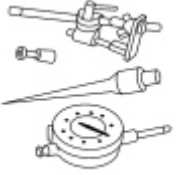



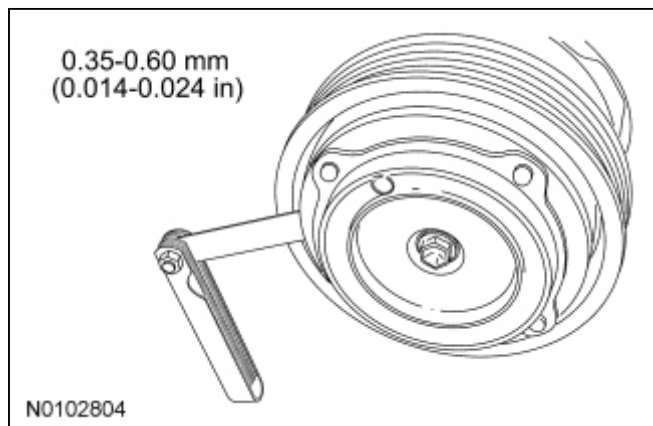
Air Conditioning (A/C) Clutch Air Gap Adjustment

Special Tool(s)

 ST1214-A	Dial Indicator Gauge With Holding Fixture 100-002 or equivalent
 ST2946-A	Holding Tool, Compressor Clutch 412-134

4.0L SOHC and 4.6L (3V) vehicles

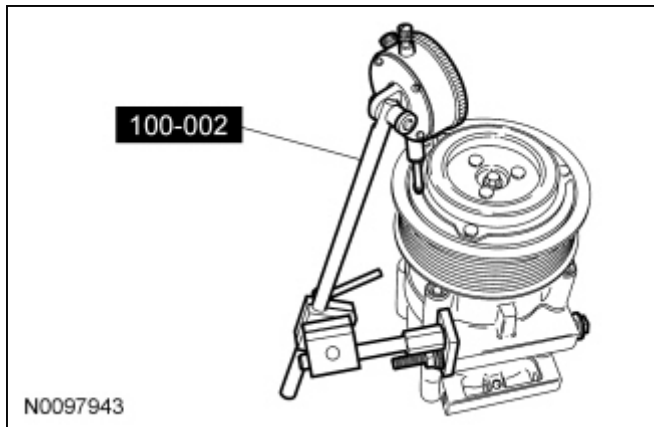
1. Check the clutch air gap at 3 equally spaced places between the clutch plate and the A/C clutch pulley.



5.4L (4V) vehicles

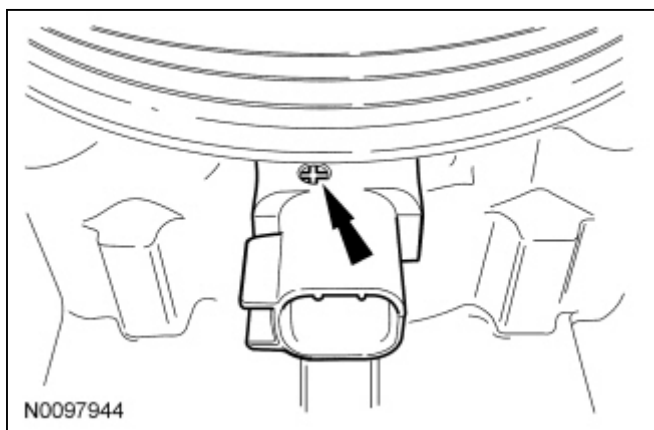
2. If the A/C compressor has not been removed from the vehicle, remove the lower front A/C compressor bolt.
 - To install, tighten to 25 Nm (18 lb-ft).
3. **NOTE:** If carrying out the clutch air gap measurement with the A/C compressor removed from the vehicle, the Dial Indicator Gauge with Holding Fixture can be installed using the lower front A/C compressor bolt and a suitable nut.

Using the A/C compressor bolt, attach the Dial Indicator Gauge with Holding Fixture to the bottom front compressor mounting boss with the gauge pin contacting the hub portion of the A/C clutch disc and hub and partially depressed.



4. **NOTICE:** The positive side of the Air Conditioning (A/C) clutch field coil electrical connector will be identified by the presence of a positive symbol on the component side of the electrical connector.

Disconnect and inspect the A/C clutch field coil electrical connector to correctly identify the positive side of the electrical connector.



5. **NOTE:** To make sure of correct polarity, only attach the 12V power supply positive lead to the positive side of the electrical connector and the negative lead to the negative side.

Using 2 fused jumper wires, engage the compressor clutch by connecting the A/C clutch field coil to the power and ground from a 12V power supply.

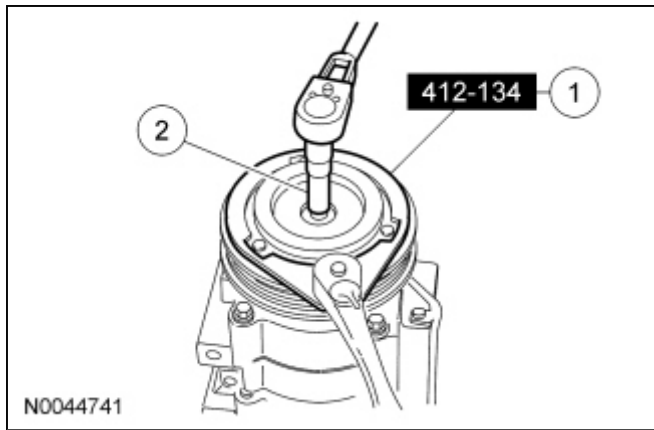
6. Adjust the Dial Indicator Gauge to the zero position with the A/C clutch engaged.
7. Disconnect the 12V power supply from the A/C clutch field coil.
8. **NOTE:** When the 12V power supply is disconnected from the A/C clutch field coil, the clutch air gap measurement will be displayed on the runout gauge.

Record the clutch air gap measurement shown on the runout gauge.

9. Repeat the measurement at 2 additional equally spaced places on the disc portion of the A/C clutch disc and hub assembly.
10. Remove the Dial Indicator Gauge with Holding Fixture from the vehicle and reinstall the lower front A/C compressor bolt.

All vehicles

11. If the A/C clutch air gap measurement is out of range, remove the A/C clutch disc and hub bolt.
 1. Using the Compressor Clutch Holding Tool, hold the A/C clutch disc and hub.
 2. Remove the A/C clutch disc and hub bolt.



12. Remove the A/C clutch disc and hub.
13. Add or remove A/C clutch disc and hub spacer(s) as needed.
14. Install the A/C clutch disc and hub.
15. Install the A/C clutch disc and hub bolt.
 1. Using the Compressor Clutch Holding Tool, hold the A/C clutch disc and hub.
 2. Install the A/C clutch disc and hub bolt.
 - Tighten to 13 Nm (115 lb-in).

