Messages												Signals												
Message	Identifier [hex]	Identifier [dec]	Protocol	Message length	Cycle time normal [ms]	Cycle time fast [ms]	Inhibit time [ms]	StartDelay [ms]	Message type	GenMsgSendType	GenMsgNrOfRepetitio	Signal	StartByte	StartBit	Signal length [bits]	Signal transmission type	Repetitions active	MUX signal	MUX Group	InitValue raw [dec]	ErrorValue raw [dec]	Sign	Worst case behavior	Worst case startup lat
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	Airbag_01_CRC	1	0	8	Cyclic							valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	Airbag_01_BZ	2	0	4	Cyclic							valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_RGS_Anst	2	4	4	OnChange				8			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Front_Crash	3	0	1	OnChangeWithRepetition				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Heck_Crash	3	1	1	OnChangeWithRepetition				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_SF_Crash	3	2	1	OnChangeWithRepetition				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_SB_Crash	3	3	1	OnChangeWithRepetition				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Rollover_Crash	3	4	1	OnChangeWithRepetition				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Crash_Int	3	5	3	OnChangeWithRepetition				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Lamp	4	0	1	Cyclic				1			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_disabled	4	1	1	Cyclic				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_VB_disabled	4	2	1	Cyclic				1			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_System error	4	3	1	Cyclic				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Diagnosis	4	4	1	Cyclic				0			valid value	200 ms
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Posture test	4	5	1	Cyclic				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Erh_On_VB	4	6	2	Cyclic				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Belt_Warning_VF	5	0	1	Cyclic				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Belt_Warning_VB	5	1	1	Cyclic				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_display_Fussg	5	2	2	Cyclic				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Texts_AKS	5	4	2	Cyclic				0			valid value	200 ms
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_PAO_Light_Anf	5	6	1	Cyclic				1			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_MKB_valid	5	7	1	Cyclic				0			valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_MKB_Requirement	6	0	1	OnChangeWithRepetition				0			Init	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_supply voltage	6	1	1	Cyclic				0			valid value	200 ms
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_Deactivation_HV	6	2	3	OnChangeWithRepetition				0	7		valid value	200 ms
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_EDR_Trigger	6	5	2	OnChange				0			valid value	200 ms
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_occupancy_VF	6	7	2	Cyclic				0	1		valid value	
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_belt_lock_FA_ext	7	1	3	OnChange				6	7		valid value	

Signal	Value range: Physical values						Logical values		Transmitter - Receiver						
Signal	Min raw value [dec]	Max raw value [dec]	phy values [dec]	Unit	Offset	Scaling	Raw value [dec]	Description	Airbag	eCS	RGS_HL	RGS_HR	RGS_VL	RGS_VR	Signal comment
Airbag_01_CRC	0	255	0 .. 255		0	1			S						For MLB: " Calculation see specification "Communication protection for FlexRay and CAN"" From MQB and MLBevo: " Calculation see specification "End-to-End Communication backup"" For end values see accompanying document "S-PDU identification sequences Identifier sequence: 0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40,0x40
Airbag_01_BZ	0	15	0 .. 15		0	1			S						
AB_RGS_Anst							4 5 6 [illegible] 8	active_level_1 active_level_2 active_level_3 [illegible] deactivated	S						PreCrash control of reversible seatbelt tensioners (activation and Force level) 10xx = disabled
AB_Front_Crash							0 1	no_front_crash Front_Crash	S						Bit is set when the seatbelt tensioner, US and RdW Threshold set
AB_Heck_Crash							0 1	no_stern_crash Tail_Crash	S						Will be implemented for all new projects starting up: AB8.4, Audi8/VW8
AB_SF_Crash							0 1	no_sides_crash_driver Pages_Crash_Driver	S						Currently only in conjunction with crash intensity >= 100b (fuel pump shutdown) is used.
AB_SB_Crash							0 1	no_sides_crash_passenger Side_Crash_Passenger	S						Currently only in conjunction with crash intensity >= 100b (fuel pump shutdown) is used.
AB_Rollover_Crash							0 1	no_rollover Rollover	S						Operated in the B6/B7 Cabrio and New Beetle Cabrio.
AB_Crash_Int							0 1 2 3 4 5 7	no_crash Crash_Intensity_1 Crash_Intensity_2_(only_actuator_test_MLB_B8) Crash_Intensity_2_(only_D4_C7_Colorado_NF_PAG Crash_in_MLB_B8) Crash_Intensity_3_(old_VW/AUDI actuator est_MLB_B8) Crash_Intensity_3_(old_PAG) Crash_Intensity_3	S	E					Crash_Intensity_1 = vehicle-dependent reactions in crash Crash_Intensity_2 = vehicle-dependent reactions in the crash Crash_Intensity_3 = vehicle-dependent reactions in a crash The respective vehicle-dependent reactions in the crash are shown in a separate Doors module in the airbag SG. The information remains for every threshold value exceeded for Pass ~10 s (Attention: Energy reserve with disconnected battery is enough worstcase only for 150 ms)
AB_Lamp							0 1	From A	S						Safety warning lamp in the station wagon is switched off by the airbag SG controlled; state of the lamp is indicated on the CAN bus. output (also flashing information).
AB_disabled							0 1	active deactivated	S						Airbag or seatbelt tensioners were deactivated by adjustment: Update only after self-test
AB_VB_disabled							0 1	Passenger airbag_active Passenger airbag_deactivated	S						Held out as an option, passenger airbags were installed per Key switch or occupant detection deactivated
AB_System error							0 1	no_error Airbag_System error	S						System error If necessary, warning lamp is switched on continuously.
AB_Diagnosis							0 1	not_in_diagnosis in_Diagnosis	S						Airbag in diagnosis
AB_Posture test							0 1	not_in_actuator_test Airbag_in_the_actuator_test	S						Information on whether airbag is in actuator test to avoid a Prevent emergency call resolution during actuator test
AB_Erh_On_VB							0 1 2 3	none_display Passenger airbag_deactivated Passenger airbag_activated not_defined	S						When the status of the passenger airbag changes, the driver should (triggered by the passenger occupant detection or the key lock switch) be made aware by one display in the station wagon. Audi only: valid for: AB2 (4-door AU352), B7, C6, D3
AB_Belt_Warning_VF							0 1	no_warning Seatbelt_warning_trigger	S						Driver has not fastened seat belt, display in station wagon
AB_Belt_Warning_VB							0 1	no_warning Seatbelt_warning_trigger	S						Passenger has not fastened seat belt, display in station wagon
AB_display_Fussg							0 1 2	no_FSG_action_outstanding Engine hood_open System error	S						Display for triggered pedestrian protection actuator system
AB_Texts_AKS							0 1 2	no_AKS_triggering AKS_exhausted AKS_System error	S						Text display for pyrotechnical triggering of the active Headrest (AKS)
AB_PAO_Light_Anf							0 1	Switch_off_luminaire Switch_on_luminaire	0						Requirement for the passenger airbag-off light in the Roof console (on / off), use only with PAG
AB_MKB_valid							0 1	Multicollision_braking_not_enabled Multicollision braking_enabled	0						Multi-collision braking in airbag unlocked
AB_MKB_Requirement							0 1	Multicollision_braking_not_requested Multicollision braking_requested	S						Request multi-collision braking
AB_supply voltage							0 1	plausible implausible	S						Transfer of plausibility information Kl.15-load vs. Kl.15-CAN. Operation in case Kl.15-Last "ON" and Kl.15-CAN "OFF" with Output warning/acoustic in the combi.
