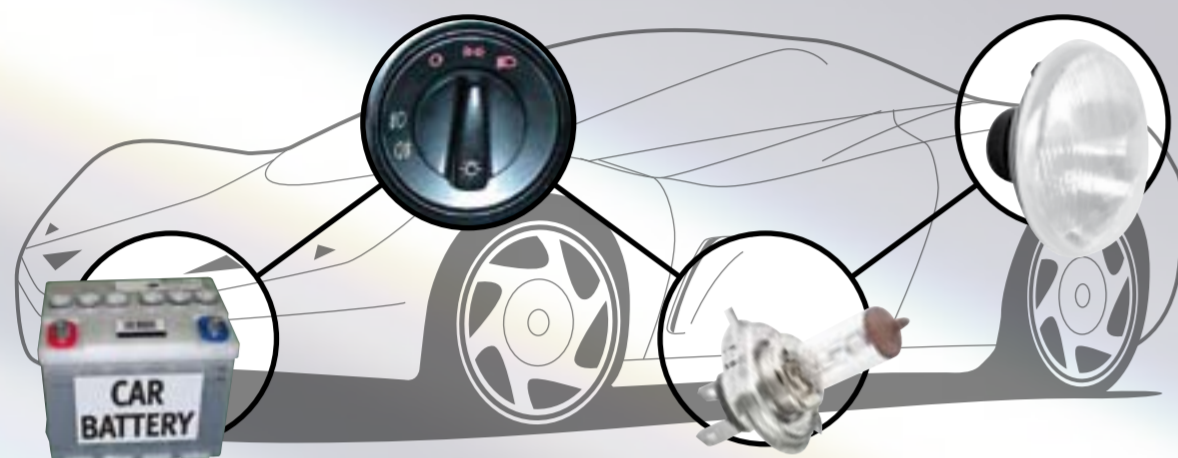


XENON HEADLAMPS

FIVE FAST FACTS

- Require around 50,000 volts to start.
- Also called HID – High Intensity Discharge.

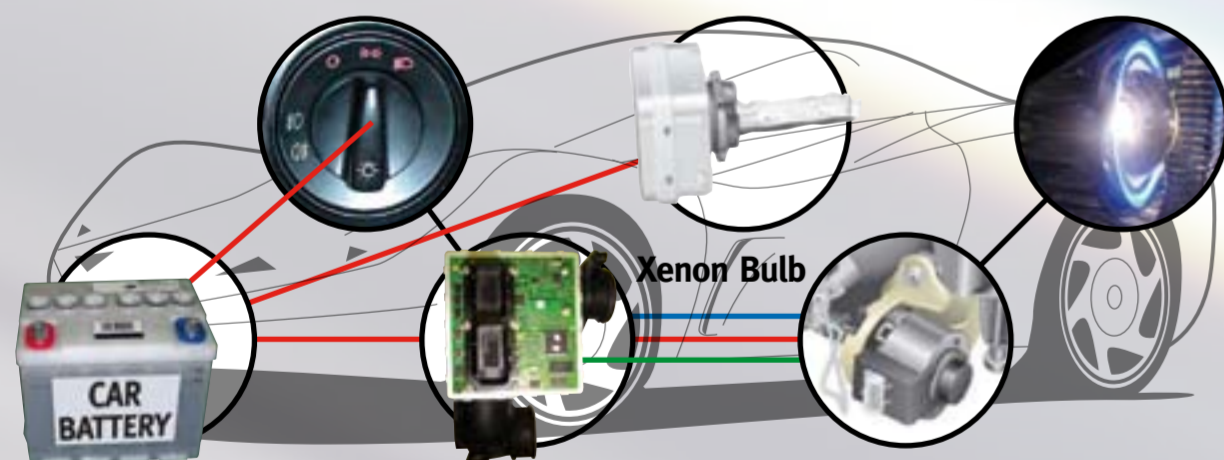
The Old Way of Lighting



- Xenon lamps typically have dynamic height adjustment built-in to compensate for the vehicle ride height so they do not dazzle other drivers.
- Xenon lamps produce around 3000 lumens whilst only consuming around 36 watts compared to a traditional headlight which produces around 1500 lumens and consumes around 55 watts.

The Xenon Way of Lighting

High Voltage Starter Unit Polyellipsoidal Lens



Light Control ECU Dynamic Height Adjuster Unit

- Xenon last three times as long as traditional bulb can cost six times more, and are far more complicated to diagnose in case of problems.

NEW FEATURES OF 9.2

New for 9.2 is the addition of Hyundai

This very popular Asian manufacturer has been making substantial in-roads into the European market, with a 127% growth in new car registrations from 2001 – 2005* In 9.2 we introduce this new manufacturer with the following coverage.

- 2002 – 2006 Model year coverage
- 10 Most popular models
- Petrol engines covered – Read and clear codes + live data
- ABS – Read and clear codes, live data and functional tests

*Figures sourced from SMMT reports.

