DIAGNOSTICS
GUIDE 2023

MASTERS OF MOTION

Partner with Delphi

Visit the **Masters of Motion hub**
for more information

delphiaftermarket.com

PHINIA

Delphi

Contents

Advanced diagnostic solutions
The BlueTech VCI difference

Flight recorder:
Perfect for a one-man road test. Select your parameters, hit "Record" and review when back in the workshop. With its 4 GB internal storage capability, enjoy even more space to record all the data you need.

360° Multi colour indicator: :
Lets you check the status of the VCI at any time from every angle and position.

Universal:
VCI can be used for cars, light commercial vehicles, trucks, buses & coaches, trailers.

Battery voltage monitor:
Don't let a dead vehicle battery stop you working.

BlueTech

Discover the
next generation of diagnostics.

The **BlueTech VCI** is an innovative, easy to use **diagnostic tool** providing workshops with an extensive suite of **diagnostic interrogations**, **real world data**, and **more**.

"By making various diagnostic features integrated where they weren't before, we recognise workshops' need to have these functions at the ready for more and more models that have advanced technology as standard."
- Jean-François Bouveyron, Vice President EMEA, Delphi Aftermarket.

WIFI & Bluetooth connectivity to the PC:
Wireless communication providing freedom to work anywhere in the workshop, whilst maintaining a seamless connection to the vehicle.

Integrated DoIP:
No need of any DoIP adaptor cable. With its built-in functionality, the VCI can be plugged directly on DoIP communicating vehicles.

Pass-thru support:
Quick and easy access to OEM flash-programming services.

CAN FD channels
Future-proof design to make the diagnostic possible on vehicles requiring this data-communication protocol.
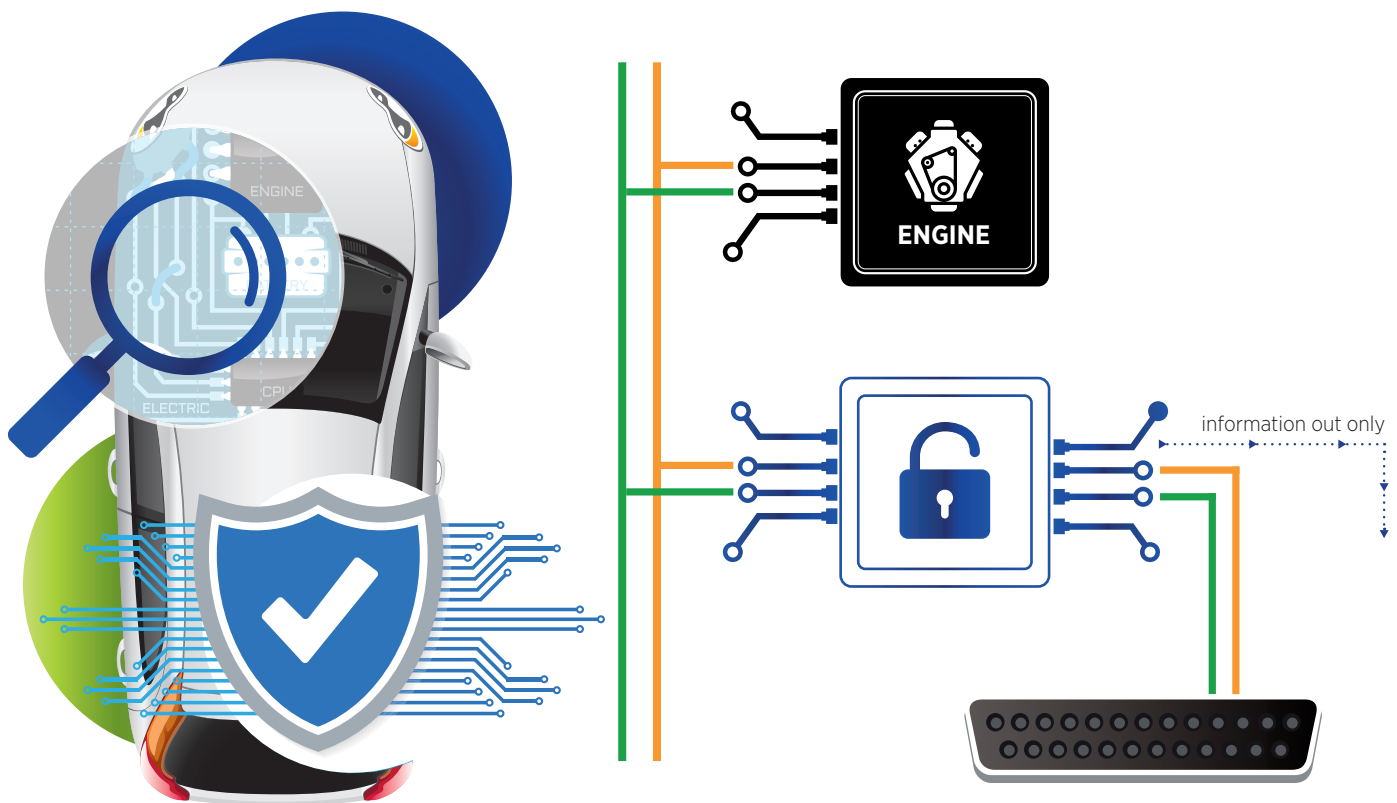
Find out more about **BlueTech**
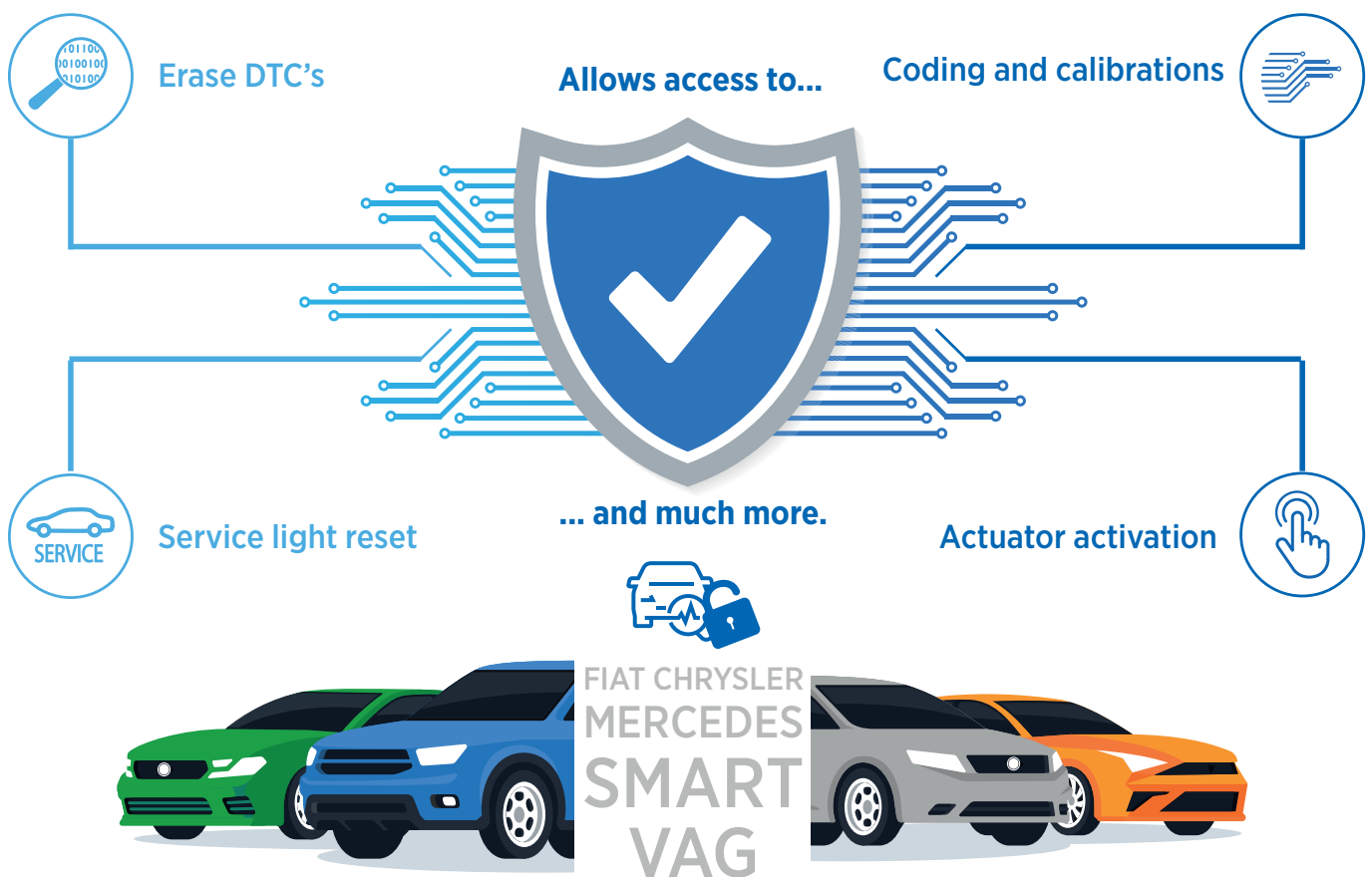- scan the QR code!

