

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

Volvo V60 2023 Manual - Workshop Service and Repair Guide

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NOTE: Make sure that the selector lever is in the neutral (N) position.

There are two different ways to activate a rolling brake test:

- Automatic activation: Activate (pull and hold) the parking brake switch. Brake control module activates the parking brake until a minimum required brake force is reached. The brake force then starts to increase automatically every third seconds in four steps.
- Manual activation: Activate (pull) the parking brake switch once. The brake control module activates the parking brake until the minimum required brake force is reached. At repeated activation of the parking brake, the brake force increases in four steps.

Note! In case of error codes (DTC) it is not possible to perform the test.

Note! If the conditions for the rolling brake test are not met, the parking brake is normally activated.

Sample

PARKING BRAKE SWITCH MODULE > PARKING BRAKE SWITCH MODULE (3/272) [2018-2020 | 2021-2022, B4204T18; B4204T47] > DESCRIPTION

The parking brake switch module contains buttons to control the electronic parking brake and its behavior.

The parking brake switch module consists of an electronic parking brake switch, which can be pushed or pulled. It also has an auto hold button with a status illumination LED.

PARKING BRAKE SWITCH MODULE > PARKING BRAKE SWITCH MODULE (3/272) [2018-2020 | 2021-2022, B4204T18; B4204T47] > DIAGNOSTIC INFORMATION

The parking brake switch module does not have a built-in diagnostic system. The Vehicle Dynamics Domain Master (VDDM) monitors the module and sets DTCs and readable parameters.

PARKING BRAKE SWITCH MODULE > PARKING BRAKE SWITCH MODULE (3/272) [2018-2020 | 2021-2022, B4204T18; B4204T47] > CONNECTION AND COMMUNICATION

The electronic parking brake switch and the auto hold button are directly connected to the Vehicle Dynamics Domain Master (VDDM).

The voltage of the auto hold status illumination LED is supplied by the Central Electronic Module (CEM).

BRAKE CALIPER MOTOR, PARKING BRAKE > BRAKE CALIPER MOTOR, PARKING BRAKE (6/146 - 6/147) [2018-2022] > DESCRIPTION

The brake caliper motors, parking brake, activate the electric parking brakes.

