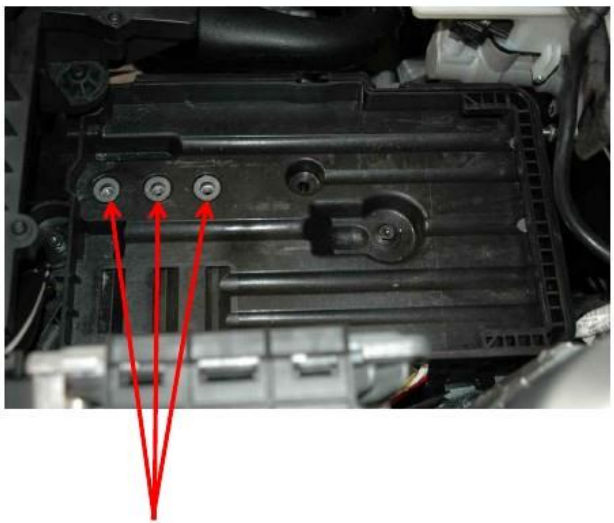
News - wiring

Contents:

- Variable battery holder
- Alternator
- Relay and fuse box
- New E-box
- Thermal fuse (J-Case)
- The new position engine control unit
- Connection box
- Socket 230

Battery

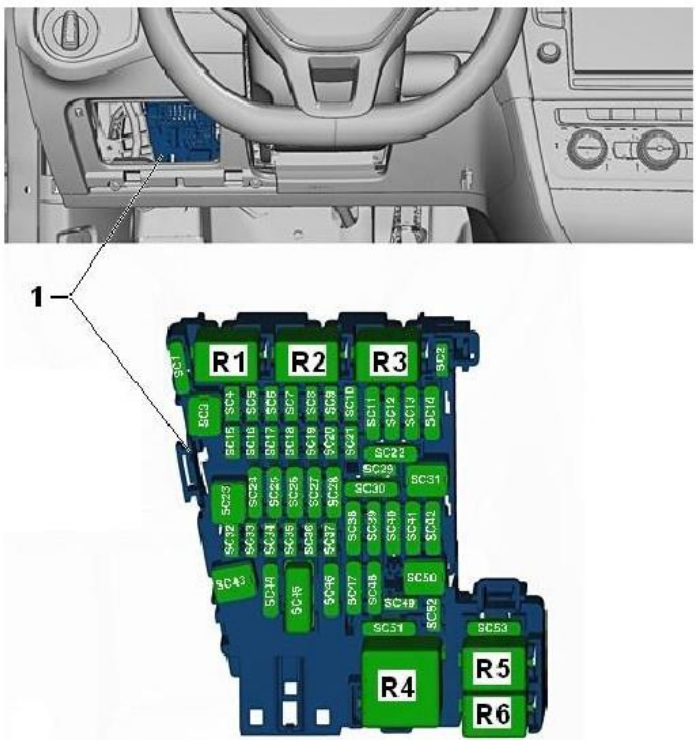


the position of the battery holder

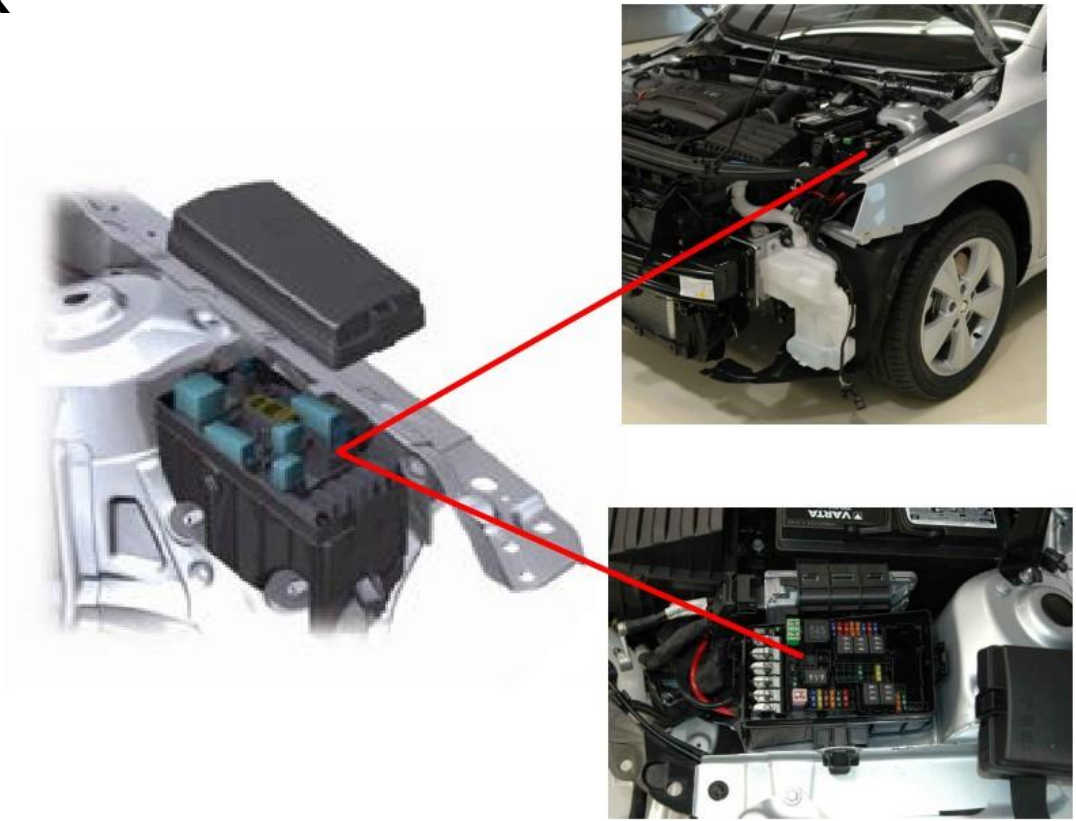
Alternator

As for vehicles with start-stop is controlled alternator LIN Bus ride

Relay and fuse box



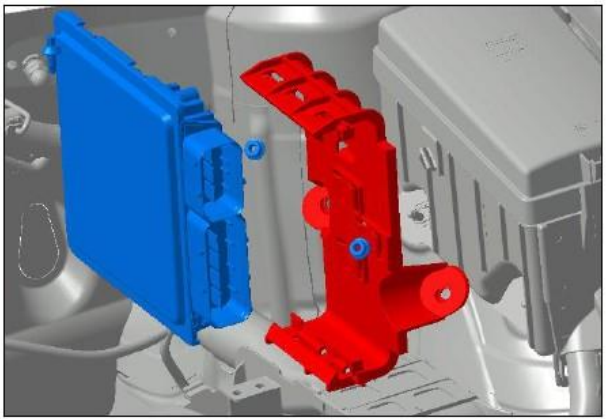
E-Box



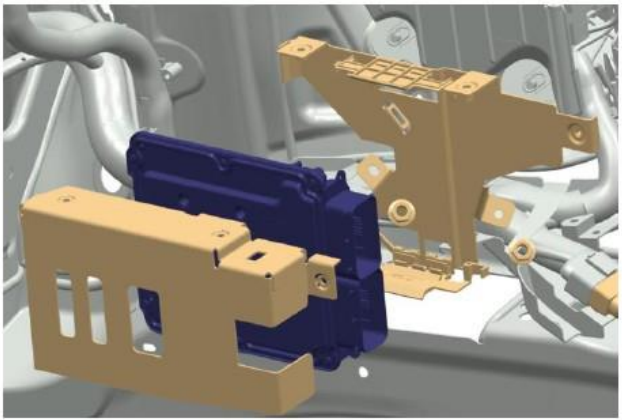
New fuses JCASE

CU BCM

Engine control unit



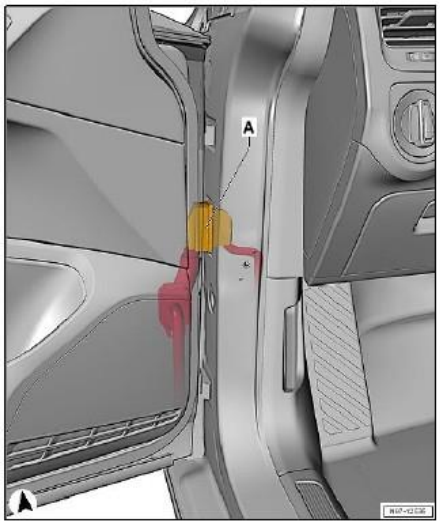
plastic holder nezakrytovaná



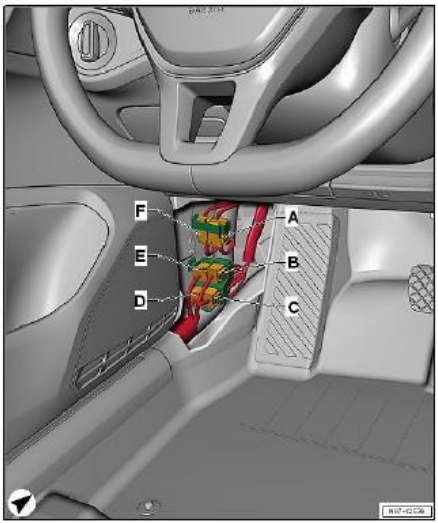
metal holder protector for

Connection box

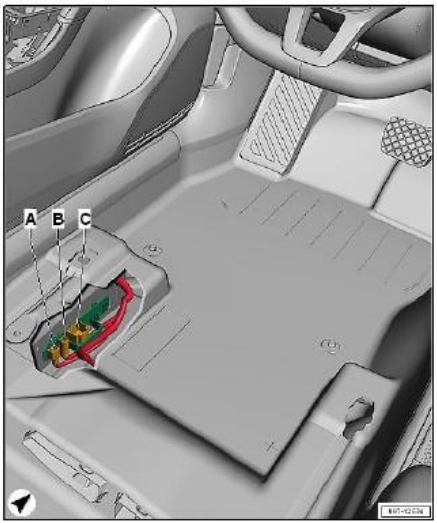
Modular wiring harness



Connecting door beam

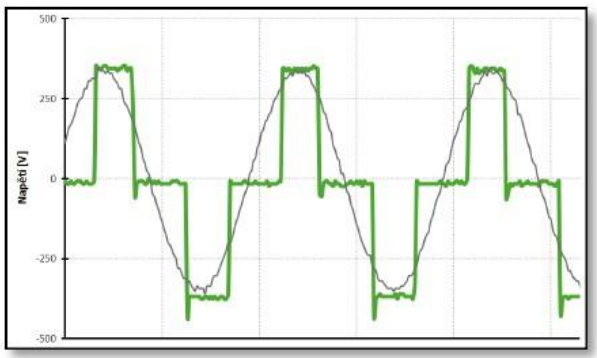


Connecting space
A post on



Linking the front seat

Socket 230 - Basic Information



Operation 230V outlet

Inactive

- Ignition is switched off or unplugged any appliance - without plug 230V

Active

- Ignition and appliance plugged in - Power at 230V

Temporarily inactive

- Ignition on, the appliance plugged in, but the auto protection - without plug 230V

- **Error condition**
  - Long-term overload (current long-term greater than 18A) - 230V socket without

Inactive

Active

Temporarily inactive

Error condition

Examples of use

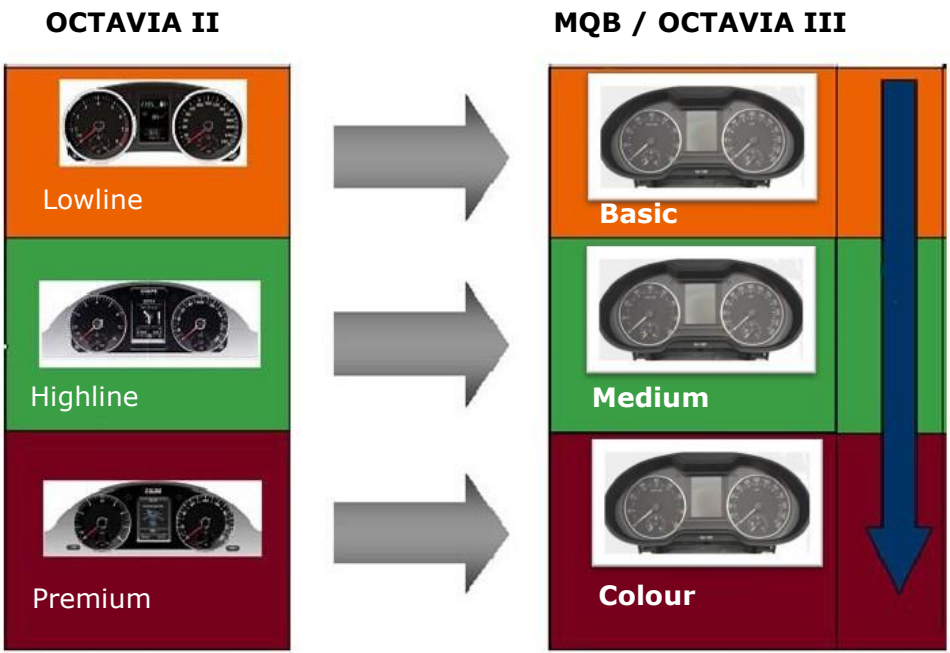
COMFORT SYSTEM

Contents:

- Instrument cluster
- Immobilizer 5th generation
- Radar (ACC)
- Assistance systems
- Lights
- BCM
- Door Systems
- Memory seat
- 5.dvere OCTAVIA COMBI
- Kessy

  DRIVE MODE

Instrument cluster - MQB



BASIC without MFA	BASIC with MFA	MEDIUM	COLOUR
❑ Display White 480 Segments	❑ Display White 480 Segments	❑ Display 3.5 "TFT monochrome (black / white)	❑ Display 3.5 "TFT color
Manufacturer: ❑ JCI	Manufacturer: ❑ JCI	Manufacturer: ❑ JCI ❑ Continental	Manufacturer: ❑ Continental
Equipment: Comfort	**Equipment:** Ambiente, Elegance **Optional:** Comfort	**Equipment: Laurin & Klement** **On request** Comfort, Ambiente, Elegance	**Optional: Ambiente,** Elegance, Laurin & Klement
			

❑ It will release LPG / CNG - Separate fuel indicator - Analog

Comparison MQB Basic

Lowline

240 Segments

Octavia II

Basic

480 Segments

Octavia III

Comparison

Highline / MQB Medium / MQB Colour

Highline

110 x 166px

Octavia II

Medium

Black / White

240 x 320px

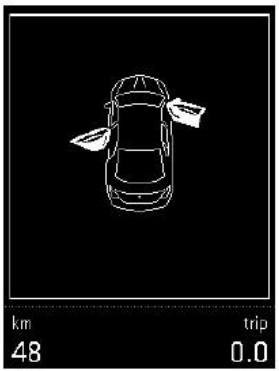
Colour

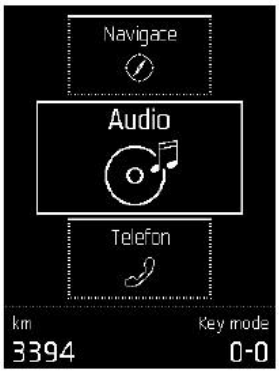
colored

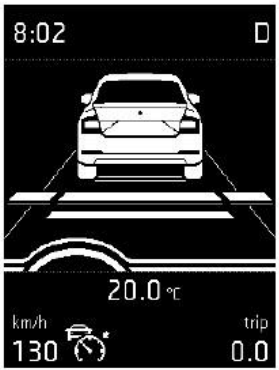
240 x 320px

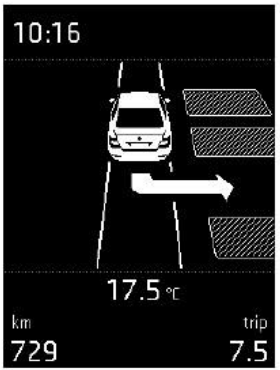
Octavia III

Display - Graphics - examples









Speaker

The speaker is an important signaling element in the failure of the defect listed on the display.

Immobilizer 5th generation

- From the customer's perspective, nothing changes.
- From the perspective of service is an entirely new generation of security.
- Data in the vehicle are quite different - it works as a whole.
- Data are dependent on the equipment, the number of units, these units etc.
- All adapts and stores across FAZIT.
- Replacement units - need access GEKO.
- **Newly in FAZITU** - RJ automatic transmission (such as engine control unit)

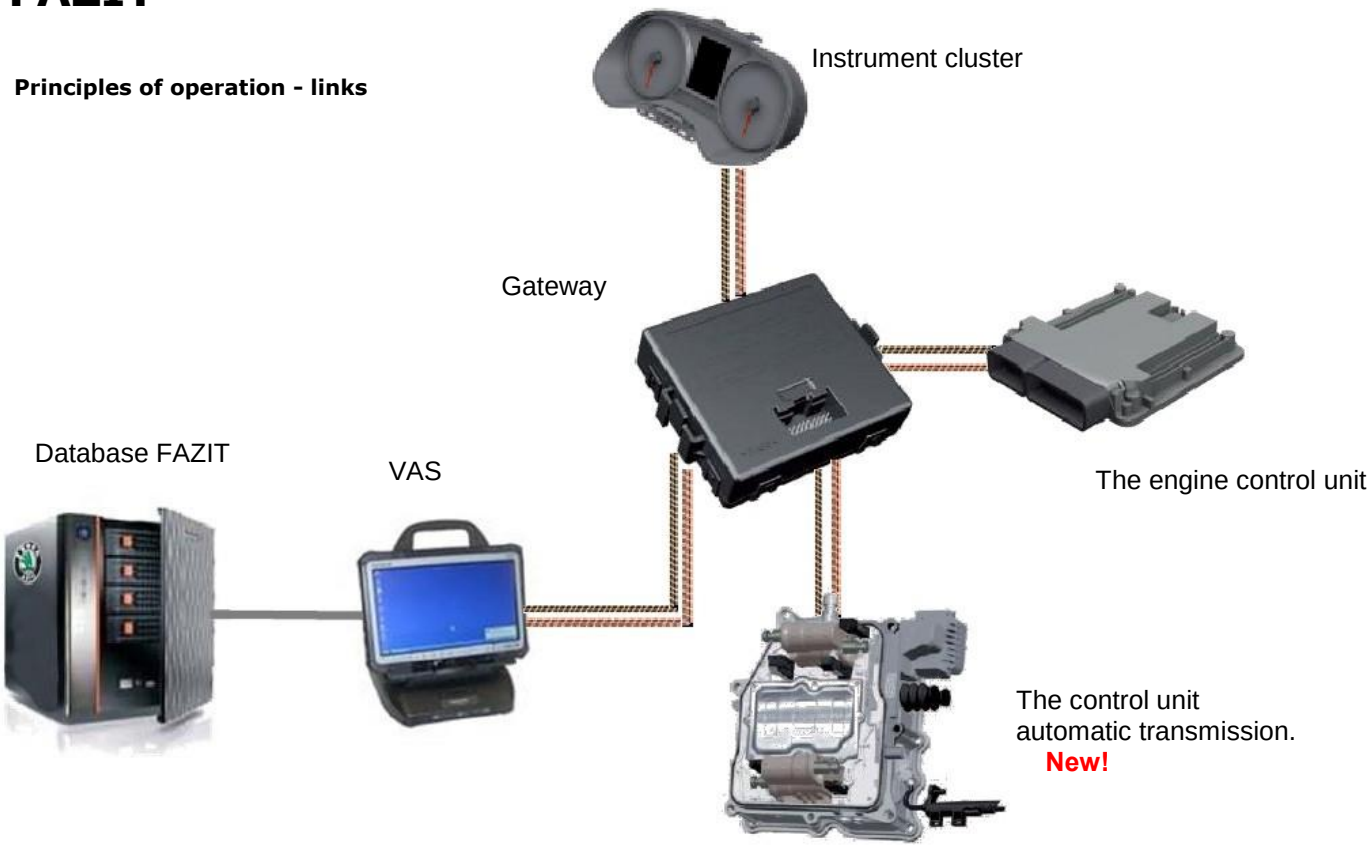
FAZIT - Contains the correct version of the combination of vehicles and allow them to proper function - to indicate the operating status
- Enrollment key
- Folds to adapt the code - depending on the equipment
- If the new part and the new data to all units

POLICE - Receives data (the database is in Germany)
- Within 24 hours after the theft block access
- Get info on stolen car parts or

5th generation - Now in cars on the MQB platform and then all the new models.
Customize online only
If you try to adapt **Part of a stolen car** - The diagnosis message system inaccessible

FAZIT

Principles of operation - links



PROTECTION COMPONENTS

- It will not prevent stealing, but limit use in another vehicle
- The components are adapted over FAZIT - ON-Line - GEKO
- Only diagnosis ŠKODA - ODIS
- Each part has a unique number - FAZIT
- To customize - like IMMO through the exchange control unit.
- Can be customized and used a new control unit.

When customizing:

- Quick message - error message "active protection components"
- Check every 15 min and driving and if you do not adapt to the limit function

PROTECTION COMPONENTS

PROTECTION COMPONENTS

MASTER DRIVE - GATEWAY

SWaP

Activation of safety and comfort features for a fee.
(Software for a fee)

Examples:
- Navigation data
- Recognition of fatigue
- Cruise control
- Selecting the Drive Mode

Units that allow swaps:
MIB - navigation, RADAR - ACC, GATEWAY

It will also free software - such as BLUETOOTH - will be updated database of mobile phones

When can implement SWaP:

- A new car
- After Sales

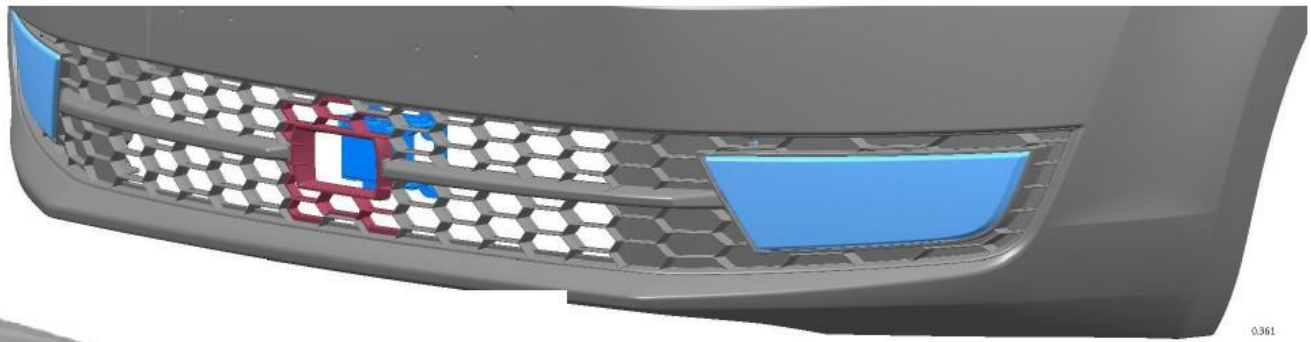
Driver assistance systems

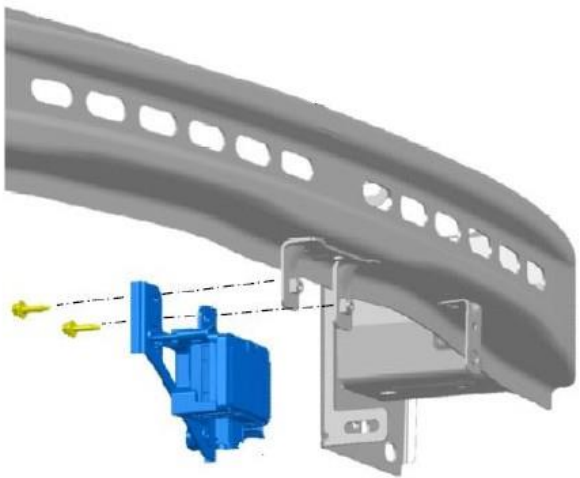
In modern coaches with driver assistance systems use (Fahrerassistenzsysteme - FAS) to support the driver while driving, but also in comfort, safety and infotainment systems deployment. These systems support driver either visual, haptic (tactile) and acoustic signals, which the driver warn of potential hazards or assists the driver by automatic intervention.

