

## 45 - ANTI-LOCK BRAKE SYSTEM

### Notes for repair work on ABS

**CAUTION: The Anti-lock brake system is generally maintenance-free.**

**Testing, assembly, and repair work may only be performed by qualified personnel.**

**By not observing the points described in the article, the system can be damaged and vehicle safety could be compromised.**

- Before performing repair work on the Anti-lock brake system, determine the cause of the malfunction using On-Board Diagnostics (OBD).
- When installing a new hydraulic control unit, coding must be checked Vehicle diagnosis, test, and information system VAS 5051.
- Switch ignition off before installation work. On vehicles with coded radio unit, determine code and disconnect battery Ground (GND) strap.
- When working with brake fluid, observe relevant safety precautions and notes --> **Brake fluid**.
- With all work that requires hydraulic system to be opened, brake system should be bled (e.g. with Brake Filler/Bleeder Unit VAS 5234) --> **Pressure leak test**. High and low pressure testing should also be performed on brake system --> **High and low pressure testing**
- During final road test, ensure that an ABS-controlled braking is performed at least one time (pulsing must be felt in brake pedal). See Vehicle Diagnosis, Testing and Information System VAS 5051
- Absolute cleanliness is required when working on the Anti-lock brake system, it is not permitted to use any products which contain mineral oil, such as oils, greases etc.
- Thoroughly clean all unions and adjacent areas before loosening. Do not use aggressive cleaning agents such as brake cleaner, fuel, thinners or similar chemicals.
- Place parts that have been removed on a clean surface and cover.
- Carefully cover over opened components or seal, if repairs are not carried out immediately. (Sealing plugs, use repair kit 1 H0 698 311 A)
- Only use lint-free cloths.
- Only unpack replacement parts immediately prior to installation.
- Only use genuine packed parts.
- Do not work with compressed air and do not move vehicle while the system is open.
- Make sure that no brake fluid enters plug connectors.