









Electronics

A Smart

HaynesPro is part of the Haynes Publishing Group, world famous for their paperback workshop manuals. Since our launch in 1995, we have been serving the automotive market with the latest technical data for cars, trucks and light commercial vehicles.

HaynesPro is committed to providing independent workshops with products which enable them to work more efficiently and improve their profitability by saving time on finding essential technical data. Our ergonomically designed touch interface makes WorkshopData™ accessible on both mobile devices and desktops.

HaynesPro WorkshopData™ combines essential maintenance and repair data with detailed technical drawings, a unique electronics data module and intelligent diagnostics (VESA). It enables mechanics to diagnose, maintain and repair passenger cars, light commercial vehicles and trucks.

The information in HaynesPro WorkshopData™ is based on the manufacturer's original documenation.

For further information, please contact customer services at CS@haynepro.com or visit our website: haynepro.com.







Identification data

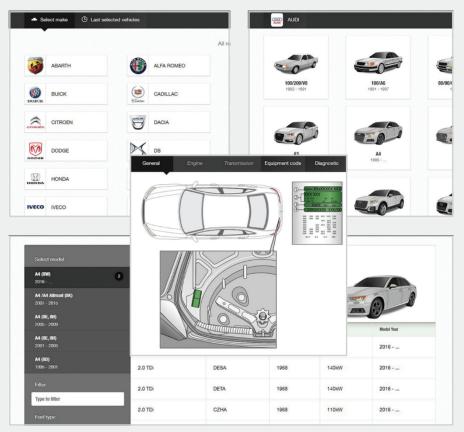


[Identification data

FINDING YOUR VEHICLE IS EASY.

Identification code locations provide you with the recommended method to define your vehicle. HaynesPro Tech features various search options such as engine code, European Type Approval and VIN. Depending on the country, a number plate search is also available.





Maintenance

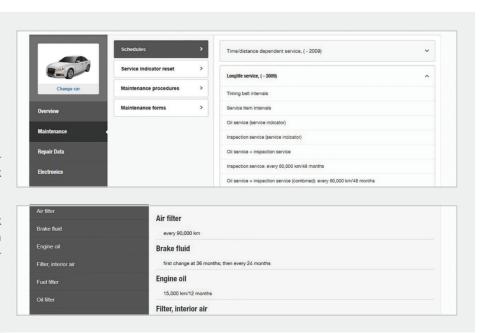


Maintenance

CLEAR, COMPREHENSIVE AND, ABOVE ALL, HELPFUL.

A single overview of the manufacturer's service intervals enables a quick selection of the required service.

Service item intervals allow quick access to maintenance information (time and distance) for specific components.



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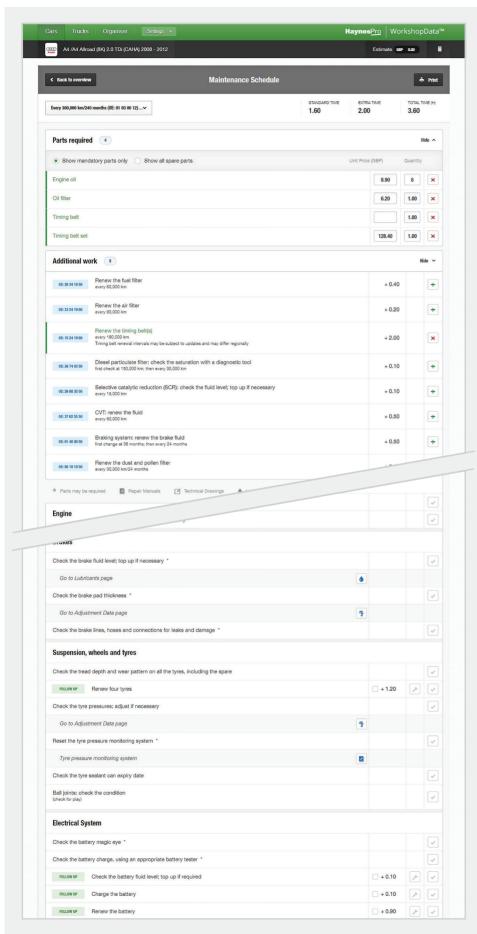




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Full maintenance schedules, which are printable for convenience, are provided for make – model – derivative, presented by intervals and broken down by subject (engine, brakes, etc.) or location (engine compartment, under the vehicle, etc.).

