

F-3x/F2x/F1x Cheat Sheet

Technical Documentation

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Activate Active High Beam Assistant (Anti-Dazzle)

Activate High Beam Assistant (Anti-Dazzle) requires the vehicle to be equipped with High Beam Assistant. This enables the system to enable high beams to dodge vehicles by independently moving the high beams around in each headlight without blinding other drivers.

MODIFY THE READ FA - Remove 5AP from the vehicle FA.

VO CODE - FEM_BODY and FLA/KAFAS2 (whichever you are equipped with).

The CAFD modifications of HBA functionality after VO coding in FEM_BODY and FLA/KAFAS2:

- The Speed HBA Enables - FEM_BODY - C_HBA_ENA_V_HI (Value in HEX for speed kph)
- The Speed HBA Disables - FEM_BODY - C_HBA_ENA_V_LO (Value in HEX for speed kph)
- The Speed to immediately enter Highway Mode - FEM_BODY - C_HBA_HGWY_V_HI (Default: Werte=8C) [Hex 8C = Decimal 140 = 140 kph]
- The Speed to leave Highway Mode - FEM_BODY - C_HBA_HGWY_V_LO (Default: Werte=5A) [Hex 5A = Decimal 90 = 90 kph]

It is recommended, if not possibly required, to enable Variable Light Distribution in order to have Active High Beam Assistant become fully active. Instructions are below for enabling Variable Light Distribution.

Activate Variable Light Distribution

Variable Light Distribution requires a FLA/KAFAS camera to be installed in the vehicle. This allows the light beam to adapt according to vehicle speed. When driving in the city, a low

beam is used to better illuminate the road immediately ahead without dazzling oncoming drivers. Then at higher speeds, the headlamps are raised to increase visibility.

MODIFY THE READ FA - Remove 8S4 from the vehicle FA.

VO CODE - FEM_BODY.

Activate iDrive Office

iDrive Office is sometimes disabled based on Country Controllers. This will enable you to have access to the Office Menu which will be located on the main iDrive menu. (This offers Contacts, Email reading, Text Message Receiving, etc.)

MODIFY THE READ FA - Remove Country Controller code (SL8Ax) from the vehicle FA.

VO CODE - CMB_MEDIA and HU_CIC/HU_ENTRY or HU_NBT.

Activate Sport Automatic Transmission

Sport Automatic Transmission (SAT) is a standalone option offered by BMW, with paddle shifters (though not required). This will enable you to have faster, and claimed smoother shifts with your ZF8HP Transmission. This will also enable Sport+, if not already active.

MODIFY THE READ FA - Change 205 to 2TB from the vehicle FA.

VO CODE - EGS, ICM, and KOMBI.

HEX Information: Most, if not, all values (werte) will be in HEX. You need to convert the value from HEX to Decimal to get the true value.

HEX Units: Speed: km/h; Time: Seconds/Hours; Distance: Meters

Angel LED Brightness (Xenon Headlamps or LED Headlamps required)

These adjust the brightness of the Angel LEDs. The values are in Hex. (Ex. 0% = 00, 25% = 19, 50% = 32, 100% = 64)

Module	Section	Function	Value	Default	Comment
FEM_BODY	3062	MAPPING_PARKL_V_L_PWM_LEVEL_1	32	8	Change Parking Light Brightness (Left)
FEM_BODY	3062	MAPPING_PARKL_V_R_PWM_LEVEL_1	32	8	Change Parking Light Brightness (Right)
FEM_BODY	3062	MAPPING_STANDL_V_L_PWM_LEVEL_1	32	8	Change Angel Eye Brightness when headlamps on (Left)
FEM_BODY	3062	MAPPING_STANDL_V_R_PWM_LEVEL_1	32	8	Change Angel Eye Brightness when headlamps on (Right)
FEM_BODY	3062	MAPPING_TAGFAHRL_V_L_PWM_LEVEL_1	32	64	Change Day-Run Light Brightness (Left)
FEM_BODY	3062	MAPPING_TAGFAHRL_V_R_PWM_LEVEL_1	32	64	Change Day-Run Light Brightness (Right)

Cornering Lights (Fog Lamps) & Fog Lamp Welcome Lights

Fog lights illuminate in the steered direction.