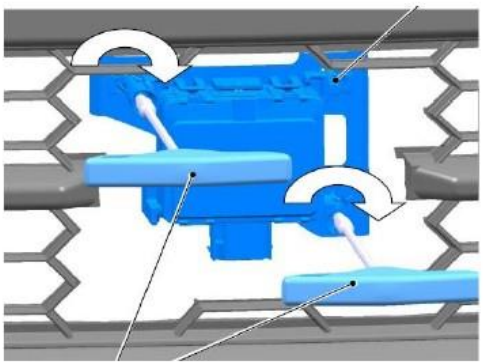
For Octavia III, these assistance systems:

- Adaptive cruise control
- Front Assist
- Assistant holding in the lane
- Daytime running lights
- Recognition of traffic signs
- Second generation Park Assist
- Detection of fatigue
- Multikolizní braking
  Pre-Crash Basis

Radar







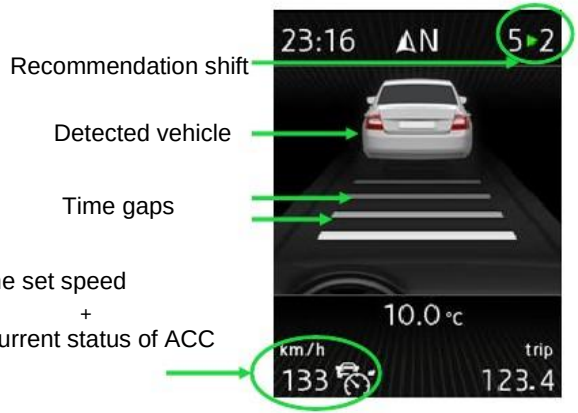
2 1

Adaptive Cruise Control (ACC)

Controlling third beneath the switch

Only the ACC

Views on the Maxi-DOT



Front Assist

- The system uses a radar sensor detects a critical situation in the distance from obstacles and help shorten the braking distance.

- Front Assist is part of the automatic cruise control (ACC) works but independently even when off control speed and distance.

Display the Maxi-DOT

Warning distance
Optical notice

Pre-warning
Increase the braking pressure
optical / acoustic warning

Main warning
Increased sensitivity brakes
The warning vibration brakes
Start automatic partial braking

The automatic brake intervention
Increased sensitivity brakes
Automatic minimizing the consequences of a collision through increased comfort delay if the driver does not brake

City-ANB
Maximum speed reduction in the range <30 km / h

Strengthening braking
The increase brake pressure to minimize collisions

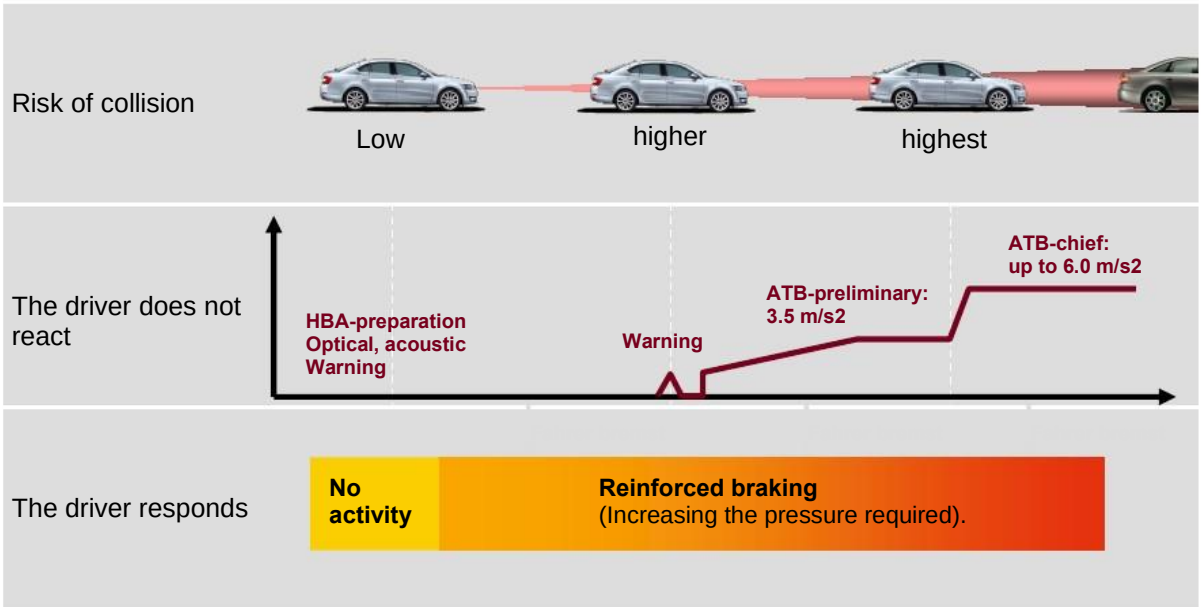
ANB = automatic emergency brake

Front Assist above 30 km / h

Risk of collision	 Low	higher	highest
The driver does not react	**Warning** (Optical, acoustic) **HBA-state 1**	**Main warning** (Shock), **ATB-preliminary HBA-State second**	**ATB-Main stage**
The driver responds	**No activity**	**Reinforced braking** (Increasing the pressure required).	

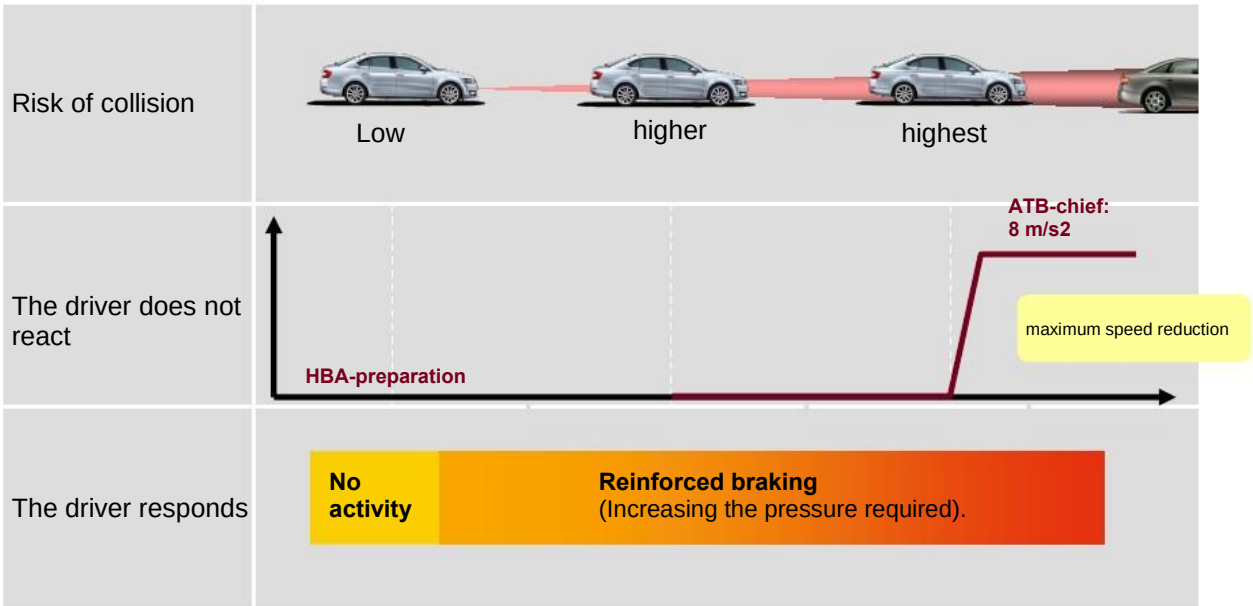
HBA = Hydraulic Brake Assist
ATB = Automatic braking

Front Assist above 30 km / h



HBA = Hydraulic Brake Assist
ATB = Automatic braking

Front Assist up to 30km / h (CITI)



HBA = Hydraulic Brake Assist
ATB = Automatic braking

Second generation Park Assist (PLA 2.0)

The driver supports single optimal movement of the steering wheel to perform parking at the ideal line. The driver just accelerates and brakes. In doing so, must constantly control of the vehicle.

Features:

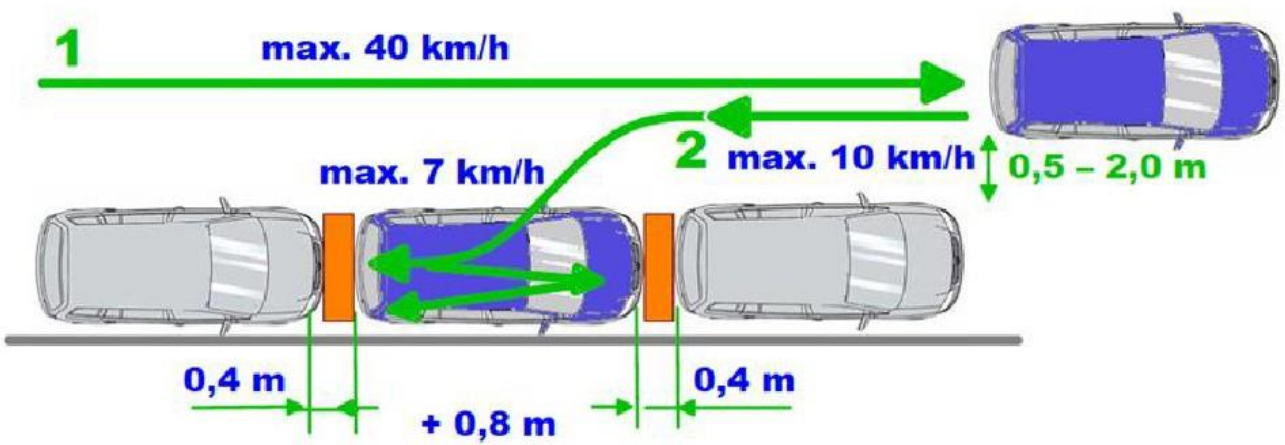
- **Parallel parking**
- **Cross parking**
- **Vyparkování (Longitudinal parking space)**
- **Emergency braking function**
- **Privacy hips and OPS 360 °**
- ☹ ♓ ■ ♓ ♏ **track**
- **Automatically activated**

› Number of sensors - **12**

Second generation Park Assist (PLA 2.0)

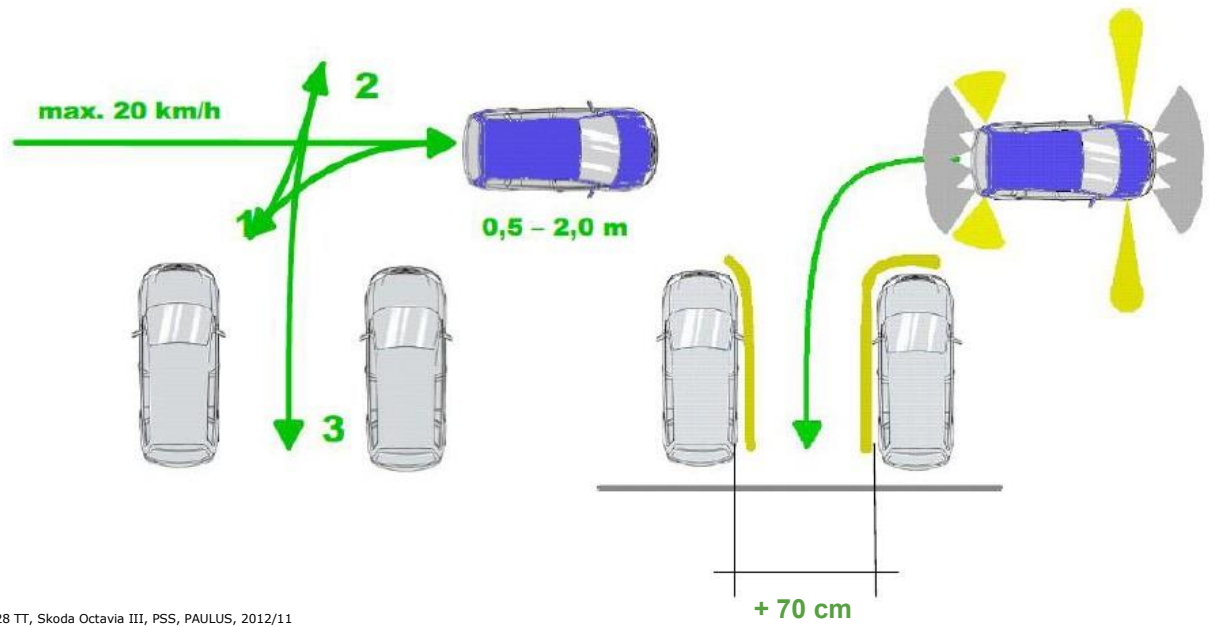
Parallel parking

- Parking the smaller objects (trees, containers)
- Parking in turn
- Indicator determines the side on which the park



Second generation Park Assist (PLA 2.0)

Cross parking



Second generation Park Assist (PLA 2.0)

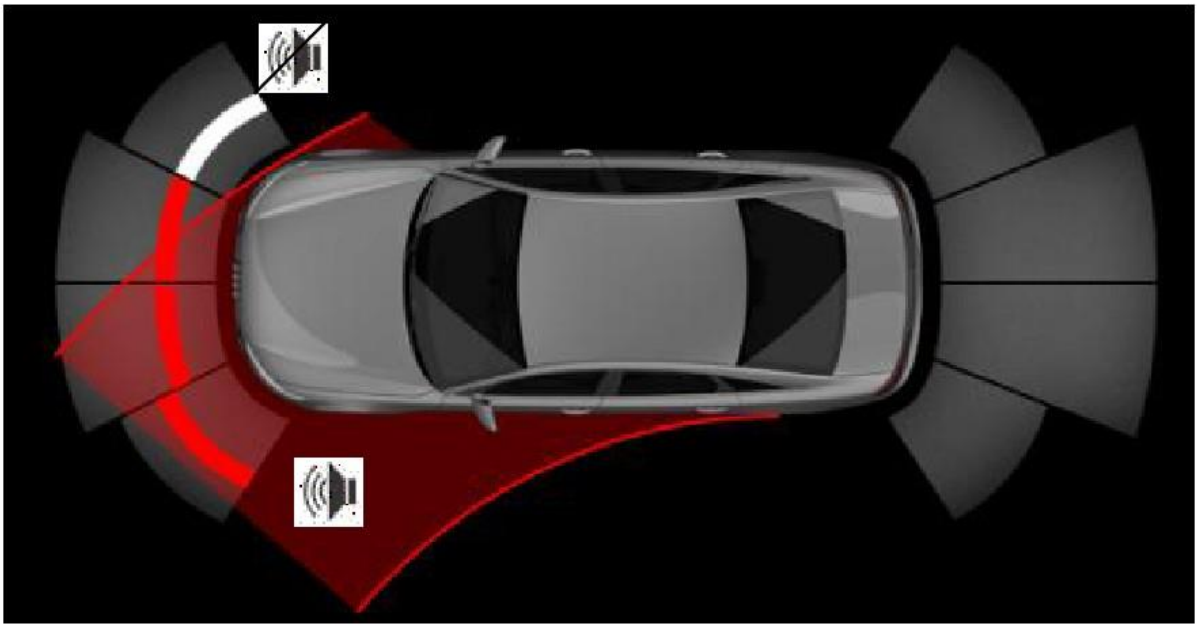
Privacy hips and OPS 360 °

- Extends the current OPS of sectors on the side of the car
- U "protection of the hips" is the measured distance from obstacles on the sides of the car

Second generation Park Assist (PLA 2.0)

Line track

- Obstacles are reported optically and obstacles in the driving the track also acoustically (reduced sound output)

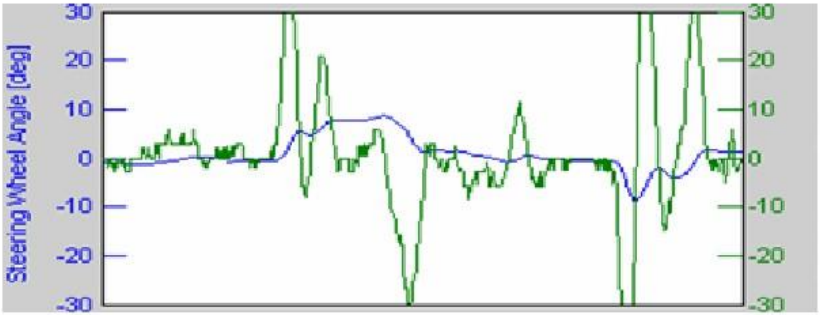


Pre-Crash Basis (PCB)

You can enable or disable the MIB.

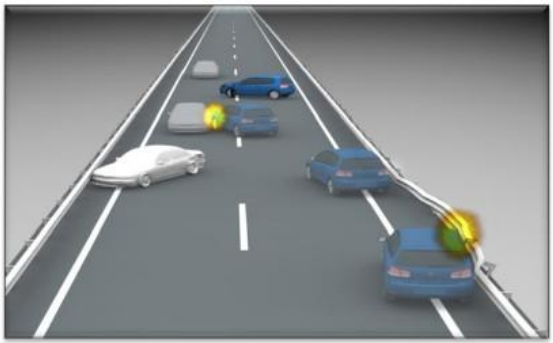
Recognizing fatigue (MKE)

Display the Maxi-DOT

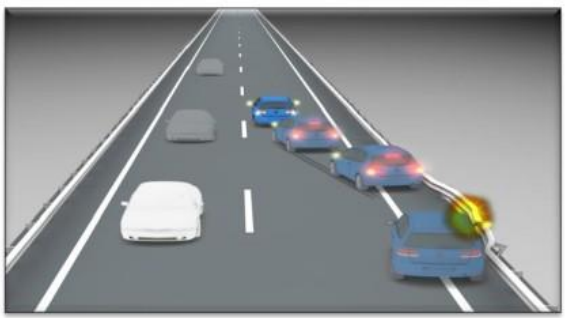


Information about the steering angle of the ESC

Multikolizní brake (MKB)

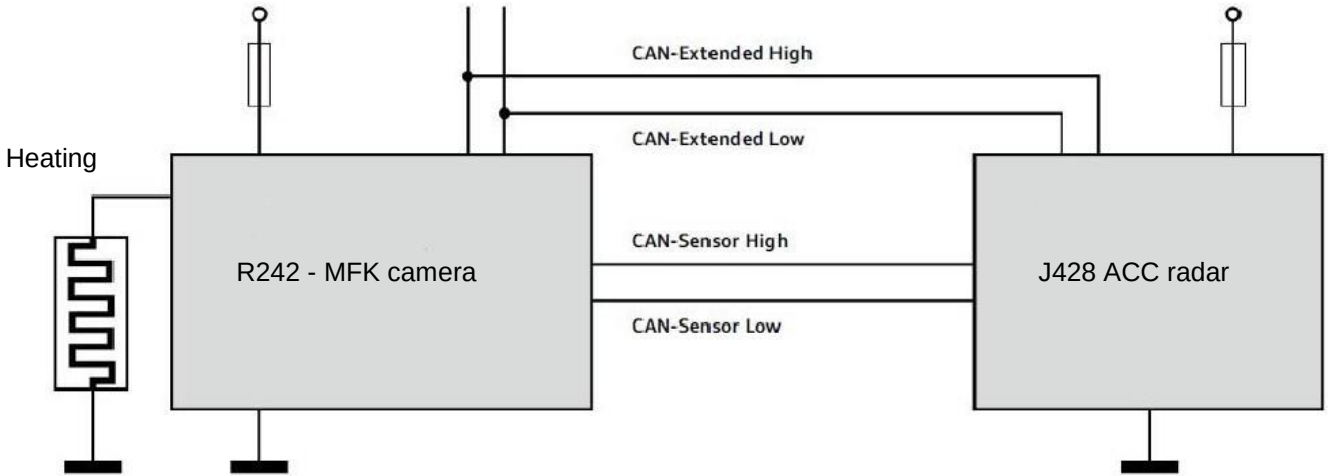


Without braking multikolizního



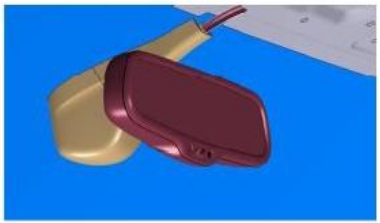
S multikolizním braking

MFK - Camera

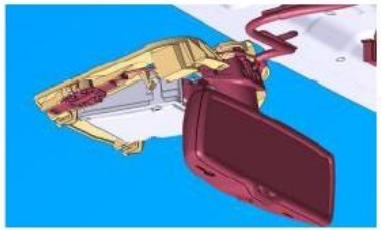

CAN-Extended High
CAN-Extended Low
Heating
R242 - MFK camera
CAN-Sensor High
CAN-Sensor Low
J428 ACC radar

Beam assistant (FLA)

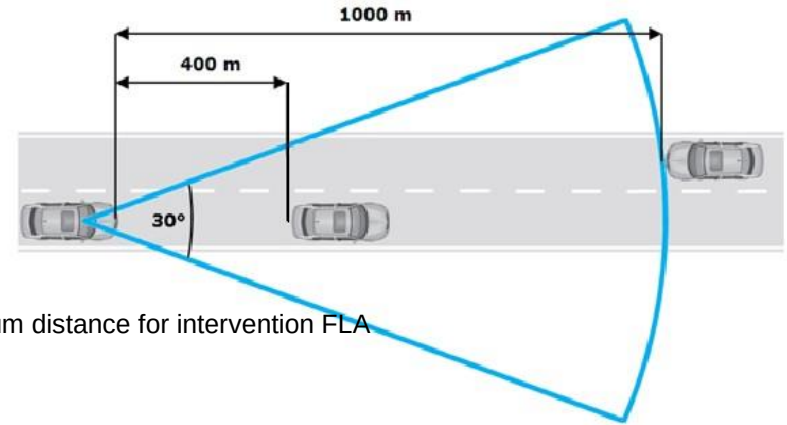
Display the Maxi-DOT



FLA as a separate part



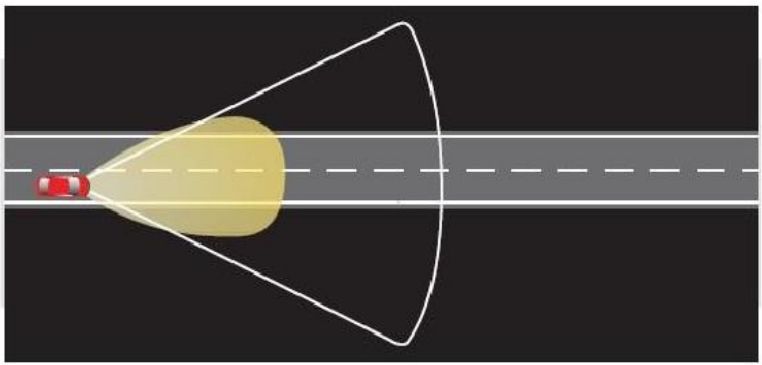
FLA as an integrated feature MFK

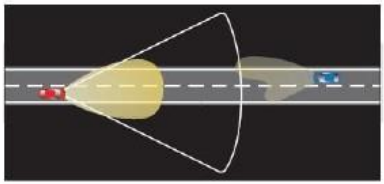


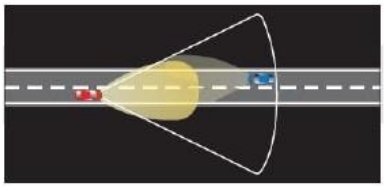
Minimum distance for intervention FLA

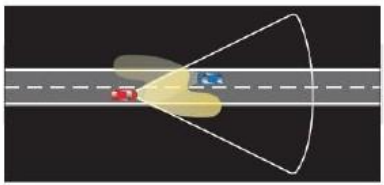
MFK - Multi-camera

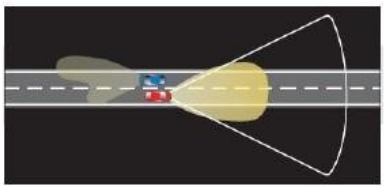
Beam assistant (FLA)