Additional work is also displayed, following the manufacturer's recommendations. All tasks have a corresponding OEM code and time. The total time is also displayed at the top and bottom of the page.

A unique feature is the availability of logical follow-up tasks which makes it easier to complete the work sheet.

Features		
Maintenance schedules (OEM-based)	\checkmark	✓
Printable work sheets	\checkmark	\checkmark
Smart links to adjustment data	✓	✓
Links to parts	\checkmark	\checkmark
Follow-up tasks	\checkmark	
Additional tasks	\checkmark	\checkmark
Service times	\checkmark	✓
Service indicator reset manuals	✓	✓
Timing belt renewal intervals	✓	
Tyre pressure monitoring system procedures	✓	✓

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'SMART' LINKS

Where necessary, there are links to detailed and annotated technical drawings of components or adjustment values, as well as to subsections relating to additional aspects of the task.

There are instructions on how to disconnect and reconnect batteries, and on resetting service indicators and tyre pressure monitoring systems.

Available 'smart' links to main subjects:

3 Adjustment data



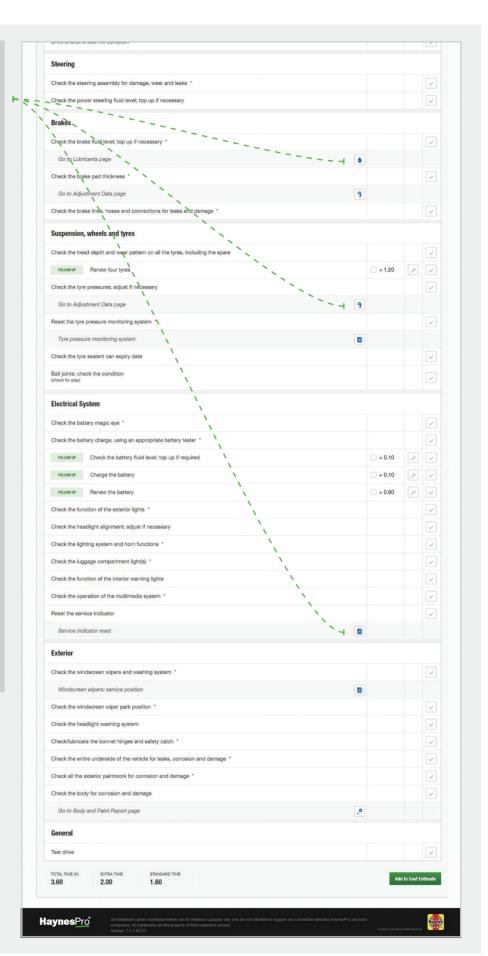
Repair manuals

Repair Times

Technical Drawings

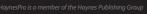
Available 'smart' links to other features and subjects:

- Body and paint report
- Vehicle inspection report
- Tyre inspection report





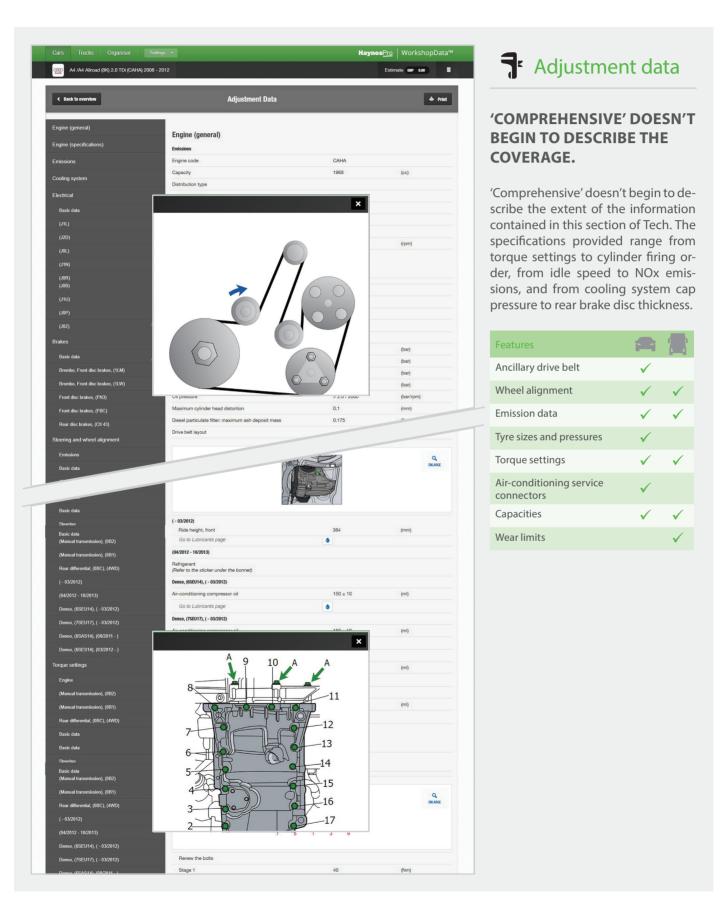








Repair data



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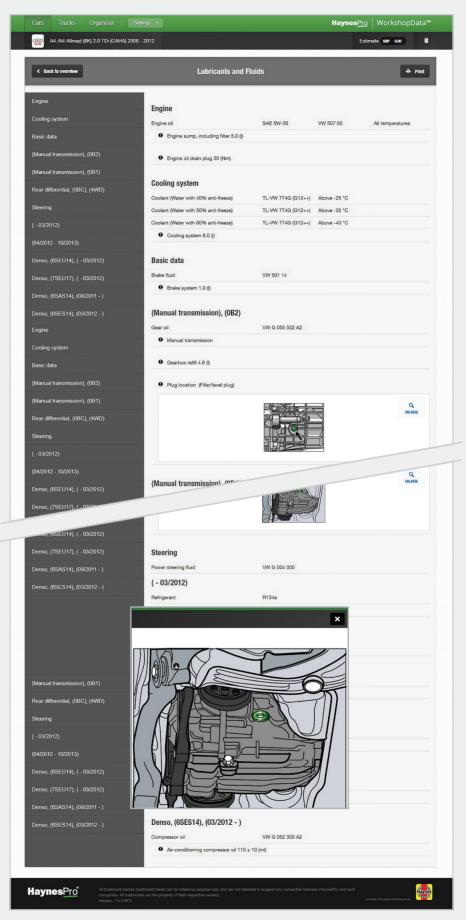




ALL OIL AND FLUID SPECIFICATIONS IN ONE VIEW.

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 plugs.





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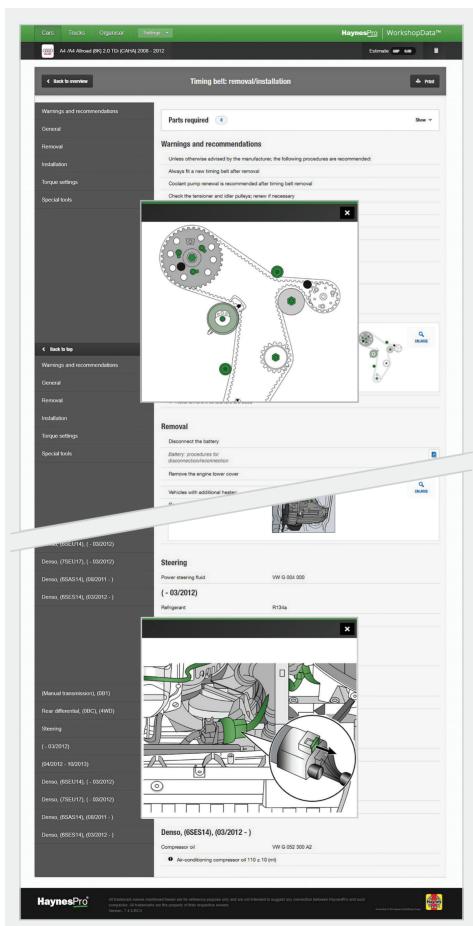














DETAILED, STEP-BY-STEP REPAIR AND SERVICE INSTRUCTIONS.