Security Gateway
What is it?

Certain vehicle manufacturers have implemented a secure gateway module to protect safety critical ECUs. The access to some diagnostic functions is restricted and requires registration and authentification through an approved service.

information out only

Security Gateway
Access to the full capacity

DS BlueTech software grants access to protected functions and full diagnostic capability for the latest **FCA, VAG, Mercedes** and **Smart** vehicles fitted with the **security gateway.**

Erase DTC's

Allows access to...

Coding and calibrations

Service light reset

... and much more.

Actuator activation

FIAT CHRYSLER
MERCEDES
SMART
VAG

BUILDING YOUR
DIAGNOSTIC PACKAGE
WITH DELPHI COULDN'T
BE EASIER.

Just follow 4 simple steps:

1. Select your **hardware**

2. Select your **software**

3. Select your **data** (optional)

4. Select your **learning package** (optional)

Tick off your choices in the order list down the right hand side.

Scan QR code to build **your diagnostics package**

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CAR HARDWARE

SV60250 | DS180
VCI Only Kit*
£1775

SV60251 DS480
VCI + Tablet Kit
£3095

*Refer to **'Additional Information'** if using
your own tablet or PC on page 59

Let's take a
closer look...

ACTIVE PEN

NEW SURFACE PRO7+ TABLET

TABLET SPECIFICATIONS

Model	Screen size	Processor	Memory	Battery life
Microsoft Surface Pro 7+	12.3"	Quad-core 11th Gen, i5	8GB / 128GB	6+ hours when in use

Main connections	Camera	Wireless	Weight:	Colour
1 x USB-C 1 x USB-A Internal micro SD	Front: 5 MP Rear: 8 MP	WiFi 6, BT 5.0	770g (tablet only)	Black

...LOADING THE NEXT GENERATION OF DIAGNOSTICS...

Delphi Technologies

The **new DS tablet** is designed to **support any diagnostic operations**, providing workshops the opportunity to **maximise revenue** and **growth potential**. **We commit to support workshops** with the best technologies and functionalities required to carry out the **highest quality repairs.**

