

Published: 27-Jun-2012

## Fuel Charging and Controls - Turbocharger - ID4 2.4L Diesel - Turbocharger

### Removal and Installation

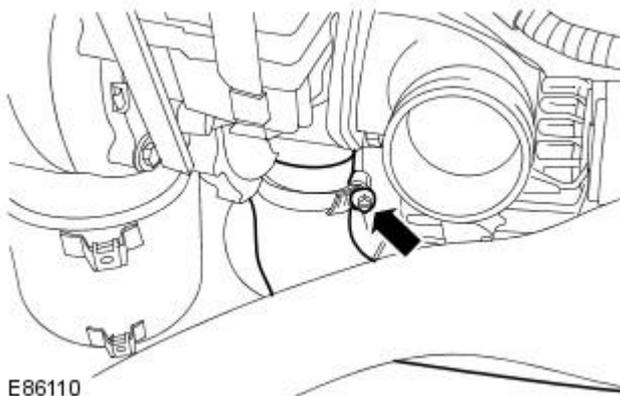
#### Removal

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

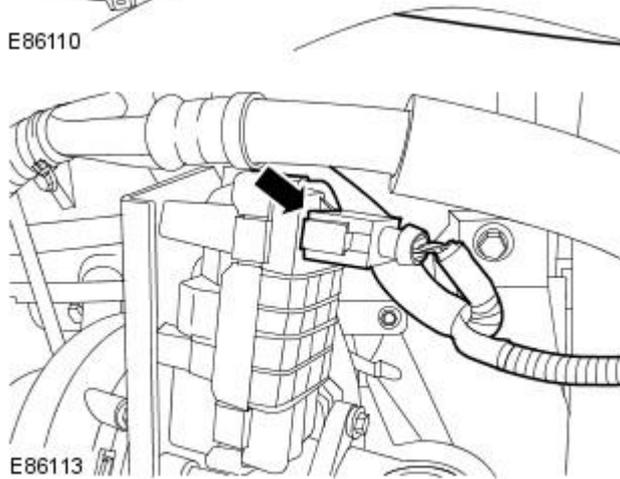
Raise and support the vehicle.

For additional information, refer to: [Lifting](#) (100-02 Jacking and Lifting, Description and Operation).

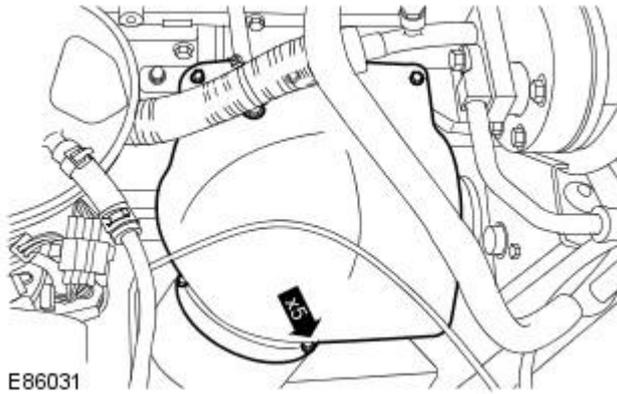
1. Remove the air cleaner outlet pipe.  
For additional information, refer to: [Air Cleaner Outlet Pipe](#) (303-12 Intake Air Distribution and Filtering - ID4 2.4L Diesel, Removal and Installation).