Tech features detailed, step-by-step repair and service instructions for those tasks which, while being relatively routine, require specific procedures for the car in question. Again, Tech provides technical illustrations and, where necessary, reference numbers identifying special tools. In this way, Tech helps boost productivity and improve workshop flow.

Features		
Timing belt; removal / installation	✓	
Timing chain; removal / installation	✓	
Ancillary drive belt; removal / installation	✓	
Clutch: removal / installation	\checkmark	\checkmark
Manual transmission; removal / installation	✓	
Cooling system; drain /refill	\checkmark	
Diesel particulate filter	✓	✓
Battery procedure	\checkmark	
(Semi-) automatic transmission fluid level check and drain / refill	✓	✓
Tyre pressure monitoring system (TPMS)		✓
Valve clearances		✓
Injector: removal / installation		✓

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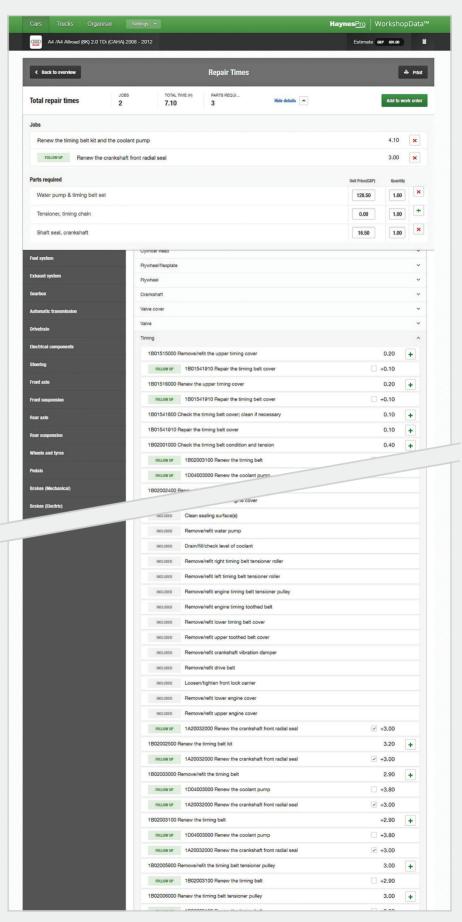




A MORE REALISTIC TIMEFRAME.

HaynesPro expands official (OEM) repair times to take account of associated tasks, making its data more helpful and relevant in the real world. The module contains numerous included tasks for overlap calculation. By listing follow-up tasks we ensure that no labour times are overlooked. This helps to maximise workshop revenue.





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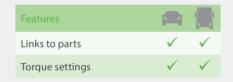


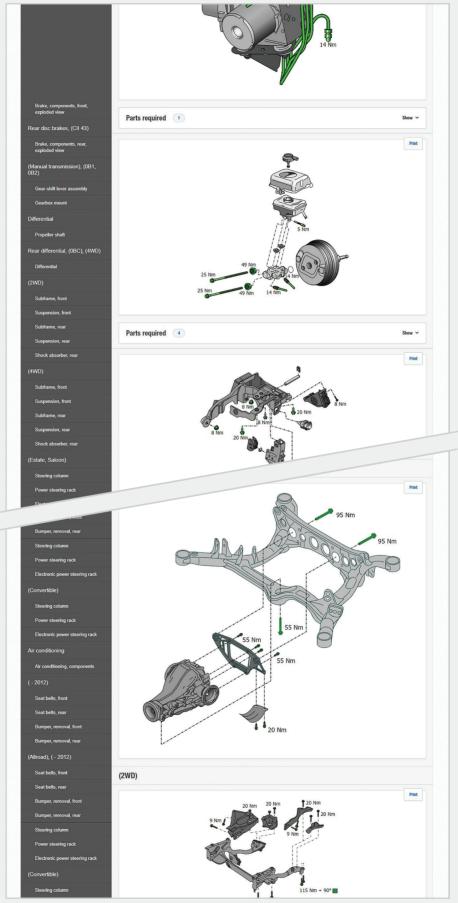




OVER 100,000 HIGH-QUALITY TECHNICAL DRAWINGS.