USB-C CABLE

DETACHABLE USB HUB

SAFETY HAND STRAP

BUILT IN STURDY CASE STAND
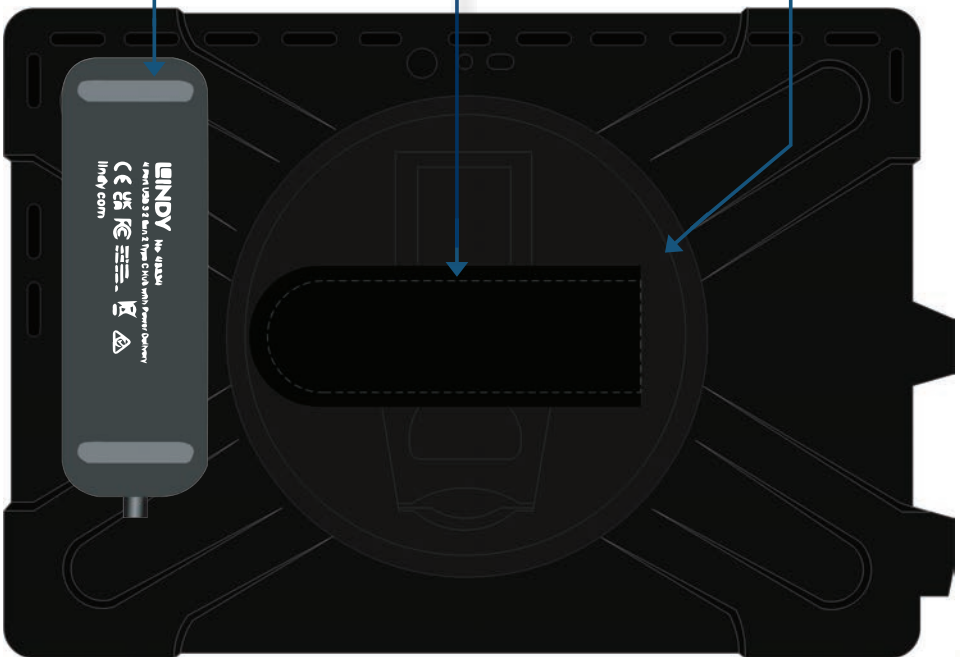
RUGGED PROTECTIVE CASE

2-POINT SHOULDER STRAP
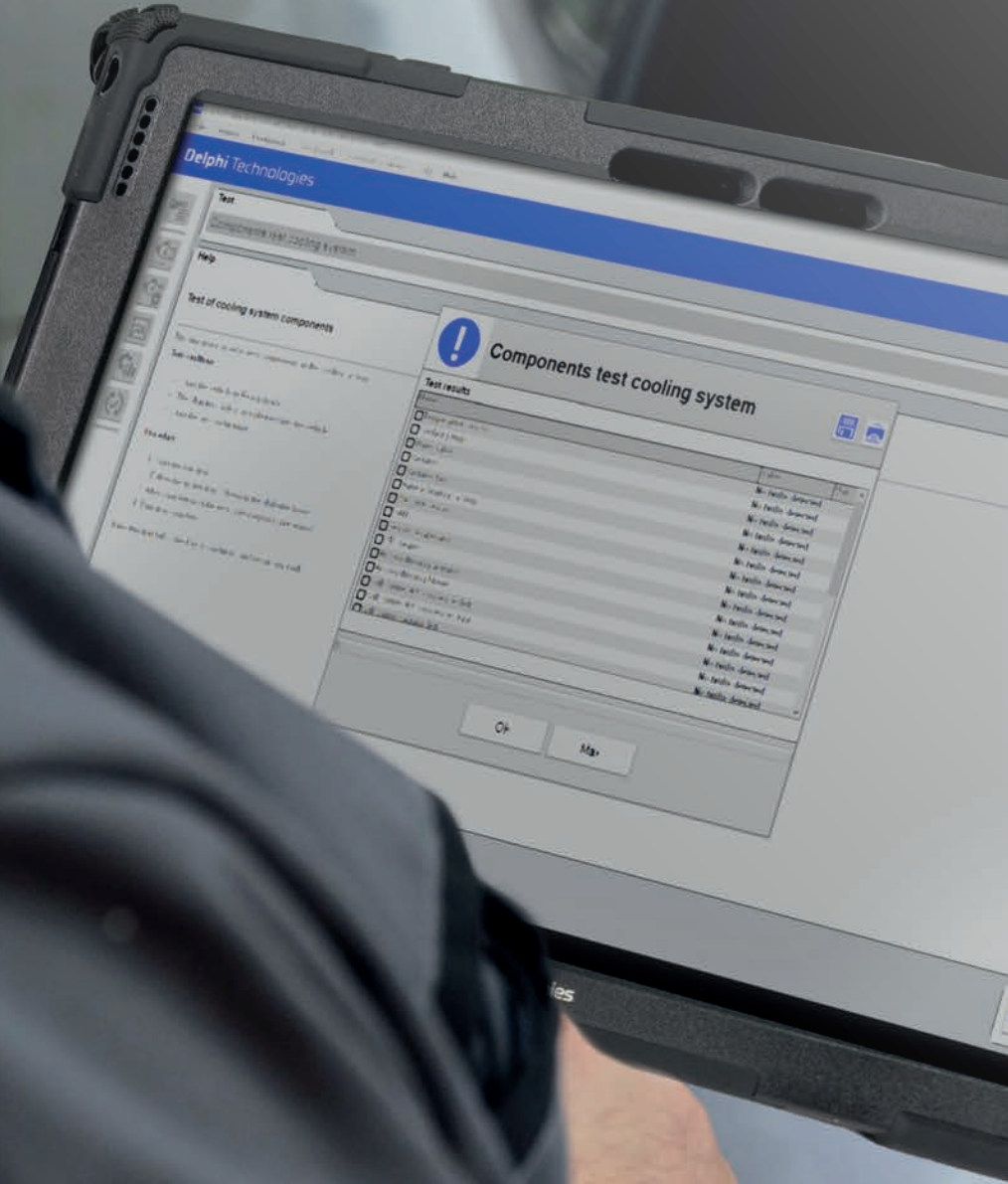
DS180
Car Kit Exchange
£1785*
(Save £621.25)

SV60250EX DS180 VCI Only Kit* | £1153.75*

SV60270 BlueTech 1Yr License* | £631.25*
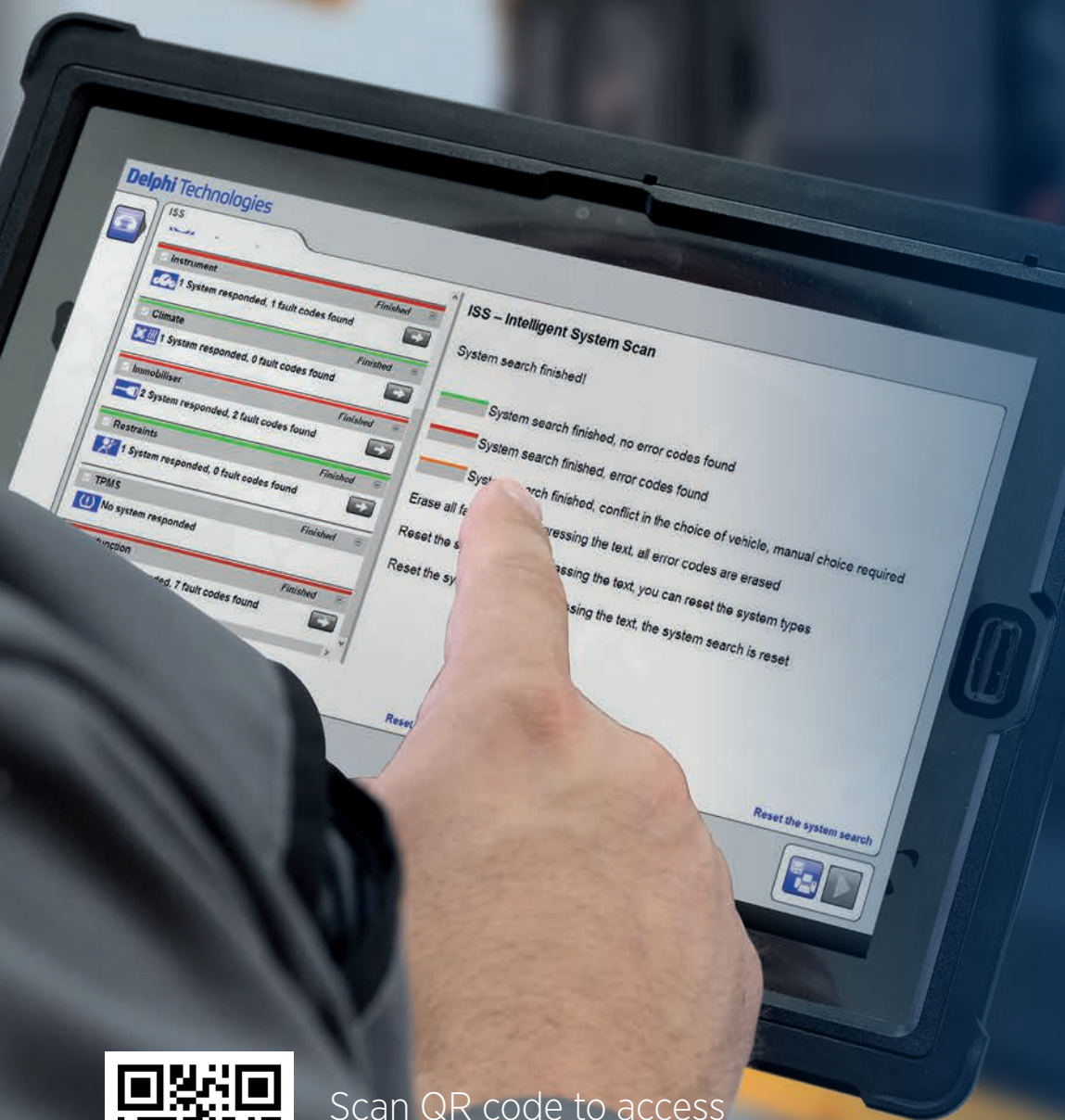
including multiple updates throughout the year.

CAR SOFTWARE

BlueTech
Car Software

Scan QR code to access
free diagnostics training**

**Only with an active licence.

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Delphi

LIFETIME VCI WARRANTY
with uninterrupted active
software license

Part No.	License Type	Functionalities	Price
SV60270	**BlueTech 1 Year License***	Service Light Reset / Petrol / Diesel	**£631.25**
SV60271	**BlueTech 2 Year License***	Gearbox / Climate / Multifunction	**£1205**
SV60272	**BlueTech 3 Year License***	Airbag / Dashboard	**£1595**
SV60273	**BlueTech 5 Year License***	ABS / Immobiliser / Technical Data / EV / Security Gateway / ADAS	**£2260**

* VTI Basic and free diagnostics training included with an active licence.

