

ENGINE SYSTEM - GENERAL INFORMATION

CYLINDER BLOCK DISTORTION MEASUREMENT

[G2463959]

GENERAL PROCEDURES

12.25.34

**CYLINDER
BLOCK
DISTORTION
MEASUREMENT**

**2000 CC,
INGENIUM
DIESEL**

0.10

USED WITHINS

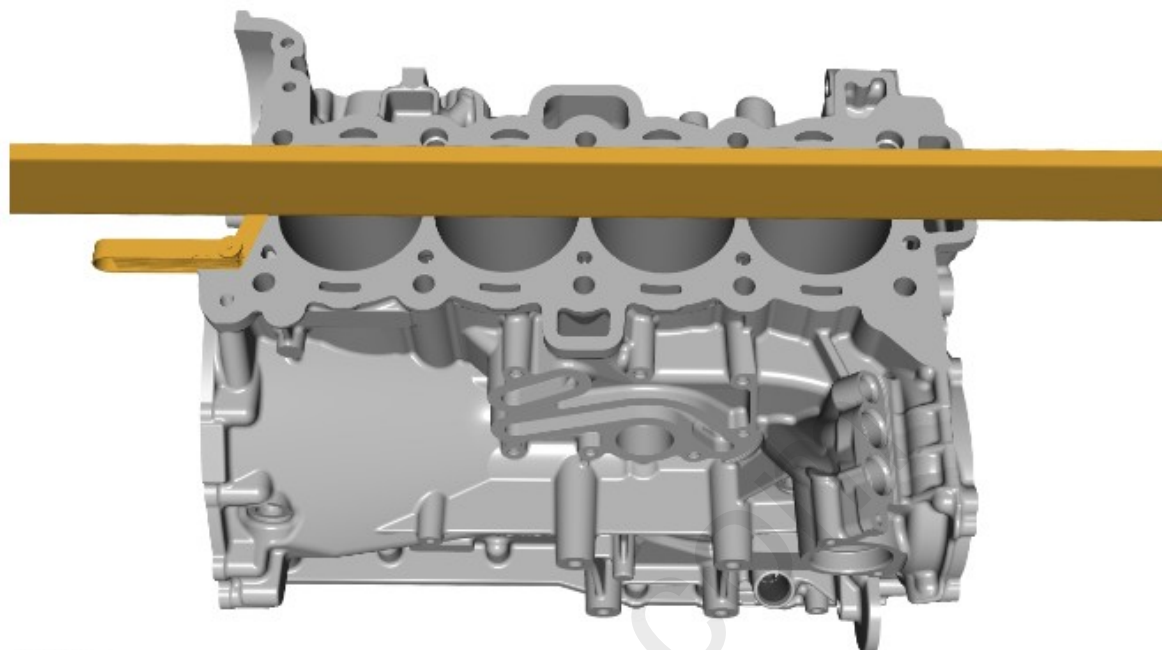
CHECK

 NOTES:

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.
- Step 19 applies to all engines.

 NOTE:

INGENIUM I4 2.0L Petrol engines only.

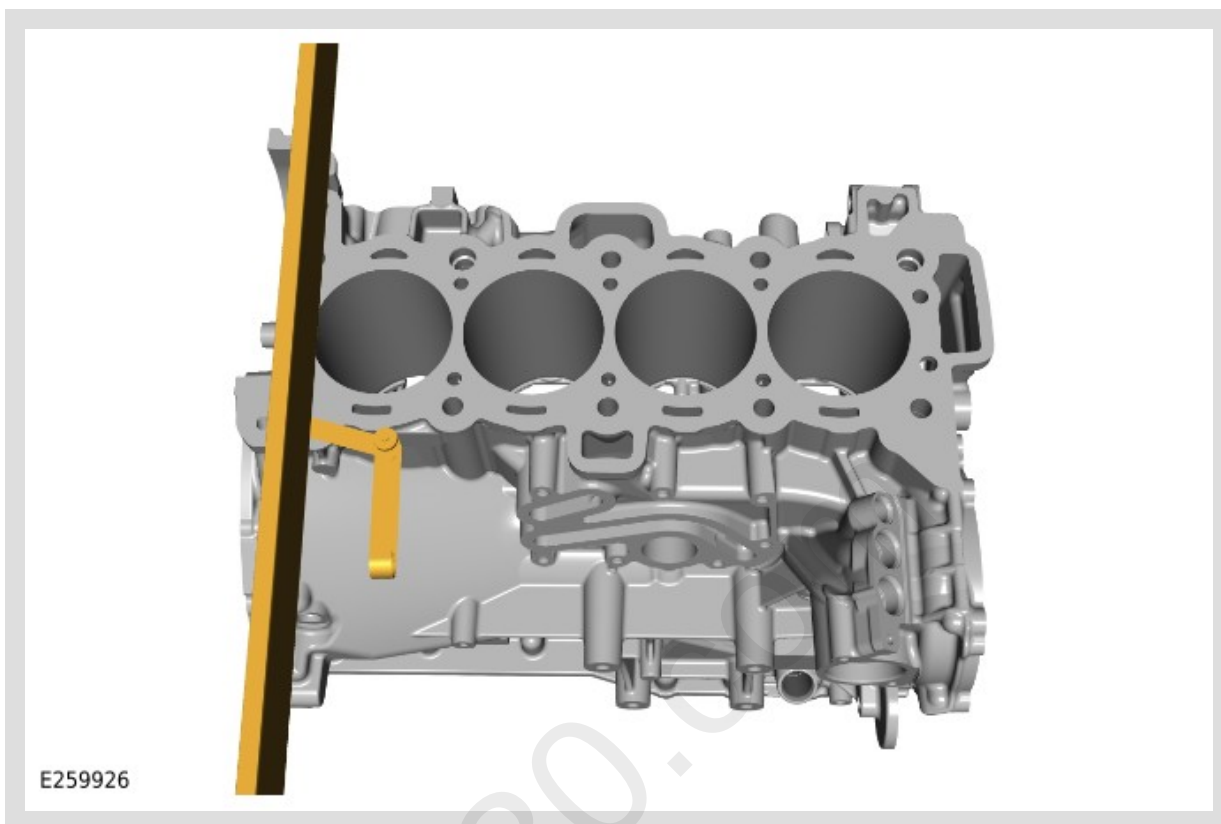


E259927

- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face longitudinally in the areas illustrated.
- Note the maximum value.

△ NOTES:

- INGENIUM I4 2.0L Petrol engines only.
- The measurements must be taken at the section of the cylinder head bolt holes.