A picture is worth a thousand words. HaynesPro has over 100,000 high-quality technical drawings in its database. Far from being generic images, these are bespoke illustrations with featured parts highlighted for ease of identification and the option to link directly to a shopping cart in a parts catalogue. Torque settings are indicated in the drawing to ensure that the correct torque is used for the specified bolt/nut. There are also notifications for bolts/nuts which must be renewed and of any requirement for using locking compound.

















VESA MK II Guided Diagnostics



AN INNOVATIVE APPLICATION FOR ELECTRONICS DIAGNOSTICS.

Probably unrivalled in the aftermarket arena, VESA is an innovative electronics diagnostics application. It is based on vehicle CAN-Bus data and helps technicians diagnose faults and component errors. It takes an OEM's often bewildering and unfamiliar wiring schematic, converts it to a clearer, more readable format and then zooms in on the component and wiring under consideration.

Example A

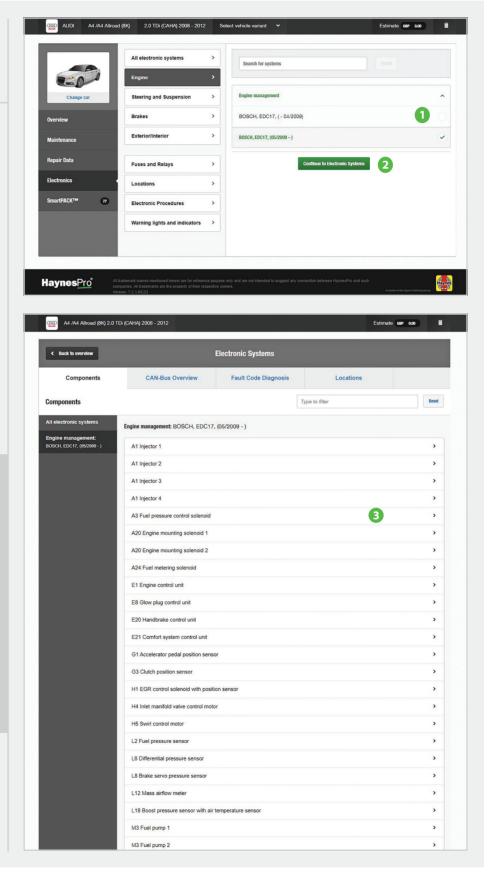
DIAGNOSTICS BY COMPONENT

[Engine tab]

- 1. Select systems
- 2. Confirm selected systems

[Electronic systems page]

3. Select component



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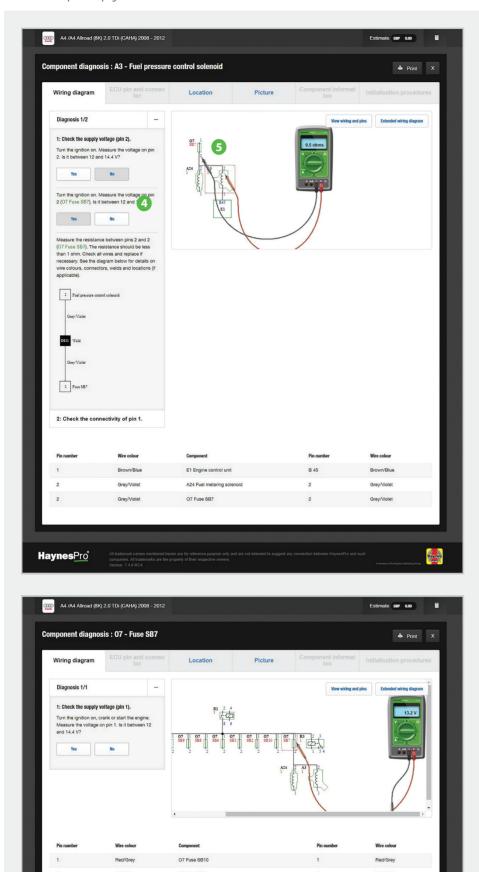