Delphi
Technologies

Aftermarket > Direct Evolution

Catalogues | Application | Passenger Cars | Mercedes-Benz | GLK (X204) | 250 CDI 4MATIC BlueEFF, Blue

Documentation

Choose

Parts

Choose

Overview

Maintenance

Repair Data

Electronics

SmartPACK — 33

Delphi Technologies Parts — 60

Delphi Technologies Documents — 5

Most used

Repair Times

Timing chain: removal/installation

Adjustment Data

delphiaftermarket.com

CAR TECHNICAL DATA
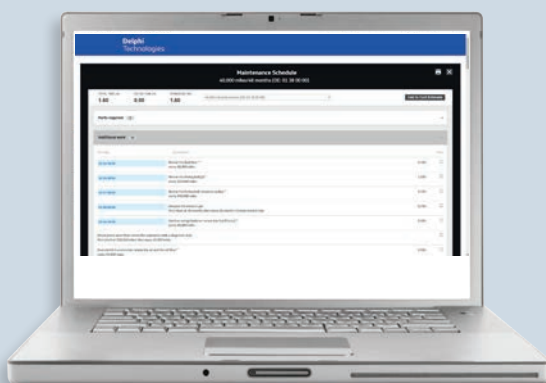
Basic Pack includes:

Torque figures and technical drawings – Torque figures are shown in a drawing format, this makes it much easier for the technician to locate the correct data. This is especially important when dealing with complicated multi-link suspension.
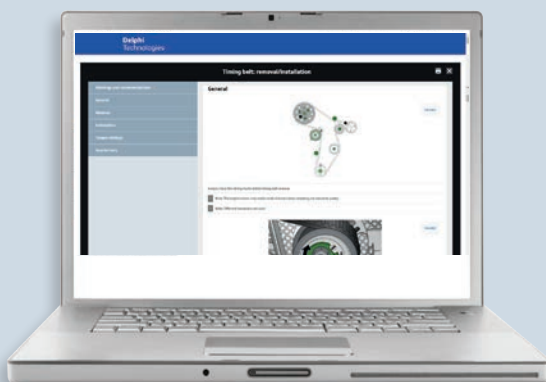

OE service and maintenance schedules – with the OE service number shown.

Timing belts / chain and repair manuals – VTI offers full guided repair manuals included timing belt / chain instructions, Transmission, Steering and Suspension, Brakes, plus Interior and Exterior trim instructions.

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What's included in the
CAR package?

Delphi VTI (Vehicle Technical Information) is a powerful platform which is available as either a standalone package, or one that integrates directly into your DS diagnostic tool. It is available for CAR (Car, Light Commercial), and HEAVY DUTY (Truck, trailer).

SV11510	**VTI Car Ultimate** (DS-User)	**£530***
SV60135	**VTI Car Ultimate** (Standalone)	**£560***
SV60207	**VTI Car Ultimate 3 Years** (DS-User) *Save £297.50*	**£1285***
SV60161	**VTI Car Ultimate 3 Years** (Standalone) *Save £225*	**£1450***

| **Basic Pack Free** **with DS Subscription:**	**Ultimate Pack** **+ Technical Pack** **+ Smart Pack** **+ Basic Pack:**
Identification.	Fuses & relays.
Maintenance.	Technical drawings.
Repair manuals.	SmartFIX (Technical Service Bulletins).
Adjustment data.	SmartCASE (verified fixes & tips).
Cambelt and timing chain.	**VESA**
Lubricants & fluids.	VESA (guided diagnostics of components) 90% of UK vehicle parc coverage.
Recalls.	Repair times.
Assessing the high voltage system.	Comfort wiring diagrams.

Scan QR code to link your
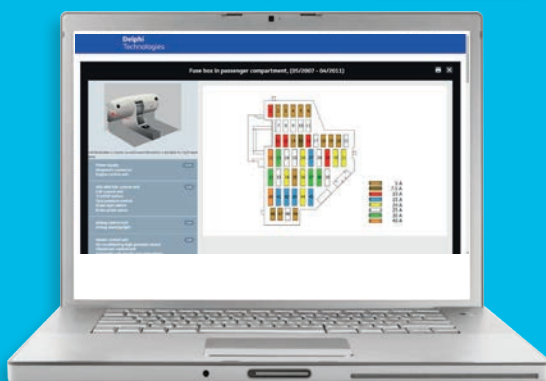**VTI BASIC TO YOUR DS LICENSE**

Ultimate Pack includes:

The ability to search multiple DTC's. VTI will then instantaneously check all entered codes against:

– OEM VOSA recalls.

– Known manufacturer bulletins (OEM TSB's)

– Aftermarket known cases.

– Guided diagnostics database.
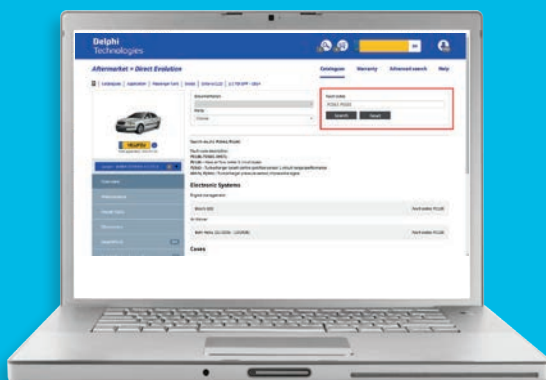
Fuses and relay locations - easy to locate, and identify correct fuses, relays, bus bars and more.

Full guided diagnostics from both fault codes, and component troubleshooting.

Includes detailed information at each stage for the technician.

Wiring diagrams – diagrams which make troubleshooting easier.

Whatever vehicle you are working on with the DS software, just press the "I" button and it will carry over that vehicle ID and present you with all the technical information relevant to that particular vehicle.

(Previously only available via a DS tool, this can now be purchased as a standalone product with no need for a Delphi DS tool)

Contact your distributor for a **FREE 30 DAY TRIAL**

Ultimate VTI Car upgrades are supplied with not just 1 license for the DS diagnostic tool, but an additional 2 sessions can be held simultaneously as well. The additional sessions can be live on various workshop computers. As a standalone product, 3 simultaneous sessions can be held.

Full vehicle registration search covering vehicles up to 3,500KG, with full UK VRM decryption.

ENTER REG

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TRUCK HARDWARE

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SV60293 DS180 VCI + Cables Kit £2710

SV60258 DS480 VCI, Tablet + Cables Kit £4150

SV11339 + SV11447 include the following cable*:

38 Pin Iveco	16 Pin DAF/Scania	9 Pin Cummins
30 Pin Iveco	12 Pin MAN	3 Pin Fiat
14 Pin Mercedes	37 Pin MAN	16 Pin Mitsubishi Fuso/Canter
8 Pin Volvo	12 Pin Renault	Power Adaptor Cable

*Refer to **'Additional Information'** if using your own tablet or PC on page 59
*Refer to the **Car Hardware** section if only interested in a kit without additional cables on page 13

