

Rear View Mirrors -**Torque Specifications**

Description	Nm	lb-ft
Exterior mirror bolts	6	4

Rear View Mirrors - Rear View Mirrors

Diagnosis and Testing

Principle of Operation

For a detailed description of the rear view mirror systems and operation, refer to the relevant Description and Operation section of the workshop manual. REFER to: Rear View Mirrors (501-09 Rear View Mirrors, 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 checked and/or the donor vehicle.

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

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

Visual Inspection

Mechanical	Electrical
• Door mirror switch condition and installation • Door mirror condition and installation	• Battery condition and state of charge • Fuses • Harnesses and connectors • Washer jet and mirror heater relay • Memory control module(s) • Door mirror switch(s) • Door mirror motor(s) • Ignition switch • Battery Junction Box (BJB) • Central Junction Box (CJB) • Automatic Temperature Control (ATCM) module • Local Interconnect Network (LIN) circuit

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. If the cause is not visually evident, verify the symptom and refer to the Symptom Chart, alternatively check for Diagnostic Trouble Codes (DTCs) and refer to the DTC Index.

Symptom Chart

Symptom	Possible Causes	Action
Mirrors do not defrost/washer jets freeze	• Fuse fault • Washer jet and mirror heater relay fault • Circuit fault: high resistance • Circuit fault: short circuit to ground • Automatic temperature control module fault	Check the fuses. Check the operation of the washer jet and mirror heater relay. Check the washer jet and mirror heater circuits. Refer to the electrical guides. Refer to the warranty policy and procedures manual if a module is suspect.
Mirrors inoperative in one or more directions	• Mechanical fault • Switch fault • Motor fault • Circuit fault: high resistance • Circuit fault: short circuit to ground	Operate the mirror switch and listen for the motor(s). If the motor(s) can be heard, check the mechanical condition of the mirror and linkages. Rectify as necessary. Check for DTCs indicating a switch, motor or circuit fault.
Memorized mirror position is not resumed	• Battery voltage below 10.5 volts • Position not stored • Switch operated during "one-touch" memory recall • EEPROM fault	Before condemning a memory component, check the function from the switch and refer to the symptoms above. Make sure the battery voltage is adequate. Make sure that the desired position is correctly stored. Make sure that the memory store/recall procedure is being followed. Refer to the relevant section of the workshop manual.
'Lazy entry' function inoperative	• Remote transmitter fault (battery, transmitter programming, etc) • Battery voltage below 10.5 volts • Position not stored • Switch operated during "one-touch" memory	Check that the remote transmitter operates the central locking, etc. If it does, the fault is not with the transmitter. Make sure the battery voltage is adequate. Make sure that the desired position is correctly stored. Make sure that the memory store/recall procedure is being followed. Refer to the relevant section of the workshop manual.

Symptom	Possible Causes	Action
	recall ● EEPROM fault	

DTC Index

For a list of Diagnostic Trouble Codes (DTCs) that could be logged on this vehicle, please refer to Section 100-00.
REFER to: [Diagnostic Trouble Code \(DTC\) Index - DTC: Central Junction Box \(CJB\)](#) (100-00 General Information, Description and Operation) /
[Diagnostic Trouble Code \(DTC\) Index - DTC: Driver/Passenger Door Module \(DDM/PDM\)](#) (100-00 General Information, Description and Operation).

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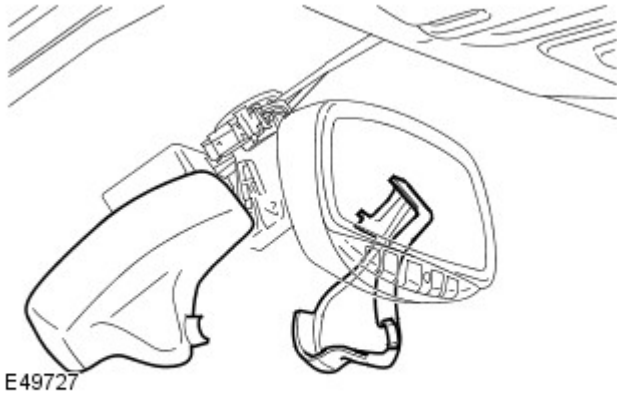
Rear View Mirrors - Interior Mirror

