

Reference	SSM76269
Models	Defender / L663 Discovery / L462 New Range Rover / L460 New Range Rover Sport / L461 Range Rover Velar / L560
Title	Turbocharger Coolant Inlet/or Outlet Pipe Leak - Ingenium I6 3.0L Petrol
Category	Engine
Last modified	24-Jun-2025 00:00:00
Symptom	402000 Cooling System Concerns
Attachments	3000 cc, INGENIUM PETROL - Turbocharger Cooling Inlet and Outlet Pipes.pdf (3000 cc, INGENIUM PETROL - Turbocharger Cooling Inlet and Outlet Pipes.pdf)
Content	<p>Model / Model Year / Derivative Defender / 24MY Onwards / 3.0 AJ20 P6H Discovery / 24MY onwards / 3.0 AJ20 P6H Range Rover / 24MY Onwards / 3.0 AJ20 P6H Range Rover Sport / 24MY Onwards / 3.0 AJ20 P6H Range Rover Velar / 24MY onwards / 3.0 AJ20 P6H</p> <p>Situation:</p> <p>JLR Engineering investigations have identified instances where the turbocharger cooling inlet/or outlet pipe is leaking.</p> <p>Cause:</p> <p>Pinched, split or deformed O-ring on the cooling pipe(s).</p> <p>Action:</p>

Refer to the service request below.

Service Request:

In the event that a coolant leak is suspected from the turbocharger cooling inlet/or outlet pipe O-ring seals, complete the following steps:

1. Connect the approved JLR Battery Support Unit (BSU)
2. Connect the approved JLR diagnostic equipment
3. Select Fault and Breakdown and start a new Workflow
4. Enter the following symptoms:
 - Powertrain > Engine > Fluid Leaks > Coolant Leak
5. The following Test Plan will be offered:
 - Turbocharger Coolant Leakage - Test
6. Complete the Test Plan, following any on-screen instructions
7. If a coolant leak from the turbocharger cooling inlet/or outlet pipe connection is found, replace the O-ring seals as per TOPIx Workshop Manual - 303-04: Fuel Charging and Controls - Removal and Installation – Turbocharger Cooling Inlet and Outlet Pipes. DO NOT replace the turbocharger cooling inlet and outlet pipe(s) unless there is visible damage to the pipes. NOTE: prior to removing the pipe(s) take clear photographs and/or a video file of the pipes as installed on the engine and surrounding area of the leak. Remove the pipes and photograph the front and back of the fixing bracket, the pipe entrance and the damaged O-ring(s), example pictures can be found within the attached file. The affected O-ring(s) must be retained so that a Priority Return Request (PRR) can be raised to expediate the return to JLR engineering.
8. Raise an Electronic Product Quality Report (EPQR), which must include the following:
 - Reference PTS_100
 - Reference P397036
 - Reference SSM 76269
 - Photographs/video file attached as detailed/requested in step 7 of the service request.
 - Confirmation the O-ring(s) are available for collection

(Ref 000397036 / 4130)

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