

SECTION 303-12: Intake Air Distribution and Filtering  
REMOVAL AND INSTALLATION

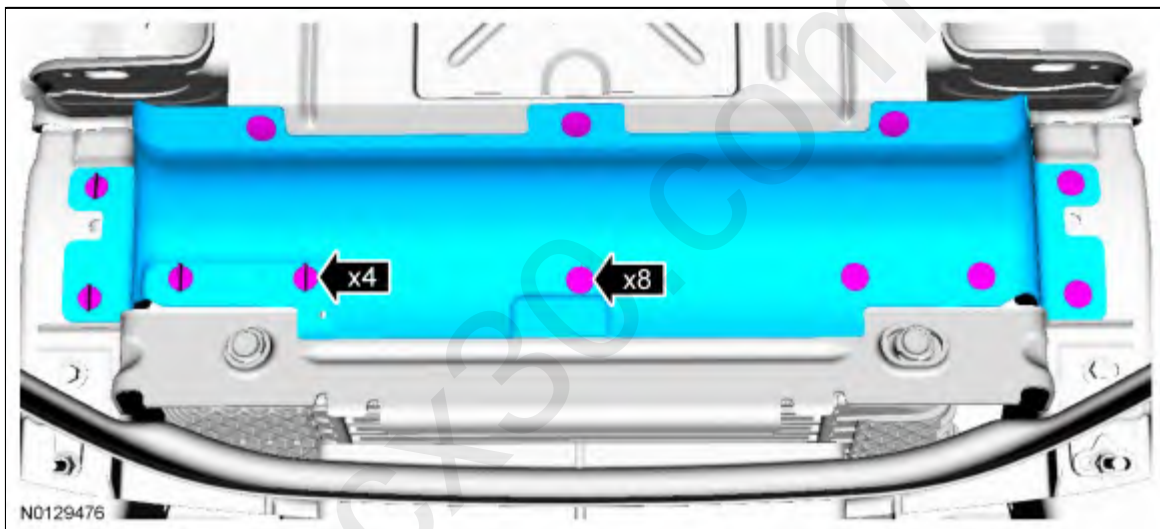
2014 F-150 Workshop Manual  
Procedure revision date: 10/25/2013

## Charge Air Cooler

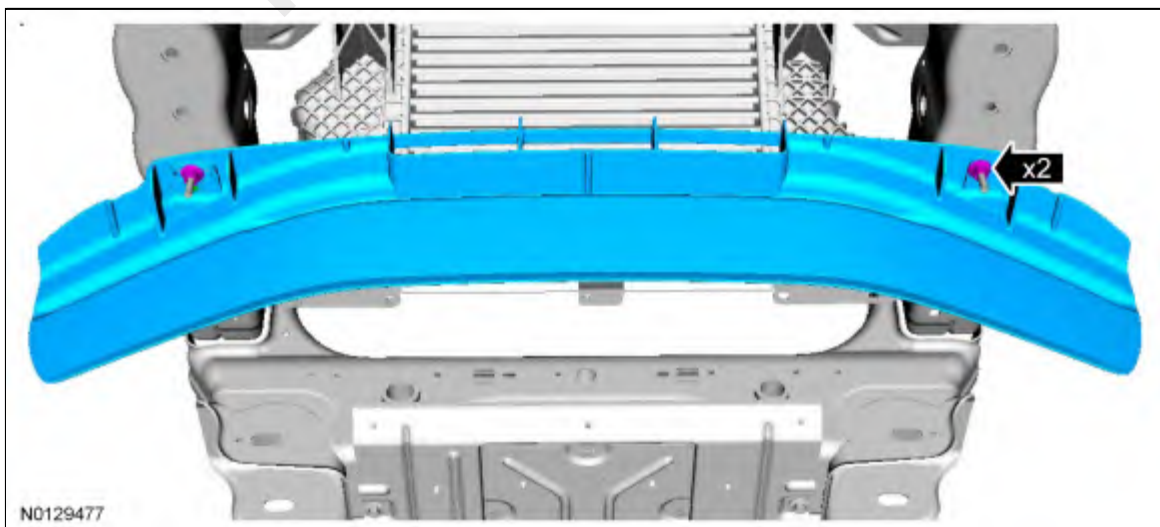
### Removal and Installation

**NOTICE:** Whenever turbocharger air intake system components are removed, always cover open ports to protect from debris. It is important that no foreign material enter the system. The turbocharger compressor vanes are susceptible to damage from even small particles. All components should be inspected and cleaned, if necessary, prior to installation or reassembly.

