

# TRAILER

## BRAKING SYSTEMS IDENTIFICATION

### ABS -VCS I

24V 400/500/036/0 NLA  
12V 400/500/050/0 NLA



### ABS -VCS II

12V 400/500/083/0  
24V 400/500/081/0



### TEBS-D

12V 480/102/020/0  
24V 480/102/014/0



### TEBS-E

480/102/064/0 24V ONLY  
480/102/080/0 MULTIVOLT



## DIAGNOSTIC HARDWARE CASE

448 301 023 0  
Diagnostic Software Zubehörset für  
diagnostic software accessory case  
for  
Trailer



# TEBS-E STANDARD ELECTRONICS

## WABCO

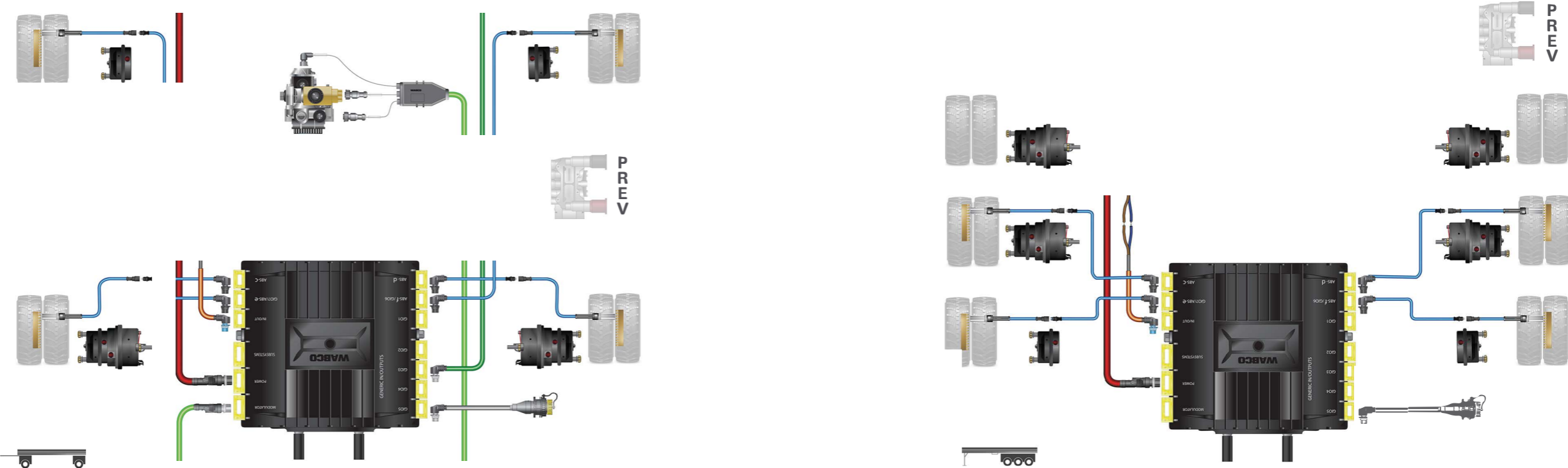
**ISO 7638 PLUG**  
446/008/414/2 24V WITH PINS  
446/008/414/M MULTIVOLT WITH PINS  
446/008/414/MB MULTIVOLT NO PINS  
446/008/395/2 12V WITH PINS

**ISO 7638 SOCKET**  
446/008/404/2 24V WITH PINS  
446/008/386/2 12V WITH PINS

**ISO 7638 CABLE**  
446/008/238/2 12V  
446/008/243/0 24V  
446/008/243/M MV

**KEYWAY**  
12V KEYWAY  
24V KEYWAY

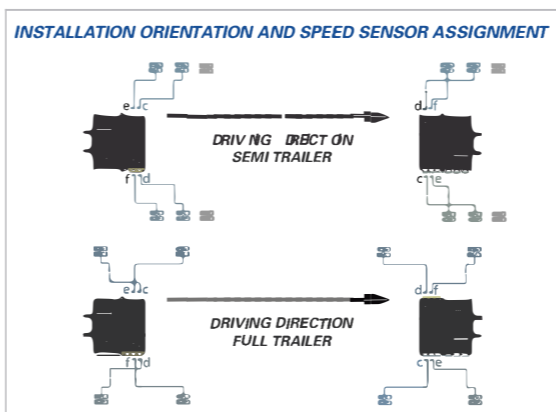
**WIRE GAUGES**  
+ 4mm<sup>2</sup> BATTERY POWER  
② + 1.5mm<sup>2</sup> IGNITION POWER  
③ 1.5mm<sup>2</sup> EARTH  
④ 4mm<sup>2</sup> EARTH  
⑤ 1.5mm<sup>2</sup> WARNING LIGHT  
⑥ 1.5mm<sup>2</sup> CAN HIGH  
⑦ 1.5mm<sup>2</sup> CAN LOW



