MEEC TOOLS 019327 Fault Code Reader Instruction Manual

Contents

MEEC TOOLS 019327 Fault Code Reader

SAFETY INSTRUCTIONS

- Carry out testing and inspection of vehicles only in a safe working environment and in safe conditions.
- Never attempt to use or read the product while driving or manoeuvring the vehicle – risk of fatal or serious personal injury.

- Wear safety glasses that comply with the requirements of ANSI.
- Only work outdoors or in a well ventilated area – risk of personal injury or death from inhalation of exhaust fumes.
- Apply the parking brake. If the vehicle has an automatic gearbox put it in P (parking), if it has a manual gearbox put it in neutral.
- Only work outdoors or in a well ventilated area – risk of personal injury or death from inhalation of exhaust fumes.
- Pay attention to moving parts (fan, auxiliary drive etc.) when the engine is running – risk of serious personal injury.
- Internal combustion engines get very hot when they are running – risk of burn injury.
- The engine and ignition must be switched off when connecting or disconnecting the test equipment, otherwise the test equipment or electronics in the vehicle can be damaged. Switch off the ignition before connecting the fault code reader to, or disconnecting it from, the Data Link Connector (DLC).
- Fuel and battery fumes are highly flammable. Keep sparks, hot objects and naked flames away from the battery, fuel system and fuel fumes to minimise the risk of explosion. Do not smoke near the vehicle when testing is in progress.

SYMBOLS

	Read the instructions.
	Approved in accordance with the relevant directives.
	Recycle discarded product in accordance with local regulations.

TECHNICAL DATA

- Operating voltage 8 – 18 VDC
- Display, LCD colour (2.8″) 320 x 240 px
- Size 230 x 170 x 65 mm
- Ambient temperature* 0 to 60°C
- Ambient temperature** -20 to 70°C

DESCRIPTION

1. Display 320 x 240 pixels with a backlight to show test results.
2. Button ESC to cancel selection or steps in menus or return to the previous menu.
3. 16-pin diagnostics connector (OBD) for connection to the vehicle computer.
4. Button I/M Readiness quick check of emissions-related system and verification of drive cycle.
5. Quick select button for reading of fault codes.
6. USB connector.
7. Button OK to acknowledge selection or steps in menus.

8. Arrow buttons to navigate (browse to left/right/up/down) in menus and submenus and to go to the next display image or return to the previous display image.Explanation of symbols when using button 4, I/M Readiness:
    - Fault status light (MIL) yellow = fault status light on dashboard ON.
    - Fault status light (MIL) grey = fault status light on dashboard OFF.
    - Not supported
    - Completed
    - Not completed

SUPPORT AND FUNCTIONS

The product supports OBDII/EOBD (VPW, PWM, ISO, KWP2000 and CAN) and functions for all systems, including engine, transmission, ABS and airbags on the following car brands and models:

BMW 1-series
E81/E82/E87/E88 (2004 – 2013)
F20/F21 (2011 –)
F52 (2017 –)

BMW 2-series
F22/F23 (Coupé 2014 –)
F45/F46 (Tourer 2014 –)
F87 (2015 –)

BMW 3-series
E30 (1982-1994)
E36/E46 (1998-2006)
E90/E91 /E92/E93 (2004 – 2013)
F30/F31 /F34/F35 (2011 –)
M3/F80 (2012 –)
G20 (2018 –)

BMW 4-series
F32/F33 (2-door 2013 –)
F36 (Gran Coupé 5-door 2013 –)
M4 /F82/F83 (2013 –)

BMW 5-series
E28 (1981 – 1988)
E34 (1988 – 1996)
E39 (1998 – 2003)
E60/E61 (2003 – 2010)
F07 (2010 – 2016)
F10/F11 (2010 – 2016)
F18 (Long Wheel Base 2011 – 2017)
F90 (2017 –)
G30/G31/G38 (2017 –)

BMW 6-series
E24 (1976 – 1989)
E63/E64 (2003 – 2010)
F06 Gran Coupé 5-D (2011 –)
F12/F13 2-D (2011 –)

BMW 7-series
E23 (1977 – 1987)
E32 (1986 – 1994)
E38 (1998 – 2001)
E65/E66/E67/E68 (2002 – 2008)
F01/F02/F03/F04 (2008 – 2015)
G11/G12 (2015 –)

BMW 8-series
E31 (1990 – 1999)
G14/G15/G16 (2018 –)

BMW X-series	
X1	E84 (2009 – 2015), F48 (2016 –), F49 (2011 – 2017)
X2	F39 (2018 –)
X3	E83 (2003 – 2010), F25 (2011 – 2017), G01 (2018 –)
X4	F26 (2014 –), G02 (2018 –)

X5	E53 (2000 – 2006), E70 2007 – 2013), F15 (2014 –), F85 X5 M (2014 –), G05 (2018 –)
X6	E71 (2008 – 2014), E72 Active Hybrid (2009 – 2010), F16 (2014 –), F86 X6 M (2014 –)
X7	G07 (2018 –)

BMW Z-series	
21	E30 (1990 – 1999)
23	E36
24	E85/E86 (2003 – 2009), E89 (2009 – 2016)
28	E52 (1999 – 2003)

BMW I-series	
13	101 (2013 –)
18	112 (2014 –)

Mini
R50/R52/R53 (2000 – 2008)
R55/R56/R57 (2006 – 2015)
R58/R59 (2011 – 2015)
R60/R61 (2010 – 2016)
F54/F55/F56 (2014 –)
F60 (2017 –)