TRUCK SOFTWARE

BlueTech
Truck Software
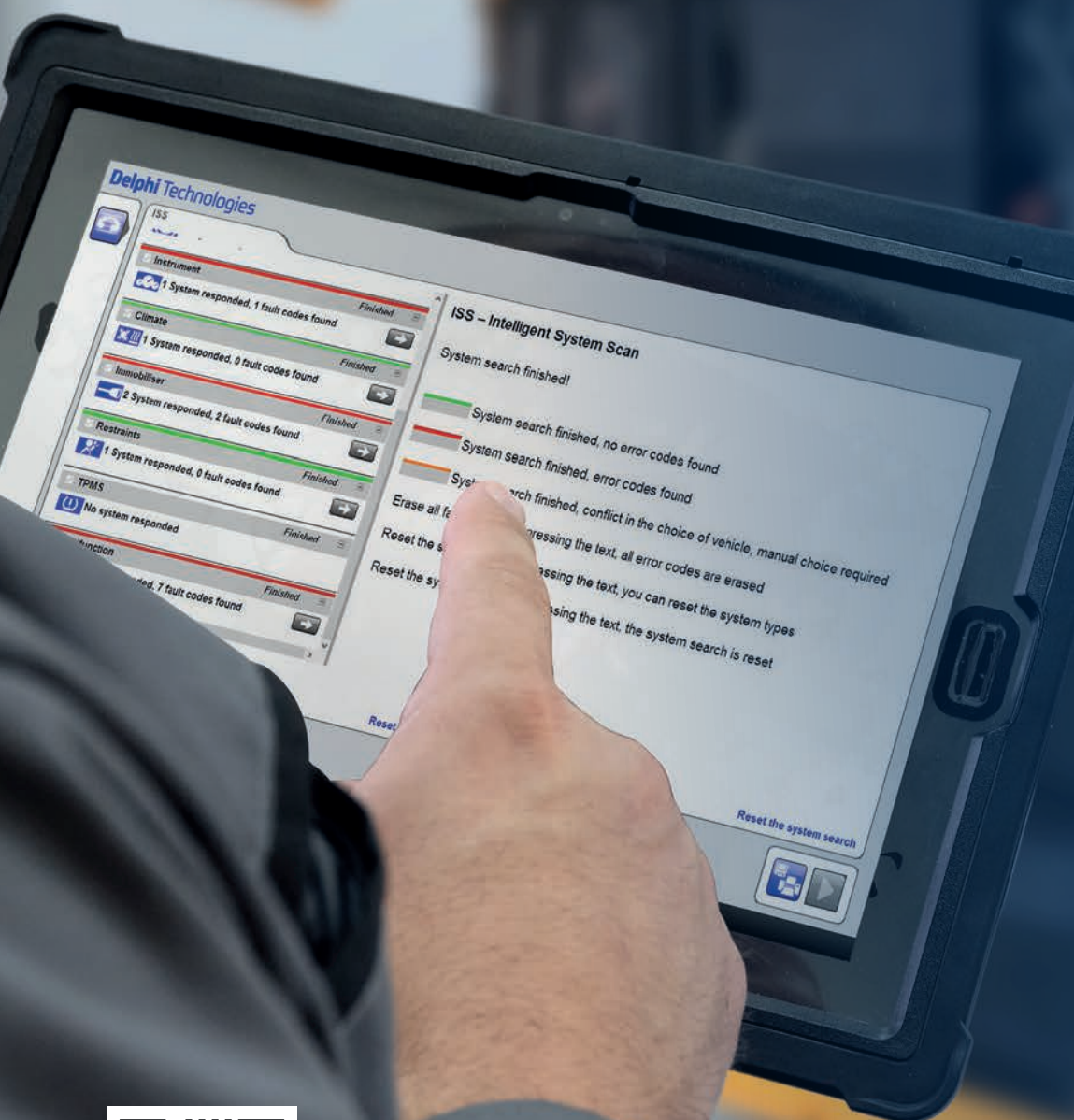
Scan QR code to access
free diagnostics training**

delphiaftermarket.com

LIFETIME VCI WARRANTY
with uninterrupted active
software license

Part No.	License Type	Functionalities	Price
SV60275	**BlueTech HD1yr Licence***	Service Light Reset / Petrol / Diesel	£735
SV60276	**BlueTech HD 2Yr Licence***	Gearbox / Climate	£1235
SV60277	**BlueTech HD 3Yr Licence***	Multifunction / Airbag / Dashboard	£1625
SV60278	**BlueTech HD 5Yr Licence***	ABS / Immobiliser / Technical Data / EV / AdBlue	£2395

Functionalities listed:
- Service Light Reset
- Petrol
- Diesel
- Gearbox
- Climate
- Multifunction
- Airbag
- Dashboard
- ABS
- Immobiliser
- Technical Data
- EV
- AdBlue

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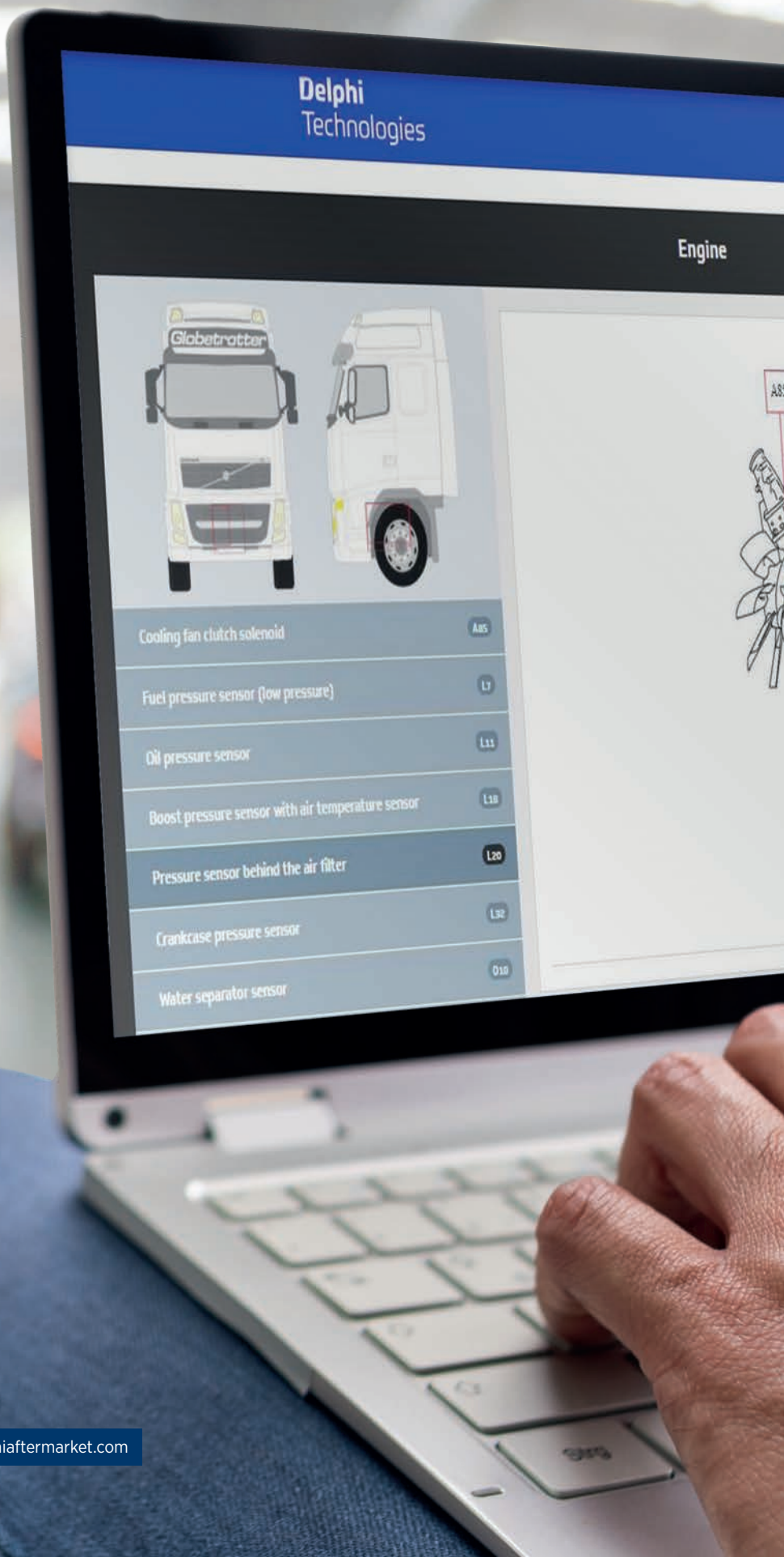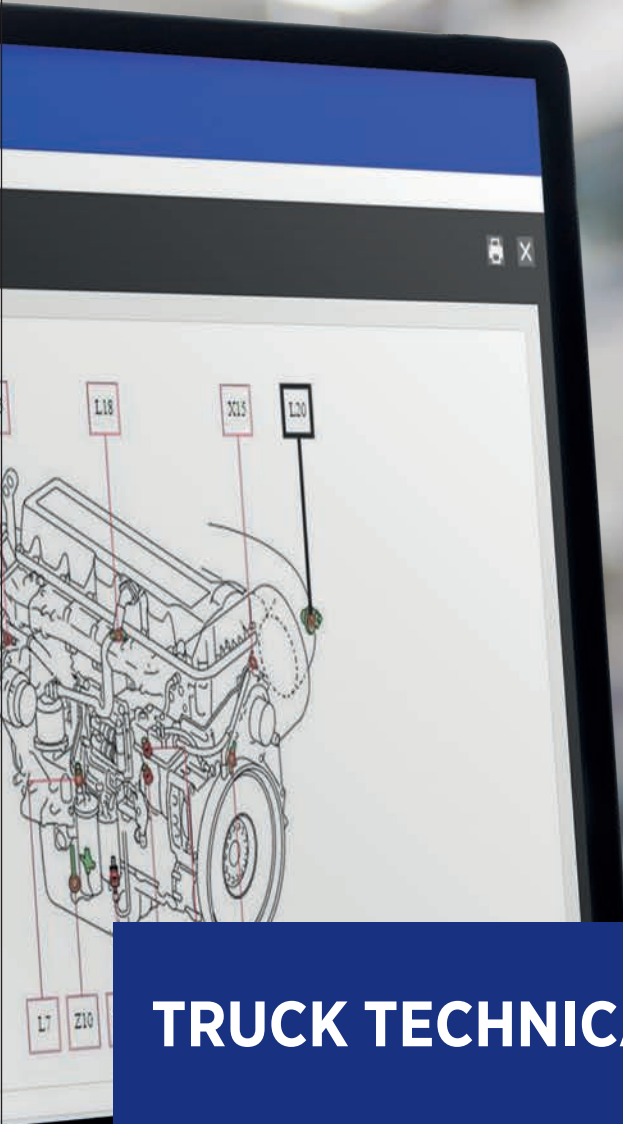
TRUCK TECHNICAL DATA

