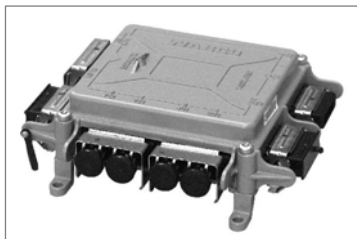


## Repairs to ABS Trailer Systems

Due to the fast-paced development of the semi-conductor industry, tested electronic control units – such as Vario C and VCS I – are no longer being manufactured. Therefore we had to discontinue both these ABS systems for trailers at the end of 2006.

These units are to be replaced by the installation of a type VCS II control unit. To ensure that the units are exchanged easily, we have put together repair kits including appropriate cables and a comprehensive instruction sheet.

All kits can map 2S/2M, 4S/2M and 4S/3M systems and are therefore suitable for semi-trailers and drawbar trailers. When converting the VCS II you can use the extensive functional range of the new system at the same time. For further information on GIO functions (such as speed-dependent gear shifts) see the VCS II system description on our INFORM product database at [www.wabco-auto.com](http://www.wabco-auto.com).



### Exchange VCS I Electronic Unit for VCS II ECU

Repair kit 446 108 920 2 includes a separate ECU type VCS II. Just replace the electronic unit and continue to use the modulators, sensors and most of the cables.

When replacing a VCS I compact unit, the magnet valve block can usually continue to be used.



### Exchange of the Complete VCS I Compact Unit

Repair kit 446 108 921 2 contains a VCS II compact unit as well as the required cables and adapters. This way the modulators are also renewed. This repair kit is also suitable for **Vehicles with Mixed Supply**. As this additional connector is fitted to the stop light supply at the 24 N plug, the system can also be used without an ABS plug connection in accordance with ISO 7638.



### Exchange of the Vario C Equipment

Repair kit 446 105 926 2 is used to exchange the sensor extension cable and the supply cable when converting the equipment to a modern cabling system. When installing a new VCS II compact unit the modulators are renewed at the same time, which is sensible for older vehicles.

As is the case with the other repair kits, the connection to the third modulator for 4S/3M equipment (drawbar trailers) is also provided for.

Please note that in many countries, once the ABS system has been exchanged for a new generation system, re-homologation is required. Further information on the repair kits is available under the specified product numbers on INFORM. We are happy to answer any other questions you may have – please give us a call!