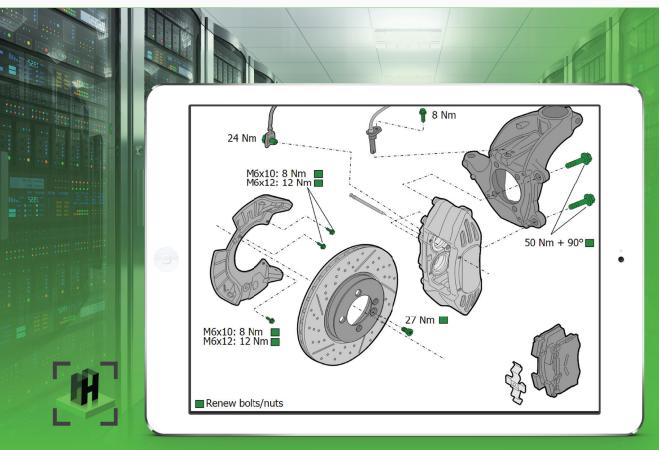
HaynesPro







HaynesPro®

A leading **supplier** of online technical information.

Established in 1995, fuelled by a passion for the generation and dissemination of high-value data, HaynesPro is, today, a leading supplier of online technical information to all areas of the automotive aftermarket.

It's a one-stop shop for the management, provision and integration of repair and maintenance data, with the sole aim of creating value through innovation, integration, partnership and increased efficiency. These four concepts underpin every area of HaynesPro's activities in a

> and which requires data that is robust, reliable and contemporaneous, delivered instantly and around the clock in a

> > form to suit the user.

WorkshopData™

It's the result of over 20 years' experience of data management.

Workshop Data is the name of our database; it's the result of over 20 years' experience of data management which has endowed us with unparalleled insights into bespoke data supply and manipulation for the benefit of our customers. Crucially, we're not only an automotive company that understands information technology, but it is also an IT company that understands the automotive sector.

In essence, Workshop Data enables the professional mechanic to diagnose, maintain and repair modern vehicles, be they cars, light commercial vehicles or trucks. It can be presented in many compelling ways. These variations on presentation include displaying the data in our own familiar and much respected form, or tailoring it to suit customers' requirements with their own branding, layout and colours through data exchange services.



As in everything that HaynesPro does, there's a logic even to the name of our trio of car maintenance tools. Considered singly, the three modules are called **Smart, Electronics** and **Tech**. Together they form the acronym, SET. Examining each in turn throws open the window on HaynesPro's world.



WorkshopData[™] Smart



Reduce time spend on known issues, sourced from manufacturers and industry specialists.

Read on page 4

WorkshopData[™] **Electronics**



A unique tool which guides mechanics to a rapid, precise identification of system and component errors.

Read on page 6

WorkshopData[™] **Tech**



Intuitive and essential technical information at your fingertips.

Read on page 8



WorkshopData[™]

Not only does our Smart module contain

OEM Technical Service Bulletins

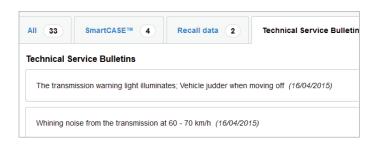
complete with symptoms, causes and
fixes, supported by fault codes and
their analysis and rectification, but it
also features an ingenious known
fixes and tips resource of
uncommon faults associated
with specific models, again
complete with symptoms,
causes and solutions.

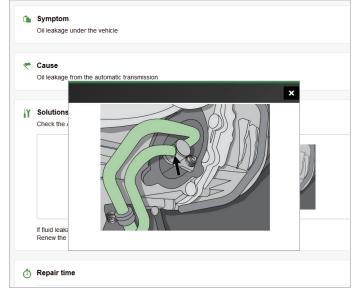
TECHNICAL SERVICE BULLETINS (SMARTFIX™)

Instantly check the availability of **Technical Service Bulletins.**

With a simple mouse click, the mechanic can instantly check the availability of Technical Service Bulletins for a given vehicle. All the data complies with the OEM documentation.

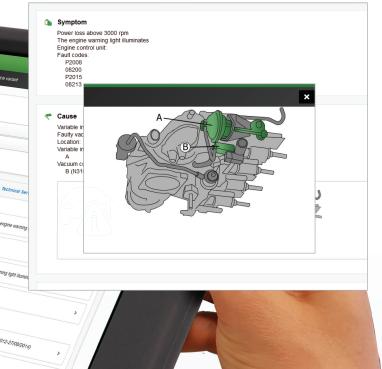












KNOWN FIXES AND TIPS (SMARTCASE™)

Sourced from **industry experts.**

This feature of Smart extends HaynesPro's coverage from OEM based technical data to information sourced from industry experts and renowned helpdesk organisations. It's a unique database module containing cases, with verified fixes and tips, for vehicles on the European market. It helps the independent workshop to check quickly for solutions to uncommon problems for a selected vehicle, so saving time and money. As with all HaynesPro products, it offers clearly formulated and appropriate solutions, enabling every mechanic to work with the data.