1. Disconnect the charge air cooler inlet hose.
  - Release the clip.

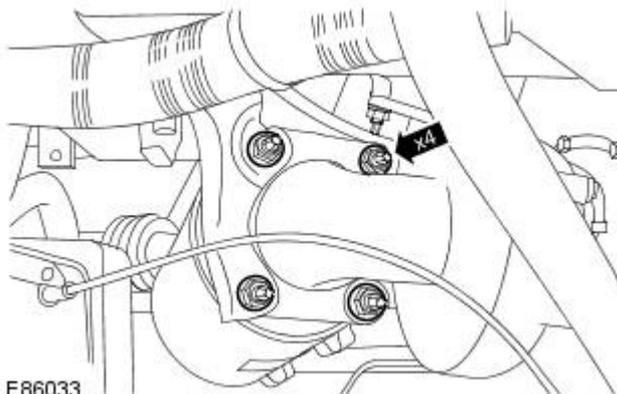


1. Disconnect the turbocharger electrical connector.



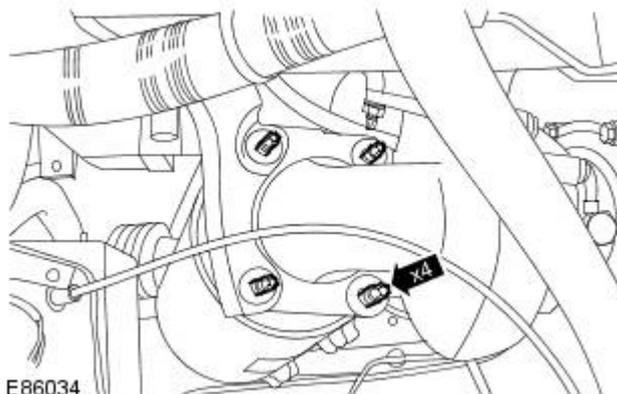
E86031

1. Remove the turbocharger heat shield.
  - Remove the 5 bolts.



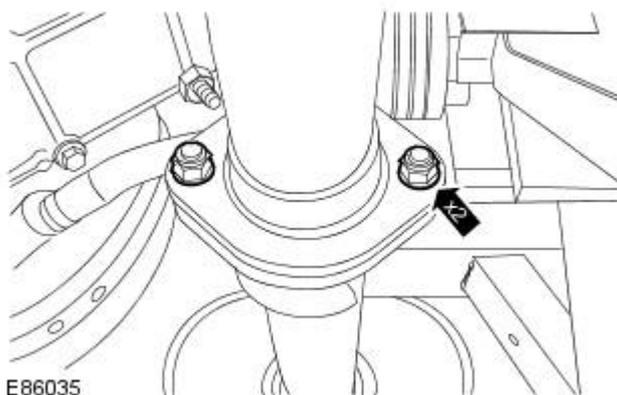
E86033

1. Remove and discard the 4 nuts from the catalytic converter.



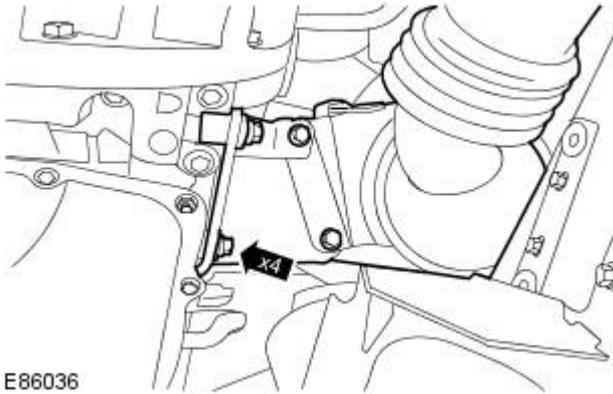
E86034

1. Remove and discard the 4 studs from the catalytic converter.

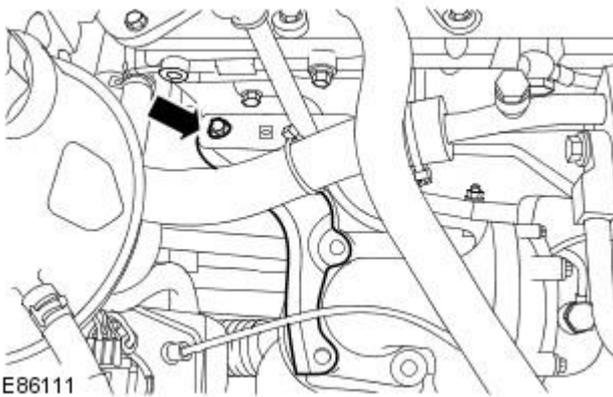


E86035

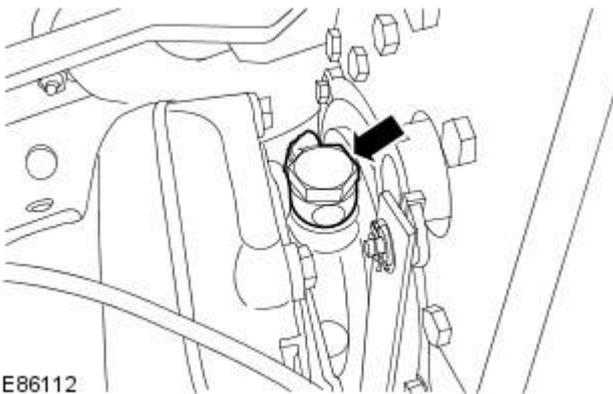