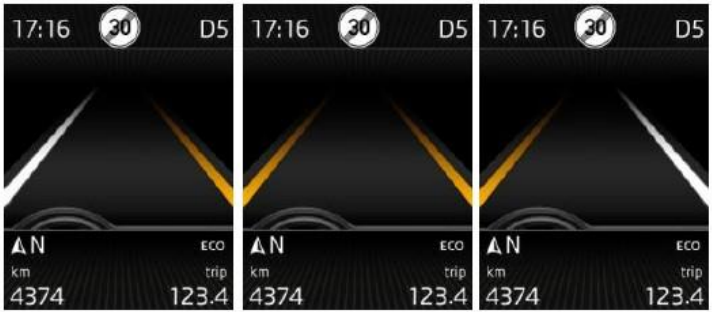






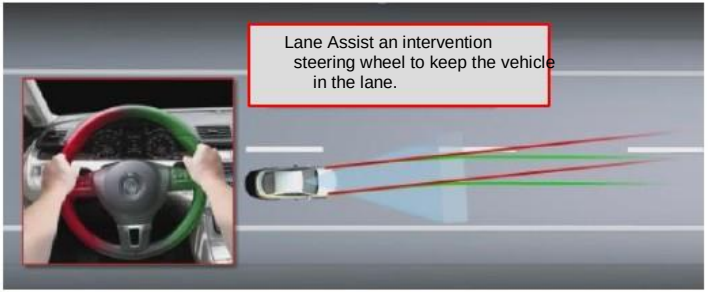


Assistant holding Lane "Lane Assist" (LA)



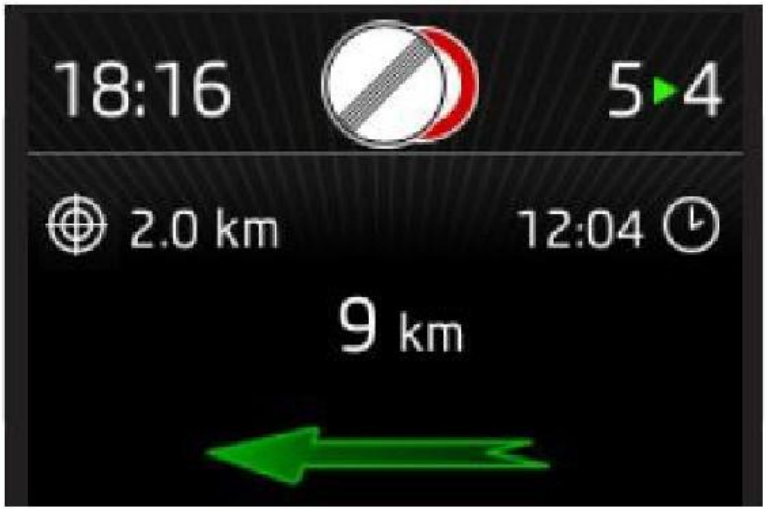
Views on the Maxi-DOT

Required equipment:
MFK



Recognition of traffic signs (VZE)

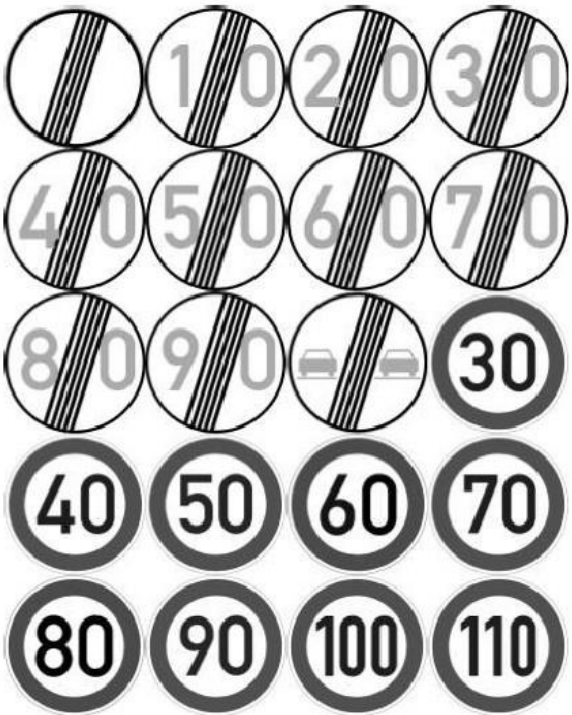
Required equipment: MFK



Views on the Maxi-DOT

Example of brand recognition CR

Base:



Additional:

CU BCM

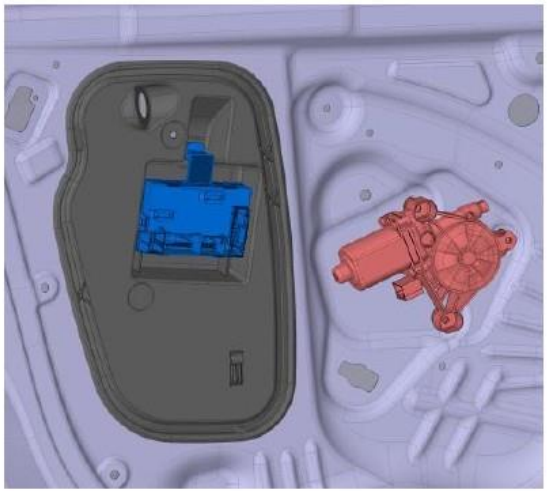
BCM

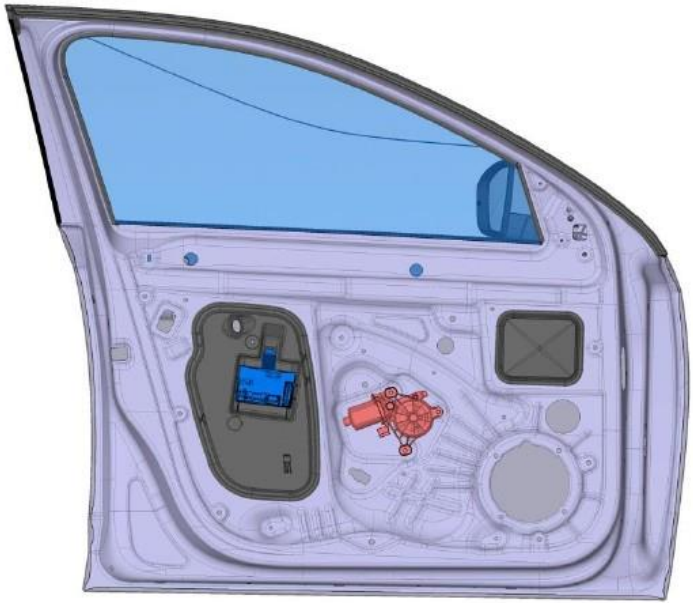
New features:

- CAN Bus Comfort with a transmission rate of 500 kbit / s
- new separate LIN Bus
- direct control of the heating of the front seats
- sensing of fluids (coolant, brake, washer)
- shooting brake pads wear
- new wireless communication encryption key
- lock / unlock button uses the Toggle and is controlled by central unit, one button
- concept dimování - Ambient lighting for the door opening
- controls the rear side door locks
- new keys as Kessy

Door Systems

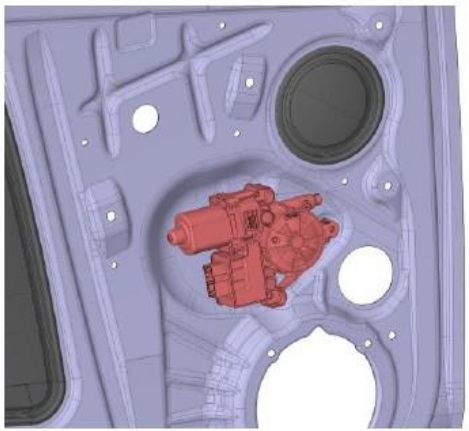
Installation of the front

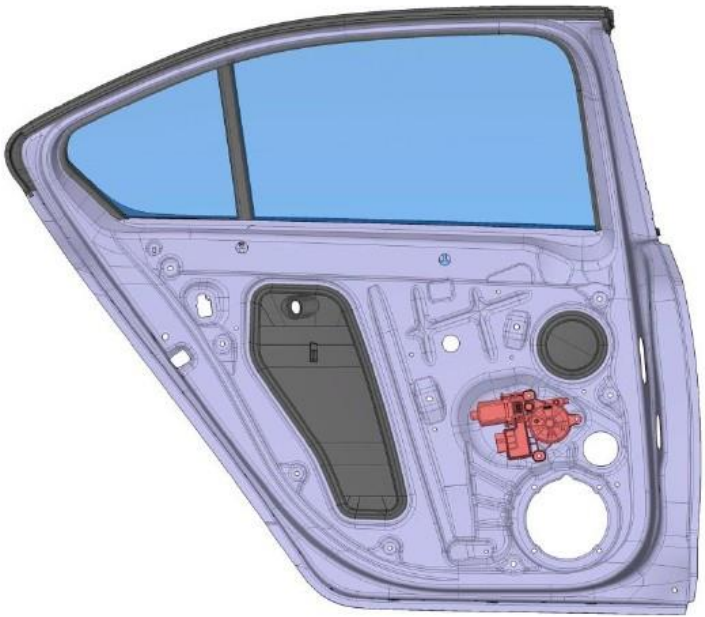




Door Systems

Installation of the rear



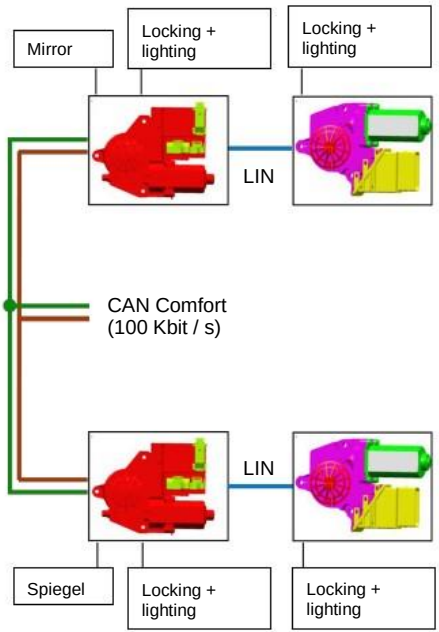


Note: The rear doors do not own diagnostic address.

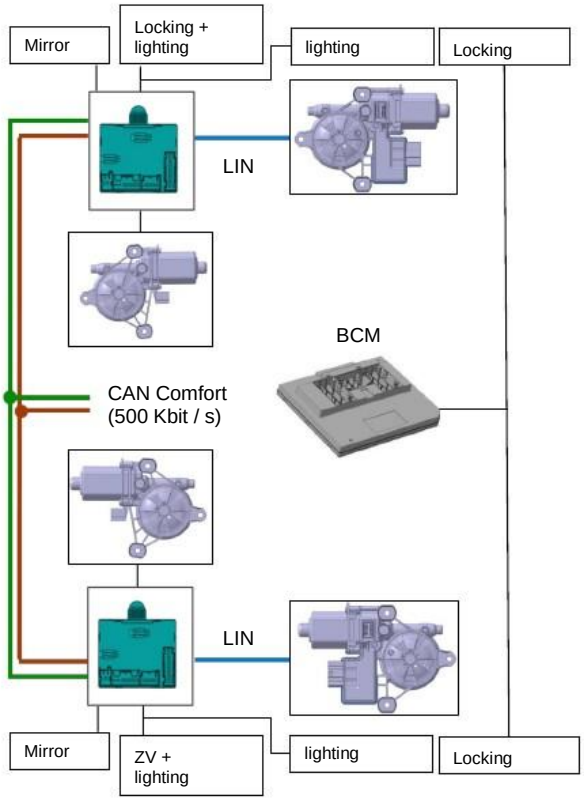
Door Systems

Comparison:

Octavia II



Octavia III



Door Systems

Basic functions – windows

Trap protection (EKS)

- When in force limiter to recognize obstacles, the window stop and fall a few inches below (valid only for the direction of closing)

Evaluation of the current position of the window

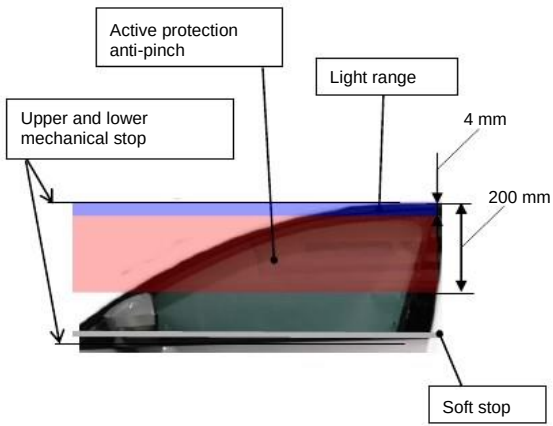
- system evaluated by measuring the current actual position of the window

Soft stop

- because of the stress of the boot drive window stops a few millimeters above mechanical stop

Sanfteinlauf (light range)

- because of the stress of the boot drive unit stops the window immediately after detecting the upper mechanical stop on the basis of current measurement



Door Systems

Basic functions – windows

Convenient opening / closing windows

- controlled by the central electronics (BCM)
- Control sites: - Lock cylinder
  - Remote control
  - Kessy

Precrash

- evaluate if the car approaching the accident and windows are more open will pinch on their value (approx. 55 mm)

Door Systems

Basic functions - mirrors

Folding mirrors (via joystick)

- mirror can be folded up to a speed of 50 km / h (previously up to 15 km / h)
- mirror tilts independently of the speed

Comfortable folding mirrors

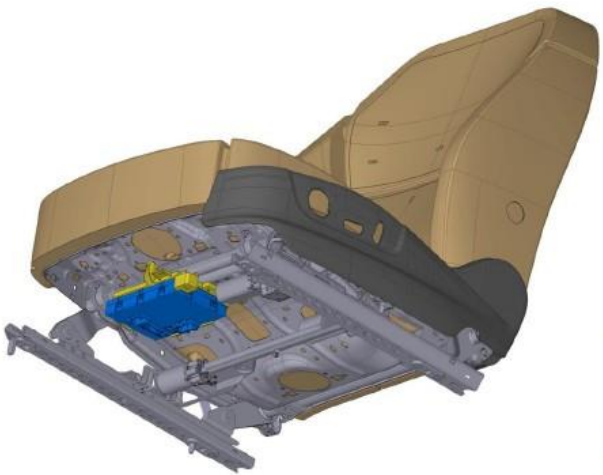
- controlled by the central electronics (BCM)
- activation comfortable folding exterior mirrors, parking position via remote control
- for comfortable lifting into the driving position will unlock the car, open the door and turn on the ignition
- If the mirrors are folded over the joystick, you can only take off over the joystick
- If the mirrors are folded over the "tipping Comfortable" can be avoided by setting their lifting the joystick to position the tilt before ignition

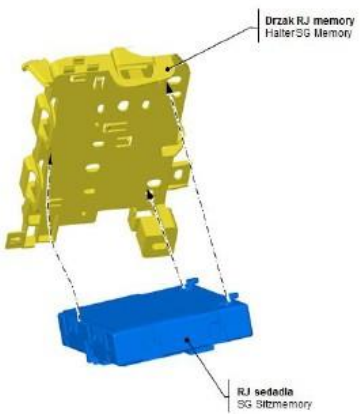
Heating of mirrors

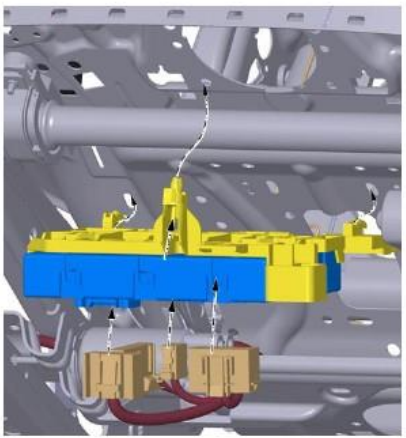
- calorific value can be switched on when the outdoor temperature to 35 ° C (previously up to 20 ° C)

Electronics Memory seats

Development







Electronics Memory seats

Basic functions

Memory electrically adjustable seats

- allows you to save the driver seat and exterior mirrors to control the position for driving forward and allows you to adjust the exterior mirror on the passenger side for reversing

- each of the three memory buttons can be assigned to one position seat

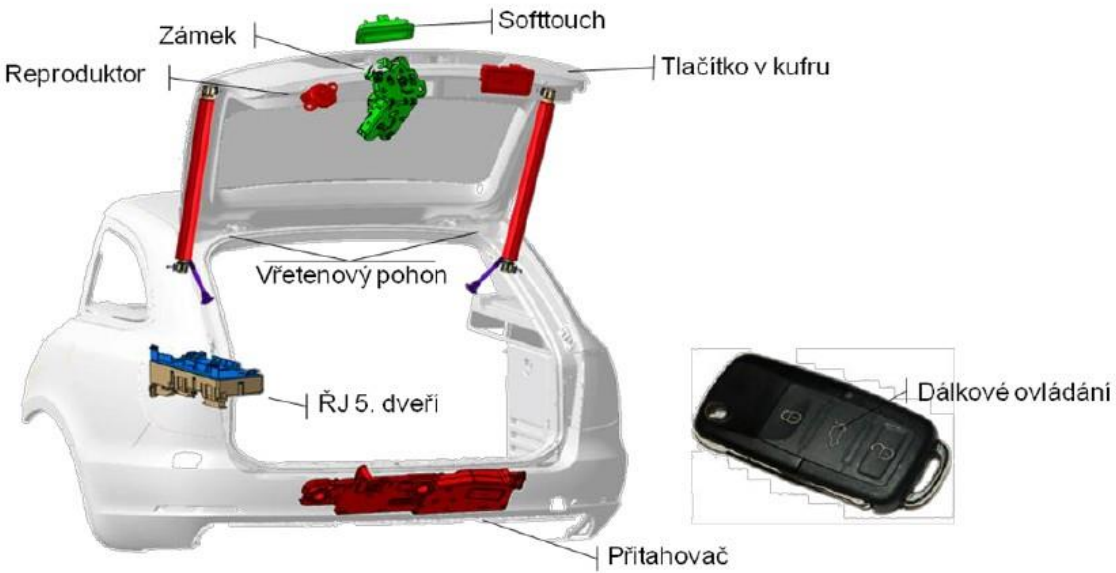
Memory keys with remote control

- FCE. Autosave position driver's seat and mirrors when locking vehicles

- seat and mirrors will be reset after the vehicle is unlocked with the same key in which they were
Locked up after opening door
- fci.lze activate / deactivate the remote control key and using CAR menu in Infotainment

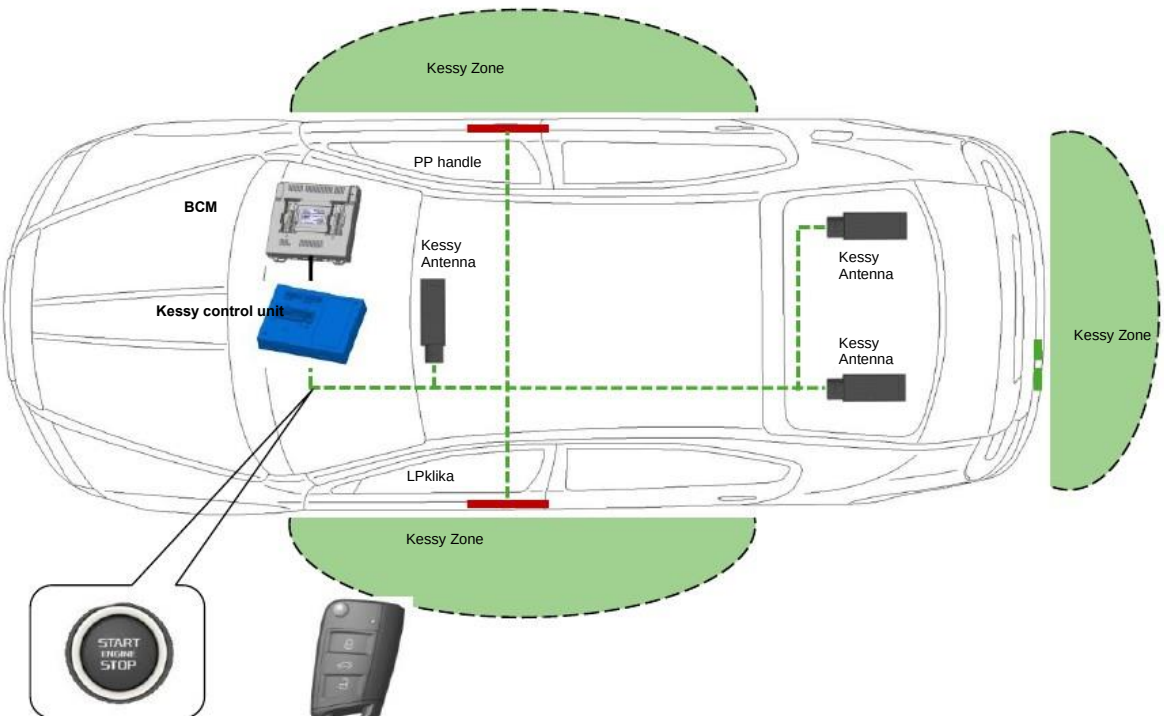
Electronic system boot lid

Description of the system



Kessy

Architecture



Kessy

Basic functions

- allows comfortable unlocking and locking the vehicle and its starting without active use the remote control key
- unlock / lock needs to be a valid key was located about 1.5 m from the handle Front door handle or tailgate

Unlocking

- to unlock occurs when grasps the handle of the front door or covers the whole palm sensor on the front door

Lock

- to lock eventually burns when touched fingers sensor on the front door
- before locking the door must be closed driver and passenger
- the lock can not be unlocked car 2s (you can check locking)

Unlocking the tailgate

- cover the 5th door is unlocked by pressing the handle of the boot lid (Softtouch)

Kessy

Basic functions

Protection against accidental lock the keys in the vehicle

- If you remain key after locking the entire car inside the vehicle protection is activated lock your keys in the car and the car unlocks
- for vehicles equipped with anti-theft alarm system with extra beep sounds

Report on the instrument cluster display

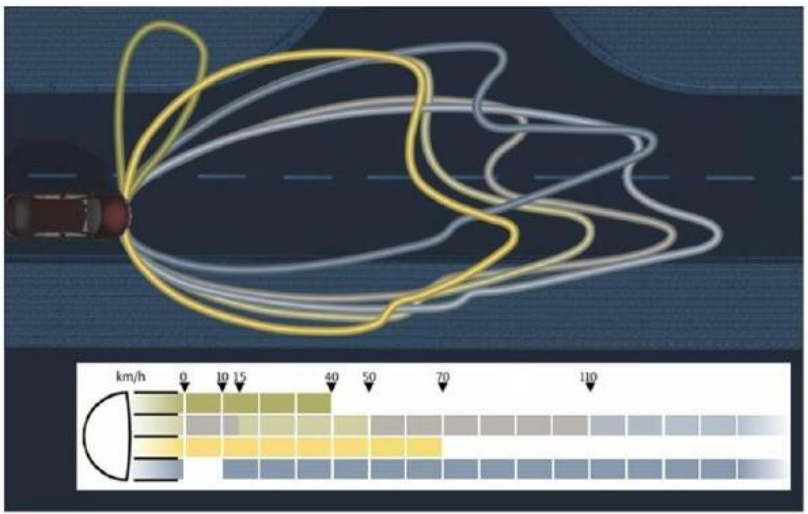
- **KEY IN CAR** - Key remained inside the car after locking
- **NO KEY** - The system does not find a valid key when attempting to start the vehicle
- **KEYLESS DEFECTIVE** - Error in the system Kessy
- **BATTERY IN KEY** - Low battery voltage remote control key

Also new is the automatic start without holding the start button for starting.

