

## Air Conditioning (A/C) Compressor — 3.5L GTDI

### Removal

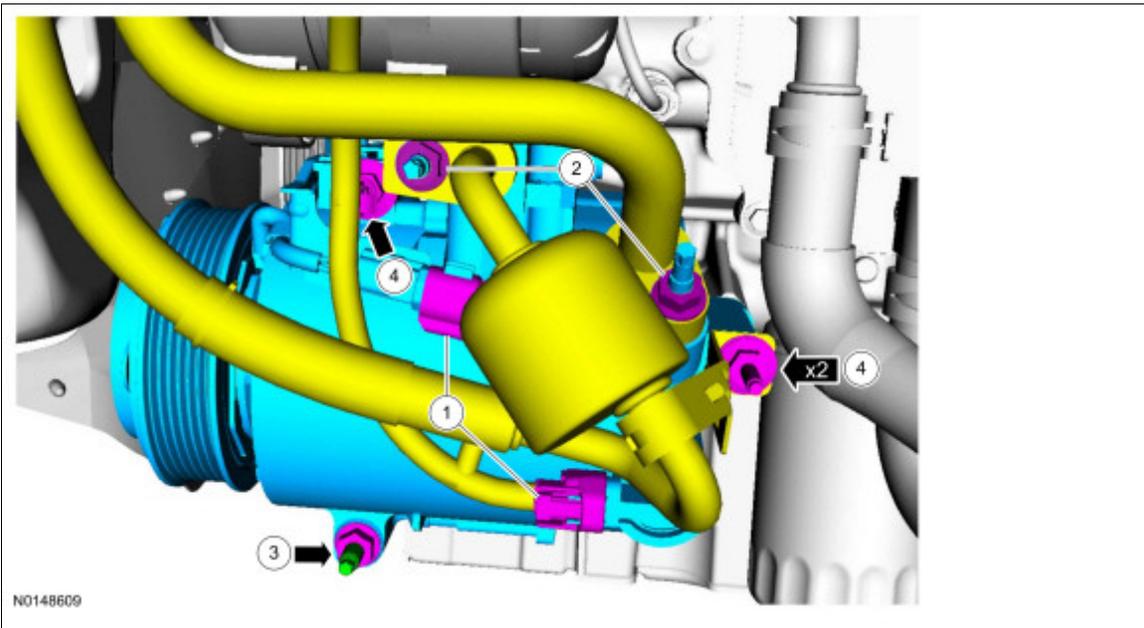
 **WARNING:** Before beginning any service procedure in this section, refer to Safety Warnings in [Section 100-00](#) . Failure to follow this instruction may result in serious personal injury.

**NOTICE:** If installing a new A/C compressor due to an internal failure of the old unit, carry out the following procedures to remove contamination from the A/C system. Failure to remove contamination will result in poor A/C performance and/or damage to the A/C system components.

- If Air Conditioning(A/C) flushing equipment is available, carry out flushing of the A/C system prior to installing a new A/C compressor. Refer to [Air Conditioning \(A/C\) System Flushing](#) .
- If A/C flushing equipment is not available, replace all contaminated components after a new A/C compressor has been installed.
- Install a new **TXV**, as directed by the A/C flushing procedure.
- Install a new receiver/drier desiccant cartridge as directed by the A/C flushing procedure.

**NOTE:** Installation of a new receiver/drier desiccant cartridge is not required when installing a new A/C compressor, except when there is physical evidence of a failed A/C compressor, or damage to the receiver/drier desiccant cartridge.

1. With the vehicle in NEUTRAL, position it on a hoist. For additional information, REFER to [Section 100-02](#) .
2. If flushing of the A/C system has not been carried out, recover the refrigerant. For additional information, refer to [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging](#) in this section.
3. Remove the accessory drive belt. For additional information, REFER to [Section 303-05](#) .
4. Remove the A/C compressor.
  - Detach the wire harness pin-type retainer, disconnect the field coil and control valve electrical connectors.
  - Remove the A/C compressor suction and discharge fitting nuts and disconnect the fittings.
    - Tighten to 20 Nm (177 lb-in).
    - Discard the O-ring seal.
  - Remove the A/C compressor mounting nut, completely loosen the A/C compressor mounting stud, remove the A/C compressor bolts and remove the A/C compressor.
    - Tighten to 9 Nm (80 lb-in).



## Installation

1. To install, reverse the removal procedure.
  - Install new gasket seals and O-ring seals.
  - Add the correct amount of clean PAG oil to the refrigerant system. Refer to [Refrigerant Oil Adding](#) .
  - Evacuate, leak test and charge the refrigerant system. Refer to [Air Conditioning \(A/C\) System Recovery, Evacuation and Charging](#) .
2. Tighten the A/C compressor bolts and nut in the sequence shown.
  - Tighten to 25 Nm (18 lb-ft).