Module	Section	Function	Value	Default	Comment
FEM_BODY	3073	C_CLC_ENA	F030enable	F030disable	Enables cornering lights - Part 1
FEM_BODY	3073	C_BLC_ENA	aktiv	nicht_aktiv	Enables cornering lights - Part 2
FEM_BODY	3066	KL_ENABLE_LI	KL_Ein	KL_Aus	Enables cornering lights - Part 3
FEM_BODY	3073	KL_ENABLE_RE	KL_Ein	KL_Aus	Enables cornering lights - Part 4
FEM_BODY	3062	MAPPING_abbiegeL_output	nsw_l	Off	Enables cornering lights - Part 5
FEM_BODY	3062	MAPPING_abbiegeR_output	nsw_r	Off	Enables cornering lights - Part 6
FEM_BODY	3063	MAPPING_NEBELSCHW_L_PART_OF_WL	Soft_On	nicht_aktiv	Turns on Left Fog Lamp with Welcome Lights
FEM_BODY	3063	MAPPING_NEBELSCHW_R_PART_OF_WL	Soft_On	nicht_aktiv	Turns on Right Fog Lamp with Welcome Lights

Day-Running Lights & Activate Rear Fog Lamps

Module	Section	Function	Value	Default	Comment
HU_NBT	3000	Daydriving_light	aktiv	standard	Shows Day-Running Lights option in iDrive Settings, in Lighting
FEM_BODY	3060	TFL_MODUS	Tfl_s (0, A) or Drl_s (0, A, P)	Off	Enables Day-Running Lights. Letters: (0: Off, A: Auto, P: Parking)
REM	3062	MAPPING_TAGFAHRL_H2_L_OUTPUT	sl_2_l	off	Turns On Left Tail-light (Inner Part) on with DRL
REM	3062	MAPPING_TAGFAHRL_H2_R_OUTPUT	sl_2_r	off	Turns On Right Tail-light (Inner Part) on with DRL
REM	3062	MAPPING_TAGFAHRL_H_L_OUTPUT	sl_l	off	Turns On Left Tail-light (Outer Part) on with DRL
REM	3062	MAPPING_TAGFAHRL_H_R_OUTPUT	ls_r	off	Turns On Right Tail-light (Outer Part) on with DRL
FEM_BODY	3060	NSL_Verbaut	Verbaut	Nicht Verbaut	Activate Rear Fog Lamp Switch - Part 1
REM	3063	Mapping_Nebelschlussl_L_output	nsl_l	off	Activate Rear-Left Fog Lamp - Part 2
REM	3063	Mapping_Nebelschlussl_L_Function	nebelschlusslicht	nebelschlusslicht	Activate Rear-Left Fog Lamp - Part 3
REM	3063	Mapping_Nebelschlussl_R_output	nsl_r	off	Activate Rear-Right Fog Lamp - Part 4
REM	3063	Mapping_Nebelschlussl_R_Function	nebelschlusslicht	nebelschlusslicht	Activate Rear-Right Fog Lamp - Part 5

Instrument Cluster

6WA Cluster is the Extended Instrument Cluster

Module	Section	Function	Value	Default	Comment
KOMBI	3000	BC_AUTORESET_ZEIT	User Choice	4h (werte = 04)	Trip Computer auto-reset time. Value in HEX for hours (00 = 0 hours, FF = Never)
KOMBI	3000	BC_DIGITAL_V	aktiv	nicht_aktiv	Adds the vehicle's current speed to the BC cycle list (Displays on KOMBI screen)
KOMBI	3000	BC_V_KORREKTUR	nicht_aktiv	aktiv	Turns off speed correction and displays actual speed.
KOMBI	3000	BMW_LOGO	mpm	ag	Changes KOMBI/HUD startup to M/// Performance. (Shows M550d on updated cars.)

