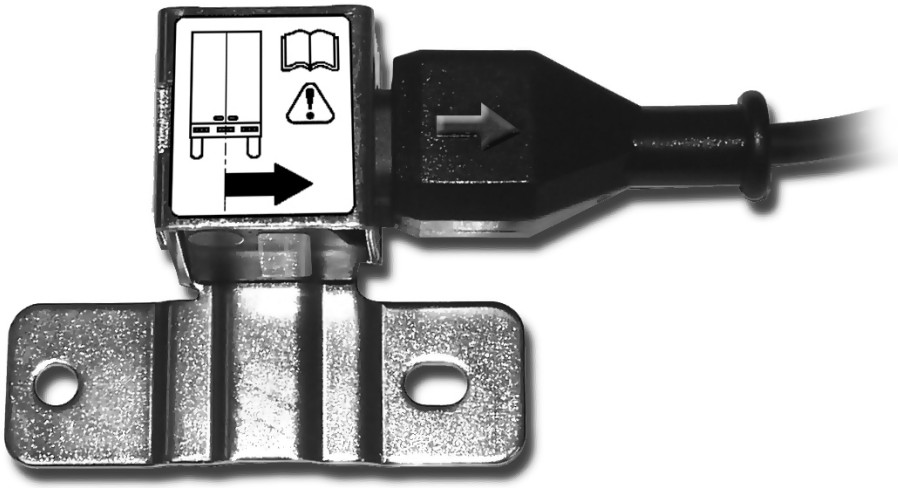


EBS STABILITY
LATERAL ACCELEROMETER

INSTALLATION INSTRUCTIONS

Haldex

000 700 287 / 03.04 / Redditch

Assembly

INTRODUCTION

EB+ Stability is an advanced Trailer Roll Stability function that senses when the trailer is near to a rollover condition and automatically applies the trailer brakes to slow the vehicle combination down. It will help to reduce the likelihood of trailer rollover BUT IT WILL NOT PREVENT ROLLOVER and should be used as an aid to normal good driving practice.

It uses a lateral accelerometer to determine the level of cornering and as part of its operation it applies brief pulses of brake pressure during normal cornering, even below a level at which a rollover may occur.

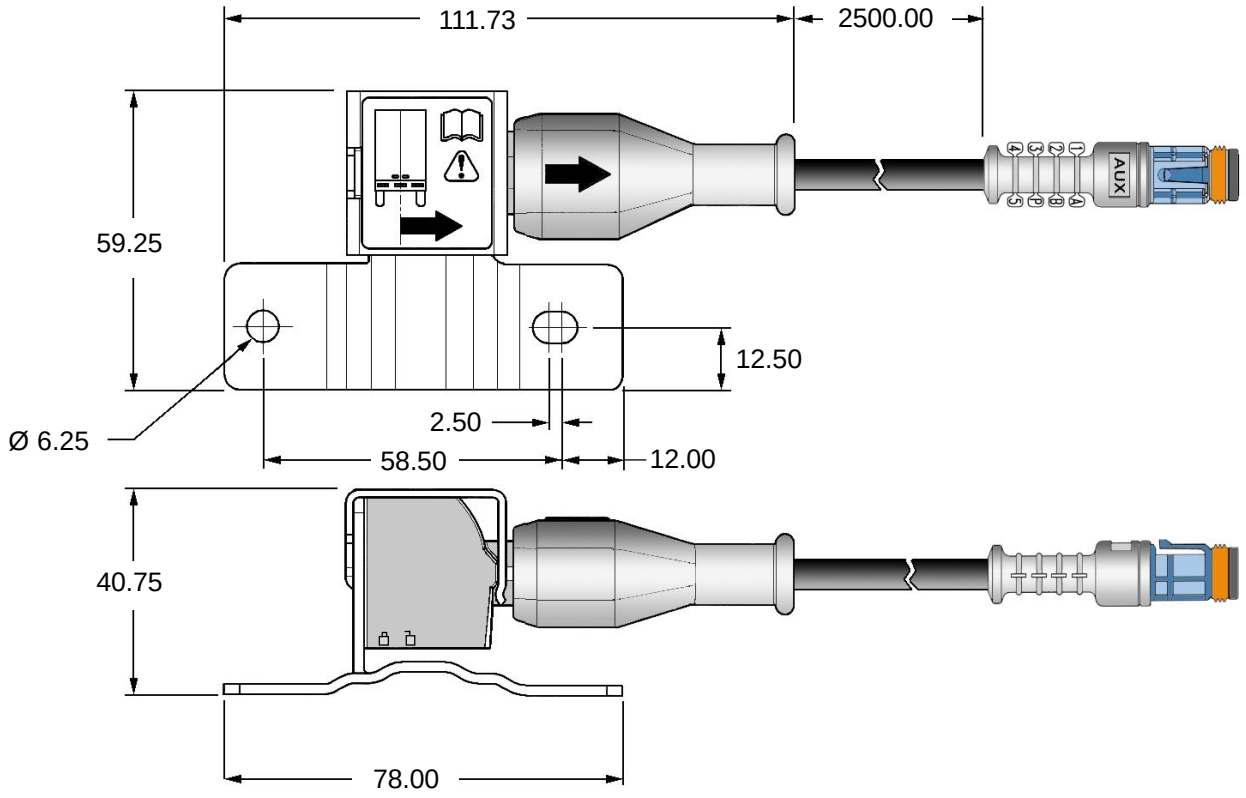
These pulses may be noticeable to a driver but will reduce in number after the system has learnt the vehicle combinations roll characteristics and are part of the normal operation. This learning process will be repeated every ignition cycle, if the load is changed or if an axle is lifted or lowered.

