

F30/F32 Cheat Sheet

Data Gathered and Collected by Halsifer

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FA Codes (VO Coding)

It's recommended to VO code first before doing any CAFD coding, since VO coding will return values to their defaults.

Activate Active High Beam Assistant (Anti-Dazzle)

Active High Beam Assistant (Anti-Dazzle) requires the vehicle to be equipped with High Beam Assistant. This enabled 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 Enhanced Bluetooth

Enhanced Bluetooth requires the vehicle to be equipped with HU_NBT or have a combobox if you have HU_CIC or HU_ENTRY. This enables you to stream audio via Bluetooth, enable artwork, and USB stream music as well. If **6NH** doesn't exist, add either **6NK** or **6NS**.

MODIFY THE READ FA - Change **6NH** to **6NK** (w/o BMW Assist) or **6NS** (w/ BMW Assist) from the vehicle FA.
VO CODE - **CMB_MEDIA** and **HU_CIC/HU_ENTRY** or **HU_NBT**.

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 Automation Transmission (SAT) is a standalone option offered by BMW, with paddle shifters (though not required). This will enable 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**.

CAFD Codes (FDL Coding)

It's recommended to VO code first before doing any CAFD coding, since VO coding will return values to their defaults.

Highlight References

Blue Highlight - Enabled/Working on my vehicle (for my reference) **Yellow - Check Section Desc.** **Red - Issue**

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. (Some Examples: 08 → 8 ; 1F → 31 ; 32 → 50 ; 64 → 100 ; FF → 255)

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) ***Supposedly doesn't work on F32***

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. ***Front Fog Lights are required for all features below**.*

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_L_output	nsw_l	Off	Enables cornering lights - Part 5
FEM_BODY	3062	MAPPING_abbiegel_R_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

Rear Fog Lights require a working Rear Fog Light Button, which can be done by using the plastic piece in place of the button and breaking the plastic stopper inside the piece. No parts need to be bought.

Module	Section	Function	Value	Value	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. <i>Letters: (0: Off, A: Auto, P: Parking)</i>
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	Nitch 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

Assorted Lighting Features

***Door handle illumination in Reverse is already active on vehicles equipped with Top-View Camera.*

**Translation for Auto Headlamp code: empfindlich (sensitive) ; sehr_empfindlich (very sensitive) ; unempfindlich (insensitive) ; Tagfahrlicht (DRL)*

Module	Section	Function	Value	Default	Comment
FEM_BODY	3130	RLS_DEF_FLC_SCHWELLWERT_SATZ	See Desc.	"Normal"	Reduce the Automatic headlamp sensitivity. (Translation above)
FEM_BODY	3060	BLINKZYKLEN_ANZAHL_TIPP	werte = X-1	werte = 02	Change the triple blinker blinks to any amount. (Value is XX + 1).
FEM_BODY	3060	ESS_AKTIVIERBARER_AUSGANG	bremslicht_blinkend	flachenvergroesserun	Change Emergency brake light from Inner Brake Lights to Flashing Lights.
FEM_BODY	3060	ESS_AKTIVIERUNG_GESCHW	User Value	werte=02 (5 km/h)	Threshold Speed for Activating Emergency brake light
FEM_BODY	3063	MAPPING_SIDEMARKER_L_OUTPUT	off	fra_v_l	Turns off the left front side-marker. (The blinker is still active)
FEM_BODY	3063	MAPPING_SIDEMARKER_R_OUTPUT	off	fra_v_r	Turns off the right front side-marker. (The blinker is still active)
FEM_BODY	3070	OVT_BEI_RUECKFAHRLICHT	aktiv	nicht_aktiv	Door handle LEDs light up when engaged in Reverse
FEM_BODY	3050	NSW_AUS_BEI_FL	nicht_aktiv	aktiv	Allows Fog Lights to remain on when high beams are active.
FEM_BODY	3060	NSW_EIN_AUF_LDS_STL	aktiv	nicht_aktiv	Allows Fog Lights to turn on while only parking lights are on.
FEM_BODY	3070	Ambiente_Helligkeit	User Value	64	Brightness of Interior Ambient Lighting (Value is in HEX)
FEM_BODY	3070	Ambiente_Nachfuehrung	nicht aktiv	aktiv	Separates Ambient Light Level and Instrument Cluster Light Level
FEM_BODY	3070	IB_Einschalt_begr_lok	User Value	8	The time the interior lights stay illuminated while locking (Value in HEX)
FEM_BODY	3070	IB_Einschalt_begr_ulok	User Value	8	The time the interior lights stay illuminated while unlocking (Value in HEX)
FEM_BODY	3070	WL_HELLIGKEIT	User Value	64	Brightness of Welcome Lights

