

Coding list Golf 8

Any modification at your own risk!

If the translation is not correct here and there, feel free to send me your suggestions for improvement.

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1. Coding's

1.1 Tested:

1.1.1 Save AirCare setting [SFD: no]

Control unit 08 [Tested SW: 0440-0531]

Adjustments:

Filtering_interior_air_saving:

Filtering_interior_air_saving:

not_active

(Will not be stored)

depending_on_standing_time

(Stored depending on standing time)

active

(Will be stored)

1.1.2 Automatically reduce seat heating to a lower level after a certain time [SFD: no]

Control unit 08 [Tested SW: 0440-0531]

Adjustments:

Time for seat heating power reduction Level 3 to level 2:

param_Time_for_seat_heating_power_reduction_Level_3_to_level_2: 0 min

(From level 3 to level 2 after X minutes, adjust value as desired, 0 = off)

Time for seat heating power reduction Level 2 to level 1:

param_Time_for_seat_heating_power_reduction_Level_2_to_level_1: 0 min

(From level 2 to level 1 after X minutes, adjust value as desired, 0 = off)

1.1.3 Save recirculation setting [SFD: no]

Control unit 08 [Tested SW: 0440-0531]

Adjustments:

Save air recirculation status at terminal 15 off:

Save air recirculation status at terminal 15 off:

Do_not_store

(Will not be stored)

resttime_dependent_storage

(Stored depending on standing time)

storing

(Will be stored)

1.1.4 Enable fan levels „gentle“, „medium“ and „intensive“ [SFD: no]

Control unit 08 [Tested SW: 0462-0531]

Adjustments:

Climate_style:

Climate_style:

display



1.1.5 Save seat heating settings [SFD: no]

Control unit 08 [Tested SW: 0440-0531]

Adjustments:

Für die Fahrerseite:

Seat heating level driver side, saving condition:

param_Seat_heating_level_driver_side,_saving_condition: not_active
(Will not be stored)
10_minutes_activ
(Will be stored for 10 minutes)
active
(Last configuration will be stored)

Für die Beifahrerseite:

Seat heating level passenger side, saving condition:

param_Seat_heating_level_passenger_side,_saving_condition: not_active
(Will not be stored)
10_minutes_activ
(Will be stored for 10 minutes)
active
(Last configuration will be stored)

1.1.6 Change light functions based on light sensitivity [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Lighting_Assist_Adaptation:

Lichtsensorempfindlichkeit: normal (Adjust as desired)

1.1.7 Save high beam assistant settings (on ignition change) [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Fernlicht_assistent:

Fernlichtassistent Reset: not_active

1.1.8 Activate adjustable daytime running lights in the car menu [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Tagfahrlicht:

Tagfahrlicht Aktivierung durch BAP oder Bedienfolge moeglich:



active

1.1.9 Adjustable DWA acknowledgement ton in the car menu (lock and unlock) [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

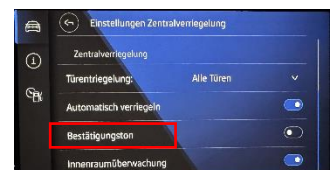
Adjustments:

ZV Quittierungen:

Quittungston_hmi_einstellbar: active

Quittierungston_bei_entriegeln: active

Quittungston_bei_verriegeln: active



Only if there is no alarm system or acknowledgment tone through the horn:

Quittungston_ueber_hupe: active

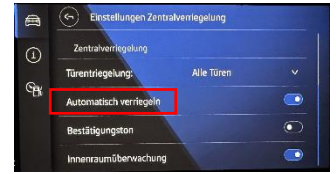
1.1.10 Enable automatic central locking in the car menu [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

ZV_Autolock:

ZV_autolock_autounlock_hmi: adjustable



1.1.11 Deactivate warning sound when opening the door with ignition [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Clamp_Control:

Ignition_Active_Message: No_display

1.1.12 Dim ambient lighting to a higher level [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Suchbeleuchtung_allgemein:

KL58 Einschalten mit Rampe: active

1.1.13 Rear lights as daytime running lights [SFD: yes]

Control unit 09 [Tested SW: 0161]

Adjustments:

Tagfahrlicht:

Tagfahrlicht-Dauerfahrlicht aktiviert zusaetzlich Standlicht: active

1.1.14 Deactivate rear windows wiper intermittent wipe function [SFD: yes]

Control unit 09 [Tested SW: 0161]

Adjustments:

Heckwischer_steuerung:

Traenenwischen Heck: not_active

1.1.15 Automatic door unlocking when DSG is in park position [SFD: yes]

Control unit 09 [Tested SW: 0161]

Adjustments:

ZV_Autolock

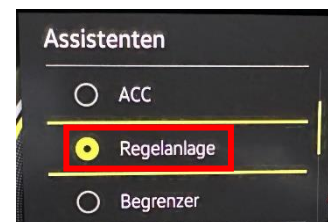
automatic_unlock_nar: active

1.1.16 Activate cruise control (No distance regulation) [SFD: no] [Login Code: 20103]

Control unit [Tested SW: 0395]

Coding:

Cruise_control_mode: activated



1.1.17 Disable prevention of overtaking on the right (ACC) [SFD: no] [Login Code: 20103]

Control unit 13 [Tested SW: 0395]

Coding:

Overtaking_right_prevention: deactivated

1.1.18 Adjust ACC 1 km/h increments [SFD: no] [Login Code: 20103]

Control unit 13 [Tested SW: 0395]

Coding:

Operation_mode: Operation_mode_2

(Tap +/- 1 km/h, press a little longer for +/- 10 km/h)

1.1.19 Additional view in the AID (Active Info Display) [SFD: no]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Unlock_views:

view_6:

activ



1.1.20 Golf 8 GTE (Hybrid) view in the AID (Active Info Display) [SFD: no]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Unlock_views:

view_7:

activ



1.1.21 Golf 8 GTI view in the AID (Active Info Display) [SFD: no]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Unlock_views:

view_8:

active



1.1.22 Golf 8 R view in the AID (Active Info Display) [SFD: no]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

unlock_views:

view_9: active



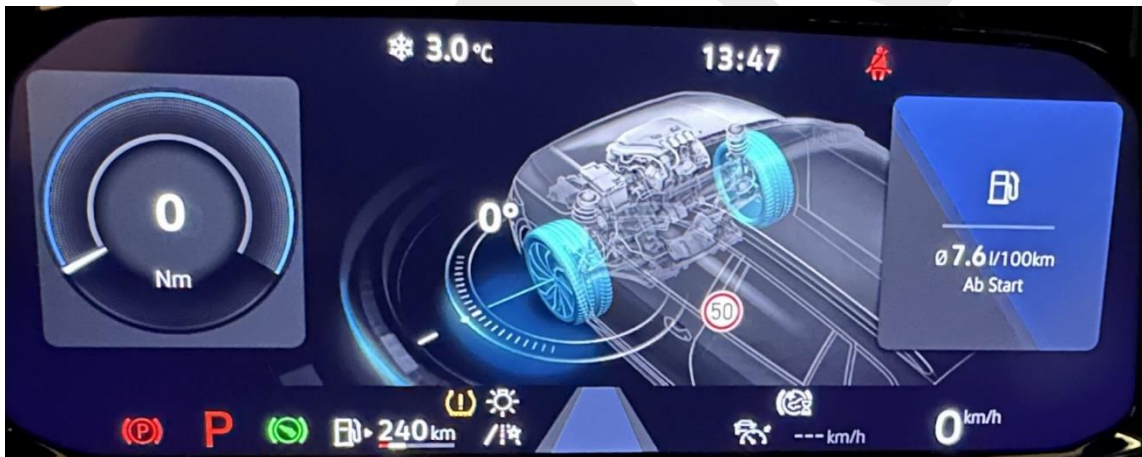
1.1.23 Off-road view in the AID (Active Info Display) [SFD: no]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Unlock_views:

view_10: active



1.1.24 Steering angle display in the AID info window [SFD: yes]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Offroad:

Offroad: yes

(May need to be activated in the AID menu)



1.1.25 Boost pressure display in the AID info window [SFD: yes]

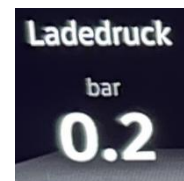
Control unit 17 [Tested SW: 3460-3470] (nicht GTE)

Adjustments:

Displayable_content_configuration:

Boost_Pressure: active

(May need to be activated in the AID menu)



1.1.26 G-force display in the AID info display window [SFD: **yes**]

Control unit 17 [Tested SW: 3460-3470]

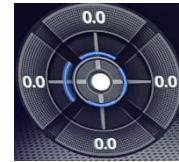
Adjustments:

Displayable_content_configuration:

G_Meter:

active

(May need to be activated in the AID menu)



1.1.27 Torque display in the AID info display window [SFD: **yes**]

Control unit 17 [Tested SW: 3460-3470] (not GTE)

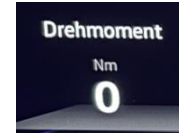
Adjustments:

Displayable_content_configuration:

Engine_Torque:

active

(May need to be activated in the AID menu)



1.1.28 Engine power display in the AID info display [SFD: **yes**]

Control unit 17 [Tested SW: 3460-3470] (not GTE)

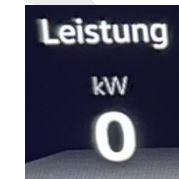
Adjustments:

Displayable_content_configuration:

Engine_Power:

active

(May need to be activated in the AID menu)



1.1.29 Transmission temperature display in the AID info window [SFD: **yes**]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Displayable_content_configuration:

Transmission_Temperature:

active

(May need to be activated in the AID menu)



1.1.30 Lap timer with lap counter [SFD: **yes**]

Control unit 17 [Tested SW: 3460-3470]

Coding:

Laptimer:

yes

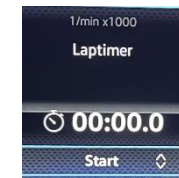
Lap counter in conjunction with the lap timer:

Adjustments:

Displayable_content_configuration:

Laptimer:

active



1.1.31 Refuelling amount in the AID (Active Info Display) [SFD: **no**]

Control unit 17 [Tested SW: 3460-3470]

Coding:

Refuel_volume:

yes

(May need to be activated in the AID menu)



1.1.32 Change max speed of the speedometer [SFD: **yes**]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Speedometer_final_value:

Speedometer_final_value:

variant_0 = 260km/h
variant_1 = 280 km/h
variant_2 = 240 km/h
variant_3 = 300 km/h
variant_4 = 320 km/h

1.1.33 Customize logo in the AID (Active Info Display) [SFD: no]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Logo:

logo:

no_Logo = not logo



Logo_1 = R



Logo_2 = R alternative style



Logo_3 = GTE



Logo_4 = GTI



Logo_5 = GTD

Some logos only appear in the Golf 8 R view starting from a speedometer with part number 5H0920340B!