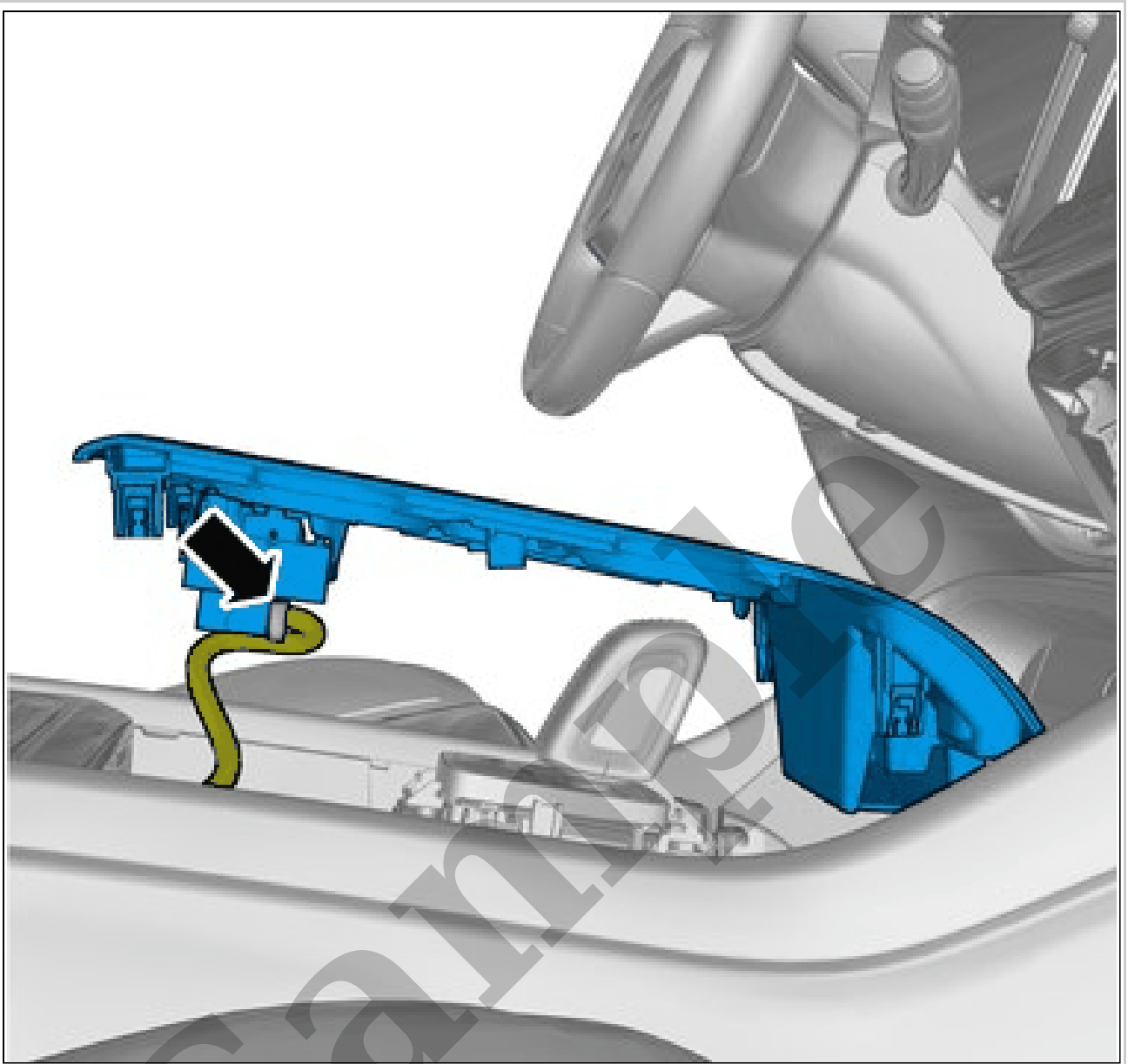
The electric motor produces a torque that is converted into compressive force via a spindle. The spindle is fitted in the brake piston and presses on it so that the brake pads are applied. When the current to the electric motor is disconnected, the self-locking thread on the shaft maintains the brake pressure. When the electric parking brake is released, the spindle is threaded back and the piston pressure releases.

BRAKE CALIPER MOTOR, PARKING BRAKE > BRAKE CALIPER MOTOR, PARKING BRAKE (6/146 - 6/147) [2018-2022] > DIAGNOSTIC INFORMATION

The brake caliper motors, parking brake, do not have a built-in diagnostic system. The Vehicle Dynamics Domain Master (VDDM) / Brake Control Module 2 (BCM2) monitors the motors and sets DTCs and readable parameters.

