

OBD11 Mods/Tweaks on 2019 VW Atlas SEL

***All changes performed at your own risk! Start off with a full factory scan and save. Also map every adaptation channel for every module and save. MQB platform is the modern one and VW switched almost every controller over to adaptation channels.**

***Items with a check have been performed.**

Items with an orange title are mods that should be able to be performed on SEL-P models. Coding is carried over from my 2019 Tiguan SEL-P R Line.

***Items in red under the In Progress section, I'm still trying to locate or need to see if possible. As some past options are no longer available.**

ACC (Adaptive Cruise Control)

ACC Automatic Resume ✓

Pseudo Traffic Jam Assist (TJA), needs VCP in order to flash camera firmware to allow under 40 mph lane assist to stay active on NAR models. **No known .zdc file for the Atlas, and using a .zdc file from another model based upon A5 control module HW/SW is not suggested as the parameters would differ due to difference in vehicle size.**

Control Unit 13

Security Access

Long Coding

Automatic_driveaway_by_pretrigger - change to activated

Automatic_driveaway_after_short_stop - change to activated

Driveway_by_triggerleaver - change to activated

In my notes I have *driveaway_by_pretrigger* and *driveaway_by_triggerleaver* as "Enabling the Resume button to start moving with ACC from a stop". So instead of having to touch the accelerator pedal, you only use the Resume button.

Overtaking Assistance (When turn signal on to change lanes, car speeds up to pass when using ACC. Faster you change lanes the quicker Overtaking Assistance responds.) ✓

Control Unit 13

Security Access

Long Coding

Search for Overtaking

Old Value: deactivated

New Value: activated

Boost Function ✓ (Res button can be used to accelerate by pressing and holding, thank you TurboMan for the insight)

Control Unit 13

Security Access

Long Coding

Boost Function

Old Value: deactivated

New Value: activated

Adaptive lane assist ✓

Control Unit A5
Security Access
Long Coding
Find Point_of_intervention
Old Value: late
New Value: early_setting_over_menu

Drivers Reaction Adjustment (Car must be fitted with Camera and may no longer be present in some vehicles)

Adjusts the sensitivity in which the car will alert the driver due to lack of steering input.

Control Unit A5
Security Access
Adaptation
Select channel deactivation threshold driver activity
Value adjust accordingly Default: medium options: early, middle, late

Read more:

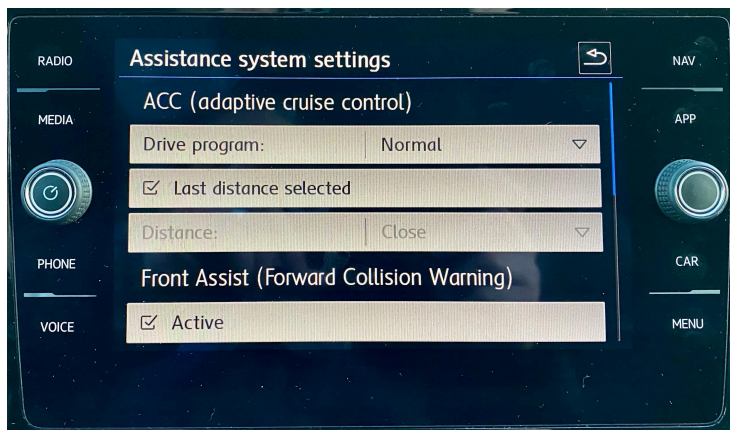
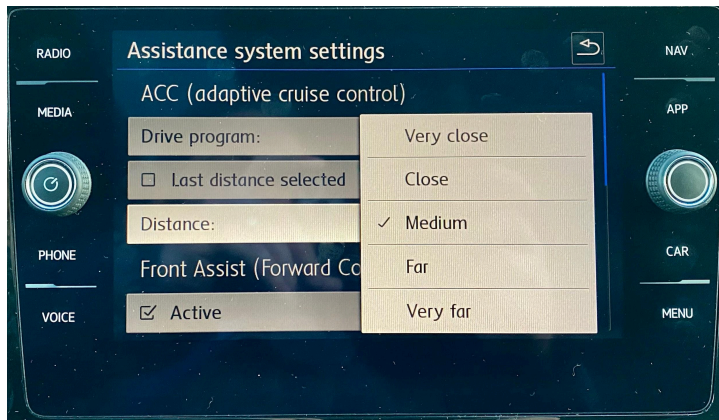
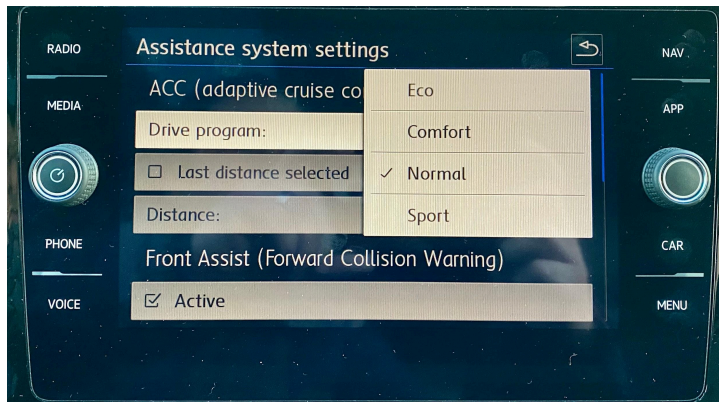
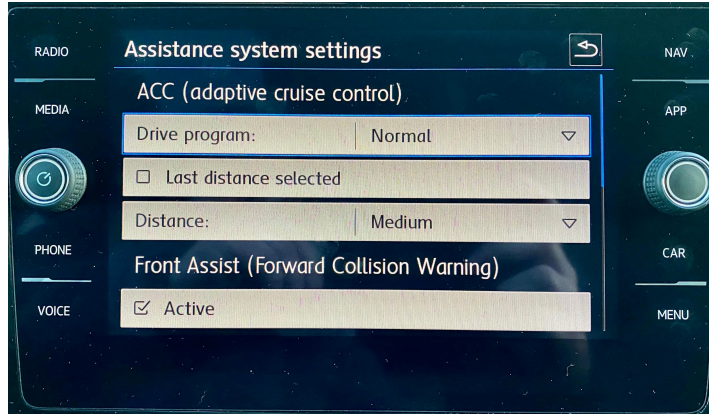
<http://forum.obdeleven.com/thread/4908/tiguan-mk2-coding-adaptations#ixzz5fuRwW3gD>

ACC Last Distance Selected ✓

Control Unit 13
Security Access
Adaptation
Search for Distance Basic Setting Option
Old Value: off
New Value: on

ACC Select Drive Program ✓

Control Unit 13
Long Coding
Drive_pmode_selection
Old Value: Driving mode selection
New Value: MMI_menu_ACC



Overtaking Right Prevention* ✓

Control Unit 13

Security Access

Long Coding

Overtaking Right Prevention

Old Value: Deactivated

New Value: Activated

*Car will pace with the car on the left as seen in the picture above and keep distance with the car in front (if present). To pass on the right, just tap the gas to disable allowing you to pass the vehicle on your left.