AFS - Adaptive headlights

CONTENTS:

- Version xenon headlights
- Description of the system



Version headlamps

Bi-xenon D3S with LED

Bi-xenon D3S

Halogen H 15

Adaptive Bi-Xenon headlights

TOP1

- Adaptive bi-xenon module
- Halogen lamp day

Controls:

- EVG
- Power module

TOP2

- Adaptive bi-xenon module
- LED - daytime running lamp / parking lights

Controls:

- EVG
- Power module
- LTM

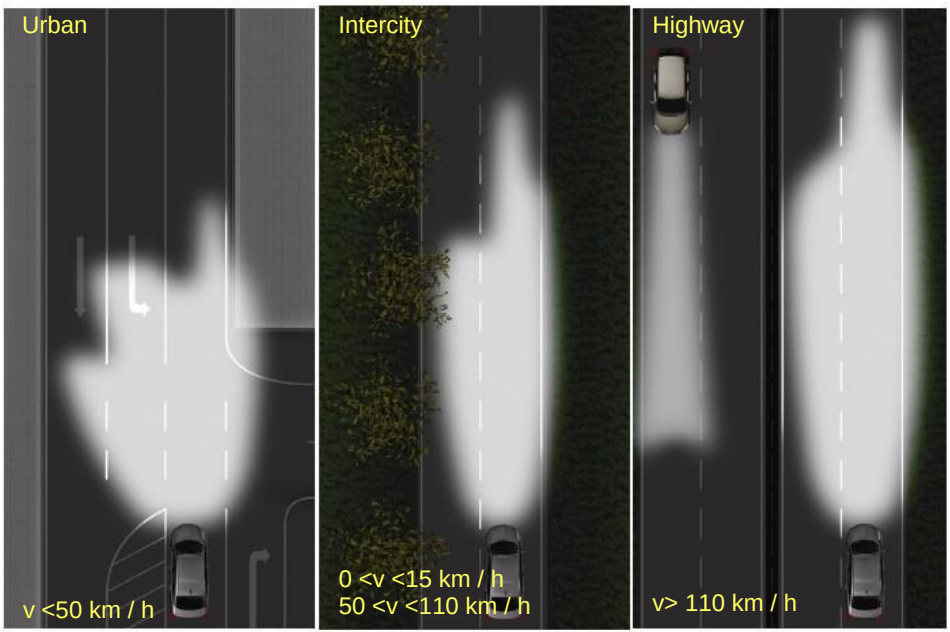
Version fog lights

Version taillights

Rear light with bulbs

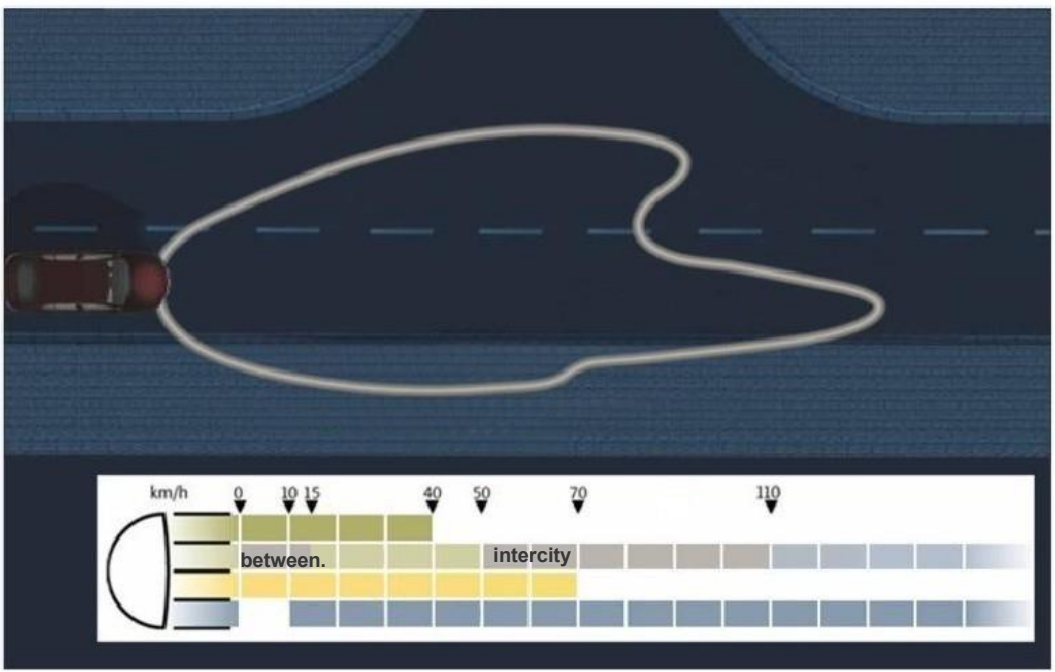
Equipped with LED rear light

AFS - Adaptive headlights



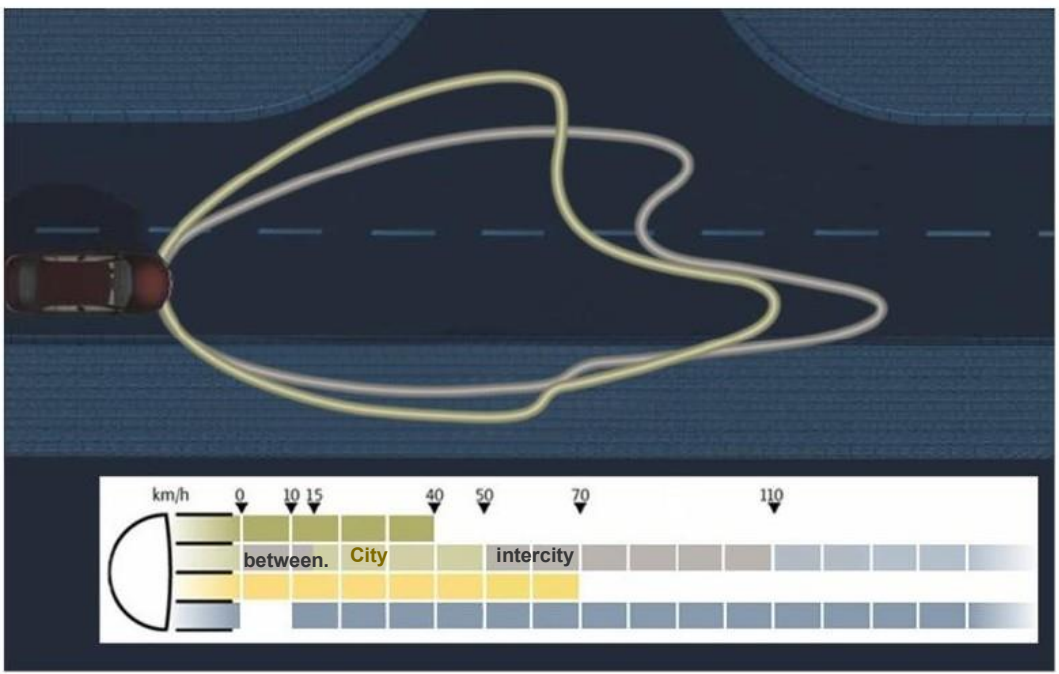
AFS - Adaptive headlights

Intercity light: from 50 km / h to 110 km / h



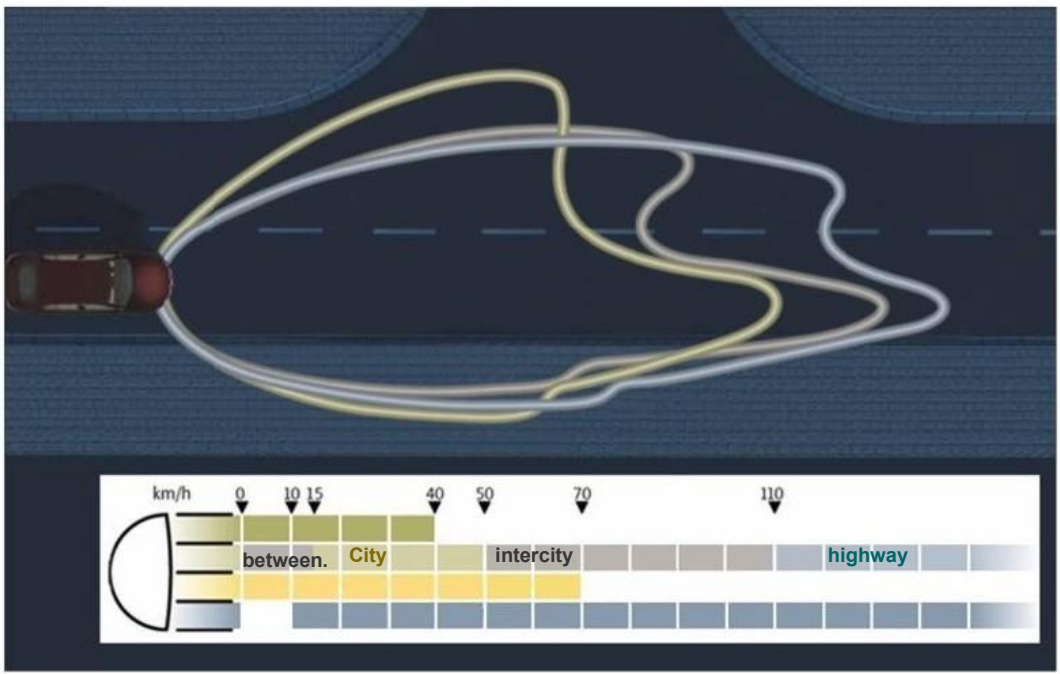
AFS - Adaptive headlights

City Light: from 15 km / h to 50 km / h



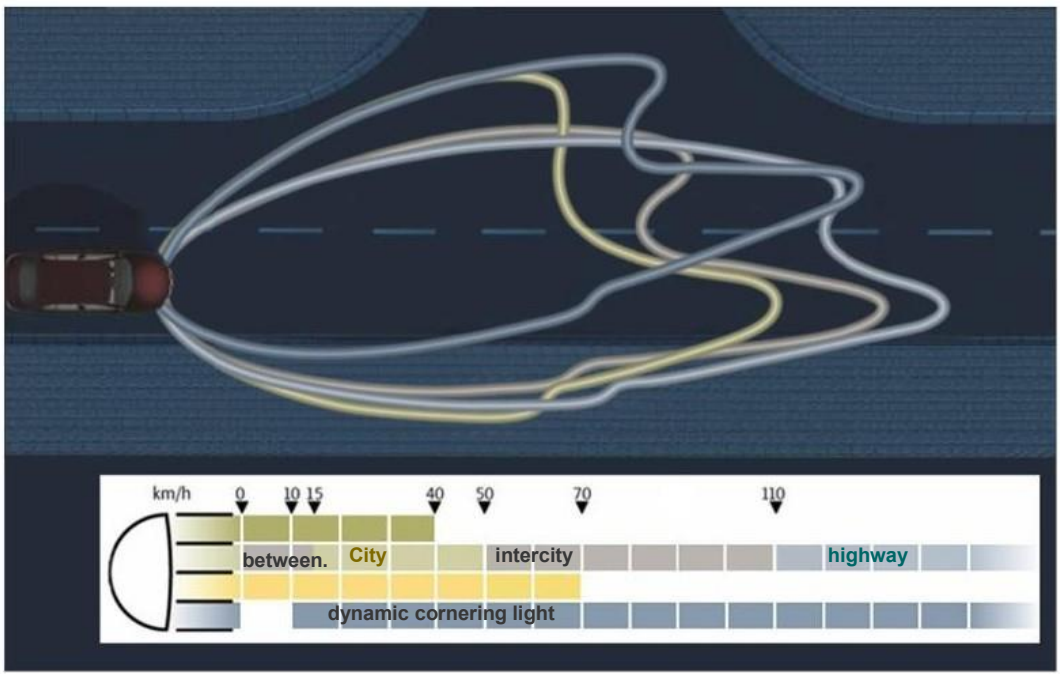
AFS - Adaptive headlights

Highway light: from 110 km / h



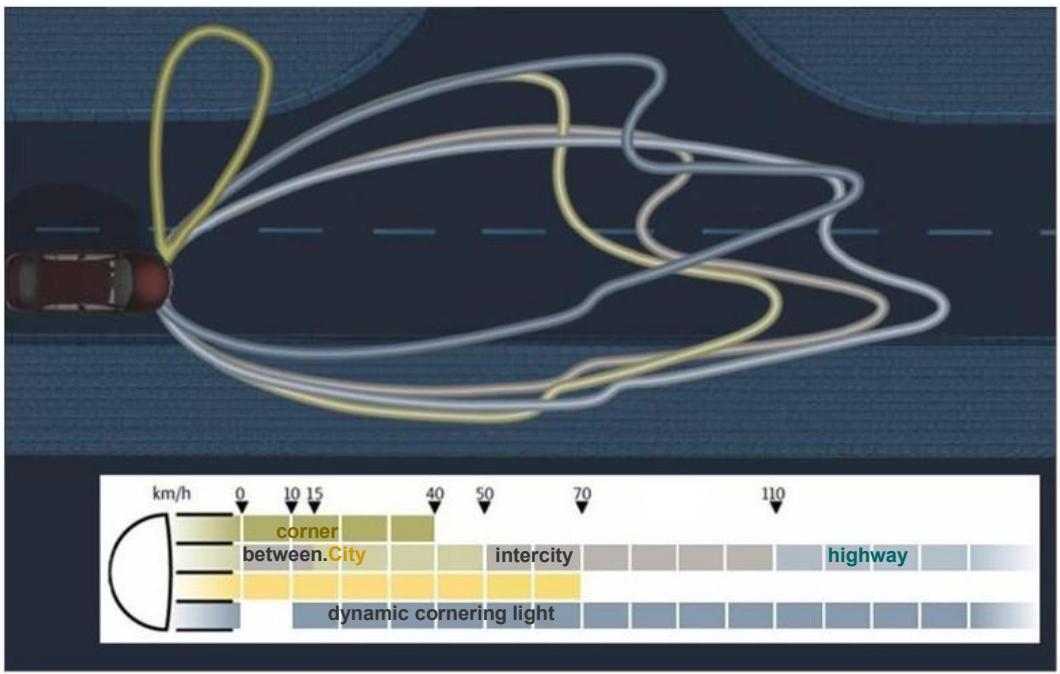
AFS - Adaptive headlights

The dynamic cornering light: Shooting outside + / - 15 °, inside + / - 7.5 °



AFS - Adaptive headlights

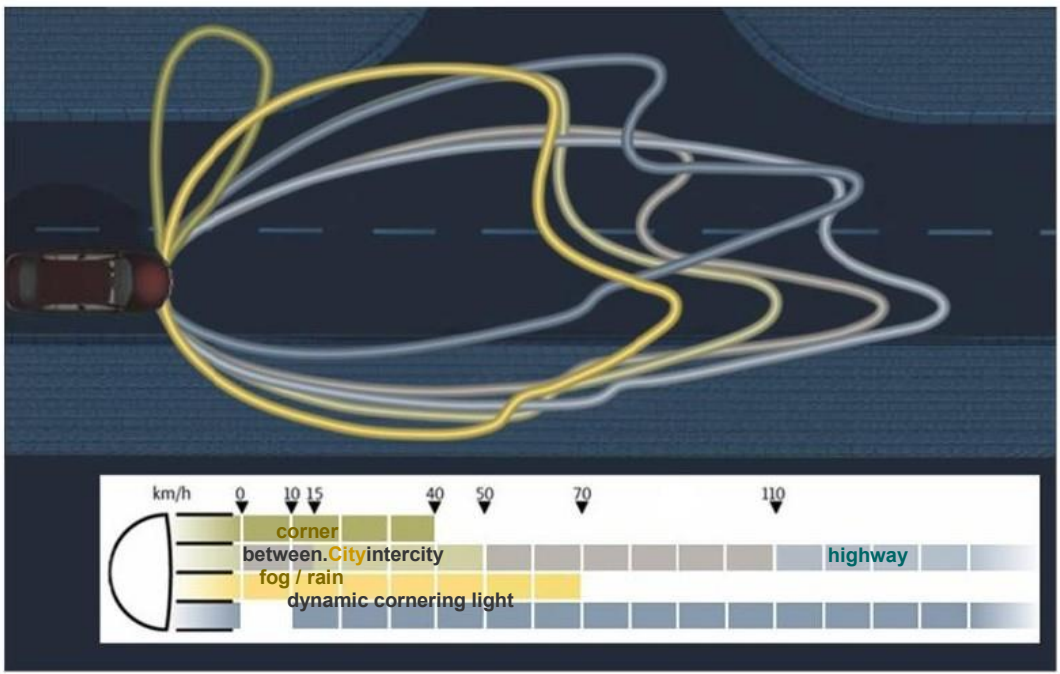
Cornering lights: statically dialed outside + / - 60 °, inwards + / - 30 °



AFS - Adaptive headlights

Light fog: from 15 km / h to 70 km / h

Light rain: from 20 km / h to 70 km / h



AFS - Adaptive headlights

Activation of AFS

LDS switch

Activation conditions AFS
- LDS in the "Auto"
- The intensity of ambient light is so low that light sensor activates the full external lighting
- no reverse gear
- is not enabled "tourist / travel mode"
- speed greater than 15 km / h

Terms of activating shooting
- speed higher than 10 km / h
- steering wheel

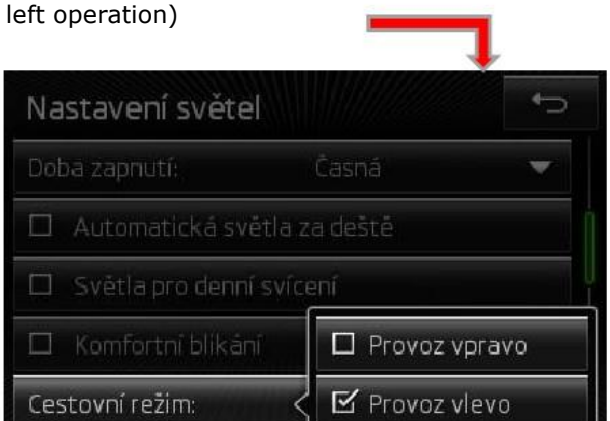
Filming lamp is possible in each mode AFS outside the travel mode

Disabling the AFS and shooting
- LDS in the "low beam"
- This is a legal requirement for AFS system

AFS - Adaptive headlights

Tourist / Travel arrangements

- designed for drivers who are going to a country with **opposite** operation
- modules in the headlights tilts and rotates slightly so that it does not dazzle oncoming drivers
- i AFS shooting modes are disabled
- in the error memory RJ AFS (diag. address 55) report - 'function is switched on left / right mode active "
- When the ignition light flashes 10s shooting lights on the unit combi + reports activated cruise
- activation by MIB (Lights -> Cruise - operation right / left operation) or using the diagnostic SW (adaptation)

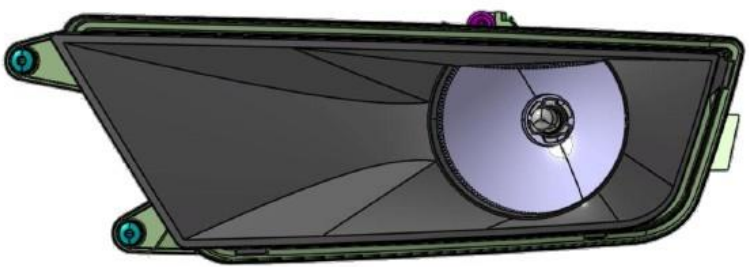


Cornering lights – corner light

Corner

- static nenatáčecí light - Lighting angle (+30 ° to -60 °)
- fog-corner is a bi-functional headlamp: 1) function fog lights
  2) Function Corner
- 1 used bulbs ➔ fog lamp and corner can not be activated simultaneously

is progressively switching on and switching off the lamp when the function corner controlled by RJ BCM



Activation conditions

Vehicle:

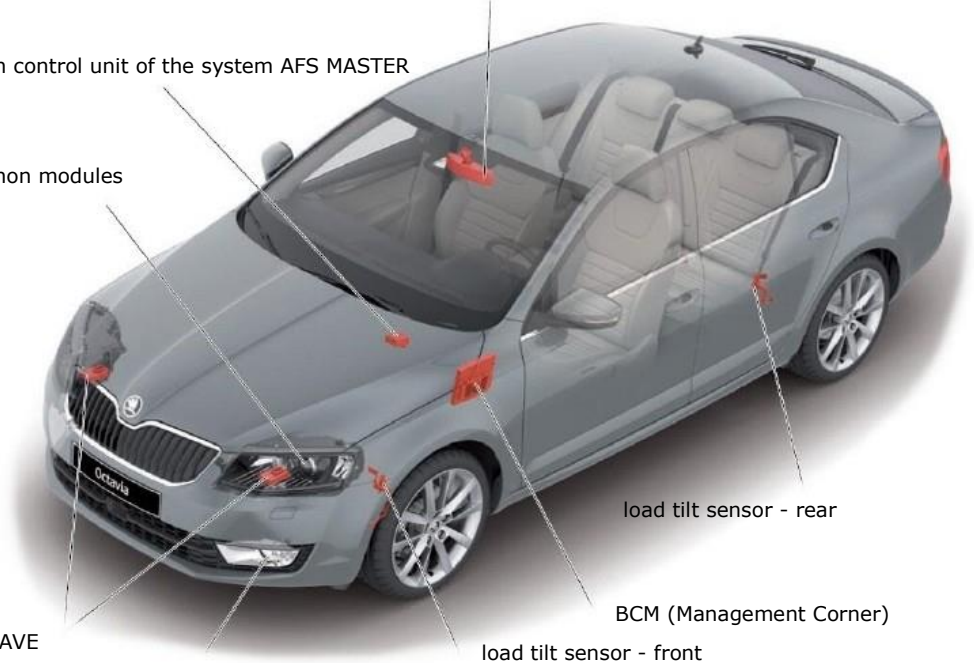
- is started and runs at a maximum speed 40 km / h
- the light on low beam
- fog lights are turned on (LDS)

Corner comes on when the

- steering angle more than the activation angle
- or closing the turn signal in the desired direction
- or **inclusion of reverse gear** (Both corner lights simultaneously)

AFS - Adaptive headlights

The architecture of AFS



DRIVE MODE

NORMAL

SPORT

ECO

INDIVIDUAL

Infotainment - information and multimedia system

Bluetooth

Infotainment

Contents:

- **MIB** - Modular information system

Equipment:

- ENTRY
- STANDARD
- HIGH

- Amplifier
- Antennas
- MOST
- Handsfree
- Map data
- Phone box

MIB - (Modular Infotainment Baukasten)

Infotainment or multimedia information system.

Controls and displays panel

On-board computer

Mobile devices (Phone, iPod, MP3, etc.)