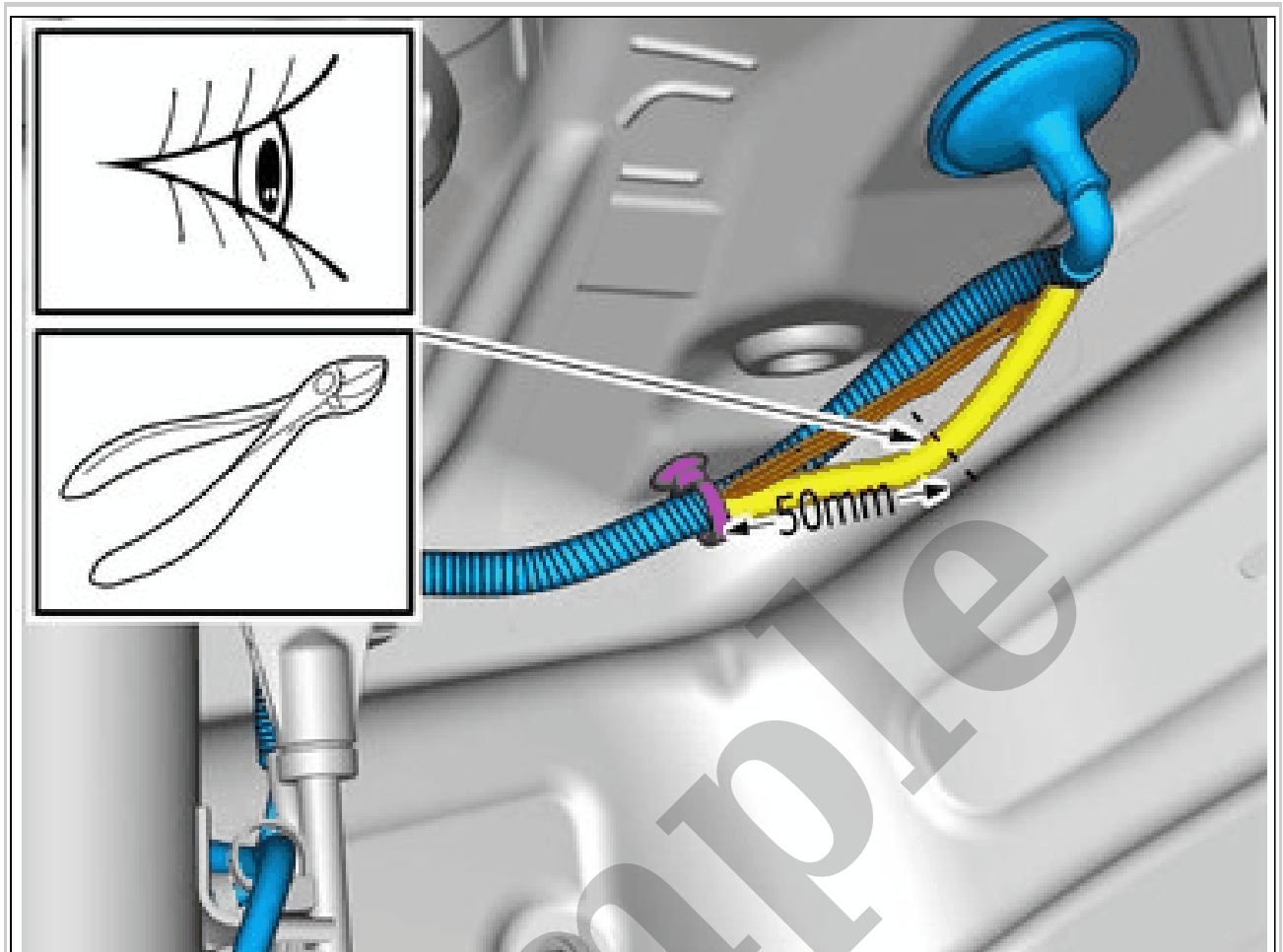
BRAKE CALIPER MOTOR, PARKING BRAKE > BRAKE CALIPER MOTOR, PARKING BRAKE (6/146 - 6/147) [2018-2022] > CONNECTION AND COMMUNICATION

The brake caliper motors, parking brake, are directly connected to the Vehicle Dynamics Domain Master (VDDM) / Brake Control Module 2 (BCM2).



Courtesy of VOLVO CARS CORPORATION

Disconnect the connector.
Remove the marked part.