Rolls-Royce
RR1/RR2/RR3/RR4/RR5

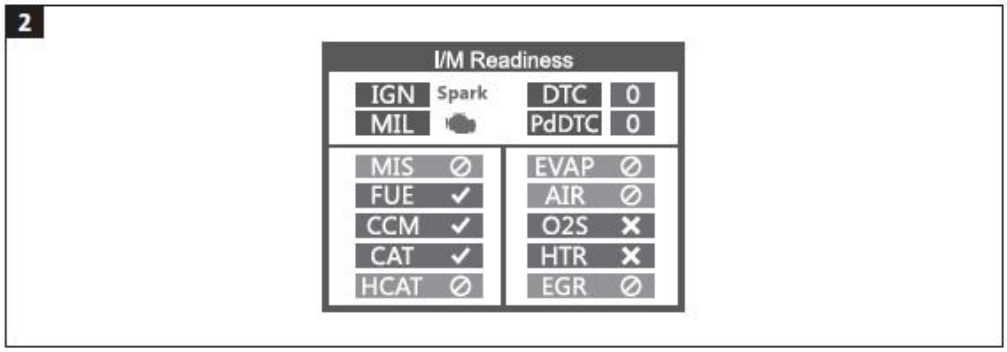
ABOUT FAULT CODES

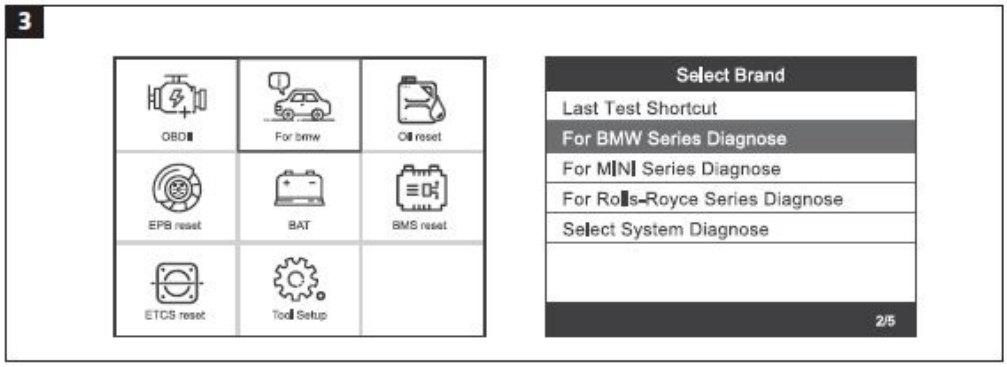
The OBD II system stores fault codes (Diagnostic Trouble Codes, DTC) in the vehicle’s computer system. The fault codes provide information on the type of fault and where and in which conditions the fault occurred, which simplifies fault tracingand correction. The OBD II codes consist of a 5 character alphanumeric string. The first character is a letter that indicates which control system has caused the fault code. The following four characters are digits that provide supplementary information on where and in which conditions the fault code was generated.

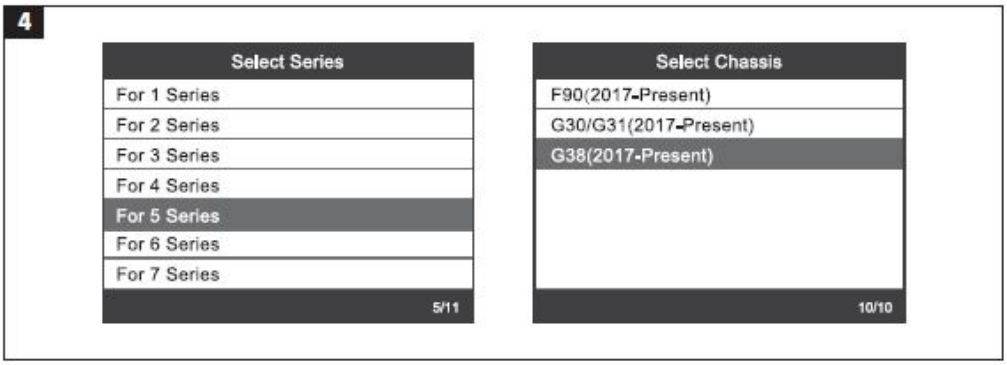
USE

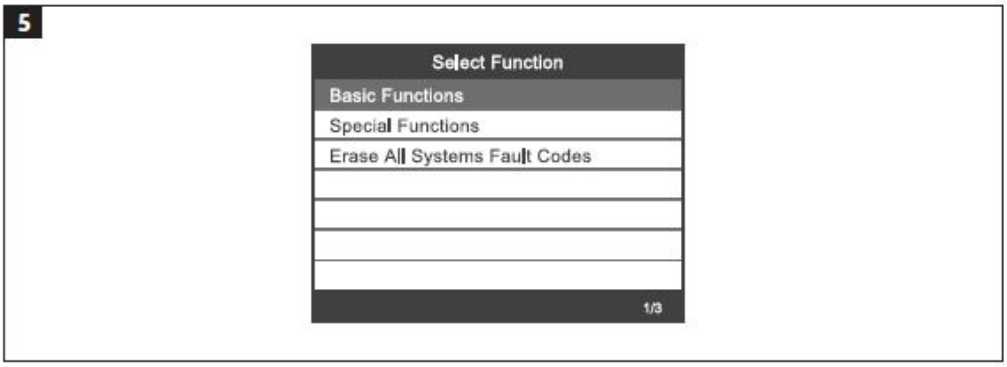
1. Switch on the ignition.
2. Localize the 16-pin diagnostics connector (DLC) and connect the fault code reader.
3. Select For BMW and then For BMW Series Diagnose. The display shows all the series as per the figure.
4. Oil Reset = Oil change reset
5. EPB Reset = Electronic Parking Brake Reset
6. BAT = Battery
7. BMS Reset = Battery Monitoring Sensor Reset
8. ETCS Reset = Electronic Throttle Control System Reset

Press For 5 Series and then press G38 2017–Present. The following is shown on the display:





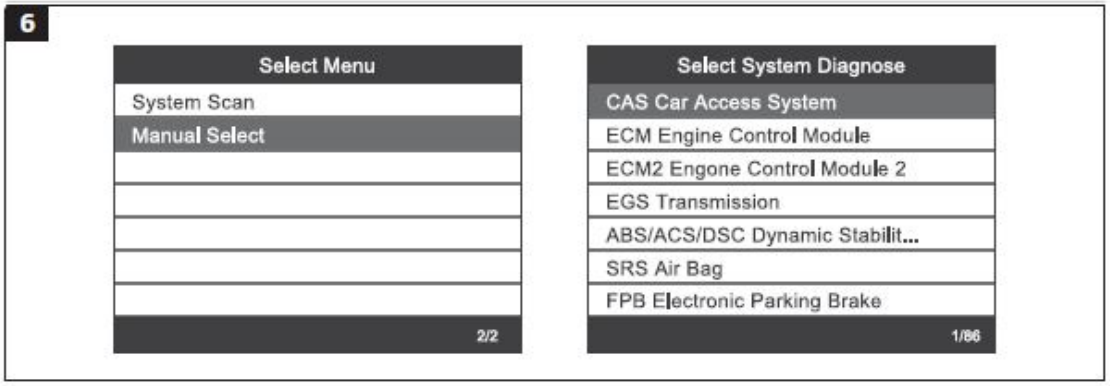


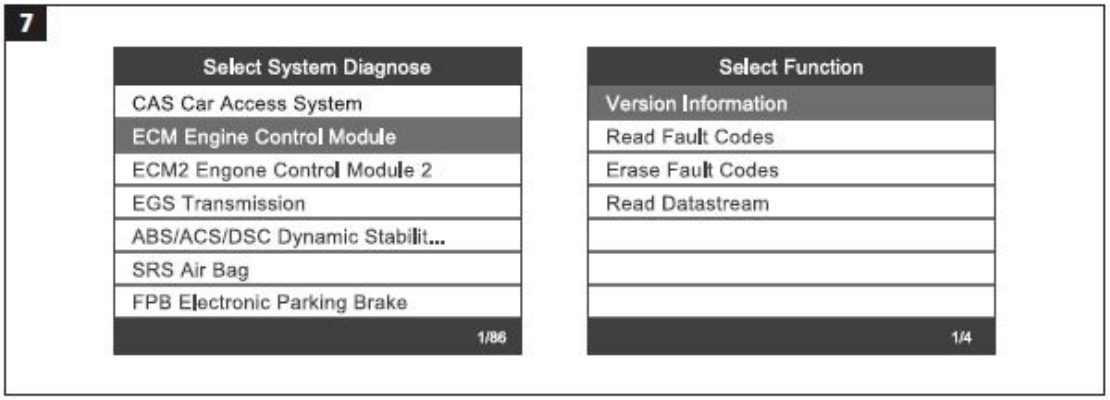


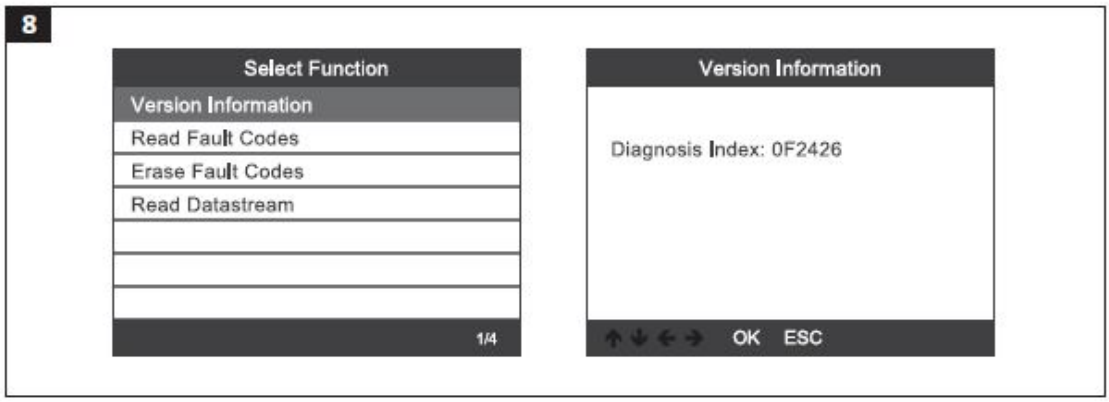
Basic functions

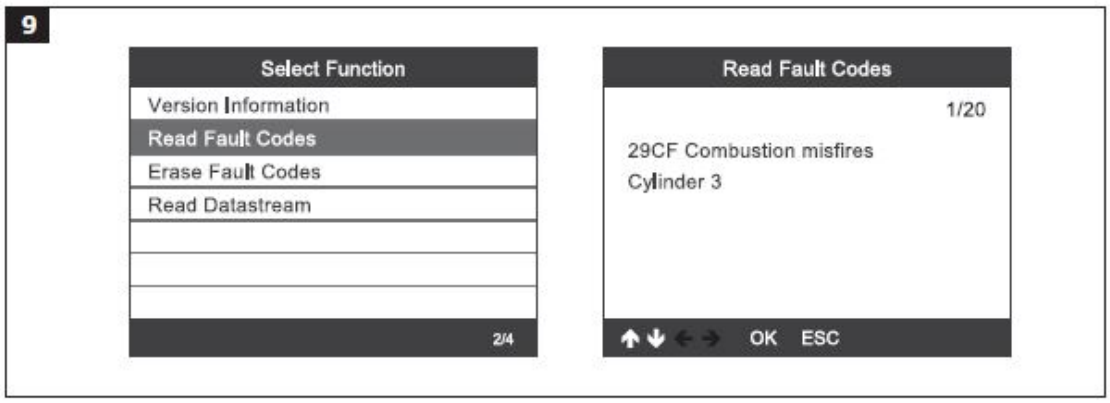
Press Basic Functions. The following display image is shown.

- Press System Scan to scan all vehicle systems.
- Press Manual Selection to show all supported systems and to select a system for diagnosis.
- Press Manual Select, the following is shown on the display:
- Select ECM Engine Control Module. The following is shown on the display:







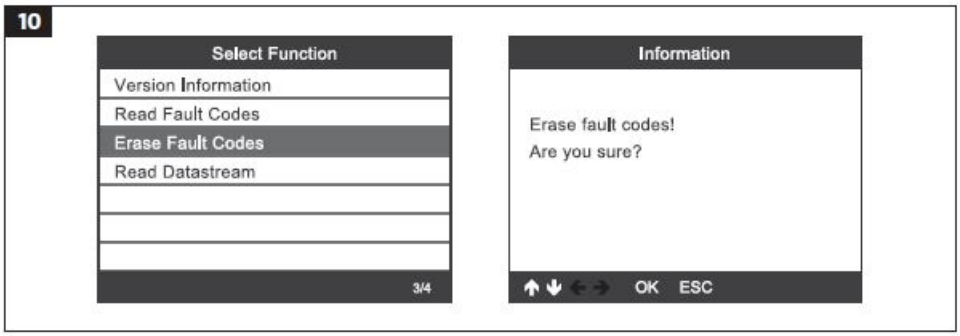


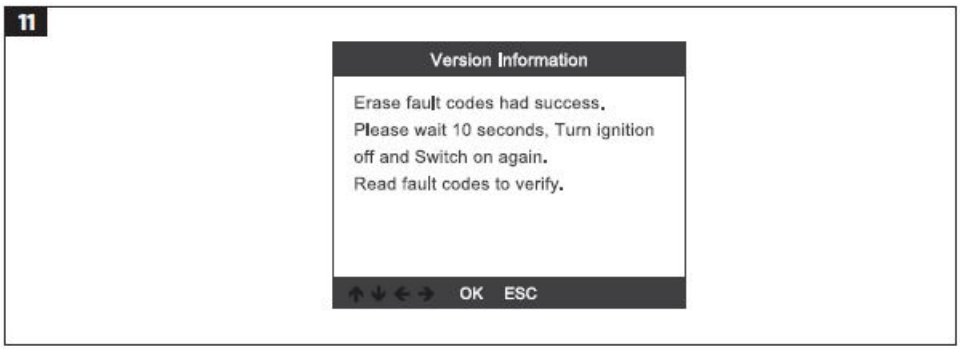
- Press Version Information. The following is shown on the display:
- Press Read Fault Codes. Use the up and down arrows to check the following fault codes:

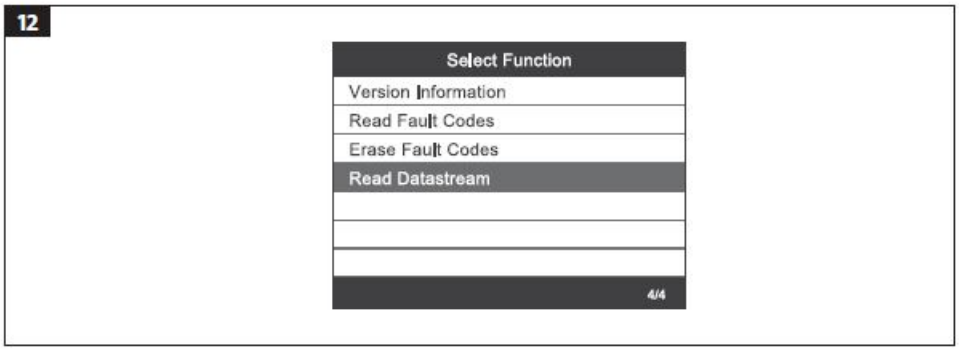
Erase fault codes

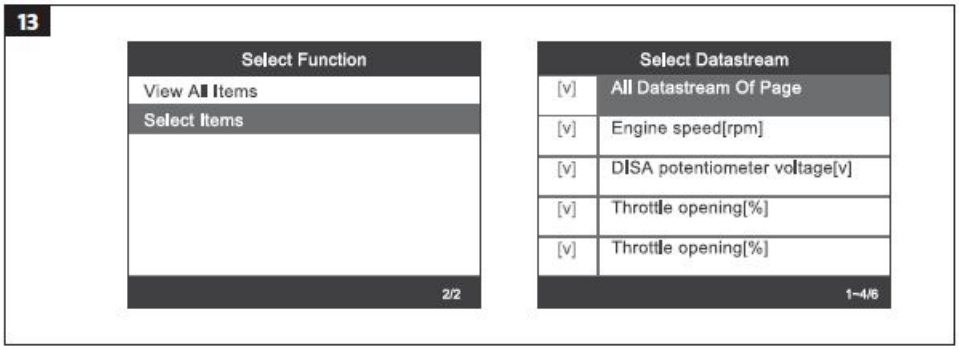
1. Select Erase Fault Codes and press the OK button:
   FIG. 10
2. Press OK again to erase fault codes or press ESC to cancel. FIG. 11
3. Select Read Datastream and press the OK button:

4. Select Use the left and right buttons to browse.
    - Use the up and down arrows to select the required item.
    - Press OK to confirm selection of data stream.
    - Press ESC to read date stream.Items and press the OK button.