Electronics

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[Diagnosis page]

- 4. Answer the questions with yes or no until the component diagnosis is completed
- 5. or click in the wiring diagram to access the information for the selected component or fuse/ground point





O7 Fuse SB5





Example B

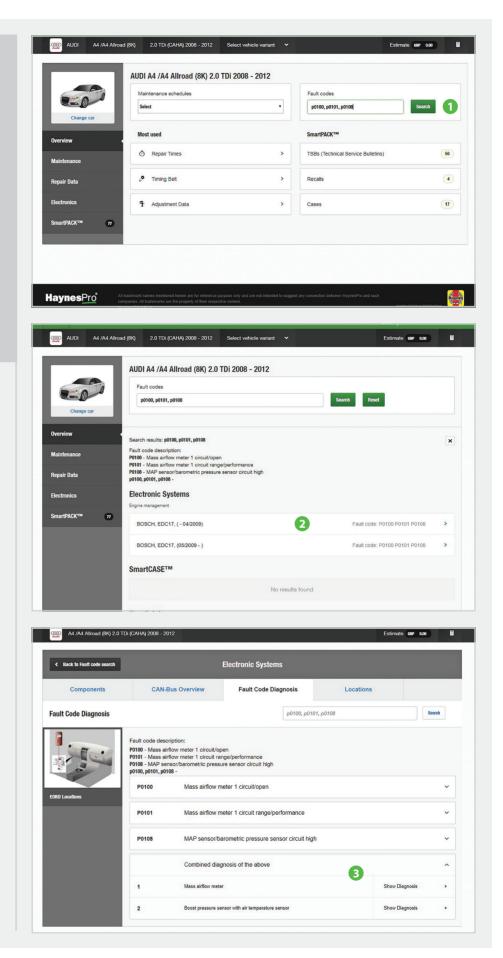
DIAGNOSTICS BY FAULT CODE

[Overview page]

- 1. Add a fault code or multiple fault codes, separated by commas
- 2. Select a system

[Electronic systems page]

3. Select a fault code description or select Combined diagnosis of the above



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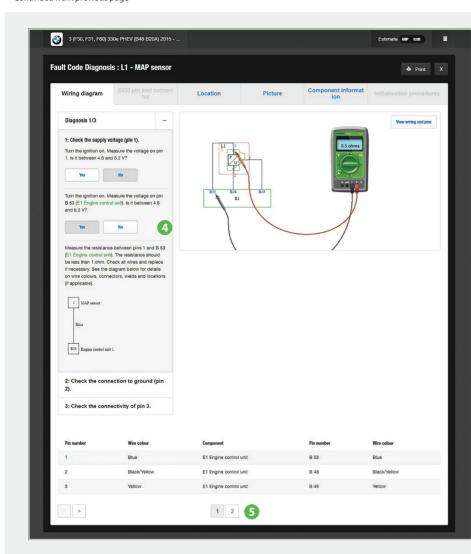


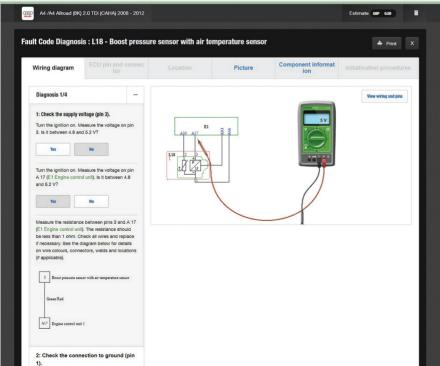






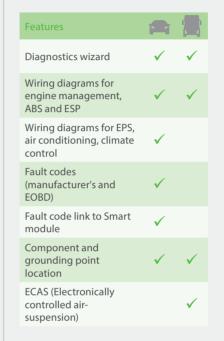






[Diagnosis page]

- 4. Answer the questions with yes or no until the component diagnosis is completed;
- 5. and / or click here to go to the next fault code diagnosis