AB_Deactivation_HV							0 1 2 3 4 5 6 7	none_deactivation Deactivation_1 Deactivation_2 Deactivation_3 Deactivation_4 Deactivation_5 Deactivation_6 Error	S						Deactivation of the HV system and the HV subscribers in the Crash (including hybrid and electric vehicles)
AB_EDR_Trigger							0 1 2 3	No_Event Start_Event NonDeployment_Event Deployment_Event	S						Trigger condition for decentralized recording accident-relevant data in the Event Data Recorder
AB_occupancy_VF							0 1 2 3	not_available Error not_occupied occupied	S						Occupancy detection front driver.
AB_belt_lock_FA_ext							0 1 2 3 4 5 6 7	not_obstructed reserved not_plugged plugged permanent_not_plugged permanent_plugged Init Error	S						The result of the "Seat belt buckle plausibility check" basic function of the abandonment concept is shown in the signal.

Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_belt_lock_FA_ext_active	7	4	1	Cyclic				0			valid value	200 ms							0 1	inactive active	S						This signal indicates whether the Extended Belt diagnostics (result is displayed in signal AB_Gurtschloss_FA_ext shown) is enabled or disabled.
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	AB_eCS_Error	7	5	1	Cyclic				0			valid value								0 1	none_display Display_request	S						Signal to request indication of faults in the system the electric belt lock
Airbag_01	0x040	64	FD	8								void	7	6	2																								
Airbag_01	0x040	64	FD	8	40	10	10	0	Application	Cyclic	5	ASM_Mastertime_02	8	0	8	Cyclic				255			valid value	200 ms	0	254	0 .. 10.16	Unit_Secon	0	0.04	255	Init	S						Master time for all ASM transmitters
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		Airbag_02_CRC	1	0	8	Cyclic							valid value		0	255	0 .. 255		0	1			S						For MLB: " Calculation see specification "Communication protection for FlexRay and CAN"" From MQB and MLBevo: " Calculation see specification "End-to-End Communication backup"" For end values see accompanying document "S-PDU identification sequences Identifier sequence: 0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44,0x44
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		Airbag_02_BZ	2	0	4	Cyclic							valid value		0	15	0 .. 15		0	1			S						
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		LoGeWa_Event_Combi_Warnun	2	4	4	OnChange				0			Init								0 1 2 3 4 5	Init Accident Loss of traction Breakdown Obstruction of view Aquaplaning	0						Event for combination warning
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Request_eCall	3	0	1	Cyclic				0			valid value								0 1	no_requirement Request	0						Trigger for Car2X controller that detected an eCall event was.
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_side_passenger	3	1	1	OnChange				0			not ready	200 ms							0 1	no_impact Impact_recognized	S						Transmission of the position of a collision, impact zone Passenger side side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Attack_Rollover	3	2	1	OnChange				0			not provided	t							0 1	no_impact Impact_recognized	0						Transmission of the position of a collision, rollover detected
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_FGS	3	3	1	OnChange				0			not ready	200 ms							0 1	no_impact Impact_recognized	S						Transmission of the position of a collision, pedestrian protection Actuator
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_front_passenger	3	4	1	OnChange				0			not ready	200 ms							0 1	no_impact Impact_recognized	S						Transmission of the position of a collision, impact zone front Passenger side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_front_driver	3	5	1	OnChange				0			not ready	200 ms							0 1	no_impact Impact_recognized	S						Transmission of the position of a collision, impact zone front Driver's side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_rear_passenger	3	6	1	OnChange				0			not provided	t							0 1	no_impact Impact_recognized	0						Transmission of the position of a collision, impact zone Passenger side rear
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_rear_driver	3	7	1	OnChange				0			not provided	t							0 1	no_impact Impact_recognized	0						Transmission of the position of a collision, impact zone driver's side rear
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_winding_flap_row2_M	4	0	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available error_or_init not_locked Locked	0						Status wrap-around flap 2nd row center, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_occupancy_VB	4	2	2	Cyclic				0	1		valid value								0 1 2 3	not_available Error not_occupied occupied	S						Occupancy detection front passenger. Used in US Control units operated via bladder mat, optional at RdW, if SBE_EuroNCAP is decided.
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Shutdown_SIH_BF	4	4	1	OnChange				0			not provided	t							0 1	Normal operation Shutdown_requested	S						The occupant detection system on the front passenger side prompts for Overtemperature indicates a shutdown of the seat heating. The Overtemperature can occur with low-impedance shunts of the Seat heating mat as a result of too high resulting Current occur.
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_impact_side_driver	4	5	1	OnChange				0			not ready	200 ms							0 1	no_impact Impact_recognized	S						Transmission of the position of a collision, impact zone driver's side Page
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		SC_PAO_Sign_Anf	4	6	2	OnChange				0			valid value								0 1 2 3	LED off LED on LED flashing reserved	S						Setpoint for LED "PASSENGER AIRBAG" in display Passenger Airbag On/Off
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		SC_PAO_ON_Anf	5	0	2	OnChange				0			valid value	200 ms							0 1 2 3	LED off LED on LED flashing reserved	S						Setpoint for LED "ON" in Passenger Airbag On/Off display
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		SC_PAO_OFF_Anf	5	2	2	OnChange				0			valid value	200 ms							0 1 2 3	LED off LED on LED flashing reserved	S						Setpoint for LED "OFF" in display Passenger Airbag On/Off
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Crash severity	5	4	3	OnChange				0	7		valid value	200 ms							0 1 2 3 4 5 6 7	no_event Crash severity_1 Crash severity_2 Crash_heaviness_3 Crash_heaviness_4 Crash_heaviness_5 Crash severity_2_to_5 Error	S						Transmission of the crash severity to the gateway (OBDC)
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Request_USM	5	7	1	Cyclic				0			valid value								0 1	no_requirement Request	S						Trigger for Gateway (OBDC) and MIB/MMI that a USM- Event was detected.