EB+ STABILITY MUST NOT be installed in any of the following cases:

- **Axle by Axle Semi-trailer configuration**
- **Centre-axle-trailers**
- **Full-trailers**
- **Semi-trailer with mechanical suspension**

It is recommended that vehicles with COLAS® (Raise/Lower valve) have a reset to ride function.

Assembly Part No - 815 012 001



Mass of Assembly = 0.3 Kg

Fig 1

POSITION OF EB+ STABILITY ASSEMBLY

Assembly must be mounted so that the direction of the cable is facing the RIGHT HAND side of the vehicle. Right hand is as if sat in the driver's seat facing forward.

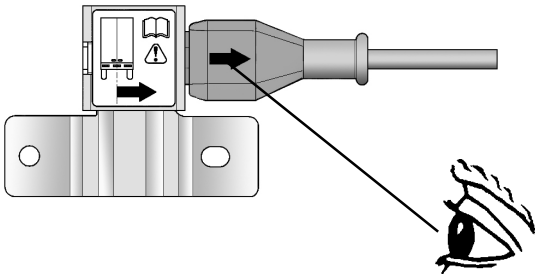
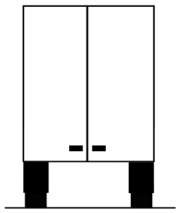


Fig 2

The following installation paramerters are required for correct operation.

The parameters are applicable to the trailer being on FLAT LEVEL GROUND

Roll angle : ± 3° (1:20)



Rear End view

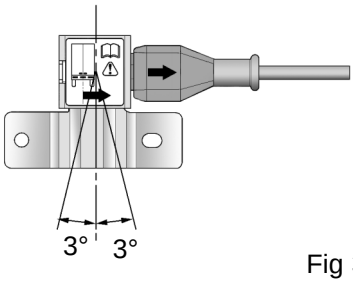
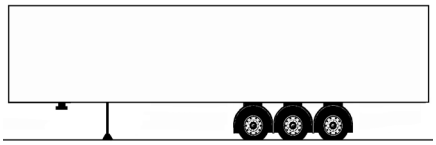


Fig 3

Pitch angle : 360°



Side view

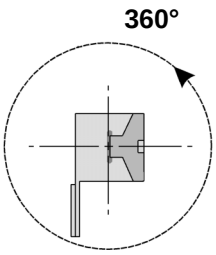


Fig 4

Yaw angle : ± 5°



Plan view

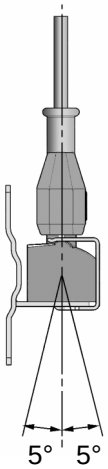


Fig 5

Chassis Installation

The EB+ STABILITY to be mounted within ±1 m of the centre of the axle(s), (Includes any lift axles)

The EB+ STABILITY to be within the main Left Hand (LH) and Right Hand (RH) chassis members of the vehicle.