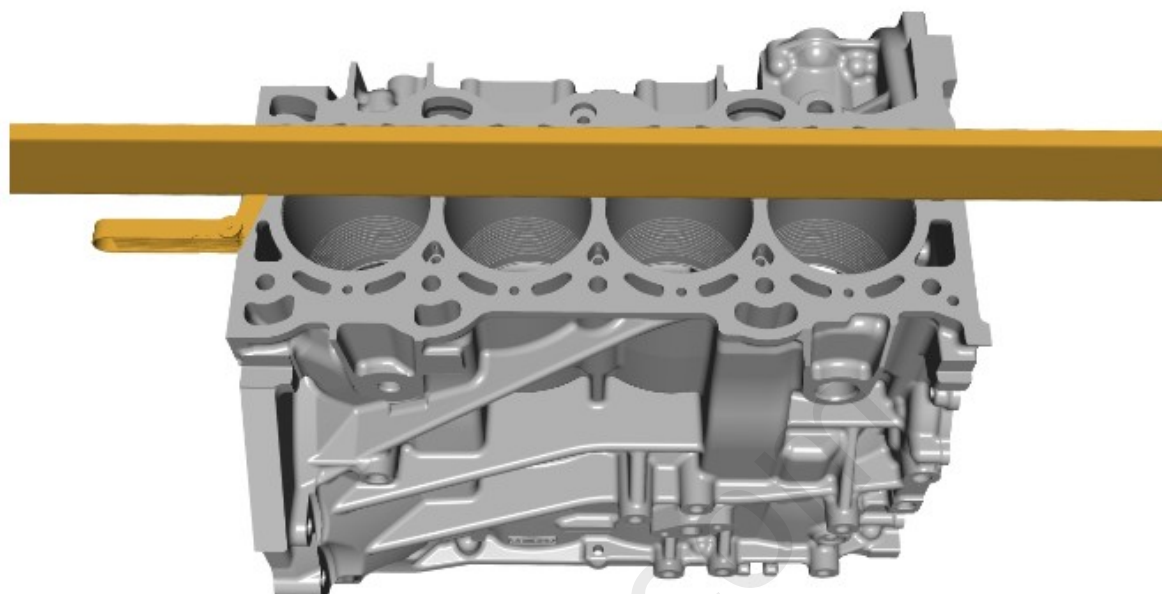


- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face transversely in the areas illustrated.
- Note the maximum value.

3.

 NOTE:

GTDi 2.0L Petrol engines only.

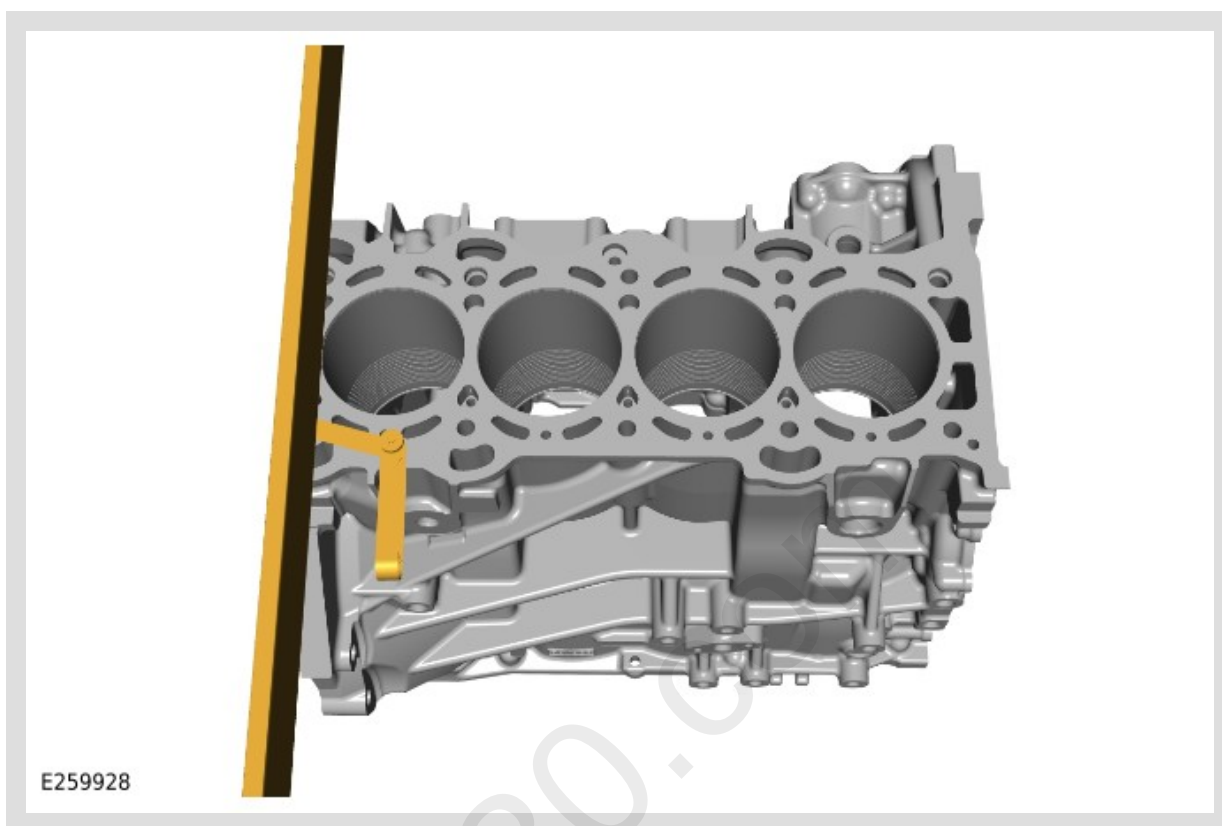


E259929

- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face longitudinally in the areas illustrated.
- Note the maximum value.

△ NOTES:

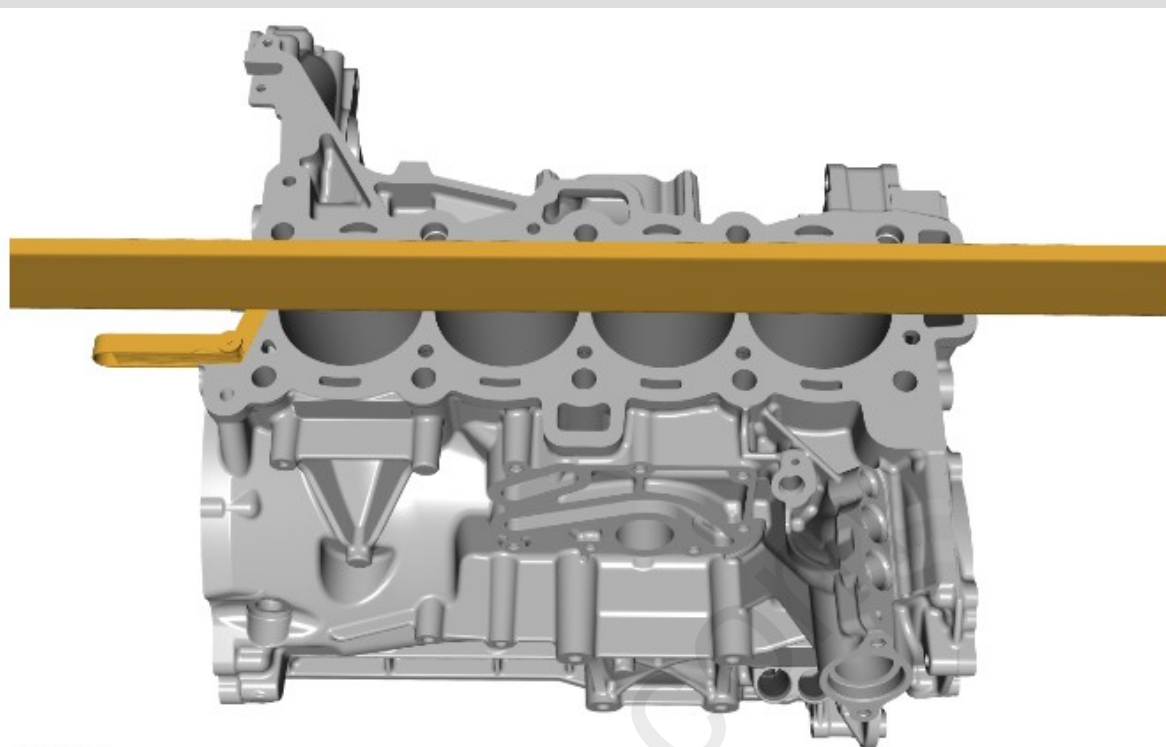
- GTDi 2.0L Petrol engines only.
- The measurements must be taken at the section of the cylinder head bolt holes.



- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face transversely in the areas illustrated.
- Note the maximum value.

 NOTE:

INGENIUM I4 2.0L Diesel engines only.

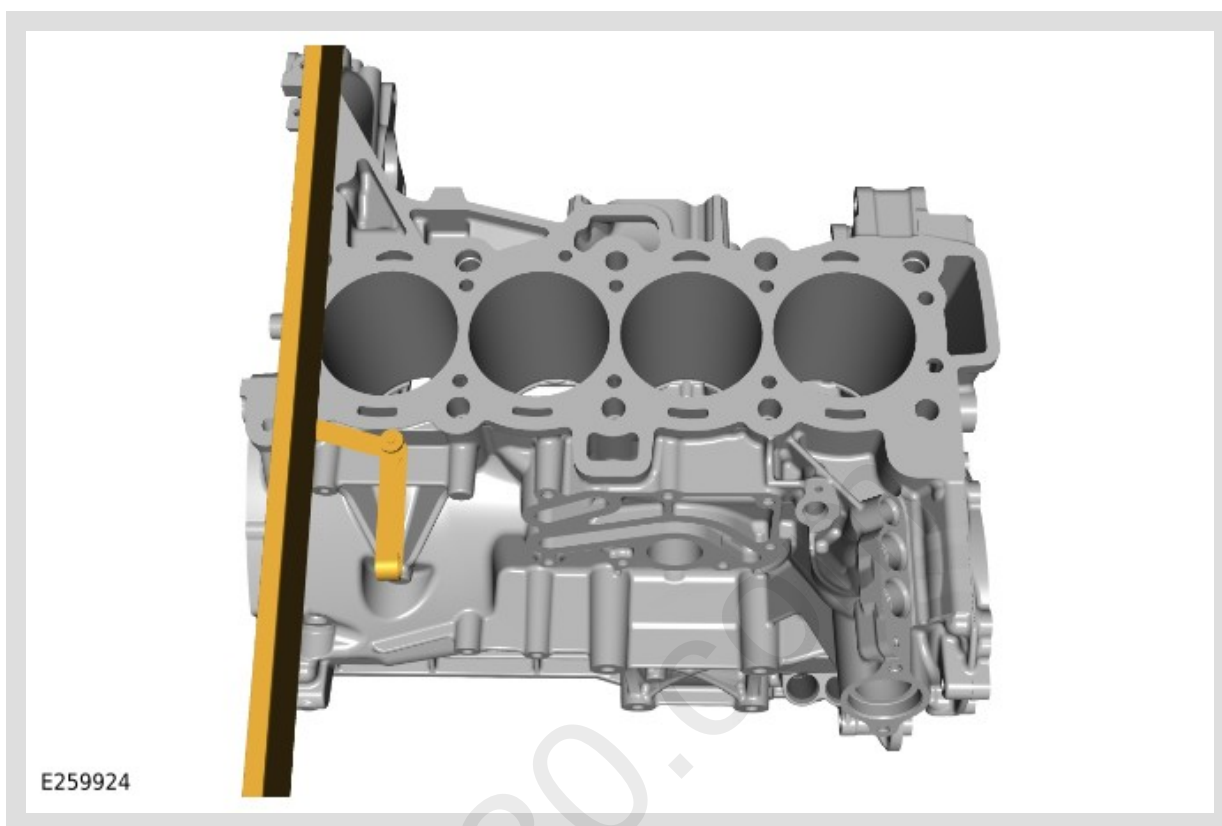


E259925

- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face longitudinally in the areas illustrated.
- Note the maximum value.

 NOTES:

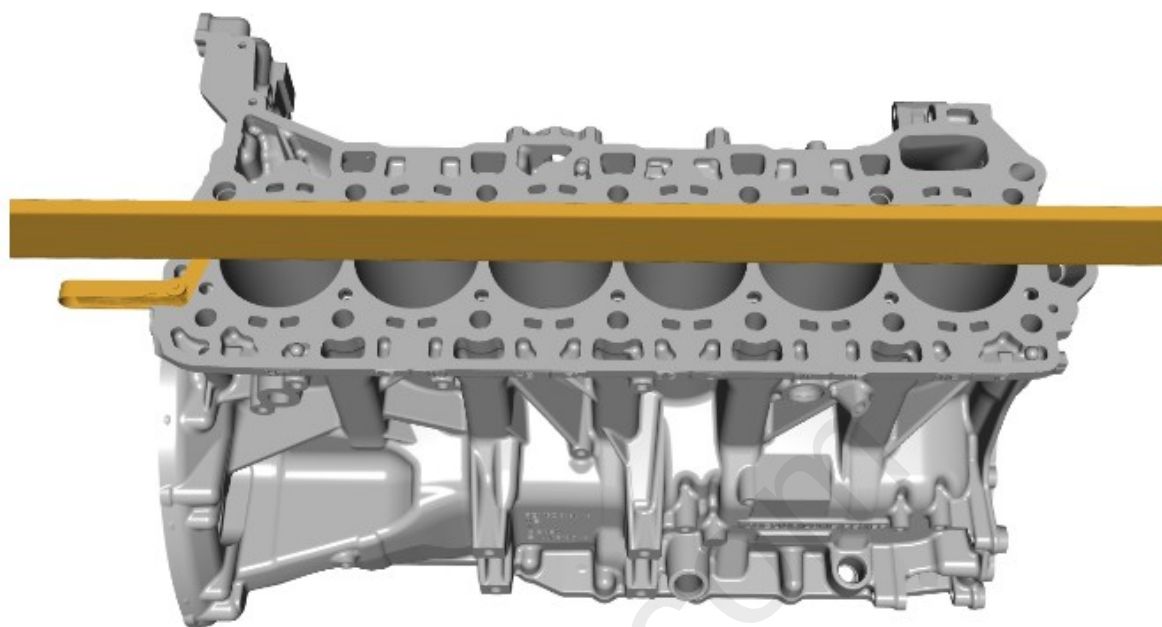
- INGENIUM I4 2.0L Diesel engines only.
- The measurements must be taken at the section of the cylinder head bolt holes.



- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face transversely in the areas illustrated.
- Note the maximum value.

 NOTE:

INGENIUM I6 3.0L Diesel engines only.

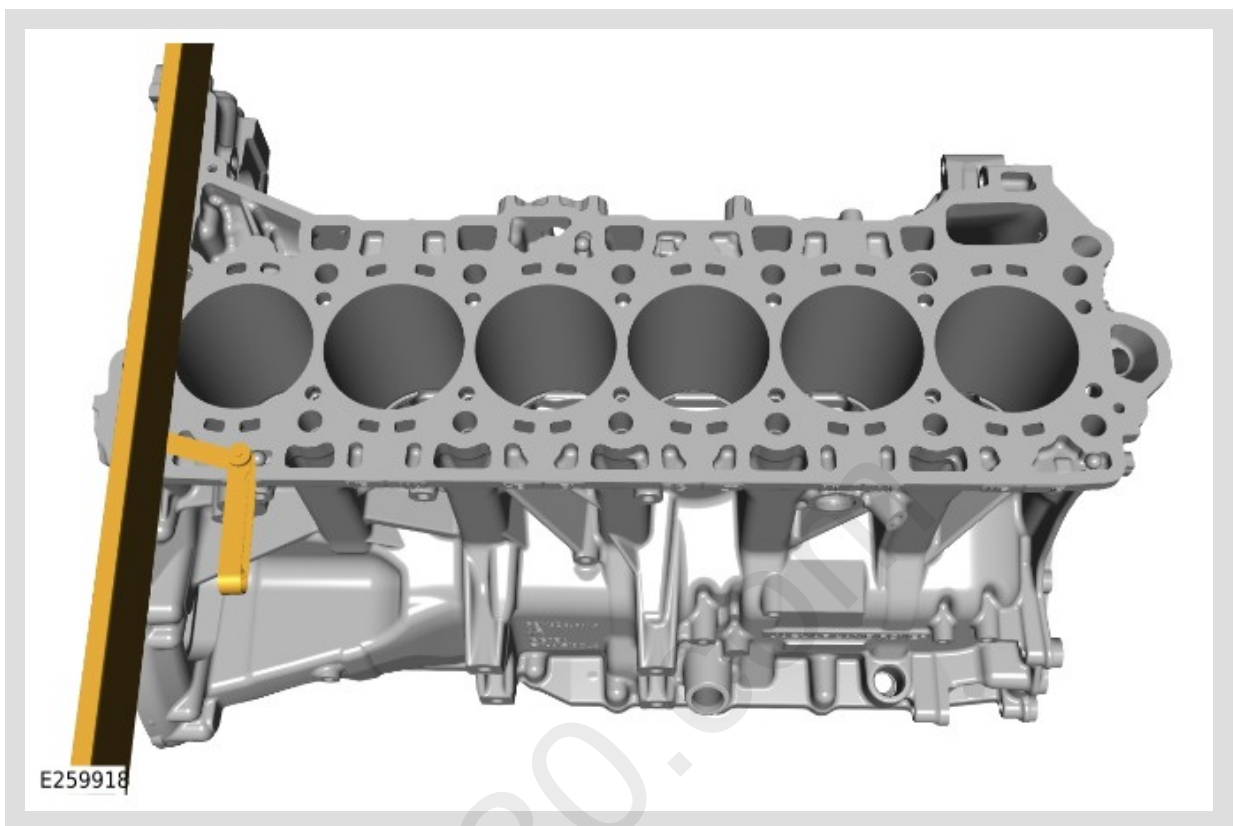


E259919

- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face longitudinally in the areas illustrated.
- Note the maximum value.

△ NOTES:

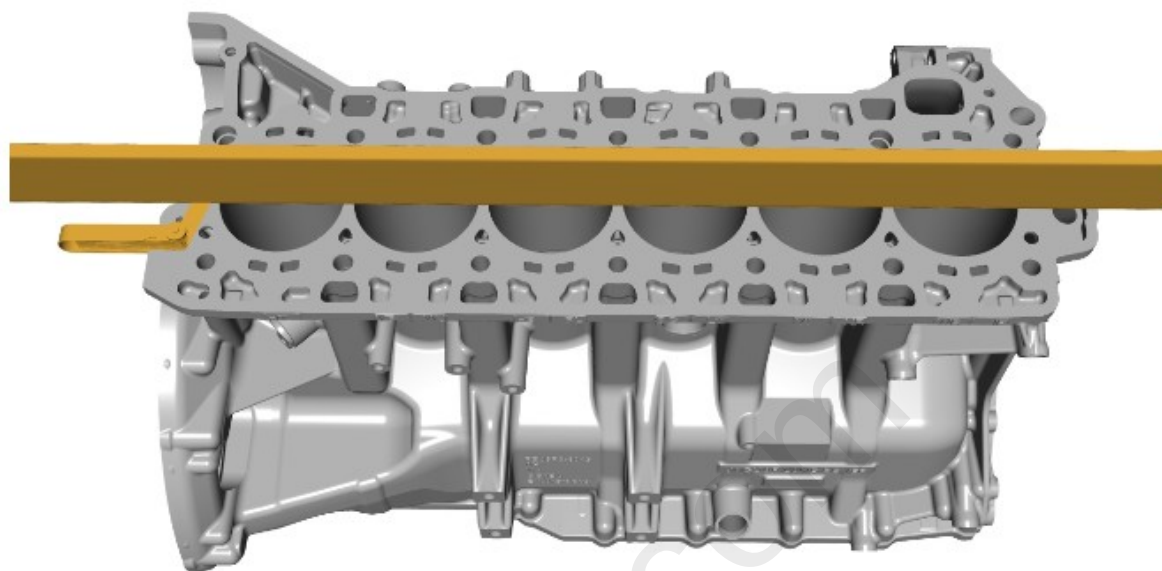
- INGENIUM I6 3.0L Diesel engines only.
- The measurements must be taken at the section of the cylinder head bolt holes.



- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face transversely in the areas illustrated.
- Note the maximum value.

 NOTE:

INGENIUM I6 3.0L Petrol engines only.