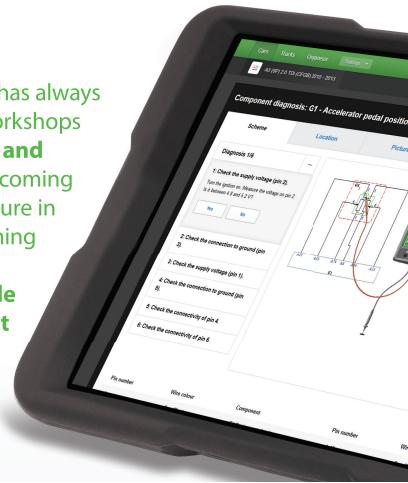






WorkshopData[™] **Electronics**

HaynesPro's electronic data has always been an important aid to workshops but with electrical systems and advanced technologies becoming an ever more significant feature in modern cars, it's now becoming essential. At its heart sits HaynesPro's exclusive Vehicle Electronics Smart Assistant (VESA).

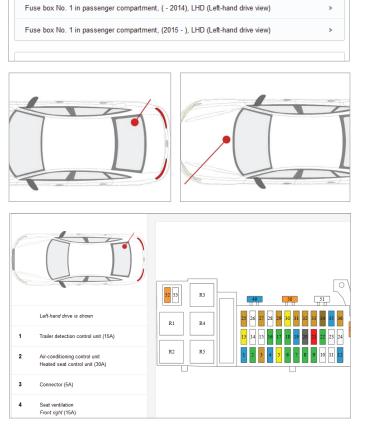


FUSES AND RELAYS

Clear **fuse location and identification** feature.

Ever helpful, HaynesPro has created an Electronics module packed with essential information, typified by this clear fuse location and identification feature.



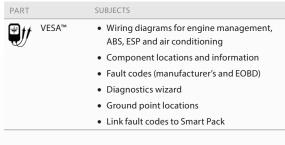




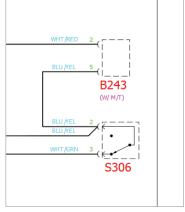
VESA GUIDED DIAGNOSTICS

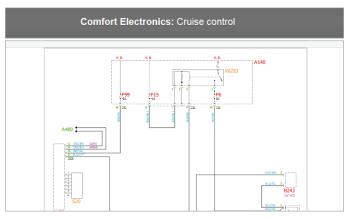
An innovative electronics diagnostics tool.

Probably unrivalled in the aftermarket arena, VESA is an innovative electronics diagnostics tool using data retrieved from the vehicle's CAN-Bus system to help mechanics diagnose fault codes and component errors. It takes an OEM's often bewildering and unfamiliar wiring schematic, translates it to a clearer, more readable format and then zooms in on the component and wiring under consideration. It features sub-menus (scheme, location, picture, component information and initialisation) that enable the user to 'drill down' to even more detail for even greater clarity and support. Includes fault codes and CAN-Bus overview.









COMFORT WIRING DIAGRAMS

Clear, 'localised' wiring schematics.

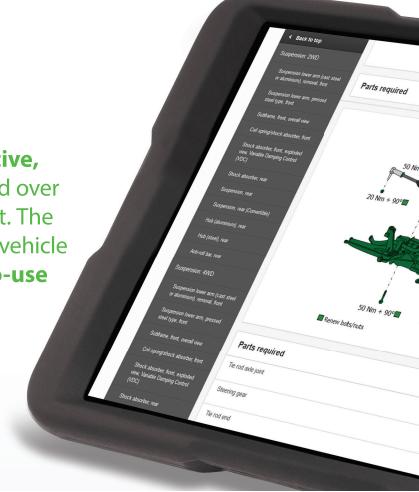
The Comfort Wiring Diagram module includes diagrams on a range of electronic systems, including climate control, radio, door locks, power windows, security, ABS and instrument cluster control, to name but a few. All diagrams use standard symbols, are available as fullcolour vector graphics, and are easily printable. We currently offer the most comprehensive set of wiring diagrams on the market.