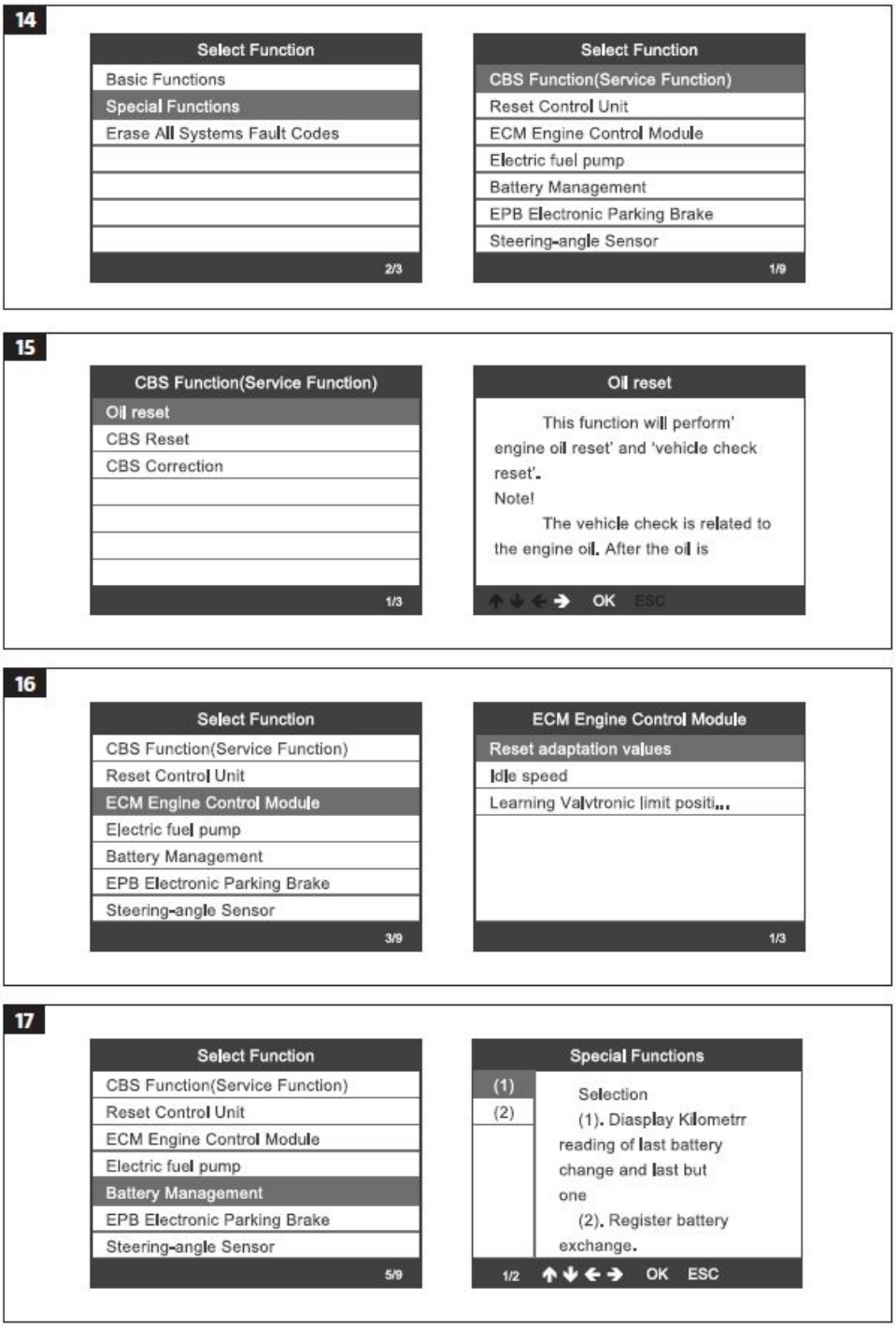






Special functions

- Special functions vary, depending on the model.
- Press Special Functions. The following display image is shown:
- Press CBS Function. The following display image is shown:



CBS reset 1
Engine oil, Spark plugs, Brakes front, Brakes back, Coolant, Diesel particle filter, Brake fluid, Microfilter, Vehicle check, Check exhaust emission.

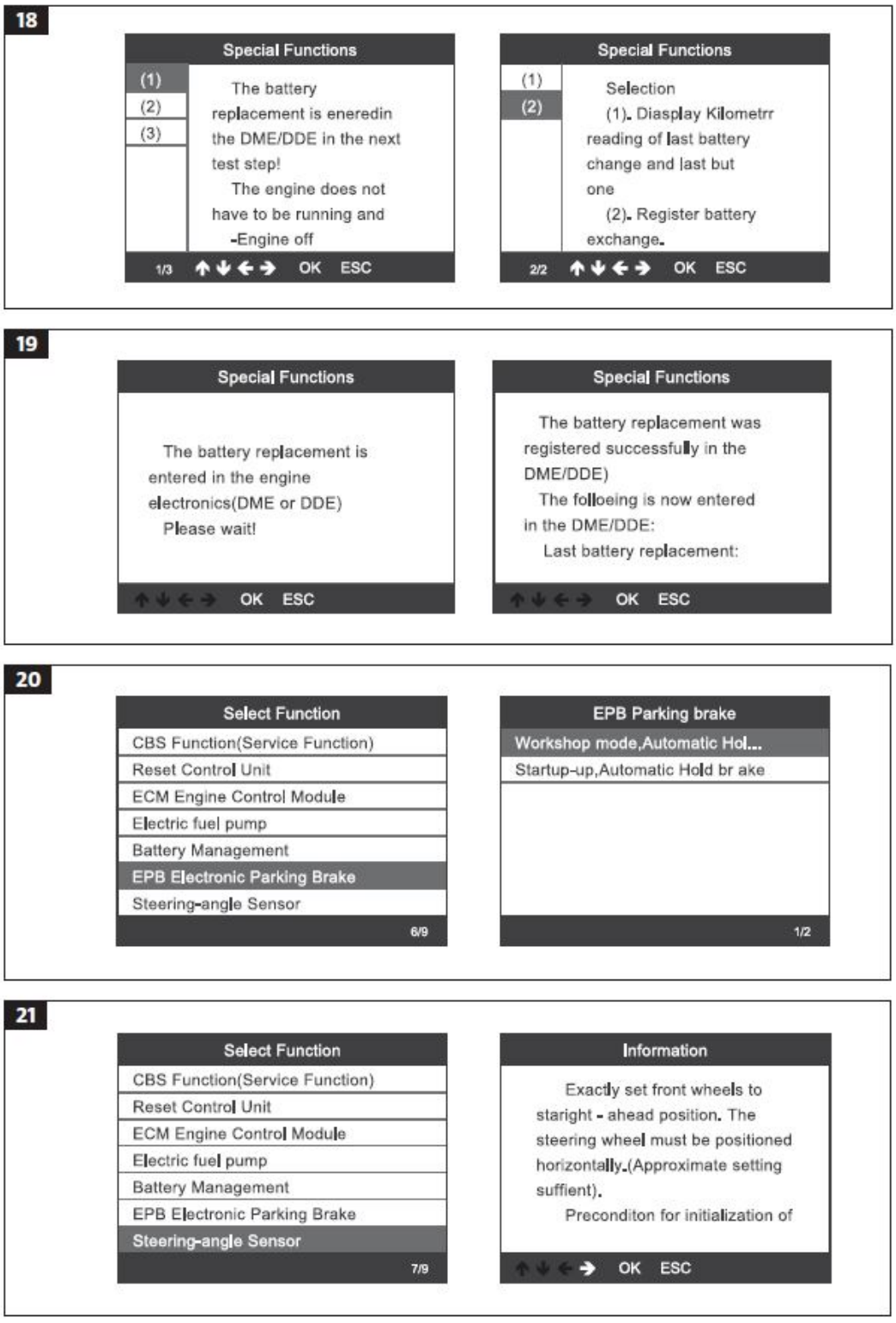
CBS reset 2
Oil check/oil change, Inspection, Interval, Correct follow-up service, Show status for service interval.