1.1.34 Deactivate seatbelt warning [SFD: yes]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Deactivate_belt_warning:

State:

yes

1.1.35 Change outside temperature warning threshold in the AID (Active Info Display) [SFD: no]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

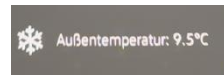
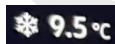
outside_temperature:

p_ice_warning_exit_temperature:

6° (Adjust as desired, maximum 10°C)

p_ice_warning_entry_temperature:

4° (Adjust as desired, maximum 10°C)



1.1.36 Disable beeping when engaging reverse gear (DSG in „R“) [SFD: no]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Acoustics_driving_position_R:

Acoustics_driving_position_R:

not_active

(Only works after ignition change)

1.1.37 Disable animation when switching AID displays [SFD: yes]

Control unit 17 [Tested SW: 3470]

Adjustments:

Locking_display_content:

Locking_decoration_animation:

yes

1.1.38 Deactivate start-stop system [SFD: **yes**]

Control unit 19 [Tested SW: 7084-7312]

Adjustments:

Slave_component_list:
Battery Monitoring Control Module: no

Notice:

Does not work on vehicles with a 45V electrical system.

Also, an error remains in the gateway:

„Subsystem multiple plug identified“

No error message appears in the AID or infotainment system.

1.1.39 Navigation map on both AID and infotainment display simultaneously [SFD: **yes**]

Control unit 5F [Tested SW: 1803-1941]

Adjustments:

Dashboard_Display_Configuration:
ability_switch_nav_maps: no
navigation_map_compression_mode: H264
navigation_map_resolution: 1
navigation_map_transmission_mode: IP_streaming

Alternatively:

navigation_map_resolution: 2
navigation_map_transmission_mode: MOST_High

(Works only after restarting the infotainment system)

1.1.40 Deactivation of input blocking during driving in the navigation system [SFD: **yes**]

Control unit 5F [Tested SW: 1803-1941]

Adjustments:

Disabled_menu_contents:
FB_MEDIA_19: non_blocked
FB_MISC_14: non_blocked
FB_MISC_19: non_blocked
FB_MISC_18: non_blocked
FB_MISC_31: non_blocked
FB_MISC_29: non_blocked
FB_MISC_25: non_blocked
FB_MISC_33: non_blocked
FB_MISC_44: non_blocked
FB_MISC_41: non_blocked

1.1.41 Driving instructor mode [SFD: **yes**]

Control unit 5F [Tested SW: 1899-1941]

Adjustments:

Car_Function_Adaptations:
menu_display_driving_school_over_threshold_high: activated
menu_display_driving_school: activated



1.1.42 Automatic opening/closing of windows when opening/closing door [SFD: **no**]

Control unit 42 [Tested SW: 0330-0350]

Coding:

short_drop: active

Control unit 52 [Tested SW: 0330-0350]

Coding:

short_drop: active

1.1.43 Adjust lane-keeping assistant intervention point [SFD: no]

Control unit A5 [Tested SW: 3129-3403]

Coding:

Point_of_intervention:	early (intervenes early)
	late (intervenes late)
	early_setting_over_menu (Intervenes early, no settings in the menu)
	late_setting_over_menu (Intervenes late, no settings in the menu)

1.1.44 Save lane-keeping assistant settings (on ignition change) [SFD: no]

Control unit A5 [Tested SW: 3129-3403]

Coding:

Configuration_for_lane_departure_warning_Kl15:	last_setting
--	--------------

1.1.45 Travel-Assist steering intervention, which is necessary to make the message "Take over steering" disappear, adjustable via Car-Menu [SFD: no]

Control unit A5 [Tested SW: 3129-3403]

Coding:

HC_Warn_Intensity:	Setting_over_menu
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1.1.46 Activate acceleration measurement 0-100km/h, 80-120km/h and 1/4 mile [SFD: yes]

Control unit 4B [Tested SW: 1447]

Coding:

Function_activation_speed_up_measuring:	activated
Speed_up_measuring_0_to_100_km_per_h:	activated
Speed_up_measuring_80_to_120_km_per_h:	activated
Time_measuring_for_0_to_QuaterMile:	activated

Control unit 17 [Tested SW: 3470]

Adjustments:

Displayable_content_configuration:	
Acceleration_measurement:	display



Attention: After the coding has been changed in control unit 4B, a basic adjustment of the headlights must be performed!

It doesn't seem to work for some people. I'm currently still searching for the cause. It seems to be related to the software version of the dashboard. Probably only at revision B, but not confirmed yet.

1.1.47 Adjust start button illumination [SFD: no] [Login Code: 10587]

Control unit B7 [Tested SW: 0725]

Adjustments:

DevCod_ Search lights:

Suchbeleuchtung_ZAT_Beleuchtung_SES_Variante_aktiv:	activated (LED = dim)
	not_activated (LED = bright)
Suchbeleuchtung_ZAT_SES_Mode:	activated (LED flashing)
	not_activated (LED = on)

1.1.48 Comfort open-close sunroof with remote control [SFD: no]

Control unit CA [Tested SW: 0040]

Adjustments:

Control_unit_for_sun_roof_convenience_functions:

Convenience_opening_target_attitude:	sliding_position
--------------------------------------	------------------

1.1.49 Adjust or deactivate engine sound generator [SFD: no]

Control unit A9 [Tested SW: 0001]

Adjustments:

Loudness_actuator_for_structure_borne_sound:	0-100% (0 = off, 1-100% = volume)
--	-----------------------------------

1.2 Untested:

1.2.1 Deactivate online unlocking of the central locking [SFD: yes]

Control unit 09 [Tested SW: 0161]

Adjustments:

OCU:

Remote_Unlock_Lock: not_active

(Can be coded but cannot be tested by me)

1.2.2 Enable garage door opener [SFD: ???]

Control unit 09 [Tested SW: 0161]

Adjustments:

UGDO:

ugdo_transmitter: installed

ugdo_via_mmi_configurable: active

Control unit 5F [Tested SW: 1941]

Adjustments:

Car_Function_List_BAP:

UGDO_0x14_msg_bus: activated

UGDO_0x14: clamp_15

Car_Function_Adaptations:

menu_display_ugdo_over_threshold_high: activated

menu_display_ugdo: activated

1.2.3 30 ambient colors [SFD: ???]

Control unit 09 [Tested SW: 0161]

Adjustments:

Interior_light_hmi_config:

Hmi_ambient_colors_fod_bitmask: 3FFFFFFF

Hmi_contour_colors_fod_bitmask: 3FFFFFFF

1.2.4 Disable warning that the lights are turned off [SFD: ???]

Control unit 09 [Tested SW: 0161]

Adjustments:

Fahrlichthinweis:

Fahrlicht_Hinweis_mehrfach: not_active

Fahrlichtwarnung_Hinweis_Konfig: kein_Hinweis

1.2.5 Change timing of upcoming service notification [SFD: ???]

Control unit 17 [Tested SW: 3470]

Adjustments:

Service_early_warning_in_days:

time: 30d (Adjust as desired)

1.2.6 Open Trunk with Vehicle Key [SFD: ???]

Control unit 09 [Tested SW: 0161]

Adjustments:

ZV Heck:

Direktauswurf_heckdeckel: active

1.2.7 Improve Sound Quality without Harman/Kardon Sound System [SFD: ???]

Control unit 5F [Tested SW: 1941]

Adjustments:

function_configuration_sound:
brand_sound: Beats

1.2.8 Keep lights off as it gets dark [SFD: ???]

Control unit 09 [Tested SW: 0161]

Adjustments:

Licht_bedienung:
LTM_BGL_Wegabhängig: not_active
LTM_BGL_Geschwindigkeitsabhängig: not_active
LTM_BGL_Geschwindigkeitsabhängig_Parameter: not_active
LTM_GlobalOFF_Wegabhängig: not_active
LTM_GlobalOFF_Geschwindigkeitsabhängig: not_active
LTM_GlobalOFF_Geschwindigkeitsabhängig_Parameter: not_active
Beleuchtung_LTM_Auto_LED_58xt_logik: not_active
Beleuchtung_Auto_LED_bei_Nebelfunktion: not_active

1.2.9 Adjust seat heating temperatures [SFD: ???]

Control unit 08 [Tested SW: 0531]

Adjustments:

Seat_Heating_Level_Adaptation:
Seat_heating_stage_1_lower_threshold: 20,0 [UN]_°C
Seat_heating_stage_1_upper_threshold: 20,5 [UN]_°C
Seat_heating_stage_2_lower_threshold: 20,0 [UN]_°C
Seat_heating_stage_2_upper_threshold: 20,5 [UN]_°C
Seat_heating_stage_3_lower_threshold: 33,0 [UN]_°C

(Adjust values as desired. "lower" is the activation temperature, and "upper" is the deactivation temperature.)

n3oka

1.3 No function or changes:

1.3.1 Display ventilation level in „Auto“ mode [SFD: no]

Control unit 08 [Tested SW: 0440-0531]

Adjustments:

Blower display during auto mode:

Blower display during auto mode: activated

(No changes to the display in the climate menu are noticeable)

1.3.2 Display lap timer on the head-up display [SFD: no]

Control unit 82 [Tested SW: 2032]

Adjustments:

Laptimer: yes

(No function recognizable in the head-up display)

1.3.3 Change comfort flashing cycles [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Light_control:

Komfortblinken Blinkzyklen: 3

(Anchored in the dataset of the BCM, see [3.4](#))

1.3.4 Make the turn signals flash when locking and unlocking the vehicle [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Dynamisch Blinken:

ZV_Blinken_zu: active (oder not_active für deaktiviert)

ZV_Blinken_auf: active (oder not_active für deaktiviert)

(No changes recognizable, maybe linked in the dataset)

1.3.5 Adjust coming home and leaving home [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Coming-Home_and_Leaving-Home:

Menueeinstellung CHO LHO: Menuesteuerung aktivieren

Coming-Home_and_Leaving-Home:

Menueeinstellung Leaving-home Zeit per BAP: 10 seconds (bis 90 sec)

Menueeinstellung Cominghome: 10 seconds (bis 90 sec)

Menueeinstellung Cominghome bei Tag: 10 seconds (bis 90 sec)

Menueeinstellung Leaving-home bei Tag: 10 seconds (bis 90 sec)

(No changes recognizable, maybe linked in the dataset)

1.3.6 Coming home and leaving home also during the day (light switch position on “Auto”) [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Coming-Home_and_Leaving-Home:

Tagfahrlicht mit CHO bei Tag in Stellung AUTO: active

Tagfahrlicht mit LHO bei Tag in Stellung AUTO: active

(No changes recognizable, maybe linked in the dataset)

1.3.7 Light strip (between the headlights) as daytime running lights [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Until model year CW45 2020:

Leuchte 2 SL VL B20:	
Lichtfunktion B 2:	Tagfahrlicht
Leuchte 3 SL VR B32:	
Lichtfunktion B 3:	Tagfahrlicht

From model year CW48 2020:

Leuchte 31 AMBL 1 C61:	
Lichtfunktion B 31:	Tagfahrlicht
Leuchte 32 AMBL 2 C35:	
Lichtfunktion B 32:	Tagfahrlicht

