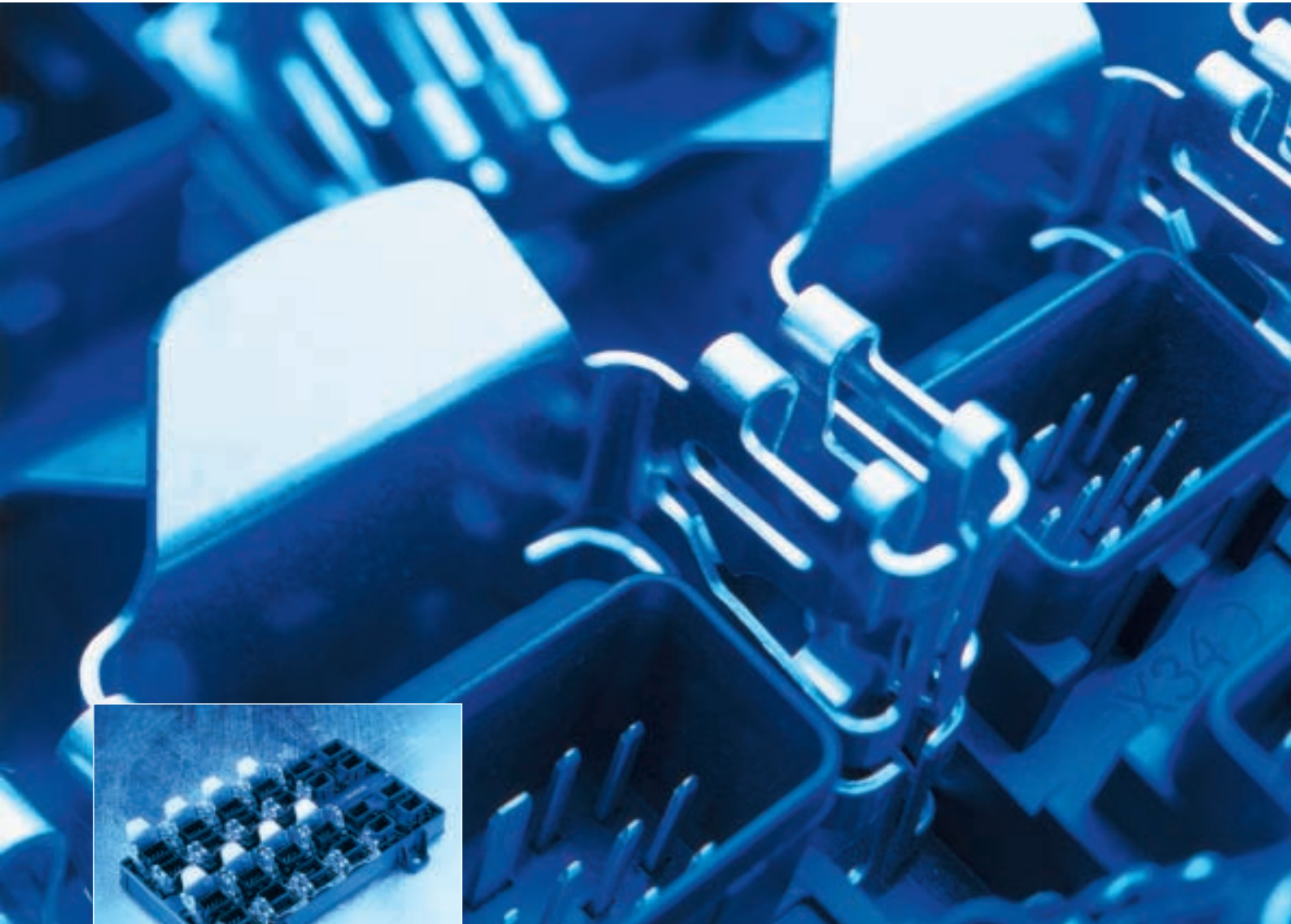


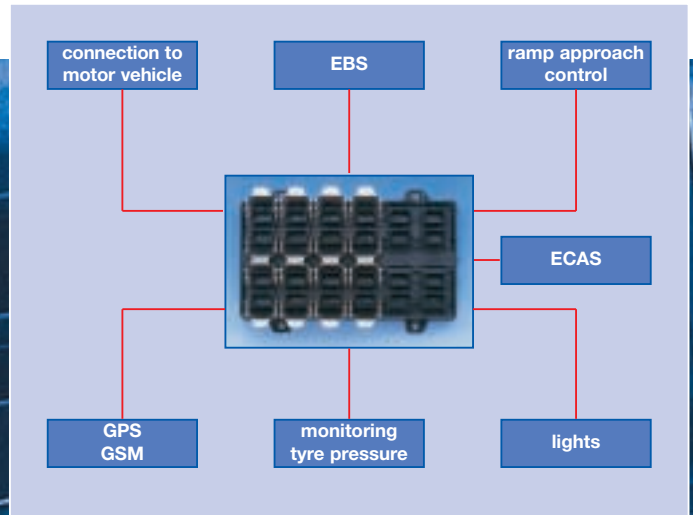
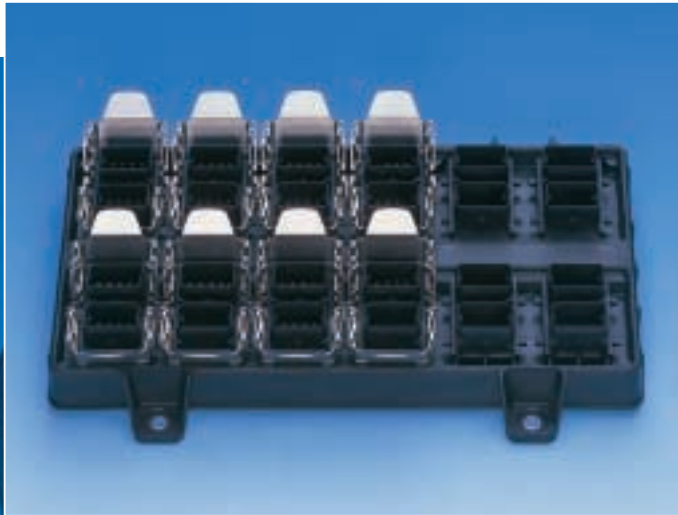
**TCE**

Trailer Central Electronics



**WABCO**

# Easy installation – because time is money



## Innovative braking and control system

WABCO's electronic braking system for trailers, Trailer EBS, might already be part of the technological standard of your fleet. We have further developed this reliable and economical braking system in order to meet the requirements of modern control systems existing on trailers.

More and more towing vehicles have intelligent displays on the dashboard. They clearly show all relevant information and allow for various vehicle functions to be operated via the vehicle data bus.

As standardized data connections between the motor vehicle and its trailer have now been introduced, the trailer can be included in this procedure. Together with the data interfaces used for this purpose, TCE, as the central electronic control unit, establishes the basis for a uniform combination of trailer systems.

This clears the way for further optimizing today's systems and for achieving new system functions.