PART		SUBJECTS
¥	Comfort Wiring Diagrams	 Full colour wiring diagrams covering e.g. climate control, radio, door locks, airbags, anti-theft, headlights
		 Pan and zoom functionality
		Highlight functionality to trace corresponding wires and components



WorkshopData[™] **Tech**

HaynesPro Tech is an **intuitive**, **easy-to-use system**, honed over many years of development. The module features extended vehicle search options and **easy-to-use navigation**.

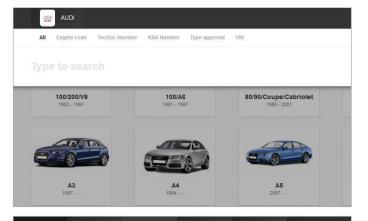


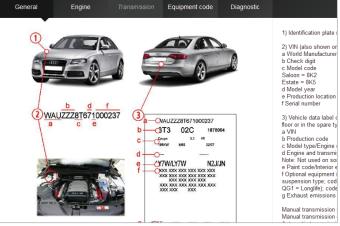
IDENTIFICATION DATA

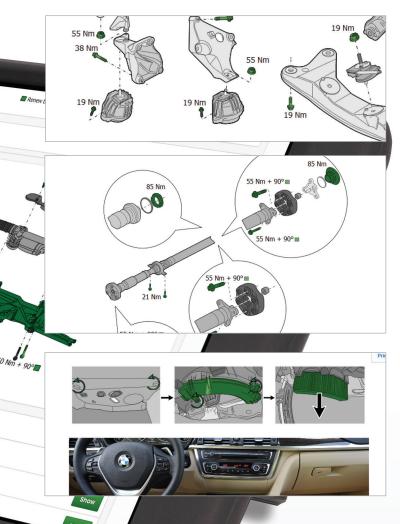
Tech features a VIN locator as standard.

A VIN (vehicle identification number) is a unique serial number used by the automotive industry to identify individual vehicles. It is also key to determining a vehicle's legality and status. Locating the VIN plate can be time-consuming so Tech features a VIN locator as standard. This shows the precise location of the VIN plate on the vehicle. In addition, when the VIN number is entered into the Tech search, the VIN decoder will identify the vehicle whenever possible. It will also present additional information, including the engine code, TecDoc and European Type Approval details.







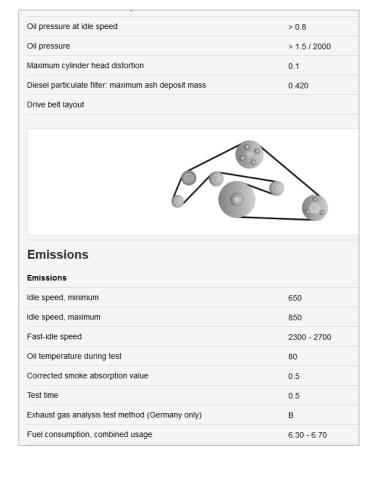


TECHNICAL DRAWINGS

Over **100,000 high-quality** technical drawings.

HaynesPro has over 100,000 high-quality technical drawings in its database. Far from being generic images, these are bespoke illustrations with feature parts highlighted for ease of identification.

PART		SUBJECTS
ď	Technical Drawings	 Links to generic parts Torque settings



ADJUSTMENT DATA

'Comprehensive' doesn't begin to describe the extent.

'Comprehensive' doesn't begin to describe the extent of the information contained in this section of Tech. The specifications provided range from torque settings to cylinder firing order, from idle speed to NOx emissions, and from cooling system cap pressure to rear brake disc thickness.

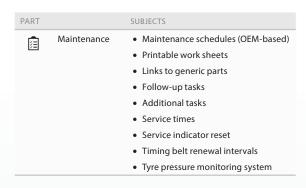
PART		SUBJECTS
7	Adjustment Data	Ancillary drive belt
		 European type approval data
		Emission data
		 Tyre sizes and pressures
		 Torque settings
		Air-conditioning service connectors

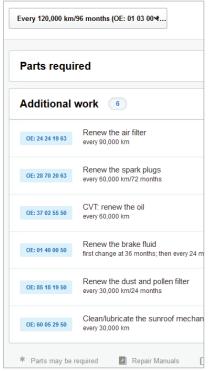


MAINTENANCE

Clear, comprehensive and, above all, helpful.

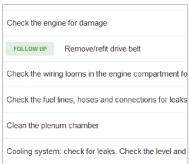
HaynesPro maintenance guides are clear, comprehensive and, above all, helpful. Full maintenance schedules, which are printable for convenience, are provided for make - model - derivative, presented by intervals and broken down by vehicle area (engine, steering, etc.). Where necessary, there are links to detailed and annotated technical drawings of components, showing their locations, and also to subsections relating to additional aspects of the job. There are instructions on how to disconnect and reconnect batteries, program ignition keys and reset service indicators and tyre pressure monitoring systems. Additional work is also displayed, for example relating to a car with a high total mileage at the time of routine service. Times are provided for all jobs and a total is displayed at the foot of the page.