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_FA	6	0	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available (error or init) not_plugged plugged	S	E					Seat belt buckle status driver side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_BF	6	2	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available (error or init) not_plugged plugged	S	E					Seat belt buckle status passenger side
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series2_FA	6	4	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available (error or init) not_plugged plugged	S	E					Seat belt buckle status 2nd row driver's side, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series2_MI	6	6	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available (error or init) not_plugged plugged	S						Belt buckle status 2nd row center, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series2_BF	7	0	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available (error or init) not_plugged plugged	S	E					Belt buckle status 2nd row passenger side, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series3_FA	7	2	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available (error or init) not_plugged plugged	S	E					Seat belt buckle status 3rd row driver's side, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series3_MI	7	4	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available (error or init) not_plugged plugged	S						Belt buckle status 3rd row center, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_belt_lock_series3_BF	7	6	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available (error or init) not_plugged plugged	S	E					Seat belt buckle status 3rd row passenger side, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Sitzpos_Sens_FA	8	0	2	Cyclic				0	1		valid value								0 1 2 3	not available Error Seat not in front Front seat	S						Output seating position driver
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_Sitzpos_Sens_BF	8	2	2	Cyclic				0	1		valid value								0 1 2 3	not available Error Seat not in front Front seat	S						Output seat position passenger

Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_winding_flap_row2_B	8	4	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available Error_or_init not_locked Locked	0						Status wrap-around 2nd row passenger side, extra equipment
Airbag_02	0x520	1312	FD	8	200		20	0	Application	Cyclic		AB_winding_flap_row2_F	8	6	2	OnChange				1			valid value								0 1 2 3	not_obstructed not_available Error_or_init not_locked Locked	0						Status wrap-around 2nd row driver's side, extra equipment
Airbag_eCS_01	0xAF95511	########	FD	8								void	1	0	8																								
Airbag_eCS_01	0xAF95511	########	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_Test_Series3_	2	0	2	Cyclic				0			not ready	200 ms							0 1 2 3	No_action Locked Unlocked Implausible	S	E					Signal for actuator test Rear seat in 3rd SR Passenger side
Airbag_eCS_01	0xAF95511	########	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_Test_Series3_	2	2	2	Cyclic				0			not ready	200 ms							0 1 2 3	No_action Locked Unlocked Implausible	S	E					Signal for actuator test rear seat in 3rd SR driver's side
Airbag_eCS_01	0xAF95511	########	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_test_FA	2	4	2	Cyclic				0			not ready	200 ms							0 1 2 3	No_action Locked Unlocked Implausible	S	E					Signal for actuator test driver's seat
Airbag_eCS_01	0xAF95511	########	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_test_BF	2	6	2	Cyclic				0			not ready	200 ms							0 1 2 3	No_action Locked Unlocked Implausible	S	E					Signal for actuator test passenger seat
Airbag_eCS_01	0xAF95511	########	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_Test_Series2_	3	0	2	Cyclic				0			not ready	200 ms							0 1 2 3	No_action Locked Unlocked Implausible	S	E					Signal for actuator test rear seat in 2nd SR driver's side
Airbag_eCS_01	0xAF95511	########	FD	8	50			0	Application	Cyclic		AB_eCS_Actuator_Test_Series2_	3	2	2	Cyclic				0			not ready	200 ms							0 1 2 3	No_action Locked Unlocked Implausible	S	E					Signal for actuator test Rear seat in 2nd SR Passenger side
Airbag_eCS_01	0xAF95511	########	FD	8								void	3	4	4																								
Airbag_eCS_01	0xAF95511	########	FD	8								void	4	0	40																								
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		ClampControl_01_CRC	1	0	8	Cyclic				0			valid value		0	255	0 .. 255		0	1									For MLB: Calculation see "Communication protection for FlexRay and CAN" specification sheet From MQB and MLBevo: For calculation, see "End-to-end communication protection" specification sheet For end values see accompanying document "S-PDU identification sequences Kennungsfolge: 0x63,0xb6,0x16,0x88,0xac,0x40,0xcc,0x19,0xf6,0x7b,0x29,0xd2 0x9d,0x27,0xd5,0xdf
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		ClampControl_01_BZ	2	0	4	Cyclic				0			valid value		0	15	0 .. 15		0	1									4bit message counter, will be incremented with each send message. Incremented
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Warn_P1_ZAT_def	2	4	1	OnChange				0			valid value								0 1	not_defective defective							Combi Pro Warning Clamp Control Ignition lock defective, visit service!
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Warn_P2_ZAT_def	2	5	1	OnChange				0			valid value								0 1	not_defective defective							Combi Pro Warning Clamp Control Ignition lock defective!
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Deactivation_Trigger	2	6	2	OnChange				0			valid value								0 1 2	NO_DEACTIVATION_SUCCEEDED_0 DEACTIVATION_OVER_ZAT_1 DEACTIVATION_SIMPLIFIED_VLK_2							Output of the deactivation trigger for functions with Goodbye scenario to distinguish between manual and automatic deactivation on vehicle exit
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Kl_S	3	0	1	OnChange				0			valid value								0 1	from S_contact_on							Terminal S: S-contact (key inserted)
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_KL_15	3	1	1	OnChange				0			valid value								0 1	from a	S*		E	E	E	E	Terminal 15: Infeed (SW-Kl.15)
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Kl_50_start request	3	2	1	OnChange				0			valid value								0 1	from KL50_a_start_wish_driver							Terminal 50: Start request driver
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Special_Status	3	3	2	OnChange				0	3		valid value								0 1 2 3	Init Transition_new_requirement Active Error							This is used to signal that a special function is active and terminal 15 has been requested by them or a transition of special functions takes place.
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_exit_desire_status	3	5	1	OnChange				0			valid value								0 1	NO_EXIT_DESIRE_ACTIVE_0 EXIT_DESIRE_ACTIVE_1							Exit request via the functions with goodbye scenario can be triggered centrally.
ClampControl_01	0x12DD54FE	########	FD	8								void	3	6	1																								
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_BulbCheckReq	3	7	1	OnChange				0			valid value								0 1	No_request Request							Signal requests a lamp check (Bulb Check).
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Kl_X	4	0	1	OnChange				0			valid value								0 1	from a							Output of terminal 75 for compatibility reasons for COP- Acquisitions from MDBs.
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Parking_Operation	4	1	1	OnChange				0											0 1	no_operation Parking_out_active							Request to re-lamp check and display of Warnings after a piloted parking maneuver (trigger: falling edge)
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Driver notice_1	4	2	1	OnChange				0			valid value								0 1	inactive active							Signaling driver message 1 of the terminal control to the Combi
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Driver notice_2	4	3	1	OnChange				0			valid value								0 1	inactive active							Signaling driver message 2 of the terminal control to the Combi
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_driver_advice_3	4	4	1	OnChange				0			valid value								0 1	inactive active							Signaling driver indication 3 of the terminal control to the Combi
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_driver_advice_4	4	5	1	OnChange				0			valid value								0 1	inactive active							Signaling driver message 4 of the terminal control to the Combi
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_driver_advice_5	4	6	1	OnChange				0			valid value								0 1	inactive active							Display signal for RemoteStart
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_driver_advice_6	4	7	1	OnChange				0			valid value								0 1	inactive active							Signal activates the combination display instruments (RPM, Tank content, coolant temperature) during activated RemoteStart operation.