(No changes recognizable, maybe linked in the dataset)

1.3.8 Deactivate light strip (between the headlights) [SFD: yes]

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Bis BJ KW48 2020:

Leuchte 2 SL VL B20:	
Lichtfunktion A 2:	not_active
Lichtfunktion D 2:	not_active
Leuchte 3 SL VR B32:	
Lichtfunktion A 3:	not_active
Lichtfunktion D 3:	not_active

Ab BJ KW48 2020:

Leuchte 31 AMBL 1 C61:	
Lichtfunktion A 31:	not_active
Lichtfunktion D 31:	not_active
Leuchte 32 AMBL 2 C35:	
Lichtfunktion A 32:	not_active
Lichtfunktion D 32:	not_active

(No changes recognizable, maybe linked in the dataset)

1.3.9 Switch central locking with key even when ignition is on [SFD: yes]

Control unit 09 [Tested SW: 0161]

Adjustments:

ZV allgemein:	
Funk_bei_Kl15_ein:	active

(No changes recognizable)

1.3.10 Automatic locking (if forgetting to lock the car) [SFD: yes]

Control unit 09 [Tested SW: 0161]

Adjustments:

Automatische_Funktionen:	
Automatisches_Verriegeln_aktiv:	activated

(No changes recognizable)

1.3.11 Torque distribution display in the AID info window [SFD: yes]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Displayable_content_configuration:

Torque_Distribution: active

(Display is present, but no functionality recognizable, probably only on Golf R)



1.3.12 Display driving profile in the AID (Active Info Display) [SFD: yes]

Control unit 17 [Tested SW: 3460-3470]

Adjustments:

Displayable_content_configuration:

Display_FPA: display

(No changes recognizable)

1.3.13 Extended scales in the speedometer [SFD: no]

Control unit 17 [Tested SW: 3460-3470]

Coding:

Tachometer_erweiterte_Skalenteilung: yes

(No changes recognizable)

1.3.14 Display images from USB stick [SFD: yes]

Control unit 5F [Tested SW: 1899-1941]

Adjustments:

function_configuration_media:

picture_viewer: on

(Cannot be successfully coded)

1.3.15 Welcome tone [SFD: yes]

Control unit 5F [Tested SW: 1899-1941]

Adjustments:

function_configuration_audio:

welcome_sound: on

function_configuration_sound:

vehicle_leaving_sound: activated

vehicle_readiness_sound: activated

Control unit 47 [Tested SW: 4319]

Adjustments:

function_configuration_audio:

welcome_sound: on

(No changes recognizable)

1.3.16 Off-road monitor in the HMI [SFD: yes]

Control unit 5F [Tested SW: 1941]

Adjustments:

Car_Function_Adaptations:

menu_display_compass_over_threshold_high: activated

menu_display_compass: activated

Car_Function_List_BAP:

compass_0x15_msg_bus: Databus_Infotainment

compass_0x15: activated

(Cannot be coded)

1.3.17 Connect Bluetooth headphones [SFD: yes]

Control unit 5F [Tested SW: 1941]

Adjustments:

function_configuration_connectivity:

Bluetooth_Headphones: available

(Cannot be coded)

1.3.18 Curve assistant adjustable in the car menu for ACC [SFD: no] [Login Code: 20103]

Control unit 13 [Tested SW: 0395]

Coding:

Curve_assistent_CarMenu: activated

(No changes recognizable)

1.3.19 Speed limiter adjustable in the car menu for ACC [SFD: no] [Login Code: 20103]

Control unit 13 [Tested SW: 0395]

Coding:

Speed_limit_assistent_CarMenu: activated

(No changes recognizable)

1.3.20 Lane-keeping assist intervention point adjustable in the car menu [SFD: no]

Control unit A5 [Tested SW: 3129-3303]

Coding:

Point_of_intervention: early_setting_over_menu

(No changes recognizable)

1.3.21 Activate lane-keeping assist below 60km/h [SFD: no]

Control unit A5 [Tested SW: 3129-3403]

Coding:

Hc_variante: Variante_1

(No function below 60km/h)

1.3.22 GPS Lap timer [SFD: yes]

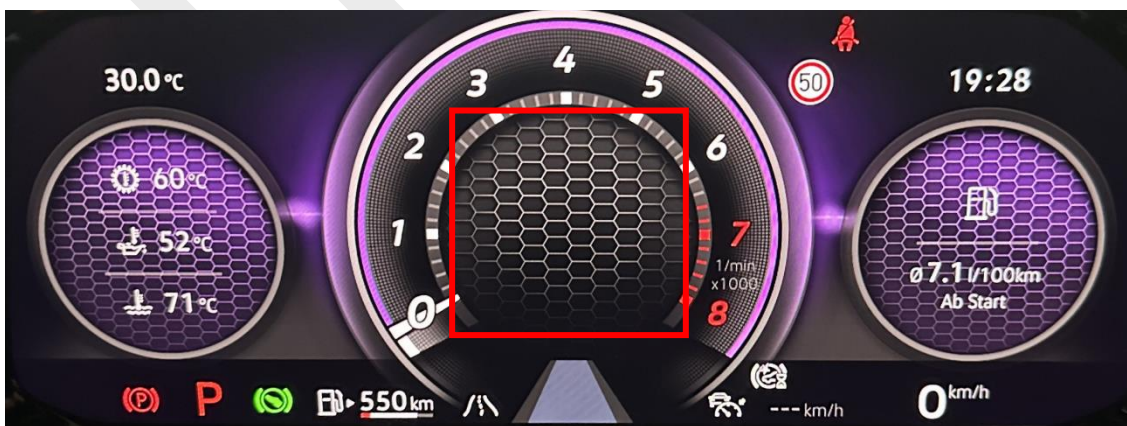
Control unit 4B [Tested SW: 1447]

Coding:

Gps_laptimer_round_route: not_activated

Gps_laptimer_distance_route: not_activated

(DO NOT CODE, otherwise you will have a blank display and won't be able to exit the menu!)



If you have coded it despite the warning, the only solution is to reset the infotainment to factory settings. If you want to connect the vehicle to WeConnect, remove the vehicle from your account and delete the account. Otherwise, the settings will always be loaded from your WeConnect account, and you will have the blank display again.

2 Retrofits

2.1 RDKS [SFD: **yes**]

Complete instructions: https://drive.google.com/file/d/1Dpj_xrEczTPKrVsqrkWGNaY7Tsk2JYeo/view

Coding:

Control unit 19 (Gateway) [SFD: **yes**] [Tested SW: 7083-7084]

Adjust installation list and **add** control unit with number 65 (tire pressure monitoring system)

Control unit 03 (ABS) [SFD: **yes**] [Tested SW: 0131-0134]

Coding:

Byte 25 Bit 2, 3, 4 **deactivate**

Byte 27 Bit 4 **deactivate**

Control unit 17 (Speedometer) [SFD: **yes**] [Tested SW: 3460-3470]

Coding:

Byte 3 Bit 7 **activate** (Tyre pressure monitoring)

Byte 4 Bit 0 **deactivate** (Tyre monitor display)

Byte 11 Bit 2 **activate** (BAP Strecke, Tyre pressure monitoring BAP)

Control unit 5F (Infotainment) [SFD: **Ja**] [Tested SW: 1803-1941]

Adjustments:

Fahrzeug Funktionsliste BAP (Car function list BAP):

Tyre pressure system 0x07 msg bus:

CAN_Infotainment



2.2 45-watt USB module [SFD: no]

Parts list:

Front USB module: 5NA035700
 Connector for front: 8K0973754C (Coupling for old connector 8K0972994B)
 Pins: N 907647.01 (For coupling N 907648.01) MQS contacts
 Rear USB module: 2G6035718

The connector for the front USB module must be replaced, and the wiring must be changed as follows:

Old:			New:		
Pin 1 KL30a	red	Fuse S20	→	Pin 1 KL30a	red Fuse S20
Pin 2 GND	brown	Ground	→	Pin 2 VS5V	green Pin 4 MIB3
Pin 3 KL58d	grey	Signal lighting	→	Pin 3 KL58d	grey Signal lighting
Pin 4 VS5V	grey	Pin 4 MIB3	→	Pin 4 GND	brown Ground



At the rear, the USB module can be replaced 1:1.

2.3 Golf 8 R mode button on the steering wheel (in progress) [SFD: yes]

Required items:

- Buttons from Golf 8 R 1EA959442C or 1EA959442F (successor)
- Original dataset from the vehicle for gateway 0019
- Text editor, for example, Notepad++
- Dongle + software for flashing and unlocking the dataset with SFD

Installation:

1. Disconnect the battery
2. Remove the airbag from the steering wheel
3. Take out the steering wheel trim
4. Remove the button on the left side of the steering wheel
5. Install the new button and reassemble in reverse order
6. Take a short drive after reconnecting the battery, after that turn the ignition on/off and the error messages will be gone

Open the following dataset in a text editor:

```
„DA_0019_7208_5H0_XXXX_010FPA000003_MQB37XXXXNBR.xml“
```

Variables in the filename:

- XXXX → Dataset version
- XXX → Vehicle type (for example, GTI or R)
- 5H0 → Body variant
- NBR → ???

The following code block needs to be modified:

After 3.962 characters, starting from the beginning of the code, the data block (184 characters long) begins with „FA“.

- FA → Start of the code block
- XX → Depending on the vehicle's configuration
- XX → Modify

The last 8 characters form the checksum of the entire data block. It must be recalculated when making changes ([see point 4](#))

```
FA XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX  
XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX  
XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX  
XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX
```

The following needs to be changed:

```
01: XX → FD          02: XX → 01          03: XX → 01  
04: XX → 03          05: XX → 00  
06: XX → 08 (Only in Nürburgring mode)  
07: XX → 07 (Only in Nürburgring mode)  
08: XX → FA          09: XX → 70
```

One must pay attention to the order of driving modes, as otherwise, when switching between driving modes, the sequence may not be correct.

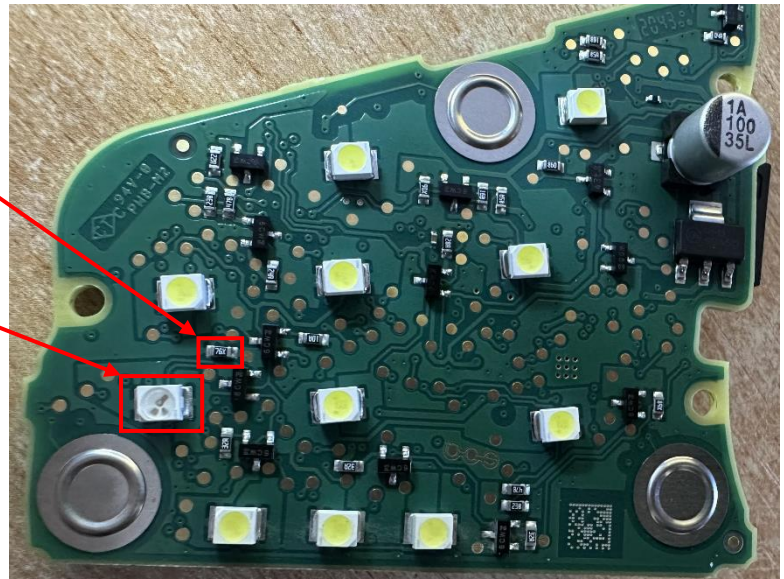
Then upload the modified dataset. The gateway must be unlocked for the upload by using SFD.