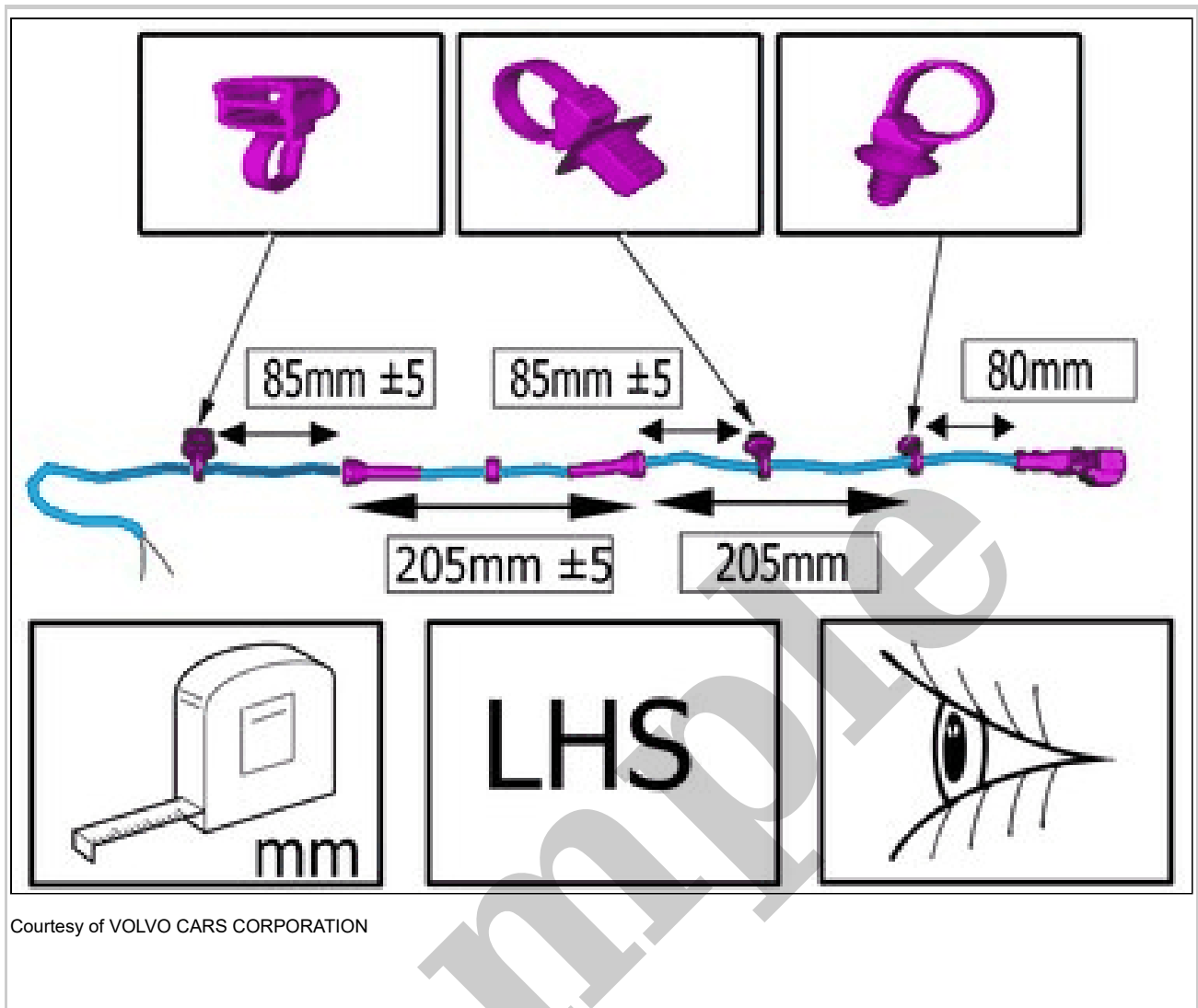


Courtesy of VOLVO CARS CORPORATION

CAUTION: *Ensure that the cable/cables are not damaged.*

Cut following the dotted lines.

Use: Cutting pliers



Courtesy of VOLVO CARS CORPORATION

NOTE: Make sure that a new component is installed.