ClampControl_01	0x12DD54FE	########	FD	8								void	5	0	2																								
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Txt_Panic shutdown	5	2	1	OnChange				0			valid value								0 1	From A							Text: 'Emergency shutdown"
ClampControl_01	0x12DD54FE	########	FD	8								void	5	3	5																								
ClampControl_01	0x12DD54FE	########	FD	8								void	6	0	1																								
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Anf_Klemmenfreigabe_EL	6	1	1	Cyclic				0			valid value								0 1	not_requested requested							Terminal control requires terminal release by the ELV an.
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_aut_shutdown_Zuendu	6	2	1	OnChange				0			valid value								0 1	Allocation_will_not_be_deactivated_when_used Allocation_will_be_deactivated_when_used							If the low beam was active when the ignition was switched on, After the automatic switch-off of Kl_15 & Kl_S, the parking light must remain active. The signal sends the information that an automatic shutdown of Kl_15 and Kl_S takes place.
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_StPtAcvReq	6	3	2	OnChange				0			valid value								0 1 2	NoActivationRequest StoredActivationRequest CurrentActivationRequest							ZAT-activation-demand
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_StPtDeacReq	6	5	1	OnChange				0			valid value								0 1	NoRequest RequestDeactivatePowertrain							Request deactivation of the drive train through Clamp control
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_ZAT_activated	6	6	1	OnChange				0			valid value								0 1	From A							Ignition start button (ZAT) actuated
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_ComfortReadyStatus	6	7	1	OnChange				0			valid value								0 1	from ComfortReadyStatus_on							State of the ComfortReadyStatus above the comfort functions can be activated.

ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_Special_State_Required	7	0	5	OnChange				0	31		valid value								0 1 2 3 4 5 6 7 8 9 10 11 31	Init RemoteStart RemoteParkAssist IntelligentParkAssist TrainedParking OnlineRemoteUpdate Freeze protection Terminal15ViaDiagnosis Rear wall flapsFusePDC ParkHomePilot trailerHitchAssistant engineContinueShifting Error							This sets the active or currently requested (s. KST_Special_Status) Special function identified
ClampControl_01	0x12DD54FE	########	FD	8	100		10	0	Application	Cyclic		KST_WFS_Drive_Release_Anfor	7	5	2	OnChange				0			valid value								0 1 2	None Unrestricted Restricted							This is used to signal to the immobilizer participants which type of drive release is required by the requesting special function
ClampControl_01	0x12DD54FE	########	FD	8								void	7	7	1																								
ClampControl_01	0x12DD54FE	########	FD	8								void	8	0	8																								
DIA_eCS_Req	0x17FC4206	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_eCS_Req_Data	1	0	64	OnChange							valid value										S*	E					Diagnostics Request Flashing <SG Name>
DIA_eCS_Req_FD	0x1C404206	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_eCS_Req_FD_Data	1	0	512	OnChange							valid value										S*	E					Diagnostics Request Flashing eCS
DIA_eCS_Resp	0x17FE4206	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_eCS_Resp_Data	1	0	64	OnChange							valid value										E*	S					Diagnostic response flashing <SG name>
DIA_eCS_Resp_FD	0x1C424206	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_eCS_Resp_FD_Data	1	0	512	OnChange							valid value										E*	S					Diagnostics Response Flashing eCS
DIA_RGS_HL_Req	0x17FC171E	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_RGS_HL_Req_Data	1	0	64	OnChange							valid value										S*		E				Diagnosis Request Flashing RGS_HL
DIA_RGS_HL_Req_FD	0x1C40171E	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_RGS_HL_Req_FD_Data	1	0	512	OnChange							valid value										S*		E				Diagnosis Request FD RGS_HL
DIA_RGS_HL_Resp	0x17FE171E	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_RGS_HL_Resp_Data	1	0	64	OnChange							valid value										E*		S				Diagnostic response flashing RGS_HL
DIA_RGS_HL_Resp_FD	0x1C42171E	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_RGS_HL_Resp_FD_Data	1	0	512	OnChange							valid value										E*		S				Diagnostic response FD RGS_HL
DIA_RGS_HR_Req	0x17FC171F	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_RGS_HR_Req_Data	1	0	64	OnChange							valid value										S*			E			Diagnosis Request Flashing RGS_HR
DIA_RGS_HR_Req_FD	0x1C40171F	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_RGS_HR_Req_FD_Data	1	0	512	OnChange							valid value										S*			E			Diagnosis Request FD RGS_HR
DIA_RGS_HR_Resp	0x17FE171F	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_RGS_HR_Resp_Data	1	0	64	OnChange							valid value										E*			S			Diagnostic response flashing RGS_HR
DIA_RGS_HR_Resp_FD	0x1C42171F	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_RGS_HR_Resp_FD_Data	1	0	512	OnChange							valid value										E*			S			Diagnostic response FD RGS_HR
DIA_RGS_VL_Req	0x17FC162A	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_RGS_VL_Req_Data	1	0	64	OnChange							valid value										S*				E		Diagnosis Request Flashing RGS_VL
DIA_RGS_VL_Req_FD	0x1C40162A	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_RGS_VL_Req_FD_Data	1	0	512	OnChange							valid value										S*				E		Diagnosis Request FD RGS_VL
DIA_RGS_VL_Resp	0x17FE162A	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_RGS_VL_Resp_Data	1	0	64	OnChange							valid value										E*				S		Diagnostic response flashing RGS_VL
DIA_RGS_VL_Resp_FD	0x1C42162A	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_RGS_VL_Resp_FD_Data	1	0	512	OnChange							valid value										E*				S		Diagnostic response FD RGS_VL
DIA_RGS_VR_Req	0x17FC162B	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_RGS_VR_Req_Data	1	0	64	OnChange							valid value										S*					E	Diagnosis Request Flashing RGS_VR
DIA_RGS_VR_Req_FD	0x1C40162B	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_RGS_VR_Req_FD_Data	1	0	512	OnChange							valid value										S*					E	Diagnosis Request FD RGS_VR
DIA_RGS_VR_Resp	0x17FE162B	########	FD	8				0	TP-ISO	NoMsgSendType		DIA_RGS_VR_Resp_Data	1	0	64	OnChange							valid value										E*					S	Diagnostic response flashing RGS_VR
DIA_RGS_VR_Resp_FD	0x1C42162B	########	FD	64				0	TP-ISO	NoMsgSendType		DIA_RGS_VR_Resp_FD_Data	1	0	512	OnChange							valid value										E*					S	Diagnostic response FD RGS_VR