KOMBI	3000	GPS_UHR (Intended for HU_CIC cars)	aktiv	nicht_aktiv	Sets the clock via GPS signal. (Needs the clock to be within 2 min. of the GPS time)
KOMBI	3000	MSA_VERFUEGBARANZEIGE_ENABLE	nicht_aktiv	aktiv	Enables/Disables the "Auto Start-Stop Off" notification in KOMBI
KOMBI	3007	DIM_NACHT_EIN	werte = FF	werte = 32	Changes orange night colors of KOMBI to be white at night (No Navi Night Switch too)
KOMBI	3000	FDS_MENUE_TEXT_1/2/3/4	menue_3	menue_4	Enables Image of Sport + on KOMBI
KOMBI	3000	FDS_MENUE_SIGNAL_1/2/3/4	menue_3	menue_4	Enables Image of Sport + on KOMBI
KOMBI	3003	SLD_ENABLE	aktiv	nicht_aktiv	Enables LIM Function. (Cruise Control 'Set' button acts as 'LIM' button) (Part 1)
ICM	3000	SLD_Funktion	aktiv	nicht_aktiv	Enables LIM Function. (Cruise Control 'Set' button acts as 'LIM' button) (Part 2)
ICM	3000	C_Umschaltung_ACC_DCC	zugelassen	unterdruecken	Enables LIM Function. (Cruise Control 'Set' button acts as 'LIM' button) (Part 3)
ICM	3000	LDM_SET_Taste	nur_SET__O	SET_und_aktivieren__IO	Enables LIM Function. (Cruise Control 'Set' button acts as 'LIM' button) (Part 4)

Safety Features & Precautions

Module	Section	Function	Value	Default	Comment
HU_CIC/NBT	3001	LEGAL_DISCLAIMER_TIME	kein_Id	Id_mit_time out	Removes iDrive Initial Disclaimer
HU_CIC/NBT	3001	MACRO_CAM_LEGALDISCLAIMER	kein_Id	Id_mit_time out	Removes disclaimer for all cameras and PDC
KAFAS	3000	ROAD_EDGE_WARNING_ENABLED	aktiv	nicht_aktiv	Add grass and curb detection to Lane Departure
ICM	3000	C_ZSW_Aktivierungsgeschwindigkeit_Funktion_low	20_kmh	50_kmh	Change Active Blind Spot Activation Speed.
ACSM	3001	GWF_SBR_WARNDAUER	Werte = 01 (for 1 second)	Werte=5A	Duration of the Seatbelt Reminder warnings (typically 90s)
ACSM	3000	Gurtzustandsanzeige_Beifahrer_GWF_GZA_BF	nicht_aktiv / Werte=00	aktiv / Werte=01	Disable seat belt status display - passenger

ACSM	3000	Gurtzustandsanzeige_Fahrer_GWF_GZA_FA	nicht_aktiv / Werte=00	aktiv / Werte=01	Disable seat belt status display - driver
ACSM	3000	SBR_BF_GWF_SBR_BF	nicht_aktiv / Werte=00	aktiv / Werte=01	Disable seat belt reminder - passenger
ACSM	3000	SBR_FA_GWF_SBR_FA	nicht_aktiv / Werte=00	aktiv / Werte=01	Disable seat belt reminder - driver
ACSM	3000	SeatBeltReminder_SBR_Beifahrer	nicht_aktiv / Werte=00	aktiv / Werte=01	Disable seat belt reminder - passenger
ACSM	3000	SeatBeltReminder_SBR_Fahrer	nicht_aktiv / Werte=00	aktiv / Werte=01	Disable seat belt reminder - driver
ACSM	3000	SBR_PreWarning_Beifahrer / SPW_BF	nicht_aktiv / Werte=00	aktiv / Werte=01	Disable sound on disconnect SB - passenger
ACSM	3000	SBR_PreWarning_Fahrer / SPW_FA	nicht_aktiv / Werte=00	aktiv / Werte=01	Disable sound on disconnect SB - driver
ACSM	3000	Initialwarnung_GWF_IW	nicht_aktiv / Werte=00	aktiv / Werte=01	Disable initial 3 chime seatbelt warning

Vehicle Drivetrain Features, Sport Features, & Active Sound Design

ASD Choices: F010 + S63B44 = (M5/M6 Sound); F080 + S55B30 = (M3/M4 Sound); F030 + N26B20 = (328i/428i Sound); F020/F021 + S63B44 = (ASD Off)