VTI Professional
SV11518 £285*

- Service Reset
- Maintenance Schedules and Procedures
- Repair Manuals
- Adjustment Data
- Lubricants & Fluids
- Torque Settings
- Tyre Pressure Monitoring System

VTI Business
SV11519 VTI £530*
Professional Functions +

- VESA (guided diagnostics of components)
- Component Testing
- Repair Times
- Wiring Diagrams.
- Electronic Procedures
- Fuses & Relay Locations
- Technical Drawings
- SmartFIX (Truck Recalls Only)
- Earth Point and ECU Locations
- OBD Socket Locator

VTI Ultimate
SV11520 VTI HD £640*
Ultimate 1 Year

SV60163 VTI HD £1495*
Ultimate 3 Years (save £425)
Professional & Business Functions +

- Heavy Commercial Vehicles (HCVs)
- Light Commercial Vehicles (LCVs)
- 2 additional simultaneous sessions
- SmartFIX (Technical Bulletins)
- SmartCase (Verified fixes & tips)

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Delphi VTI (Vehicle Technical Information) is a powerful platform which is available as either a standalone package, or one that integrates directly into your DS diagnostic tool.

It is available for CAR (Car, Light Commercial), and Heavy Duty (Truck, trailer)

What's included in the
HEAVY DUTY package?

The HD package is available in 3 levels.

1. VTI Truck Professional

Maintenance items, including service schedules, adjustment data and lubricants, torque settings and repair manuals.

2. VTI Truck Business

As professional PLUS wiring diagrams (ABS and Engine management), repair times.

3. VTI Truck Ultimate

As Professional & Business PLUS Light commercial vehicles, additional 2 licences to be used simultaneously.
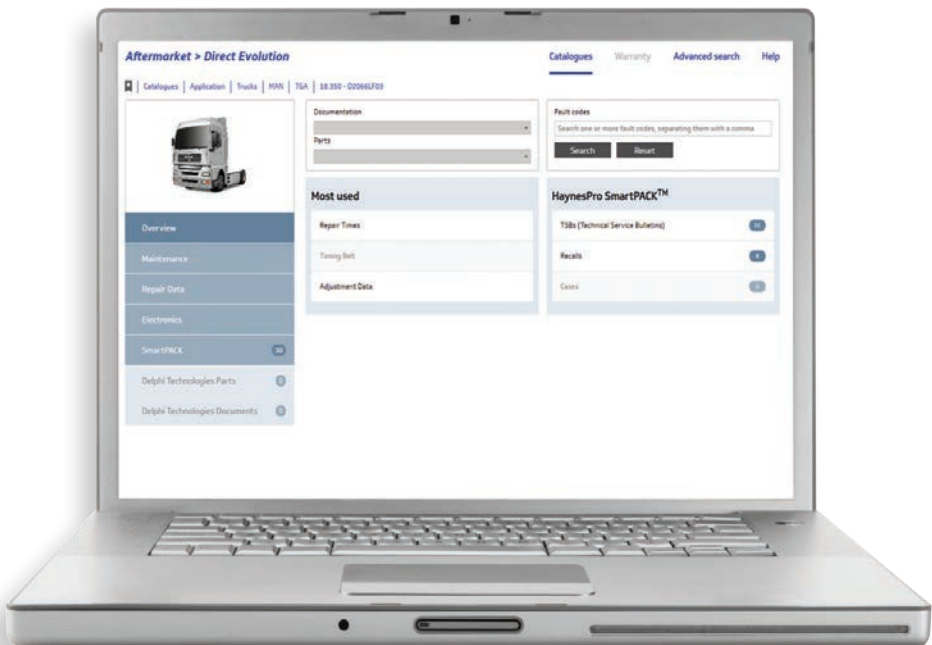
Includes detailed information on all leading truck manufacturers in Europe:

– DAF	– Isuzu	– Mercedes Benz	– Nissan	– Renault	– Volvo
– Iveco	– MAN		– Mitsubishi	– Scania	

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ADAS

SV60210
CRC-150
ADAS Base Kit
£7000*

Delphi's advanced Driver Assistance Systems (ADAS) calibration solution provides a comprehensive and easy to use system allowing the workshop to confidently and reliably calibrate sensors to OEM compliant specifications. Designed to provide **safety** and **comfort** while driving, **Advanced Driver Assistance Systems (ADAS)** are becoming increasingly common in latest generation vehicles.

These vehicles can be equipped with over **10 different types of environment monitoring functions**, utilizing different **detection methods** & **sensors**. These essential functions for both **safety** and **comfort** can need calibrating as a result of **diagnostics**, **service**, **replacements**, and **repairs**.

BASE KIT (CRC-150) CONTENTS
Main rig fitted with 1 x lateral mobility unit.
Horizontal bar with 2 x fixed lasers.
2 x self-centreing wheel clamps.
2 x stretcher arms & plastic rim locking pins.
2 x scales with mirrors and tape measure holders.
2 x measure tapes.
1 x Line laser unit.
1 x ADAS Cars TFR-2 radar reflector + laser distance meter .
1 x Line laser unit.
1 x ADAS Cars TFR-2 radar reflector + laser distance meter.
Accessories storage box.
1 x rails kit for sliding targets.

