

**General Repair
and Test Hints**

**Safe Repair and Test
of WABCO Devices**



WABCO

General Repair and Test Hints

Safe Repair and Test of WABCO Devices

Edition 2

This publication is not subject to any update service.
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Version 1/05.2009(en)
815 010 109 3

Symbols used

WARNING



Imminent hazard situation which can cause serious personal injury or death if the safety instruction is not observed.

CAUTION



Potential hazard situation which can cause serious personal injury or death if the safety instruction is not observed.

— Direction/information for correct cleaning, repair or test of WABCO equipment

1 General Safety Instructions

Only qualified personnel of a specialist workshop only are authorized to perform repair work on a vehicle.

Absolutely follow specifications and instructions of vehicle manufacturer.

Follow company's as well as national accident prevention regulations.

Use protective outfit if required (protective goggles, respiratory protection, ear defenders, etc.).

2 Removal from vehicle

WARNING



You must secure vehicle against rolling away before removing equipment. Attach clearly marked note on steering wheel saying that repair work is being performed on vehicle.

CAUTION



Only remove equipment after it has cooled down and is at zero pressure.

— Mark position of equipment installation location (piping with connecting port). Designate cable connections.

— Only perform repair work, cleaning and test on a clean and tidy place.

3 Before dismantling

— Drain possibly existing liquid from equipment and dispose professionally.

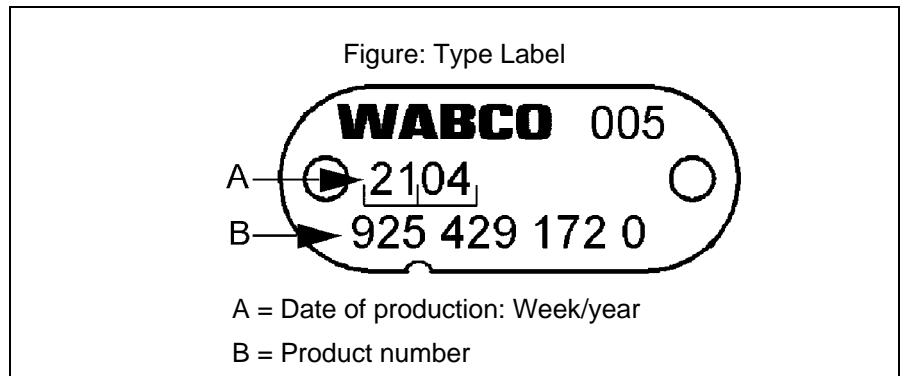
Equipment identification

— Determine equipment product number by its type plate (see figure).

— Pay heed to production date of equipment to be repaired (see figure).

Make sure that you are using the appropriate repair kit for equipment:

- Check to see whether equipment production date and product number (see figure) match with the data contained in the repair kit supplement.



- Check equipment for completeness by consulting quotation drawing to be found on www.wabco-auto.com by entering product number in product catalogue INFORM.
- When repairing the equipment, consult pertinent spare part sheet to be found on www.wabco-auto.com by entering product number in product catalogue INFORM.

4 Disassembly

CAUTION



Use only appropriate tools and devices for repair work. Never clamp equipment using a vice.

- To avoid mixing up parts do not dismantle several pieces of equipment at the same time.

CAUTION



Before any disassembly job, check to see whether equipment is under spring tension (refer to repair kit supplement or spare part sheet).

- Position disassembled parts on work place such as specified in exploded assembly drawing. Take a picture of the parts if need be.

5 Cleaning

CAUTION



Do not clean complete equipment or electric/electronic components and apparatus. Do not use fuels as cleaning agents. Fuels are flammable and dangerous to health.

- Application of cleaning agents normally used in workshops is generally permissible for components of pneumatic products only.
- Replace all plastic parts and rubber parts with new parts from the repair kit. If this is not possible or desired clean parts with aqueous cleaning agents on soap basis.
- Clean metallic parts with degreaser and on subsequent treatment with aqueous agents on soap basis.
- Clean housing components in an ultrasonic bath if required.

- Clear breathing holes and vent holes from contamination.
- Degrease old parts and dispose of them in an environmentally-oriented way.

6 Appraisal

- Replace damaged equipment components (refer to spare parts sheet). Damages involve, among others, corrosion, surface wear, damaged thread.
- Check depressions on equipment surfaces by running your fingernail over the surfaces (fingernail test). You need to replace the equipment in case of noticeable depression.

7 Assembly

CAUTION



Always start repair work only then when you have read and understood all information required for repair.
Secure equipment to be repaired against falling.

- Use only spare parts released by WABCO or vehicle manufacturer.
- Mark those parts on the exploded assembly drawing (repair kit supplement) one after the other which you replaced.
- Always use all parts of the repair kit for the equipment.
- Pay attention during your repair work not to mix up old parts with new parts.
- Follow greasing instruction for repair kit. Do not grease rubber membranes.
- Perform assembly in reverse order of disassembly.
- Observe torque according to repair kit supplement.

8 Testing

- When repairing the equipment, consult pertinent test instruction to be found on www.wabco-auto.com by entering product number in product catalogue INFORM.
- Absolutely adjust universal equipment according to vehicle manufacturer's data.

WARNING



Before reinstalling equipment in the vehicle, check each repaired equipment for functional efficiency and tightness on a test bench or adequate facility.

Checking tightness

- Check tightness by soaping equipment with lather.
- Take heed not to allow lather to penetrate into equipment when soaping down. Penetrating water may lead to corrosion.
- Blistering indicates equipment is leaking and repair was not successful.

- Repeat repair job.
- Mark checked equipment in order to distinguish it from untested equipment.

CAUTION

Only loosen lock screws, hoses and equipment parts then when the respective lines of the test bench are vented.

9 Installing in vehicle

- Re-establish corrosion protection if required.

WARNING

Check complete system for its proper function after any replacement or any repair. Test-drive vehicle after any equipment installation.

- Document test, e.g. in a test log.



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