Module	Section	Function	Value	Default	Comment
ASD	3000	Model Range	See Above	F030	Change Active Sound Design (Part 1) **See above desc.**
ASD	3000	Engine	See Above	N26B20	Change Active Sound Design (Part 2) **See above desc.**
EGS	3000	Applikation_LC / LC	aktiv	nicht_aktiv	Enable Launch Control (Sport Auto Tranny Required [In VO Coding])
FEM_BODY	3023	TCM_MSA_DEFAULT_OFF	aktiv	nicht_aktiv	Auto-Start-Stop set to 'Off' at every startup
FEM_BODY	3023	TCM_MSA_MEMORY	aktiv	nicht_aktiv	Auto-Start-Stop remembers if set to 'On' or 'Off' from previous shutdown
HU_CIC	3000	EFF_DYN_SPORT_CID	aktiv	nicht_aktiv	Enables Sports Displays on non-Navi iDrive. (Doesn't work for diesel.)
HU_CIC	3000	EFF_DYN_SPORT_UNIT	aktiv	nicht_aktiv	Adds Sports Display units in the Language/Units settings menu
HU_NBT	3000	Macro_fds	popup_and_config	popup_only	Configure sport mode in iDrive (Part 1)
ICM	3000	ICMKOD_B_SPORTINDIVIDUALISIERBAR	ein (01)	aus (00)	Configure sport mode in iDrive (Part 2) (Optional for HU_CIC)

ICM	3000	C_Abstandsstufe_init	Stufe_1	Stufe_4	The initial following distance for Active Cruise Control is the closest distance.
ICM	3000	ICMKOD_B_InitEco	verbaut	nicht_verbaut	The vehicle will start in drive mode Eco Pro every startup.
ICM	3000	ICMKOD_B_SPORTLENKUNG	aktiv	nicht_aktiv	Enables Sport+ mode (Not Necessary with Sport Auto Tranny)
KOMBI	3000	R_GANG_AKUSTIK_ENABLE	aktiv	nicht_aktiv	Enables the Reverse Gear Gong (Chime) Noise for Japan. (Very Annoying)

General Locking/Window Features & Convenience Features

Module	Section	Function	Value	Default	Comment
FEM_BODY	3040	CLM_UNLOCK_KL15OFF_AFTER_PIA_AU TO_LOCK	aktiv	nicht_aktiv	If Auto-Lock is enabled, then all doors will unlock at ignition shutoff.
FEM_BODY	3050	FH_TUERAUF_STOP_MAUT	nicht_aktiv	aktiv	Allows the front windows to be rolled up while the door is opened.
REM	3050	FH_TUERAUF_STOP_MAUT	nicht_aktiv	aktiv	Allows the rear windows to be rolled up while the door is opened.
FEM_BODY	3053	KOMFORT_OEFFNEN	werte = 0A	werte = 0F	Delay time to activate Comfort Opening via Key Fob or CA. (HEX)
FEM_BODY	3053	KOMFORT_OEFF_HINTEN	User Value	werte = 05	Comfort Opening: Delay between Front and Rear windows
FEM_BODY	3053	KOMFORT_OEFF_SHD	User Value	werte = 23	Comfort Opening: Delay between the Rear windows and Moon Roof
FEM_BODY	3053	KOMFORT_SCHLIESSEN	werte = 00	werte = 0F	Delay time to activate Convenience Closing via Key Fob or CA. (HEX)
FEM_BODY	3053	KOMFORT_SCHL_VORNE	User Value	werte = 05	Convenience Closing: Delay between Front and Rear windows
FEM_BODY	3053	KOMFORT_SCHL_SHD	User Value	werte = 23	Convenience Closing: Delay between the Front windows and Moon Roof
FEM_BODY	3053	KOMFORTOEFFNUNG_FB	aktiv	nicht_aktiv	Open Windows/Fold Mirrors when holding Unlock on Key Fob.
FEM_BODY	3053	KOMFORTSCHLIESSUNG_FB	aktiv	nicht_aktiv	Close Windows/Fold Mirrors when holding lock on Key Fob.
FEM_BODY	3110	ASP_AUSKLAPPEN_NACH_KOMFORTSC HLIESSEN	aktiv	nicht_aktiv	Unfold Mirrors on vehicle unlock via Key Fob or Comfort Access.