ADAS
Target Boards:
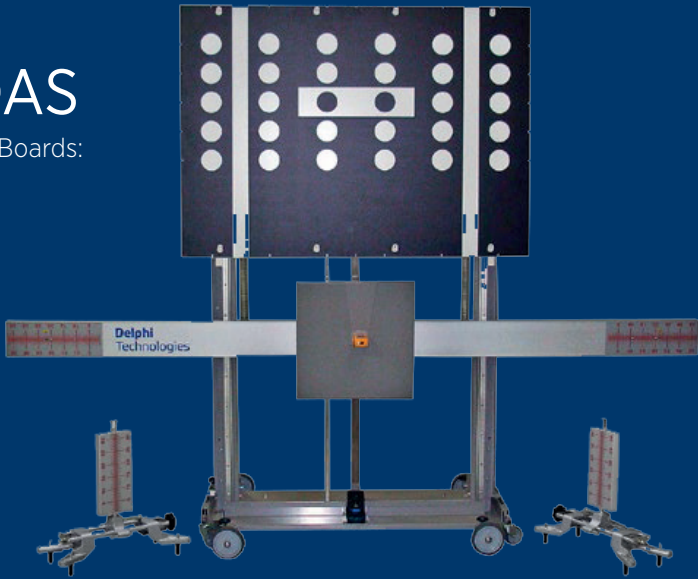
Includes the following target boards:

SV60211 VAG/Mercedes Board	**£355***
SV60212 Renault/PSA Board	**£355***
SV60213 FCA/Alfa Romeo Board	**£355***
SV60214 Nissan/Mazda 1 Board	**£355***
SV60215 Mazda 2/Mitsubishi Board	**£355***
SV60216 Toyota 1/Toyota 2 Board	**£355***
SV60239 Rails Kit	**£265***
SV60220 Target Boards 'Starter Kit'	**£1280***
includes: SV60211, SV60212, SV60213 & SV60216	

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TRAINING SOLUTIONS
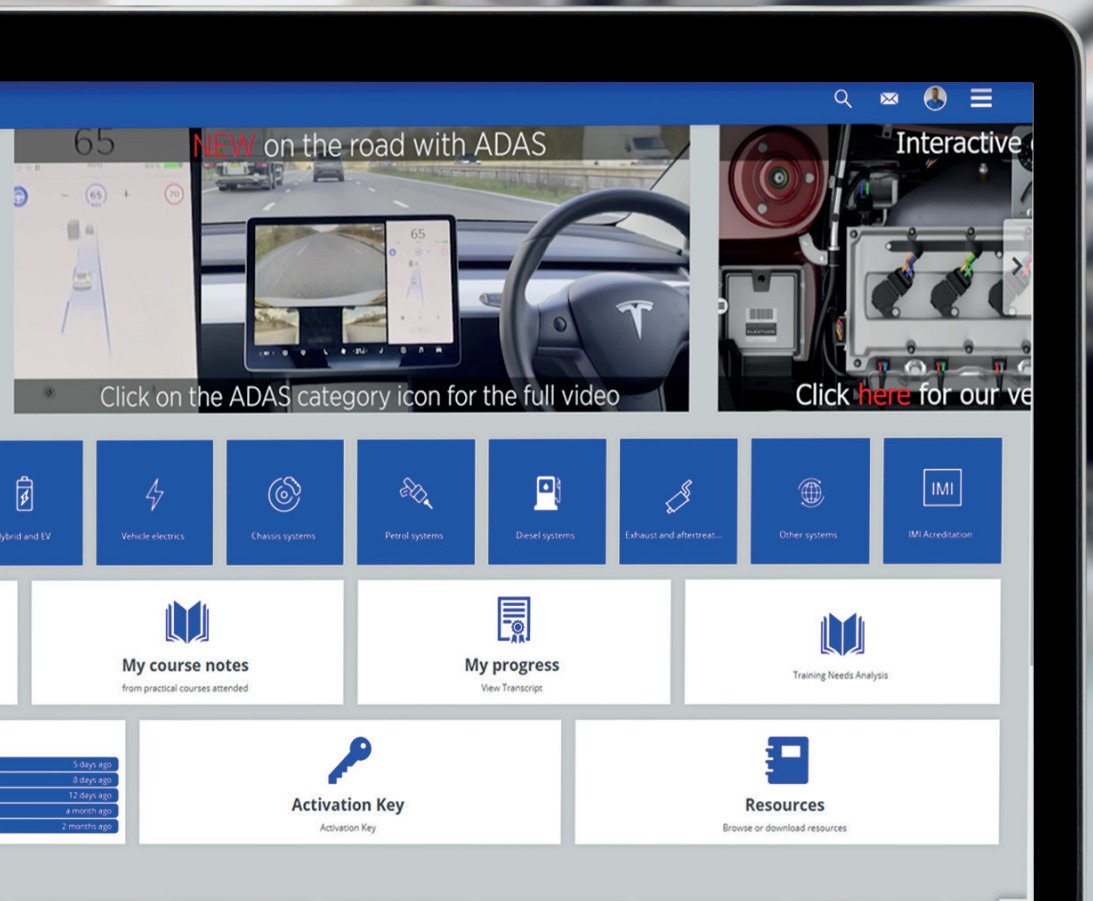
MERLIN DIESEL SYSTEMS

DELPHI ACADEMY

Online learning platform
£220*
*12 months access

HYBRID & ELECTRIC VEHICLES	ADAS	EXHAUST & AFTERTREATMENT	PETROL SYSTEMS

Built for **technicians** by **technicians**	**Unique Training Needs** Analysis
300+ learning modules	Easy to **navigate**
Real world content	**Training** from the **OEM**

What is the Delphi Academy?

An e-learning platform that provides technicians with the ability to enhance their skills and knowledge across a wide range of topics. From the very latest technology such as Hybrid/EV & ADAS right through to servicing traditional braking systems – it's all covered!

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LEARN ANYTIME.

Schedule your courses

Keep track of your progress

Exclusive training resources

Record course notes

News updates

DIESEL SYSTEMS

CHASSIS SYSTEMS

DS DIAGNOSTICS

...AND MUCH MORE...

Step by step **how-to videos**	Real world **faults**
Latest training **techniques**	**Interactive engine simulator** *– can you fix it?*
Real world **case studies**	Integrated **practical training**

»» as well as a **completion certificate** for each course

TO FIND OUT MORE! SCAN THE QR CODE

ANYWHERE.

TRAINING SOLUTIONS

Including assessments, 30 courses available.
Multiple face to face training options available

Candidates assessed for the following IMI accreditations:

- Fast Fit
- Service Technician
- Diagnostic Technician
- Master Technician

- Qualifications available for Level 1, 2, 3 and 4 on Hybrid/EV & ADAS
- Over 1250 TechSafe (EV/Hybrid competent) candidates trained

Our award winning Warwick training centre is home to our talented team of product engineers. This allows us to directly incorporate our wealth of technical expertise into our training material, ensuring you get the best quality technical training, every time.

Unit 10, Titan Business Centre, Spartan Close, Warwick, England, CV34 6RR

All across the UK

We also offer training from a number of satellite centres across the UK as well as the opportunity to bring the training to you! For more information, contact **training.uk@phinia.com**

Check out our new training prospectus!
scan the QR code

Fast Fit
Technician

BR1
Braking Fundamentals

EXH
Exhaust Systems

SAS
Steering & Suspension

WAT
Wheels & Tyres

VIO
Vehicle Inspection
Overview

CST
Customer Service

FRQ
F-Gas Refridgerant Qualification

FFT
IMI Fast Fit Technician
Assessment & Online exam

Service
Technician

BR1
Braking Fundamentals

EU1
Understanding Emissions

VE1
Vehicle Electrics 1

OS1
Oscillioscope Introduction

GE1
Ignition Systems

GE2
Petrol Engine
Management

CR1
CR Hydraulics Diagnosis

STT
IMI Service Technician
Assessment & Online exam

Diagnostic
Technician

VE2
Vehicle Electrics 2

TOD
Turbo Operation
and Diagnosis

EAT
Exhaust After Treatment
& Diagnosis

GD1
Gasoline Direct Injection

DTT
IMI Diagnostic Technician
Assessment & Online exam

Hydrogen

HY1
Hydrogen Awareness Level 1

HY2
Hydrogen I.C.E

Master
Technician

VE3
Advanced Electrics

CR3
CR Advanced Diagnostics

OS2
Oscilloscope Advanced

HV3
IMI EV & Hybrid Vehicles
Level 2/3 combined

ADS
IMI Advanced Driver
Assistance Systems

HV4
IMI Hybrid Vehicles
Advanced L4

MST
IMI Master Technician
Assessment & Online exam

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ACCESSORIES

SV11341
Trailer Cable Kit
£655*

6 Cables in a heavy duty carry case

SV10830
Truck & Trailer
Cable Kit
£1010*

11 Cables in a heavy duty carry case

SV10831
Truck, Van,
Trailer Cable Kit
£1395*

16 Cables in a heavy duty carry case

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Part Number	Price (£)	Description of cables included
SV10827	£82.67	4-pin Haldex Trailer
SV10828	£58.73	7-pin Knorr / Wabco Trailer
SV10829	£58.11	4-pin Haldex (ECU) Trailer
SV11049	£366.58	7-pin ISO 7638 Trailer Test Cable
SV11061	£55.47	7-pin Knorr-Bremse
SV11327	£106.17	4+4 pin Haldex Trailer Cable