LED Replacement Turn Signal Bulbs Activation

With traditional turn signal bulbs, the F30 needs to check if the bulb is still alive and working every 4 minutes the vehicle is on, resulting in a very small pulse being sent to the light bulb, not enough to illuminate but enough to verify the bulb is present and working. With LED bulbs, this causes an actual flicker. These codes below remove the pulse monitoring and enables LED bulb recognition. *Recommended bulb*: CREE 30W XB-D5 LED

Module	Section	Function	Value	Default	Comment
FEM_BODY	3061	FRA_V_L_KALTUEBERWACHUNG	nicht_aktiv	aktiv	Turns off Front-Left Turn Signal Bulb Cold Monitoring
FEM_BODY	3061	FRA_V_L_WARMUEBERWACHUNG	nicht_aktiv	aktiv	Turns off Front-Left Turn Signal Bulb Warm Monitoring
FEM_BODY	3061	FRA_V_L_IS_LED	aktiv	nicht_aktiv	Enables Front-Left LED bulb
FEM_BODY	3061	FRA_V_R_KALTUEBERWACHUNG	nicht_aktiv	aktiv	Turns off Front-Right Turn Signal Bulb Cold Monitoring
FEM_BODY	3061	FRA_V_R_WARMUEBERWACHUNG	nicht_aktiv	aktiv	Turns off Front-Right Turn Signal Bulb Warm Monitoring
FEM_BODY	3061	FRA_V_R_IS_LED	aktiv	nicht_aktiv	Enables Front-Right LED bulb
FEM_BODY/REM	3061	FRA_H_L_KALTUEBERWACHUNG	nicht_aktiv	aktiv	Turns off Rear-Left Turn Signal Bulb Cold Monitoring
FEM_BODY/REM	3061	FRA_H_L_WARMUEBERWACHUNG	nicht_aktiv	aktiv	Turns off Rear-Left Turn Signal Bulb Warm Monitoring
FEM_BODY/REM	3061	FRA_H_L_IS_LED	aktiv	nicht_aktiv	Enables Rear-Left LED bulb <i>**May cause Check Engine Light**</i>
FEM_BODY/REM	3061	FRA_H_R_KALTUEBERWACHUNG	nicht_aktiv	aktiv	Turns off Rear-Right Turn Signal Bulb Cold Monitoring
FEM_BODY/REM	3061	FRA_H_R_WARMUEBERWACHUNG	nicht_aktiv	aktiv	Turns off Rear-Right Turn Signal Bulb Warm Monitoring
FEM_BODY/REM	3061	FRA_H_R_IS_LED	aktiv	nicht_aktiv	Enables Rear-Right LED bulb <i>**May cause Check Engine Light**</i>

Instrument Cluster

When testing Speed Correction turned off, it causes the speed to always be approximately 2 mph lower than Cruise Control set speed. Also, it's recommended not to set clock via GPS if equipped with BMW Online. ***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_MENUUE_TEXT_1/2/3/4	menue_3	menue_4	Enables Image of Sport + on KOMBI
KOMBI	3000	FDS_MENUUE_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

Specific coding options for seatbelt chimes/reminders and safety disclaimers in iDrive. ****Do not set Active Blind Spot below 20 km/h****

Module	Section	Function	Value	Default	Comment
HU_CIC/NBT	3001	LEGAL_DISCLAIMER_TIME	kein_Id	Id_mit_timeout	Removes iDrive Initial Disclaimer
HU_CIC/NBT	3001	MACRO_CAM_LEGALDISCLAIMER	kein_Id	Id_mit_timeout	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