FEM_BODY	3110	ASP_BEIKLAPPEN_BEI_KOMFORTSCHLIESSEN	aktiv	nicht_aktiv	Fold Mirrors when holding lock on Key Fob or Comfort Access.
FEM_BODY	3110	ASP_GESCHWINDIGKEIT_AUTO_AUSKLAPPEN	14 (20km/h)	28 (40km/h)	Changes the speed at which the side mirrors will auto-unfold. (Value in HEX)
FEM_BODY	3110	ASP_MAX_GESCHWINDIGKEIT_BEIKLAPPEN	FF (255km)	14 (20km/h)	Max speed the mirrors will fold. (Value in HEX)
FEM_BODY	3040	CLM_TIME_PIA_LOCK_AT_TIMEOUT	0C (120 s)	User Value	Time before it auto-locks the car when no doors have been opened. (10s units)
FEM_BODY	3060	QUITTLK_ENTSCHAERFEN_ANZAHL	werte=X-1	werte=02	Number of turn signal flashes when unlocking. (Value is Number of flashes - 1)
FEM_BODY	3060	QUITTLK_SICHERN_ANZAHL	werte=X-1	werte=01	Number of turn signal flashes when locking. (Value is Number of flashes - 1)
FEM_BODY	3020	TCM_LOGIC_R_OFF_DOOR	aktiv	nicht_aktiv	Turns off radio and navigation when the driver door is opened.
FEM_BODY	3040	CLM_TIMEOUT_HK_SMO	wert_01	wert_04	Change the Comfort Access trunk opening delay. (HEX value by 0.1 secs)
FEM_BODY	3040	CLM_SMO_INDICATOR	nicht_aktiv	aktiv	Turn off taillight flashing when opening trunk via Comfort Access.
HKFM	3010	SCH_FBD	aktiv	nicht_aktiv	Button on key fob will be enabled to CLOSE the trunk
HKFM	3010	SCH_TOEHKI	aktiv	nicht_aktiv	Button on driver-side will be enabled to CLOSE the trunk
HKFM	3010	TASTER_FBD	aktiv	nicht_aktiv	Required for SCH_FBD and SCH_TOEHKI to work.
IHKA	3002	MEMORY_OFF	aktiv	nicht_aktiv	Air Conditioning will remember if 'Off' or 'On' from previous shutdown.
IHKA	3003	MEMORY_UMLUFT	aktiv	nicht_aktiv	Remember Air Re-Circulation Setting from previous shutdown.
FEM_BODY	3040	CLM_HORN_AT_SECURE	aktiv	nicht_aktiv	Disable horn when locking the car with engine running

iDrive Features

These are features that vary between all the iDrive functions (Vehicle Status, Navigation, Sound Settings, etc.) grouped by relativity.

Note: CMB_MEDIA codes may or may not be under the HU_NBT module, since the combobox is integrated in HU_NBT.

Module	Section	Function	Value	Default	Comment
CMB_MEDIA	3001	INBAND_RINGING (in HU_NBT)	aktiv	nicht_aktiv	Plays ringtone streamed from cell phone (Works on iPhone, not Android)
CMB_MEDIA	3006	MY_INFO_SUPPORTED_POIS	User Value	wert_25	Max amount of messages/addresses stored in vehicle, max 50 (HU_CIC only)
CMB_MEDIA	3000	SYS_EIN_AUS	aktiv	nicht_aktiv	Enables Basic Voice Recognition
CMB_MEDIA	3001	RINGTONE	User Choice	ring_tone2	Set the Ring Tone (if no Inband Ringing is set)
HU_CIC	3000	ACOUSTICAL_LOCK_CONFIRM	aktiv	nicht_aktiv	Adds iDrive setting to turn on/off the audible confirmation when Alarm is armed.
HU_CIC	3000	LOGIC7_SYMBOL	nicht_aktiv	aktiv	Removes L7 Logo from Tone (Sound) Menu
HU_CIC	3001	RDC_SAFETY	aktiv	nicht_aktiv	Add Tire Pressure and Individual Tire Temperature to the TPMS display
HU_CIC	3002	RADIO_WEATHERBAND	aktiv	nicht_aktiv	Adds Weatherband radio (NOAA in the US) to the Radio Sources
HU_CIC	3000	ENTWICKLER_MENUE	aktiv	nicht_aktiv	Adds Developer Menu to Settings. (Shows Build/Date/Versions/etc)