[Windows/Sunroof/Wipers/Locks & Start/Stop](#)

Allow comfort opening in general [mandatory] ✓

Still in 09 Adaptations
Find ZV Komfort-
Komfort oeffnen
Old Value: not_active
New Value: active

Opening by KESSY (closing is already enabled) ✓

Control Unit 09
Security Access
Adaptation
Keyless access and start authorization
Kessy Komfort oeffnen
Old Value: not_active
New Value: active

Opening/Closing Windows by Keyfob ✓

Still in 09 Adaptations
ZV Komfort
Funk Komfort oeffnen
Old Value: not_active
New Value: active

Funk Komfort schliessen
Old Value: not_active
New Value: active

[Video - Opening/Closing with Keyfob](#)

Opening/Closing Windows by Keyhole ✓

Still in 09 Adaptations

ZV Komfort

Schliesszylinder Komfort oeffnen

Old Value: not_active

New Value: active

ZV Komfort

Schliesszylinder Komfort schliessen

Old Value: not_active

New Value: active

[Video - Open Windows via keyhole](#)

[Video - Close Windows via keyhole](#)

[Video - Open Windows via backdoor keyhole](#)

[Video - Closing Windows via backdoor keyhole](#)

Opening/Closing Window function active with Ignition off & Door Open ✓

Control Unit 09

Security Access

Adaptation

ZV Komfort

Find Freigabenachlauf FH bei Tueroeffnen abbrechen

Old Value: active

New Value: not_active

Window Auto Drop ✓

Control Unit 42
Security Access
Long Coding
short_drop
Old Value: not_active
New Value: active

Control Unit 52
Security Access
Long Coding
short_drop
Old Value: not_active
New Value: active

Sunroof ✓

Open the sunroof all the way, but the sunshade stays closed like on Audi's.

Control Unit 09
Security Access
Long Coding
Necessary_linkage_sunroof_blind
Old Value: Active
New Value: Not_active

Sunroof control after shutting off ✓

Control Unit CA
Security Access
Long Coding
Continue_closing_movement_without_BCM_FH_Freigabe
Old Value: Not_active
New Value: Active

Ability to close the sunroof after turning off the vehicle before exit.

Rear Wiper delay from 7 seconds to 15 ✓

Control Unit 09
Security Access
Adaptation
Rear Window Wiper
Change every single duration to 15s
Find Einzelansteuerung Heckintervallwischen

Set this to the 2nd option from not_active to Unbhaengig_etc. This means that the delay you pick won't be dependent on vehicle speed.

Rear Wiper Automatic Activation ✓

Control Unit 09
Security Access
Adaptation
Rear Window Wiper
Find Automatisches Heckwischen
Old Value: Not_active
New Value: Active

After approximately 45 seconds the rear wiper will activate with steady wiping of the front wipers. Eliminates the need to push stalk forward to turn on rear wipers.

Doors unlock when driver door handle pulled, not when shift to park ✓

Control Unit 09
Security Access
Adaptation
ZV Autolock
Find automatisches Entriegeln
Old Value: active
New Value: not active

If that doesn't work, try:

Control Unit 09
Security Access
Adaptation
ZV Autolock
Autounlock NAR
Change from Active to Not Active

Lock with keyfob while engine running ✓

Control Unit 09
Security Access
Adaptation
ZV allgemein
Funk bei Klemme 15 ein
Old Value: not_active
New Value: active

Auto Lock ✓

Control Unit B7
Security Access
Long Coding
Easy Close set to activated
Adaptations
Internal passive entry exit byte1
Passive exit door slam lock
Old Value: not activated
New Value: activated

Precrash Comfort Closure ✓

Windows and sunroof automatically close during a crash.

Control Unit 09
Security Access
Adaptation
ZV Crash
SAD precrash komfortschliessen
Old Value: not_active
New Value: active

Deactivate Start/Stop (does not work for 2020+ models due to regulations, hardware is required) ✓

Control Unit 19
Security Access
Adaptation
Search for Start/Stop start voltage limit
Old Value = 7.8
New Value = 12 (highest value is 12.1)

Soft start with Autohold (eliminates jerk at start) ✓

Control Unit 03
Security Access
Adaptation
Dynamic Start Assist
Old Value Ok
New Value Early
Hill Assist
Old Value Ok
New Value Early

Ignition Warning Off Message/Beep (You must remember to shut off if you only turn on the Ignition) ✓

Control Unit 17
Security Access
Adaptation
Search for Ignition active message actuator
Old Value: trigger_on_dc_door
New Value: off

Exterior Lighting

Dynamical Low Beam Light ✓

Control Unit 4B

Security Access

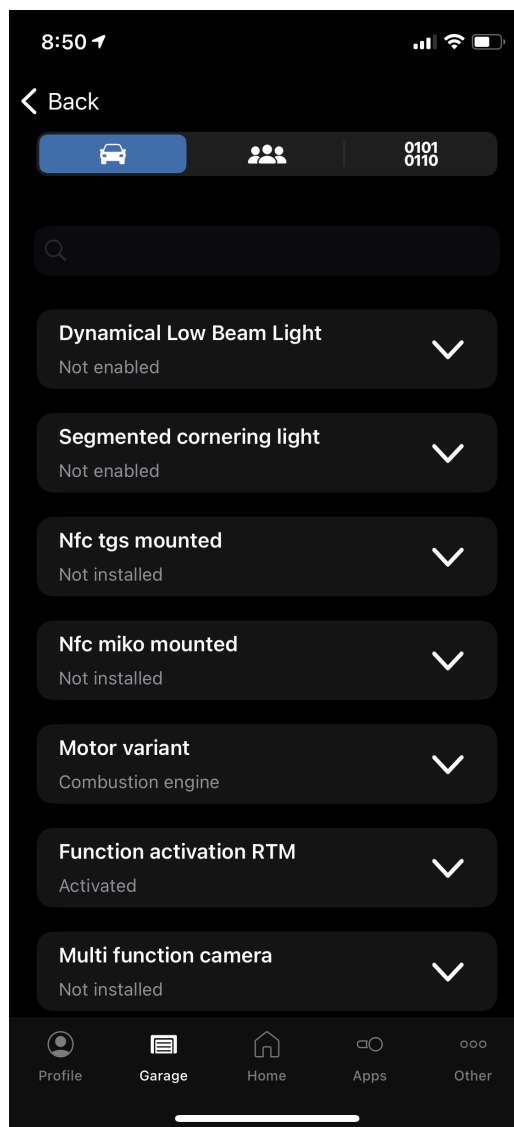
Long Coding

Dynamical Low Beam Light

Old Value: Not enabled

New Value: Enabled

Dynamical Low Beam Light adjusts the lumen intensity based upon speed & darkness under the speed of when High Beam Assist (HBA) would normally kick in at approximately 37 mph.