1. Release the catalytic converter.
  - Remove and discard the 2 nuts.



1. Release the catalytic converter.
  - Loosen the 4 bolts.



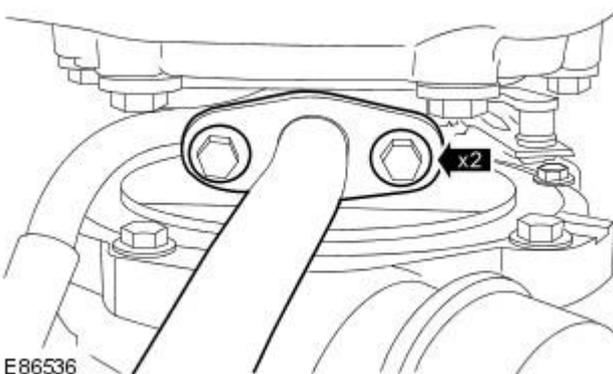
1. Remove the catalytic converter bracket.
  - Remove the bolt.



1.  CAUTION: Make sure that all openings are sealed. Use new blanking caps.

Disconnect the turbocharger oil supply pipe.

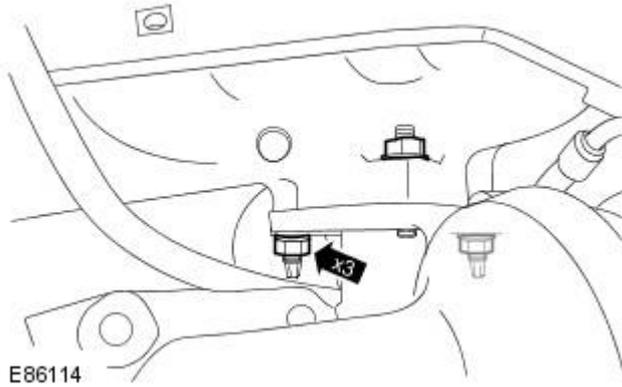
- Remove the banjo bolt.
- Remove and discard the sealing washers.



1.  CAUTION: Make sure that all openings are sealed. Use new blanking caps.

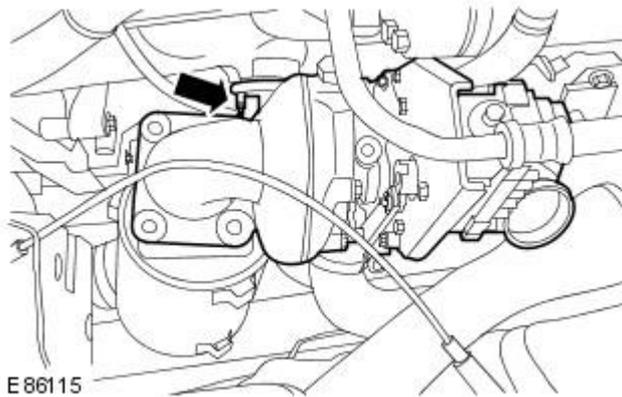
Release the turbocharger oil return tube.

