

## UNNECESSARY REPLACEMENT OF TEBS E MODULATORS

Although there is no proof about the real cause of incidences of leakage from the silencer of the TEBS E, the complete modulator is often exchanged. With this Market Information we would like to give you some troubleshooting hints, thus avoiding the unnecessary replacement of the TEBS E.

### INDICATION

While the trailer is parked, a venting noise coming from the TEBS E modulator is noticed.

### Root cause 1: Spring Brake Cylinder

One of the spring brake cylinders is defective. This allows spring brake release pressure to pass to the pressure less service brake line, from where it is vented through one or both silencers of the TEBS E.

#### Test and repair

The venting sound should disappear as soon as the handbrake or the brake pedal of the truck is applied. To identify the defective spring brake cylinder, the service brake must be released. The brake line must be disconnected from the spring brake cylinders one by one. The cylinder venting through port 11 is the one that is defective. The defective spring brake cylinder must be replaced. WABCO recommends exchanging both cylinders of the axle to ensure identical braking performance.

### Root cause 2: Pneumatic Extension Module (PEM)

In the case of equal pressure or small pressure difference between spring brake release and service line, the anti-compound valve inside the PEM will allow a small air flow, which is then vented through the TEBS E modulator's silencer located next to the PEM.

#### Test and repair

The venting sound should disappear immediately after releasing the service and the handbrake valve.

WABCO provides repair kits eliminating the above mentioned air flow. No further action is required apart from installing the relevant kit.



Application	TEBS E Modulator No.	Repair Kit No.
Aluminium PEM repair kit	480 102 <b>033 / 034 / 035</b> 0 480 102 <b>063 / 064 / 065</b> 0	461 513 921 2
Composite PEM repair kit	480 102 <b>031 / 036</b> 0 480 102 <b>061 / 066</b> 0	461 513 922 2
Reassembling PEM to TEBS E	Fits on all modulators	461 513 920 2

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Please contact your [WABCO partner](http://www.wabco-auto.com/findwabco) for further information (www.wabco-auto.com/findwabco).