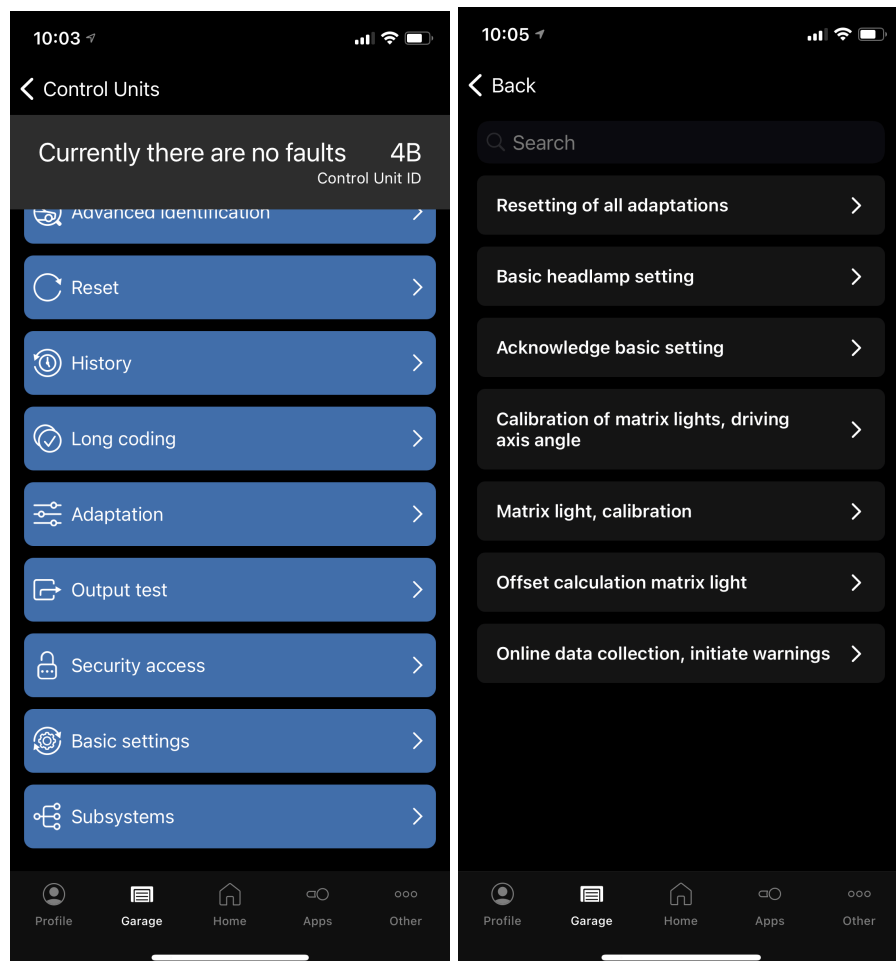


NO NEED TO RUN BASIC SETTINGS WITH STATIC HEADLIGHTS FOUND ON MK1 ATLAS.

If errors are present or you have newer models that have a startup sequence, you may need to perform Basic Settings. I've added the process below. I do not have access to newer models, so again perform at your own risk.

After changes are made Basic Settings needs to be ran for changes to be accepted by the control module, see steps below.

OBD11 you will need to go in Basic Settings under 4B to have the module accept changes made to the headlights. To accept the changes, you need to be on a level surface, ignition on, engine off, and then you'll want to leave the keys in the car while you stand outside to not introduce any additional weight to the car. You want to run Basic headlamp setting first, and it will appear nothing is happening but wait about 10 to 15 seconds before stopping the process. Once done go back one level and then run Acknowledge Basic Setting for around 10 to 15 seconds. This will now write the new settings to the headlights and clear the error that takes place from these changes. Note if you back out any coding performed, you need to run Basic Settings again so that the changes back are accepted.



High Beam Assist stays on, even after cycle ✓

Control Unit 09
Security Access
Adaptation
Search for Fernlicht_assistent
Find Erweiterte_Fernlichtsteuerung
Old Value: AFS, Fernlicht ueber AFS
New Value: AFS, FLA, Fernlicht ueber AFS

Control Unit A5
Security Access
Long Coding
AFS_coding_Light_Assist
Old Value: no_Light_Assist
New Value: High_Beam_Assist

Control Unit 09
Security Access
Adaptation
Search for Fernlicht_assistent
Find Menuesteuerung Fernlichtassistent
Old Value: not available
New Value: available

Control Unit 09
Security Access
Adaptation
Still in Fernlicht_assistent
Find Fernlichtassistent Reset
Old value: not_active
New Value: active

By doing this, if your light-switch is in the Auto position when you start the car, HBA will be automatically enabled (White headlight symbol on the dash).

(rough translation is: Adjust value to: "not active" [default = "active", i.e. High-beam assistant deactivated with "Ignition off"]. - in other words, this stops HBA from being reset to off when the ignition is switched off)

*Last step may have to be switched back to not_active to keep active

Single Side Parking Light (SSPL) ✓

Control Unit 09

Security Access

Adaptation

Find Aussenlicht_uebergreifend

Parklicht ueber LSS aktiviert

Old Value: not_active

New Value: single sided

Still in Control Unit 09

Find the following Leuchte entries

Leuchte20BR LA71-Lichtfunktion F 20 == Parklicht links (beidseitiges Parklicht aktiviert li & re)

Leuchte20BR LA71-Dimmwert EF == change from 0 to 127 (or value of your liking)

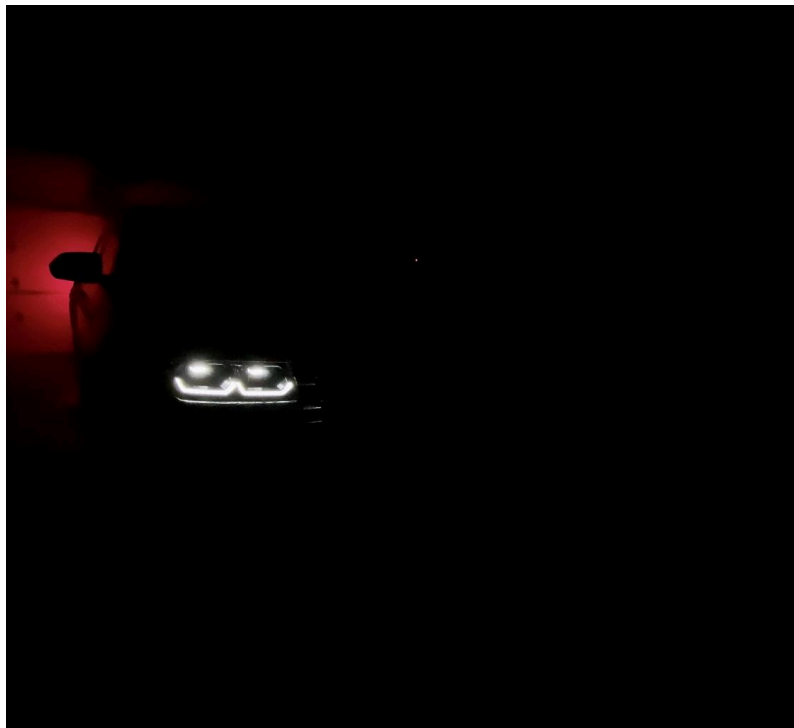
Leuchte21BR RC8-Lichtfunktion F 21 == Parking light rechts

Leuchte21BR RC8-Dimmwert EF == change from 0 to 127 (or value of your liking)

Front and rear lights are engaged to the side you position your turn signal stalk towards. In the video below the turn signal is put in the position for a left turn signal before exiting the Atlas.

