

AUTOMOTIVE TECHNICIAN TRAINING

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In association with:

BOSCH



Snap-on®

Latest ATT Update Released

The main change you will notice with this update is the interface. It is now also possible to change this by clicking the 'skins' button. The 'minimum' option is really useful for presenting on screen.

The other big change is the ability to annotate any learning or database screen. This 'smartboard' type facility is ideal for use in the classroom. It is even possible to save the results of your work..

There are now options to run each CD at different levels and combinations of levels. For example, level 2 only or levels 1 and 2 together. It is also now possible to change levels without exiting the program.

Short answer assignments are

now included – just click the 'A' button to access these.

Also included is an engineering resources CD – no charge!

We have updated some screens with new or additional animations – and of course made the odd correction here and there. Please continue to let us know if you find any mistakes and of course if you have any suggestions. The changes made for this version are mostly based on your suggestions so thank you!

Work is progressing on updates to match the new Automotive Skills Standards— watch this space!

Special points of interest:

- **Key Skills**
- **Blaupunkt ICE system**
- **Delphi E-Steer system**



Tom Deaton

Key Skills

What everybody has been waiting for: Vocationally specific Key Skills! The areas covered are:

1. Automotive (of course)
2. Hairdressing
3. Beauty
4. Food Preparation
5. Travel and Tourism
6. Care

7. Business
8. Engineering
9. Construction
10. Generic

Please let your colleagues know and call John Oxlade on: 01277 219119, or email: info@digitalup.co.uk for more details...

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Blaupunkt ICE system



MP3 players (Source: Bosch Media)

“...new car radios in two newly designed lines in the entry-level class, featuring either CD or MP3 players...”

Blaupunkt now introduces eight new car radios in two newly designed lines in the entry-level class, featuring either CD or MP3 players, and they all promise great value for money. The series includes four receivers in a more classic design and four tuners with a younger, fresher face and removable operating panels.

The functional design of the two new series with clearly arranged groups of operating elements provides for good handling and easy operation. From a technical point of view, the Blaupunkt car radios sport all the most

important features that encourage customers to buy on the aftermarket. They are equipped with trusted RDS receivers with Codem III technology, which provide them with dynamic sound characteristics, ensure high reception quality and switch quickly and reliably to the best available frequency. The Kiel CD35 and the Essen MP35 car radios have FM tuners, the other six models include medium and long-wave stations as well. With 4 x 40 or 4 x 45 watts of output performance, they are all well able to satisfy even more sophisticated demands for sound quality with respect to

their power-handling capacity.

The car radios in this attractively priced series also offer a 4-channel preamp out as well as three sound presets that can be activated at the touch of a button to select the best settings for rock, pop or classical music. In addition, they are able to play rewritable CDs and also drive an additionally installed CD changer or an iPod MP3 music player.

Four of the car radios have also been equipped with an integrated MP3 decoder. As a result, the disk drives in the Essen MP35, the Brighton MP35, the Calgary MP35 and the San Diego MP35 play not only conventional CDs, they are also able to play CD-R/RW disks previously burned with inexpensive MP3 tracks. And that's good news for any budget.

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E-Steer™ Electric Power Steering System

What is it?

E-STEER is an all-electric, engine independent power steering system that eliminates the traditional power steering pump, hoses, hydraulic fluid, drive belt and pulley on the engine to significantly improve fuel economy. Fuel economy performance with E-STEER rivals that of a manual steering system providing an average 4 percent improvement compared with a hydraulic system.

How does it work?

The E-STEER system uses sensor input and software algorithms to determine the amount of steering assist required. Responding to inputs from the vehicle speed and hand wheel sensors, the controller sends torque-adjusting commands to the variable speed, electric motor, resulting in the optimum amount of steering assist based on vehicle conditions. A returnability algorithm guides the steering wheel back to centre following the steering manoeuvre. The algorithms are customized to preserve the distinctive characteristics of various vehicles. High output current capability enables high steering load capacity. Brushless motors provide optimum steering characteristics

with less wear on the motor and less packaging and mass (25 to 30 percent smaller than brush motors). Built-in diagnostics assess all critical signals and functions to contribute to improved safety.

Where is it positioned on a vehicle?

Mounted on the steering column or on the rack and pinion steering gear, E-STEER eliminates parasitic losses normally associated with hydraulic power steering systems.

Column Assist

The assist mechanism is mounted on the steering column to deliver efficient electric power steering to compact to mid-size vehicles. An integrated pivot mount and controller option increase mounting flexibility.

Rack Assist

The rack mount configuration expands packaging flexibility with

a parallel motor that can be positioned anywhere around the rack. Rack assist is scalable and suitable from applications ranging from mid-size cars to full-size trucks. The scalable feature allows vehicle manufacturers to leverage existing mechanical hardware developed for 12-volt systems and can be used for future 42-volt applications.

Consumer Benefits

On-demand steering assist that equates to one-half (.5) to one (1.0) mile per gallon fuel savings -- up to 4 percent improvement over hydraulic systems.

Continued over...

“...power steering system that eliminates the traditional power steering pump, hoses, hydraulic fluid, drive belt and pulley on the engine”



E-Steer system (Source: Delphi)

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As the leading provider of automotive training blended learning systems in the UK and USA, Digital University Press (DUP) specialise in the creation of electronic training materials for the automotive education sector and automotive industry.

Working with world class automotive companies DUP has a substantial training resource that comprises over 7000 screens of learning coupled with a 1500 page workbook, 10,000 image database, 300 worksheets, and 1,500 randomly generated multiple-choice questions. Having control over this intellectual property allows DUP to be bespoke and re-brand but, most importantly, respond to clients in a timely and cost effective way.

DUP is owned principally by Mark Pitman of Pitman Publishing, Pitman Training and Bath Press. Alan Church is the managing director of DUP with the team being led by Tom Denton the UK best selling automotive author.

E-Steer continued...

E-STEER is environmentally friendly, as it eliminates hydraulic fluid -- no fluid equates to no leaks, leading to possible warranty cost reductions. It also diminishes impact on the environment as there is no need to dispose of power steering fluid or rubber hoses at the end of the vehicle's life.

Customer Benefits

Flexible tuning parameters that can reduce ride and handling development time -- E-STEER can be tuned using extremely flexible software tuning programs. Most vehicles can be tuned within one week, while a hydraulic system typically takes several months to tune.

Modular packaging increases design flexibility and ease of integration in existing vehicle platforms.

Reduced assembly time -- E-STEER can save up to 3.5 minutes of assembly time.

Enabling technology for future products (i.e., steer-by-wire, QUADRASTEER™, etc.)

Engine independence, all that is required is the battery for E-STEER to function -- the system uses less than .5 amp at idle and 1 to 2 amps with average use, which is 97 percent less energy than a hydraulic steering system



E-STEER and QUADRASTEER are trademarks of Delphi Corporation.

Automotive Technician Training

A decorative graphic consisting of three horizontal lines on the left, a checkered flag in the center, and three curved lines on the right.