Characteristics of options (Škoda)

Entry	Standard	High
No Touch	**5.8 "Touch**	**8 "Touch**
		
MP3, SD-card, USB, Car Menu, WMA, CD, AUX-IN, FM Div, Phone	2D navigation USB, proximity sensors, DAB, 2 SD cards JPEG viewer, iPod-support comfort telephony, Voice Control sound system	3D navigation, USB, proximity sensors, DAB, 2 SD card, JPEG viewer, iPod-support comfort telephony, Voice control, High sound system
	Entry	Standard, Entry
Radio - Basic Functions	+ Navigation	+ 3D Navigation / Video

MIB ENTRY

	Blues	Swing
		
Display	Monochrome (white letters on black background) type TFT, resolution 310 × 70px	
Media	Aux-in USB input *	Aux-in USB input * CD drive SD drive
Supported audio formats	MP3, WMA, CD-DA	
Tuner	AM / FM tuner	
Car menu	Display and setting of comfort features of the car	
Output Power	4 × 20W	
Optional Items		• Bluetooth • Phonebox

MIB STANDARD

	Bolero	Amundsen
		
		
Display	The capacitive touchscreen supporting "Multitouch" color TFT, diagonal 5.8 ", resolution 400 × 240 pixels (WQVGA) Size 127 × 76.6 mm, proximity sensor	
Inputs and Media	Aux in USB input CD drive SD slot	Aux in USB input CD drive 2 x SD slot Bluetooth audio streaming
Supported audio formats	MP3, WMA, CD-DA, AAC, OGG, FLAC	
Supported image formats	JPG, JPEG, PNG, BMP, GIF	
Tuner	AM / FM tuner	
Navigation	-	Viewing 2D and 2.5 D (bird's eye)
Wireless	-	Bluetooth
Internal memory	-	-
Car menu	Display and setting of comfort features of the car	
Output Power	4 × 20W	
Possibility to add:	▪ DAB ▪ Sound system CANTON ▪ Voice Control ▪ Apple connectivity ▪ Bluetooth	▪ DAB ▪ Sound system CANTON ▪ Voice Control ▪ Apple connectivity

MIB HIGH

	Columbus
	 
Display	The capacitive touchscreen supporting multitouch, color TFT, diagonal 8 ", 800 x 480 pixels (WVGA), size 175 x 15.4 mm proximity sensor
Inputs and media	Aux in USB input DVD Drive 2 x SD slot Bluetooth audio streaming Apple (audio, video socket MEDIA-IN) Internal memory
Supported audio formats	MP3, WMA, CD-DA, AAC, OGG, FLAC
Supported video formats	MPEG, WMV, DivX, Xvid, ...
Supported image formats	JPG, JPEG, PNG, BMP, GIF
Tuner	AM / FM
Wireless	Bluetooth
Internal memory	64 gigabytes (freely accessible to users 12 gigabytes, the rest reserved for navigation data and database Gracenotes)
Car menu	Display and setting of comfort features of the car
Output Power	4 × 20 W
Featured navigation function	2D, 2.5D "bird's eye" 3D City model selected cities, pronouncing street names maneuvers, real Intersection in transit The lack of fuel - the option to navigate to the next / select pumping station
Map data	Map data stored on the internal memory Free update for 3 years
Special Features	Media Library (Manage files in internal memory), voice control, browser images, video player, database Gracenotes
Optional Items	• Dual DAB tuner • Sound CANTON system • Recognition traffic signs

Overview of navigation features MIB

MIB Amundsen

- Color display **5.8 "**
- Distinction **400x240**
- Capacitive TFT screen
- Proximity sensors
- **CD** mechanics, 2xSD
- Navigation 2D or **2.5 D**
- TMC traffic reports

Expansion options:
- DAB
- MOST - Brand Sound System
- Voice control

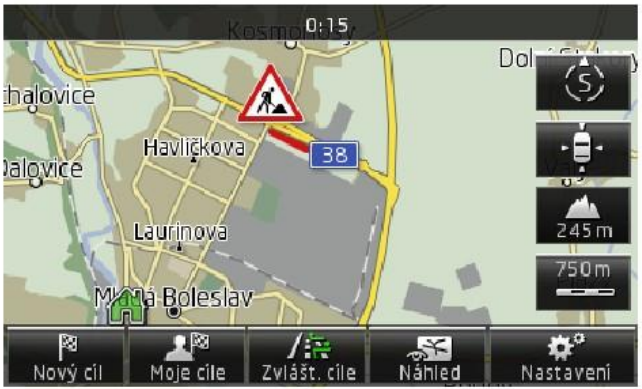
MIB Columbus

- Color display **8 "**
- Distinction **800x480**
- Capacitive TFT screen
- Proximity sensors
- **DVD** mechanics, **Audio + Video,** 2xSD
- Navigation 2D or **full 3D** function **Real city view**
  TMC traffic reports
- **JPEG Viewer**
- **Internal Memory 64 gigabytes**
- **Gracenotes**
- **Personal POI's**
- **Throw voice address entry**
-

Expansion options:
- Dual DAB Tuner
- MOST - Brand Sound System

2D map view

2D map view



MIB Amundsen

2D map view

MIB Columbus

3D map view

2.5 D display
Maps

MIB Amundsen

3D map display + Real city view

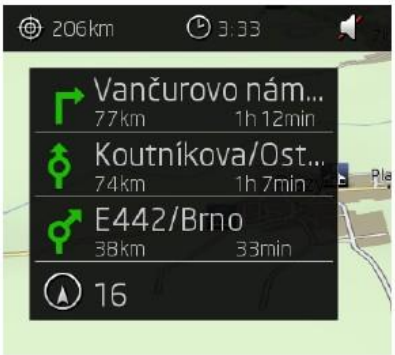
MIB Columbus

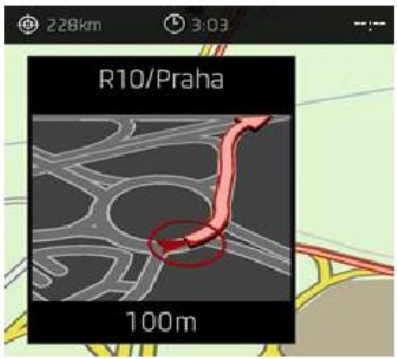
Additional window

•Additional window "Maneuver"

MIB Amundsen

MIB Columbus



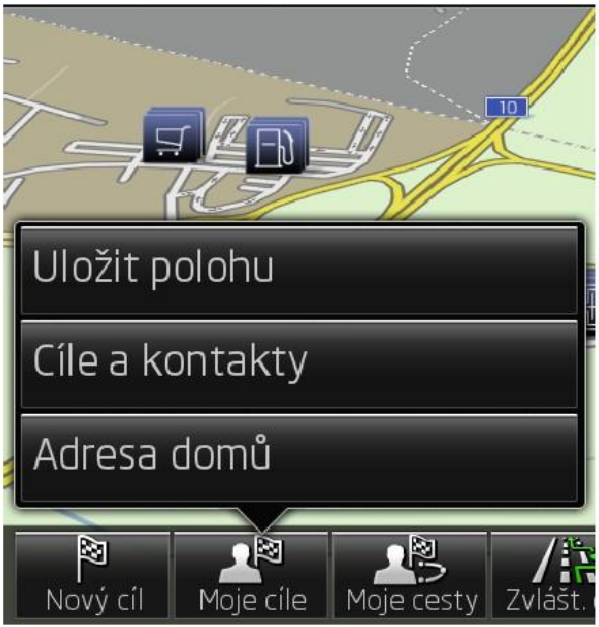


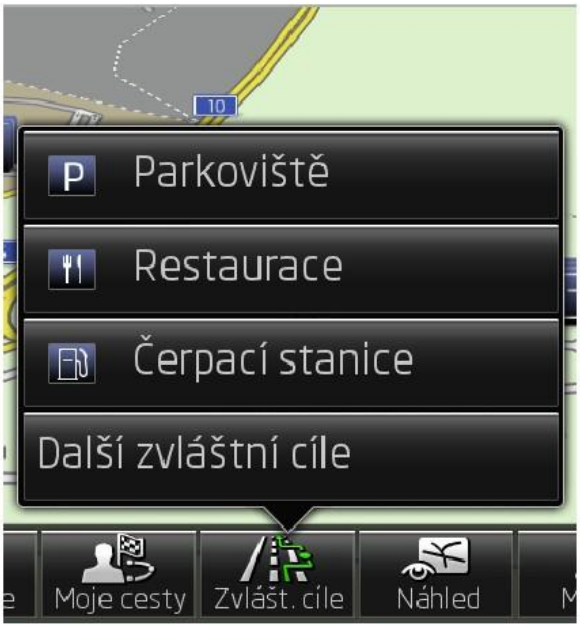
Additional window

•Additional window "road signs"

Entering goals

- Ways of entering a destination address, POI (Point Of Interest), business cards on SD card selection of maps or all of the saved route (my dates), contacts from your mobile phone



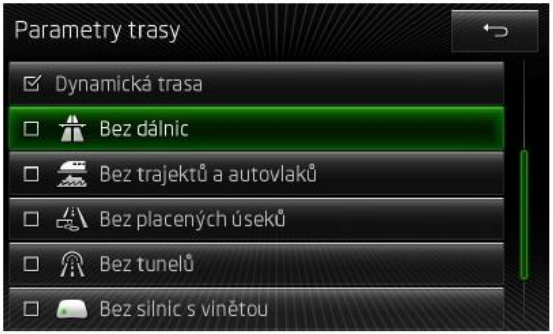


Entering a destination by parameters

•A choice of three routes: - short
- Economic
- Fast

ability to move around the map and in this context,

•Able to plan routes according to its parameters



Entering a destination by parameters

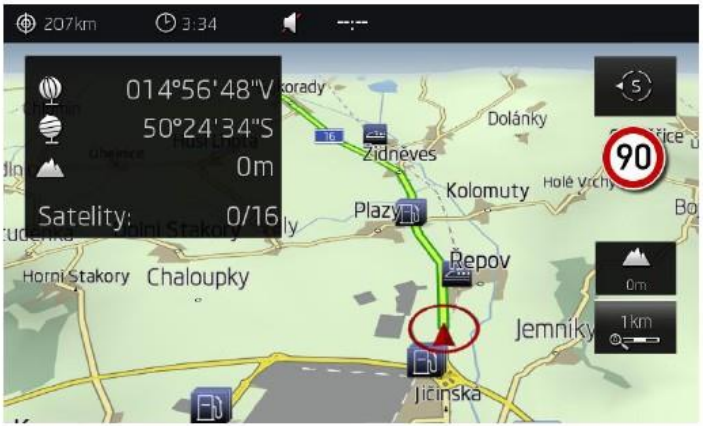
•Route planning according to the available vignettes (vignettes)

Proximity sensors

•When approaching hand in front of the display responds proximity sensor

•Enlarges the POI on the map to facilitate the selection

•Displays the control menu

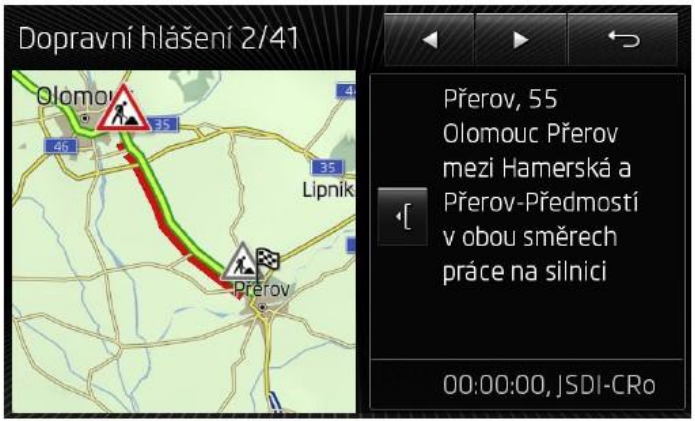


Fuelling

TMC traffic information

•Free-TMC

•Pay-TMC - paid traffic information, DE, FR, EN, IT



MAPS MIB


RADIO
MEDIA
PHONE
VOICE
NAVI
TRAFFIC
CAR
MENU
0.3 km
14:04
14:03
VW Strasse 8
VW Strasse 6
VW Mittelstrasse
Parkstrasse
63 m
100m
VW Strasse 2

The maps in MIB

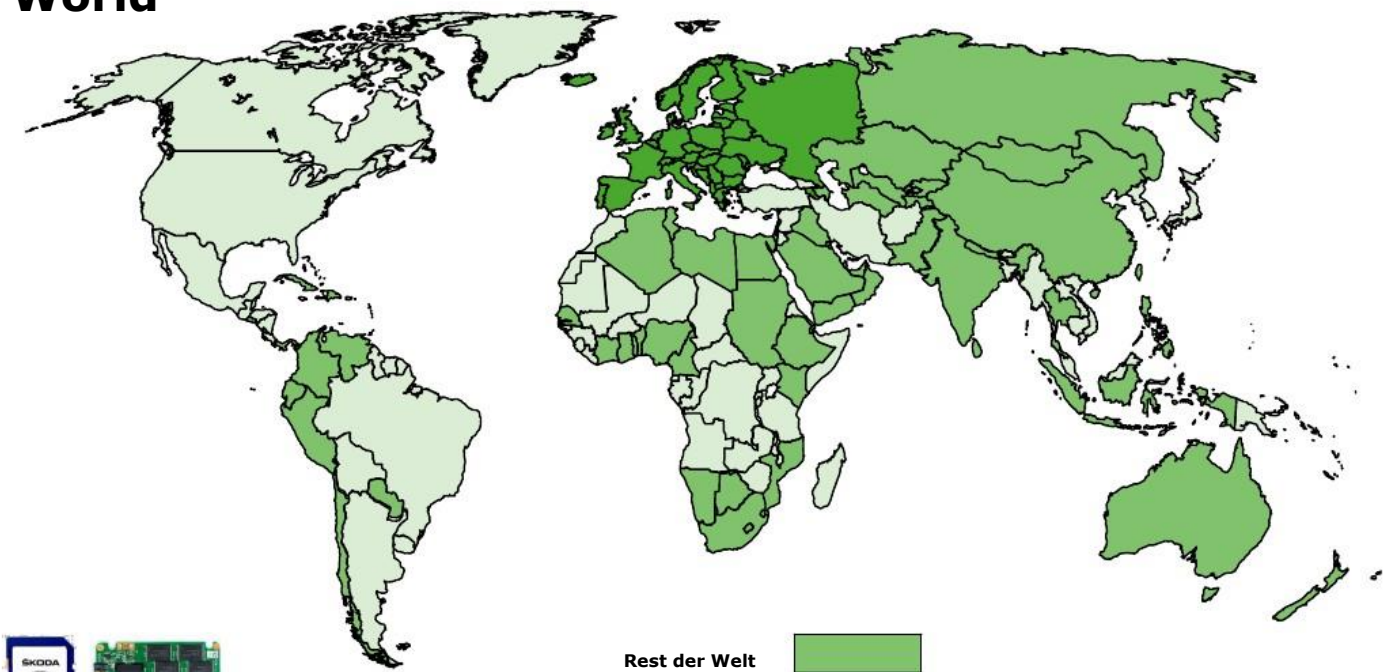
	AMUNDSEN	COLUMBUS
UNIT	AMUNDSEN	COLUMBUS
CAPACITY	SD (CID-chip) 8 gigabytes	SSD 64 gigabytes (33GBmap)
SIZE	Currently 5 gigabytes	Currently 18 gigabytes
SECURITY	SWAP	SWAP
OPTIONS	SD Europe, SD World	HIGH Europe, HIGH World






Coverage of Europe

Covering the World



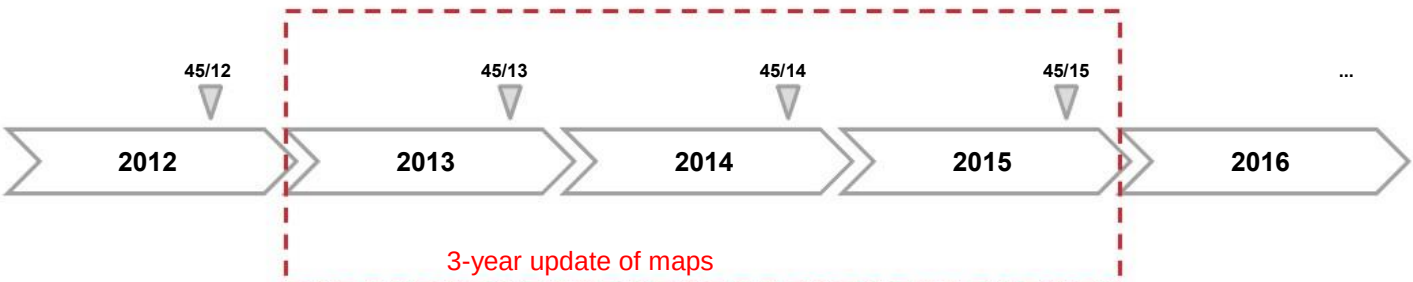
Rest der Welt

Europe

other countries

MapDate - 3-year update of maps for navigation

The basic functioning updates



MIB Standard Nav

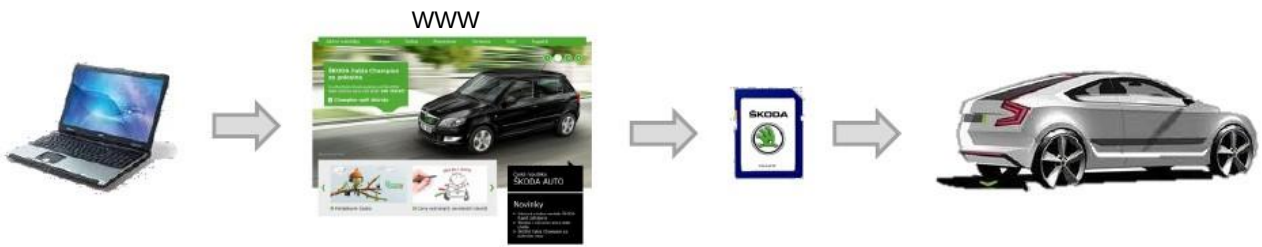
SD part nav.systému

MIB High

Data recorded on int.paměť

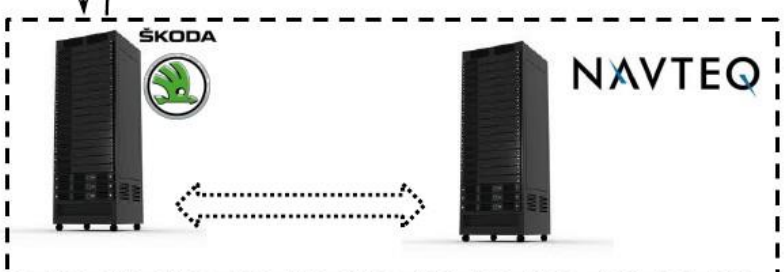
Server for map data

The concept of 45/2012



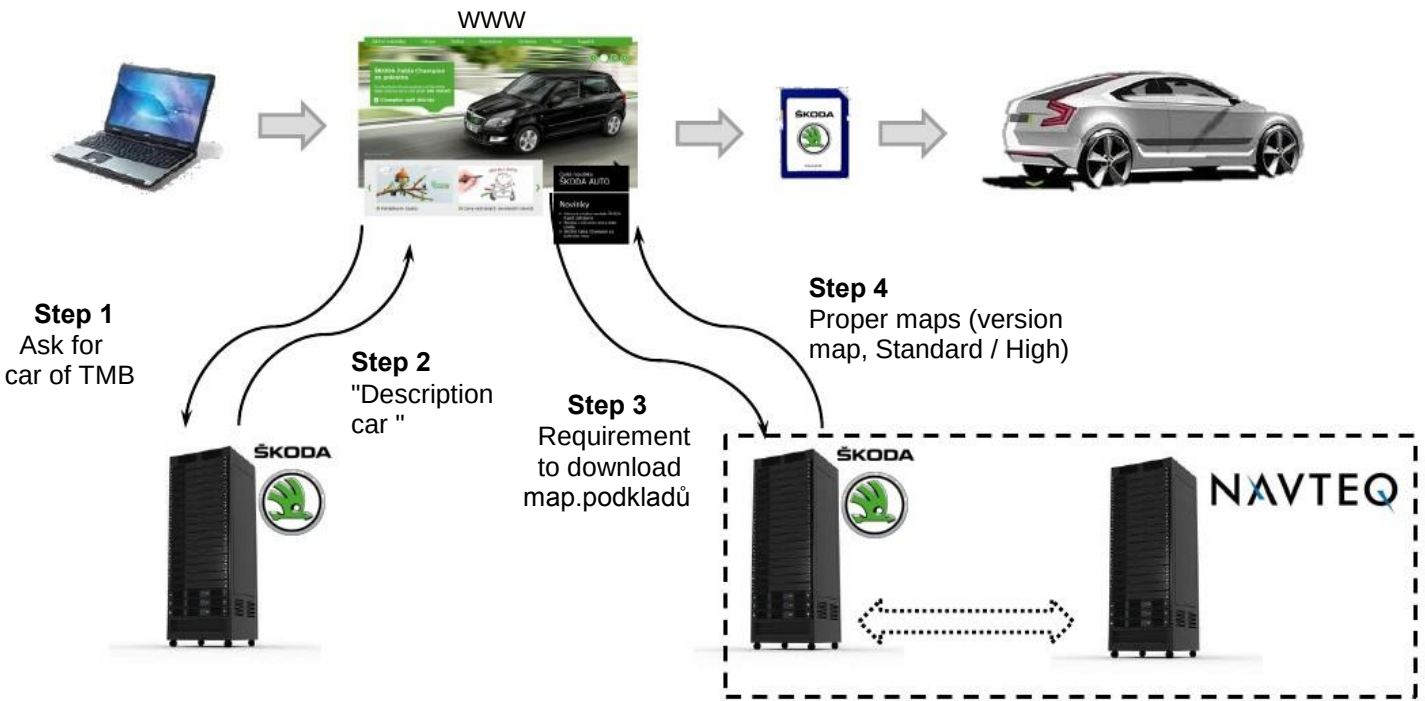
Step 1
Request for download
map.podkladů

Step 2
Map data MIB
Standard for KW45/2012



Server for map data

The concept of 22/2013



MDI - Mitsumi

Media and codecs

Connecting external memory and resources audio and video signal

- Connect audio and video source signal and the external memory:
  - Through linear AUX-IN input (standard)
  - Through the USB connector (standard)
  - Through Connector MITSUMI (MEDIA-IN)
  - Using wireless Bluetooth
  - CD / DVD
  - SD Memory Card

  The panels are located at the same point for all grades MIB - the central console on the right.

	Blues, Swing	Bolero, Amundsen	Columbus
Aux	●	●	●
USB	●	●	●
MEDIA-IN	-	○	○

●Standard
○Option
- Not

System functions

Blues, Swing	Bolero, Amundsen	Columbus
• Turn off the traction control • State of vehicle • Independent heating • Assistants • Lights • Vision • Opening / Closing • Seats • Driving data • Limit of winter tires • Service • Factory settings	• The ESC • Tires • Driver assistance • Light • Mirrors and wipers • Opening / Closing • Seats • Multi-function indicator • Service • Restore settings factory	• The ESC • Tires • Driver assistance • Parking and maneuvering Light • Mirrors and wipers • Opening / Closing • Seats • Multi-function indicator • Time and date • Units • Service • Factory settings •

System functions

Protection against Abuse

- Protection against misuse and theft device is designed both the hardware and software.
  The software solution is fairly complicated system of protection that is always connected to a specific car.
  If the protection is activated, ie. MIB is eg stopping in another vehicle, will activate
- Protection against abuse and to indicate the message "Protection components are active."

The protection component is based on several levels of security:

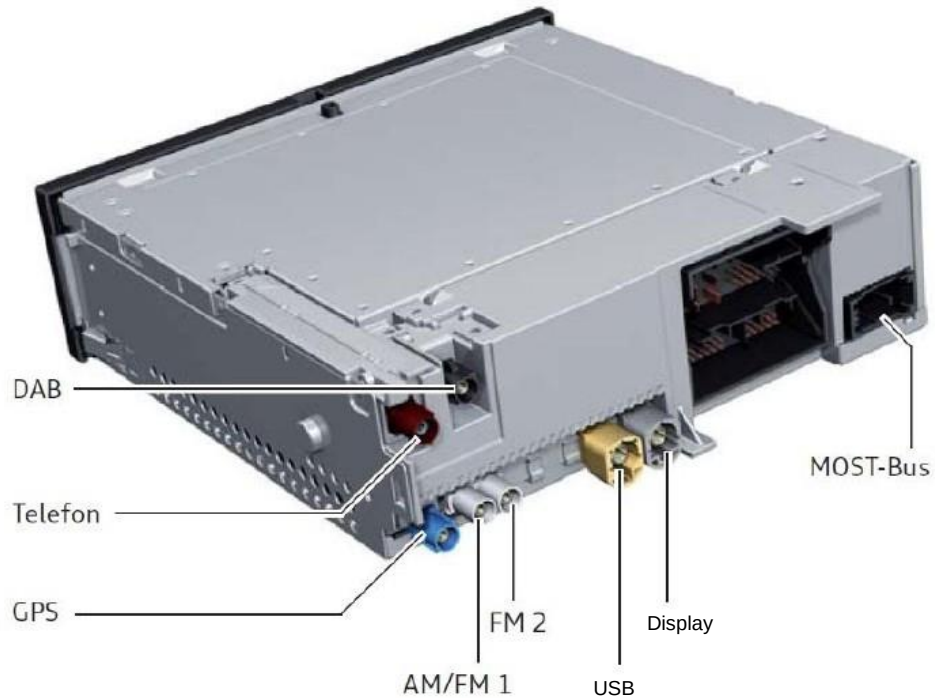
1st Every machine is automatically assigned a unique code that is secret and can not be from the device any way to read or view.

Authorization second device in the car automatically without the driver having to enter any number combination. Authentication takes place only after the ignition, but subsequently intervals.

3rd To enable the radio, after replacing, or stop MIB in another vehicle, it is necessary visit an authorized service center.

Models Bolero, Amundsen and Columbus are also protected by physically separating the central display and its own central unit multimedia system.

Antennas Columbus



Tuners and antennas

DAB

- DAB is a digital radio technology for broadcast radio stations.
- Features transmission and reception of DAB, compared with a frequency-modulated FM signal, are amended Significant improvements as provided in the data information, and in listening quality.

- DAB signal is much less prone to interference and interaction between stations. Each radio signal is transmitted in the multiplexes that contain more radio data streams.

