

TRAINING PROGRAMME 2020



EBS training

- › Discover and understand EBS systems
- › Acquire methods of diagnostics
- › Examine and repair the components of the systems



Innovative Vehicle Solutions

1. Objective

To understand the basic function of EBS.

To be able to diagnose and rectify / replace the different components and faults on the EBS systems.

To be able to replace these components, programme / re-programme the ECU using PC or Info Centre.

2. Attendees

Workshop engineers and persons with an understanding of EBS / ABS systems.

3. Documentation issued

Complete workshop manual for EB+ including diagnostic, EB+ Info Centre, wall charts and an update of software where required.

Location and date		Lecture times	Cost
Newton Aycliffe:	19 & 20 February 2020	09:00 – 12:30 13:00 – 17:00	£395 +VAT
MIRA Nuneaton:	18 & 19 March 2020	09:00 – 12:30 13:00 – 17:00	£395 +VAT
Newton Aycliffe:	22 & 23 April 2020	09:00 – 12:30 13:00 – 17:00	£395 +VAT
Newton Aycliffe:	20 & 21 May 2020	09:00 – 12:30 13:00 – 17:00	£395 +VAT
MIRA Nuneaton:	17 & 18 June 2020	09:00 – 12:30 13:00 – 17:00	£395 +VAT
Newton Aycliffe:	16 & 17 September 2020	09:00 – 12:30 13:00 – 17:00	£395 +VAT
MIRA Nuneaton:	21 & 22 October 2020	09:00 – 12:30 13:00 – 17:00	£395 +VAT
Newton Aycliffe:	18 & 19 November 2020	09:00 – 12:30 13:00 – 17:00	£395 +VAT
Newton Aycliffe:	9 & 10 December 2020	09:00 – 12:30 13:00 – 17:00	£395 +VAT

* The course will run subject to adequate bookings

4. Certificates

A certificate on the basics of EBS systems will be issued on completion of the course.

Programme of information

Presentation

- › Introduction to Haldex Ltd

System EBS - EB+

Day 1 - Introduction to the various components of EB+

- › Identifying valve assemblies EB+ Gen1, Gen2 and Gen3
- › The function of the modulator valves
- › Understanding the piping and wiring circuits of the systems
- › Understanding the function of the TEM and TrCM+ Safe Parking valves
- › Understanding the operation of the roll stability function
- › Diagnosing using the EB+ DIAG+ programme on a PC
- › How to programme / re-programme an ECU
- › How to carry out an end of line test
- › How to use the EB+ Info Centre 2

Day 2 - Bring your laptop !

- › EB+ Soft Docking operation
- › COLAS+ operation
- › Setting up of the trailer ECU using a laptop
- › Carry out DTC download procedure
- › Carry out various programming operations
- › Carry out E.O.L.T
- › Demonstration of Fleet+
- › Haldex Automatic Brake Adjuster (ABA) - removal / installation / functional test

A multiple choice test will be given at the end of the course and a certificate issued accordingly.

1. Objective

Refresh and remaster the DIAG+ programming.

Understanding and demonstrate the ability to calculate advanced lift axle settings.

Understand the added features of Traction assist and extended lift axle data.

Diagnose / configure and install the Soft Docking 2 system components including repair.

Diagnose / configure and install the Tyre Pressure Monitoring System (TPMS) components including repair.

2. Attendees

Workshop Engineers and Technicians who have previously attended the full 2 day EBS Training Course and wish to further their knowledge on EBS systems.

Location and date		Lecture times	Cost
MIRA Nuneaton:	25 March 2020	09:00 – 12:30 13:00 - 17:00	£275 +VAT
Newton Aycliffe:	27 May 2020	09:00 – 12:30 13:00 - 17:00	£275 +VAT
Newton Aycliffe:	23 September 2020	09:00 – 12:30 13:00 - 17:00	£275 +VAT
MIRA Nuneaton:	28 October 2020	09:00 – 12:30 13:00 - 17:00	£275 +VAT

* The course will run subject to adequate bookings

3. Certificates

A certificate will be issued on successful completion of the course.

Programme of information

1 day's training split into two sessions covering the following:

DIAG+

- › Recap of DIAG+ programme
- › Diagnosing using the EB+ DIAG+ programme on the PC
- › Setting up the trailer ECU using the laptop
- › How to programme / re-programme the ECU
- › Carry out various programming operations
- › How to carry out an EOLT
- › Carry out an EOLT
- › Lift Axle settings including understanding and calculating raise and lower percentages / Traction Assist and Extended lift axle data
- › Additional EBS functions including Electronic Brake Demand (EBD) / TCAN / CAN Brake

TPMS & Soft Docking

- › System operation
- › Component overview
- › Component connections and installation
- › Configuration and setup
- › Fault diagnosis and repair

Service Course Application Form



Attendee

Mr / Ms:.....

Mr / Ms:.....

Mr / Ms:.....

Mr / Ms:.....

Company

Company name:

Address:

.....

Town:

County:

Post code:.....

Telephone No:.....

Fax No:

E-Mail:

Authorised By:

Invoice

Company name:

Address:

.....

Post code:.....

Contact name:.....

Position in the company.....

Telephone No:.....

Fax No:

E-Mail:

Order No:

Haldex Limited

Unit 7, Parsons Court, Welbury Way, Aycliffe Business Park, Newton Aycliffe, DL5 6ZE, United Kingdom

Tel.: +44 1325 310 110

E-mail: info.GBAy@Haldex.com

Please fill in the form:

> Course attending:

.....
.....

> Date of course:

.....
.....

> Location of course:

.....
.....

> EB+ Software Required:

All fees are to be paid for prior to attending course

Please return your completed application to karen.lowes@haldex.com

Company seal

Date and signature

Haldex develops and provides reliable and innovative solutions focused on brake and air suspension products to the global commercial vehicle industry. In 2018, the company had net sales of approximately SEK 5.1 billion and employed 2,309 people.



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