- Remove the 2 bolts.
- Remove and discard the gasket.



E86114

1. Remove and discard the 3 turbocharger nuts.

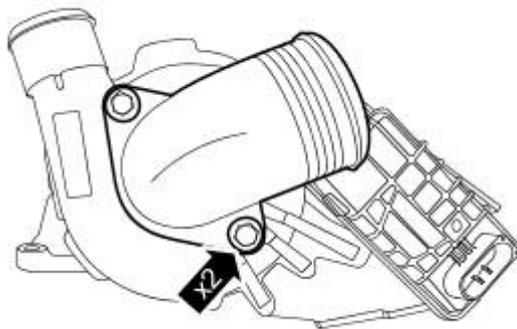


E86115

1.  **CAUTION:** Make sure that all openings are sealed. Use new blanking caps.

Remove the turbocharger.

- Remove and discard stud.
- Remove and discard the gasket.



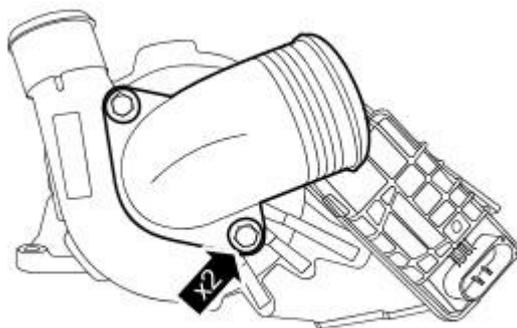
E86116

1.  **NOTE:** Do not disassemble further if the component is removed for access only.

Remove the turbocharger inlet duct.

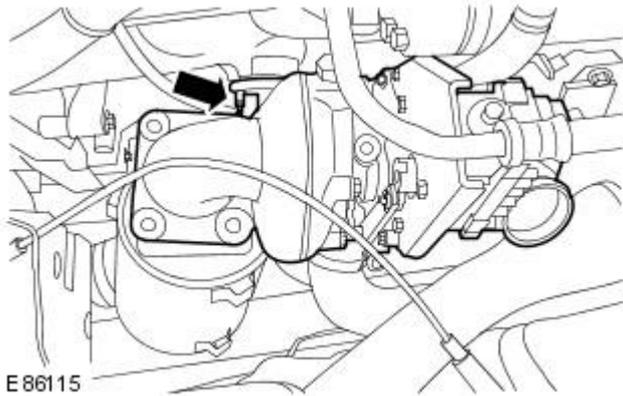
- Remove the 2 bolts.

## Installation



E86116

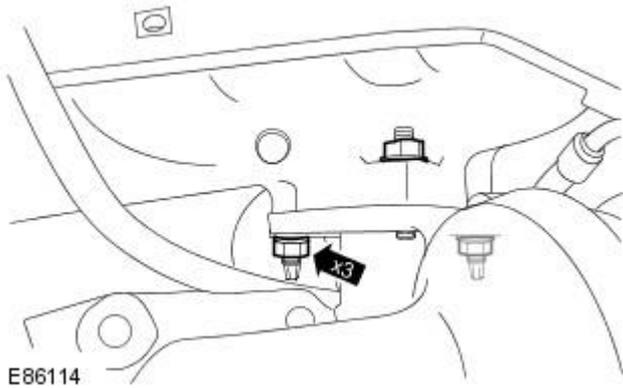
1. Install the turbocharger inlet duct.
  - Tighten to 23 Nm (17 lb.ft).