****Active Sound Design (ASD) is only available on 2014+ F3x, all N20 engines and some N55 engines. If you see the ECU, you can modify it.****

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

Opening/Closing via Comfort Access not included because it's already enabled by default. ****HKFM codes are F31 (sports wagon). 20 minutes till active.****

****ASP_MAX_GESCHWINDIGKEIT_BEIKLAPPEN requires ASP_GESCHWINDIGKEIT_AUTO_AUSKLAPPEN to be same or higher value.****

****Some cars with MEMORY_OFF enabled may always have the A/C defaulted to Off at each startup. Car reaction may vary.****

Module	Section	Function	Value	Default	Comment
FEM_BODY	3040	CLM_UNLOCK_KL15OFF_AFTER_PIA_AUTO_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_KOMFORTSCHLIESSEN	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	QUITTBK_ENTSCHAERFEN_ANZAHL	werte=X-1	werte=02	Number of turn signal flashes when unlocking. (Value is Number of flashes - 1)
FEM_BODY	3060	QUITTBK_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.

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.

****Not all HU_CIC codes will work properly for HU_NBT and vice-versa, so if it's not labeled for your equipped head unit, there is no guarantee it will work.**

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_MENU	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_RECOGNITION	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

STARTUP EMBLEMS: **variant_0**, **variant_2**, and **variant_6** - BMW Connected Drive ; **variant_1** - ///M ; **variant_3** - BMW i ; **variant_4** - Mini ; **variant_5** - Rolls Royce ; **variant_7** - BMW White Startup ; **variant_8** - BMW Brown Startup ; **variant_9** - BMW Merry Christmas and Happy New Year

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. *USB Video playback should already be enabled in 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_CODEEC_XVID	aktiv	nicht_aktiv	Enable XVID codec for USB videos
HU_NBT	3000	ENT_CODEEC_XVCD	aktiv	nicht_aktiv	Enable XVCD codec for USB videos
HU_NBT	3000	ENT_CODEEC_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+ F30/F32s.

Module	Section	Function	Value	Default	Comment
HU_NBT	3000	JUNCTION_VIEW_HUD	aktiv	nicht_aktiv	Displays the HWY Junction Images on HUD <i>**Works if updated. Minor visual errors.**</i>
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)

BMW Live Enabling

Once BMW Live is enabled, you can tether your phone data to your vehicle to use the in-vehicle internet browser and BMW Live Access. However, you will lose the ability to do Online Searches in Navigation and BMW Online Services. ***Not a recommended if your car includes BMW Online/Assist***

Module	Section	Function	Value	Default	Comment
HU_CIC	3000	CONNECTED_DRIVE	aktiv	nicht_aktiv	Enable BMW Live - Part 1
HU_CIC	3000	ONLINE_BROWSER_LIVE	aktiv	nicht_aktiv	Enable BMW Live - Part 2
HU_CIC	3003	ONLINE_BROWSER	nur_bmw_internet_aktiv		Enable BMW Live - Part 3
HU_CIC	3003	ONLINE_SERVICES	nicht_aktiv	aktiv	Enable BMW Live - Part 4
HU_CIC	3003	ONLINE_SERVICES_GLS	nicht_aktiv	aktiv	Enable BMW Live - Part 5
HU_CIC	3003	DUN_PROFILE	aktiv	nicht_aktiv	Enable BMW Live - Part 6
HU_CIC	3003	PAN_PROFILE	aktiv	nicht_aktiv	Enable BMW Live - Part 7
HU_CIC	3003	BT_DATA_SERVICE	aktiv	nicht_aktiv	Enable BMW Live - Part 8

Active Spoiler (F34 3-Series GT only)

The first value (00 or FF) is ignored. The second value is the modified value, being the desired speed. For example, 6E (HEX) = 110 (Decimal) = 110 km/h. INV_V_ASP_OUT can be determined by taking the V_ASP_OUT value 6E (HEX) = 110 (Decimal). Then (255 - 110 = 145). Then 145 (Decimal) = 91 (HEX) ***For those who can do HEX calculations: It's (FF) minus (V_ASP_OUT Value). So FF - 6E = 91.***

Module	Section	Function	Value	Default	Comment
HKFM	-	V_ASP_OUT	00, (User Value)	00, 6E	The speed of when the Active Spoiler is active. (Default: 110 km/h)
HKFM	-	INV_V_ASP_OUT	FF, (User Value)	FF, 91	The inverted speed of when the Active Spoiler is active.