Removal and Installation

Removal

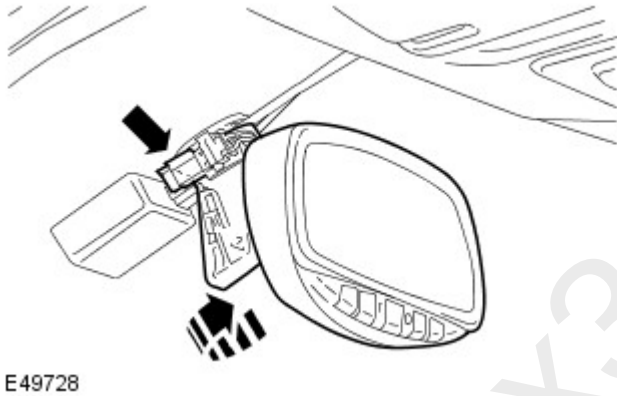
1. If installed, remove the interior mirror upper and lower covers.

- Release the 2 clips.



2. Vehicles with an auto-dimming interior mirror, remove the interior mirror.

- Disconnect the electrical connector.
- Rotate the mirror stem at its base to release from the windshield.



3. Vehicles without an auto-dimming interior mirror, remove the interior mirror.

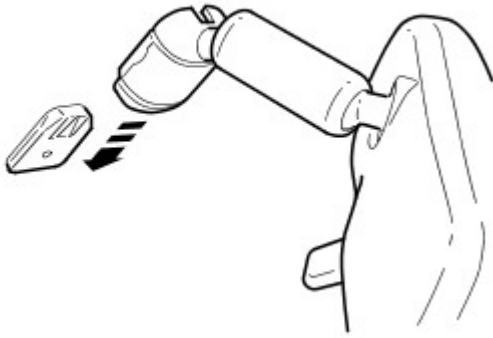
- Pull the mirror away from the windshield to release the clip.



Installation

1. Vehicles without an auto-dimming interior mirror, install the interior mirror.

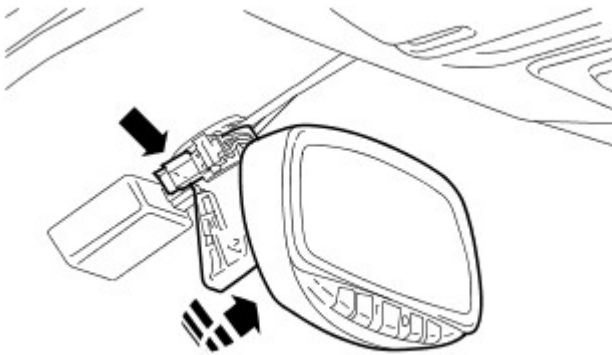
- Slide the mirror onto the boss from above to engage the clip.



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2. Vehicles with an auto-dimming interior mirror, install the interior mirror.

- Rotate the mirror stem at its base to secure to the windshield.
- Connect the electrical connector.



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3. Install the interior mirror covers.

- Secure with the clips.

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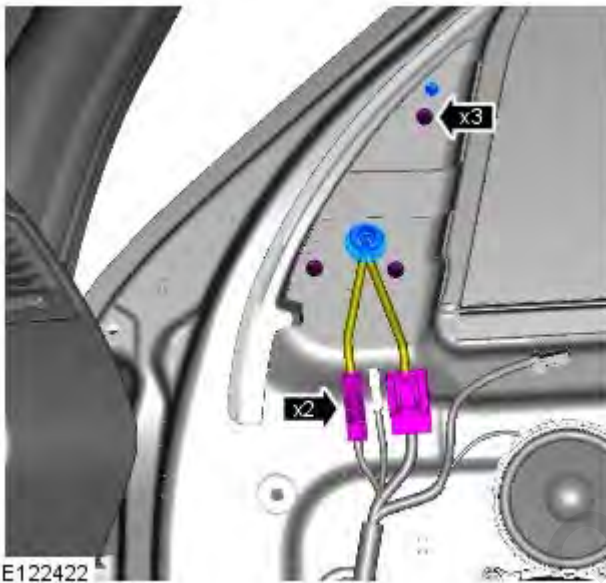
Rear View Mirrors - Exterior Mirror Vehicles With: Parking Aid Camera

Removal and Installation

Removal

- NOTE: Removal steps in this procedure may contain installation details.
- NOTE: RH illustration shown, LH is similar.
- NOTE: The ignition must be switched off.
- NOTE: Some variation in the illustrations may occur, but the essential information is always correct.

