

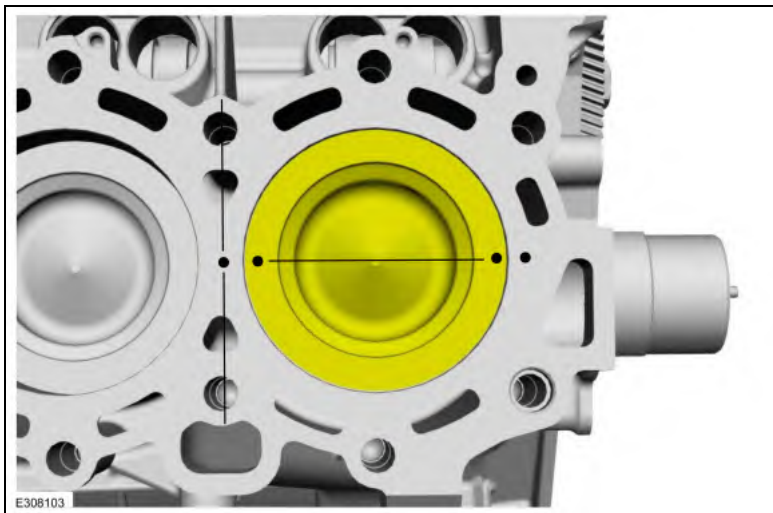
Piston Protrusion Check

Special Tool(s) / General Equipment

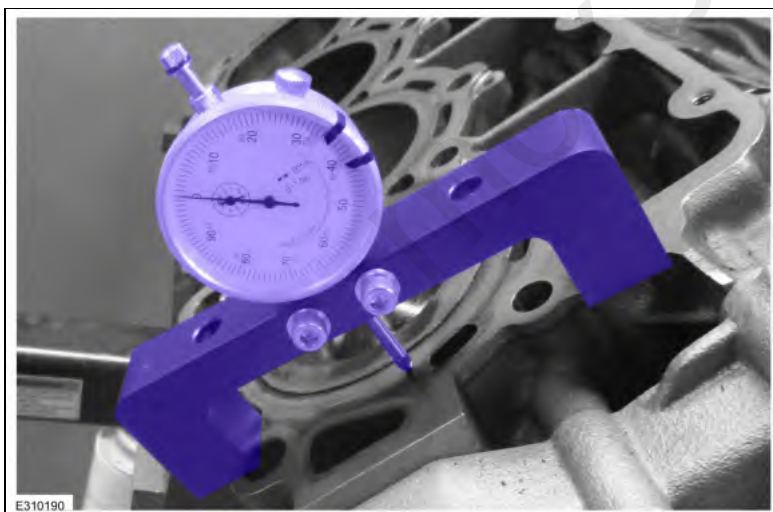
Dial Indicator

Check

1. Verify that the cylinder block deck surface and the pistons are clean.
2. The piston protrusion is measured in-line front and rear avoiding raised or etched marking.



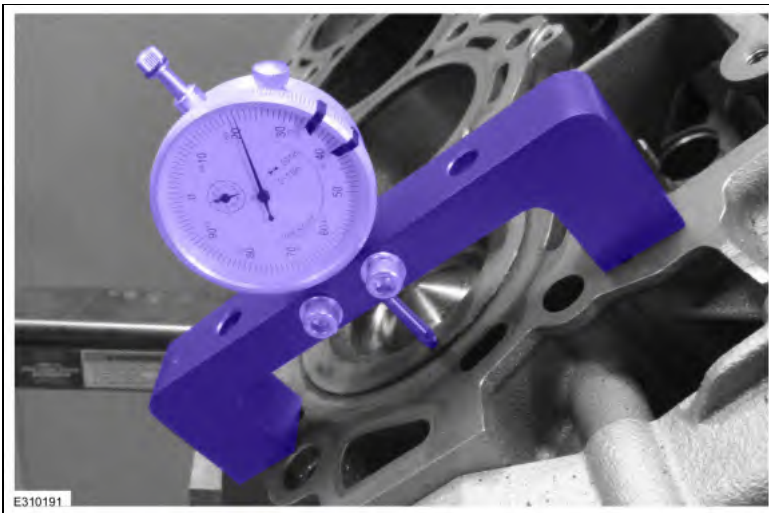
3. **NOTE:** Use a commercially available deck bridge such as the Proform® 66797 Magnetic Deck Bridge or equivalent.
 - Using the dial indicator and a commercially available deck bridge, position at one of the points on the cylinder block deck surface.
Use the General Equipment: Dial Indicator
 - Zero the dial indicator on the cylinder block deck surface.