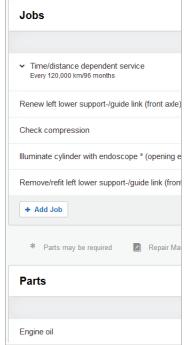
REPAIR TIMES

A more **realistic** timeframe.

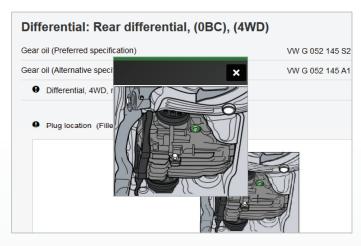
Not just the more commonly quoted single component repair time but one recalculated by HaynesPro to allow for multiple related tasks to give a more realistic timeframe.

The module specifies individual repair items and calculates their cost. As it takes account of follow-up as well as additional work, no labour items are overlooked - either in the cost specification or the invoice. This helps to maximise workshop revenue.







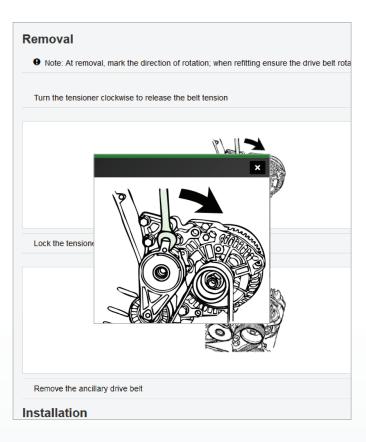


LUBRICANTS AND FLUIDS

Technical illustrations showing **the location**.

Again, all conceivable specifications are provided here, conveniently linked to related data for ease of use and featuring technical illustrations showing the location of filler and drain orifices.





REPAIR MANUALS

Detailed, step-by-step maintenance instructions.

Helpfully, Tech features detailed, step-by-step maintenance instructions for those jobs which, while being relatively routine, require specific procedures for the car in question. Again, technical illustrations are provided and, where necessary, reference numbers for identifying special tools. In this way, Tech helps boost productivity and improve workshop workflow.



Recall data Power loss (10/03/2014 23/03/2009-05/02/2014) Reduced braking efficiency (02/07/2013, JTDKN36U**1000010-JTDKN36U**1092028, 10/ Loss of power steering (03/12/2012, JTDKB20U**3000015-JTDKB20U**3546422) Loss of power steering (03/12/2012, JTDKB20U**7000003-JTDKB20U**7893861) Loss of power steering (03/12/2012, JTDKB22U**0002646-JTDKB22U**0002646)

RECALL DATA

Ensure that the vehicle conforms to safety standards.

Helping to ensure that the vehicle conforms to safety standards, HaynesPro Tech also features official OEM recall data.

PART		SUBJECTS
A	Recall Data	Recalls (OEM-based)

HaynesPro





WorkshopData

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IT SOLUTIONS

Limited only by **your imagination**.

Data itself is like a liquid. It can be 'frozen' into a fixed form, much like HaynesPro WorkshopData's CarSET and TruckSET. Capable of being continuously refreshed and updated, these off-the-shelf products present customers with a comprehensive, one-stop solution. Conveniently, they are in modular form, so customers can add to them as demand dictates.

HaynesPro data can be extracted to combine with other parts of a customer's products to help achieve their goals. We call this 'data integration' and for some customers it releases the full potential of HaynesPro data. More importantly, it enhances their business. In fact, the potential of HaynesPro data is limited only by imagination. As digital and automotive technologies develop and new opportunities reveal themselves, that potential is only just being realized.

Portal- to portal

In essence, WorkshopData enables the professional mechanic to diagnose, maintain and repair modern vehicles, be they cars, light commercial vehicles or trucks. It can be presented in many compelling ways. These variations on presentation include displaying the data in our own familiar and much respected form, or tailoring it to suit customers' requirements with their own branding, layout and colours through data exchange services.

Data exchange services

HaynesPro provides all of its data via data exchange services (also called web services or application programing interface – API). This infinitely versatile medium enables us to tailor the data we provide to the customer's precise needs.

Clearly better data.

HaynesPro B.V. Flankement 6 3831 SM Leusden The Netherlands

Tel: +31 (35) 603 6270 E-mail: sales@haynespro.com Website: www.haynespro.com