1. Refer to: [Front Door Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).



2.  CAUTION: Take extra care not to damage the wiring harnesses.

- NOTE: Support as necessary.

Torque: 6 Nm

- 3.



Installation

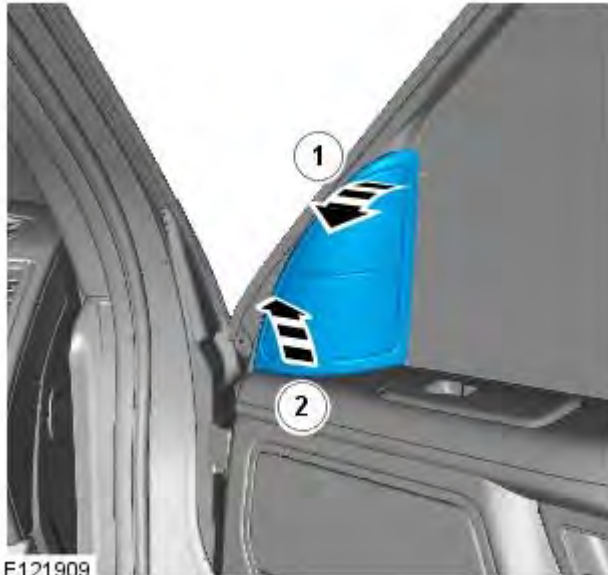
1. To install, reverse the removal procedure.

Rear View Mirrors - Exterior Mirror Vehicles Without: Parking Aid Camera

Removal and Installation

Removal

- NOTE: Removal steps in this procedure may contain installation details.
- NOTE: RH illustration shown, LH is similar.
- NOTE: The ignition must be switched off.
- NOTE: Some variation in the illustrations may occur, but the essential information is always correct.



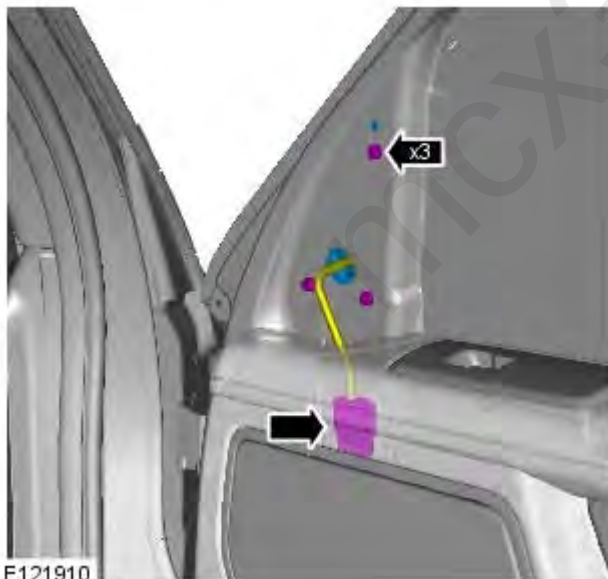
1. 1. CAUTIONS:



Take extra care not to damage the component.



Make sure that the clips are correctly located.



2. 2. CAUTIONS:



Take extra care not to damage the wiring harnesses.

