



# AIR BRAKE CORPORATION OF AUSTRALIA P/L

www.airbrakecorp.com.au

Phone (02) 9477 7000



## THE FUTURE IS HERE!

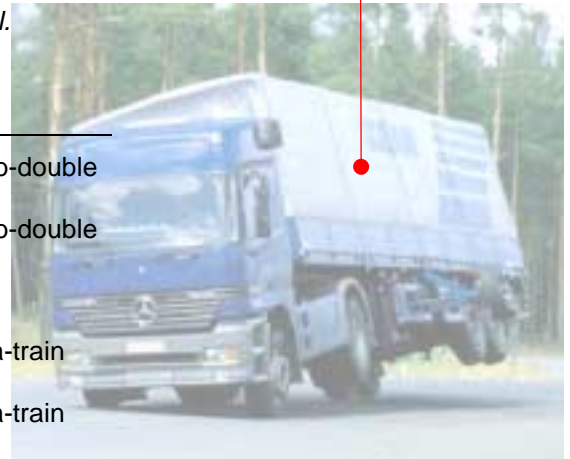
The next quantum leap in trailer braking is here. TEBS, the Electronic Braking System for trailers (otherwise known as 'Brake by Wire'), is now available from Australia's leading ADR38 trailer brake system specialist. If you're ready for the future, we can take you there - TODAY!

Most new European truck models now come with EBS and disc brakes. TEBS ensures matching state of the art features and performance from the trailer, and is not only essential for optimal brake balance with these new high tech vehicles, but also offers real benefits behind North American towing vehicles without EBS\*.

- ✓ Improved driver confidence & reduced fatigue with car-like brake feel and performance.
- ✓ Shorter stopping distance (typically 15% to 20% shorter with disc brakes).
- ✓ Faster brake applications with synchronous truck & trailer braking (no lag or trailer push).
- ✓ Even brake wear & consistent pedal feel at all loads with integral electronic load sensing.
- ✓ Guaranteed stability via integral ABS with improved efficiency for reduced air consumption.
- ✓ Integral data logging function records distance, speed, axle load, ABS & RSS events & various other operating parameters for comprehensive fleet management analysis.
- ✓ Sensing & in-dash warning of disc pad wear limits with optional wiring harness.
- ✓ Integration with optional 'ELM' (Electronic Levelling Module) for advanced air suspension control & raise/lower functions.
- ✓ Active rollover protection via optional 'RSS' Roll Stability System.
- ✓ Sensing & in-dash warning of low trailer air pressure.
- ✓ Integration with speed governed lift axle control.
- ✓ Comprehensive PC programming & diagnosis.

BRAKE BY WIRE

KIT PART No.	SARN	DESCRIPTION
<b>EBS02A...(RSS)**</b>	30800	2 axle semi, lead b-double
<b>EBS02B...(RSS)**</b>	30801	2 axle semi, tag
<b>EBS03A...(RSS)**</b>	30730	3 axle semi, lead b-double
<b>EBS03B...(RSS)**</b>	30731	3 axle semi, tag
<b>EBS11B...(RSS)**</b>	33748	2 axle dog, tag
<b>EBS12B...(RSS)**</b>	31280	3 axle dog, tag
<b>EBS22A...(RSS)**</b>	31281	4 axle dog, lead a-train
<b>EBS22B...(RSS)**</b>	31282	4 axle dog, tag
<b>EBS23A...(RSS)**</b>	33821	5 axle dog, lead a-train
<b>EBS23B...(RSS)**</b>	33822	5 axle dog, tag



... add suffix to kit P/N for TEBS operating voltage – '12' for 12 volt or '24' for 24 volt. (please see overleaf for details of power supply operating voltage considerations\*)

\*\*Add 'RSS' to kit P/N for optional Roll Stability System (now for ALL trailer types).  
Order wiring kit P/N 480.102.922.2 for optional disc pad wear sensing.  
Contact Air Brake Corporation for details of 'ELM' and lift axle options.

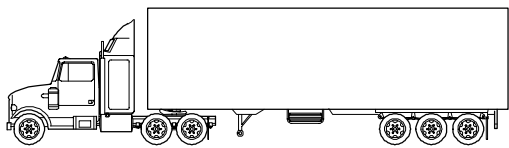
As Australia's leading trailer brake system only specialist, with support staff in every major capital, Air Brake Corporation is the perfect partner to guide you through this brave new world of intelligent Electronic Brake Systems. We don't just sell – we help you select, specify, install, commission, and maintain the most cost effective ADR approved TEBS solution for you.

