

Training Course Programme

2010

Haldex



ABS/EBS System Training



Purpose of the Training Courses:

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

COURSE DURATION:	1 Day
LECTURE TIMES:	09.00–12.30 13.00–17.30
COST OF COURSE	£195.00

LOCATION & DATES:

Newton Aycliffe	16 February 20 July 16 November
Redditch*	20 April 19 October

* Course will run subject to adequate bookings.

1 Objective

- To be able to recognise, diagnose and rectify/replace components relating to air systems, and electrical systems on ABS.

2 Attendees

- Workshop engineers
- Persons with a basic understanding of pneumatic systems.

3 Documentation issued

- Workshop manuals on modal & modular
- Manual on related pneumatic valves
- Wall charts & handouts.

4 Certificates

- A certificate on the basics of ABS systems will be issued on completion of in-house courses only
- On site courses are available on request at a cost of £475.00+ VAT plus £85.00 per night hotel accommodation if required. No certificates are issued for on site courses

Presentation

- Introduction to Haldex Ltd

Systems ABS MGX/Modal/Modular

- Function & Operation of:
 1. Park & shunt valves
 2. Relay emergency valves
 3. Load sensing valves
 4. Modulator valves
 5. Quick release valve
 6. Double check valve
 7. Lift axle valves
- Calculating and setting procedure of load sensing valve.
- Preventative maintenance, fault finding on
 - MGX systems
 - Modal systems
 - Modular systems
- Interpretation of fault codes on modal/modular
- Function & operation of Info CTR/DDU

COURSE DURATION:	2 Day
LECTURE TIMES:	09.00–12.30 13.00–17.30
COST OF COURSE	£375.00

LOCATION & DATES:

Newton Aycliffe	20/21 January	21/22 July
	17/18 February	18/19 August
	24/25 March	22/23 September
	19/20 May	17/18 November
	16/17 June	8/9 December

Redditch*	21/22 APRIL	20/21 October
-----------	-------------	---------------

* Course will run subject to adequate bookings.

1 Objective

To understand the basic function of EBS

- To be able to diagnose and rectify/replace the different components – faults on EBS systems
- To be able to replace these components and programme/re-programme ECU using PC or Info CTR.

2 Attendees

- Workshop engineers
- Persons with an understanding of EBS/ABS systems.

3 Documentation issued

- Complete workshop manual for EB+ including diagnostic and info centre
- Wall charts
- Update of software where required.

4 Certificates

- A certificate on the basics of EBS systems will be issued on completion of in house courses only
- On site courses are available on request at a cost of £475.00 + VAT plus £85.00 per night hotel accommodation if required. No certificates are issued for on site courses

Presentation

- Introduction to Haldex Ltd

System EBS – EB+

Stage 1 – Day 1

Introduction to the various components of EB+

- Identifying valve assemblies (i.e. 1m + 2m systems)
- The function of the modulator valves
- Understanding the piping + wiring circuits of the systems
- Understanding the function of the Trailer Control Module (TrCM)
- Understanding the operation of the roll stability function

Stage 2 – Day 2

- Diagnosing using the EB+ diag programme on PC
- How to programme/re-programme an ECU
- How to carry out an end of line test
- How to use the info centre correctly
- A multiple choice test will be given at the end of the course and a certificate issued accordingly.

Note: Day 2 will be hands on. Bring your laptops for this, if possible.

Haldex Automatic Slack ADJ



Programme of Information

This course is held in conjunction with ABS – MGX/MODAL/MODULAR

COURSE DURATION: 1 Hour

LECTURE TIME: 11.30–12.30

COST INCLUDED IN ABS COURSE

LOCATION & DATES:

Newton Aycliffe	16 February
	20 June
	16 November

Presentation

- History of the Automatic Slack Adjuster

Installation

- Correct setting and location of brake chamber
- Removal of slack adjuster and camshaft assembly
- Correct installation and setting up of Auto-Slack Adjuster and anchor brackets

Maintenance

- Checking for correct brake shoe/drum clearances
- Checking for correct function of adjuster
- Checking control unit function and location
- Servicing instructions

1 Objective

To be able to install, maintain & rectify/replace components relating to Haldex Auto-Slack Adjusters.

2 Attendees

- Workshop engineers
- Persons with a basic understanding of mechanics.

3 Documentation issued

- Installation manuals
- Wall charts.

4 Certificates

- A certificate on the basics of Haldex Auto-Slack Adjuster installation + maintenance will be issued on completion of in-house courses only.

Service Course Application Form



Programme of Information

Attendee's Name/s (PLEASE PRINT)

1.....
2.....
3.....

Company Name:

Address:

.....

.....

Post Code:

Telephone No:.....

Fax No:

E-Mail Address:.....

Invoice Address

Company Name:.....

Address:

.....

.....

Post Code:

Contact Name:

Position In Company:

Telephone No:.....