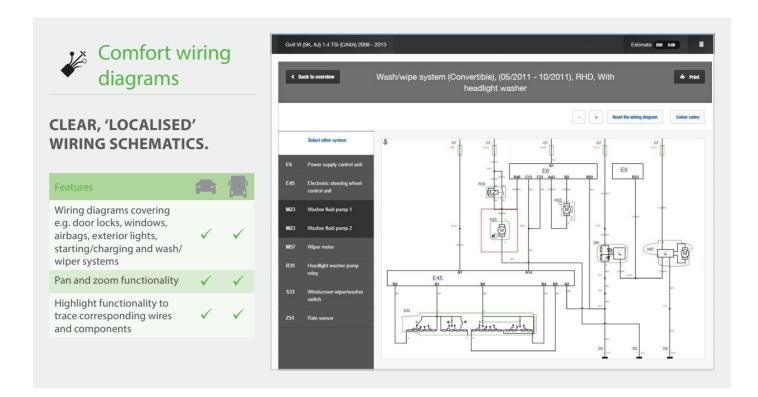




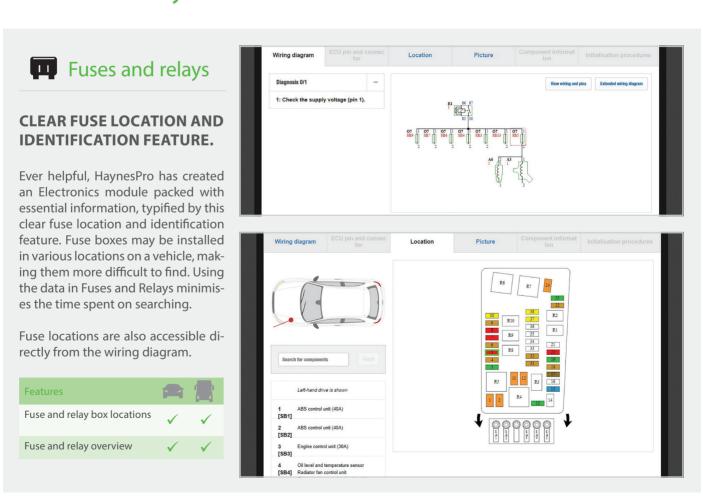
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Fuses and relays











Electronic Procedures





Battery: procedures for disconnection/ reconnection

DISCONNECTING/ **RECONNECTING A BATTERY USED TO BE A** STRAIGHTFORWARD TASK.

In modern vehicles, the procedure is more complicated. The technician needs to know what procedures to follow after reconnecting a battery. This will prevent the customer having to return the vehicle to the workshop due to errors in systems such as parking assistance or power windows. Due to the growing number of hybrid vehicles on the market, technicians also need specific instructions on how to work safely on these vehicles.

Other available procedures:

- High-voltage circuit: deactivation
 - Start/stop system: deactivation/ activation







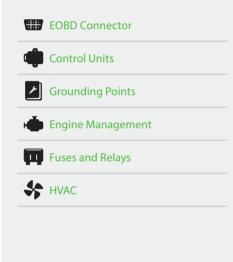


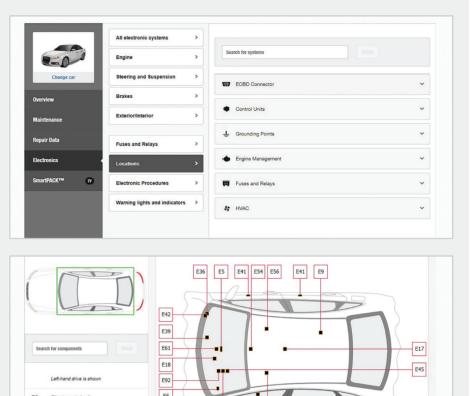
Locations

ONE OF THE CLEAR GOALS OF HAYNESPRO'S DATA IS TO REDUCE THE NUMBER OF **UNBILLABLE HOURS.**

With our Locations feature, we ensure that the required component, control unit or ground point can be found immediately. All locations are accessible from the local wiring diagrams.