[Video - Single Side Parking Lights \(Atlas\)](#)

Pic of SSPL on the passenger side in garage to see front and rear at the same time.



Single Side Parking Light (SSPL) using energy management in Control Unit 09

Channel name	From:	To:	Reason
Außenlicht_uebergreifend-Parklicht ueber LSS aktiviert	not active	Single Side	Enable to use the turn signal stalk for SSPL
Außenlicht_uebergreifend-Bedingungen zur Parklichtbegrenzung	begrenzen auf Mindestverfügbarkeit	abschaltbar über Energiemanagement	Changes energy management which turns off the parking lights
Außenlicht_uebergreifend-Bedingungen zur Standlichtbegrenzung	begrenzen auf Mindestverfügbarkeit	abschaltbar über Energiemanagement	Changes energy management which turns off the parking lights
Leuchte20BR LA71-Lichtfunktion F 20	not active	Parklicht links (beidseitiges Parklicht aktiviert li & re)	Enable parking light for driver side outer tail light
Leuchte21BR RC8-Lichtfunktion F 21 Tagfahrlicht	not active	Parking light right	Enable parking light for passenger side outer tail light

Match SSPL timeout settings to former Tiguan, set duration to 3 hours for Single Side Parking Lights (current setup) in Control Unit 09 ✓

Corey's SSPL adaptations (3 hours - tested) ✓

Außenlicht_uebergreifend-Faktor fuer Verfuegbarkeitstimer	Change to Faktor fuer x1 Stunden
After-run for park light-Standlicht-Nachlaufzeit	30 min
Außenlicht_uebergreifend-Standlicht-Verfuegbarkeit	Change to 3 s

Dude's instructions

The time limit ("Verfügbarkeitstimer") seems to be encoded in the next couple channels. My 7R came coded like this:

(4)-After-run for park light-Faktor fuer Verfügbarkeitstimer	Faktor fuer x5 Minuten
(5)-After-run for park light-Standlicht-Nachlaufzeit	255 min
(6)-After-run for park light-Standlicht-Verfügbarkeit	6 s

Ignore the incorrect time unit on the last channel (6). The time limit can be set with the unit and multiplier in channel (4) combined with (6). In the above case, (x5 minutes and 6) = 30 minutes. I've played around with **Verfügbarkeitstimer** and it allows you to set a maximum time limit after which the SSPLs will turn off. For example, **Faktor fuer x1 Sekunde** in (4) and **30** in (6) will have the lights turn off in 30 seconds.

Rear Fog Light (Requires Euro Switch and replacement of driver side reverse light with a 194/921 Red LED) ✓

Control Unit 09

Security Access

Adaptation

Aussenlicht_uebergreifend

LDS_mit_Nebel_Schlusslicht

Old Value: no

New Value: yes

Search: Leuchte28RFL LC11-Lichtfunktion B 28

Old Value: Nicht aktiv

New Value: Nebelschlusslicht wenn kein Anhaenger gesteckt

This tells the BCM that the vehicle is to use a rear fog in that lamp position with the EuroSwitch.



Rear Fog Light Operate with High Beam “flash” ✓

Per the link below, Option 1 and Option 2 had to be enabled to function properly with High Beam Assist set to persistent with cycle. When you flash your high beams the rear fog will flash in conjunction.

Control Unit 09

Security Access

Adaptation

Leuchte28RFL LC11-Lichtfunktion C28

Old Value: Not active

New Value: Lichthupe bei nicht aktivem Abblendlicht und nicht aktivem Dauerfahrlicht

Leuchte28RFL LC11-Lichtfunktion D28

Old Value: Not active

New Value: Lichthupe bei bereits aktivem Abblendlicht oder bereits aktivem Dauerfahrlicht

Leuchte28RFL LC11-Dimmwert CD 28

Old Value: 0

New Value: 127

[Video - Rear fogs flash with High Beam flash](#)

<http://www.vwatercooled.com.au/forums/f197/vcds-vag-com-codes-programmable-options-golf-mk7-84619-post1224782.html#post1224782>

Fogs enabled with Flash to Pass ✓

Fogs flash with high beams when engaging flash to pass.

Control Unit 09

Security Access

Adaptation

Leuchte12NL LB45-Dimmwert CD 12

Old Value: 0

New Value: 127

Leuchte12NL LB45-Lichtfunktion D 12

Old Value: Not active

New Value: Lichthupe generell

Leuchte13NL RB5-Dimmwert CD 13

Old Value: 0

New Value: 127

Leuchte13NL RB5 - Lichtfunktion D 13

Old Value: Not active

New Value: Lichthupe generell

Adjusting Cornering Fog Light Sensitivity (Angle Threshold) ✓

Control Unit 09

Security Access

Adaptation

Static AFS Light

Oberer Lenkradwinkel

Old Value: 120

New Value: 20

Fog lights will now turn on in curves when the steering wheel is 20 degrees from top dead center.

Video below is 5 degrees, this is too sensitive for driving as it is distracting during driving. This was proof of concept to show that it can work. 20 degrees is good for driving in dark backroads and around town. Originally tested with 30 degrees and at times when expecting fogs in a turn the angle of curve was not great enough.

[Video - Angle Threshold for fogs from Tiguan](#)

Fade out vs Instant Off for Cornering/Fog Lights when turning ✓

Control Unit 09

Security Access

Adaptation

Static AFS light

Search for Abdimmgeschwindigkeit

Old Value: 50%/s

New Value: 125%/s (Higher numbers are slow, 125% is max)

Emergency Brake Flashing (works can confirm, emergency flashers come on and stay on until you hit the gas) ✓

Control Unit 09
Security Access
Adaptation
Aussenlicht_Blinker
Emergency_alert_blinken
Old Value: not_active
New Value: active
Notwarn_blinken_NBA_Phase_2
Old Value: not_active
New Value: active
Aussenlicht_Heck
Notbremsanzeige NBA
Old Value: not_active
New Value: active

[Video - Emergency braking, emergency flashers](#)

4 Brake Lights (Inner tails working as brake lights) *

Control Unit 09
Security Access
Adaptation

Left side inner:

Leuchte23SL HLC10 - Lichtfunktion C23 from Not Active to Brake Light

Leuchte23SL HCL10 - Dimmwert CD 23 from 0 to 127

Right side inner:

Leuchte24SL HRA65 - Lichtfunktion C24 from Not Active to Brake Light

Leuchte24SL HRA65 - Dimmwert CD 24 from 0 to 127

***Note - Tested and inner tails do NOT change orientation like the outer tails when set to brake light. Backed out for now, I need to research to see if inner tails can even change orientation.**

“Autobahn” Lights - lights automatically turn on at ~85 mph even in daylight, when back under ~60 mph stay on for ~10 seconds before turning off ✓

Control Unit 09
Security Access
Adaptation
Light Sensor
Old Value: not_active
New Value: active

Outer Tail illumination when hatch is open ✓

Control Unit 09
Security
Adaptation
Leuchte 21BR RC 8
Lichtfunktion G21 - nicht aktiv, change to Heckdeckel offen
Dimmwert GH21 - 0, change to 127
Leuchte 20BR LA71
Lichtfunktion G 20 - nicht aktive, change to Heckdeckel offen
Dimmwert GH20 - 0, change to 127

Enable Mirror LED Light for night parking

Control Unit 09
Security Access
Adaptation
Aussenlicht uebergreifend
Umfeldleuchte als Manoevrierleuchte
Old Value: Not active
New Value: Active

Control Unit 6C
Long Coding
Manoeuvre Light or Maneuver Light
Old Value: Off
New Value: On

*Viewable only with the Area View system and needs to be in reverse. See pic below showing illumination on the ground under the side view mirrors.



Puddle lights active even when closed

Enabled Mirror / Puddle Lights When Mirrors Are Closed

Control Unit 42 (Driver side)

Security Access

Long Coding

Select Byte 01

Bit 05

Old Value: Checked

New Value: Unchecked

Control Unit 52

Security Access

Long Coding

Select Byte 01

Bit 05

Old Value: Checked

New Value: Unchecked

[Video - Puddle lights on during unlock](#)

[Video - Puddle lights on during unlock \(night view\)](#)

Interior Lighting

Interior Lights Fade-out activation ✓

Control Unit 09
Security Access
Adaptation
Find Suchbeleuchtung_allgemein
Search for KL58 Einschalten mit Rampe
Old Value: not_active
New Value: active

Noticed that this takes effect on my Euro switch, most noticeable with Ramp up. As the interior lights fade off, the Euro switch fades on. In the videos below I turned off the interior lights to be seen better.

[Video - Fade off](#)

[Video - Ramp up \(Rampe\)](#)

[Video - Progressive internal lights](#)

Engine Start/Stop Heartbeat ✓

Control Unit B7
Security Access
Adaptation
DeveloperCoding: Search lights
Change the follow to active
DeveloperCoding:Search lights-ZAT_illumination_concept_mybeat_clamp58xt
DeveloperCoding:Search lights-ZAT_illumination_modus_mybeat_clamp58xt

[Video - Pulsating Engine Start/Stop](#)

Delay of internal lighting upon entry (coding below, footwells light up first, switch set to 0.8s for the door lamps, and 1.6s for ceiling)

Control Unit 09

Security Access

Adaptation

Interior lighting parameters/Interior light parameter

p_t_verzoegerung_einstieg_fussraum: 0.0s

p_t_verzoegerung_einstieg_tueren: 0.8s

p_tverzoegerung_einstieg_innenlicht: 1.6s

Apply

Delay of internal lighting upon exit (coding below, footwells shut off last at 1.6s, door lamps off at 0.8s, and 0.0s for ceiling)

Control Unit 09

Security Access

Adaptation

Interior lighting parameters/Interior light parameter

p_t_verzoegerung_ausstieg_fussraum: 1.6s

p_t_verzoegerung_ausstieg_tueren: 0.8s

p_tverzoegerung_ausstieg_innenlicht: 0.0s

Apply

Ambient light Colors

Performed in VCDS originally, so may require a little searching. Beauty of OBD11 is that the color sets are grouped together by value, not by color. So your first color as an example the Red (1), Green (1), and Blue (1) are grouped together. Unlike VCDS where you have to go to Rotwert 1, then find Gruenwert 1, and then go back to Blauwert 1.

Control Unit 09

Security Access

Adaptation

Int. light, 2nd generation - Instrumententafelbeleuchtung mehrfarbig

Old Value: Not active

New Value: Active

Interior light, light configuration - Ambient_Farbliste_HMI

Old Value: Not active

New Value: Active

Ambient Light Color List: (0) > Set your RGB Values for all 10(or 30) Colour options (Rotwert = Red, Gruenwert - Green, Blauwert = Blue)

[VN]_Interior_light_light_configuration:

[LO]_Ambient_Farbliste_HMI: [VN]_active

[VN]_Ambience_lightning_color_list: or Ambientelicht Farbliste

***[Link to 30 color RGB Codes](#)** - RGB color values were searched for, some at the request of my little girl who loves VDubs.

[AID \(Active Information Digital Dash\)](#)

Change visuals on AID ✓

Change the cluster background visuals to different models:

Control Unit 17

Security Access

Adaptation

Tube_Version

Variant_0

Variant_1 (Current setting)

Variant_2 = Default

Variant_3 = Golf GTI

Variant_4 = Golf R

To get 3D/carbon/dots (see it called different names):

Control Unit 17

Security Access

Adaptation

Display_depiction

Default is variant_1

Change to **variant_3 (Current setting)**

Example of current settings with blue graphic dots.



Gold graphic details on AID

Module 17 -> Adaptation -> search for Tube Version -> select one from 4 version (version 3 is gold, 1 and 2 looks identical for me)

Example of Golf R with Version 3 for carbon/dot matrix look (default color is goldenrod) below



Refuel quantity on AID as one of Driving Data options* ✓

Control Unit 17
Security Access
Long Coding
Byte 10
Bit 4 activated

*You must go into Car Settings to check off as an option to view under Driving Data option on the AID after enabling. Also, you will see dashes until you use ~2 to 5 gallons.



Outside Temp Warning ✓

Control Unit 17
Security Access
Adaptation
Find outside temperature
p_ice_warning_entry_temperature
Old Value: 4°C
New Value: -10°C

Disable seatbelt warning chime ✓

Control Unit 17
Security Access
Long Coding
Find belt warning
Old Value: us
New Value: off

Gauge sweep (Works, but specific scenarios on AID) ✓

Control Unit 17
Security Access
Long Coding
Byte 1
Bit 0 Activate (Ignore Bit 1, it will not work)

[Video - Gauge Sweep/Celebration](#)

Reduce Service Soon Warning ✓

May want to add this one - it reduces the “service soon warning” which starts 30 days ahead of time and shows every time you start the car. I reduced mine to two weeks.

Control Unit 17
Security Access
Adaptation
Service notification in days
Old Value: 30
New Value: 24

Change distance to oil service* ✓

Control Unit 17

Security Access

Adaptation

Search for SIA: maximum value of distance to service

Old Value is 16100 km (this equals 10100 miles as shown in the MIB)

New Value changed 12070 km (this equals 7500 miles in the MIB)

*This does not change the inspection distance for the 10K intervals for factory service

Lap Timer

Control Unit 17

Security Access

Long Coding

Byte 1

Bit 3

Old Value: Unchecked

New Value: Checked

*Same as with Refuel Quantity above, you have to go into Car Settings to check off as an option after enabling.