A: Single axle
B: Tandem axle
C: Tri-Axle

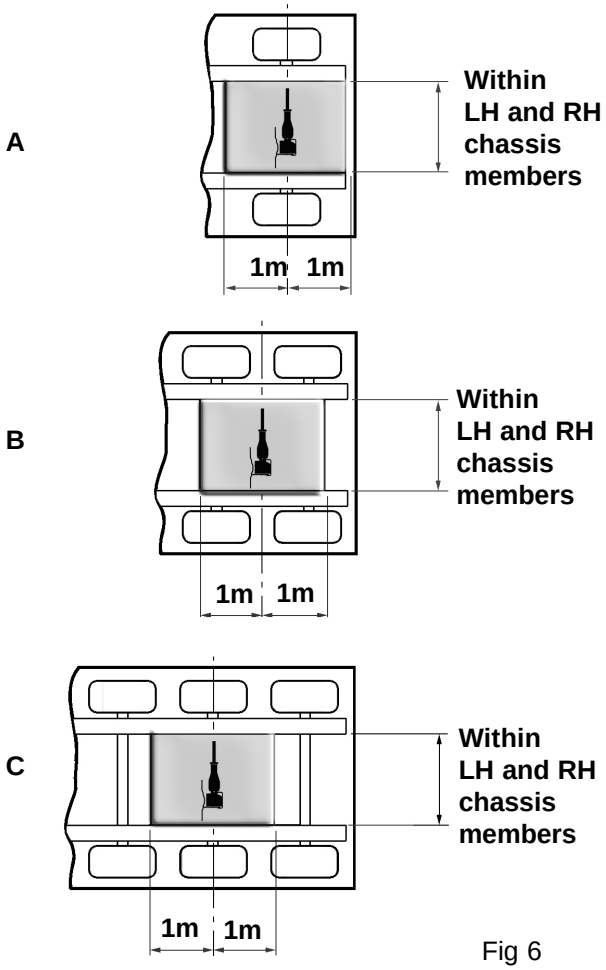


Fig 6

Position EB+ STABILITY assembly as high as possible in the chassis to provide as much protection to the assembly from direct spray and other road debris.

DO NOT mount EB+ STABILITY to deck of trailer.

Care should be taken to provide reasonable access to the EB+ STABILITY for replacement .

D= 150mm minimum
E= 1. Assembly to be above axle centre line.
2. To be as high in frame as possible.

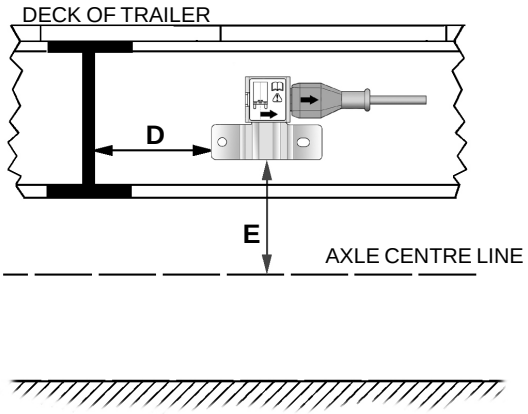


Fig 7

EB+ STABILITY MUST BE mounted directly to a rigid part of the vehicle structure.

Any additional bracket design to be as rigid as possible.

The mounting foot of the EB+ STABILITY bracket to be in full contact with the mounted surface.

Mounting bracket flatness to be not more than 0.5mm deviation from its true plane.
i.e. the surface must lie between two parallel planes 0.5mm apart.

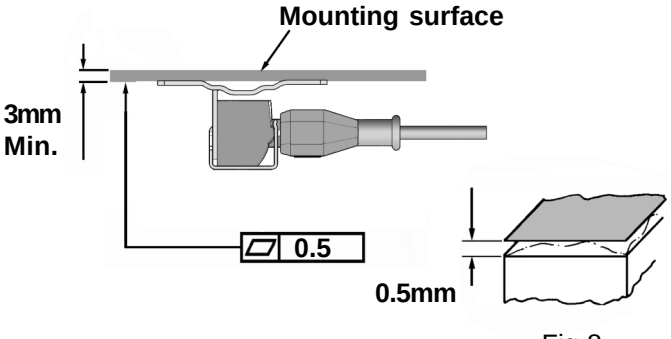


Fig 8

AUXILIARY PLUG

Identification tags are incorporated on either side of the Auxiliary connector.
These **MUST** be removed to identify the appropriate useage before connecting into the EB+ ECU.

Indent tag marked **'5'** to remain remove all other tags .

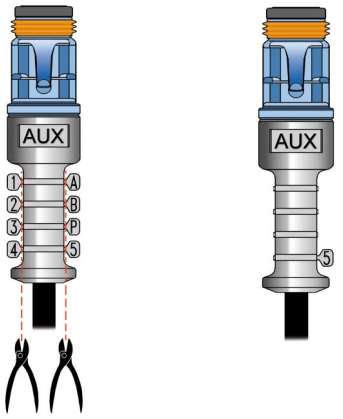


Fig 9

ELECTRIC CONNECTION

Remove blanking plug from position marked **'AUX 5'** on EB+ ECU.