Seat Heating Temperature Levels/Memory Seats

Cold Weather Package/Heated Front Seats Required. The values are all temperatures in HEX. The conversion: $([\text{Desired Celsius Temperature}] + 40) * 2$.
 Ex. I want 106° F, and 106° F = 41° C. So my value will be $(41 + 40) * 2 = 162$ (decimal) = A2 (HEX).

Module	Section	Function	Value	Default	Comment
FEM_BODY	3090	TEMP_LEHNE_STUFE_1_FRONT	User Value	werte = 96	Heated Seat Temperature - Front Seats - Upper Body - Setting 1 Value (Default: 95° F)
FEM_BODY	3090	TEMP_LEHNE_STUFE_2_FRONT	User Value	werte = A2	Heated Seat Temperature - Front Seats - Upper Body - Setting 2 Value (Default: 106° F)
FEM_BODY	3090	TEMP_LEHNE_STUFE_3_FRONT	User Value	werte = AE	Heated Seat Temperature - Front Seats - Upper Body - Setting 3 Value (Default: 116° F)
FEM_BODY	3090	TEMP_SITZ_STUFE_1_FRONT	User Value	werte = 94	Heated Seat Temperature - Front Seats - Lower Body - Setting 1 Value (Default: 94° F)
FEM_BODY	3090	TEMP_SITZ_STUFE_2_FRONT	User Value	werte = A0	Heated Seat Temperature - Front Seats - Lower Body - Setting 2 Value (Default: 104° F)
FEM_BODY	3090	TEMP_SITZ_STUFE_3_FRONT	User Value	werte = AC	Heated Seat Temperature - Front Seats - Lower Body - Setting 3 Value (Default: 114° F)
FEM_BODY	3090	TEMP_LEHNE_STUFE_1_FOND	User Value	werte = 96	Heated Seat Temperature - Rear Seats - Upper Body - Setting 1 Value (Default: 95° F)
FEM_BODY	3090	TEMP_LEHNE_STUFE_2_FOND	User Value	werte = A2	Heated Seat Temperature - Rear Seats - Upper Body - Setting 2 Value (Default: 106° F)
FEM_BODY	3090	TEMP_LEHNE_STUFE_3_FOND	User Value	werte = AE	Heated Seat Temperature - Rear Seats - Upper Body - Setting 3 Value (Default: 116° F)
FEM_BODY	3090	TEMP_SITZ_STUFE_1_FOND	User Value	werte = 94	Heated Seat Temperature - Rear Seats - Lower Body - Setting 1 Value (Default: 94° F)
FEM_BODY	3090	TEMP_SITZ_STUFE_2_FOND	User Value	werte = A0	Heated Seat Temperature - Rear Seats - Lower Body - Setting 2 Value (Default: 104° F)
FEM_BODY	3090	TEMP_SITZ_STUFE_3_FOND	User Value	werte = AC	Heated Seat Temperature - Rear Seats - Lower Body - Setting 3 Value (Default: 114° F)
SM2	3000	EINAUSSTIEGSHILFE	Modus_FA_SLV	nicht_aktiv	Activates 'Easy Entry' (Will stop moving forward if gear is engaged)
SM2	3000	MEMORY_GONG	aktiv	nicht_aktiv	Vehicle will gong when Seat Memory has been successfully stored.

Headlamp Washers Configuration

****This will only work if you are equipped with Headlamp Washers, in the Cold Weather Package****

Most of these functions should work or change as labeled. However, I have yet to go through testing with these.