Speed limit sign detection, display and cruise

The speed limit signs are displayed in Euro Style as a red circle with the speed limit displayed inside it. Also be aware if you set a speed warning notification by having Traffic Sign Recognition on it will activate based upon the Euro Style signs being in km/h not mph.

I disabled as there is no way to get rid of the error notification on the dash that the function is limited, even though it works properly. The error is not one that shows while scanned by VCDS or OBD11. So the system is operating as intended, but requires a software update to the control module(s) if available and was not on my Tiguan. It is cool, but I got tired of the notification. Also noticed even if you back the coding out, NAV on the MIB would no longer show the speed limit signs.

1. Go into Module 5F Information Electronics
 2. Select Adaptations, then Vehicle_Functions_List_BAP_Gen2
 3. Select menu_display_road_sign_identification_0x21, (OR menu_display_traffic_sign_recognition_0x21) and set to *Enabled*
 4. Select Adaptations, Vehicle_Function_Adaptations_Gen2-menu
 5. Select menu_display_road_sign_identification (OR menu_display_traffic_sign_recognition), set to *Enabled*
 6. Go Back
 7. Select Coding, and then select Byte 24, activate Bit 6
 8. Go into Module A5 - Front Sensor Driver Assistance
 9. Security Access – Access Code 20103
 10. Select Coding, and then select Byte 16, activate Bit 4
 11. Go into Module 17 Instruments
 12. Select Coding, then Byte 5, active bit 2
 13. Go back into Module A5 - Front Sensor Driver Assistance
 14. Security Access – Access Code 20103
 15. Select Adaptations, then Road sign detection fusion mode, and change to *Road Sign Detection* (default is Road Sign Fusion)
 16. Press and hold infotainment device power button to reboot the infotainment system
- ANOTHER VERSION

I had a Tiguan SEL-P and the speed limit info does work for me. Codes need to be changed on modules 5F, A5 and 17. If you have an SEL-P, I am not sure why your A5 module would be different from others.

Instructions are listed below:

1. Go into Module 5F Information Electronics
2. Security Access – Access Code 20103
3. Select Adaptations, then Vehicle_Functions_List_BAP_Gen2
4. Select menu_display_road_sign_identification_0x21, (OR menu_display_traffic_sign_recognition_0x21) and set to Enabled
5. Select Adaptations, Vehicle_Function_Adaptations_Gen2-menu
6. Select menu_display_road_sign_identification (OR menu_display_traffic_sign_recognition), set to Enabled
7. Go Back
8. Select Coding, and then select Byte 24, activate Bit 6
9. Go into Module A5 - Front Sensor Driver Assistance
10. Security Access – Access Code 20103
11. Select Coding, and then select Byte 16, activate Bit 4
12. Go into Module 17 Instruments
13. Select Coding, then Byte 5, active bit 2
14. Go back into Module A5 - Front Sensor Driver Assistance
15. Security Access – Access Code 20103
16. Select Adaptations, then Road sign detection fusion mode, and change to Road Sign Detection. The original is Road Sign Fusion
17. Press and hold infotainment device power button to reboot the infotainment system

Note - Pre-coding MIB will display speed limit sign on top left as an overlay based upon data off of Navigation SD Card. Post coding this will no longer show on the MIB. Reverting of code back to factory coding will not re-enable the overlay of the speed limit sign on the top left of the MIB.

HVAC

Display fan speed in Auto mode ✓

Control Unit 08
Security Access
Long Coding
Byte 11
Bit 6 Activate

Retain seat heating settings for stops less than 10 min ✓

Control Unit 08
Security Access
Adaptation
"retention of the seat heater level driver" change to active
"retention of the seat heater level passenger" change to active

***Hot Country Coding* ✓**

Control Unit 08
Security Access
Long Coding
Byte 4
Bit 1
Old Value: Unchecked
New Value: Checked

MIB

DRL option in MIB ✓

Control Unit 09

Security Access

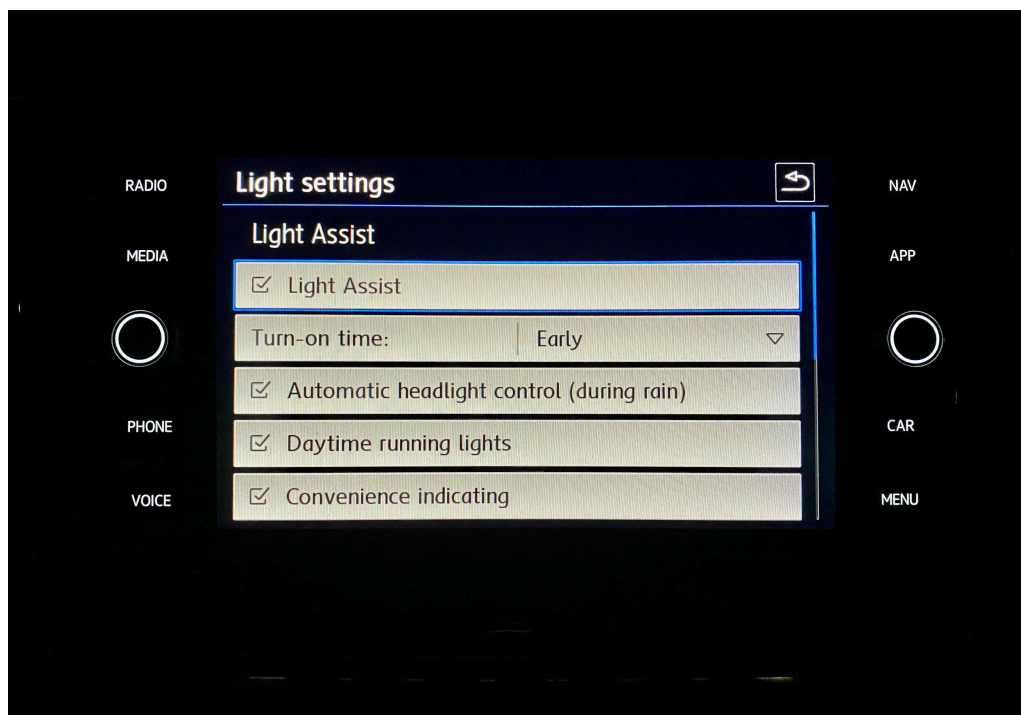
Adaptation

Aussenlicht Front

Tagfahrlicht Aktivierung durch BAP oder Bedienfolge moeglich

Old Value: Not active

New Value: Active



Enter address/text while driving (saw this in an OBD11 thread) ✓

Control Unit 5F

Security Access

Adaptation

Search "Locked", change all values from Blocked to Non_Blocked

Long Coding

Go to Byte 23

Uncheck all items (value for Byte 23 should be 00)

*Credit for the u/martiansoldier for the last 3 steps. Now verified working.