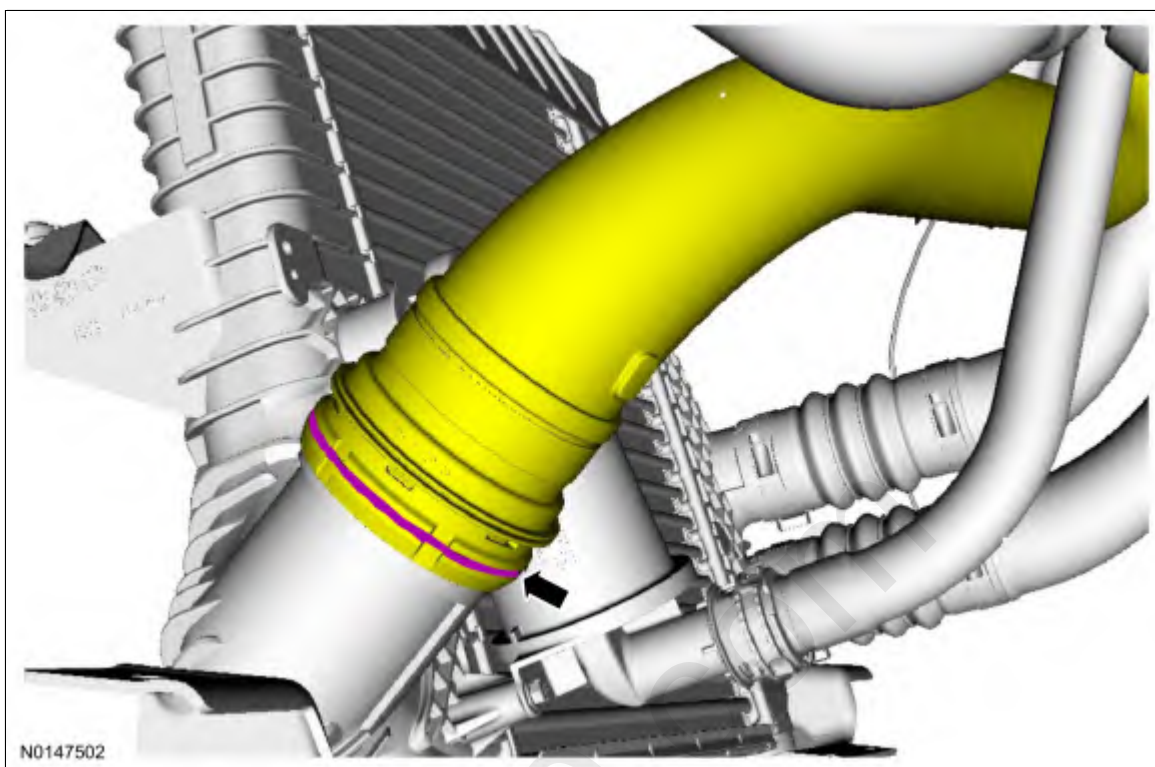
1. With the vehicle in NEUTRAL, position it on a hoist. Refer to [Section 100-02](#).
- 2.



3.
  - Tighten to 20 Nm (15 lb-ft).