**SEE OVER WHY TEBS SHOULD BE AN ESSENTIAL PART OF YOUR FUTURE TODAY!**

contact numbers....	VIC (0408) 448 084	VIC (0418) 510 086	SA (0418) 510 086
NSW (02) 9477 7000	QLD (0419) 016 271	NT (0419) 016 271	WA (08) 9472 7033

The trailers you buy today will likely outlast your next 2 or even 3 prime movers. The next prime mover you buy will very likely have EBS and disc brakes. If you want the trailers you buy today to be as future-proof as possible, TEBS is your guarantee.

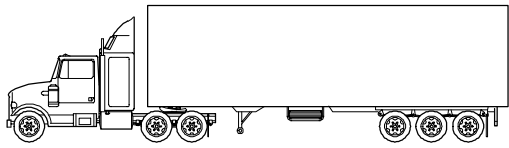
The following table outlines the consequences of mixing the various brake system types that are now available in an articulated vehicle combination (\*assumes matched power supply voltage).



TOWING VEHICLE with EBS conventional AIR BRAKES

**XXX NOT RECOMMENDED**

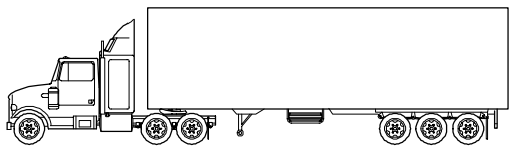
Load proportioning only on towing vehicle can result in over-aggressive trailer braking & **accelerated brake wear**. No ABS on trailer with over aggressive braking can result in **chronic wheel lock & dangerous instability** accentuated by push from slow trailer system.



TOWING VEHICLE with EBS TRAILER with LSV

**✓XX LESS THAN OPTIMAL (SAFETY)**

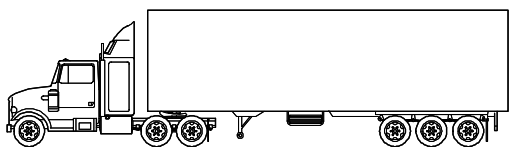
Load proportioning on both for improved brake balance & more even brake wear, but no ABS on trailer means wheel lock & instability still possible, & pneumatically triggered trailer system behind 'fast' EBS towing vehicle accentuates trailer lag/push.



TOWING VEHICLE with EBS TRAILER with ABS

**✓✓X LESS THAN OPTIMAL (WEAR)**

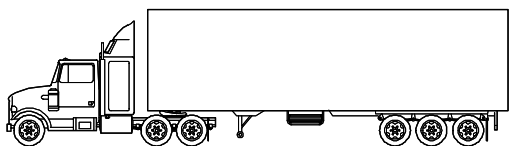
Electronic load proportioning only on towing vehicle can result in over-aggressive trailer braking & **accelerated brake wear**. ABS on both\* ensures stability but pneumatically triggered trailer system behind 'fast' EBS towing vehicle accentuates trailer lag/push.



TOWING VEHICLE with EBS TRAILER with EBS

**✓✓✓ HIGHLY RECOMMENDED**

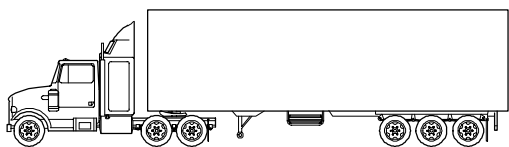
Electronic load proportioning on both\* for optimum brake balance & **even brake wear** at all loads. ABS on both\* for **optimum stability & minimum stopping distance**. Electronically triggered trailer system\* for synchronous braking (**no trailer lag or push**).



TOWING VEHICLE with ABS TRAILER with EBS

**✓✓✓ READY FOR THE FUTURE**

ABS on both\* ensures optimum stability & reduced stopping distance. Electronic load proportioning only on trailer may result in more aggressive towing vehicle braking, but ABS prevents possible instability, & trailer EBS load proportioning can be disabled if desired.



conventional AIR BRAKES TRAILER with EBS

**✓✓✓ READY FOR THE FUTURE**

No power connection to trailer EBS so load proportioning & ABS functions are inactive - trailer operates pneumatically at full pressure, so is no worse than most trailers on the road today, but is ready to provide optimum brake performance behind your next (EBS) truck!

\*WABCO TEBS components are now available for semi-trailer applications in both 12 and 24 volt. If towing vehicle is 24 volt EBS with voltage reducer to 12 volt trailer connector, it is preferable to install a dedicated 24 volt connector for powering trailer EBS for optimum power supply reliability and full CAN function. For dog trailer applications, TEBS is only available in 24 volt - an inverter is supplied with the above 12 volt dog trailer kits to step up to 24 volt.