

<b>S-TYPE</b>	Date <b>01/2001</b>	<b>S307-05</b>
<b>TECHNICAL BULLETIN</b>		

Subject <b>SERVICE FIX FOR S-TYPE TRANSMISSION COOLER PIPES</b>	Model S-TYPE Year 2000 MY VIN L00600 - L59400
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**307 – Transmission**

**ISSUE: S307-05 SERVICE FIX FOR S-TYPE TRANSMISSION COOLER PIPES**

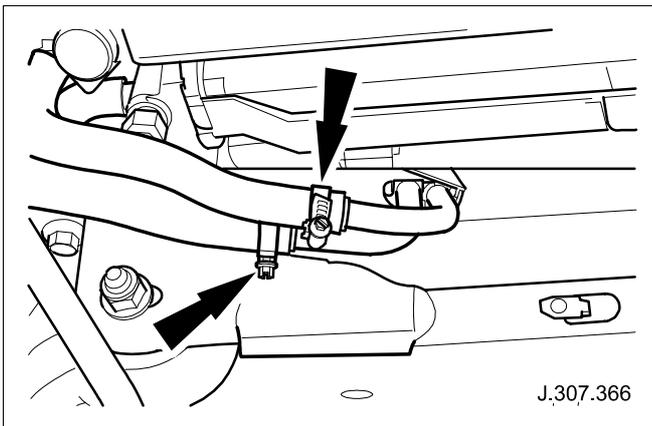
In the event of customer complaints of fluid leaking from the transmission cooler pipes, a service fix has been implemented to cure the concern.

**ACTION**

Vehicles within the above VIN range were produced with only one band clamp fitted to the transmission cooler pipes, and may under certain operating conditions leak transmission fluid. The following Workshop Procedure can be followed to remedy the concern:

**WORKSHOP PROCEDURE**

- 1 Raise vehicle on 'Twin-post' ramp.
- 2 Remove radiator splashguard. (See Workshop Manual – JTIS CD ROM, Section 303-03)
- 3 Undo band clamps on transmission cooler pipes (rubber to metal pipe connection).



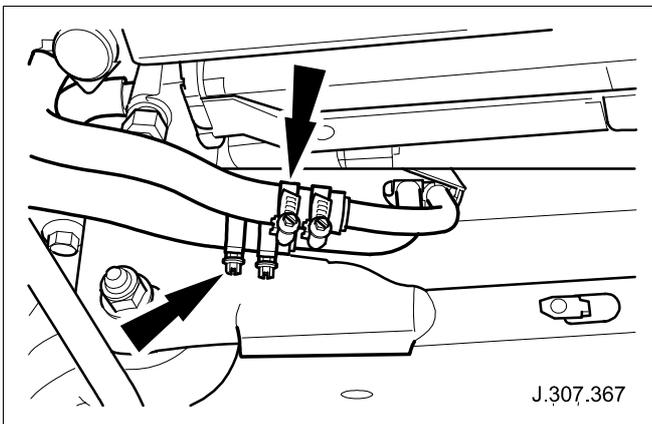
**Fig. 1**

- 4 Reposition band clamps to end of rubber hose. (See Fig. 1)

- 5 Fully tighten band clamps to 5Nm.

**Note: Ensure worm drive does not chafe rubber hose.**

- 6 Place new band clamps to front and fully undo.



**Fig. 2**

- 7 Reposition band clamps over cooler pipes and place alongside existing clamps. (See Fig. 2)

- 8 Fully tighten band clamps to 5Nm.

**Note: Ensure worm drive does not chafe rubber hose.**

- 9 Clean any transmission fluid from surrounding area.
- 10 Re-install radiator splashguard. (See Workshop Manual – JTIS CD ROM, Section 303-03)
- 11 Lower the vehicle.
- 12 Ensure the PDU is connected to the base station and that the latest PDU CD ROM (JTP 627/10) is installed in the CD drive.

**Measuring the transmission fluid temperature:**

- 13 Switch on the PDU and select 'Diagnostics'.
- 14 Enter the VIN and other vehicle details.
- 15 Select 'Toolbox'.
- 16 From the 'Toolbox' menu select 'Powertrain'.
- 17 Connect the Multi Protocol Adaptor (MPA) and Download Cable to the PDU and base station and allow PDU to load.
- 18 Select 'Datalogger' from the menu.
- 19 Disconnect the PDU from the base station and connect to the vehicle.
- 20 With the J-Gate shift selector in the Park position (P), select 'Enter' to start the 'Datalogger'.
- 21 Select the Transmission Oil Temperature 2 (TOT2) from the main menu.
- 22 The reading tolerance is from 80°F (26.5°C) to 120°F (50.5°C), nominally 100°F (38°C). If the value is greater than 120°F (50.5°C), the vehicle **MUST** be left to cool down. If the value is less than 80°F (26.5°C), then the vehicle must be driven slowly for 500 meters at a time, checking that the temperature is within the range specified.

**Note: The target temperature when putting the vehicle on the ramp is 90°F (32°C).**

- 23 Start the engine and ensure the transmission fluid temperature is still within tolerance.
- 24 With the engine running and the footbrake applied, move the J-Gate shift selector through 'P-R N-D-4-3-2' and back to 'P' ensuring that 'R' and 'D' have been selected on both occasions.
- 25 Select 'P' with the engine idling.
- 26 Raise the vehicle with the engine idling and carry out the transmission fluid level check (below).

**Transmission fluid level check:**

- 27 Remove the extension housing fill plug and the transmission fluid level plug.
- 28 Place a suitable 1-liter container below the fluid level plug to retrieve any excess fluid.
- 29 If the vehicle is under filled only a few drips will occur.
- 30 Add transmission fluid through the extension housing fill plug. Add no more than 250 ml at a time, until the fluid flows in a continuous stream.
- 31 Install the transmission fluid level plug as soon as the stream starts to break-up into drips.
- 32 If the vehicle is slightly overfilled, fluid should flow in a continuous red stream.
- 33 Install the transmission fluid level plug as soon as the stream starts to break-up into drips.

**Note: If more than 250 ml of fluid is retrieved, go to the excessive overfill procedure (below).**

- 34 If the vehicle is excessively overfilled, the fluid will appear almost pink rather than deep red (as it flows), and more than 250 ml of fluid will be collected in the container.
- 35 When all of the excess fluid has drained, install the fluid level plug and extension housing fill plug.

- 36 Switch the engine off for 30 minutes. By this time the fluid in the container should be a deep red color. If not, wait for another 30 minutes.

**Note: If after waiting 30/60 minutes the transmission fluid temperature has cooled to below 80°F (26.5°C), restart the engine and wait for it to reach the target temperature 90°F (32°C).**

- 37 Restart the engine (if required) then remove the fluid level plug and extension housing fill plug.
- 38 Add transmission fluid through the extension housing fill plug. Add no more than 250 ml at a time, until the fluid flows in a continuous stream.
- 39 Install the transmission fluid level plug as soon as the stream starts to break-up into drips.
- 40 Install the extension housing fill plug.
- 41 Clean any transmission fluid from the surrounding area.
- 42 Lower the vehicle.
- 43 Switch off the engine.
- 44 Remove the PDU.

#### PARTS INFORMATION

Description	Part Number
Band Clamp	XR8 9571

#### WARRANTY INFORMATION

SRO	Labor Time Allowance
44-91-24	0.90 Hours