Available locations:





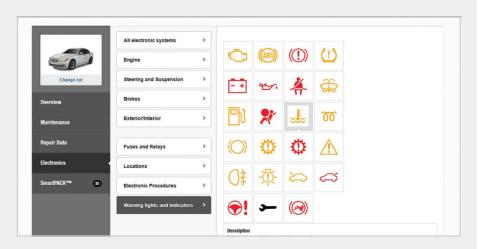
E77 E41 E13 E56

Warning lights and indicators

AN EXTENSIVE LIST OF POSSIBLE WARNING LIGHTS.

Specific to each manufacturer, with a short description and solution.

- Make-specific overview of available warning lights
- Covering both the European and the US car park











SmartFIX™

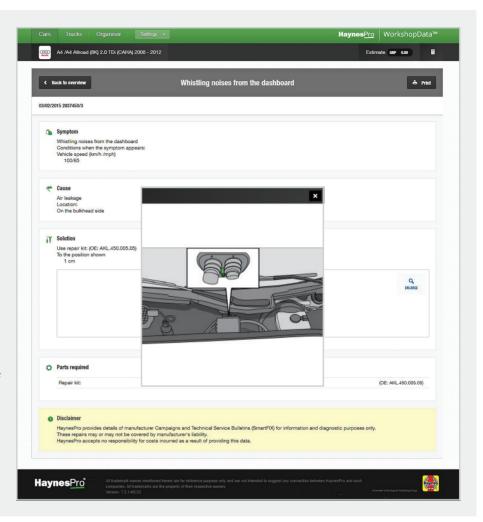


Technical Service Bulletins & Recalls (SmartFIX™)

INFORMATION THAT ADDS REAL VALUE FOR PROFESSIONAL TECHNICIANS.

Workshop Data offers instant access to a multitude of Technical Service Bulletins (TSBs) sourced from original equipment manufacturers (OEM).

Our team of technical authors carefully adapts the TSBs we receive to best suit the user's needs. With a simple mouse click, the technician can instantly check the availability of Technical Service Bulletins for a given vehicle.



WHAT MAKES HAYNESPRO SMARTFIX™ STAND OUT?



Data complies with the original OEM Single point of access to detailed in- Links to industry standard identification, documentation (covering TSBs from 2008 onwards).



Smart links to other data categories (specifications, procedures, references).



formation on faults, workarounds and providing an effective interface with defects usually only known to vehicle manufacturers.



The time spent on rectifying known issues is reduced. Based on the available information, the workshop can decide whether to rectify the issue in-house or to refer the work to an approved dealer.

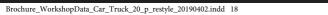


other databases.



Accessible via a fault code search.





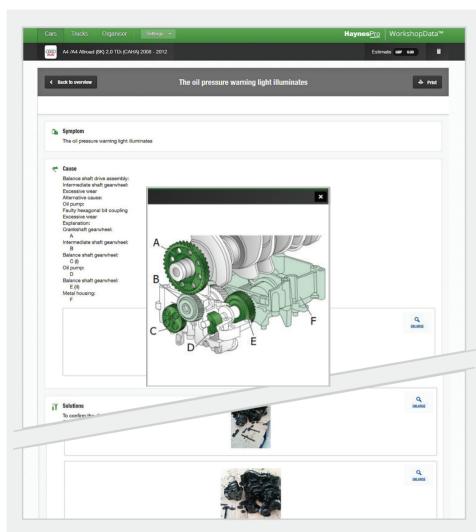


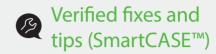






SmartCASE™





SAVING TIME AND MONEY.

extends This Smart feature HaynesPro's coverage from OEMbased technical data to information sourced from industry experts and renowned helpdesk organizations.

SmartCASE™ is 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 problems for a selected vehicle, so saving time and mon-

As with all HaynesPro products, it offers clearly formulated and appropriate solutions, enabling every technician to work with the data.



Related subjects

Every bulletin has suggestions for other solutions for similar problems.

WHAT MAKES HAYNESPRO SMARTCASE™ STAND OUT?



Extension of OEM coverage



Over 5100 unique bulletins covering 43 brands



Accessible via a fault code search











General features