Traffic

DAB radio automatically tunes all available channels - multiplexes - and lists, which means for users to facilitate comfortable handling.

- DAB may contain additional data information, the equivalent RDS, which is expanded as the pictures or offline website.
- A device with a DAB tuner can then use the function Seemless switch between DAB / FM source signal without affecting the playback sound. Electronics and automatically selects the most appropriate source signal without the need for user intervention.

Tuners and antennas

- Apparatus according to individual MIB are equipped with multiple versions tunerovým solution to radio reception. Two or more
tuners for broadcast band provides better reception and continuous tuning between stations.

- Number of tuners for each MIB:

Tuner	Blues, Swing	Bolero	Amundsen	Columbus
AM	1	1	1	2
FM	2	2	3	3
DAB *	0	1	1	2

* Option

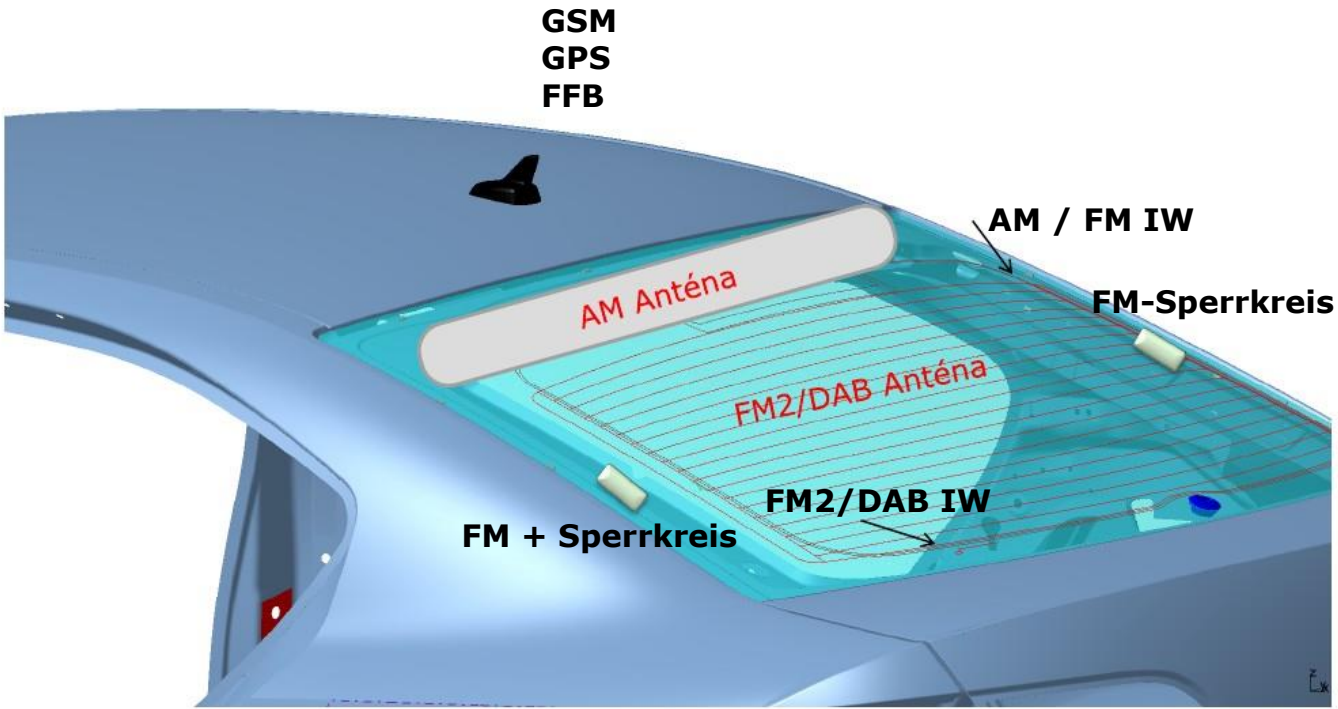
Tuners and antennas

- **Antennas**
- Except antennas for GPS, GSM and heater are in the Octavia all other antenna (AM / FM / DAB) integrated in the glass tailgate tailgate. If the car is not features a rooftop antenna design is not disturbed imitation roof antenna or cover mounting hole.
- Outside the preparation of radio in the car are always two FM antennas to eliminate disturbing manifestations
- Income and intelligent creation station list.

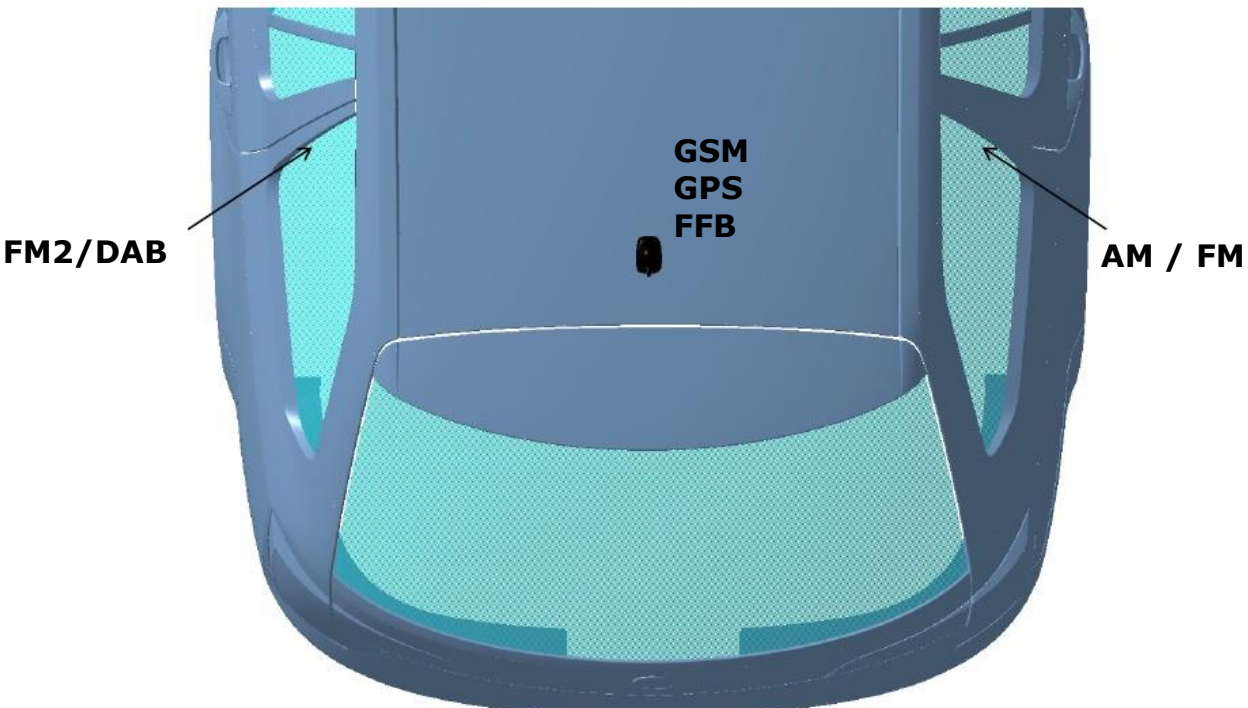
Antenna	Location
AM	The window in the tailgate
FM	
FM2	
DAB	
GPS	The rear part of the roof
Phone box	
Independent heating	

Antenna for GPS, GSM, FFB - This antenna is first addressed with a minimum height of the rubber seal.

Skoda Octavia III

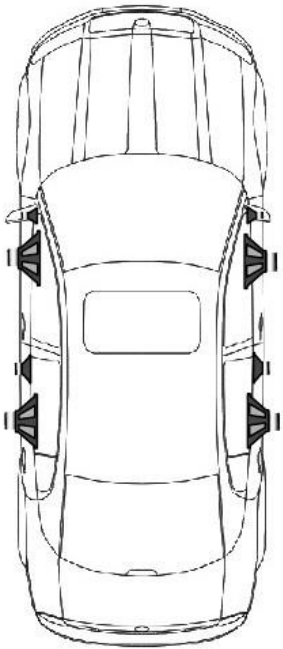


Skoda Octavia III COMBI



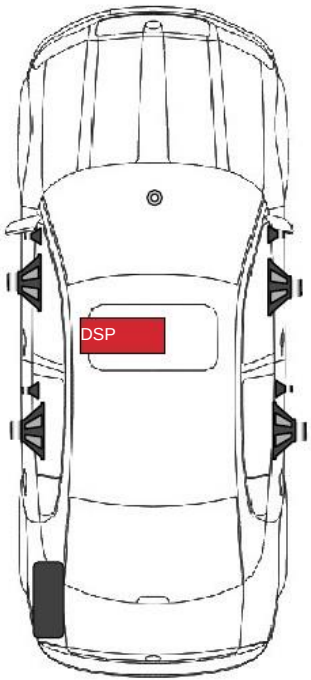
Sound and DSP

4 speakers - basic equipment
8 speakers - surcharge

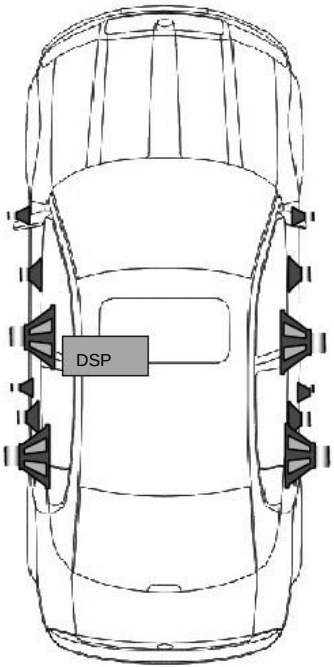


All neodymium

CANTON Sound System
8 speakers + central +
+ external subwoofer amplifier



Soundsystem
Skoda Octavia II



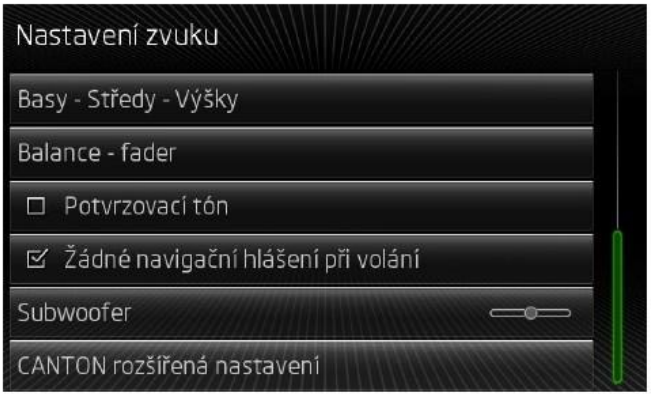
everything except height.
ferrite

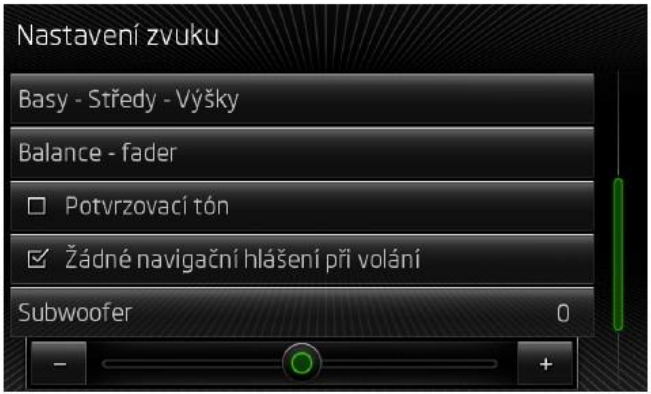
Sound car

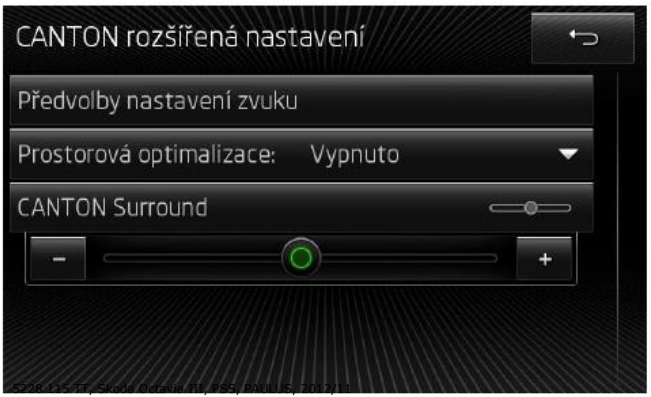
- **Sound system** CANTON
- 570W, 10 channels
- Sound system mediating excellent music and spoken word is available in combination with MIB Bolero, Amundsen and Columbus.
- This advanced sound system developed by ŠKODA in cooperation with the renowned German company CANTON Which manufactures both domestic and studio HiFi systems of the highest quality. Contribution cooperation CANTON consisted mainly in system specification and further tuning and sound settings tailored for the interior of the Octavia third generation.
- **Overview of the type and location of the speaker Sound System** CANTON
- The whole set includes 8 speakers in the doors, center speaker, subwoofer and external amplifier.

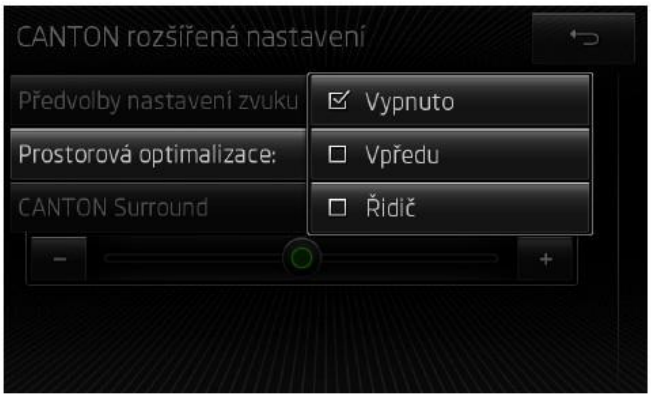
	High-rise	Central	Midrange	Subwoofer
The front door Speaker diameter Output Power Frequency Range	Ø 25 mm 25 W 2 kHz - 20 kHz	-	Ø 168 mm 80 watts 60 Hz - 4 kHz	-
Tailgate Speaker diameter Output Power Frequency Range	Ø 25 mm 25 W 2 kHz - 20 kHz	-	Ø 168 mm 50 W 60 Hz - 5 kHz	-
Dashboard Speaker diameter Output Power Frequency Range	-	Ø 90 mm 25 W 250 Hz -10 kHz	-	-
Luggage space Speaker diameter Output Power Frequency Range	-	-	-	The volume of 15 l, Ø 168 mm 2x100 W 30 Hz -100 Hz

MIB Canton


Nastavení zvuku
Basy - Středy - Výšky
Balance - fader
Potvrzovací tón
Žádné navigační hlášení při volání
Subwoofer
CANTON rozšířená nastavení


Nastavení zvuku
Basy - Středy - Výšky
Balance - fader
Potvrzovací tón
Žádné navigační hlášení při volání
Subwoofer
0
–
+


CANTON rozšířená nastavení
Předvolby nastavení zvuku
Prostorová optimalizace:
Vypnuto
CANTON Surround
–
+


CANTON rozšířená nastavení
Předvolby nastavení zvuku
Prostorová optimalizace:
CANTON Surround
Vypnuto
Vpředu
Řidič
–
+

Bluetooth protocols used in the MIB

Audiostreaming

Audio / Video Remote Control Profile (AVRCP)
Controlling of audiostream (Play, Pause, Skip Forward / Backward, ID3 tags)

Advanced Audio Distribution Profile (A2DP)
Transferring of audio stream

Phonebook download (PBAP, SyncML, AT-commands)

Hands-Free Profile (HFP)
Handling of calls (Incoming, Outgoing, Accepting, Rejecting, Subscriber info, 3-way calls, ...)

Lower layer
(Pairing - Legacy / **Secure Simple Pairing (SSP)** Connection ...)

Bluetooth

MIB

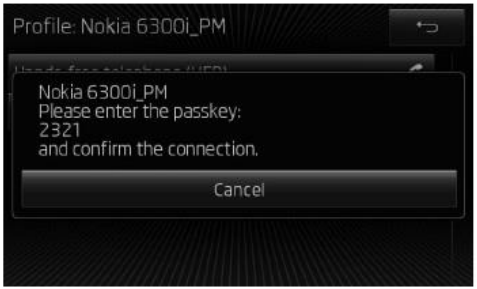
Bluetooth

New - Add a photo to a contact

Pair with a phone-system used on MIB/RG3

› **Legacy pairing (LP)** - Used for older phones

MIB

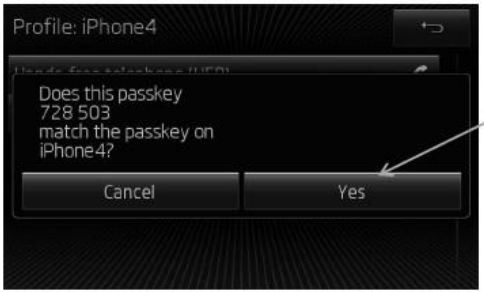


4-digits **PIN must be enter**

Cell phone

› **Secure Simple Pairing (SSP)** - Used newer phones

MIB

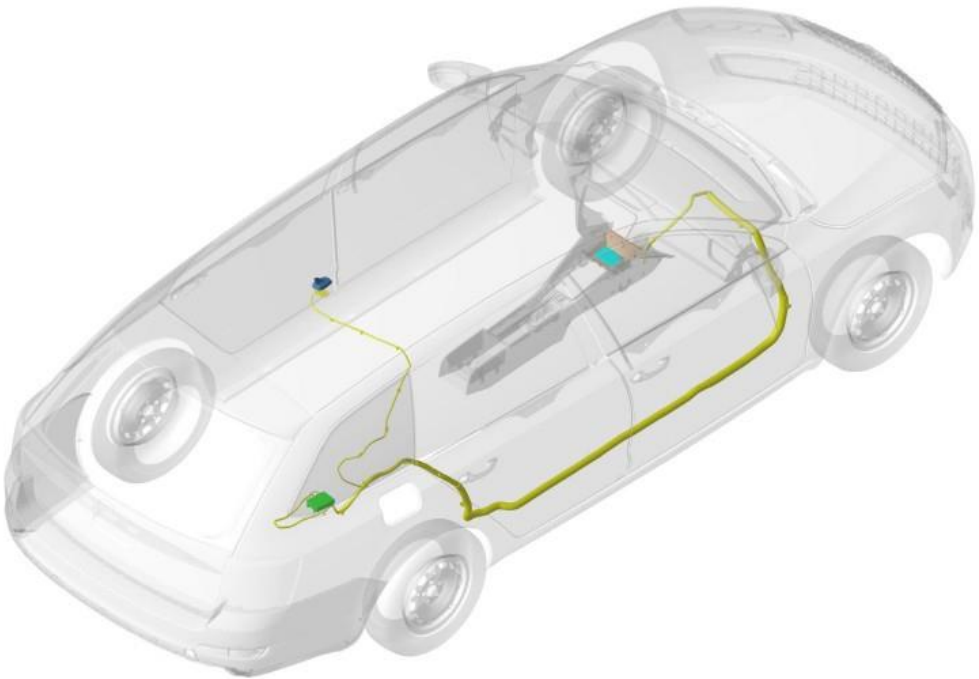


6-digits **PIN only confirms**

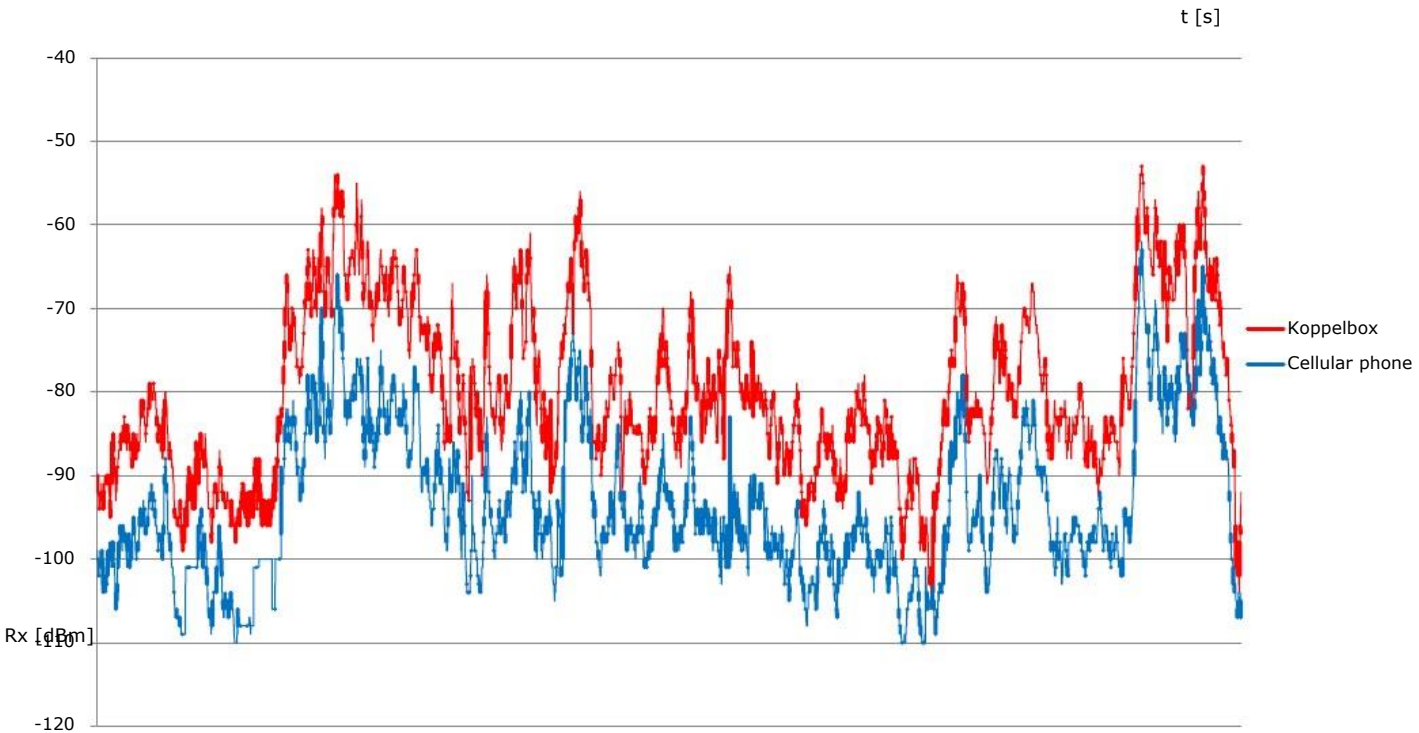
Cell phone

Installation Koppelboxu the Octavia Combi

Installation Koppelboxu the Octavia Combi



Field measurement GSM network 900/1800 MHz

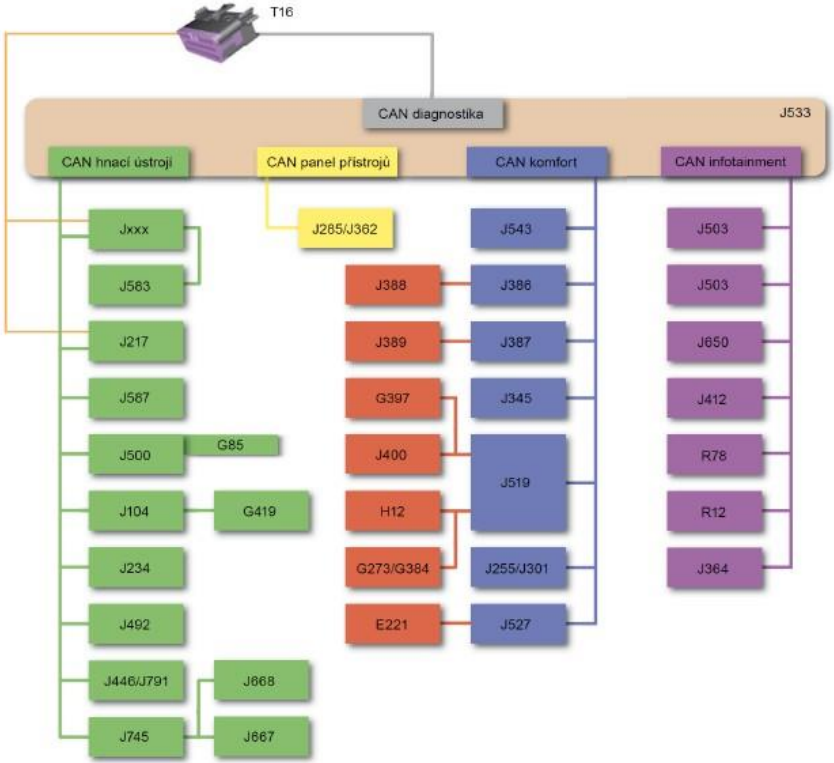


CAN-Bus

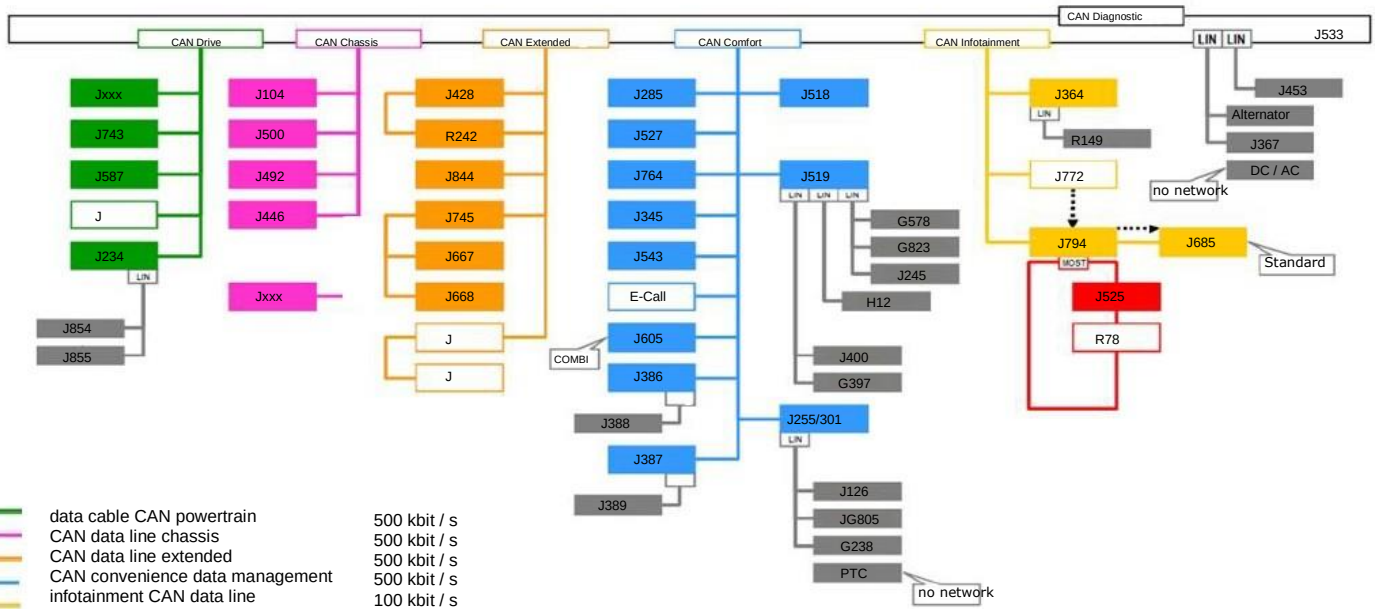
Contents:

- Comparison of the data bus Octavia Octavia II and III
- Installation of units in vehicles
- Overview and description of the CAN-Bus
- Overview and description of the LIN-Bus
- Overview of Bus MOST

CAN-Bus Škoda Octavia II

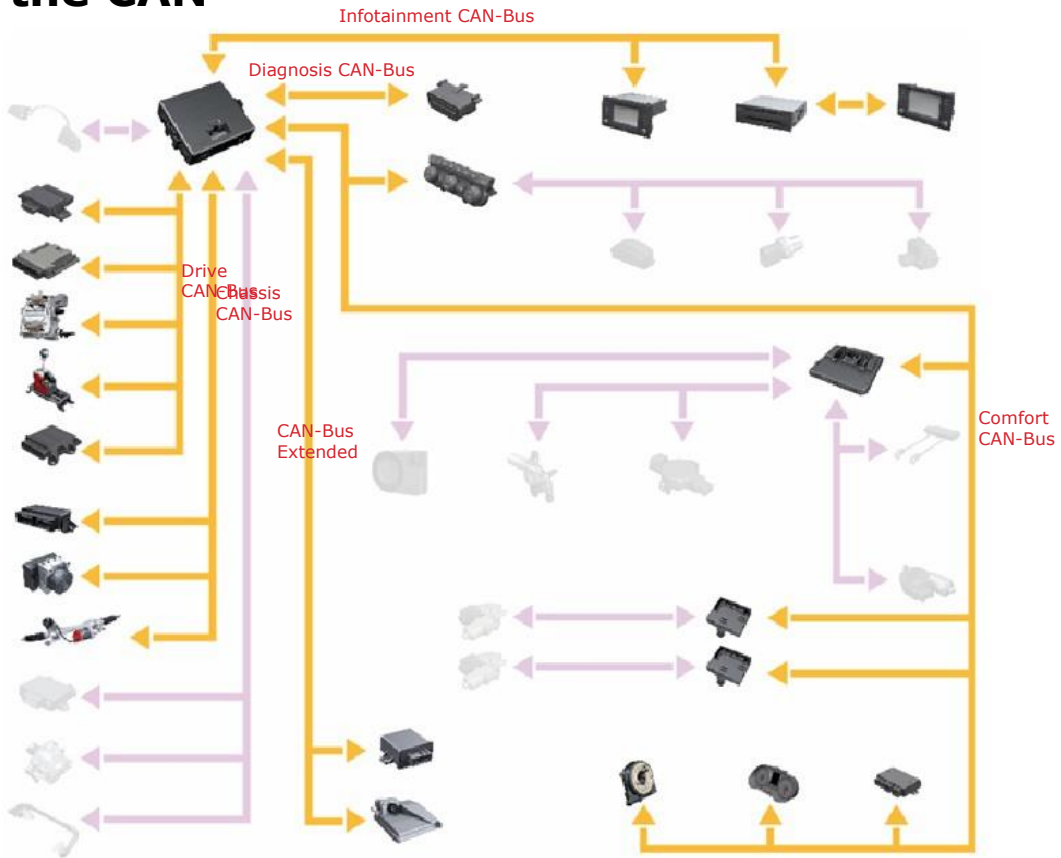


CAN-Bus Škoda Octavia III

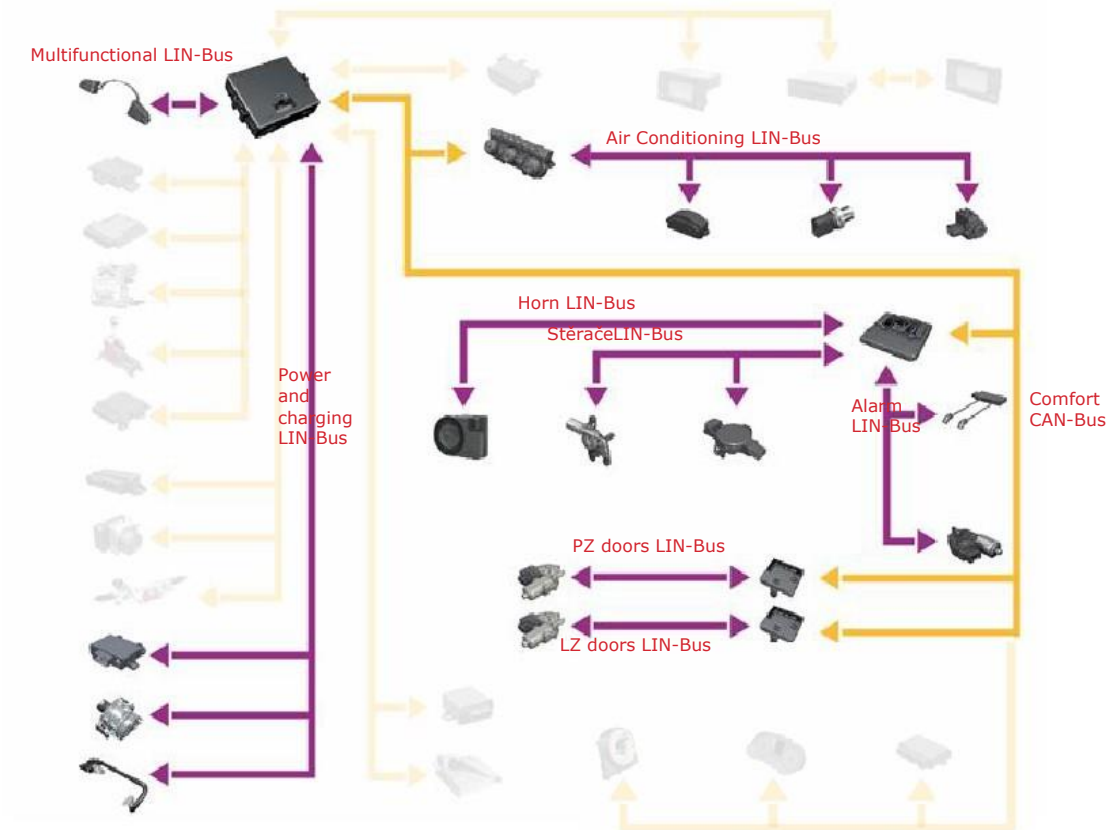


data cable CAN powertrain	500 kbit / s
CAN data line chassis	500 kbit / s
CAN data line extended	500 kbit / s
CAN convenience data management	500 kbit / s
infotainment CAN data line	100 kbit / s
MOST data management	21.2 Mbit / s
Data management LIN	19.2 kbit / s
Diagnostic CAN	500 kbit / s

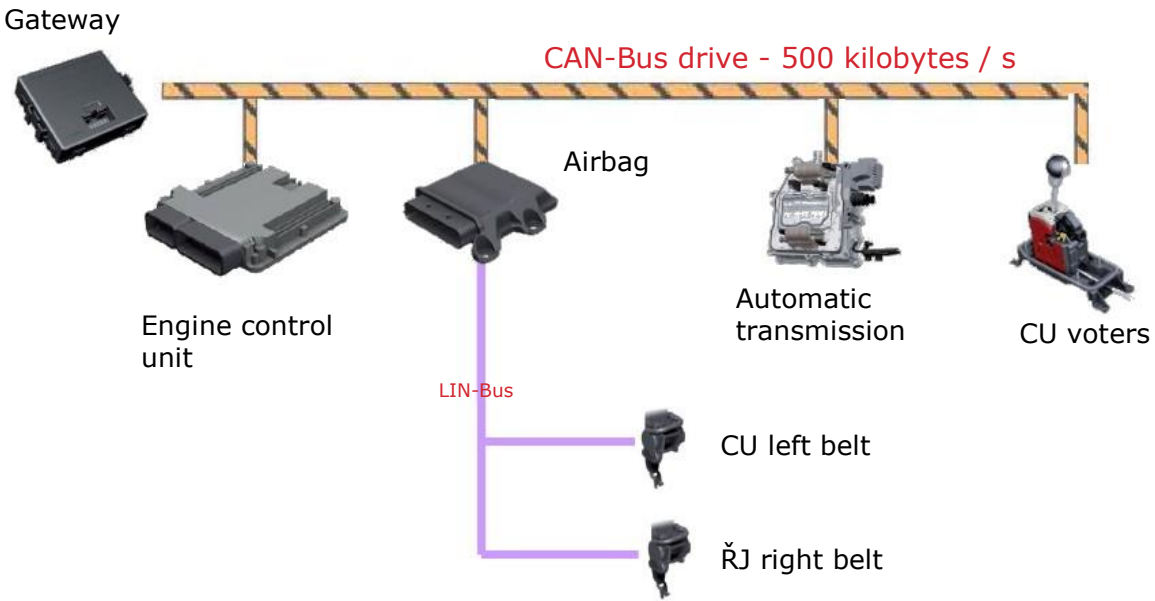
Connecting the CAN-Bus



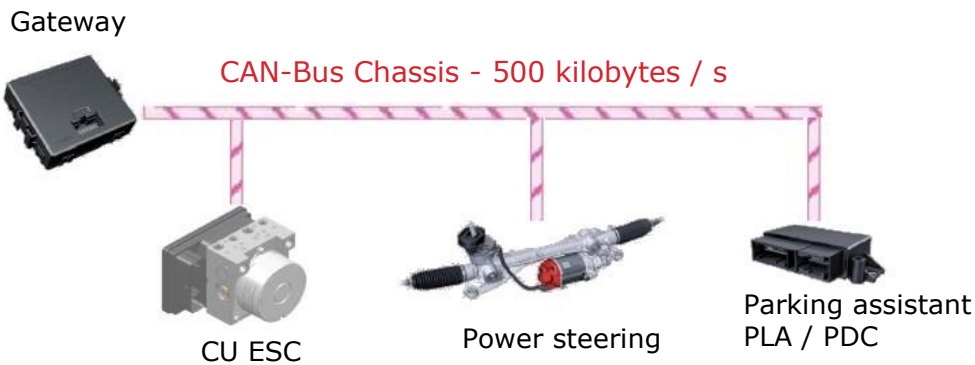
Lin-Bus


Multifunctional LIN-Bus
Air Conditioning LIN-Bus
Horn LIN-Bus
SteraceLIN-Bus
Power and charging LIN-Bus
Alarm LIN-Bus
Comfort CAN-Bus
PZ doors LIN-Bus
LZ doors LIN-Bus