Remove NHTSA for Apple Carplay for Keyboard function while driving ✓

Control Unit 5F

Security Access

Adaptation

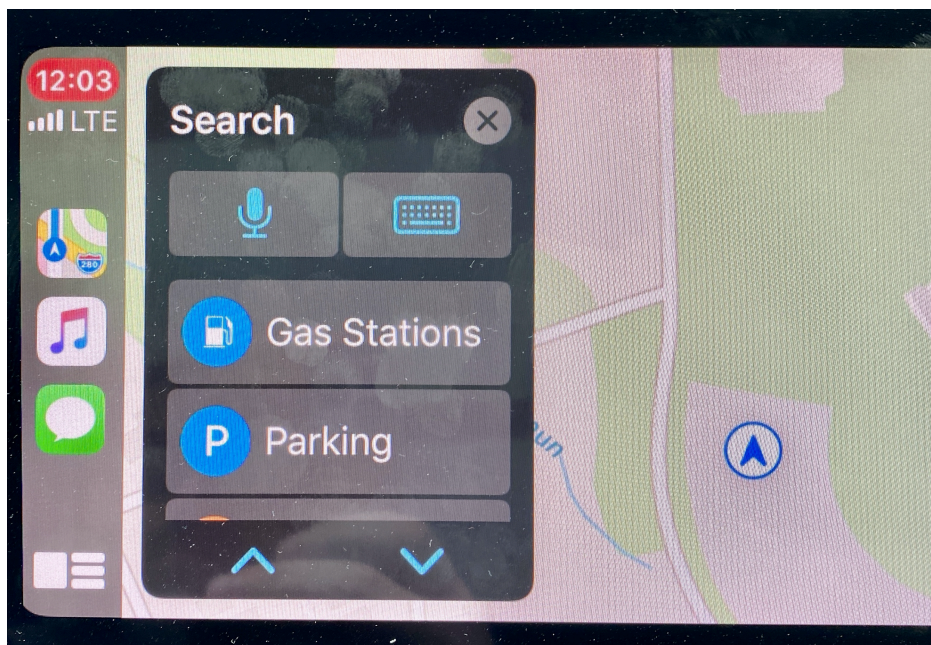
Search for NHTSA

Find limitation_switches_for carplay_no_softKeyboard

Old Value: activated

New Value: not activated

*Photo taken while in motion to show the keyboard option is available now after this mod.



For Android Auto/Apple Carplay NHTSA restrictions removals

Control Unit 56

Security Access

Adaptation

Search for NHTSA change what you what from activated to not activate

Disable Sat Nav Safety Warning (only if you are getting this warning)

This tweak disabled the safety warning which appears each time you turn the car on

Control Unit 5F
Security Access
Security Coding
Byte 23
Initial Disclaimer – Off
Legal Disclaimer – Off

Read more:

<http://forum.obdeleven.com/thread/4908/tiguan-mk2-coding-adaptations#ixzz5fuRWT5kK>

3D View for 360 degree camera (Area View)

Control Unit 6C
Long Coding
3D_Presentation
Old Value: Off
New Value: On

[Video - 3D View for Area View](#)

Microphone Sensitivity* ✓

Control Unit 5F
Security Access
Adaptation
Microphone Sensitivity
Increase as needed, old value is 0 dB, changed mine to 6 dB

*If someone has found a better dB setting, please advise in the forums ([VWVortex](#) or [OBDEleven](#))

Seats

Easy Entry ✓

(Seats move back to the furthest position when you open the door after turning off ignition. They will move back to memory after you turn on ignition. Driver Profile must be enabled.)

Control Unit 36

Security Access

Long Coding

Easy_Entry_Front: Not Active -> Active

Easy_Entry_Front_Over_MMI -> Active*

*Last option displays the function in the MIB under Car Settings.

Side View Mirrors

Heated mirrors with rear window ✓

Turns on heated mirrors when the heated rear window is turned on regardless of joystick position for the mirrors on the doors.

Control Unit 52
Security Access
Long Coding
Byte 9
Bit 2
Old Value: Not Active
New Value: Active
Apply

Control Unit 42
Security Access
Long Coding
Byte 9
Bit 2
Old Value: Not Active
New Value: Active
Apply

Mirrors fold out when car started remotely

Control Unit 09
Security Access
Adaptations
Look for "spiegelverstellung"
Old Value: Active
New Value: Not Active
Look for "signalisierung_spiegelanklappung"
Old Value: Active
New Value: Not Active

All Wheel Drive

Increased Traction Mod

Control Unit 22

Security Access

Adaptation

Acoustic measure, wiring logic -> change to Increased Traction*

*Will reduce mpg by about 2 miles per gallon. My plan is since I'm not in an area with a lot of snow this will only be enabled during the winter season when snow is coming my way and/or traveling to a known snowy area. Also don't want to introduce undue wear and tear.

Brakes

XDS ✓

Control Unit 03

Security Access

Adaptation

Select: Expanded Electronic Differential Lock

Options: Weak – Normal (Default) – **Medium** - Hard

Russky Coding

BAS (Brake Assist System)/Brake Boost in NAR?

Control Unit 03
Security Access
Adaptation
Select: Brake Boost (?)
Options: 0-medium, 1-low, 2-high
Apply

Turning off interior lighting when opening the trunk

Control Unit 09
Security Access
Adaptation
2nd Gen Interior lighting
Innenlicht bei offenem Heckdeckeinschalten
Old Value Active
New Value Not Active
Apply

Activation after a long hold on the glass washer lever

Control Unit 09
Security Access
Adaptation
Scheinwerferreinigung - SRA Verzögerungszeit
Old Value: 0ms
New Value: 2500ms
Apply

Service Position in MIB3

Control Unit 09
Security Access
Adaptation
Front Wiper
Menuesteuerung Frontwischer
New Value: Active
Apply

Locking from Easy Close Button on Tailgate

Control Unit B7
Security Access
Adaptation
Byte9 VIP
Easy Close Locking
Old Value: Not Active
New Value: Active
Apply

KESY Handles no longer work when ignition/engine is on but locked, requires Keyfob to unlock before entry (default for Atlas is KESY handles functional when vehicle is locked with engine running)

Control Unit B7
Security Access
Long Coding
Byte 0
Bit 4
Old Value: Checked
New Value: Uncheck
Apply

Easy Entry Passenger Seat*

***Don't think this is possible since there is no Controller 6 for Passenger Seat Adjustment**

Control Unit 36
Security Access
Long Coding
Byte 9
Bit 4
Old Value: Unchecked
New Value: Checked
Apply (with controller reboot?)