Diag_eCS_Req_FD	0x1C405206	########	FD	64				0	TP-ISO	NoMsgSendType		Diag_eCS_Req_FD_Data	1	0	512	OnChange							valid value										S	E					UDS diagnosis ISO-TP data channel - FID2NA Request function 0x07 Diagnostic access from DK4 master to DK1/2 node 0x742
Diag_eCS_Resp_FD	0x1C425206	########	FD	64				0	TP-ISO	NoMsgSendType		Diag_eCS_Resp_FD_Data	1	0	512	OnChange							valid value										E	S					UDS-Diganose ISO-TP data channel - FID2NA Response DK1/2 node 0x742 to function 0x07 Diagnostic access from DK4 master
Diag_RGS_HL_Req	0x17FC071E	########	FD	8				0	TP-ISO	NoMsgSendType		Diag_RGS_HL_Req_Data	1	0	64	OnChange							valid value										S		E				Diagnostic channel between diagnostic master and RGS_HL
Diag_RGS_HL_Resp	0x17FE071E	########	FD	8				0	TP-ISO	NoMsgSendType		Diag_RGS_HL_Resp_Data	1	0	64	OnChange							valid value										E		S				Diagnostic channel between diagnostic master and RGS_HL
Diag_RGS_HR_Req	0x17FC071F	########	FD	8				0	TP-ISO	NoMsgSendType		Diag_RGS_HR_Req_Data	1	0	64	OnChange							valid value										S			E			Diagnostic channel between diagnostic master and RGS_HR
Diag_RGS_HR_Resp	0x17FE071F	########	FD	8				0	TP-ISO	NoMsgSendType		Diag_RGS_HR_Resp_Data	1	0	64	OnChange							valid value										E			S			Diagnostic channel between diagnostic master and RGS_HR
Diag_RGS_VL_Req	0x17FC062A	########	FD	8				0	TP-ISO	NoMsgSendType		Diag_RGS_VL_Req_Data	1	0	64	OnChange							valid value										S				E		Diagnostic channel between diagnostic master and RGS_VL
Diag_RGS_VL_Resp	0x17FE062A	########	FD	8				0	TP-ISO	NoMsgSendType		Diag_RGS_VL_Resp_Data	1	0	64	OnChange							valid value										E				S		Diagnostic channel between diagnostic master and RGS_VL
Diag_RGS_VR_Req	0x17FC062B	########	FD	8				0	TP-ISO	NoMsgSendType		Diag_RGS_VR_Req_Data	1	0	64	OnChange							valid value										S					E	Diagnostic channel between diagnostic master and RGS_VR
Diag_RGS_VR_Resp	0x17FE062B	########	FD	8				0	TP-ISO	NoMsgSendType		Diag_RGS_VR_Resp_Data	1	0	64	OnChange							valid value										E					S	Diagnostic channel between diagnostic master and RGS_VR
eCS_01	0xAF95510	########	FD	8								void	1	0	8																								
eCS_01	0xAF95510	########	FD	8								void	2	0	4																								
eCS_01	0xAF95510	########	FD	8	50			0	Application	Cyclic		eCS_Status	2	4	2	Cyclic				0	3		not ready	200 ms							0 1 2 3	Init Locked Unlocked Error	E	S					The eCS SG sends the status of the webbing locked or unlocked (magnet stroke on belt locked or unlocked)
eCS_01	0xAF95510	########	FD	8	50			0	Application	Cyclic		eCS_Stoerung	2	6	1	Cyclic				0			not ready	200 ms							0 1	None_Stoerung Interference	E	S					The eCS signals a sporadic fault or a Communication timeout
eCS_01	0xAF95510	########	FD	8	50			0	Application	Cyclic		eCS_HW_defect	2	7	1	Cyclic				0			not ready	200 ms							0 1	not_defective Defect	E	S					The eCS signals a HW_defect
eCS_01	0xAF95510	########	FD	8	50			0	Application	Cyclic		eCS_belt_lock_status_row	3	0	2	Cyclic				1			not ready	200 ms							0 1 2 3	not_obstructed not_available_error_o_init not_plugged plugged	E	S					The eCS SG sends the status of the credit lock 2.SR Driver to the airbag SG
eCS_01	0xAF95510	########	FD	8	50			0	Application	Cyclic		eCS_belt_lock_status_row	3	2	2	Cyclic				1			not ready	200 ms							0 1 2 3	not_obstructed not_available_error_o_init not_plugged plugged	E	S					The eCS SG sends the status of the credit lock 2.SR Passenger to the airbag SG
eCS_01	0xAF95510	########	FD	8	50			0	Application	Cyclic		eCS_SBS_occupancy_row2_F	3	4	2	Cyclic				2			not ready	200 ms							0 1 2 3	not_available Short_circuit_to_ground not_occupied occupied	E	S					The eCS SG sends the status of the seat occupancy 2.SR Driver on the airbag SG
eCS_01	0xAF95510	########	FD	8	50			0	Application	Cyclic		eCS_SBS_occupancy_row2_B	3	6	2	Cyclic				2			not ready	200 ms							0 1 2 3	not_available Short_circuit_to_ground not_occupied occupied	E	S					The eCS SG sends the status of the seat occupancy 2.SR Passenger on the airbag SG
eCS_01	0xAF95510	########	FD	8								void	4	0	40																								
GPA_01	0xAF954CA	########	FD	8								void	1	0	8																								
GPA_01	0xAF954CA	########	FD	8								void	2	0	4																								
GPA_01	0xAF954CA	########	FD	8	500	10	10	0	Application	Cyclic	5	GPA_Parking_position_achieved_HL	2	4	1	OnChangeWithRepetition	5			0			valid value	200 ms							0 1	Park_position_not_reached Park_position_reached	S		E				RGS_HL has reached the parking position
GPA_01	0xAF954CA	########	FD	8	500	10	10	0	Application	Cyclic	5	GPA_Parking_position_achieved_HR	2	5	1	OnChangeWithRepetition	5			0			valid value	200 ms							0 1	Park_position_not_reached Park_position_reached	S			E			RGS_HR has reached the parking position
GPA_01	0xAF954CA	########	FD	8	500	10	10	0	Application	Cyclic	5	GPA_Parking_position_achieved_VL	2	6	1	OnChangeWithRepetition	5			0			valid value	200 ms							0 1	Park_position_not_reached Park_position_reached	S				E		RGS_VL has reached the parking position
GPA_01	0xAF954CA	########	FD	8	500	10	10	0	Application	Cyclic	5	GPA_Parking_position_achieved_VR	2	7	1	OnChangeWithRepetition	5			0			valid value	200 ms							0 1	Park_position_not_reached Park_position_reached	S					E	RGS_VR has reached the parking position
GPA_01	0xAF954CA	########	FD	8								void	3	0	48																								
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		Airbag_01_CompProtection	1	0	1	Cyclic				0			valid value								0 1	inactive active	S						Function restriction due to component protection active
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		Airbag_01_deactivation stage	1	1	1	Cyclic				0			valid value								0 1	no_restriction Functional limitation	S						Function restriction due to active shutdown stage
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		Airbag_01_Transport_Mode	1	2	1	Cyclic				0			valid value								0 1	no_restriction Functional limitation	S						Function restriction due to active transport mode and/or transport protection
KN_Airbag_01	0x17F00015	########	FD	8								void	1	3	1																								
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		Airbag_01_trailing type	1	4	4	Cyclic				2			valid value								0 1 2	Come_at_KL15_ON Come_after_KL15_AUS Come_at_KL15_AUS	S						The possibility given by the hardware is mapped, to maintain the communication after terminal 15 = OFF. An init value is sent.