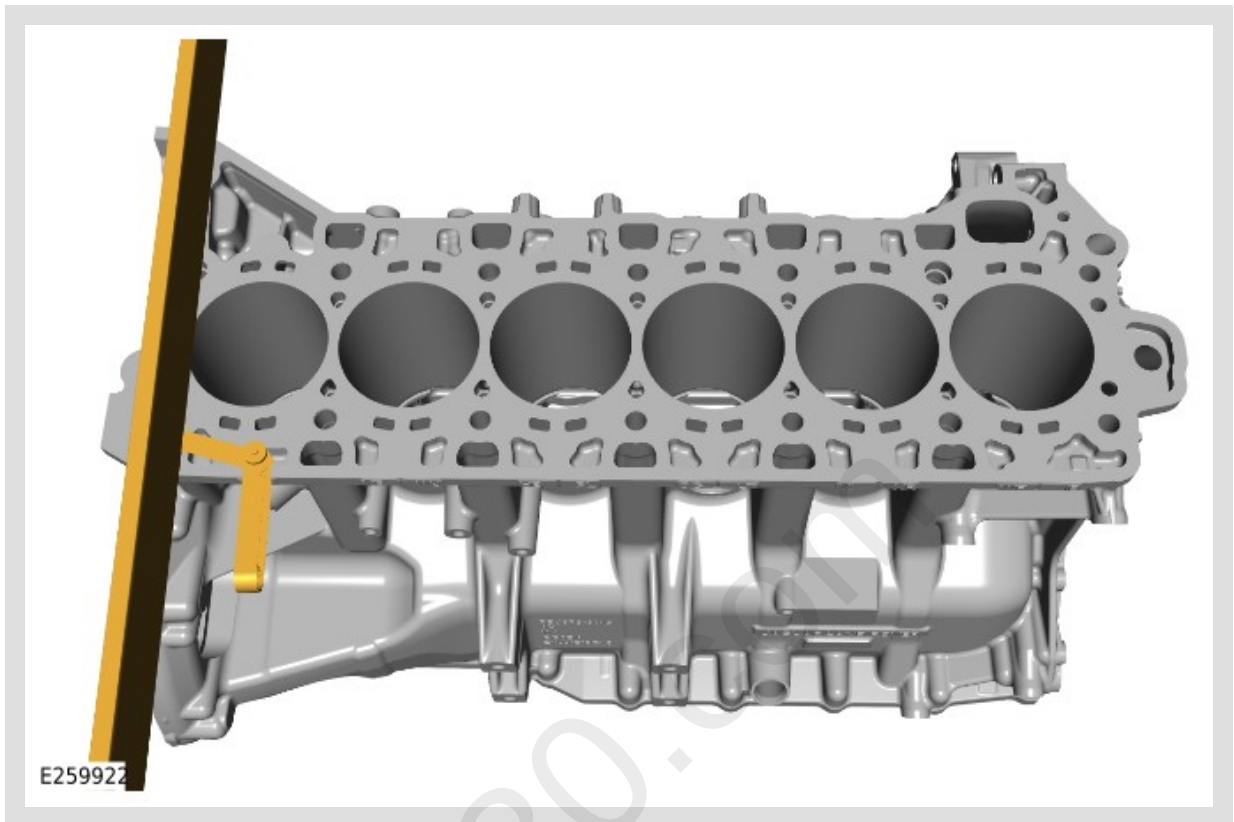


E259923

- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face longitudinally in the areas illustrated.
- Note the maximum value.

 NOTES:

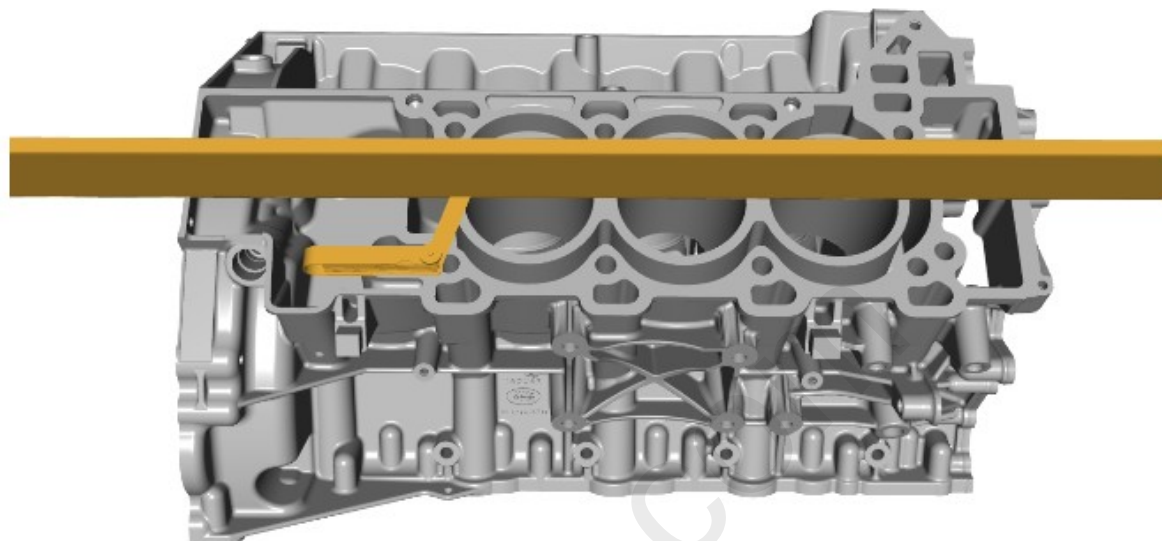
- INGENIUM I6 3.0L Petrol engines only.
- The measurements must be taken at the section of the cylinder head bolt holes.



- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face transversely in the areas illustrated.
- Note the maximum value.

 NOTES:

- V6 S/C 3.0L Petrol engines only.
- Repeat this step for the other side.