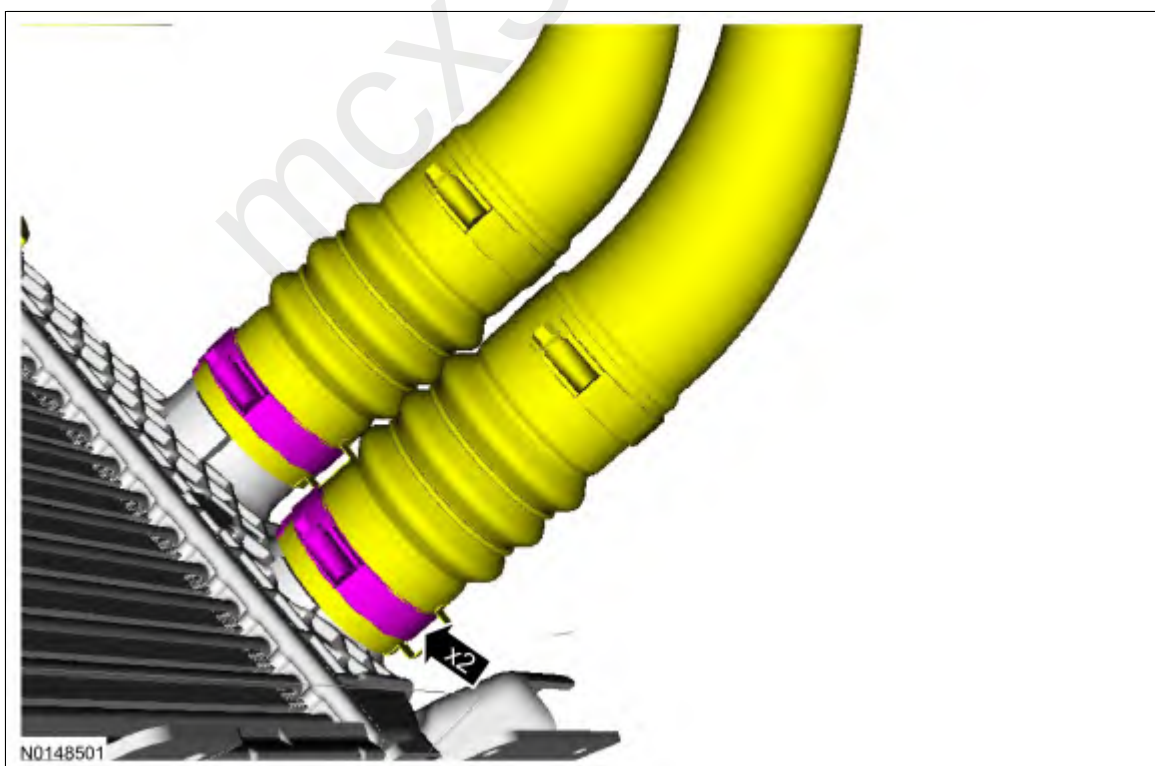


4.