KN_Airbag_01	0x17F00015	########	FD	8								void	2	0	24																								
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		KN_Airbag_01_ECUKnockOutT	5	0	6	Cyclic							valid value		0	62	0 .. 62		0	1	63	ECUKnockOut_disabled	S						Output of the ECUKnockOut timer
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		KN_Airbag_01_BusKnockOut	5	6	2	Cyclic				0			valid value								0 1 2 3	Function_not_resolved Veto_active Function_disabled Function_disabled	S						Output of the BusKnockout status
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		KN_Airbag_01_BusKnockOutTi	6	0	8	Cyclic							valid value		0	254	0 .. 254		0	1	255	BusKnockOut_disabled	S						Output of the BusKnockOut timer

KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		NM_Airbag_01_Wakeup	7	0	8	Cyclic				0			valid value								0 1 2 3 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Seat occupancy detection_driver Seat belt buckle detection_driver	0						Contains the wake-up cause; if there are several wake-up causes in parallel, then the smallest value must be transmitted
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		KN_Airbag_01_ECUKnockOut	8	0	2	Cyclic				0			valid value								0 1 2 3	Function_not_resolved Veto_was_active Function_disabled Function_disabled	S						Output of the ECU knockout status
KN_Airbag_01	0x17F00015	########	FD	8								void	8	2	2																								
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		KN_Airbag_01_DiagPath	8	4	1	Cyclic							valid value								0 1	active inactive	S						Marking of the diagnostic capability of the bus interface of a Control unit (node) Scope LAH 80127 To be set explicitly per connected BusInterface when using the signal: MQBw_Baseline on F-CANFD 1 = 0 (active)
KN_Airbag_01	0x17F00015	########	FD	8								void	8	5	2																								
KN_Airbag_01	0x17F00015	########	FD	8	500			0	Application	Cyclic		Airbag_01_KD_error	8	7	1	Cyclic				0			valid value								0 1	No_KD_error KD_error	S						If the bit is set, at least one customer service error registered
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		RGS_HL_CompProtection	1	0	1	Cyclic				0			not provided								0 1	inactive active			0				Function restriction due to component protection active
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		RGS_HL_shutdown stage	1	1	1	Cyclic				0			not provided								0 1	no_restriction Functional limitation			0				Function restriction due to active shutdown stage
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		RGS_HL_Transport_Mode	1	2	1	Cyclic				0			not provided								0 1	no_restriction Functional limitation			0				Function restriction due to active transport mode and/or transport protection
KN_RGS_HL	0x17F000F9	########	FD	16								void	1	3	1																								
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		RGS_HL_trailing type	1	4	4	Cyclic				2			not provided								0 1 2	Come_at_KL15_ON Come_after_KL15_AUS Come_at_KL15_AUS			0				The possibility given by the hardware is mapped, to maintain the communication after terminal 15 = OFF. An init value is sent.
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		RGS_HL_SNI_10	2	0	10	Cyclic				249			valid value								249	RGS_HL_SNI			0				Source Node-Identifier (SNI) identifies the sender of the NM- Message (node address) unique in the vehicle
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		KN_RGS_HL_ECUKnockOut	3	2	2	Cyclic				0			valid value	200 ms							0 1 2 3	Function_not_resolved Veto_was_active Function_disabled Function_disabled			S				Output of the ECU knockout status
KN_RGS_HL	0x17F000F9	########	FD	16								void	3	4	1																								
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		RGS_HL_Local active	3	5	1	Cyclic				0			valid value								0 1	was_not_local_active was_local_active			0				Indicates whether the SG is switched OFF after terminal 15 and switched on after corresponding MAX active time was still active
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		RGS_HL_Subsystem active	3	6	1	Cyclic				0			valid value								0 1	Subsystem_was_not_locally_active was_localactive			0				Indicates whether a subsystem of the SG after terminal15 OFF and was still active after corresponding MAX active time
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		RGS_HL_KD_error	3	7	1	Cyclic				0			not provided								0 1	no_KD_error KD_error			0				
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		KN_RGS_HL_ECUKnockOutTi	4	0	6	Cyclic				0			valid value	200 ms	0	62	0 .. 62		0	1	63	ECUKnockOut_disabled			S				Output of the ECUKnockOut timer
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		KN_RGS_HL_BusKnockOut	4	6	2	Cyclic				0			valid value	200 ms							0 1 2 3	Function_not_resolved Veto_active Function_disabled Function_disabled			S				Output of the BusKnockout status
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		KN_RGS_HL_BusKnockOutTim	5	0	8	Cyclic				0			valid value	200 ms	0	254	0 .. 254		0	1	255	BusKnockOut_disabled			S				Output of the BusKnockOut timer
KN_RGS_HL	0x17F000F9	########	FD	16	500			0	Application	Cyclic		NM_RGS_HL_FCIB	6	0	56	Cyclic				0			valid value								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736 549755813888	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_PreHeater 37_HighVoltage_WirelessChargingStation 40_Diagnosis_Energy			0				FCIB = Function Cluster Initialization Bits
KN_RGS_HL	0x17F000F9	########	FD	16								void	13	0	32																								
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		RGS_HR_CompProtection	1	0	1	Cyclic				0			not provided								0 1	inactive active				0			Function restriction due to component protection active
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		RGS_HR_shutdown stage	1	1	1	Cyclic				0			not provided								0 1	no_restriction Functional limitation				0			Function restriction due to active shutdown stage
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		RGS_HR_Transport_Mode	1	2	1	Cyclic				0			not provided								0 1	no_restriction Functional limitation				0			Function restriction due to active transport mode and/or transport protection
KN_RGS_HR	0x17F000FA	########	FD	16								void	1	3	1																								
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		RGS_HR_trailing type	1	4	4	Cyclic				2			not provided								0 1 2	Come_at_KL15_ON Come_after_KL15_AUS Come_at_KL15_AUS				0			The possibility given by the hardware is mapped, to maintain the communication after terminal 15 = OFF. An init value is sent.