HU_CIC	3001	AREA_CODE_DVD	User Choice	Country Value	Changes DVD Region Code (WARNING: This will lock in after approx. 7 changes.)
HU_CIC	3000	NAVI_FUELSTOP_PROPOSAL	aktiv	nicht_aktiv	Proposes a suggested Fuel Stop in a Route when it believe it will run out of gas.
HU_CIC	3000	PIM_Macro	aktiv	nicht_aktiv	Alternative to getting Office to show up (Unknown on HU_NBT)
HU_CIC	3002	VOL_MAX_ON	32	19	Allows volume level to be retained up to 100% rather than startup on 25%.
HU_NBT	3003	PIM_Driving_Text	Whole_text	up_to_three_lines	Displays an entire text (SMS) message on iDrive rather than three lines
HU_NBT	3003	CONTACTS_NAVI_SEPARATED	aktiv	nicht_aktiv	iDrive Contacts separated from Phone contacts (Office only shows iDrive ones)
HU_NBT	3000	VOLUME_POPUP_DISPLAY	aktiv	nicht_aktiv	Show volume level on screen when adjusting
HU_NBT	3002	SOUND_SIGNAL_SET	03_BMW_i	00_BMW	Changes notification chime (gong) from BMW to BMW i, Mini, and Rolls Royce
HU_NBT	3001	STARTUP_TYPE	black/splash	animation	Changes HU_NBT Startup Screen between Animation, Splash Screen, or blank.
HU_NBT	3001	STARTUP_EMBLEM	variant_01	variant_0	Change iDrive Startup Animation. (Selections below table)
HU_NBT	3000	M_VEHICLE	aktiv	nicht_aktiv	Changes the Gauges in Sports Display from BMW Amber to Red & Silver
HU_NBT	3000	ROUTE_FLIGHT	aktiv	nicht_aktiv	Makes the route simulator available under new menu "Route preview" - Part 1
HU_NBT	3000	NAVI_SCROLLING_ALONG_ROUTE	aktiv	nicht_aktiv	Makes the route simulator available under new menu "Route preview" - Part 2
HU_NBT	3000	NAVI_ROAD_PREVIEW	aktiv	nicht_aktiv	Enables 'Route Info' (Turn-by-Turn list of route)
HU_NBT	3001	NAVI_TRIP_IMPORT	aktiv	nicht_aktiv	Enables importing a trip into Navigation via USB Drive
HU_NBT	3003	CE_DEVICE_SPEECH_RECONGNITION	aktiv	nicht_aktiv	Activates Siri Eyes-Free Button (Hold down voice recognition button)
HU_NBT	3000	BASIS_KOMBI_MMI_LIST	aktiv	nicht_aktiv	Option to allow watch next track on Basic Kombi with a retrofitted HU_NBT

HU_NBT	3000	LANGUAGE_ENGLISH_UK	master	nicht_aktiv	Changes Navigation Voice from English to British English - Part 1
HU_NBT	3000	LANGUAGE_ENGLISH_US	nicht_aktiv	master	Changes Navigation Voice from English to British English - Part 2

Video In Motion & Playback Features, Owner's Manual in Motion, and Camera in Motion

Video in Motion is NOT available on HU_ENTRY. You must have HU_CIC or HU_NBT.

