



**S-TYPE**

DATE 12/00  
Amended 09/01

**S600-S474**

**SERVICE**

**TECHNICAL BULLETIN**

**Part-Load Engine Breather – Partial Blockage  
of Restrictor – Scheduled Cleaning –  
Service Action S474**

MODEL 2000-01 MY  
S-TYPE  
VIN L00001-L93444

Remove and destroy Bulletin S600-S474, dated 12/00.  
Replace with this Bulletin.  
Revisions are marked with a bar and in **bold text**.

**Issue:**

Jaguar vehicles with the V8 engine, can experience partial blockage of the restrictor in the engine part-load breather during normal service. This blockage would restrict the correct operation of the engine breather system.

Until further notice, Jaguar Cars is introducing a routine cleaning procedure for this restrictor. Initially this procedure should be performed at the first service opportunity on any S-TYPE vehicle, that has already covered more than 10,000 miles (16,000 Km). This cleaning procedure will then be performed at scheduled maintenance intervals of 10,000 miles (16,000 Km). The frequency of this cleaning procedure is listed below.

**PRESENT  
ODOMETER  
READING**

Under 10,000 miles  
(16,000 Km)  
Over 10,000 miles  
(16,000 Km)

**FIRST  
CLEANING  
PROCEDURE**

10,000 mile Routine Service  
(16,000 Km)  
First Service Opportunity

**SUBSEQUENT  
CLEANING  
PROCEDURES**

Every 10,000 mile scheduled  
maintenance there after (16,000 Km)  
Every 10,000 mile scheduled  
maintenance there after (16,000 Km)

**Action:**

Ensure that this routine cleaning procedure is put into effect on all Jaguar vehicles **within the above VIN ranges** equipped with V8 engines.

Once the warranty expires on a vehicle covered by this service action, the cleaning procedure should continue to be included in all scheduled maintenance visits at multiples of 16,000 Km (10,000 miles).

PROCEDURE

1. Open the hood. Cover the fenders with protective fender covers.
2. On normally aspirated engines, remove the engine cover from the left cylinder bank.
3. Remove the fuel temperature sensor from the fuel rail for access.



#### PRESSING CLIP TO DISCONNECT BREATHER LINE

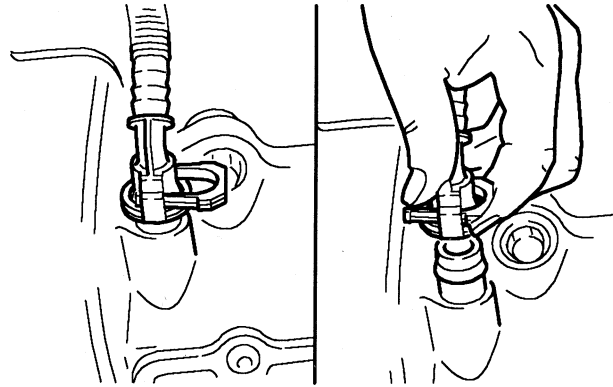


ILLUSTRATION 1

4. Depress the retaining clip (Illustration 1) of the connector of the part-load breather line, allowing the line connector to be disconnected from the breather stub on the left camshaft cover.
5. Insert a  $3/32$ " (2.5 mm) diameter drill bit in a hand-held pin chuck such as Snap-on Tools® Part No. YA 806 (Illustration 2). **Verify that the drill bit does not exceed  $3/32$ " (2.5 mm) diameter.**

#### USING DRILL BIT TO CLEAN RESTRICTOR

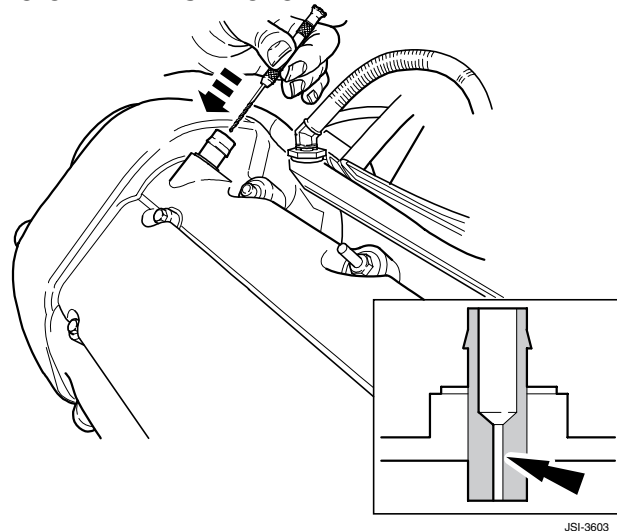


ILLUSTRATION 2

**⚠ Caution: Do not use a power drill under any circumstances. The drill bit must always be turned by hand only. Using a power drill can damage the restrictor or the breather stub which needs to provide a good seal to the connector of the flexible breather line.**

**⚠ Caution: Do not allow the diameter of the restrictor to increase. Use a micrometer to verify that the diameter of the drill bit does not exceed 0.098 inch (2.5 mm.).**

6. Carefully push the drill tip into the breather stub and through the restricter while slowly rotating the drill to clear any deposits that may have accumulated inside the restricter. The top end of the restricter is approximately 30 mm below the tip of the line stub and extends for an additional 5 mm into the camshaft cover.

As a result, the tip of the drill bit must penetrate into the stub at least 40 mm to ensure penetration through the entire length of the restricter. No damage will occur if the tip of the drill bit penetrates 45 mm.

If available, use a 'long flute' type drill bit. - The additional length of flutes and shank will provide more clearance from surrounding components to ease rotation of the pin chuck and drill.

7. When the drill can be turned freely, all deposits have been cleared from the restricter.
8. Remove the drill bit from the restricter and line stub.
9. Reconnect the breather line connector to the breather stub, checking first that the two O-rings are in place in the connector. Engage the connector retaining clip.
10. Reinstall the fuel temperature sensor.
11. Reinstall the engine cover on the left bank, ensuring that all fasteners are fully engaged.
12. On all vehicles, remove the fender covers and close the hood.

**Note: Always use a pin chuck to hold the drill bit securely. The risk of using a drill bit held only in the fingers is that if the drill bit is allowed to slip through oily fingers completely into the breather stub and restricter, it would be necessary to remove the camshaft cover to retrieve the drill bit.**

**Tools:**

A suitable pin chuck (pin vise) for this application is available as Snap-on Tools® Part No. YA 806

**Warranty Information:**

Service Action S474

<u>VEHICLE</u>	<u>SUMMARY CODE</u>	<u>R.O. NUMBER</u>	<u>DESCRIPTION ALLOWANCE</u>	<u>TIME</u>
S-TYPE 4.0L 2000 MY-ON VIN L00600- <b>L93444</b> Model codes 6300, 6310	ZP	12.91.96	Clear restrictor in the part load breather	0.15 hrs.