CBS correction
Engine oil, Spark plugs, Brakes front, Brakes back, Coolant, Diesel particle filter, Brake fluid, Microfilter, Vehicle check, Check exhaust emission.

Engine Control Module (ECM)

- Select ECM Engine Control Module. The following display image is shown:

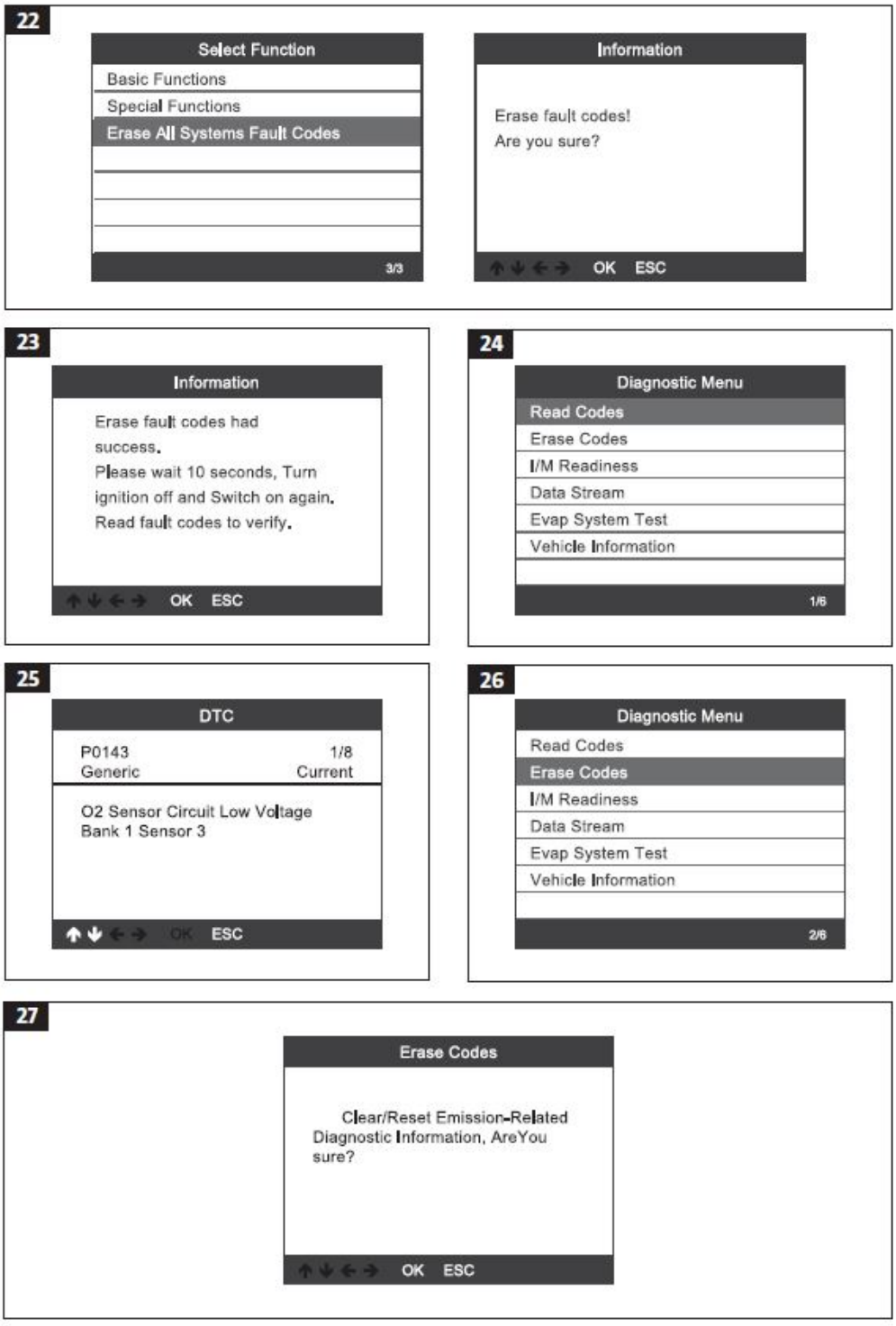
- Press Battery Management.. The following display image is shown:
- Use the up or down arrows to select alternative 2 and press OK to register battery change. The following display image is shown.
- Use the up or down arrows to select alternative 1 and press OK. The following display image is shown:



Electronic Parking Brake (EPB)

1. Press EPB Electronic Parking Brake The following display image is shown:
2. Select row 1 Workshop mode automatic hold brake or row 2 Start automatic hold brake.
3. Press the Steering-angle sensor. The following display image is shown:
4. Information: Point the front wheels forward. The steering wheel should be horizontal.

5. Press Erase All System Fault Codes.
6. The following display image is shown:
7. Press OK again to erase fault codes or press ESC to cancel. The following display image is shown when the fault codes are erased.