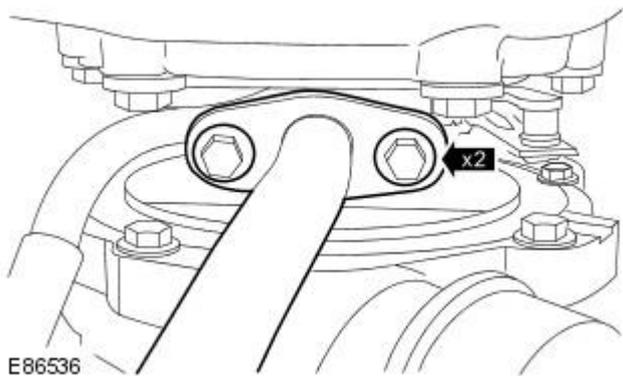
1.  NOTE: Remove and discard the blanking caps.

Install the turbocharger.

- Install a new gasket.
- Install new studs.



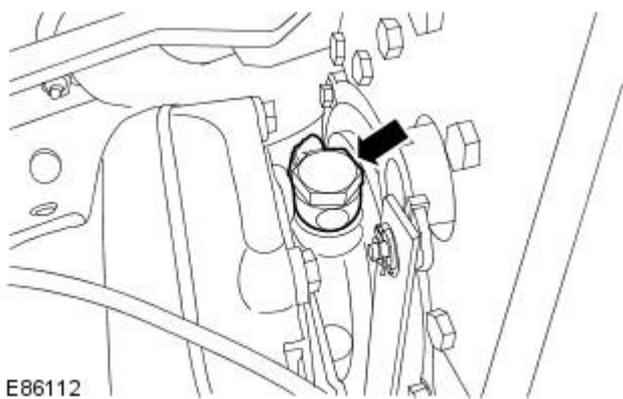
1. Install new turbocharger nuts.
  - Tighten the nut to 23 Nm (17 lb.ft).



1.  NOTE: Remove and discard the blanking caps.

Secure the turbocharger oil return tube.

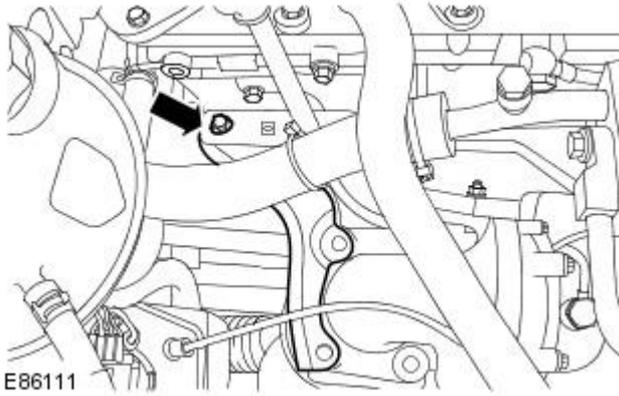
- Install a new gasket.
- Tighten the bolts to 10 Nm (7 lb.ft).



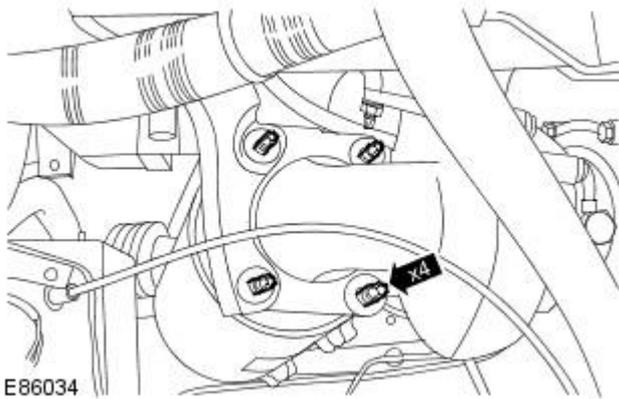
1.  NOTE: Remove and discard the blanking caps.

Connect the turbocharger oil supply pipe.

