

Horn -**Torque Specifications**

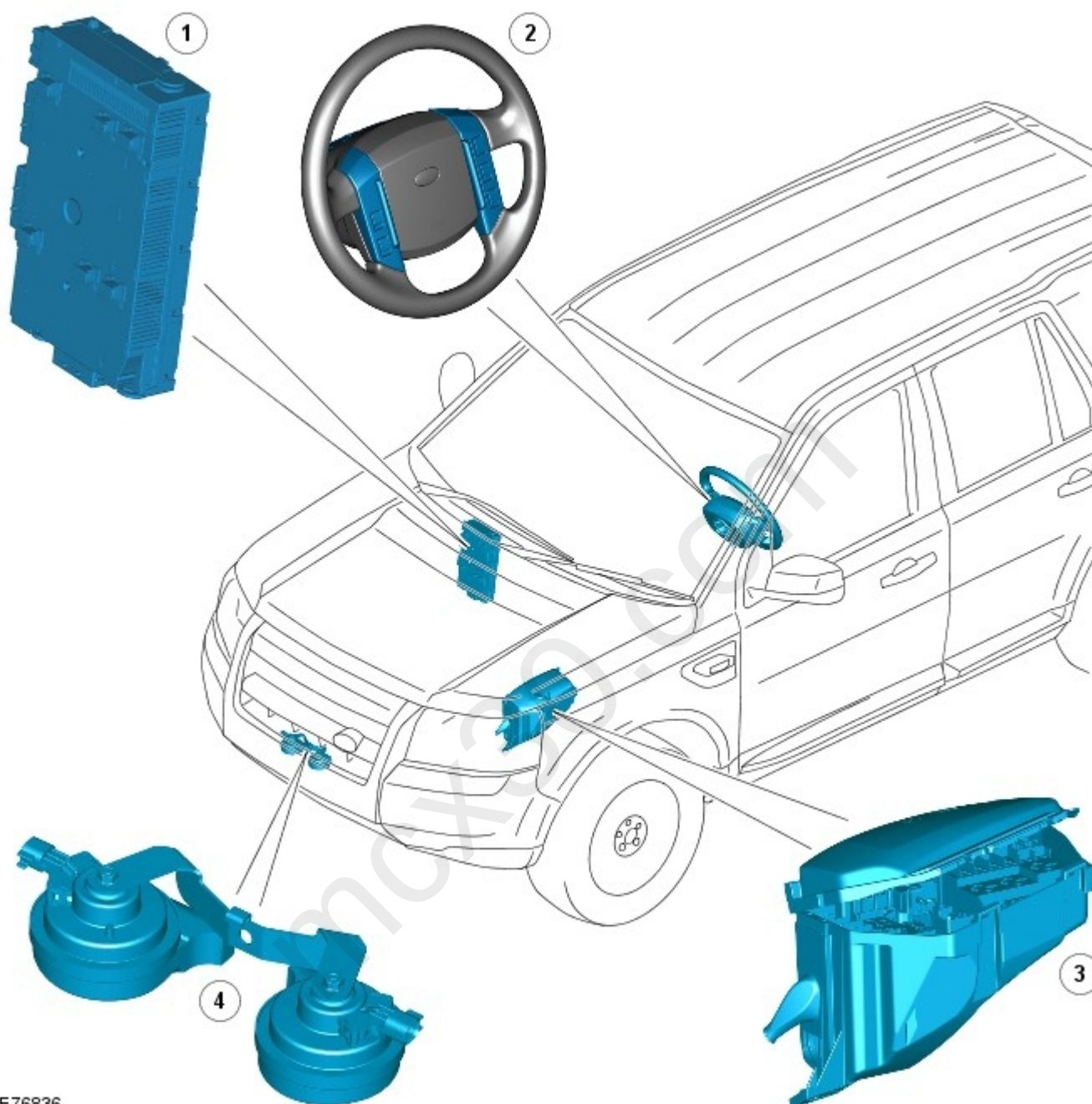
Description	Nm	lb-ft
Horn bracket	25	18
Horn nut	10	7

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Horn - Horn

Description and Operation

COMPONENT LOCATION



E76836

Item	Part Number	Description
1	-	Central Junction Box (CJB)
2	-	Horn switches
3	-	Relay R10 (Battery Junction Box (BJB))
4	-	Horns

OVERVIEW

The vehicle horns are operated by pressing either of the vertical bars mounted on the steering wheel. Horn switch status is monitored by the CJB via the steering wheel module. When either of the switches is pressed the CJB energizes the horn relay (relay R10), which is located within the BJB. The energized horn relay provides a battery feed to the 2 vehicle horns. Both horns are mounted on brackets and secured to the center of the front cross member, forward of the radiator.

The vehicle horns will also sound if the anti-theft alarm system is activated. If this occurs, operation of the vehicle horns is controlled automatically by the CJB.

For additional information, refer to: [Anti-Theft - Active](#) (419-01A Anti-Theft - Active, Description and Operation).

Horn - Horn

Diagnosis and Testing

Principles of Operation

For a detailed description of the horn system, refer to the relevant Description and Operation section in the workshop manual.

REFER to: [Horn](#) (413-06 Horn, Description and Operation).

Inspection and Verification



CAUTION: Diagnosis by substitution from a donor vehicle is **NOT** acceptable. Substitution of control modules does not guarantee confirmation of a fault, and may also cause additional faults in the vehicle being tested and/or the donor vehicle.

1. **1.** Verify the customer concern.
2. **2.** Visually inspect for obvious signs of mechanical or electrical damage.