Module	Section	Function	Value	Default	Comment
HU_CIC	3000	SPEEDLOCK_X_KMH_MAX	werte = FF	werte = 03	Disable DVD/USB Video Speedlock - Part 1 (HU_CIC and HU_NBT)
HU_CIC	3000	SPEEDLOCK_X_KMH_MIN	werte = FF	werte = 03	Disable DVD/USB Video Speedlock - Part 2 (HU_CIC and HU_NBT)
HU_CIC	3000	VIDEO_NUR_MIT_HANDBREMSE	nicht_aktiv	aktiv	Removes 'Park' and handbrake requirement to watch Videos - Part 3 (HU_CIC only)
HU_NBT	3000	VIDEO_FRONT_LOCKED	nicht_aktiv	aktiv	Removes Front Lock (Needed with VIDEO_HANDBRAKE) - Part 4 (HU_NBT only)
HU_NBT	3000	VIDEO_HANDBRAKE	nicht_aktiv	aktiv	Removes requirement for handbrake to watch videos - Part 5 (HU_NBT only)
HU_NBT	3000	VIDEO_SPEEDLOCK_CONDITION	none	—	Removes speed requirement to watch videos - Part 6 (HU_NBT only)
HU_NBT	3000	SERVICES_MESSAGES_SPEEDLOCK_CONDITION	none	—	Removes speed requirement to read service messages - Part 7 (HU_NBT only)
HU_NBT	3000	OFFICE_MESSAGES_SPEEDLOCK_CONDITION	none	—	Removes speed requirement to read office messages - Part 8 (HU_NBT only)
HU_NBT	3003	API_USB_VIDEO	both	none	Enable Video Playback via USB (.avi, .mp4, .mkv, .m4v, etc.)
HU_NBT	3000	ENT_MC_VIDEO_SUPPORT	aktiv	nicht_aktiv	Enable MC Video playback (Saving videos to internal HD does not work)
HU_NBT	3000	ENT_CODEC_XVID	aktiv	nicht_aktiv	Enable XVID codec for USB videos
HU_NBT	3000	ENT_CODEC_XVCD	aktiv	nicht_aktiv	Enable XVCD codec for USB videos
HU_NBT	3000	ENT_CODEC_OGG	aktiv	nicht_aktiv	Enable OGG codec during video playback
HU_NBT	3000	ENT_VIDEO_HMI	aktiv	nicht_aktiv	Enables the 'DVD Menu' button when watching a DVD

HU_NBT	3000	SL06_IBA_1	nicht_aktiv	aktiv	Owner's Manual in Motion - Part 1 (Only tested with HU_NBT, not sure about HU_CIC)
HU_NBT	3000	SL07_IBA_2	nicht_aktiv	aktiv	Owner's Manual in Motion - Part 2 (Only tested with HU_NBT, not sure about HU_CIC)
HU_NBT	3000	SL21_IBA_3	nicht_aktiv	aktiv	Owner's Manual in Motion - Part 3 (Only tested with HU_NBT, not sure about HU_CIC)
REM/PMA	V_SCHWELLE_1	werte = FF	werte = 24	The speed when it auto disables top camera view (FF = 255 km/h)	
REM/PMA	V_SCHWELLE_2	werte = FF	werte = 0F	The speed when it auto disables rear camera view (FF = 255 km/h)	
REM/PMA	D_SCHWELLE_1	werte = FF	werte = 32	The distance when it auto disables top camera view (FF = 255 meters)	
REM/PMA	D_SCHWELLE_2	werte = FF	werte = 0A	The distance when it auto disables rear camera view (FF = 255 meters)	
TR SVC	3000	SV_Activate_Speed_Limit	werte = FF	werte = 0F	Activate Side View Camera at any speed - Part 1
TR SVC	3000	SV_Deactivate_Speed_Limit	werte = FF	werte = 0F	Activate Side View Camera at any speed - Part 2

Advanced Real-Time Traffic Information Activation

To actively change routes based on Traffic, enable Traffic Info under Options in Navigation and enable Dynamic Guidance in Route Preferences.