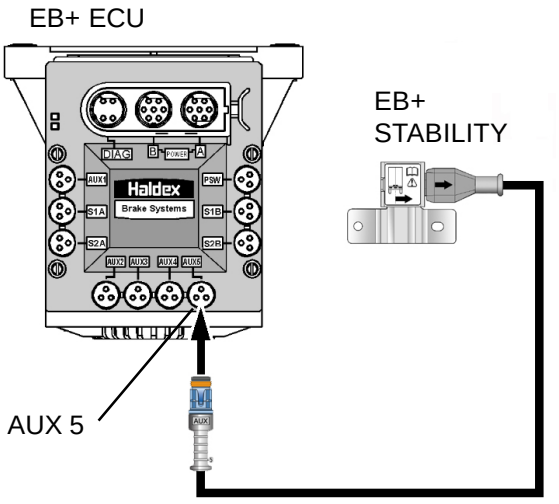


Fig 10

Identify orientation of the Auxiliary 'Blue body' connector.
Ensure contact pins and seal are kept clean and free of any contamination prior to installation.
Insert fully home in the EB+ ECU's housing into positions.

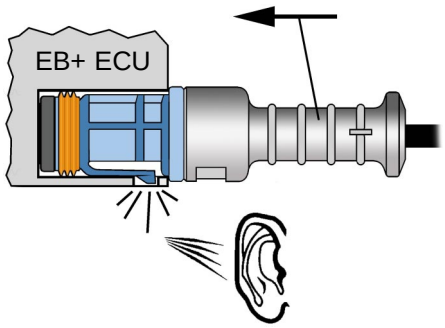


Fig 11

Chassis Installation

EB+ STABILITY cable should be secured down the chassis rail in trunking or to piping and should be sedcured not less than 150mm intervals.

NOTE: All cables should run **'UP TO'** EB+ ECU connections.

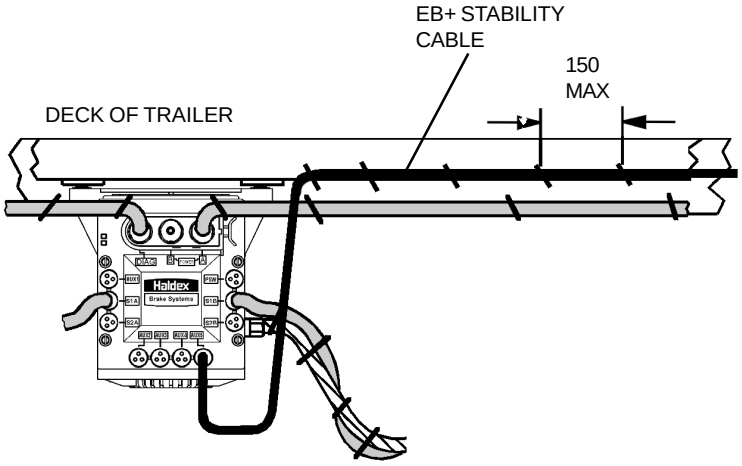


Fig 12

Cable lengths GREATER than 1m to be coiled and then flattened in the centre **'B'** to produce a 'dog bone' shape.

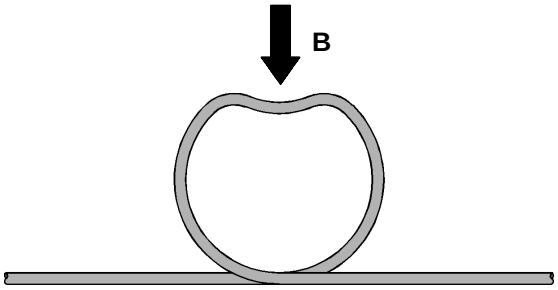


Fig 13

The resulting loops at the end must have a minimum bend radius of 50mm. Cable ties are to be used to fix the cable in the flattened loop shape.

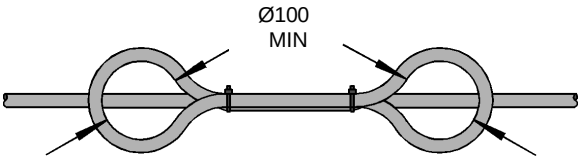


Fig 14

EB+ ECU Configuration

Refer to DIAG+ v3.21 User guide 000 700 255, Page 10 - AUX 5 Option and Page 18 End-of -line Test for AUX 5.

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