Display of heated mirrors as separate item in the MIB for Consumption

Control Unit 19

Security Access

Adaptation

Efficiency Program Display

Consumption of comfort systems

Heated outside rear-view mirrors dependence

Independent of outside temperature without switch

Increased power reserve

Consumption of heated outside mirrors in heated rear windows

Enabled

Apply

Automatic sunroof closure in rain (sunroof only per coding and comments under the Windows page)

Control Unit 09

Security Access

Adaptation

Access Control 2 (need to find exactly in OBD11, this is a VCDS label if I recall correctly)

RegenschlieRen - Permanently

RegenschlieRen - Active

Apply

Control Unit 09

Security Access

Subsystems

RLHSS

Long Coding

Byte 0

Bit 1 Enable

Bit 2 Enable

Apply

Display caller's photo, album cover, radio station logo

Control Unit 17

Security Access

Adaptation

Picture Upload Download

Old Value: Not Active

New Value: Active

Apply

In Progress

3rd LED Side Lights in the rear tail

(Does not work on the Atlas, need to determine the proper light channel)

This will allow the 3 LED lights on the side of the rear lights to flash with the turn signals. Also will flash in unison with the parking lights on.

Control Unit 09
Security Access
Adaptation

Leuchte16BLK SLB35BLK SL KC9 Dimming direction CD 16. Change from Maximize to Minimize. Sets the 3 LED on the right side flash with turn and park lights on.

Leuchte16BLK SLB35BLK SL KC9 Dimmwert CD 16. Change from 0 to 127 This is the flashing brightness of 3 LED on the right side with parking lights off.

Leuchte16BLK SLB35BLK SL KC9 Lichtfunktion C 16. Change from Parking light right to Blinken rechts hellphase. Makes the rear side 3 LED on the right side flash with parking light off.

Leuchte16BLK SLB35BLK SL KC9 Lichtfunktion C 16. Change from Not active to Blinken rechts dunkelphase. Makes rear, side 3 LED on right side flash with park lights on.

Leuchte17TFL R BLK SRB3TFL R BLK SR KC3 Dimming direction CD 17 Change from Maximize to Minimize. Sets the 3 LED on the left side flash with turn and park lights on.

Leuchte17TFL R BLK SRB3TFL R BLK SR KC3 Dimmwert CD 17 Change from 0 to 127. This is the flashing brightness of 3 LED on the left side with parking lights off.

Leuchte17TFL R BLK SRB3TFL R BLK SR KC3 Lichtfunktion C 17 Change from Parklicht links beidseitige... to Blinken links hellphase. Makes rear side 3 LED side on left side flash.

Leuchte17TFL R BLK SRB3TFL R BLK SR KC3 Lichtfunktion C 17 Change from not active to Blinken links dunkelphase. Makes rear, side 3 LED on the left side flash with park lights on.

[Video - Rear Side Light Marker function mod from former Tiguan](#)

DRL outer tail/inner tail blinker (Dunkelphase aka Urban Joke/Dancing Blinkers)
This comes from my former Tiguan, will take work due to amber signals in the Atlas

***This mod can be performed in different manners, and this is unique to my current setup. If you add the other options listed you will keep your SSPL, but currently will lose 4 Brake Light mod. 4 Brake Light mod tested on priority channel E and while functional during the day or switch set to 0, it defeats this tail light function when the brake is engaged. The inner tail falls to priority E brake light, but when the brakes are released Urban Joke turn signal is back to functioning properly. I removed the 4 Brake Light function from my coding entirely. I did not update the notes below for the 4 Brake Light mod for those that would rather have that over this particular mod. This mod was also tested to ensure that the Outer tail light still functioned as expected during braking at night and can confirm on a Euro Switch that the lights function properly in all positions on the switch.**

***Note the Lichtfunktion channels below include coding from Single Side Parking Light (SSPL) found above on F channel for the Outer Tails.**

Control Unit 09
Security Access
Adaptation

Left Outer Tail:

Leuchte20BR LA71-Lichtfunktion A 20 – Brake Light or Bremslicht

Leuchte20BR LA71-Lichtfunktion B 20 – Blinken links Dunkelphase

Leuchte20BR LA71-Lichtfunktion C 20 – Blinken links Hellphase

Leuchte20BR LA71-Lichtfunktion E 20 – Standlicht Allgemein (Schlusslicht: Positionlicht: Begrenzungslicht)

Leuchte20BR LA71-Lichtfunktion F 20 – Parklicht links (beidseitiges Parklicht aktiviert li & re)

Right Outer Tail:

Leuchte21BR RC8-Lichtfunktion A 21 – Brake Light or Bremslicht

Leuchte21BR RC8-Lichtfunktion B 21 – Blinken rechts Dunkelphase

Leuchte21BR RC8-Lichtfunktion C 21 – Blinken rechts Hellphase

Leuchte21BR RC8-Lichtfunktion E 21 – Standlicht Allgemein (Schlusslicht: Positionlicht: Begrenzungslicht)

Leuchte21BR RC8-Lichtfunktion F 21 – Parking light right

For the inner tails we need to adjust not only light function channels, but we need to adjust the Dimming Direction & Dimmwert level on CD since we are making a change to light function channel C, this is key to making sure it works in all situations (day and night).

Left Inner Tail:

Leuchte23SL HLC10-Dimming Direction CD 23 – change to minimize

Leuchte23SL HLC10-Dimmwert CD 23 – change to 127

Leuchte23SL HLC-Lichtfunktion A 23 – Standlicht allgemein (Schlusslicht: Positionlicht: Begrenzungslicht)

Leuchte23SL HLC-Lichtfunktion B 23 – Blinken links Hellphase

Leuchte23SL HLC-Lichtfunktion C 23 – Blinken links Dunkelphase

Right Inner Tail:

Leuchte24SL HRA65-Dimming Direction CD 24 – change to minimize

Leuchte24SL HRA65-Dimmwert CD 24 – change to 127

Leuchte24SL HRA65-Lichtfunktion A 24 – Standlicht allgemein (Schlusslicht: Positionlicht: Begrenzungslicht)

Leuchte24SL HRA65-Lichtfunktion B 24 – Blinken rechts Hellphase

Leuchte24SL HRA65-Lichtfunktion C 24 – Blinken rechts Dunkelphase

Lower HBA activation speed (Still trying to find items highlighted in red, looks to be hardcoded and not accessible)

Supposedly it's under A5 and you do have to enter security code, but VCDS tells you what it is. Going to look around in 09 since that is where I enabled permanent HBA.

I did NOT change:

"Night vehicle detection activation brightness"

"Night vehicle detection deactivation brightness"

As those are likely the oncoming car headlight luminosity values. I didn't come across any oncoming traffic in my test. So these may need to be tweaked later.

Main_Beam_Assist_Urban_Area_Detection

I set it to OFF, now it works in darkish areas, not just pitch black ones.

Urban_Leaving_Velocity

I did not change.

"Speed threshold for high beam recommendation off"

Set to 10 km/h

"Activation speed for high beam assistant"

Set to 20 km/h

***Update, the above mod appears to be hard coded now. Leaving it in place if someone finds it, but I doubt it. Dynamical low beam appears to assist with this lack of mod (see Exterior Lights above).**