Fax No:

E-Mail Address:.....

Order No:

EB+ software may be purchased when attending courses.
Please ask for further details.

Haldex Ltd.
Newton Aycliffe
United Kingdom
Tel.: +44 1325 310 110
Fax: +44 1325 311 834
E-Mail: info.GBAy@Haldex.com

Commercial Vehicle Systems

Please Return Your
Completed Application To:
Fax No.: 01325 311 834

F.A.O. Karen Lowes
karen.lowes@haldex.com
Contact No.: 01325 310 110

Type Of Course Required:

ABS

EB+

Date Of ABS Course:.....

Date Of EBS Course:.....

EB+ Software Required

Qty:.....

**All Fees Are To Be Paid For
Prior To Attending Course**

Authorised By:

.....

Signature:

.....

Print Name:

.....

Date:

.....



www.haldex.com

Haldex (www.haldex.com), headquartered in Stockholm, Sweden, is a provider of proprietary and innovative solutions to the global vehicle industry, with focus on products in vehicles that enhance safety, environment and vehicle dynamics.

Haldex is listed on the Stockholm Stock Exchange. Haldex has a yearly turnover of close to 8.5 billion SEK and employs 4,700 people.

Austria

Haldex Wien Ges.m.b.H.
Vienna
Tel.: +43 1 8 69 27 97
Fax: +43 1 8 69 27 97 27
E-Mail: info.AT@Haldex.com

Belgium

Haldex N.V.
Balegem
Tel.: +32 9 363 90 00
Fax: +32 9 363 90 09
E-Mail: info.BE@Haldex.com

Brazil

Haldex do Brasil Ind. E Com. Ltda
São Paulo
Tel.: +55 11 213 55 000
Fax: +55 11 503 49 515
E-Mail: info.BR@Haldex.com

Canada

Haldex Ltd
Guelph, Ontario
Tel.: +1 519 826 7723
Fax: +1 519 826 9497
E-Mail: info.CA@Haldex.com

China

Haldex International Trading Co. Ltd.
Shanghai
Tel.: +86 21 5240 0338
Fax: +86 21 5240 0177
E-Mail: info.CN@Haldex.com

France

Haldex Europe SAS
Weyersheim (Strasbourg)
Tel.: +33 3 88 68 22 00
Fax: +33 3 88 68 22 09
E-Mail: info.EUR@Haldex.com

Germany

Haldex Brake Products GmbH
Heidelberg
Tel.: +49 6221 7030
Fax: +49 6221 703400
E-Mail: info.DE@Haldex.com

Hungary

Haldex Hungary Kft.
Szentlőrincváta
Tel.: +36 29 631 300
Fax: +36 29 631 301
E-Mail: info.HU@Haldex.com

India

Haldex India Limited
Nasik
Tel.: +91 253 2380094
Fax: +91 253 2380729
E-Mail: info.IN@Haldex.com

Italy

Haldex Italia Srl.
Biassono (Milan)
Tel.: +39 039 47 17 02
Fax: +39 039 27 54 309
E-Mail: info.IT@Haldex.com

Korea

Haldex Korea Ltd.
Seoul
Tel.: +82 2 2636 7545
Fax: +82 2 2636 7548
E-Mail: info.KR@Haldex.com

Mexico

Haldex de Mexico S.A. De C.V.
Monterrey
Tel.: +52 81 8156 9500
Fax: +52 81 8313 7090

Poland

Haldex Sp. z o.o.
Praszka
Tel.: +48 34 350 11 00
Fax: +48 34 350 11 11
E-Mail: info.PL@Haldex.com

Russia

OOO Haldex RUS
Moscow
Tel.: +7 495 747 59 56
Fax: +7 495 786 39 70
E-Mail: info.RU@Haldex.com

Spain

Haldex España S.A.
Granollers
Tel.: +34 93 84 07 239
Fax: +34 93 84 91 218
E-Mail: info.ES@Haldex.com

Sweden

Haldex Brake Products AB
Landskrona
Tel.: +46 418 47 60 00
Fax: +46 418 47 60 01
E-Mail: info.SE@Haldex.com

United Kingdom

Haldex Ltd.
Newton Aycliffe
Tel.: +44 1325 310 110
Fax: +44 1325 311 834
E-Mail: info.GBAy@Haldex.com

Haldex Brake Products Ltd.
Redditch
Tel.: +44 1527 499 499
Fax: +44 1527 499 500
E-Mail: info.GBRe@Haldex.com

USA

Haldex Brake Products Corp.
Kansas City
Tel.: +1 816 891 2470
Fax: +1 816 891 9447
E-Mail: info.US@Haldex.com

©2010, Haldex AB. This material may contain Haldex trademarks and third party trademarks, trade names, corporate logos, graphics and emblems which are the property of their respective companies. The contents of this document may not be copied, distributed, adapted or displayed for commercial purposes or otherwise without prior written consent from Haldex.