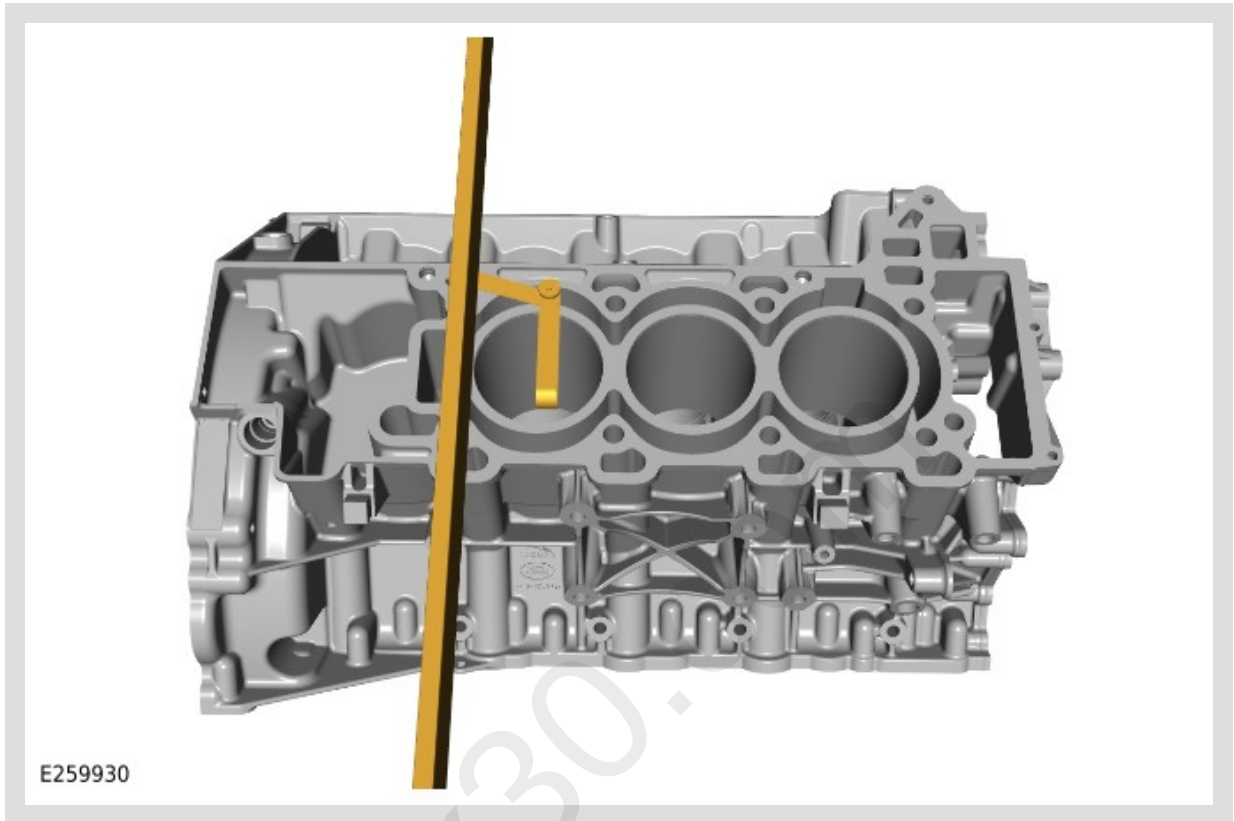


E259931

- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face longitudinally in the areas illustrated.
- Note the maximum value.

 NOTES:

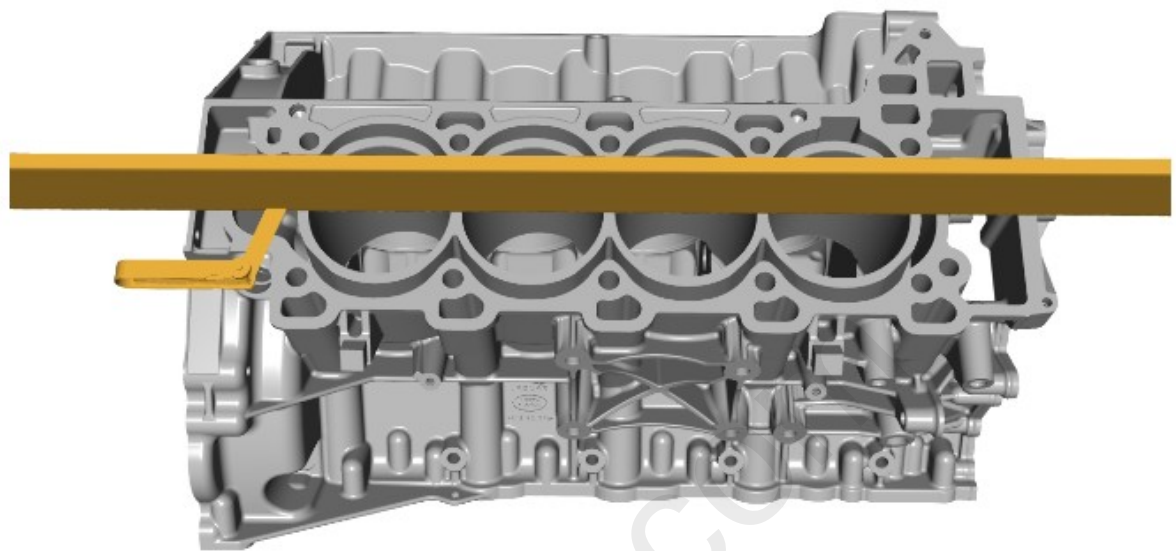
- V6 S/C 3.0L Petrol engines only.
- The measurements must be taken at the section of the cylinder head bolt holes.
- Repeat this step for the other side.



- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face transversely in the areas illustrated.
- Note the maximum value.

 NOTES:

- V8 S/C 5.0L Petrol engines only.
- Repeat this step for the other side.

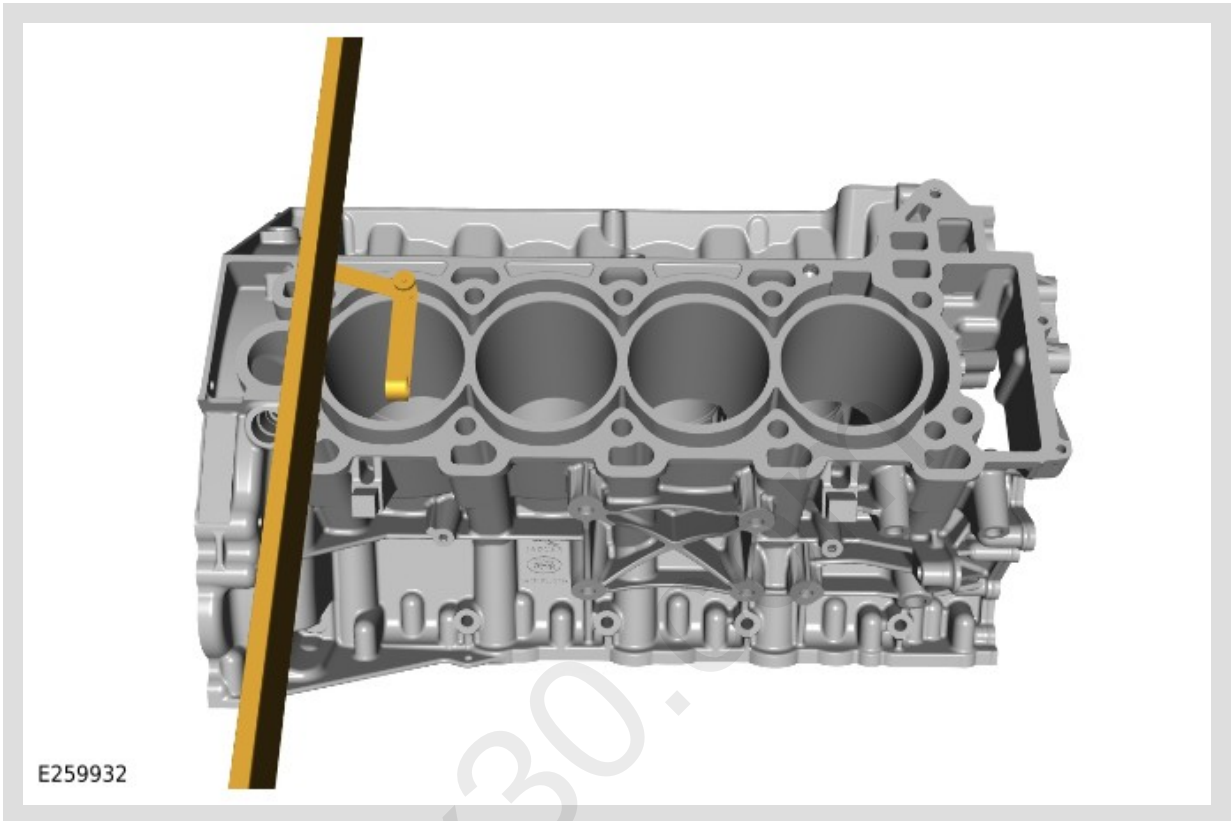


E259933

- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face longitudinally in the areas illustrated.
- Note the maximum value.