Read fault codes

- Stored fault codes are also called permanent fault codes. These fault codes switch on the fault status light (MIL) when a fault affects emissions.
- Inactive fault codes, also called mature fault codes or continuous fault codes, are generated by faults detected by the control unit during the present or previous cycle, but which are still not considered to be serious.
- Pending fault codes do not turn on the fault status light and are not stored in the memory if no fault occurs

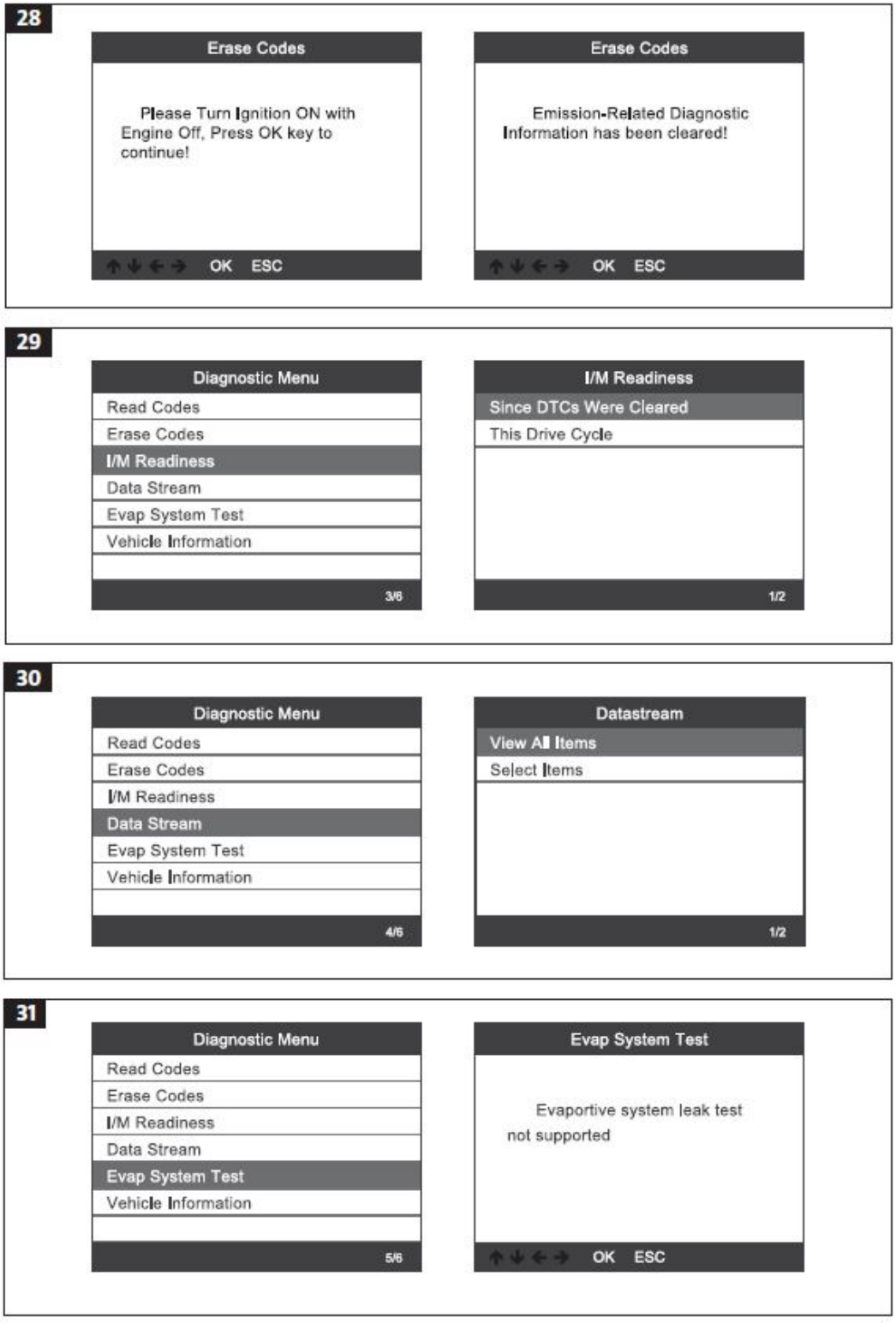
during the subsequent driving.

- Use the up and down buttons to select Read Codes in the diagnostic menu and press OK. The message No (pending) codes are stored in the module is shown if there are no fault codes! (No pending fault codes stored in the module!) Wait
- a few seconds and then press any button to go back to the diagnostic menu. The fault codes and their significance are shown in the display.
- Control unit number, fault code sequence, total number
- of detected fault codes and type of fault code, general of manufacturer specific, are shown in the top right corner of the display.

Erase fault codes

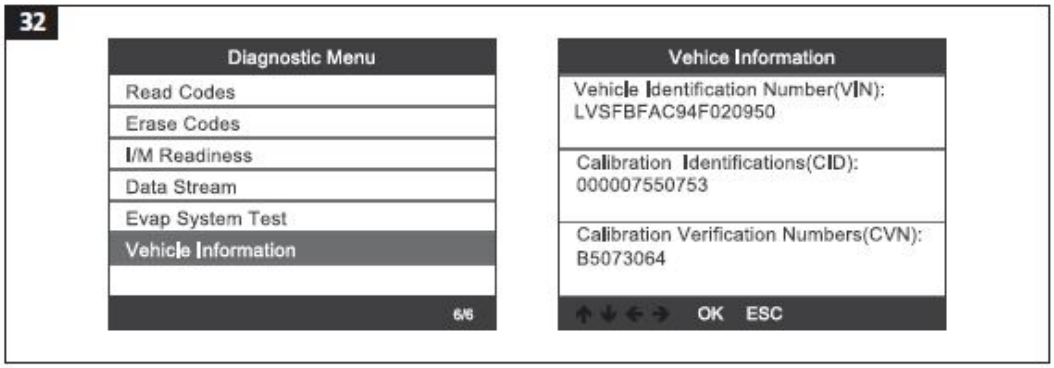
The engine and ignition must be switched off when doing this step. Do not start the engine. Read and note the fault codes before doing this step. Switch on the ignition again when the fault codes are erased and check if any fault code is generated again. If so, troubleshoot and correct. Erase the fault codes afterward.

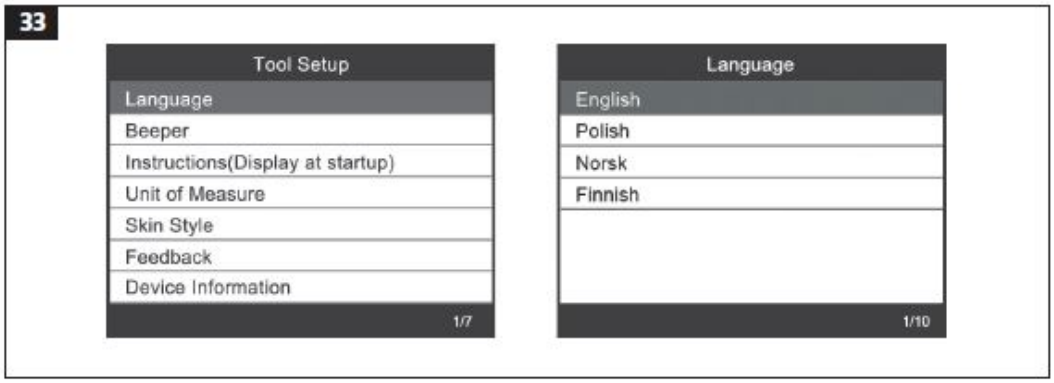
1. Use the up and down arrows to select Erase Codes in the diagnostic menu.
2. The following warning message with request for a confirmation is shown: “Emission-related diagnostic information will be erased/reset. Are you sure?” Press OK to confirm and continue.
3. Press OK to confirm. “Switch on the ignition, but do not start the engine. Press the OK button to continue.” The following is shown on the display: Emission-related fault codes have been erased
4. The menu I/M Readiness indicates whether different emissions related systems in the vehicle are working correctly, so that the vehicle is ready to be inspected. The function I/M Readiness can also be used to check that corrective maintenance and repairs have been carried out correctly, and/or to check monitoring status.

