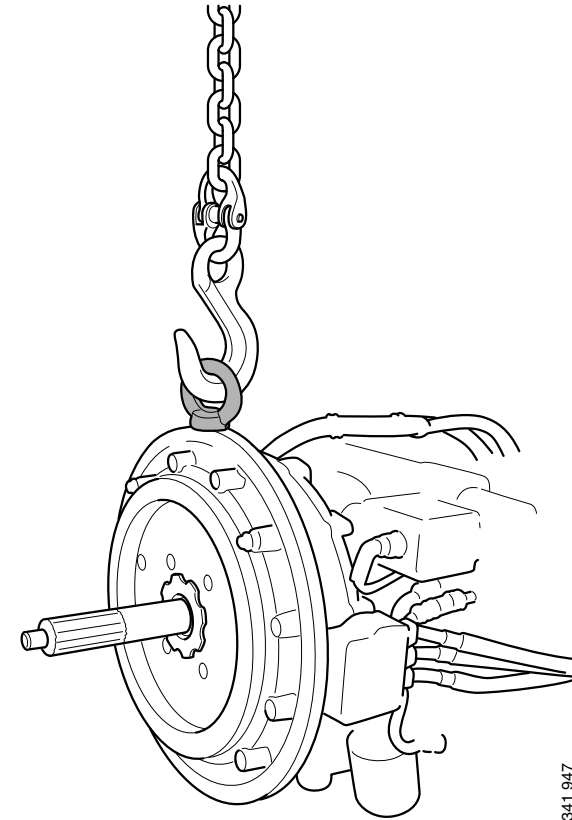
Removal

15. Fix the rotor of the electric machine with tool 2 254 345.



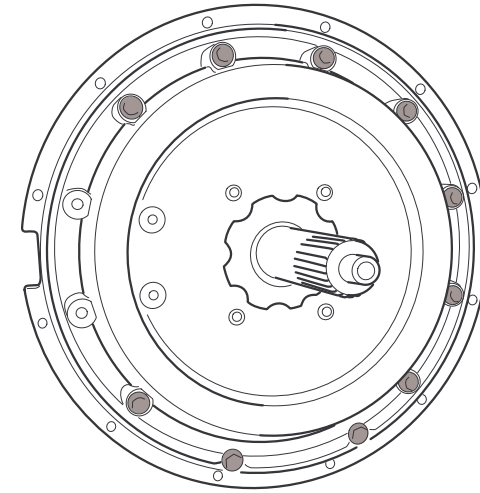
341 946

16. Screw onto a lifting eye in the electric machine and lift with overhead hoist until the weight rests on the electric machine instead of the gearbox.



Electric machine, hybrid vehicle

17. Remove the screws holding the electric machine.



341 948

Electric machine, hybrid vehicle

18. Detach the electric machine from the gearbox and check that the temperature sensor connection comes out as well.
19. Lift off the electric machine with the overhead hoist.