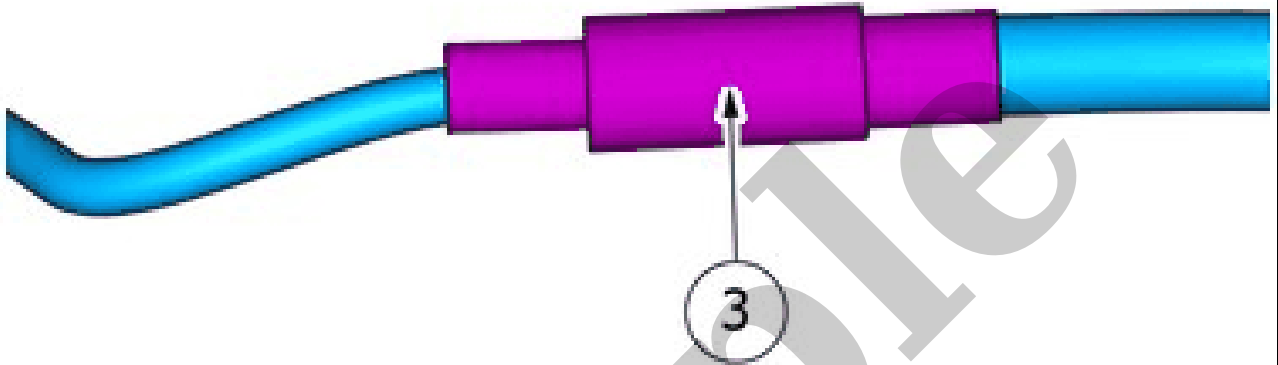
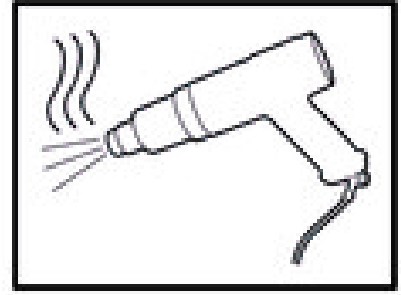
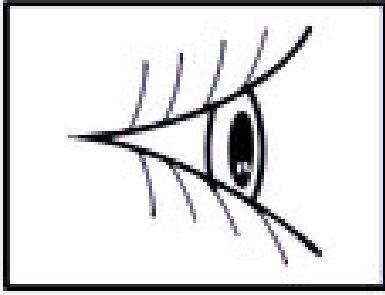
1. Measure distance from rubber fixation to clips.