Visual Inspection

Mechanical	Electrical
● Horn switches ● Clock spring/steering angle sensor ● Horns	● Fuses/relays (refer to electrical guide) ● Wiring harness ● Correct engagement of electrical connectors ● Loose or corroded connections ● Central Junction Box (CJB) ● Battery Junction Box (BJB)

3. **3.** If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step.
4. **4.** If the cause is not visually evident, check CJB for Diagnostic Trouble Codes (DTCs) and refer to the DTC Index.

DTC Index

• **NOTE:** If the control module or a component is suspect and the vehicle remains under manufacturer warranty, refer to the Warranty Policy and Procedures manual (section B1.2), or determine if any prior approval programme is in operation, prior to the installation of a new module/component.

• **NOTE:** Generic scan tools may not read the codes listed, or may read only five digit codes. Match the five digits from the scan tool to the first five digits of the seven digit code listed to identify the fault (the last two digits give extra information read by the manufacturer-approved diagnostic system).

• **NOTE:** When performing voltage or resistance tests, always use a digital multimeter (DMM) accurate to three decimal places and with a current calibration certificate. When testing resistance, always take the resistance of the DMM leads into account.

• **NOTE:** Check and rectify basic faults before beginning diagnostic routines involving pinpoint tests.

• **NOTE:** If DTCs are recorded and, after performing the pinpoint tests, a fault is not present, an intermittent concern may be the cause. Always check for loose connections and corroded terminals.

DTC	Description	Possible Cause	Action
B1C5512	Horn Relay Coil Circuit - circuit short to power	● Horn relay control circuit - short to power	Refer to electrical circuit diagrams and check horn relay control circuit for short to power
B1C5514	Horn Relay Coil Circuit- circuit short to ground or open	● Horn relay control circuit - short to ground, open circuit	Refer to electrical circuit diagrams and check horn relay control circuit for short to ground, open circuit
U012600	Lost Communication With Steering Angle Sensor Module	● Lost communication with steering angle sensor	Carry out the associated network test for this DTC using the manufacturer approved diagnostic system

Horn - Horn

Removal and Installation

Removal

1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

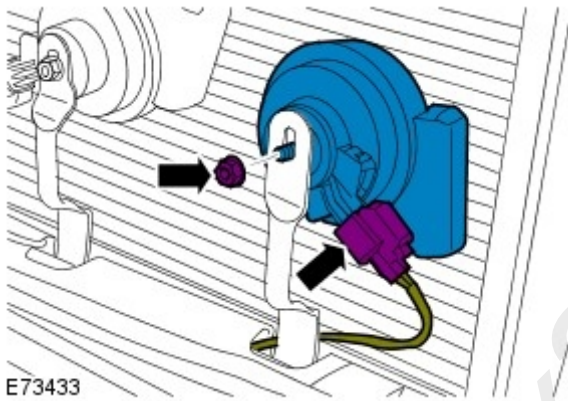
Raise and support the vehicle.

2. Remove the front wheels and tires.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

3. Remove the front bumper cover.

Refer to: [Front Bumper Cover](#) (501-19 Bumpers, Removal and Installation).



- 4.

- Torque: 10 Nm

Installation

1. To install, reverse the removal procedure.

Horn - Horn Switch

Removal and Installation

Removal

1. Disconnect the battery ground cable.

Refer to: [Specifications](#) (414-00 Battery and Charging System - General Information, Specifications).

2. Make the SRS system safe.

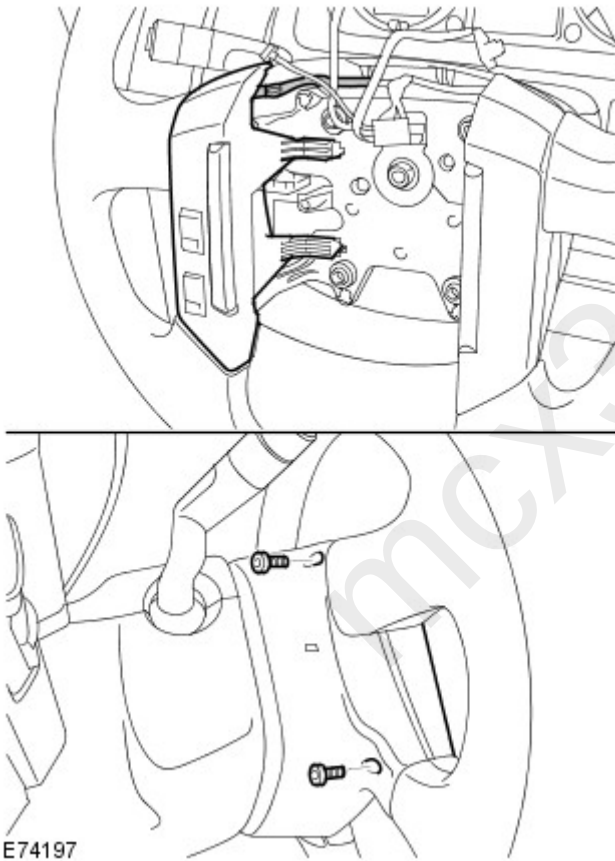
Refer to: [Standard Workshop Practices](#) (100-00 General Information, Description and Operation).

3. Remove the driver air bag module.

Refer to: [Driver Air Bag Module](#) (501-20B Supplemental Restraint System, Removal and Installation).

- 4.

- Remove the 2 Torx screws.
- Disconnect the electrical connector.



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Installation

1. To install, reverse the removal procedure.