

Trailer EBS E 1.5: Immobilizer and Multi-Voltage

Huge losses are caused year after year by the theft of utility vehicles. While anti-theft devices are standard equipment on passenger vehicles, trailers in the utility vehicle sector still require a locking bar to protect the vehicle and the load from theft.

WABCO offers an effective solution with the immobilizer: When hooking up/unhooking, the immobilizer is activated on the Trailer EBS E via the SmartBoard. This actuates the brakes of the trailer and the trailer cannot be pulled away.

The person responsible for the vehicle is assigned with a PIN for the vehicle and the driver is informed of the PIN for activating and deactivating the immobilizer. This way, the PIN can be forwarded by a mobile phone text for instance, in order to transfer an immobilized trailer with another towing vehicle.



The Immobilizer requires a Trailer EBS E Premium Modulator, version 1.5 (as of week of manufacture 50/2009) and a SmartBoard (as of week of manufacture 49/2009). A solenoid valve on a free Power GIO connection takes on the control of the spring brake cylinder. A signal horn can also be actuated, which produces an alarm when the brakes are manipulated.

Would you like to learn more about the Immobilizer? A circuit diagram for the TEBS E Immobilizer is provided under 841 701 227 0 in the product catalogue INFORM or directly via this [Link](#). For details on installing an immobilizer, please contact your WABCO partner.

New "voltage-freedom" with the Multi-Voltage Modulator

Trailer vehicles can be pulled with 12 or 24 volt vehicles with the new Trailer EBS Modulator 480 102 080 0. A voltage transformer is not required. Especially in countries where American and European vehicles are common, a Multi-Voltage trailer is very flexible. The Multi-Voltage Modulator makes it possible to equip semitrailers with 2S/2M or 4S/2M.

New ECE guidelines require stability control

Trailers of class O4 with up to 3 axles, certified as of July 2010 must be equipped with a vehicle stability function.

With the WABCO Trailer EBS E, you have this stability function (RSS) and therefore already meet all requirements of this legislation for improved safety in traffic.

For verification of this functionality, we provide you with another certificate. You can open the certificate directly via the links in the table.

EBS function	EB124.5E
ABS function	EB123.8E EB123.8E Information Document
RSS function (new)	EB 167.0