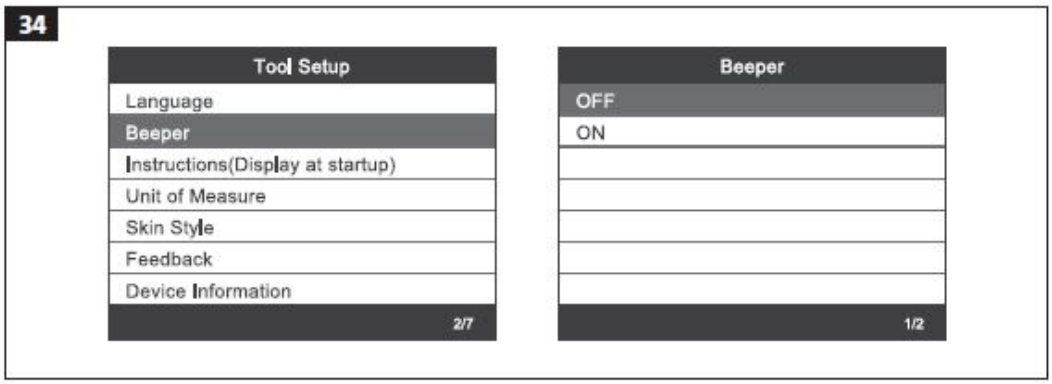


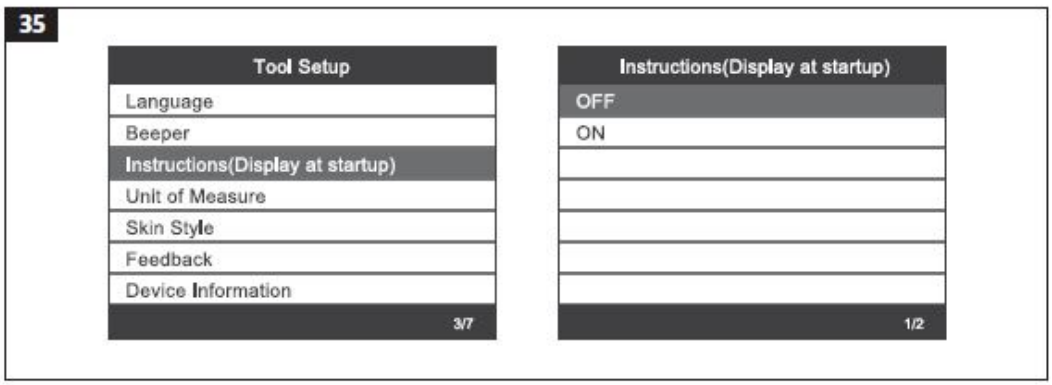
Data stream

The product is an OBD II diagnostic instrument that communicates with the vehicle computer. Data received can be shown in real time with the function Live Data. Both variable values (voltage, revs, temperature, speed etc.) and system status (open/closed circuits, fuel system status etc.) from different sensors, connectors and actuators in the vehicle can be shown. Press ENTER.This function activates the necessary conditions for a leakage test of the evaporator system, but does not carry out the actual test. The vehicle manufacturer is responsible to determine criteria for when the test should be stopped automatically. Read the repair manual to see which steps are necessary before this function is used.Select the item Vehicle Information and press the ENTER button to show vehicle information, for example the chassis number (VIN), calibration ID (CID), and calibration verification number (CVN).Press Language and select required languagePress Instructions, Display at Startup and select Off or On.