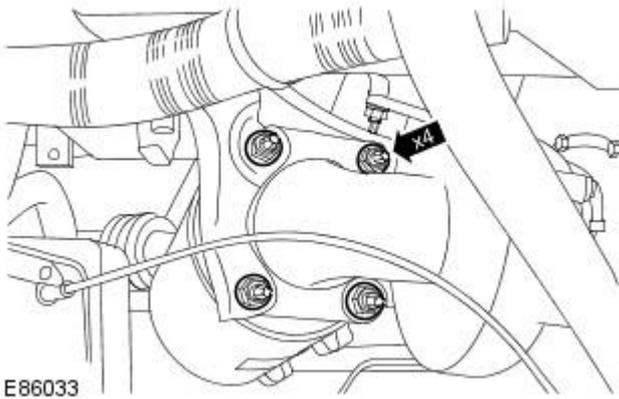
- Install new sealing washers.
- Tighten the banjo bolt to 35 Nm (26 lb.ft).



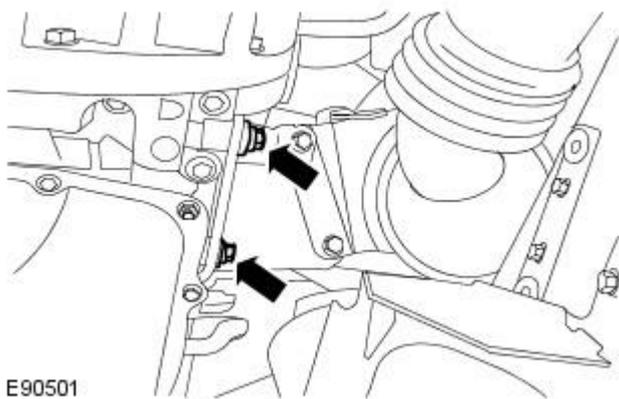
1. Install the catalytic converter bracket.
  - Loosely install the bolt.



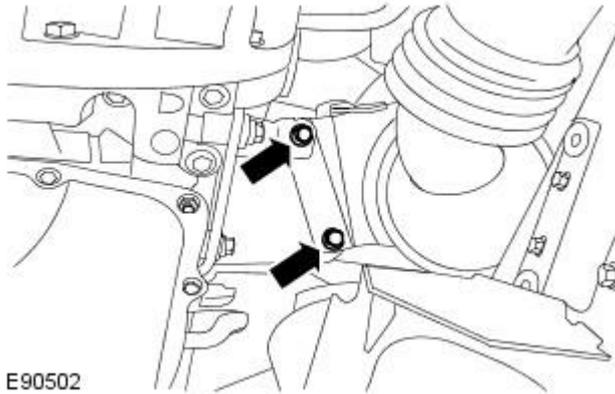
1. Install 4 new studs to the catalytic converter.