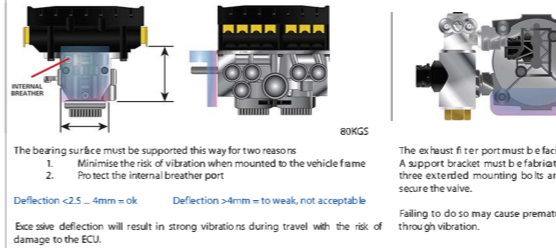
### TEBS-E STANDARD CABLE LEGEND

POWER CABLES	24N STOP LAMP POWER CABLE	DIAGNOSTIC CABLE
FT 449/233/100/0 10M	449/349/040/0 4M	449/611/030/0 3M
FT 449/233/140/0 14M		449/611/040/0 4M
		449/611/060/0 6M
		449/611/080/0 8M
PRESSURE SENSOR CABLE	ECU SENSOR CABLES	
449/347/025/0 2.5M	449/723/003/0 0.3M	
449/347/080/0 8M	449/723/030/0 3M	
	449/723/100/0 10M	
3RD MODULATOR CABLE	ECU SENSOR EXT CABLES	
ST 449/173/130/0 13M	449/712/030/0 3M	
ST 449/173/150/0 15M	449/712/064/0 6.4M	
	449/712/100/0 10M	
ST 449/133/120/0 12M		

### MOUNTING INSTRUCTIONS



### MOUNTING INSTRUCTIONS FOR ECU AND 3RD MODULATOR



### OPTIONAL EXTRAS

**SMARTBOARD**  
446/192/110/0  
446/192/111/0 (ADR)

**ELECTRONICALLY CONTROLLED AIR SUSPENSION COMPONENTS**

- eTASC VALVE 463/090/500/0 MULTIVOLT
- LACV VALVE 463/084/100/0 24V ONLY
- LACV VALVE 463/084/050/0 12V (MULTIVOLT)
- ECAS SOLENOID 472/880/020/0 24V
- ECAS SOLENOID 472/880/030/0 24V
- ECAS SOLENOID 472/880/072/0 12V (MV)
- 449/445/010/0 1M
- 449/445/030/0 3M
- 449/445/050/0 5M

**ELEXECU**  
446/122/070/0

**TRC**  
TRAILER REMOTE CONTROL 446/122/080/0

**HEIGHT SENSOR**  
441/050/100/0
- 449/811/010/0 1M
- 449/811/030/0 3M
- 449/811/050/0 5M

**CAN ROUTER**  
446/122/050/0

**POWER CABLE**  
449/303/020/0 2M  
449/303/050/0 5M

**MULTI PURPOSE CABLE**  
449/535/060/0

**"Y" CABLE**  
449/818/022/0

**VOLTAGE INVERTER**  
ABS12 24/ECAS/GFT

**MAGNET VALVE**  
472/170/606/0 24VN/C M12 PORTS  
472/173/206/0 24V N/O M12 PORTS  
449/515/004/0  
472/170/991/0 12V N/C 1/4" PORT  
472/173/701/0 12V N/O M12 PORTS  
449/521/005/0  
472/102/040/0 MV N/O M12 PORTS

**OTHER VARIATIONS AVAILABLE**

### COMPONENT PART NUMBERS

**3RD MODULATOR**  
480/207/001/0 24V ONLY  
480/207/202/0 12V (MULTIVOLT)

**PRESSURE SENSOR (AIR BAG)**  
441/044/101/0

**SPEED SENSOR**  
THIS PART MAY VARY  
WABCO SYSTEMS FIT MOST VARIANTS

**TEBS-E-ECU**  
480/102/064/0 24V ONLY  
480/102/080/0 12V OR 24V (MULTIVOLT)

**YOUR GOUGH GROUP CONTACTS**

**GOUGH TWL**  
0508 677 704

**GOUGH TRANSPERCS**  
0800 875 669