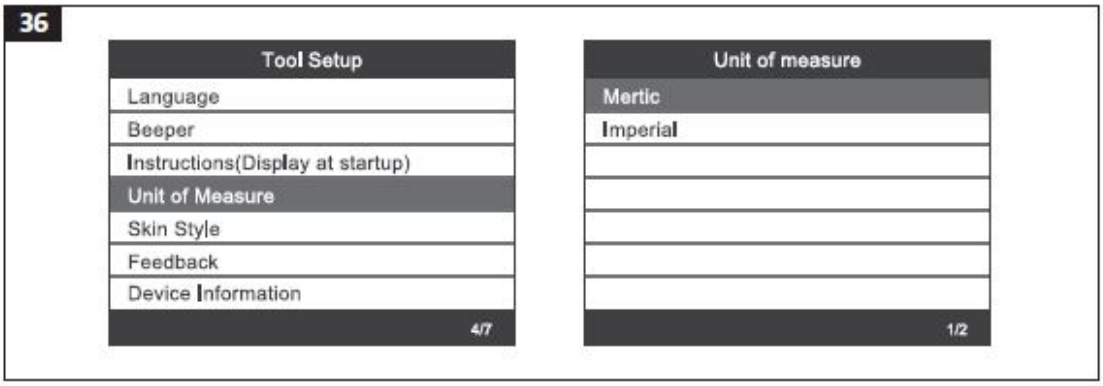


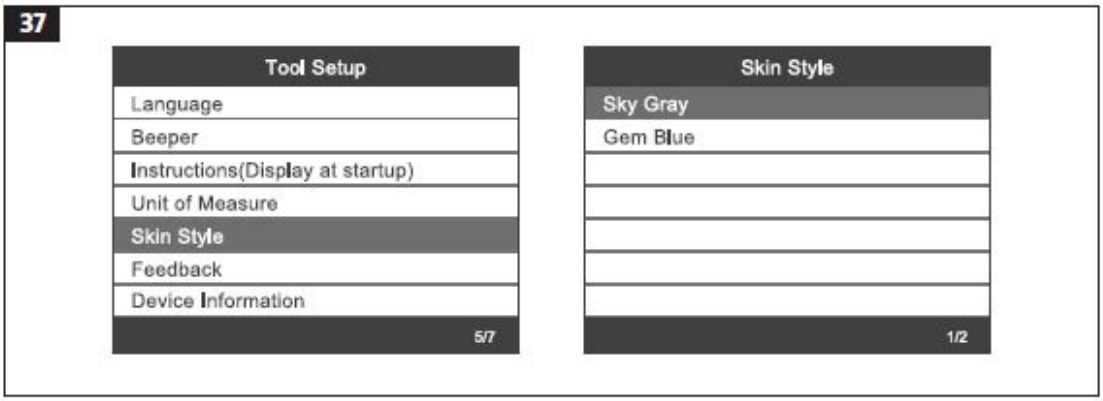


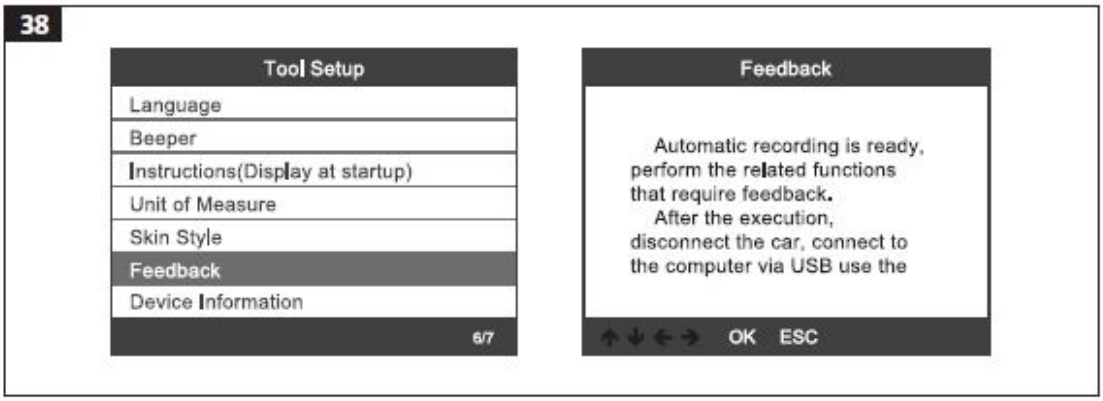


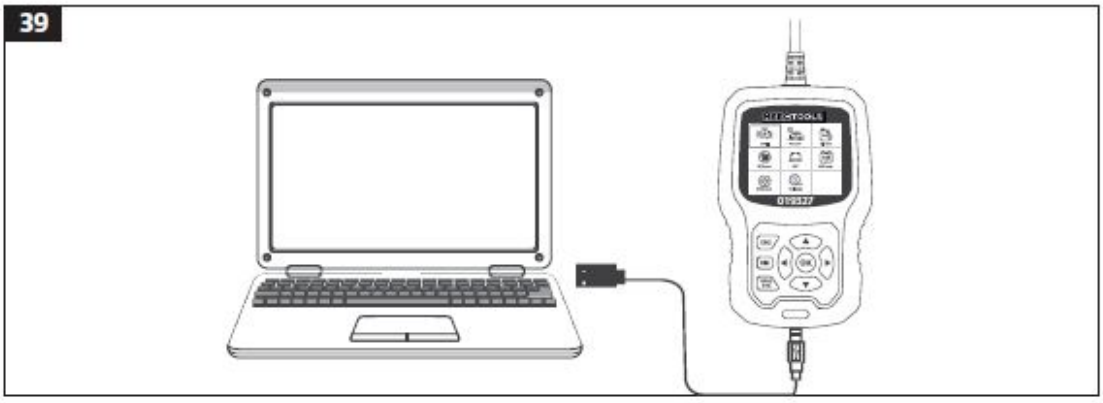
Unit of measure

Press Unit of Measure and select Metric or Imperial.Press Skin Style (background colour) and select colour, Sky Gray or Gem Blue.In the case of unreasonable test results or other problems when using the product the test results can be sent to the manufacturer with the feedback function. Press Feedback. The following display image is shown:Now press the EXIT button several times to return to the main menu.







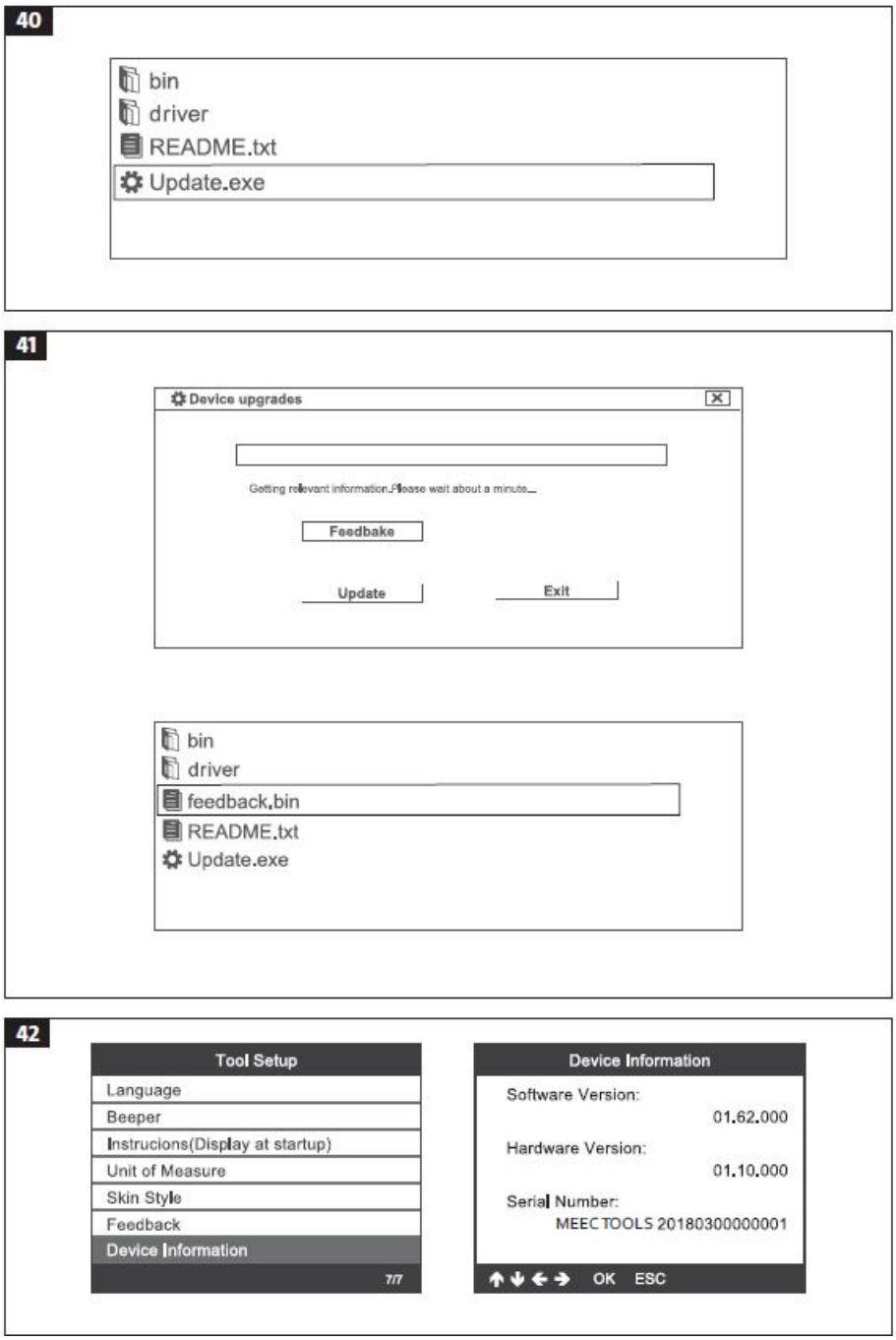


Example

Fault when registering change of battery.

1. Select the option Register Battery Change and register the battery change again (this step is very important).
2. Disconnect the product from the vehicle when the battery change is registered.
3. Connect the product to a computer with a USB cable, transfer the data and create a feedback file (an upgrade file must first be downloaded from the AUTOPHIX website to the computer).

4. Select Update.exe, the following display image is shown: Click on Feedback, the following display image is shown:



5. Click on Device Information, the following display image is shown:

DEVICE UPDATING

Connect the product to the computer with a USB cable.

- The updating software is only supported by Windows 7, 8 and 10.
- Windows 8 and 10 can run the updating software directly, but a drive routine must be installed for Windows 7.

Documents / Resources

	MEEC MEEC TOOLS 019327 Fault Code Reader [pdf] Instruction Manual 019327, Fault Code Reader, Code Reader, 019327, Reader

References

- Jula â€“ products for home and garden
- Jula - Mikään ei voi pysäyttää sinua nyt!
- HTML
- Jula – ingenting kan stoppe deg!
- Jula – Teraz nic Cię nie powstrzyma!
- Jula – inget kan stoppa dig nu!