1. Install 4 new nuts to the catalytic converter.
  - Tighten to 45 Nm (33 lb.ft).

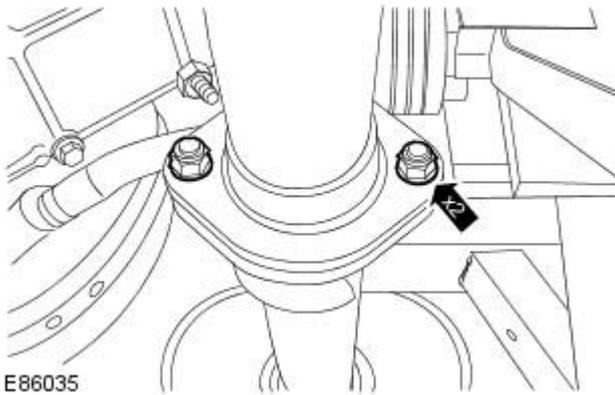


1. Tighten to 30 Nm (22 lb.ft).



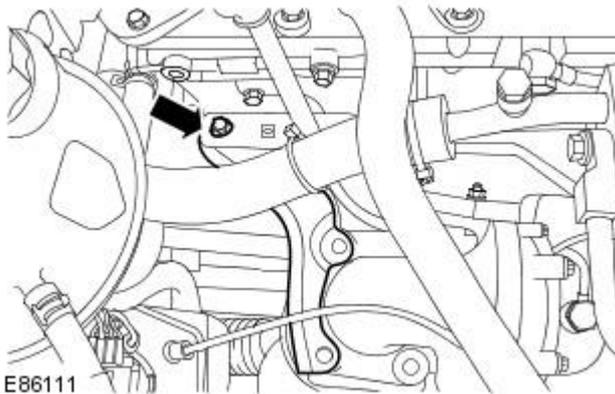
E90502

1. Tighten to 30 Nm (22 lb.ft).



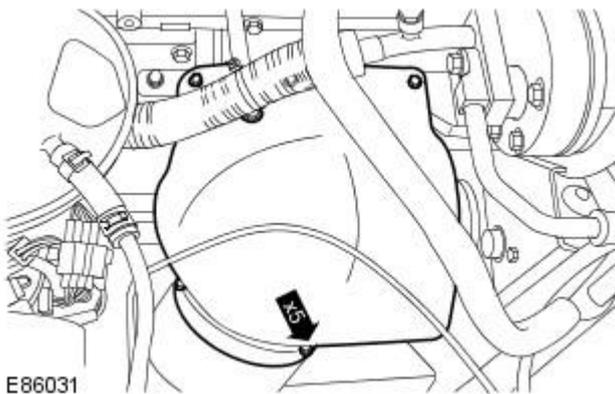
E86035

1. Install new nuts.
  - Tighten to 30 Nm (22 lb.ft).



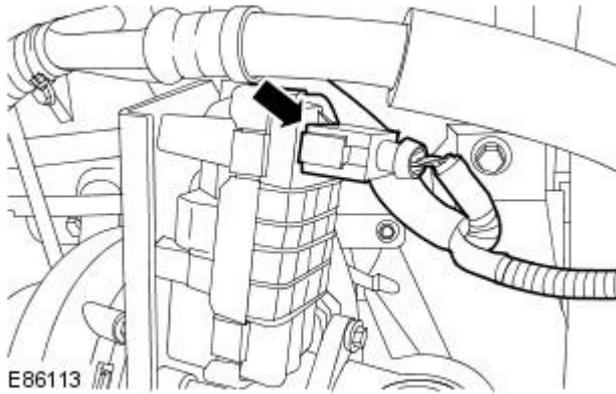
E86111

1. Tighten to 20 Nm (15 lb.ft).

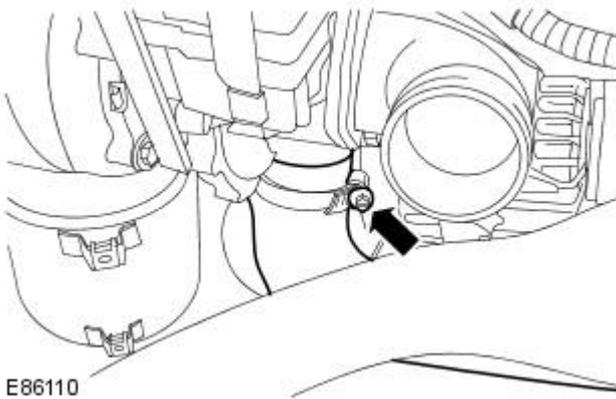


E86031

1. Install the turbocharger heat shield.
  - Tighten to 10 Nm (7 lb.ft).



1. Connect the turbocharger electrical connector.



1. Tighten to 5 Nm (4 lb.ft).

1. Install the air cleaner outlet pipe.  
For additional information, refer to:  
[Air Cleaner Outlet Pipe](#) (303-12 Intake Air Distribution and Filtering - ID4 2.4L Diesel, Removal and Installation).