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		RGS_HR_SNI_10	2	0	10	Cyclic				250			valid value								250	RGS_HR_SNI				0			Source Node-Identifier (SNI) identifies the sender of the NM- Message (node address) unique in the vehicle
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		KN_RGS_HR_ECUKnockOut	3	2	2	Cyclic				0			valid value	200 ms							0 1 2 3	Function_not_resolved Veto_was_active Function_disabled Function_disabled				S			Output of the ECU knockout status
KN_RGS_HR	0x17F000FA	########	FD	16								void	3	4	1																								
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		RGS_HR_Local active	3	5	1	Cyclic				0			valid value								0 1	was_not_local_active was_local_active				0			Indicates whether the SG is switched OFF after terminal 15 and switched on after corresponding MAX active time was still active
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		RGS_HR_Subsystem active	3	6	1	Cyclic				0			valid value								0 1	Subsystem_was_not_locally_active was_localactive				0			Indicates whether a subsystem of the SG after terminal15 OFF and was still active after corresponding MAX active time
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		RGS_HR_KD_error	3	7	1	Cyclic				0			not provided								0 1	no_KD_error KD_error				0			
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		KN_RGS_HR_ECUKnockOutTi	4	0	6	Cyclic				0			valid value	200 ms	0	62	0 .. 62		0	1	63	ECUKnockOut_disabled				S			Output of the ECUKnockOut timer
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		KN_RGS_HR_BusKnockOut	4	6	2	Cyclic				0			valid value	200 ms							0 1 2 3	Function_not_resolved Veto_active Function_disabled Function_disabled				S			Output of the BusKnockout status
KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		KN_RGS_HR_BusKnockOutTi	5	0	8	Cyclic				0			valid value	200 ms	0	254	0 .. 254		0	1	255	BusKnockOut_disabled				S			Output of the BusKnockOut timer

KN_RGS_HR	0x17F000FA	########	FD	16	500			0	Application	Cyclic		NM_RGS_HR_FCIB	6	0	56	Cyclic				0			valid value								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736 549755813888	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_PreHeater 37_HighVoltage_WirelessChargingStation 40_Diagnosis_Energy				0			FCIB = Function Cluster Initialization Bits
KN_RGS_HR	0x17F000FA	########	FD	16								void	13	0	32																								
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		RGS_VL_CompProtection	1	0	1	Cyclic				0			not provided								0 1	inactive active					0		Function restriction due to component protection active
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		RGS_VL_shutdown stage	1	1	1	Cyclic				0			not provided								0 1	no_restriction Functional limitation					0		Function restriction due to active shutdown stage
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		RGS_VL_Transport_Mode	1	2	1	Cyclic				0			not provided								0 1	no_restriction Functional limitation					0		Function restriction due to active transport mode and/or transport protection
KN_RGS_VL	0x17F0005E	########	FD	16								void	1	3	1																								
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		RGS_VL_trailing edge type	1	4	4	Cyclic				2			not provided								0 1 2	Come_at_KL15_ON Come_after_KL15_AUS Come_at_KL15_AUS					0		The possibility given by the hardware is mapped, to maintain the communication after terminal 15 = OFF. An init value is sent.
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		RGS_VL_SNI_10	2	0	10	Cyclic				94			valid value								94	RGS_VL_SNI					0		Source Node-Identifier (SNI) identifies the sender of the NMF. Message (node address) unique in the vehicle
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		KN_RGS_VL_ECUKnockOut	3	2	2	Cyclic				0			valid value	200 ms							0 1 2 3	Function_not_resolved Veto_was_active Function_disabled Function_disabled					S		Output of the ECU knockout status
KN_RGS_VL	0x17F0005E	########	FD	16								void	3	4	1																								
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		RGS_VL_Local active	3	5	1	Cyclic				0			valid value								0 1	was_not_local_active was_local_active					0		Indicates whether the SG is switched OFF after terminal 15 and switched on after corresponding MAX active time was still active
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		RGS_VL_Subsystem active	3	6	1	Cyclic				0			valid value								0 1	Subsystem_was_not_locally_active was_localactive					0		Indicates whether a subsystem of the SG after terminal15 OFF and was still active after corresponding MAX active time
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		RGS_VL_KD_error	3	7	1	Cyclic				0			not provided								0 1	no_KD_error KD_error					0		
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		KN_RGS_VL_ECUKnockOutTi	4	0	6	Cyclic				0			valid value	200 ms	0	62	0 .. 62		0	1	63	ECUKnockOut_disabled					S		Output of the ECUKnockOut timer
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		KN_RGS_VL_BusKnockOut	4	6	2	Cyclic				0			valid value	200 ms							0 1 2 3	Function_not_resolved Veto_active Function_disabled Function_disabled					S		Output of the BusKnockout status
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		KN_RGS_VL_BusKnockOutTim	5	0	8	Cyclic				0			valid value	200 ms	0	254	0 .. 254		0	1	255	BusKnockOut_disabled					S		Output of the BusKnockOut timer
KN_RGS_VL	0x17F0005E	########	FD	16	500			0	Application	Cyclic		NM_RGS_VL_FCIB	6	0	56	Cyclic				0			not provided								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736 549755813888	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_PreHeater 37_HighVoltage_WirelessChargingStation 40_Diagnosis_Energy					0		FCIB = Function Cluster Initialization Bits
KN_RGS_VL	0x17F0005E	########	FD	16								void	13	0	32																								
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		RGS_VR_CompProtection	1	0	1	Cyclic				0			not provided								0 1	inactive active						0	Function restriction due to component protection active
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		RGS_VR_shutdown stage	1	1	1	Cyclic				0			not provided								0 1	no_restriction Functional limitation						0	Function restriction due to active shutdown stage
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		RGS_VR_Transport_Mode	1	2	1	Cyclic				0			not provided								0 1	no_restriction Functional limitation						0	Function restriction due to active transport mode and/or transport protection
KN_RGS_VR	0x17F0005F	########	FD	16								void	1	3	1																								
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		RGS_VR_trailing type	1	4	4	Cyclic				2			not provided								0 1 2	Come_at_KL15_ON Come_after_KL15_AUS Come_at_KL15_AUS						0	The possibility given by the hardware is mapped, to maintain the communication after terminal 15 = OFF. An init value is sent.