Toyota

- Model year coverage extended to 2007
- Coverage 1999 – 2007
- 3 New Models added
- Petrol and Diesel Engines covered on new models
- NEW Injector programming for 2.0i Avensis 2003 – 2007
- Systems covered
- Engine – Read and clear codes + live data
- ABS – Read and clear codes + live data
- Airbag – Read and clear codes
- Transmission – Read and clear codes
- Functional Actuator Tests

Honda

- Model year coverage extended to 2006
- Coverage 1999 – 2006
- Diesel engine CRV and FRV Models
- 2.2 CTDi N22A1 Diesel CRV and FRV 2004 – 2006
- Systems covered on Diesel CRV and FRV models
- Engine – Read and clear codes + live data
- ABS – CRV only
- Airbags – CRV and FRV

Renault

- Coverage extended to include Logan
- Coverage 2005 – 2007
- Engines – Read, clear codes + live data
- Transmission – Read, clear codes + live data
- ABS – Read, clear codes + live data
- Airbag – Read, clear codes + live data
- New Actuator Tests for CAN and Non CAN Models
- 2000 Model year coverage onwards
- Fuel Pump Relay
- Idle air motor
- EGR
- Reset fuel trims

BMW

- Model year coverage extended to 2007
- Coverage 1992 – 2007
- Read and clear codes + live data on 2007 models
- New CAN system diagnostics for
- Engines – Read and clear codes + live data
- ABS – Read and clear codes + live data
- Airbags – Read and clear codes
- Transmissions – Read and clear codes + live data
- New Adaptations for Transmissions 1994 – 2007
- Re-set transmission adaptations after repair or replacement.
- Expanded DDE6 MAFF adaptation
- The BMW DDE6 engine management is a smart system which can adapt to cope with wear and tear on the engine and its sensors.
- The Mass Air Flow (MAF) sensor is a key component to smooth and economical engine running.
- MAF sensors can be considered as a consumable item, they wear out during normal operation.

- When the MAF is replaced with a new unit, the ECU must be informed that a new unit is being fitted.
- Failure to do this will lead to poor running and reduced economy.
- Additional Airbags on E60, E65 & E85
- Codes only
- New Models added

Land Rover

- Model year coverage extended to 2007
- Coverage 1991 – 2007
- 4 New Models added
- New Model Systems Coverage
- Engine – Read and clear codes + live data
- SRS – Read and clear codes + live data
- ABS – Read and clear codes + live data
- ATM – Read and clear codes + live data
- Expanded Systems Coverage
- Airbags – Range Rover 99-01
- Read, clear codes + live data
- ABS – Range Rover 95-98 – Read, clear codes + live data
- Airbags – Discovery II 00-05
- Read, clear codes + live data
- Airbags – Freelander 02-05 – Read, clear codes + live data

PSA Citroen – Peugeot

- Model year coverage extended to 2007
- Coverage 1995 – 2007
- 5 New Models – 14 Engine Combinations
- Systems Covered on New Models
- Engines – Read, clear codes + live data
- Airbags – Read, clear codes
- ABS – Read, clear codes and live data
- Functional tests
- ABS – Electro Valves and pump motor
- Engine – Injector, Fan Control, EGR, Check for spark
- SIR – where applicable
- BSI (Body Systems Interface) Expanded
- 407 Models covered 2004 – 2007
- CAN gateway to ancillary systems
- New ABS System added
- ABS Mk 60.0 added for 207, New Look C3 and 1007 Restyle models
- New TPMS (Tyre Pressure Monitoring System) added
- C6 Models – Read, clear codes + live data

Ford

- Model year coverage extended to 2007
- Coverage 1992 – 2007
- Codes, data and special functions on 2007 models as below
- New Model added
- New Xenon Light Module Programming
- Reprogram Xenon Light Modules and realign headlamps on some models
- Mondeo 2001 – 2007 Codes – Data and module reprogramming
- Focus 2005 – 2007 Codes – Data and module reprogramming
- Galaxy 2006 – 2007 Codes and data
- S-Max 2006 – 2007 Codes and data

VAG – VW – Audi – SEAT – Skoda

- Brake Bleed Procedure Added
- Mk5/J70, Mk5 ESP25
- This procedure is an essential service function, and is also required when replacing the ABS pump or changing brake fluid.
- Models covered 2005 – 2007
- Long Coding Comfort System
- This new and important feature enables the technician to modify the configuration of the convenience module on the Passat J3C chassis i.e. modify door locking configuration, selective door locking, Flashing indicators on locking/unlocking etc.
- Long Coding CAN Gateway

- Another new and important feature enables the technician to add or modify systems on the CAN Gateway, i.e. add a trailer module, Xenon lights etc.
- New Data Lists for 9.2
- Over 20 new Engine data lists added
- 2 New Airbag data lists added