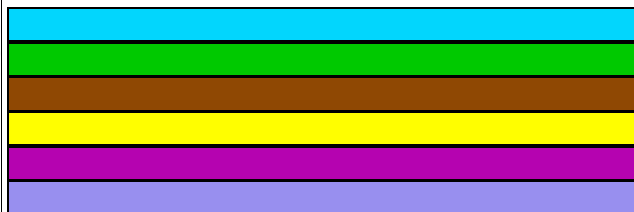


4. **NOTICE:** Only rotate the crankshaft clockwise.

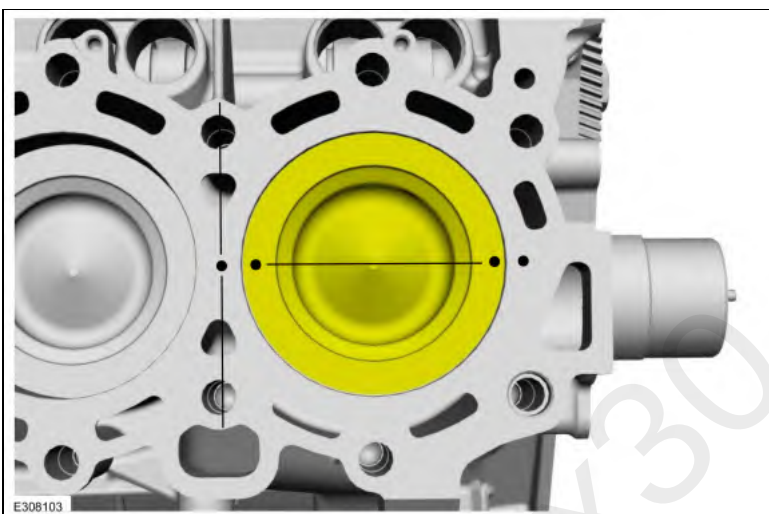
NOTICE: The piston must remain at TDC or an inconsistent reading will result.

- Position the dial indicator and a commercially available deck bridge, over the piston.
Use the General Equipment: Dial Indicator
- Rotate the crankshaft until the piston is at TDC.
Use the General Equipment: Dial Indicator
- Record the reading.



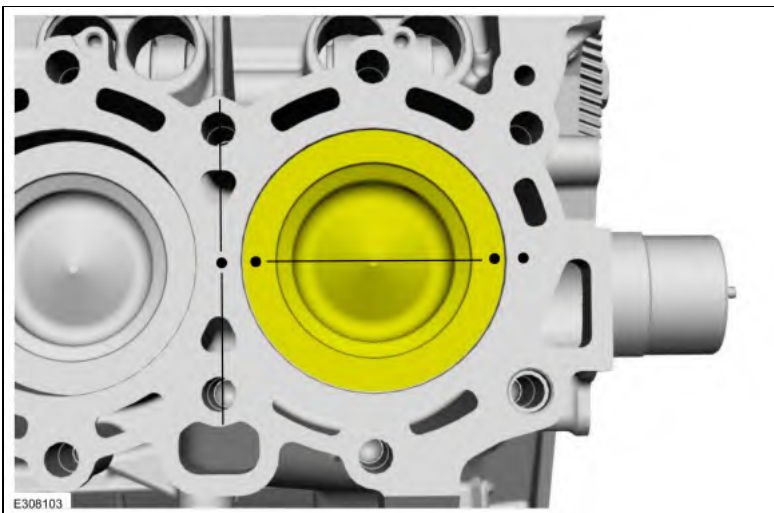


- 5.
- Move the dial indicator and the commercially available deck bridge, on the cylinder block deck surface at the opposite position.
Use the General Equipment: Dial Indicator
 - Zero the dial indicator on the cylinder block deck surface.





- 6.
- Move the dial indicator and the commercially available deck bridge, onto the piston at the opposite position.
Use the General Equipment: Dial Indicator
 - Record the reading.



7. Average the readings and record. If the average is lower than specification, the piston is lower in the bore than it should be. This indicates a bent or twisted connecting rod.
8. Repeat on the remaining pistons.
9. Compare with the piston protrusion specification, replace any connecting rods out of specification.
Refer to: Specifications (303-01B Engine - 6.7L Power Stroke Diesel, Specifications).