The memory address is: **7208** and the login code is: **20103**

Alternatively:

- Engrave the cover with the respective logo. The cover works with every revision and doesn't need to come specifically from the Golf R
- On the circuit board of the Golf 8 R's keypad, replace the following components:

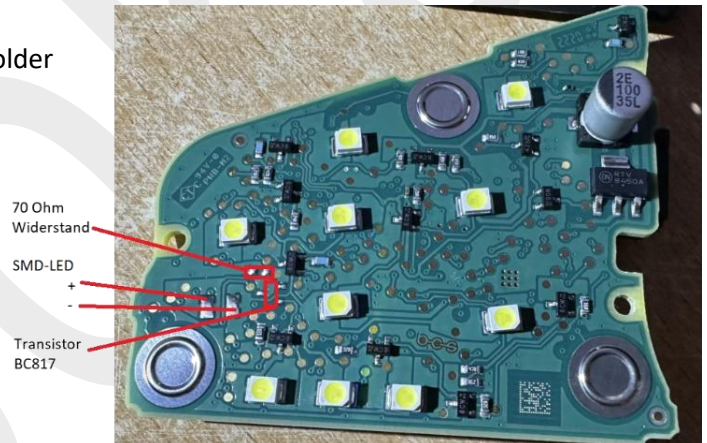
- 1x SMD 0603 resistor 120 ohms
The size of the resistor depends on the chosen LED.
- 1x SMD 3430 LED red
(For GTI, for example)



Alternatively, use your own circuit board and solder the following components:

- 1x SMD 3430 LED red
- 1x SMD resistor 70 ohms
- 1x Transistor BC817

But without flashing the corresponding firmware, it won't work.



Do not spend money on the China versions.

There, the logo was engraved, and the 3 components were soldered. It won't work without the appropriate firmware on the chip. The LED also does not light up.

Datensatzkonfigurator: https://drive.google.com/file/d/1TO-m19At11qjMEcr_ZXCuP6IWgQew0UI/view

Video: <https://youtu.be/ieC6ddiOeJg>



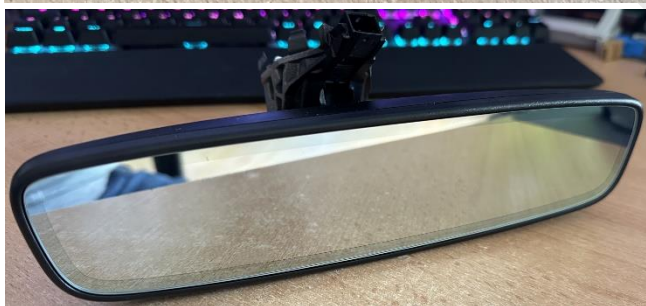
2.4 Frameless interior mirror

Parts list:

3G0 857 511 AC

Additional changes required:

None, the mirror fits electrically 1:1



2.5 Active lane change assistant [SFD: yes]

Requirements:

- Lane-keeping assistant
- Travel assistant
- Lane change assistant
- ACC
- Park steering assistant

Control unit A5 (Front camera) with at least software version **3400**, part number 5WA980653D
Control unit 76 with part number 5WD919298, 5WA919298, or 5R3919298 (12 sensors)

The system is activated above 90km/h and on highways.
The coding shown here only works for European vehicles.

Coding:

Control unit 09 [Tested SW: 0161]

Adjustments:

BCM Fahrerassistenz-Blinkfunktionen:

Travel_Assist_Blinken: active

Control unit 44 [Tested SW: 1040]

Adjustments:

Qfk_ma_function:

Qfk_ma_function: activ

Control unit A5 [Tested SW: 3403]

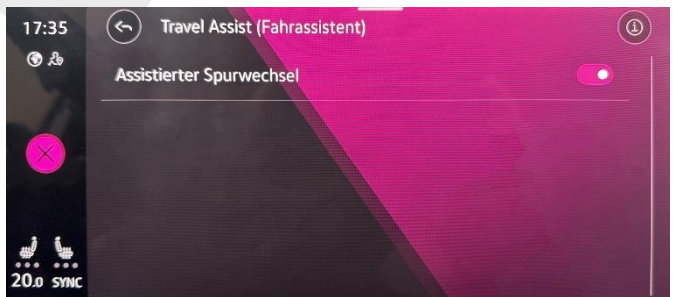
Adjustments:

Hc_variante:

Variante_3

HC_mob_line:

coded



2.6 Unverified retrofits, coding's for the retrofits

2.6.1 Retrofitting light strip [SFD: **yes**]

Parts list (may be incomplete):

Left light strip:	5H0 941 653 C	
Left connector:	4F0 973 702 A	(Connectors, pins and seals are available as a complete set on eBay)
Right light strip:	5H0 941 654 G	
Right connector:	4F0 973 702 F	(Connectors, pins and seals are available as a complete set on eBay)

Wires: 0,35mm² brown (approx. 10m), 0,35mm² yellow/black (approx 5m), 0,35mm² yellow/white (approx 5m)
Textile adhesive tape for the wiring harness

Connector for the right strip:

	Pin 1	brown	Ground	→	Interior ground point
Until MY CW48 2020:	Pin 2	yellow/white	Signal	→	BCM T46b (B) Pin 20
From MY CW48 2020:	Pin 2	yellow/white	Signal	→	BCM T73b (C) Pin 35

Connector for the left strip:

	Pin 1	brown	Ground	→	Interior ground point
Until MY CW48 2020:	Pin 2	yellow/black	Signal	→	BCM T46b (B) Pin 32
From MY CW48 2020:	Pin 2	yellow/black	Signal	→	BCM T73b (C) Pin 61

Coding:

Control unit 09 [SFD: **yes**] [**Tested SW: 0159-0161**]

Adjustments:

Until MY CW48 2020:

Leuchte 2 SL VL B20:

Lasttyp 2:	LED_Kleinleistung_ohne_Open_Load_Diagnose
Lampendefektbitposition 2:	35
Fehlerort mittleres Byte DTC-DFCC 2:	26
Lichtfunktion A 2:	Standlicht
Dimmwert ABC 2:	100
Lichtsteuerung HD ABC 2:	always
Lichtfunktion D 2:	Ambiente Exterior 4
Dimmwert DEF 2:	100

Leuchte 3 SL VR B32:

Lasttyp 3:	LED_Kleinleistung_ohne_Open_Load_Diagnose
Lampendefektbitposition 3:	3F
Fehlerort mittleres Byte DTC-DFCC 3:	27
Lichtfunktion A 3:	Standlicht
Dimmwert ABC 3:	100
Lichtsteuerung HD ABC 3:	always
Lichtfunktion D 3:	Ambiente Exterior 4
Dimmwert DEF 3:	100

From MY CW48 2020:

Leuchte 31 AMBL 1 C61:

Lasttyp 31:	allgemeine_LED_bis_6W
Lampendefektbitposition 31:	35
Fehlerort mittleres Byte DTC-DFCC 31:	26
Lichtfunktion A 31:	Standlicht
Dimmwert ABC 31:	100
Lichtsteuerung HD ABC 31:	always
Lichtfunktion D 31:	Ambiente Exterior 4
Dimmwert DEF 31:	100

Leuchte 32 AMBL 2 C35:

Lasttyp 32:	allgemeine_LED_bis_6W
Lampendefektbitposition 32:	3F
Fehlerort mittleres Byte DTC-DFCC 32:	27
Lichtfunktion A 32:	Standlicht
Dimmwert ABC 32:	100
Lichtsteuerung HD ABC 32:	always
Lichtfunktion D 32:	Ambiente Exterior 4
Dimmwert DEF 32:	100

2.6.2 Rear view camera [SFD: **yes**]

Parts list:

1x Retrofit kit from VW: 5H9 054 634

Coding:

Control unit 19 (Gateway) [SFD: **yes**] [Tested SW: 7083-7084]

Coding:

PaCo_Video_Parksystem: RVC_compact_smart

Control unit 5F (Infotainment) [SFD: **yes**] [Tested SW: 1803-1941]

Adjustments

function_configuration_unit:

RVC_video_input: ethernet

Car_Function_List_BAP:

VPS_0x0B_msg_bus: can_fas
VPS_0x0B: activated

parkingsystem_video_input:

carrier_resolution: 1392x656

function_configuration_rvc:

rvc_low_black_screen_trunk_open: not_active

rvc_low_failsafe: not_active

rvc_low_black_screen_velocity_threshold: not_active

rear_view_low_rvc: not_active

rvc_low_lid_close_delay_time: 0 [UN]_s

rvc_low_videofailure_detection_time: 0

2.6.3 Connect/Code the valve exhaust system to the engine control unit (in progress) [SFD: **???**] **untested**

Coding:

Control unit 01

Coding:

Byte 09 Bit 2 **activate**

2.6.4 Electric exterior mirrors [SFD: **yes**]

Parts list:

Coding:

Control unit 09 [Tested SW: 0159-0161]

Adjustments:

Spiegelverstellung:

Spiegelanklappen_bei_Verriegelung: active

Spiegelabsenkung_bei_Rueckwaertsfahrt: active

Menuesteuerung_Spiegelabsenkung: active

Spiegelverstellung_Synchron: active

Menuesteuerung_synchrone_Spiegelverstellung: active

Menuesteuerung_Funk_Spiegel_anklappen: active

2.6.5 Trailer hitch [SFD: yes]

Parts list:

Coding:

Control unit 19 (Gateway) [SFD: yes]

Adjust installation list and add control unit with the number 69 (trailer).

Control unit 01

Coding:

Byte 5 Bit 4 activate

Control unit 09

Adjustments:

Vernetzung:

Anhaengeranschlussgeraet: installed

Control unit 13

Coding:

Control_module_for_towing_sensor: installed (Byte 1 Bit 7)

Control unit 3C

Coding:

ECU for draw bar: with_ECU_draw_bar (Byte 00 Bit 5)

Control unit 6C

Coding:

equipment_ahk: installed (Byte 02 Bit 0)

Control unit A5

Coding:

AAG: coded (Byte 5 Bit 4)

Control unit 69

Coding:

Byte 1 Bit 0-7

01 -Trailer Connector Diagnostigs active

Und/oder

Byte 3

Bit 0-7

01 -Trailer Connector Diagnostigs active

Depending on what is stated in the manual.