Mercedes Benz

- Model year coverage extended to 2007
- 2 New Models
- Systems Coverage New Models
- Splitter
- Engines, ATM, ABS, SRS, Instruments – Read and clear codes + live data
- SIR – Diagnostics service reset
- SLR McLaren
- Engines, ATM, ABS, SRS, Steering column module, Passenger control module, Upper control module
- Read and clear codes + live data
- Control module rear, Power supply unit, TPM – Read and clear codes
- Expanded Systems Coverage
- S Class 221 body 2006 onwards
- New instrument panel – Read, clear codes + live data and actuator tests
- C Class 204 body 2007 onwards
- New instrument panel – Read, clear codes + live data
- E Class 210 body 2000 – 2003
- New instrument panel – Read, clear codes + live data and actuator tests
- ATM – Read and clear codes + live data
- Expanded Adaptation Capabilities
- Reset Crank Sensor
- Reset Mixture
- Reset Throttle Valve Actuator
- Reset Transmission Shift Valves
- EGS 52 ATM

Expanded Diagnostic SIR Capabilities

- S Class 206 221 body code
- Read service data and clear service indicator
- Program and configure service warning indicator
- Oil minimum warning
- National version factor
- C Class 204 body code 2007 model year
- Read service data and clear service indicator
- Reset mistaken service – If performed
- E Class 210 body code 2000 – 2003 model year
- Newer type Kombi Instruments
- Read service data and clear service indicator
- Xenon light – Bi-Xenon Light Diagnostics
- 2001 Model year onwards
- Read, clear codes + live data
- Perform special functions, like bulb removal procedure and curve illumination tests and tourist mode

Opel – Vauxhall

- Model year coverage extended to 2007
- Coverage 1992 – 2007
- New Antara Model Added
- Engines Z20DM, Z20DMH and Z24XE
- Systems Covered on Antara
- Engines – Read, clear codes + live data
- ATM – Read, clear codes + live data
- ABS – Read, clear codes + live data
- Airbags – Read and clear codes + live data
- Instruments – Read, clear codes + live data
- Expanded CIM Module Capabilities
- Vectra C - CIM (steering column module) unit reconfigure and replace including transponder and remote key programming.

- New ABS Pump and Solenoid Functional Tests for
- Corsa C, Astra G, Zafira B, Meriva and Tigra B models
- 9 New Engines Added for Corsa D, Astra H and Vectra C Models
- Z14XEL, Z16LET, Z16XE1, Z16XER, Z1DTR, Z16LER, Z28NEL, Z28NET and Z28HEH
- All new Engines – Read, clear codes + live data
- Actuator tests include
- Fuel pump relay
- Ignition coil
- EGR Solenoid
- EGR cooler bypass solenoid
- Fuel tank vent valve
- Cooling fan speed
- A/C relay test
- Port deactivation
- Intake manifold valve
- Malfunction Indicator Lamp (MIL)
- SVS lamp
- Injector shut off
- Boost pressure valve
- Glow time relay
- Throttle solenoid valve
- Fuel leakage
- Swirl level control solenoid
- Turbo bypass solenoid
- Loop status
- Secondary air pump relay

Special functions include

- Electronic throttle control
- Program idle speed
- Reset O2 block learn map
- Reset learned values
- Diesel Injector programming
- Replace Mass Air Flow Sensor
- Replace Rail Pressure Sensor
- Replace Pre-Catalyst
- Compression test

AFL – Alfa – Fiat – Lancia

- Model year coverage to 2007
- Coverage 1995 – 2007
- Read, clear codes and live data
- Functional tests
- SIR
- New Fiat 500 Model Added
- Engine – Read, clear codes + live data
- ABS – Read, clear codes + live data
- Airbag – Read, clear codes + live data
- Injector coding
- SIR
- New Engines
- 1.9 Diesel – EDC16CC39 – Alfa 147 – 2007
- 2.2 Petrol – MED 7.6.1 – Alfa 159
- Expanded Injector Coding Capabilities
- Injector coding added for 2.4 5 cylinder AFL engine – EDC16C39
- Alfa 159
- Cromar Restyle
- New and updated ABS systems for
- Alfa GT
- Bosch ABS 8 system
- Bosch 8 ASR ABS
- Bosch 8 VDC ABS up to 2007

Nissan

- Model year coverage to 2007
- New Engines and Airbag systems
- Kubistar – 1.5 Diesel
- Interstar – Airbags added
- Primastar – Airbags added and Injector coding on 2.0 MjR engine
- New Tiida Model added
- Petrol engine – Read, clear codes + live data
- ABS – Read and clear codes
- Airbags – Read and clear codes
- Actuator tests
- Disable injectors
- Vary ignition timing
- Cooling fan
- ABS motor
- ABS solenoid valves

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