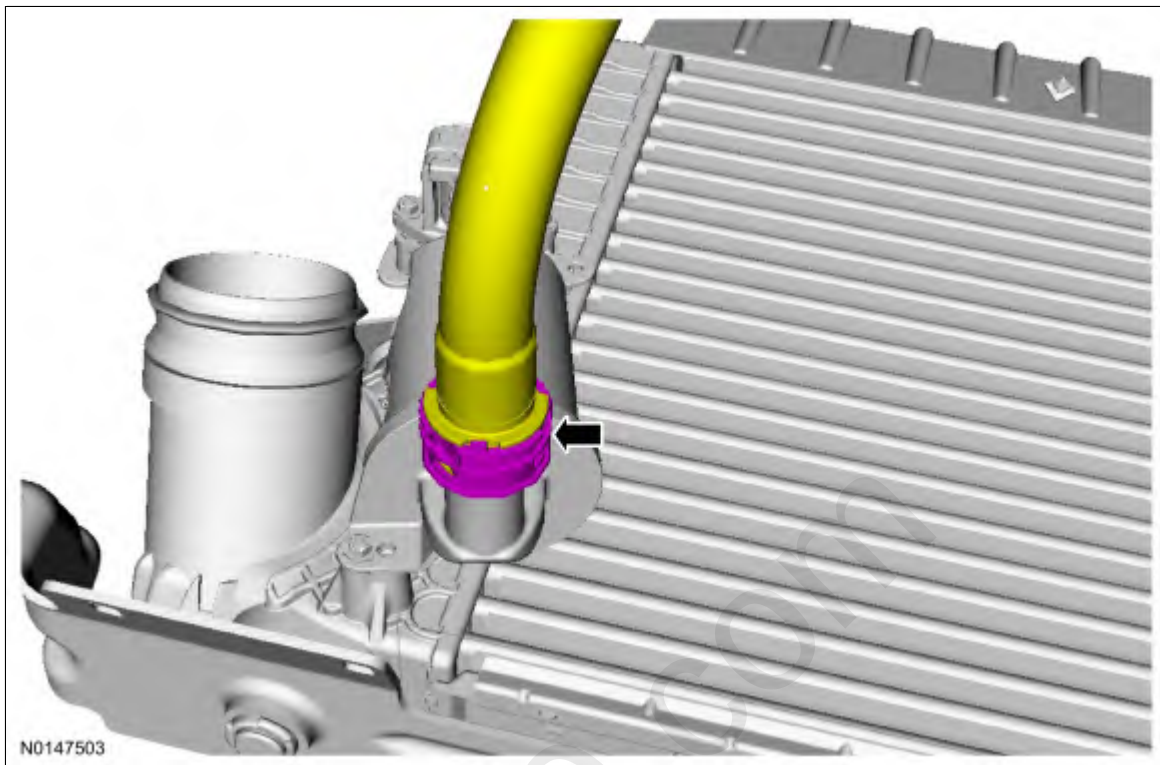


5.

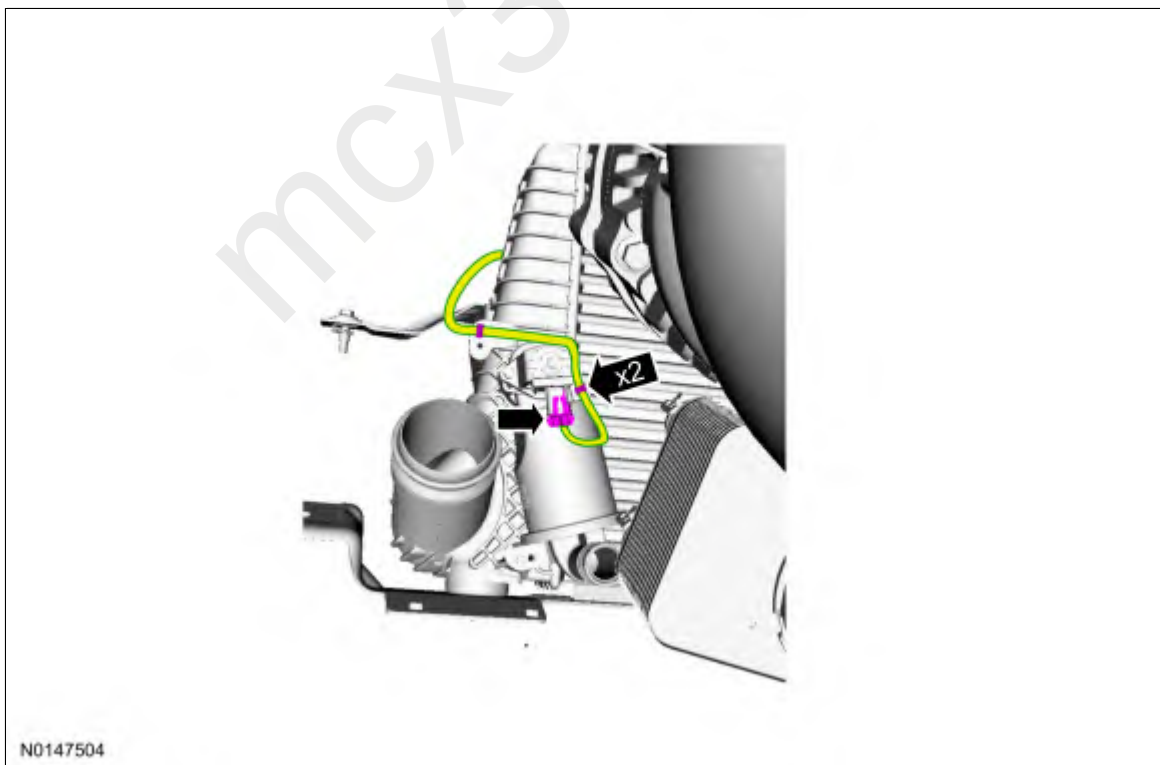
- Tighten to 5 Nm (44 lb-in).