2. Adjust to the specified value.

Use: Tape measure

REPAIR

See information about splicing cables. Refer to: JOINING CABLES

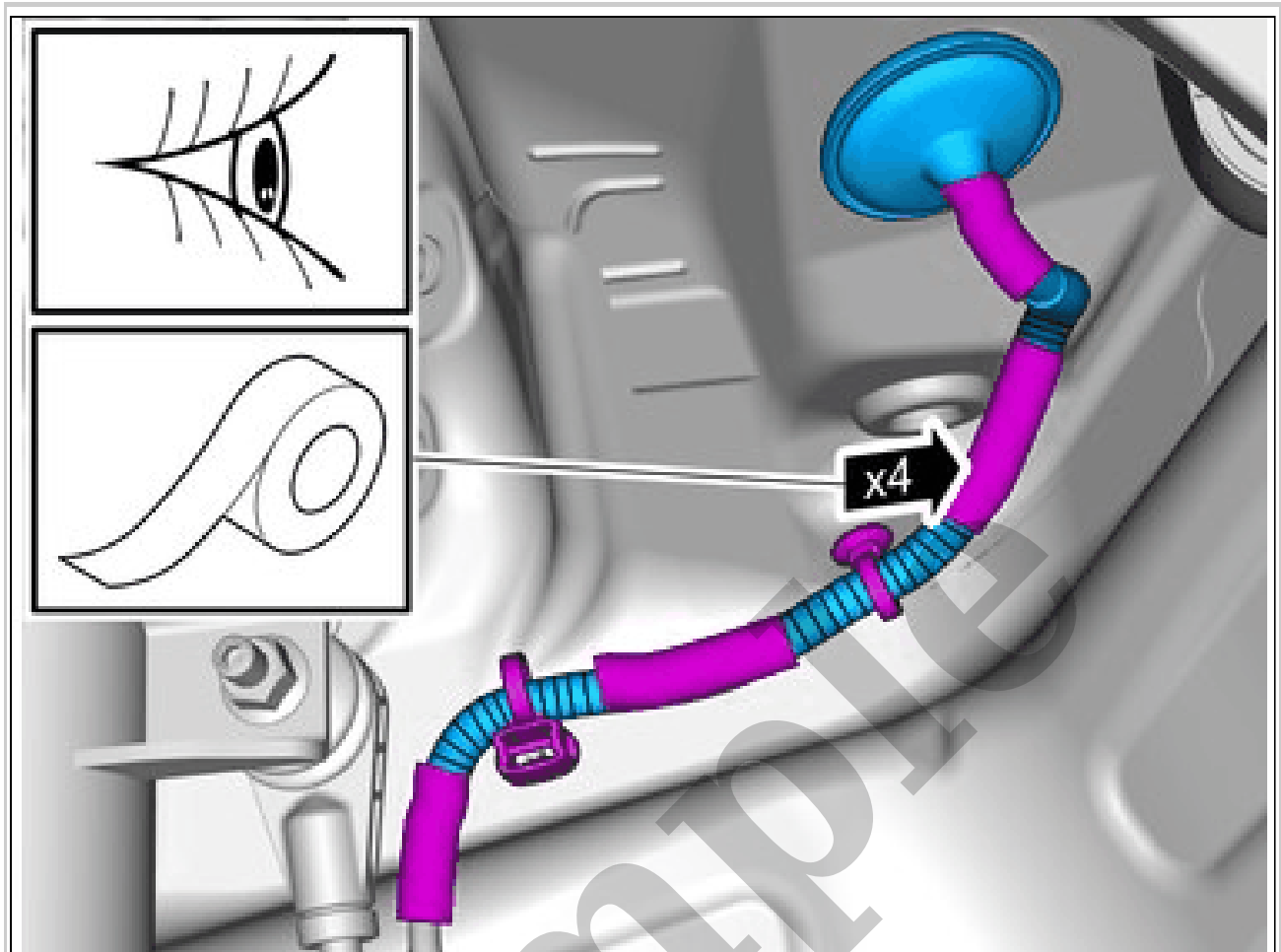


Courtesy of VOLVO CARS CORPORATION

Use: heat-shrinkable tubing, 976422

Use: Hot-air gun

INSTALLATION



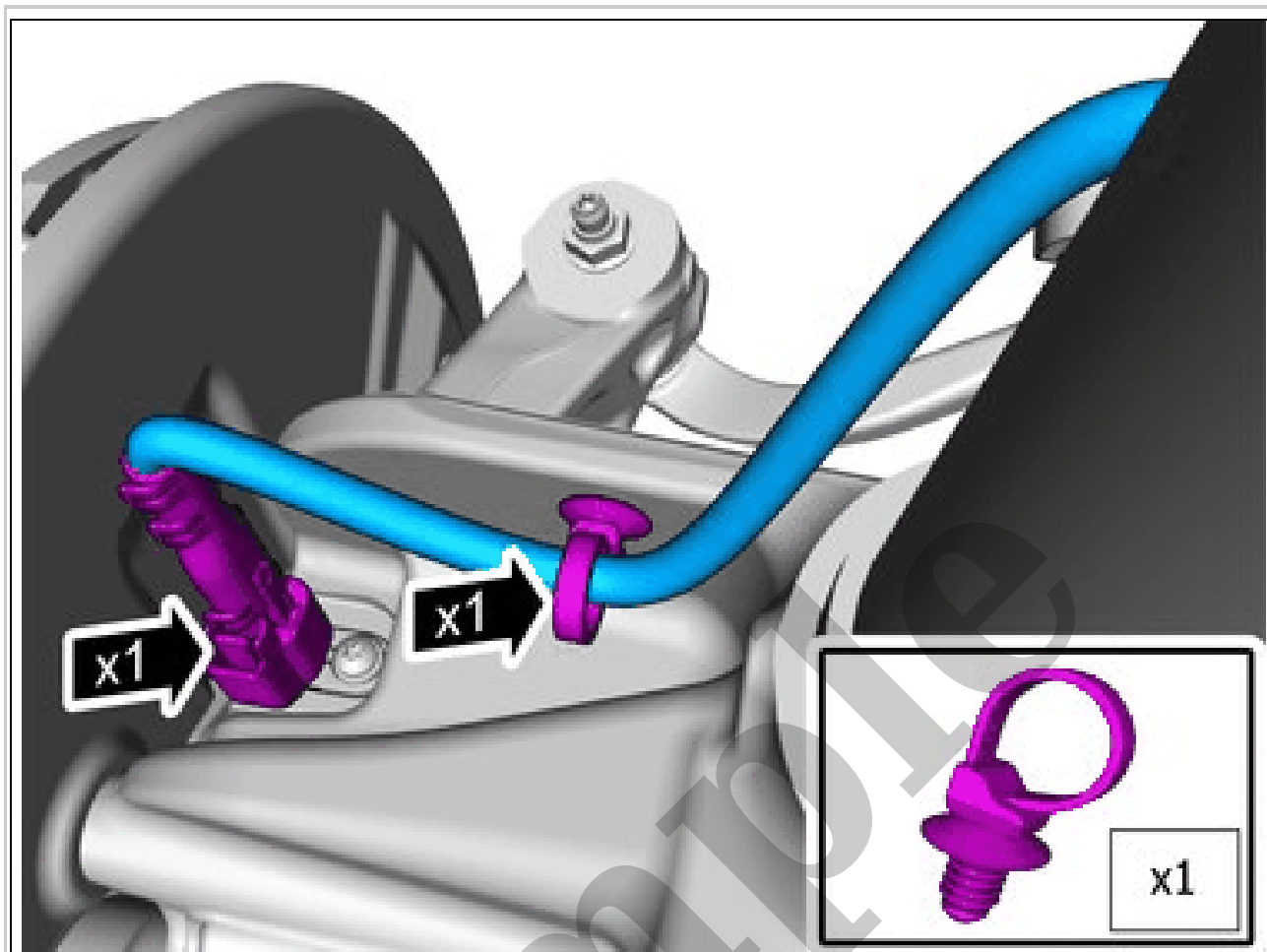
Courtesy of VOLVO CARS CORPORATION

Attach the insulation tape around the cable, as shown.