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_FRONT	—	3_mal_Nachwischen	Windshield wipe cycles after washing
FEM_BODY	3080	WW_ANZAHL_SPRITZIMPULSE_SRA	3_Impulse	2_Impulse	Number of headlamp spray pulses
FEM_BODY	3080	WW_ANZAHL_WASCHBET_ZUR_SRA	User Value	10_Betaetigungen	Number of washes before headlamp wash reactivation
FEM_BODY	3080	WW_DAUER_SPRITZIMPULSE_SRA	User Value	werte=0A (1000ms)	Changes how long it washes per pulse (Value in 100ms)
FEM_BODY	3080	WW_SRA_GESCHWINDIGKEITS_DEAKTIVIERUNG	User Value	werte=82 (130km/h)	Max Speed to activate Headlamp Washers
FEM_BODY	3080	WW_PAUSE_SPRITZIMPULSE_SRA	User Value	werte=0A(1000ms)	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)

CODES THAT NEED TO BE TESTED OR CHECKED

Module	Section	Function	Value	Default	Comment
HU_CIC		PDC_Direction	horizontal	vertikal	Toggle PDC display from vertical and horizontal
HU_NBT	3000	REGEN_SCHLIESSEN	aktiv	nicht_aktiv	Sunroof Closing on Rain Detection
HU_NBT	3000	NAVI_AUTOZOOM	aktiv	nicht_aktiv	Provides option to auto zoom in when approaching a turn. (Not selectable)
KAFAS	3000	ANZEIGEVARIANTE	anz_var_02	anz_var_04	Lane departure; Lines only show up when a lane marking is detected
KAFAS	3006	VIBRATION_VALUE			Change Steering Wheel Vibration
FEM_BODY	3020	TCM_STARTLOCK_BRAKE	nicht_aktiv	aktiv	Start Car without holding brake pedal down.
FEM_BODY	3020	TCM_STARTLOCK_CLUTCH	nicht_aktiv	aktiv	Start Car without holding clutch pedal down.
FEM_BODY	3020	TCM_STARTLOCK_DRIVINGREADINESS	nicht_aktiv	aktiv	Start Car without holding brake or clutch pedal down.
HU_NBT	3003	SPEECH_2_TEXT	aktiv	nicht_aktiv	Enables Speech Input for E-Mail reply or SMS reply
HU_NBT	3003	TIMESTAMP_DISPLAY	aktiv	nicht_aktiv	Enables Time-Stamp Display for Call Logs
KOMBI	3001	HINTERGRUND_FARBE_NACHT	Orange/Grau	Orange	Changes KOMBI background to Orange or Gray at night (Requires 6WA)
KOMBI	3001	HINTERGRUND_FARBE_TAG	Orange/Grau	Orange	Changes KOMBI background to Orange or Gray during day (Requires 6WA)

INEFFECTIVE OR UNAVAILABLE CODES

Module	Section	Function	Value	Default	Comment
FEM_BODY	3050	FLA_AUTO_AKTIV	aktiv	nicht_aktiv	Set High Beam Assistant Default to Automatic
HU_NBT	3001	HVAC_POPUP_AUTO_TOGGLE	aktiv	nicht_aktiv	Shows AUTO mode on Control Display
HU_NBT	3001	HVAC_POPUP_SEATCLIMATE	aktiv	nicht_aktiv	Shows seat heating on Control Display
HU_NBT	3001	HVAC_POPUP_AIRDISTR	aktiv	nicht_aktiv	Shows air distribution Control Display
HU_NBT	3000	ASD_CONFIGURATION	aktiv	nicht_aktiv	Enables Active Sound Design Configuration Menu in iDrive - Part 1
HU_NBT	3000	ASD_SOUND_4	aktiv	nicht_aktiv	Enables Active Sound Design Configuration Menu in iDrive - Part 2
KOMBI	3000	BC_MOTORTEMP_ENABLE			Shows Engine temperature (Not Oil Temperature)
KOMBI	3000	HUD_TLC_ENABLE	aktiv	nicht_aktiv	Shows Lane Change on HUD
HU_CIC	3000	L7_SURROUND_CONFIG	aktiv	nicht_aktiv	Replaces "L7 Surround" on/off checkbox with a Slider (-5/+5) (Just turns on/off still)
HU_NBT	3001	HUD_TURNSIGNAL	aktiv	nicht_aktiv	Enables Turn Signal in Heads-Up Display (Not working on F30)
KOMBI	3000	BLINKER_HUD_ENABLE	aktiv	nicht_aktiv	Enables Turn Signal in Heads-Up Display (Not working on F30)