Part Number	Price (£)	Description of cables included
SV10822	£69.29	8-pin Volvo
SV10823	£98.34	16-pin Scania / DAF
SV10824	£114.320	12-pin MAN
SV10825	£159.90	37-pin MAN
SV10826	£56.56	12-pin Renault Truck
SV10827	£82.67	4-pin Haldex Trailer
SV10828	£58.73	7-pin Knorr / Wabco Trailer
SV10829	£58.11	4-pin Haldex (ECU) Trailer
SV10203	£84.95	14-pin Mercedes
SV11049	£366.58	7-pin ISO 7638 Trailer Test Cable
SV10833	£62.59	30-pin Iveco

Part Number	Price (£)	Description of cables included
SV10202	£57.65	Audi / Volkswagen OBD Cable Power Supply
SV10203	£84.95	14-pin Mercedes
SV10209	£66.35	3-pin Fiat
SV10211	£87.02	38-pin Mercedes Light Commercial Only
SV10481	£87.02	First Generation FVV OBD Cable
SV10822	£69.29	8-pin Volvo
SV10823	£98.34	16-pin Scania / DAF
SV10824	£114.20	12-pin MAN
SV10825	£159.90	37-pin MAN
SV10826	£56.56	12-pin Renault Truck
SV10827	£82.67	4-pin Haldex Trailer
SV10828	£58.73	7-pin Knorr / Wabco Trailer
SV10829	£58.11	4-pin Haldex (ECU) Trailer
SV10833	£62.59	30-pin Iveco
SV11049	£366.58	7-pin ISO 7638 Trailer Test Cable
SV11050	£57.00	38-pin Iveco

Individual Cables

/ Cars and Light Commercial Vehicles

AUDI / VW
2+2 pin
(SV10202)

MERCEDES
14 pin
(SV10203)

OPEL
10 pin
(SV10204)

PSA
2 pin
(SV10205)

PSA*
30 pin
(SV10206)

SAAB
10 pin
(SV10208)

FIAT*
3 pin
(SV10209)

BMW
20 pin
(SV10210)

MERCEDES
38 pin
(SV10211)

POWER SUPPLY
12V
(SV10212)

FORD, VOLVO, VAG*
(SV10481)

IVECO
38 pin
(SV11050)

*OBD cables that require power supply cable SV10212 to work

/ Trucks, Bus and Trailers

VOLVO 8 pin (SV10822)	**SCANIA / DAF** 16 pin (SV10823)	**MAN** 12 pin (SV10824)	**MAN** 37 pin (SV10825)
RENAULT 12 pin (SV10826)	**HALDEX TRAILER** 4 pin (SV10827)	**KNORR TRAILER** 7 pin (SV10828)	**HALDEX (ECU) TRAILER** 4 pin (SV10829)
IVECO 30 pin (SV10833)	**TRAILER TEST ISO 7638** 7 pin (SV11049)	**KNORR/WABCO TRAILER** 7 pin (SV11061)	**DEUTSCH ALLISON** 9 pin (SV11174)
EOBD Extension 2m (SV11322)	**EOBD** Extension 6m (SV11323)	**ZF** 3+6+9 pin (SV11325)	**BUS** 9 pin (SV11326)
HALDEX (ABS) TRAILER 4+4 pin (SV11327)	**MITSUBISHI FUSO/CANTER** (SV11409)	**KNORR** 18 pin (SV11496)	**WABCO** 15 pin (SV11497)
WABCO 25 pin (SV11498)	**WABCO** 35 pin (SV11499)	**MINI USB** 5 pin (SV11500)	**HÜBNER** 9 pin (SV11501)

Individual Accessories

USB-C MAGNETIC HUB
SV60296 | **£88.43**

REPLACEMENT DONGLE
SV11486 | **£165.16**

DS480 PROTECTIVE COVER
(MICROSOFT SURFACE PRO 7+)
SV60299 | **£78.37**

DOIP ADAPTOR CABLE
SV60156 | **£188**

ACTIVE PEN
SV60300 | **£144.76**

CONTENT VIEWER CONGLE
SV11487 | **£61.56**

DS450E UPGRADE KIT
SV11422 | **£1,250**

DS480E UPGRADE KIT
SV60310 | **£1,880**

DS480 TABLET ONLY
(MICROSOFT SURFACE PRO 7+)
SV60298 | **£1403.63**

To see all accessories & for our latest pricing visit the **Delphi Online Configurator!**
Scan the QR

Prices of all diagnostic parts are subject to change without notice.

Notes:

Technical Support
020 3816 1400

Customer Service
01926 679646

Additional Information

If the customer is supplying their own Tablet, we recommend the following:		If the customer is supplying their own PC, we recommend the following:	
Minimal Tablet Specification:	**Optimal Tablet Specification:**	**Minimal PC Specification:**	**Optimal PC Specification:**
Windows® 10 or 11	Windows® 10 or 11	Windows® 10 or 11	Windows® 10 or 11
Intel® Atom x5 @ 1.4GHz Base frequency 4 Cores	Intel® Atom x7 @ 1.6GHz Base frequency 4 Cores (or Core i5/i7 if available)	Intel® Core i3 2GHz 3MB Cache or higher	Intel® Core i7 quadcore 6MB Cache or higher
32GB with 16 GB spare or more	128GB SSD with 32GB spare or more	64GB HDD with 16 GB spare or more	128GB SSD with 32GB spare or more
4GB RAM	8GB RAM	4GB RAM	8GB RAM
10" - 1440x900 or higher	12" - 1920x1080 or higher	1440x900 or higher	1920 x 1080 or higher
USB-A 2.0 ports x1	USB-A 3.0 Ports x3	USB-A 2.0 ports x2	USB-A 3.0 ports x3
Wifi 802.11n	Wifi 802.11n	Wifi 802.11n	Wifi 802.11n
Bluetooth connexion (SPP)	Bluetooth connexion (SPP)	Bluetooth connexion (SPP)	Bluetooth connexion (SPP)
Internet connection	Internet connection with 2Mb/s bandwidth or more	Internet connection	Internet connection with 2Mb/s bandwidth or more
Microsoft .NET Framework 4.8	Microsoft .NET Framework 4.8	Microsoft .NET Framework 4.8	Microsoft .NET Framework 4.8
Adobe Acrobat Reader 8.0 or later	Adobe Acrobat Reader 8.0 or later	Adobe Acrobat Reader 8.0 or later	Adobe Acrobat Reader 8.0 or later

*Own tablet info

MERLIN DIESEL SYSTEMS

Find out more at:
delphiaftermarket.com

Partner with Delphi

Delphi