6. Disconnect the quick connect coupling as necessary. Refer to [Section 310-00](#)

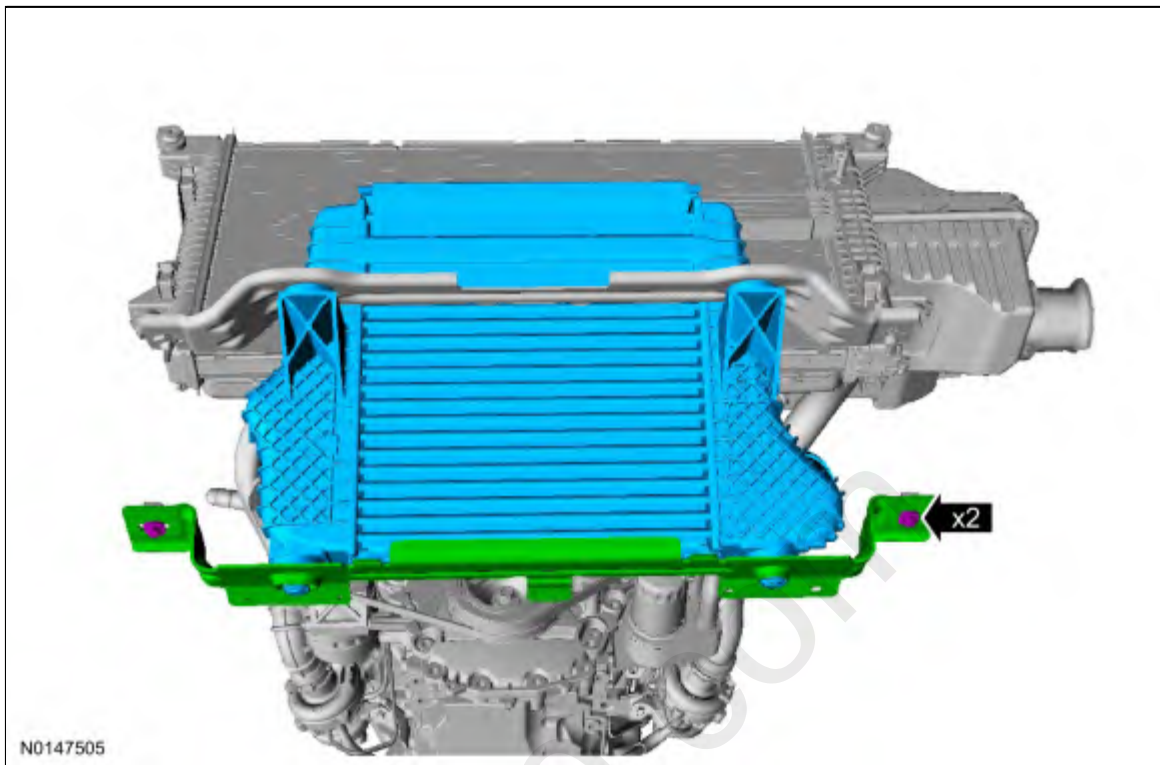


- 7.



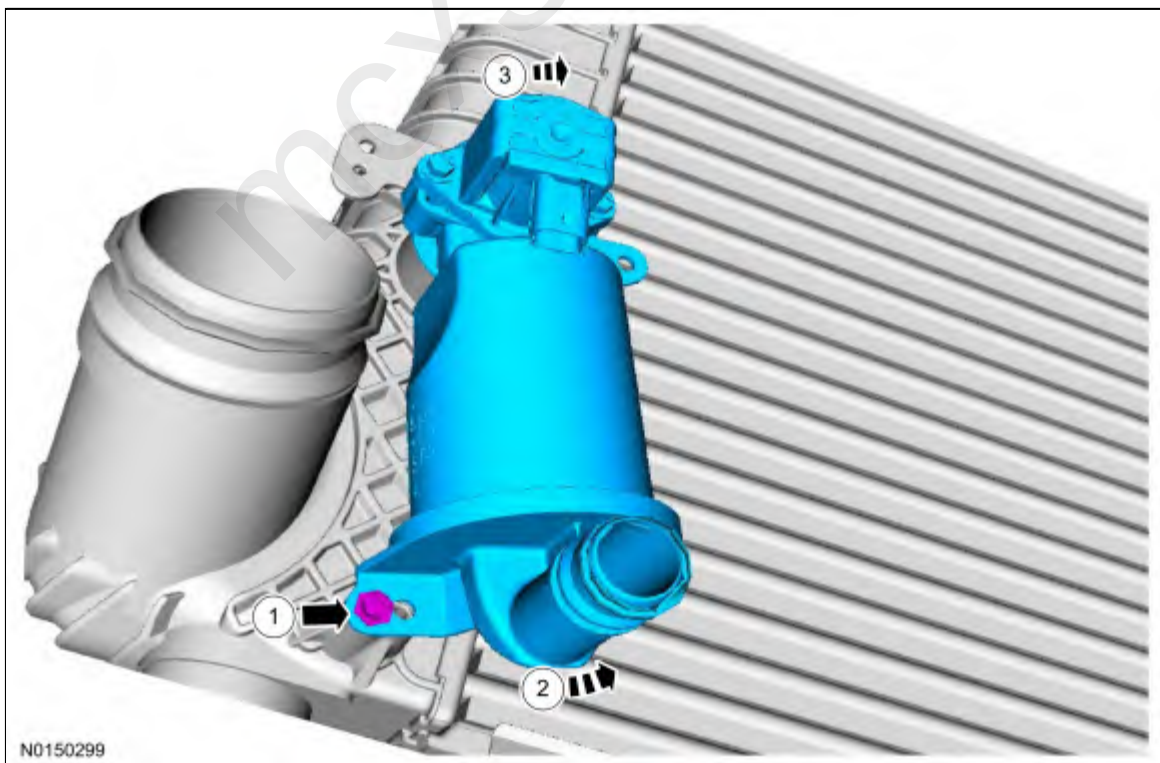
- 8.