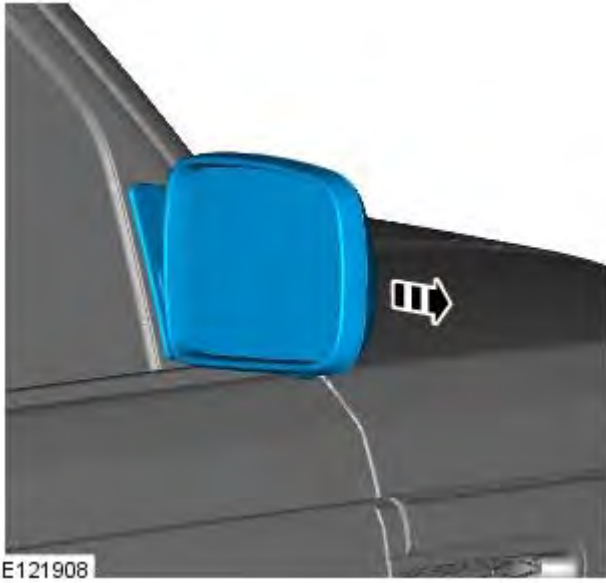


Make sure the electrical connector is securely in the service position, before disconnection. If the connector springs back after disconnection the internal door trim panel will have to be removed for access.

- NOTE: Support as necessary.

Torque: 6 Nm

3.



Installation

1. To install, reverse the removal procedure.

Rear View Mirrors - Exterior Mirror Glass

Removal and Installation

Removal

- NOTE: Removal steps in this procedure may contain installation details.
- NOTE: Some variation in the illustrations may occur, but the essential information is always correct.

1.  CAUTION: Take extra care not to damage the clips.



Installation

1. To install, reverse the removal procedure.

Rear View Mirrors - Exterior Mirror Cover

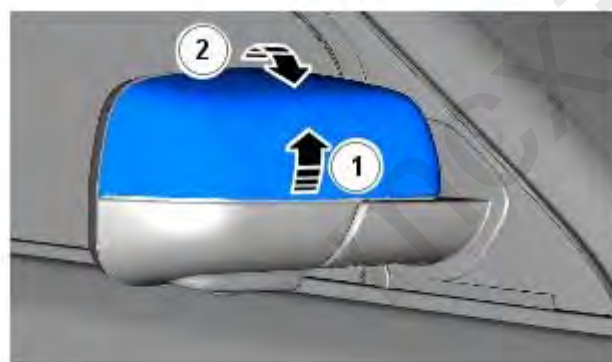
Removal and Installation

Removal

- NOTE: Removal steps in this procedure may contain installation details.
- NOTE: Some variation in the illustrations may occur, but the essential information is always correct.

1. Refer to: [Exterior Mirror Glass](#) (501-09 Rear View Mirrors, Removal and Installation).

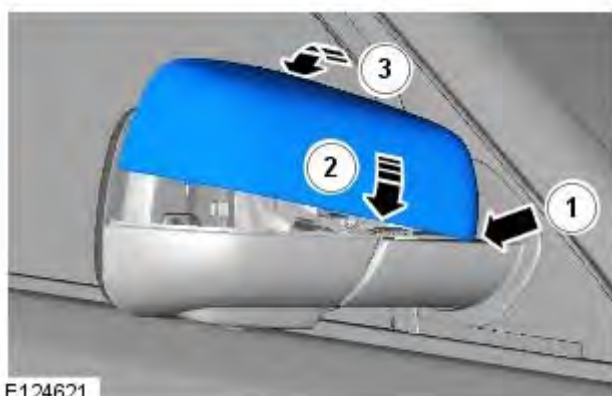
2.



3. **3. CAUTIONS:**

- ⚠ Take extra care not to damage the clips.
- ⚠ Protect the surrounding trim to avoid damage.
- ⚠ Protect the surrounding paintwork to avoid damage.

Installation



1. **1. CAUTIONS:**

- ⚠ Take extra care not to damage the clips.
- ⚠ Protect the surrounding trim to avoid damage.
- ⚠ Protect the surrounding paintwork to avoid damage.

To install, reverse the removal procedure.

Rear View Mirrors - Exterior Mirror Motor

Removal and Installation

Removal

- NOTE: Removal steps in this procedure may contain installation details.
- NOTE: The ignition must be switched off.
- NOTE: Some variation in the illustrations may occur, but the essential information is always correct.

1. Refer to: [Exterior Mirror Glass](#) (501-09 Rear View Mirrors, Removal and Installation).

2.  CAUTION: Make sure the locating tangs are aligned. Failure to follow this instruction may result in damage to the vehicle.

Torque: 1.2 Nm



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Installation

1. To install, reverse the removal procedure.