



**SERVICE  
ENGINEERING  
BULLETIN**

# **SB2191.1**

## **Valve Breakages VAG 1.8 20V Petrol & 1.9TDI Diesel Engines**

### **CAUSE:**

Over extension / "pump-up" of hydraulic lifters.  
Incorrect seating of valve spring to cylinder head.

### **SYMPTOMS:**

Valve breakage shortly after cylinder head rebuild, during first start-up or during test run.

Photo 1 : Probable cause - hydraulic lifter.

Photo 2 : Probable cause - incorrect location of valve spring.

### **SOLUTION / REMEDY:**

1. When fitting new valves, if possible fit new hydraulic lifters.
2. Ensure all components are pristine clean.
3. Apply lubricant to all hydraulic lifters.
4. Take extreme care to seat all valve springs correctly in the recess of the cylinder head.
5. Renew engine oil and oil filter.

### **BEST PRACTICE:**

Plan to complete the installation by the end of the day in order to leave the engine overnight before starting for the first time next day.

Before starting, carefully crank TWO complete engine revolutions by hand to ensure there is no valve to piston contact.

Failure to adhere to this procedure can result in valve tip and head detachment.

Our advice is to consider this procedure for all engines with hydraulic lifters.

**Photo 1**



**Photo 2**