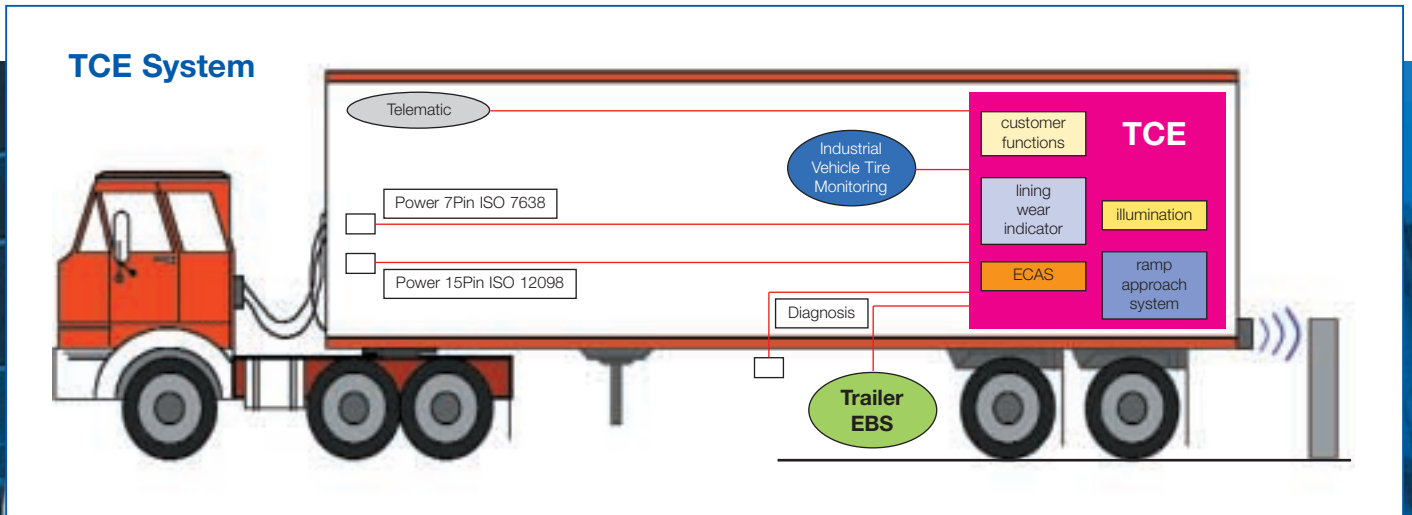
## What can TCE do?

WABCO's well-known plug-in system with pre-assembled cables is also used for this system.

TCE integrates the following functions in its new housing design:

- Data connection to motor vehicle
- Connection to Trailer EBS
- Ramp approach control
- Electronically Controlled Air Suspension system (ECAS) included
- Electronic activation of lights: permits conventional light systems to be connected
- Connection to tire pressure monitoring system
- Central point for servicing functions, vehicle diagnosis
- Evaluation of brake lining wear
- Connection of telematics system possible for vehicle location and service information
- Control of different analog sensors and switches e.g. door monitoring, driving level switch, cooling temperature
- Individual functions

## Benefits for OEMs and end-users



### Benefits of Trailer EBS

- Easy installation and start-up
- Enhanced safety
- Shorter stopping distance
- Even wear of all brake linings
- Straightforward diagnosis

### Integrated Electronically Controlled Air Suspension (ECAS)

All you need is to connect the external components such as height sensor, valve and remote control unit.

### Ramp approach control

This system continuously monitors the vehicle speed and its distance from the ramp during rearward driving. Once a certain distance has been reached, the vehicle is braked automatically and stops in front of the ramp.

### Sensors for brake lining wear

The lining thickness of up to 6 disc brakes can be monitored. The information is transmitted to the truck (warning light and display).

### Individual functions

Due to free electrical input and output ports available for allocation on the TCE control unit, we can implement additional

functions which you may need, such as steering axle control or door and temperature monitoring systems.

### Controlling trailer lights

The electronic activation and monitoring features for the trailer lights have been integrated. Malfunctions are transmitted to the motor vehicle.

### More efficiency through locating systems

Locating systems inform you where your vehicle is located, provide the output of measuring data or transmit servicing data to you via GPS and GSM.



WABCO, the vehicle control systems business of American Standard Companies, is the world's leading producer of electronic braking, stability, suspension and transmission control systems for heavy duty commercial vehicles. WABCO products are also increasingly used in luxury cars and sport utility vehicles (SUVs). Customers include the world's leading commercial truck, trailer, bus and passenger car manufacturers. Founded in the US 135 years

ago as Westinghouse Air Brake Company, WABCO was acquired by American Standard in 1968. Headquartered in Brussels, Belgium, the business today employs nearly 6500 people in 29 office and production facilities worldwide. In 2003, WABCO contributed US\$ 1.358 billion to American Standard's total sales of US\$ 8.568 billion.

**Website: [www.wabco-auto.com](http://www.wabco-auto.com)**