2.6.6 Retrofit Travel assist [SFD: yes]

Requirements: ACC

What is needed:

- Steering wheel with the button on the steering wheel to activate the travel assistant
- Tools for changing the steering wheel
 - o Multi-tooth socket
 - o Large slotted screwdriver
- Dongle + software for coding and unlocking with SFD

Coding:

Control unit 13 [Tested SW: 0395]

Coding:

Capacitive_Steering_wheel:	installed
Travel_Assist:	activated

Control unit A5 [Tested SW: 3403]

Coding:

Klr:	Coded
Emergency_Assist:	EA_Variant_4
Hc_variante:	Variante_2

Control unit 09 [Tested SW: 0161]

Adjustments:

Fahrerassistenz-Blinkfunktionen:

Fahrerassistenz_Blinkfunktionen:	Wechselblinker_Warnblinker_Bremsblinker
Warnblinker_durch_Fahrerassistenz:	active
Hupen_durch_Fahrerassistenz:	active

3 Unlocking VIM (Video in Motion) [SFD: yes]

[Source](#)

You will need:

- [Dataset configurator](#) or text editor with the original dataset.
- With the dataset configurator, you can create a dataset without the original dataset. Simply click on "Export"
- Dongle + software to upload and unlock the dataset with SFD.

With the [dataset configurator](#), you can also easily export a dataset without needing the original one.

The following existing dataset can be imported/edited:

„DA_005F_720D_3G0_ER11_GESCHWABSCHW_EURDWABKW2520.xml“

The following code block can be adjusted:

45523131 00 00 06 02 06 02 0000 000A 06 02 06 02 FF 00 06 02 06 02 06 02 FF 00 0007 71D6FE2D

45523131	-	Dataset version 45523131 = ER11
00	-	Video/Mirrorlink deactivation threshold 00 = 0 km/h Some FW max. 127 km/h
00	-	Video/Mirrorlink hysteresis 00 = 0 km/h
06	-	Setup-Menu (Car-Menu) deactivation threshold 06 = 6 km/h
02	-	Setup-Menu (Car-Menu) hysteresis 02 = 2 km/h
06	-	DAB slideshow deactivation threshold 06 = 6 km/h
02	-	DAB slideshow hysteresis 02 = 2 km/h
0000	-	DAB slideshow update rate 1 0000 = 0 seconds
000A	-	DAB slideshow update rate 2 000A = 10 seconds
06	-	Manual deactivation threshold 06 = 6 km/h
02	-	Manual hysteresis 02 = 2 km/h
06	-	Route guidance deactivation threshold 06 = 6 km/h
02	-	Route guidance hysteresis 02 = 2 km/h
FF	-	Broadcast-Website (Browser) deactivation threshold FF = 255 km/h
00	-	Broadcast-Website hysteresis 00 = 0 km/h
06	-	Destination input deactivation threshold 06 = 6 km/h
02	-	Destination input hysteresis 02 = 2 km/h
06	-	Bluetooth pairing deactivation threshold 06 = 6 km/h Some FW max. 180 km/h
02	-	Bluetooth pairing hysteresis 02 = 2 km/h
06	-	Message input deactivation threshold 06 = 6 km/h
02	-	Message input hysteresis 02 = 2 km/h
FF	-	Radio text (RDS) deactivation threshold FF = 255 km/h
00	-	Radio text (RDS) hysteresis 00 = 0 km/h
0007	-	Radio text update rate 0007 = 7 seconds
71D6FE2D	-	CRC-32 checksum must be recalculated when making changes (See point 6)

In general, the following applies: FF = Always deactivated
FE = Always activated

The new dataset can be compiled as desired.

The infotainment control unit must be unlocked for upload using SFD.

The memory address is: **720D** and the login code is: **20103**

Link for the configurator v1.05:

https://drive.google.com/file/d/1TO-m19At11qjMEcr_ZXCuP6IWgQew0UI/view

4 Changing comfort turn signal cycles to 2 - 5 [SFD: yes]

You will need the following:

- Original dataset from the vehicle for the Body Control Module (BCM) 0009
- [Dataset configurator](#) or a text editor, such as Notepad++
- Dongle + software for uploading and unlocking the dataset using SFD

The following existing dataset can be imported/edited:

„A_009_7237_5H0_ZG05_202002270000_LISIRECAS.xml“

The following code block can be adjusted:

5A 47 30 35 -> Here ZG05

32 30 32 30 30 32 32 37 30 30 30 30 -> Here 202002270000

XX XX XX XX -> CRC32 checksum, must be recalculated for any changes ([See point 6](#))

XX -> Depends on the vehicle's configuration

XX -> Modify (07 = 2, 47 = 3, 87 = 4, C7 = 5)

```
5A 47 30 35 32 30 32 30 30 32 32 37 30 30 30 30 XX XX XX XX XX XX XX
XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX
XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX
XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX
XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX
XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX XX
```

The calculated checksum will be replaced in the modified dataset with the old checksum. [See point 6](#) for the checksum calculation.

Afterwards, upload the modified dataset. The BCM must be unlocked for upload using SFD.

The memory address is: 7237 and the login code is: 20103

For vehicles that are not connected to WeConnect by VW or should no longer be connected:

If the vehicle has not been connected to WeConnect by VW:

After uploading the dataset, the adaptation values in the BCM need to be reset.

STG 09 -> Basic Settings -> "Reset all adaptation values".

If the vehicle has been connected to WeConnect by VW and should no longer be connected:

After uploading the dataset, reset the infotainment to factory settings.

Setup -> Factory settings

For vehicles that should remain connected to WeConnect by VW:

1. Reset the infotainment to factory settings (Do not set up or connect yet!)
2. Remove the vehicle from your [WeConnect](#) account page (WeConnect contract will still remain, **but I cannot confirm the status of any purchases**)
3. Delete the WeConnect account with VW (Go to Settings -> Account Settings -> Delete User Account)
4. Create a new WeConnect account the following day (You can use the same email address as the old account)
5. Add the vehicle using its identification number
6. Enter your new WeConnect account details in the infotainment system (Not before)

Subsequently, the relevant data from the vehicle will be loaded into your account and profile, including the number of turn signal cycles in this case.

Video: <https://youtu.be/rGODKzj3cBU>

Link for the configurator v1.01:
https://drive.google.com/file/d/1TO-m19At11qjMEcr_ZXCuP6IWgQew0UI/view

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5 Start-Stop memory module

5.1 Option 1 (Memory module for the Golf 7 platform)

Possibly not possible for every BCM (Body Control Module), check pins beforehand)
Use the Start-Stop memory module from Golf 7 and connect it to the BCM as follows:

To BCM Pin T73b/60 (button) and Pin T73b/51 (status LED)

Then apply the following coding:

Control unit 09 [Tested SW: 0159-0161] [SFD: ???]

Funktion Cockpittaster 1:

Function_button_1: Start_stopp

5.2 Option 2 (Memory module for the Golf 8 platform)

Module 1: [Link](#)

Manufacturer: Speed Signal

Price: 141,61€ (as of 08.07.2023)

Instructions: [Installation instructions from the manufacturer](#)

Function: Deactivates the start-stop function every time the vehicle is started. Does not respond to changes in the start-stop function when switching driving modes.

Module 2: [Link](#)

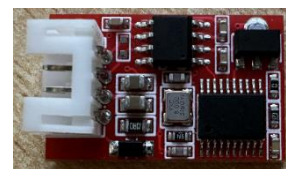
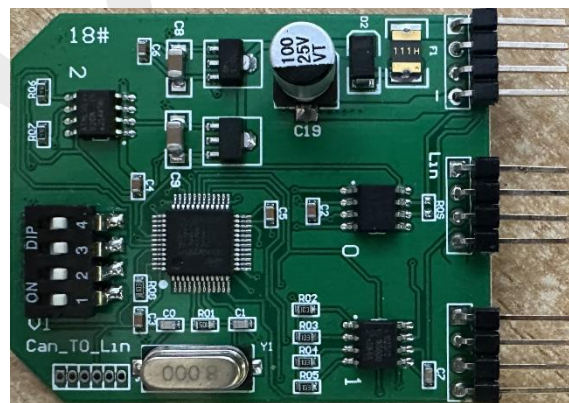
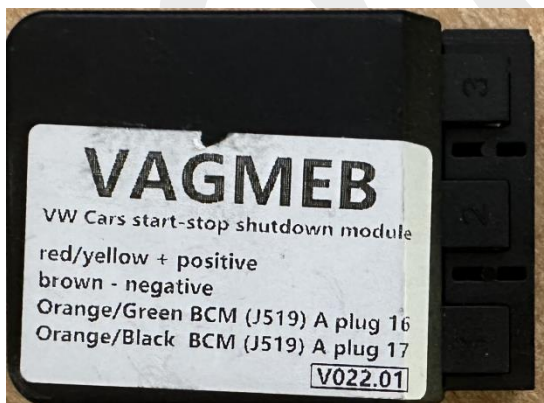
Manufacturer: VAGMEB (China)

Price: Ca. 50€ (Varies)

Instructions: -----

Installation report: For a Cupra Formentor (not by me): [Link](#)

Function: Deactivates the start-stop function every time the vehicle is started. Does not respond to changes in the start-stop function when switching driving modes.



Module 3: [Link](#)

Manufacturer: China module

Price: Ca. 20€ (Varies)

Instructions: -----

Function: Deactivates the start-stop function every time the vehicle is started. Does not respond to changes in the start-stop function when switching driving modes.

Module 4: [Link](#)

Manufacturer: MTM

Price: 249€ (as of 08.07.2023)

Instructions: -----

Function: Unknown

Module 5: [Link](#)
Manufacturer: asr
Price: 199€ (as of 12.10.2023)
Instructions: ---- Will be provided by the manufacturer
Function: [Video from the manufacturer](#) (Saves lane-keeping assist and start-stop settings, must be adjusted via the steering wheel buttons, also works when changing driving profiles).

5.3 Option 3 (Coding)

Solvable via coding, see point [1.1.38](#)

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6 Calculate CRC32 checksum

After a dataset has been modified, the last 8 characters must be replaced with a newly calculated checksum. Otherwise, the changes will not be accepted by the control unit.

There is a calculator available for this purpose, for example, on this website:

<https://www.iddgo.net/en/encrypt/crc>

You need to select „HEX“ for the „Content Type“ and set „CRC-32“ for the „Algorithm“.

The data block, except for the old checksum (last 8 characters), must be entered in the „Input Content“

After clicking the „Calculate“ button, the result will be displayed below as „Check Result(HEX)“.

Input Content

Content Type: Hex Algorithm: CRC-32 Calculate Clear

Polynomial Formula: $x^{32}+x^{26}+x^{23}+x^{22}+x^{16}+x^{12}+x^{11}+x^{10}+x^8+x^7+x^5+x^4+x^2+x+1$

Bit Width: 32 Polynomial Formula(HEX): 04C11DB7

Initial Value(HEX): FFFFFFFF XOROUT(HEX): FFFFFFFF

Reverse: REFIN REFOUT

Check Result(HEX): 7A432149 Copy

Check Result(BIN): 01111010 01000011 00100001 01001001 Copy

Alternative: You can also use <https://www.crcalc.com> for this purpose.