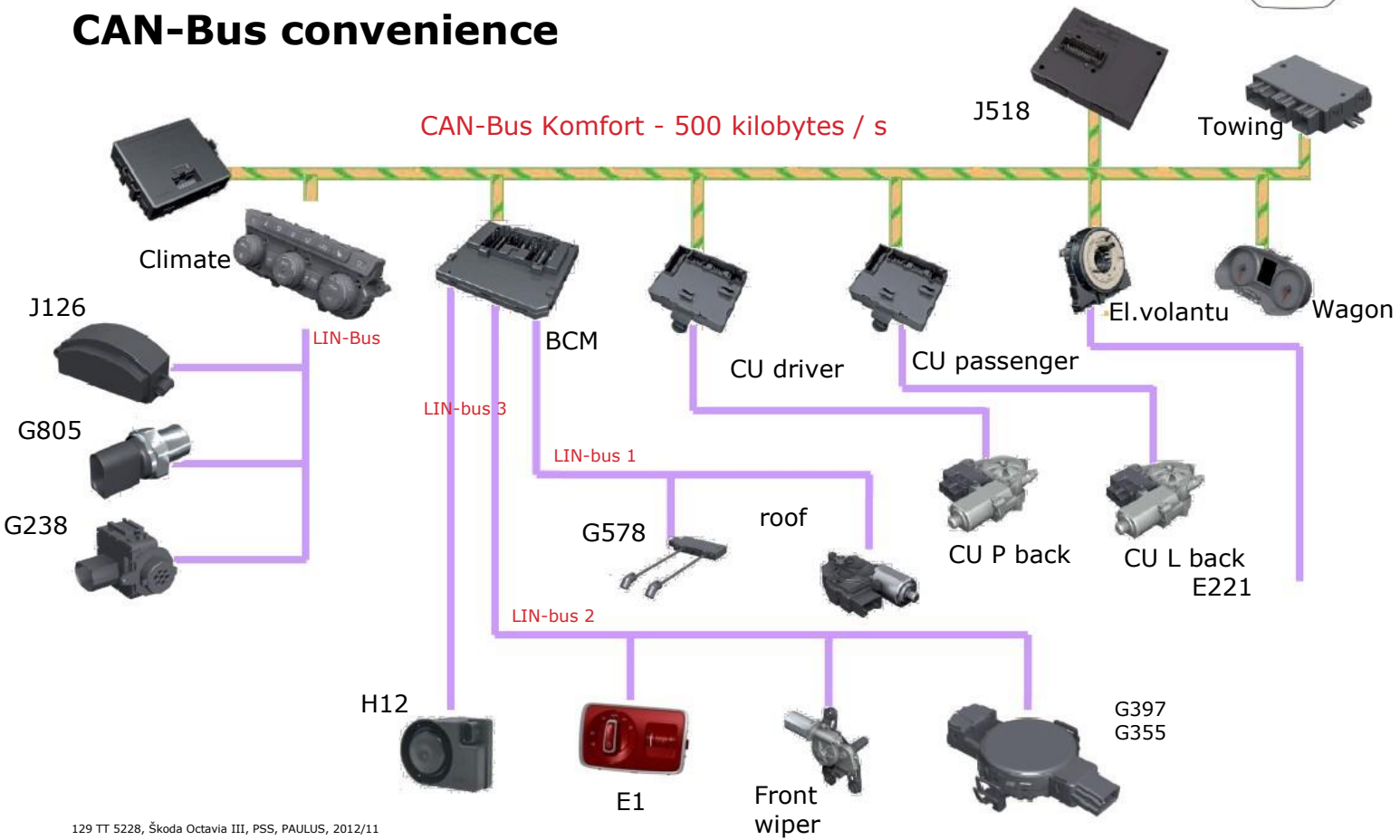
CAN-Bus drive



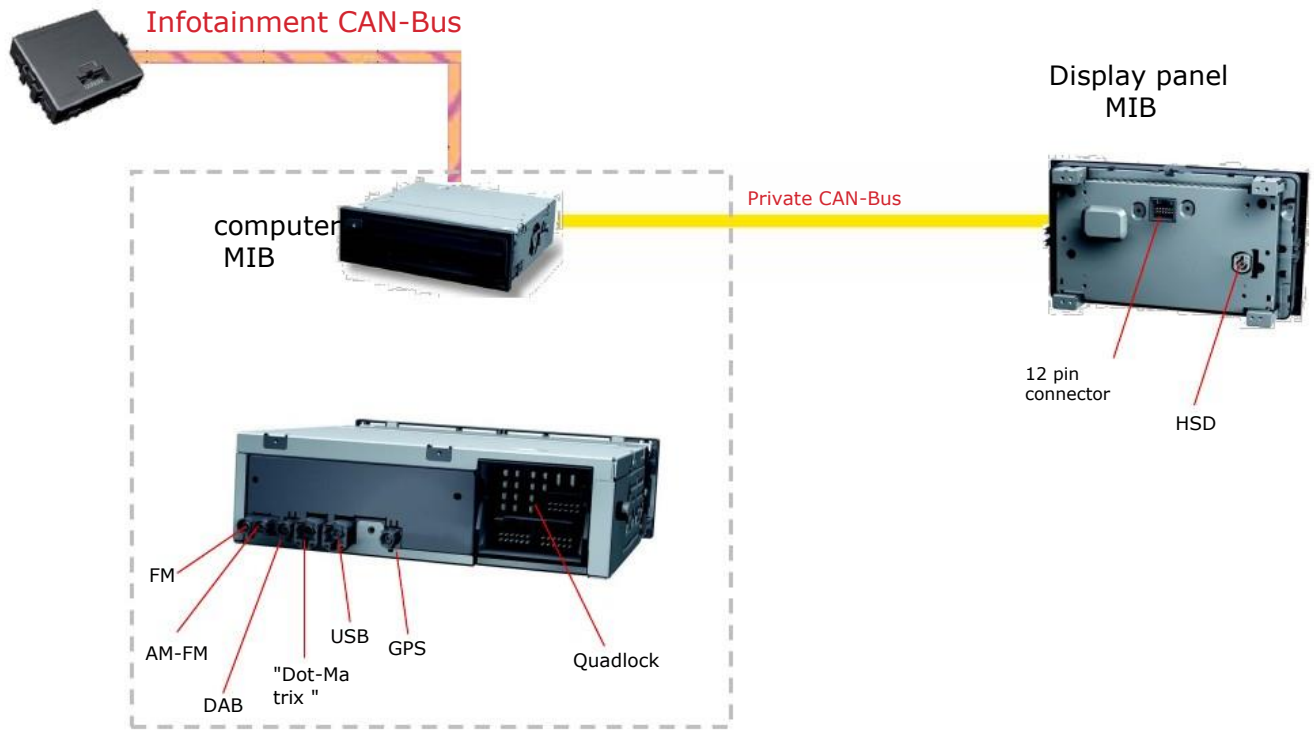
CAN-Bus chassis



CAN-Bus convenience

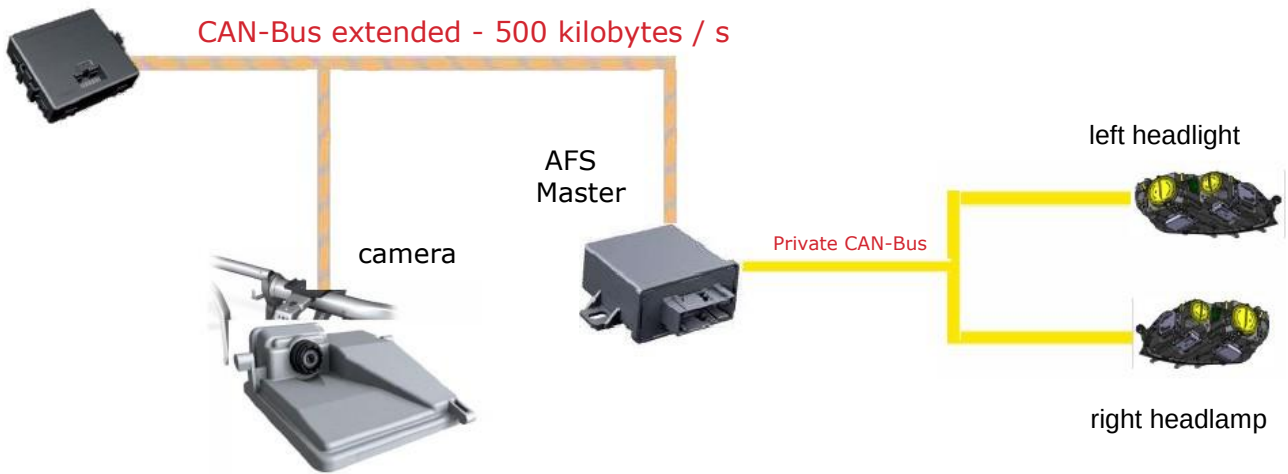


Infotainment CAN-Bus

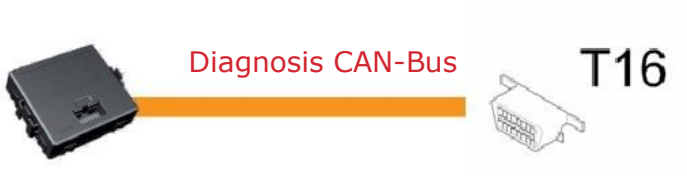


Infotainment CAN-Bus

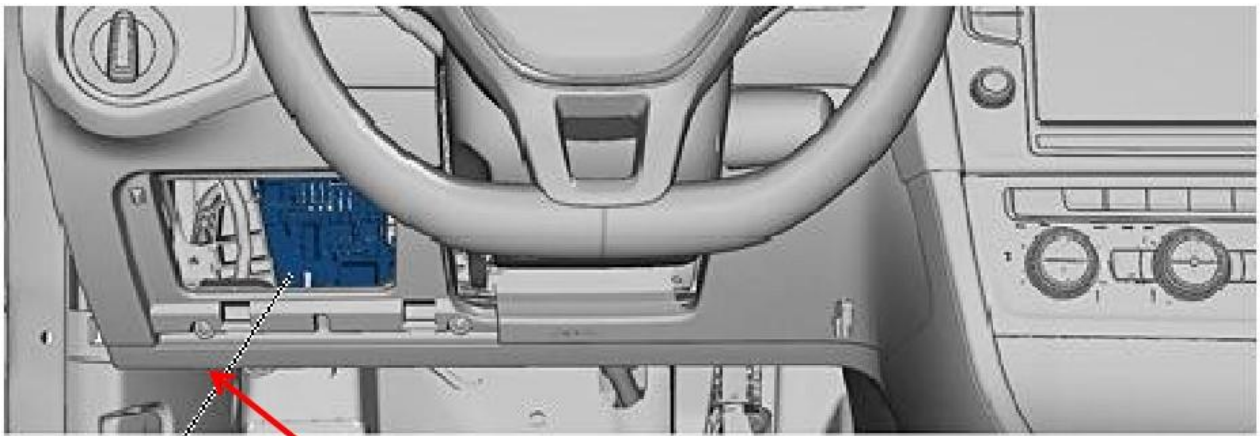
CAN-Bus Extended



Diagnostic CAN-Bus

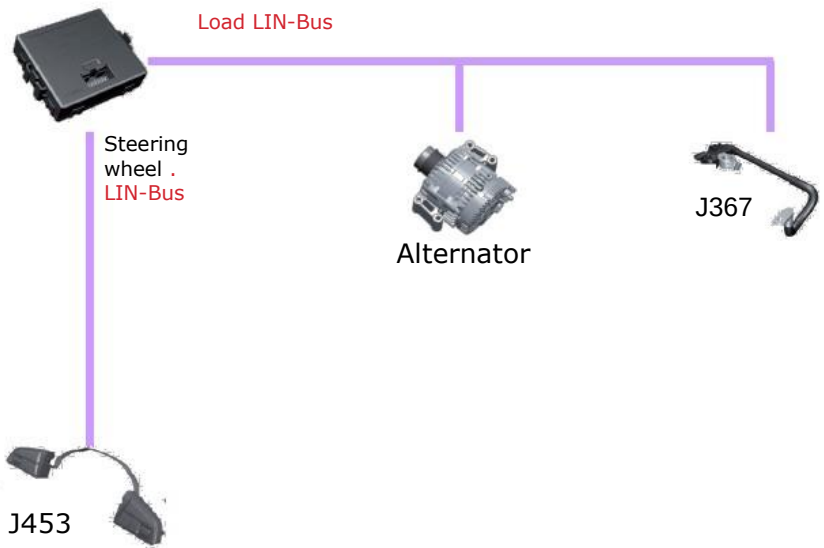


Diagnostic socket



under the dash on the left

Start-Stop system



MOST

MOST
Media Oriented Systems Transport

Meaning

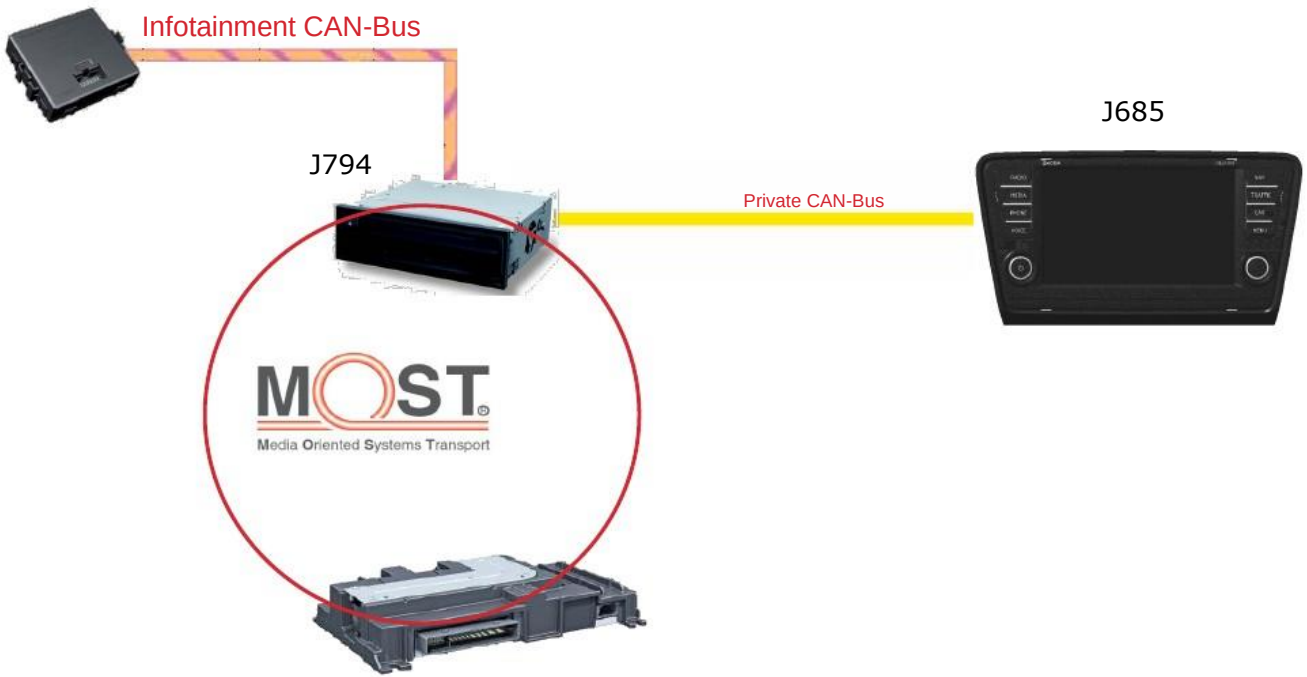
MOST® COOPERATION

Media Oriented Systems Trans

MOST - The reasons for

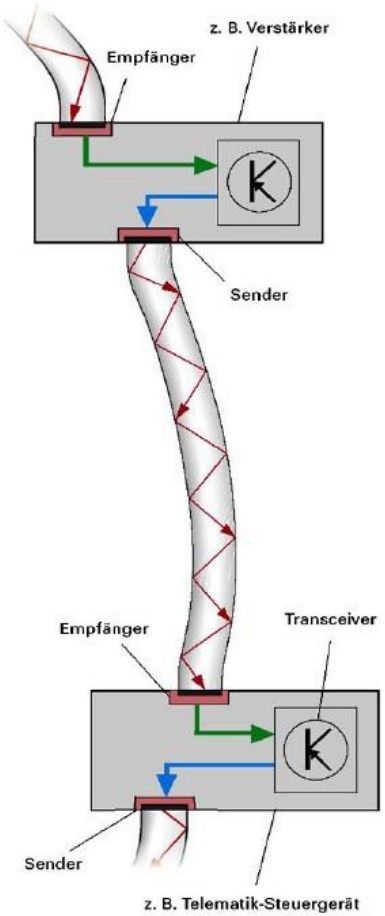
- "Relatively" low cost for high speed data transfer (using LEDs and artificial materials - fiber optic lines LWL)
- Available-high data transfer rate
- Minimization of spurious emissions (EMC) using optical fibers instead of wires (Antennas)
- The transmitted signal is resistant to electromagnetic radiation
- Better transmission quality / noise suppression digitizing
- Weight reduction, Smaller wires in the wiring harness

MOST

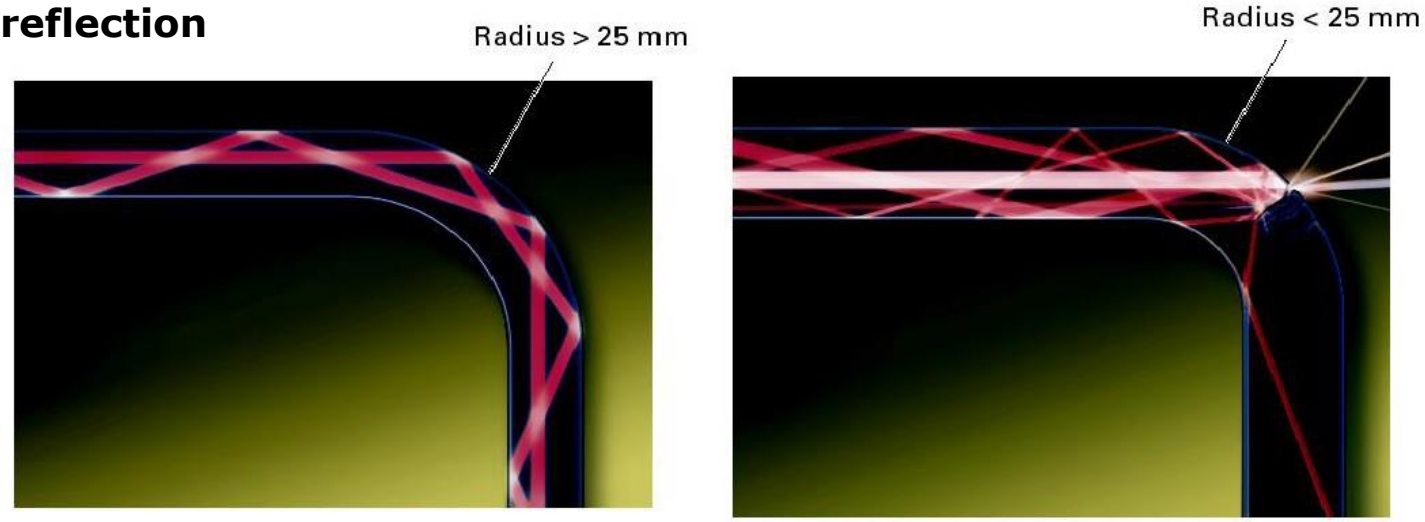

Infotainment CAN-Bus
J794
J685
Private CAN-Bus
MOST
Media Oriented Systems Transport

Optical cable (LWL)

- Light waves travel in a straight line
- LWL can be mounted easily damaged
- LWL must withstand large changes temperatures

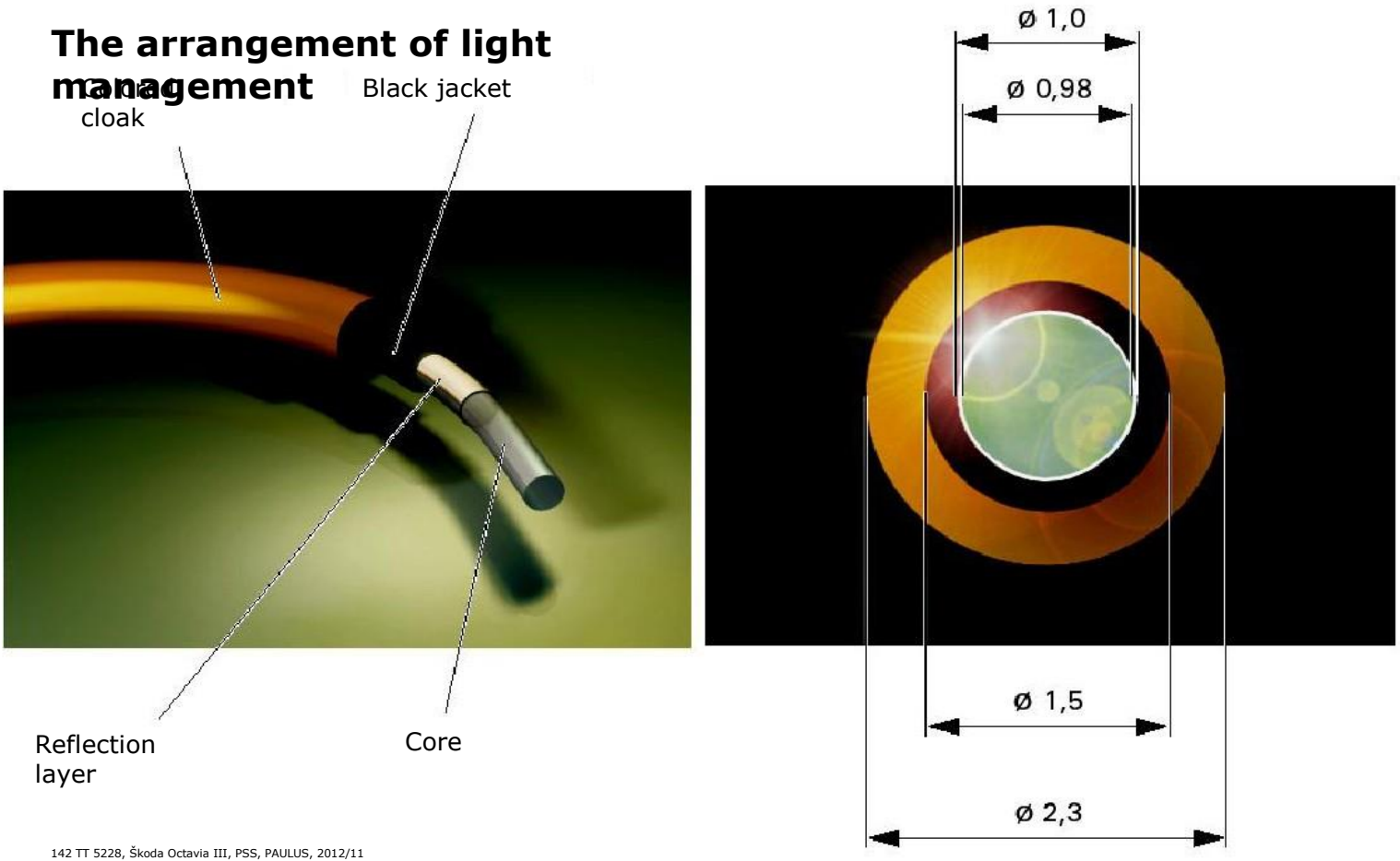


Total internal reflection



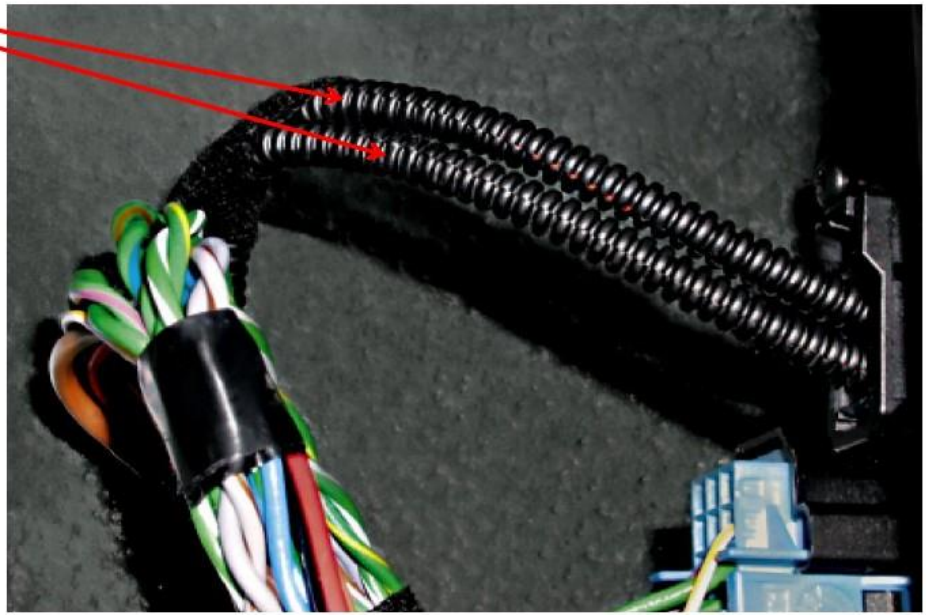
If the angle of the light beam inside the interface too sharp, it is not total reflection possible.

The arrangement of light management



Privacy optic lines against damage

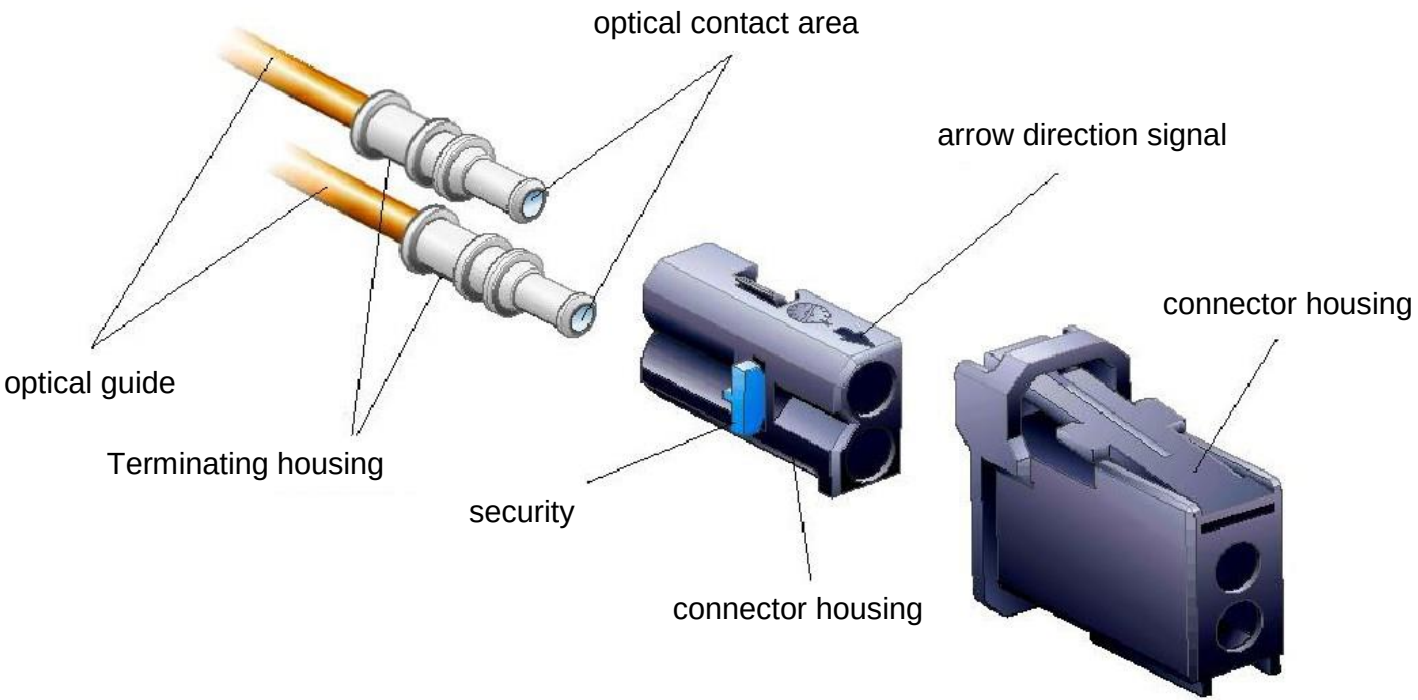
optical cables



Optical cables are protected against:

- overtemperature (Eg welding)
- pressed, the breaking
- pollution
- Scratch

Connector


optical contact area
arrow direction signal
connector housing
optical guide
Terminating housing
security
connector housing

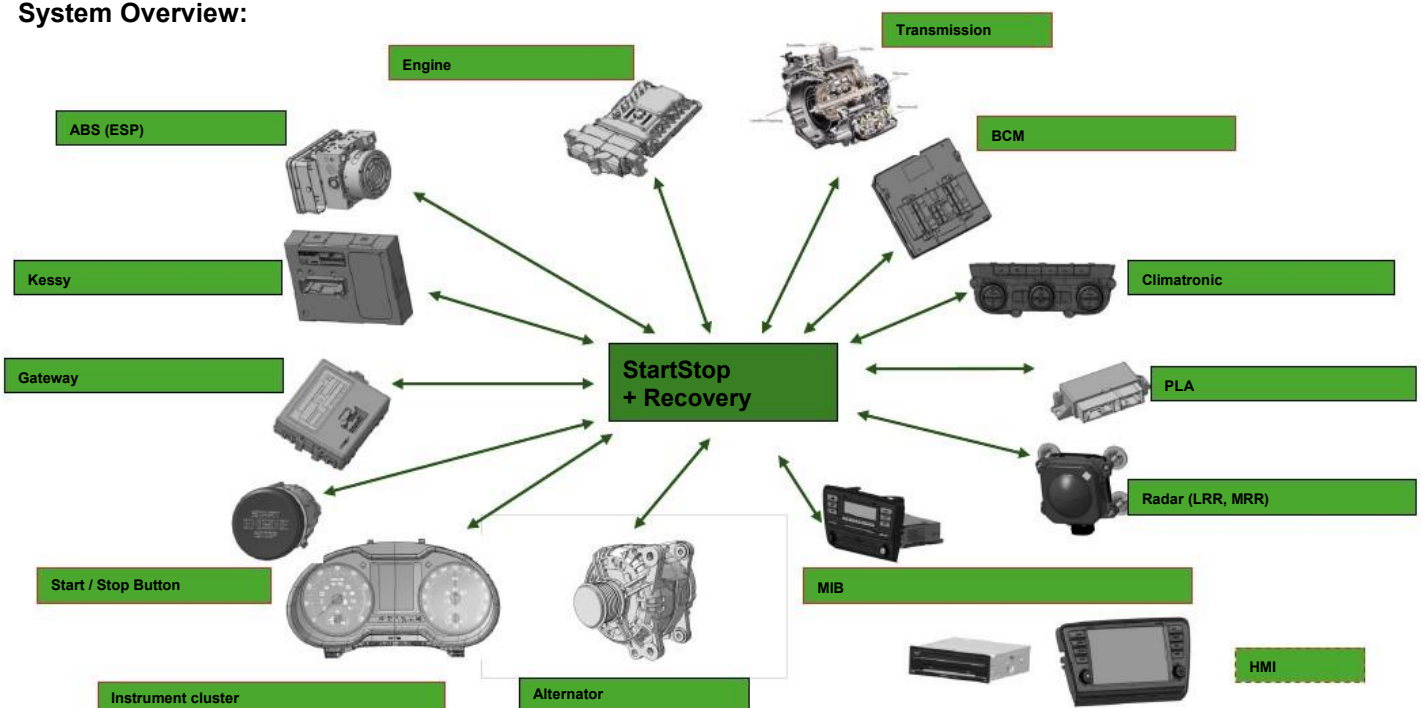
START – STOP

Contents:

- System Overview
- Automatic Transmission
- Information on MIB
- ECO mode

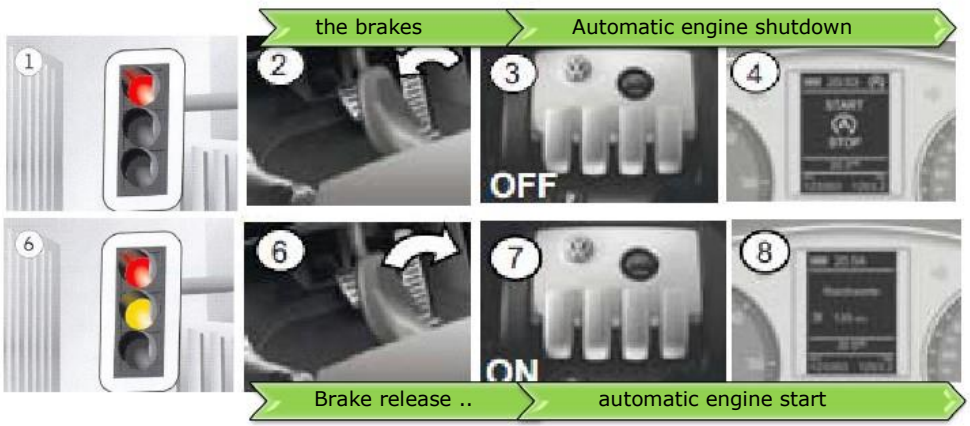
Innovation of StartStop Skoda Octavia III

System Overview:



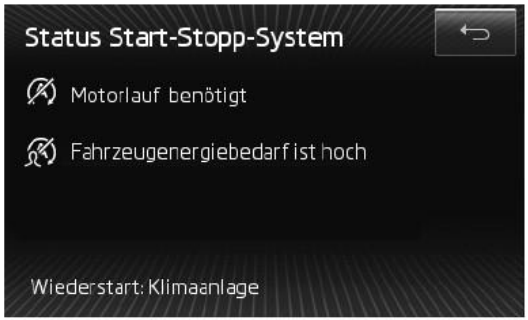
Innovation of StartStop Skoda Octavia III

Deployment StartStop for automatic transmission



Innovation of StartStop Skoda Octavia III

Advanced system information StartStop within the infotainment MIB



The condition of the driver is informed StartStop on the instrument cluster display

reasons on the part of StartStop directly by the driver affect, such as failure to achieve operating temperature

reasons that may affect the driver, eg safety belt

the reason for the last automatic engine start

Innovation of StartStop Skoda Octavia III

Specific features of StartStop

Key system StartStop

If the system is disarmed, the button indicator light.
The StartStop remains disabled only until the next
starting with the key resp.startovacím button Kessy.
If you deactivate the system during the stop, the engine automatically
starts.

Select key driving modes

If the selected driving mode MODE-Eco is not possible to manually
deactivation system StartStop.

Thank you.