 NOTES:

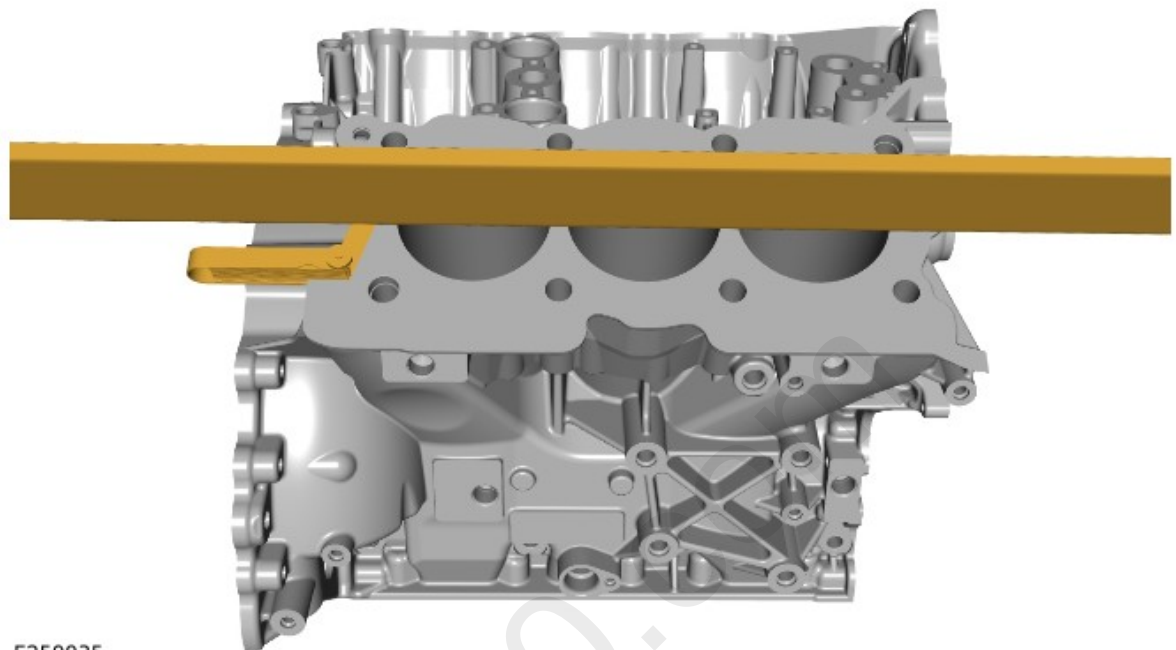
- V8 S/C 5.0L Petrol engines only.
- The measurements must be taken at the section of the cylinder head bolt holes.
- Repeat this step for the other side.



- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face transversely in the areas illustrated.
- Note the maximum value.

 NOTES:

- TDV6 3.0L Diesel engines only.
- Repeat this step for the other side.

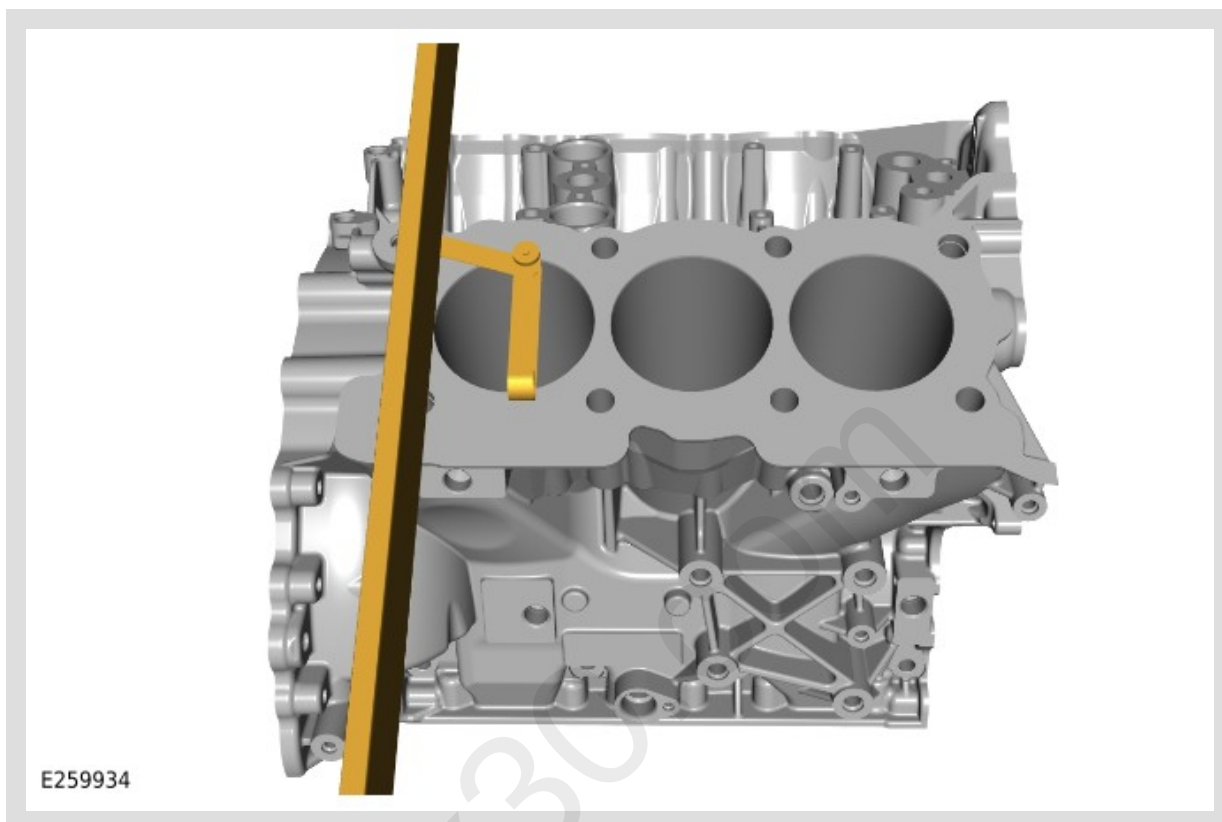


E259935

- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face longitudinally in the areas illustrated.
- Note the maximum value.