Input: ASCII HEX Output: HEX DEC OCT BIN Show processed data (HEX)

CRC-8 CRC-16 CRC-32

Algorithm	Result	Check	Poly	Init	RefIn	RefOut	XorOut
CRC-32	0x7A432149	0xCBF43926	0x04C11DB7	0xFFFFFFFF	true	true	0xFFFFFFFF
CRC-32/BZIP2	0x50B0EEA7	0xFC891918	0x04C11DB7	0xFFFFFFFF	false	false	0xFFFFFFFF
CRC-32/JAMCRC	0x85BCDEB6	0x340BC6D9	0x04C11DB7	0xFFFFFFFF	true	true	0x00000000

You should copy the 8 characters after „0x“ here.

7 Modifications

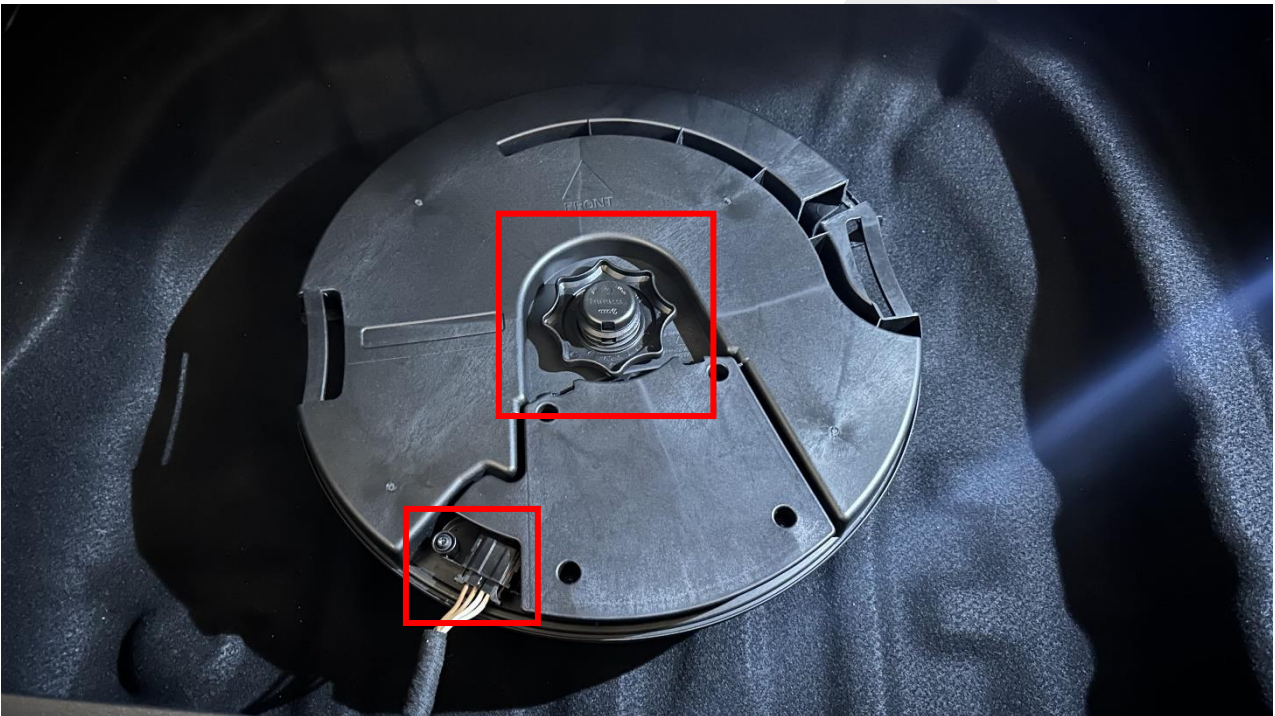
7.1 Enhancing Harman/Kardon OEM subwoofer

By making a simple modification to the subwoofer's enclosure, a significantly better bass can be achieved.

What is needed:

- A vibrating saw (narrow blade) or Dremel with the appropriate tool
- Torx 25 screwdriver
- Something for deburring
- Sandpaper

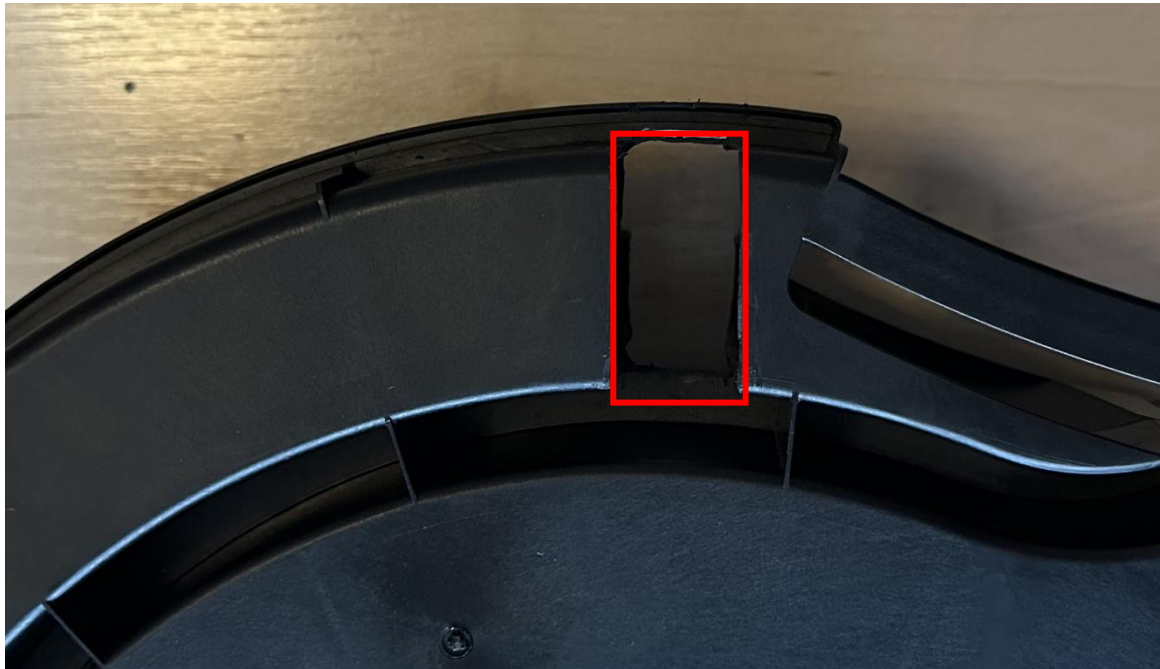
First, the subwoofer must be removed. It is located in the trunk under the floor in the cargo area. Then, disconnect the connector (push both retaining tabs inwards) and loosen the large plastic nut in the center. Now, the subwoofer can be taken out.



Next, the subwoofer must be removed from the enclosure. To do this, simply unscrew 5 screws (Torx 25). Then lift the speaker along with the plastic part.



Only the marked area needs to be cut out:



After cutting, there must be a hole leading into the interior of the enclosure for everything to work correctly:



Deburr everything and slightly sand the cut surfaces.

Clean the enclosure, including the inside. Then, the speaker can be reinstalled and screwed back in place.

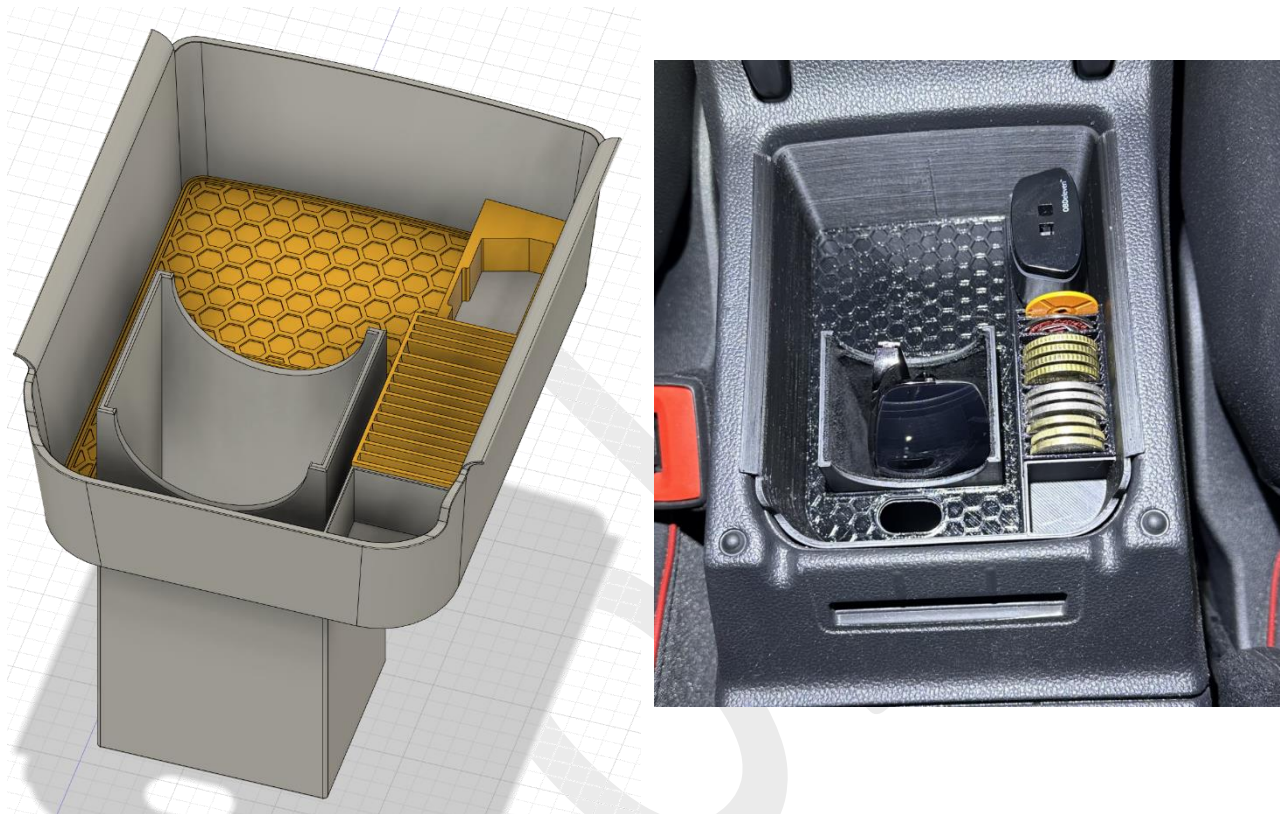
Now the subwoofer can be placed back into the vehicle.

7.2 Sunglasses compartment for the center console

Since VW did not provide a suitable space in the interior of the Golf 8 for sunglasses, I created my own solution and 3D-printed it.

The new sunglasses compartment is placed in the center console, beneath the elbow rest.

Additionally, I incorporated a coin holder and a parking spot for the OBD eleven device.



The grey parts shown here (2 parts) will be 3D-printed with ABS, ASA, or another heat-resistant material (as the interior can reach temperatures of around 60°C in the summer).

The parts shown in yellow will be 3D-printed with TPU to ensure there are no noise issues.

I lined the sunglasses compartment with felt.