Module	Section	Function	Value	Default	Comment
HU_CIC	3000	NAVI_TRAFFIC_INFO_MAP	aktiv	nicht_aktiv	Real-Time Traffic Info - Part 1
HU_CIC	3002	TI_CA_TMC	aktiv	nicht_aktiv	Real-Time Traffic Info - Part 2
HU_CIC	3002	TI_VINFO	aktiv	nicht_aktiv	Real-Time Traffic Info - Part 3
HU_CIC	3002	TI_TMC_REGIONAL	aktiv	nicht_aktiv	Real-Time Traffic Info - Part 4
HU_CIC	3002	TI_FALLBACK_DISABLED	aktiv	nicht_aktiv	Real-Time Traffic Info - Part 5

Heads-Up Display

Most of the Heads-Up Display functions are already active in the 2013+ F3x

Module	Section	Function	Value	Default	Comment
HU_NBT	3000	JUNCTION_VIEW_HUD	aktiv	nicht_aktiv	Displays the HWY Junction Images on HUD **Works if updated. Minor visual errors.**
HU_CIC	3000	HUD_ENTERTAINMENTLIST	aktiv	nicht_aktiv	Adds checkbox Heads Up Display Settings for "Entertainment/Telephone"
HU_CIC	3000	HUD_DISTANCE_INFO	aktiv	nicht_aktiv	Shows Active Cruise Control iBrake Distance in HUD (Part 1)
KOMBI	3008	HUD_PIA_IBRAKE	aktiv	nicht_aktiv	Shows Active Cruise Control iBrake Distance in HUD (Part 2)

KOMBI	3000	IBRAKE_ABSTAND_ENABLE	aktiv	nicht_aktiv	Shows Active Cruise Control iBrake Distance in HUD (Part 3)
KOMBI	3000	HUD_ENTERTAINMENT_ENABLE	aktiv	nicht_aktiv	Enable Entertainment Menu in HUD
KOMBI	3000	HUD_TELEFONANRUF_ENABLE	aktiv	nicht_aktiv	Enables Telephone Recent Call List in HUD
KOMBI	3000	HUD_SPRACHEINGABE_ENABLE	aktiv	nicht_aktiv	Displays Voice Command in HUD
KOMBI	3000	HUD_START_UP_SCREEN_ANZ_ZEIT	User Value	3	Change HUD Startup Screen Time to be fast or slower. (Value in seconds)

Headlamp Washers Configuration

Module	Section	Function	Value	Default	Comment
FEM_BODY	3080	WW_SCHEINWERFERREINIGUNG	nicht_aktiv	aktiv	Completely disables the Headlamp Washers
FEM_BODY	3081	WW_ANZAHL_NACHWISCHZ_FRO NT	—	3_mal_Nach wischen	Windshield wipe cycles after washing
FEM_BODY	3080	WW_ANZAHL_SPRITZIMPULSE_SR A	3_Impulse	2_Impulse	Number of headlamp spray pulses
FEM_BODY	3080	WW_ANZAHL_WASCHBET_ZUR_S RA	User Value	10_Betaetigu ngen	Number of washes before headlamp wash reactivation
FEM_BODY	3080	WW_DAUER_SPRITZIMPULSE_SR A	User Value	werte=0A (1000ms)	Changes how long it washes per pulse (Value in 100ms)
FEM_BODY	3080	WW_SRA_GESCHWINDIGKEITS_D EAKTIVIERUNG	User Value	werte=82 (130km/h)	Max Speed to activate Headlamp Washers
FEM_BODY	3080	WW_PAUSE_SPRITZIMPULSE_SRA	User Value	werte=0A(10 00ms)	Change the pause is between wash pulses (Value in 100ms)
FEM_BODY	3080	WW_SRA_SPERRZEIT	User Value	werte=0A (10min)	Change the wait time is before reactivation (Value in 1min)

Key 4th button retrofit

NBT system required

Module	Section	Function	Value	Default	Comment
FEM	3000	RC_DEFAULT_IDG_4TH_BUTTON_LOCKING	wert_03		4th Button panic alarm - Step1
FEM	3000	RC_4_BUTTON_SPFN	aktiv		4th Button panic alarm - Step2
FEM	3000	RC_PANIC_ALARM	aktiv		4th Button panic alarm - Step3
FEM	3000	RC_TIME_DELAY_PANIC	wert_00		4th Button panic alarm - Step4
FZD (Roof function)	3002	Panikalarm	aktiv		4th Button panic alarm - Step5
FEM	3000	RC_DEFAULT_IDG_4TH_BUTTON_SHORT			Set 4th button short click to something - to be tested
CAS	3002	REMOTE_KEY_SPECIAL_FCT	aktiv	nicht_aktiv	Follow me home on short press of 4th button