

Torque Sequence & Steps

1. **Clean & Prep:** Clean threads, apply engine oil to most bolts (except #11), and use sealant (like PTFE/Teflon paste) on bolt #11's threads.
2. **First Pass (Center Out):** Torque all bolts in sequence (spiral from center) to **22 ft-lbs (30 N·m)**.
3. **Second Pass (Center Out):** Re-torque all bolts in the same sequence to **45 ft-lbs (61 N·m)**.
4. **Final Pass (Specifics):**
 - **Bolts 1-10 & 12-14:** Torque to **110 ft-lbs (149 N·m)** in sequence.
 - **Bolt 11 (Driver's Front):** Torque to **100 ft-lbs (135 N·m)**.
5. **Verify:** Double-check all bolts to ensure they are at their final torque.

Important Notes

- **Bolt #11:** Goes into the water jacket; requires sealant and lower torque.
- **Torque-to-Yield:** 4.0L bolts stretch and are generally single-use; replace if marked.