Here is the link to the 3D-print files: <https://www.thingiverse.com/thing:6011038>

8 Maintenance

8.1 Releasing the rear electronic brake [SFD: yes]

1. Connect a battery charger
2. Turn on the ignition
3. Access Control unit 03 (ABS)
4. Go to „Basic Settings – 04“
5. Start the brake pad replacement mode

The brake cylinders should now open. They are fully open when there are no sounds (clear buzzing) coming from the brake cylinders.

Once this process is complete:

Select "**Stop**" to the end te process

6. Now, you can turn off the ignition and begin working on the rear brakes.

Upon completion of the word:

1. Turn on the ignition
2. Access Control unit 03 (ABS)
3. Go to „Basic Settings – 04“
4. End the brake pad replacement mode

The brake cylinders should now close. They are fully closed when there are no sounds (clear buzzing) coming from the brake cylinders.

Once this process is complete:

Select "**Stop**" to end the process.

8.2 New battery calibration [SFD: yes]

Control unit 19

Adjustments:

Battery_Adaption (Batterieanpassungen):

Battery_capacity:

Battery_technology:

Battery_manufacturer:

Battery_serial_number:

Enter the battery capacity of the new battery.

Select the corresponding value of the new battery.

Enter the manufacturer of the new battery.

(Maximum 3 letters)

Enter the serial number of the new battery. If the new battery does not have a serial number, simply increment the last digit by 1 (e.g., 1111111111 -> 1111111112))

8.3 Replace the windshield wipers

Front wipers: Bosch Aerotwin A863S 650/450mm

Rear wipers: Bosch A252H 250mm

Bring the front wipers to the service position.

Method 1: Turn on the ignition and immediately turn it off, then push the wiper lever on the steering wheel downwards.

Method 2: Turn on the ignition, go to "Vehicle" in the HMI, then go to "Exterior" in the "Vehicle" tab, and scroll all the way to the right until "Service position" is displayed. Press "Service position" there.

8.4 Key battery replacement

What is needed:

- Pointed tool, such as a small screwdriver or similar
- CR2032 [button cell](#)



Insert a pointed tool between the chrome part and the back of the key and carefully pry it open. After that, the cover can be lifted gently.



Insert the screwdriver between the two retaining tabs, push the battery slightly away from the tabs, and lever it out.



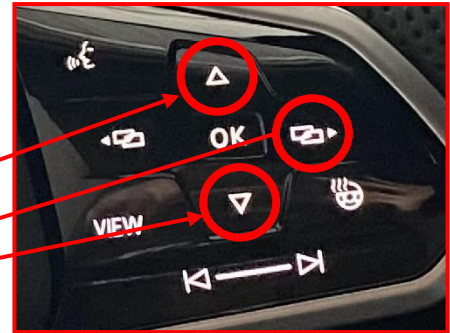
Insert the new battery and snap the cover back on.

Done.

9 Hidden menu's

9.1 Service menu instrument cluster (Reset service):

1. Turn on the ignition
2. Press the following button on the steering wheel once:



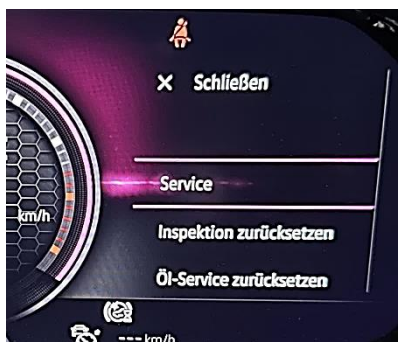
3. Navigate to the menu item „Travel time/distance“



4. Now hold down the following button for about 5 seconds and then release it.

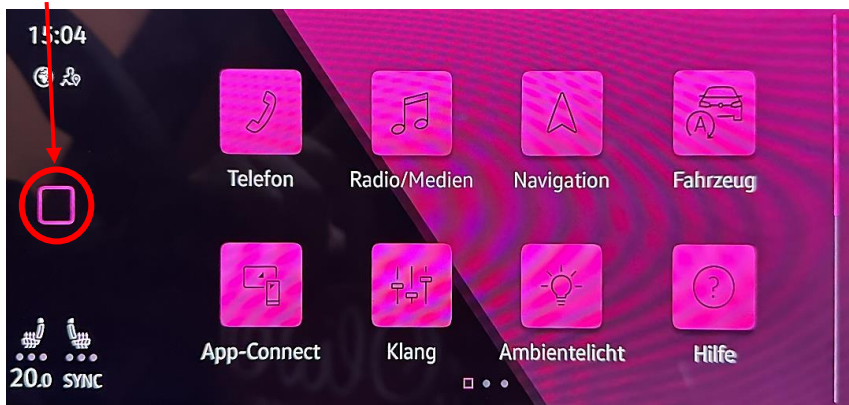


5. Now the service menu appears on the instrument cluster.

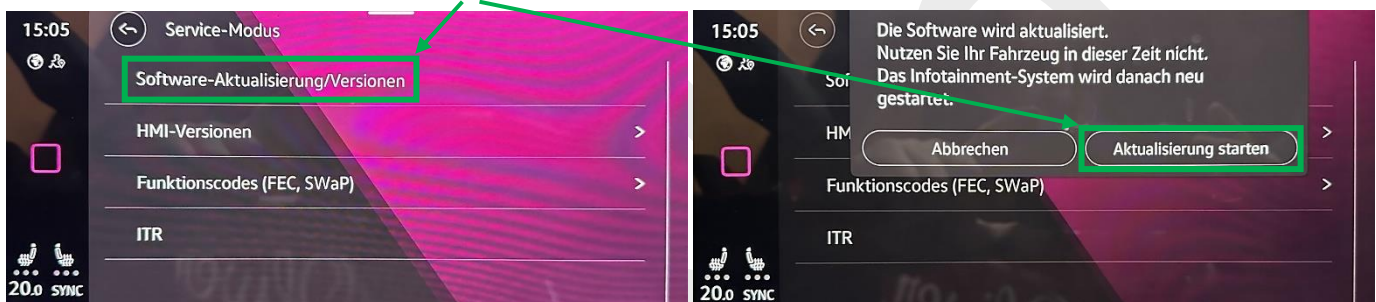


9.2 Service Menu Infotainment System (MIB3) (For Software Update):

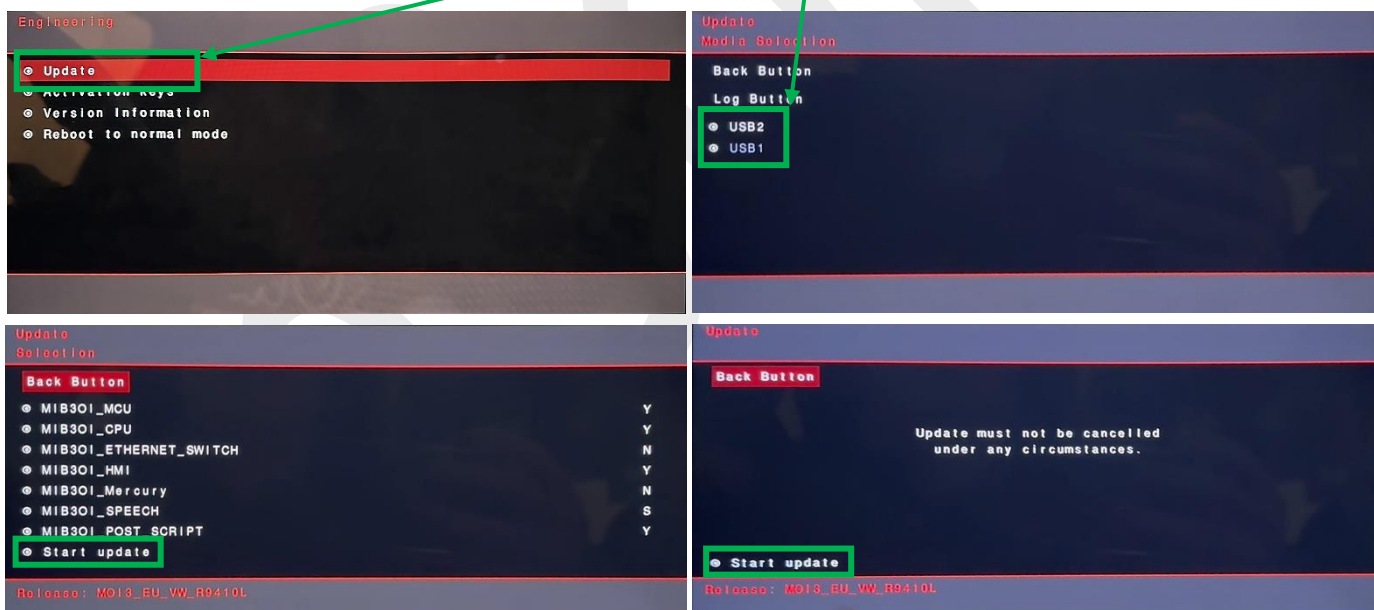
1. Press and hold the menu button for about 3 seconds.



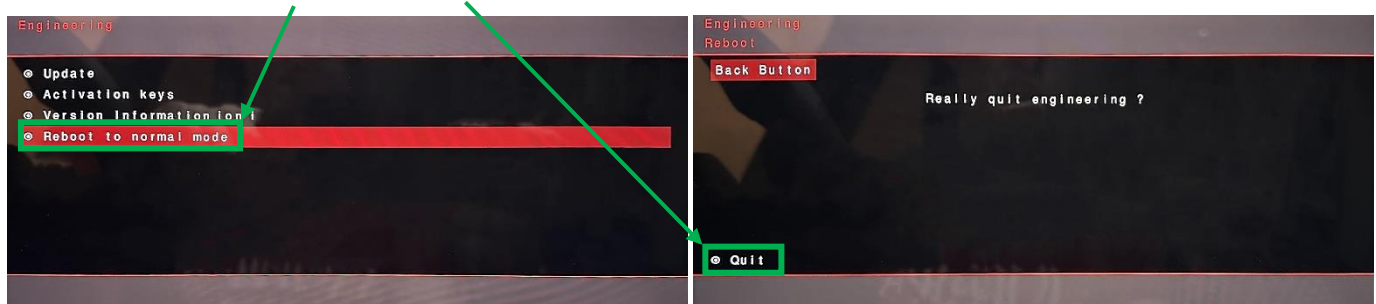
2. Press here for a software update (**only if an update is inserted**)



3. To perform an update, press „Update“ and choose the source



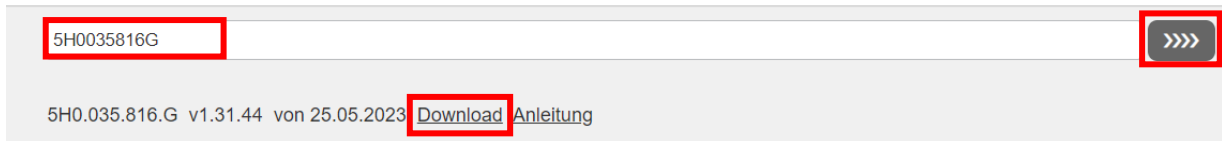
4. Exit the menu and return to the normal user interface.