Use: Electrical tape, 9511028

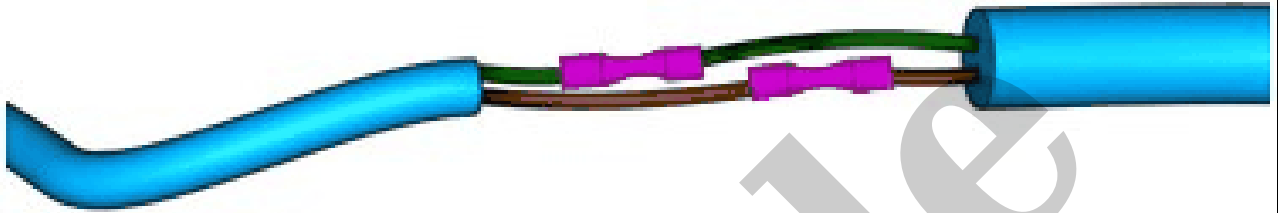
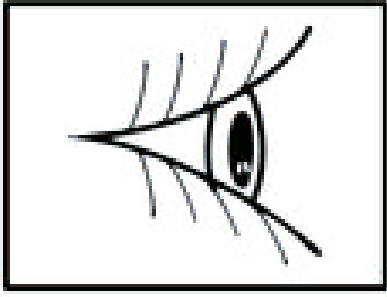
Reinstall the removed parts in reverse order.

APPLIES TO THE RIGHT-HAND SIDE



Courtesy of VOLVO CARS CORPORATION

Remove the cable harness clips.
Disconnect the connector.



Courtesy of VOLVO CARS CORPORATION

Install the marked components.
Use: Splice, 9130467