

GENERAL DATA

Valves	
Valve head diameter: ⇒ Inlet ⇒ Exhaust	35.0 mm (1.411 in) 30.5 mm (1.200 in)
Stem diameter - Inlet valves: ⇒ Standard ⇒ Service limit ⇒ 1st oversize ⇒ Service limit ⇒ 2nd oversize ⇒ Service limit ⇒ Exhaust valves ⇒ Standard ⇒ Service limit ⇒ 1st oversize ⇒ Service limit ⇒ 2nd oversize ⇒ Service limit	6.0 mm (0.24 in) 5.96 mm (0.234 in) 6.1 mm (0.240 in) 6.06 mm (0.238 in) 6.2 mm (0.244 in) 6.16 mm (0.242 in) 6.0 mm (0.24 in) 5.94 mm (0.23 in) 6.1 mm (0.240 in) 6.04 mm (0.237 in) 6.2 mm (0.244 in) 6.14 mm (0.242 in)
Valve face angle - Inlet and exhaust	45°
Lubrication	
Type	Wet sump, pressure fed
Pump type	Crankshaft driven eccentric rotor
Oil filter	Disposable element
Minimum oil pressure at idle Oil pressure at 3500 rev/min Maximum regulated oil pressure	0.5 bar (7.0 lbf.in ²) Not less than 3.0 bar (43.5 lbf.in ²) 4.2 ± 0.5 bar (61 ± 7.0 lbf.in ²)
Cylinder block	
Cylinder bore: ⇒ Standard Cylinder bore: ⇒ Service limit	92.000 mm (3.622 in) 91.90 mm (3.618 in)
Permitted bore concentricity	92.000 ± 0.007 mm (3.622 ± 0.0003 in)
Crankshaft	
Main bearing journal diameter: ⇒ Standard - Yellow ⇒ Standard - Green ⇒ Standard - White ⇒ 1st undersize - Yellow ⇒ 1st undersize - Green ⇒ 1st undersize - White ⇒ 2nd undersize - Yellow ⇒ 2nd undersize - Green ⇒ 2nd undersize - White ⇒ 3rd undersize - Yellow ⇒ 3rd undersize - Green ⇒ 3rd undersize - White	69.984 + 0.006 mm (2.755 + 0.0002 in) 69.977 + 0.006 mm (2.754 + 0.0002 in) 69.971 + 0.005 mm (2.753 + 0.0001 in) 69.734 + 0.006 mm (2.746 + 0.0002 in) 69.727 + 0.006 mm (2.745 + 0.0002 in) 69.721 + 0.005 mm (2.744 + 0.0001 in) 69.484 + 0.006 mm (2.736 + 0.0002 in) 69.477 + 0.006 mm (2.7353 + 0.0002 in) 69.471 + 0.005 mm (2.735 + 0.0001 in) 69.234 + 0.006 mm (2.726 + 0.0002 in) 69.227 + 0.006 mm (2.725 + 0.0002 in) 69.221 + 0.005 mm (2.724 + 0.0001 in)
Clearance in main bearings	0.020 to 0.046 mm (0.0008 to 0.002 in)
End float	0.085 to 0.257 mm (0.0033 to 0.010 in)
Maximum run-out - measured at centre main bearing journal, with crankshaft supported on front and rear main bearing journals	0.15 mm (0.006 in)
Thrust bearing widths	32.0 to 32.6 mm (1.260 to 1.283 in) in increments of 0.2 mm (0.008 in)
Connecting Rods	
Maximum permitted weight deviation between rods (less bearing shells)	± 3.0 grammes (0.10 ozs)
Small end bush inside diameter: ⇒ Nominal ⇒ Service limit	22.0 mm (0.866 in) 22.012 mm (0.867 in)



Engine oil pressure check

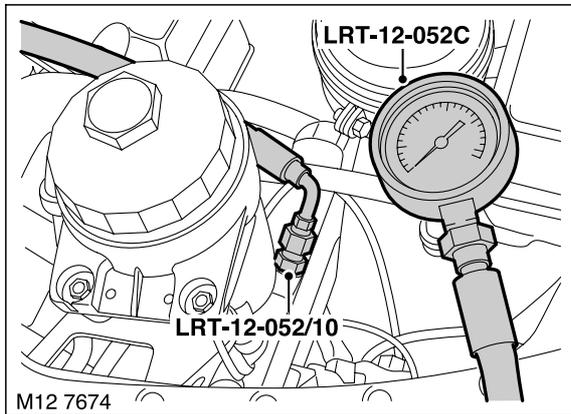
🔑 12.90.09.01

Before disconnecting the battery, ensure all text and cautions in the battery disconnection section are observed.

👉 **GENERAL INFORMATION, Electrical Precautions.**

Check

1. Disconnect battery earth lead.
2. Remove oil pressure switch.
👉 **Engine - V8, REPAIRS, Switch - oil pressure.**



3. Fit **LRT-12-052/10** to oil filter housing and fit **LRT-12-052C** to **LRT-12-052/10**, tighten unions.
4. Check engine oil level, top-up if necessary.
5. Connect battery earth lead.
6. Start and run engine until normal operating temperature is reached.
7. Note oil pressure readings with the engine running at idle and at 3500 rev/min.
👉 **GENERAL DATA, Engine - V8.**
8. Switch off engine.
9. Disconnect battery earth lead.
10. Remove **LRT-12-052C**.
11. Remove **LRT-12-052/10**.
12. Clean oil spillage.
13. Fit oil pressure switch.
👉 **Engine - V8, REPAIRS, Switch - oil pressure.**
14. Check engine oil level, top-up if necessary.
15. Connect battery earth lead.