Video: <https://youtu.be/4AsSbGd3caU>

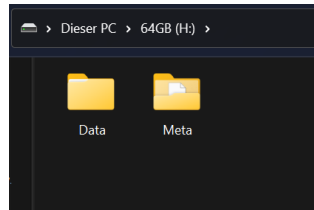
9.3 Radio station data update (Only for European vehicles)

1. Visit the website <https://www.phonostar.de/vw/de/download>
2. Enter the part number of your MIB3 unit below, search, and download.



The last letter practically doesn't matter, as the search result is always the same.

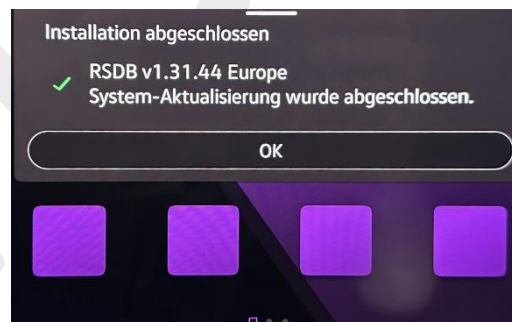
3. Unpack the downloaded file on a USB stick (preferably with a Type C connector or adapter). The USB stick can be formatted in FAT32, exFAT, or NTFS file format.



4. Plug the USB stick into the vehicle.
5. Click on "Start" and wait.



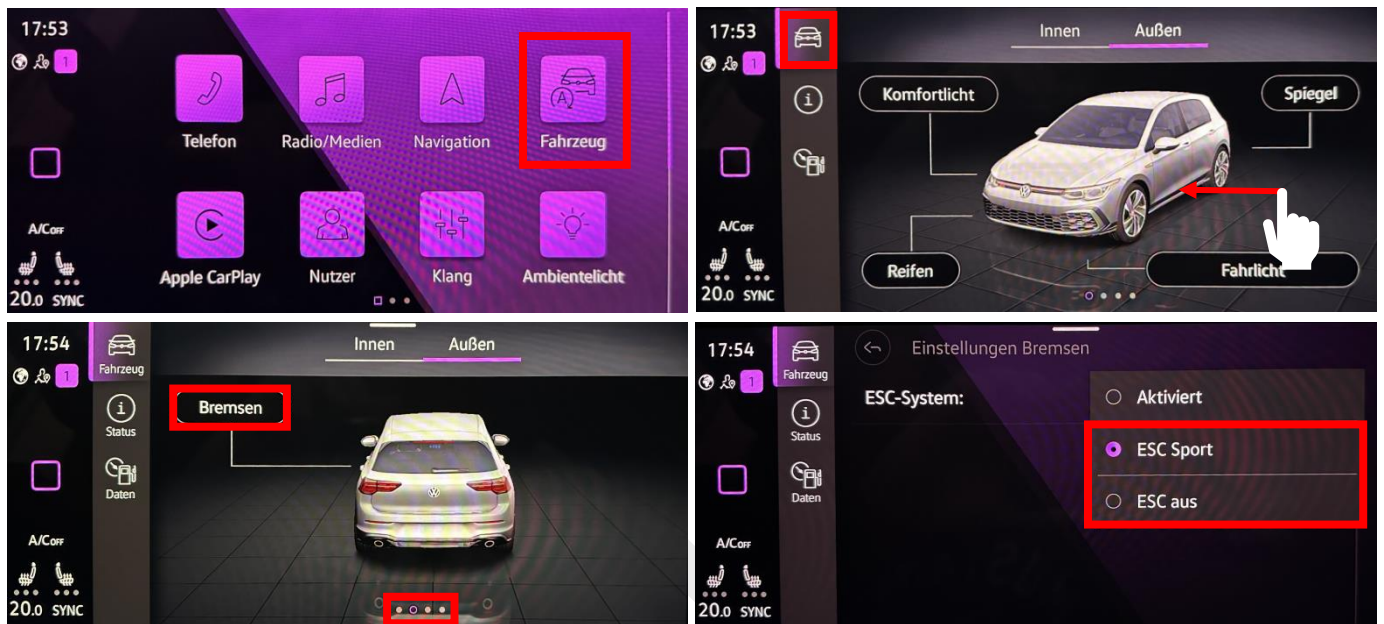
6. After the infotainment system has restarted, the following message should appear:



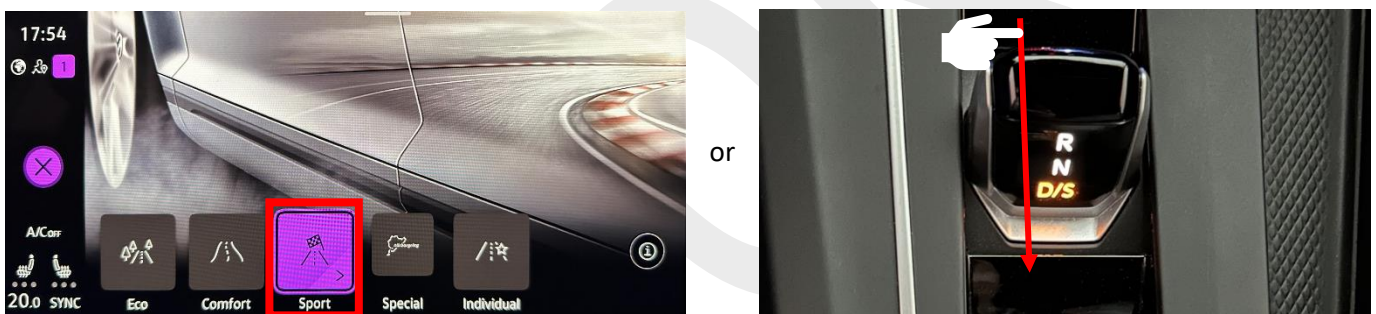
Done

10 Activate launch control

1. Turn off ESC or set it to "ESC-Sport."



2. Select Sport mode



3. Depress the brake pedal with your left foot and press the accelerator pedal with your right foot. The engine will rev up to a maximum of 4,000 RPM, and a message will appear on the dashboard.



When you release the brake pedal, the vehicle will move accordingly.

Note:

Does not work when...

- The engine is too cold.
- The engine is too hot.
- A trailer is attached.
- The steering wheel is not straight (steering angle).
- Manual transmission is present

11 Software updates (13.10.2023)

Updates executable, conditions for each update in red, **NOT SUITABLE FOR NOVICES!!!!!!**

Control unit 01 (Motor)

8Y0906259C SW 0003 → 0004 → 8Y0906259K SW 0001

Control unit 03 (ABS)

5WA614517BJ SW 0131 → 0132 → 5WA614517BL SW 0134 (New dataset, calibration data, and SFD required) → 5WA614517CF SW 0136 (New dataset and SFD required)
5WA614517BE SW 0127 → 5WA614517BL SW 0134 (New dataset, calibration data, and SFD required) → 5WA614517CF SW 0136 (New dataset and SFD required)
5WA614517BF SW 0127 → 5WA614517BM SW 0134 (New dataset, calibration data, and SFD required)

Control unit 08 (Clima)

5WA907007G SW 3140 → 5WA907007R SW 3440
5WA907007J SW 3130 → 5WA907007P SW 3440
5WA907007Q SW 3130 → 5WA907007Q SW 3440
5WA907007M SW 3050 → 5WA907007Q SW 3440
5WA907007S SW 3150 → 5WA907007R SW 3440
5WA907007T SW 3170 → 5WA907007R SW 3440
5WA907727S SW 0240 → 5WA907727AC SW 0440
5WA907727N SW 0340/0341 → 5WA907727AC SW 0440
5WA907727P SW 0340 → 0341 → 5WA907727AD SW 0440 → 5WA907727BC SW 0462 → 5WA907727BB SW 0531

Control unit 09 (BCM)

5WA937086Q SW 0137 → 5WA937086F SW 0159 → 0160 → 0161
Sub control unit 3G0980611 SW 0059 → 0060

Control unit 13 (ACC)

5WA907572B SW 0395 → 5WA907572C x451 (new Dataset)

Control unit 14 (DCC)

1EA907376B SW 0456 → 0457

Control unit 17 (AID instrument cluster)

5H0920340A SW 3460 → 3470

Control unit 19 (Gateway)

5WA907530E SW 7075 → 5WA907530N SW 7310 (new Dataset) → 7312
5WA907530J SW 7083 → 7084 → 5WA907530N SW 7312

Control unit 3C (Lane-Change)

2Q0907686E SW 0276 → 2Q0907685K SW 0289

Control unit 42 (Driver's side door)

5Q0959593K SW 0330 → 5Q0959593L SW 0350

Control unit 44 (Power steering)

5WA907145G SW 1040 → 5WA907145Q SW 1063 (new Dataset)

Control unit 47 (Soundsystem)

5H0035456A SW 4315 → 4319

Control unit 4B (Light)

5WA907338 SW 1372 → 5WA907338B SW 1447 (new Dataset, coding, basic setting, SFD necessary)

Control unit 52 (Passenger side door)

5Q0959592K SW 0330 → 5Q0959592L 0350

Control unit 5F (Infotainment) (Update via USB + fixing SVM errors, OTA available from version 17XX)

5H0035816D 1803 → 5H0035816D 1890 → 1896 → 1898 → 5H0035816K 1899 → 1941

Control unit 6C (rear view camera)

5WA980556B SW 0193 → 5WA980556D SW 0344

Control unit 75 (Emergency call module)

5WA035284C SW 0135 → 0142 (Modification adjustments: Online_Service_Backend_Primary_Hostname:
<https://mod3vkmsmbreg-0.prd.eu.dp.vwg-connect.com/mbb/vehicles/v2/deviceRegistered>
→ 5WA035284F SW 0144

Control unit 76 (PDC)

5WD919298 SW 0230 → 5WA919298B SW 0578 (new Dataset, adjustments und coding need to be reapplied)

Control unit A5 (Front camera)

5WA980653A SW 3129 → 5WA980653C SW 3302 (new Dataset) → 3303 → 5WA980653D SW 3403 (new Dataset)

Control unit B7 (Interface for access and start system)

5WA959436C SW 0706 → 5WA959436J SW 0725

Control unit 8107 (Antenna)

5WA035741B SW 0081 → 0083

12 To do's

- Find the reason for the non-functioning time measurement
- Install WLAN hotspot (pictures will be provided).
- Retrofit electric tailgate in the short-wheelbase sedan (currently in the phase of finding suitable parts).
- Convert coupling antenna (3G0980611) for iPhone 12+ (First antenna already modified over a year ago, unfortunately without documentation).
- Display temperature in the AID from 0°C.
- Implement Area View 360° (still considering, as it requires some effort, but it is possible).

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13 Detonations

If anyone would like to make a donation, you are welcome to do so voluntarily.
I'm adding this here because I have been asked about it several times.

<https://www.paypal.com/paypalme/n3okaa>

<https://www.buymeacoffee.com/n3oka>

Thank you =)