 NOTES:

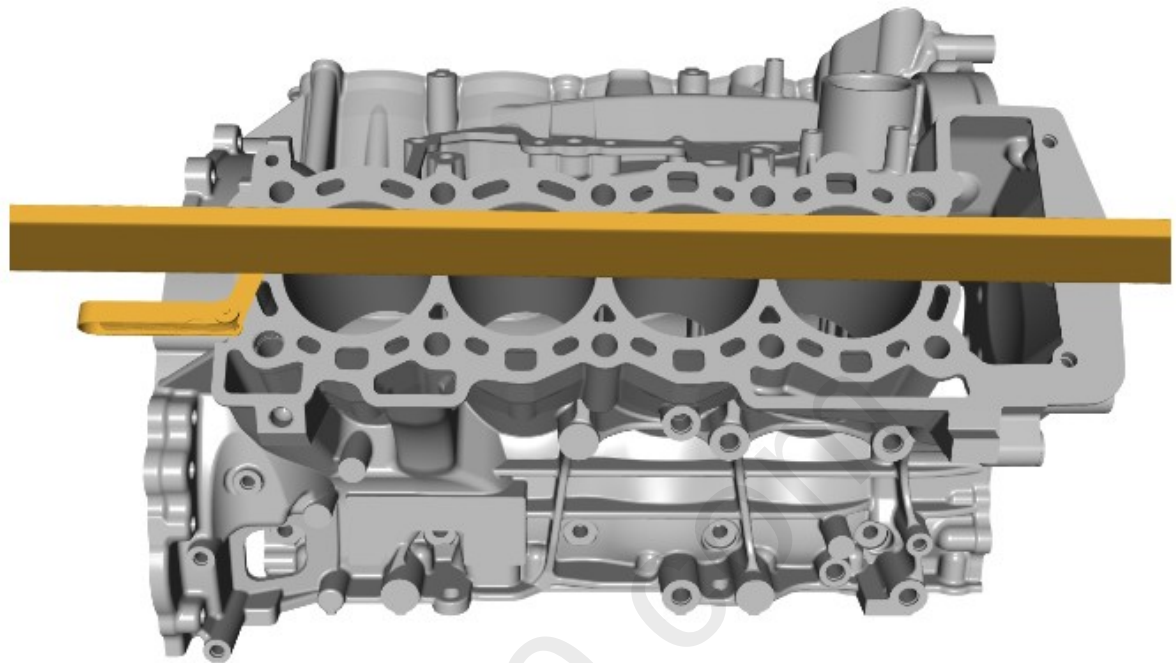
- TDV6 3.0L Diesel engines only.
- The measurements must be taken at the section of the cylinder head bolt holes.
- Repeat this step for the other side.



- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face transversely in the areas illustrated.
- Note the maximum value.

 NOTES:

- TDV8 4.4L Diesel engines only.
- Repeat this step for the other side.

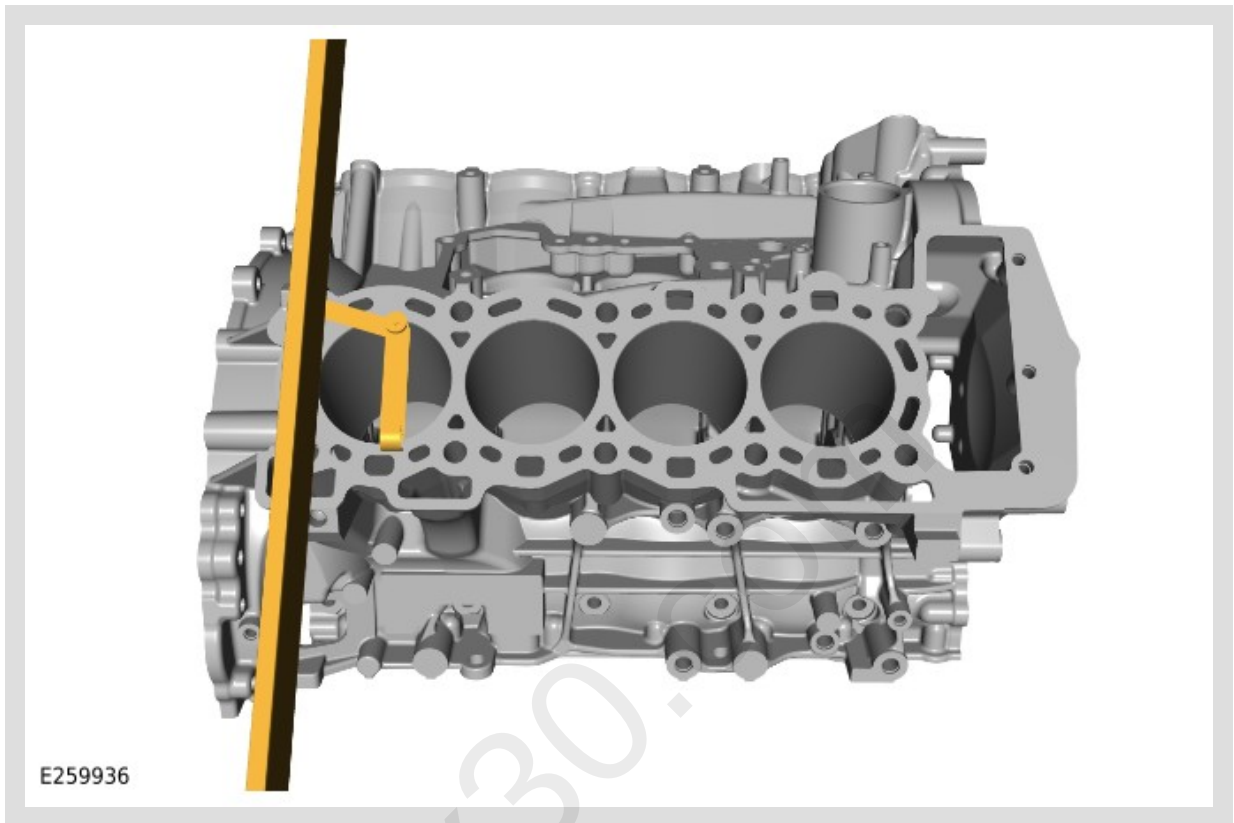


E259937

- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face longitudinally in the areas illustrated.
- Note the maximum value.

 NOTES:

- TDV8 4.4L Diesel engines only.
- The measurements must be taken at the section of the cylinder head bolt holes.
- Repeat this step for the other side.



- Using a suitable metallic straight edge and feeler gauge, measure the cylinder block face transversely in the areas illustrated.
- Note the maximum value.

If the cylinder block distortion measurements exceed the maximum value of 0.15 mm (0.006 in) the cylinder block must be replaced.