- Tighten to 40 Nm (30 lb-ft).

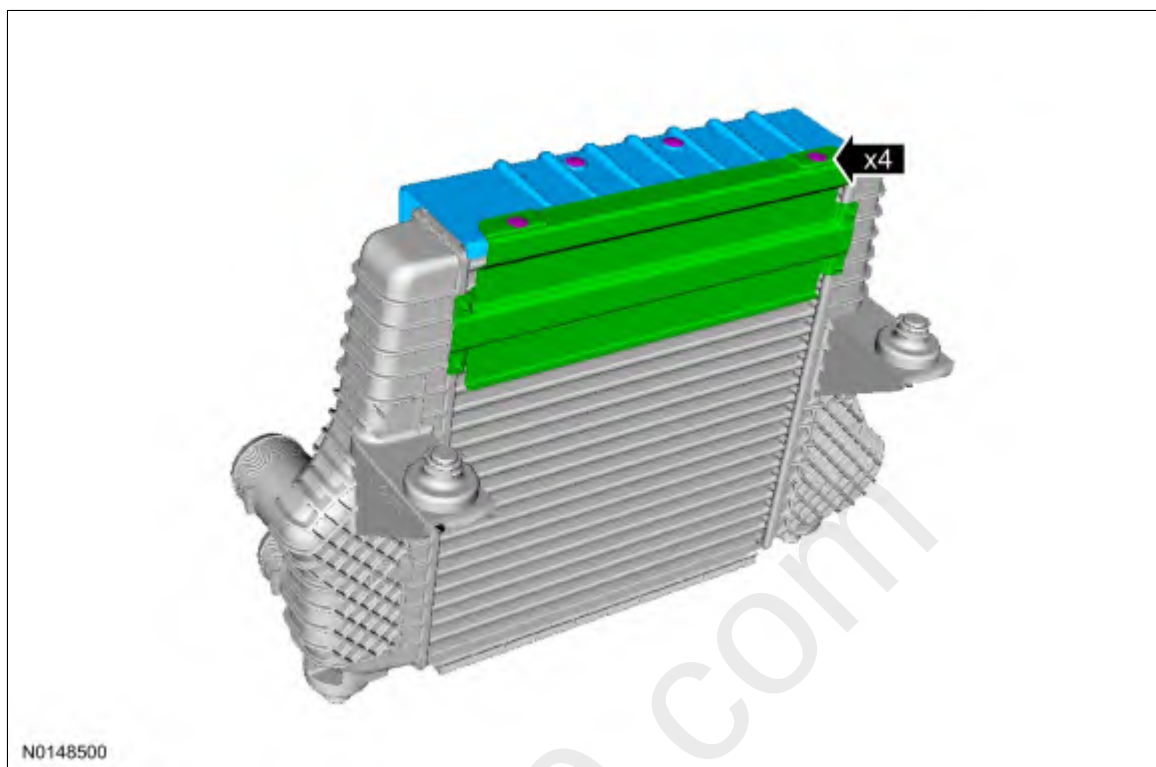


9.

- Tighten to 8 Nm (71 lb-in).



10.



11. To install, reverse the removal procedure.

---