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		RGS_VR_SNI_10	2	0	10	Cyclic				95			valid value								95	RGS_VR_SNI						0	Source Node-Identifier (SNI) identifies the sender of the NMF. Message (node address) unique in the vehicle
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		KN_RGS_VR_ECUKnockOut	3	2	2	Cyclic				0			valid value								0 1 2 3	Function_not_resolved Veto_was_active Function_disabled Function_disabled						S	Output of the ECU knockout status
KN_RGS_VR	0x17F0005F	########	FD	16								void	3	4	1																								
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		RGS_VR_Local active	3	5	1	Cyclic				0			valid value								0 1	was_not_local_active was_local_active						0	Indicates whether the SG is switched OFF after terminal 15 and switched on after corresponding MAX active time was still active
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		RGS_VR_Subsystem active	3	6	1	Cyclic				0			valid value								0 1	Subsystem_was_not_locally_active was_localactive						0	Indicates whether a subsystem of the SG after terminal15 OFF and was still active after corresponding MAX active time

KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		RGS_VR_KD_error	3	7	1	Cyclic				0			not provided								0 1	no_KD_error KD_error						0	
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		KN_RGS_VR_ECUKnockOutTi	4	0	6	Cyclic				0			valid value		0	62	0 .. 62		0	1	63	ECUKnockOut_disabled						S	Output of the ECUKnockOut timer
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		KN_RGS_VR_BusKnockOut	4	6	2	Cyclic				0			valid value								0 1 2 3	Function_not_resolved Veto_active Function_disabled Function_disabled						S	Output of the BusKnockout status
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		KN_RGS_VR_BusKnockOutTi	5	0	8	Cyclic				0			valid value		0	254	0 .. 254		0	1	255	BusKnockOut_disabled						S	Output of the BusKnockOut timer
KN_RGS_VR	0x17F0005F	########	FD	16	500			0	Application	Cyclic		NM_RGS_VR_FCIB	6	0	56	Cyclic				0			not provided								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736 549755813888	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_PreHeater 37_HighVoltage_WirelessChargingStation 40_Diagnosis_Energy						0	FCIB = Function Cluster Initialization Bits
KN_RGS_VR	0x17F0005F	########	FD	16								void	13	0	32																								
NM_Airbag	0x1B000015	########	FD	24								void	1	0	4																								
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_CBV_AWB	1	4	1	NoSigSendType				0			valid value								0 1	Passive_WakeUp Active_WakeUp	S						The signal is to be set when the SG actively wakes up the bus has 0 = Passive_WakeUp = SG did not actively wake up the network 1 = Active_WakeUp = SG has actively woken up the network
NM_Airbag	0x1B000015	########	FD	24								void	1	5	1																								
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_CBV_CRI	1	6	1	NoSigSendType							valid value								0 1	NM_without_cluster_requirements NM_with_cluster_requirements	S						The signal is permanently set when the NM layout Cluster-. Requirements contains
NM_Airbag	0x1B000015	########	FD	24								void	1	7	1																								
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_FCAB	2	0	56	OnChangeWithRepetition				0			valid value								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736 549755813888	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation 40_Diagnosis_Energy	S		E	E	E	E	FCAB = Function Cluster Active Bits
NM_Airbag	0x1B000015	########	FD	24								void	9	0	64																								
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_SNI_10	17	0	10	NoSigSendType				21			valid value								21	Airbag_01_SNI	S						Source Node-Identifier (SNI) identifies the sender of the NM-. Message (node address) unique in the vehicle
NM_Airbag	0x1B000015	########	FD	24								void	18	2	6																								
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_NM_State	19	0	6	NoSigSendType				0			valid value								0 1 2 4 8 16 32	Init NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS reserved reserved	S						1 = State Repeat Message (<-- Bus-Sleep Mode) 2 = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 = State Normal Operation (<-- Repeat Message) 8 = Normal Operation state (<-- Ready Sleep)
NM_Airbag	0x1B000015	########	FD	24								void	19	6	1																								
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_UDS_CC	19	7	1	NoSigSendType				0			valid value								0 1	Inactive CC_active	S						Function restriction due to active UDS communication Control, see VW80124
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_Wakeup	20	0	8	NoSigSendType				0			valid value								0 1 2 3 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Seat occupancy detection_driver Seat belt buckle detection_driver	S						Contains the wake-up cause; if there are several wake-up causes in parallel, then the smallest value must be transmitted
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_NM_aktiv_KL1	21	0	1	NoSigSendType				0			valid value								0 1	Inactive KL15_ON	S						Control unit has detected KL15-EIN
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_NM_active_Diag	21	1	1	NoSigSendType				0			valid value								0 1	Inactive Diagnosis_active	S						Diagnosis is after VW80124 in a NonDefaultDiagnostic- Session, e.g. ExtendedDiagnostic-Session
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_Airbag_01_NM_active_Tmin	21	2	1	NoSigSendType				0			valid value								0 1	Inactive Minimum active time	S						Minimum active time has not yet expired (for each wake-up event, the minimum active time is restarted).
NM_Airbag	0x1B000015	########	FD	24								void	21	3	1																								
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_Kl15_implausible	21	4	1	NoSigSendType				0			valid value								0 1	Inactive Active	S						The triggering capability remains after SW KL15 On --> Off as long as is maintained until HW Kl15 is also off (and V< parameterizable speed threshold is also detected for a parameterizable time). After that, the triggering capability in the airbag ends and is only reactivated by KL15ON.

NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_seat occupancy	21	5	1	NoSigSendType				0			valid value								0 1	Inactive Active	S						When a change in seat assignment is detected wakes up the airbag to notify the UserStateServer of driver presence or driver absence. At the same time, the airbag must wake up the TSG to avoid a delay due to a cascaded wakeup by the UserStatesServer.
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_trigger_able	21	6	1	NoSigSendType				0			valid value								0 1	Inactive Active	S						The triggering capability is established with KL15 On. The The triggering capability remains after KL15 ON --> OFF until V< "parameterizable speed threshold" is also detected for a parameterizable time (overrun cause). After that, the triggering capability in the airbag ends and is only reactivated by KL15ON.
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_lock	21	7	1	NoSigSendType				0			valid value								0 1	Inactive Active	S						When a change in seat belt buckle status is detected wakes up the airbag to inform the UserStateServer about the information belted / not belted. At the same time the airbag has to wake up the TSG to avoid a delay due to a cascaded wakeup by the UserStatesServer.
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_parking	22	0	1	NoSigSendType				0			valid value								0 1	Inactive Active	S						The airbag must have the SC-CAN to the reversible belt pretensioners Keep awake when the belt parking function is active
NM_Airbag	0x1B000015	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_drive_CAN_active	22	1	1	NoSigSendType				0			valid value								0 1	Inactive Active	S						The airbag must increase the SC-CAN as a SubCAN to the Always keep reversible belt tensioners awake as long as the A- CAN is active.
NM_Airbag	0x1B000015	########	FD	24								void	22	2	6																								
NM_Airbag	0x1B000015	########	FD	24								void	23	0	16																								
NM_RGS_HL	0x1B0000F9	########	FD	24								void	1	0	4																								
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_CBV_AWB	1	4	1	NoSigSendType				0			valid value								0 1	Passive_WakeUp Active_WakeUp			S				The signal is to be set when the SG actively wakes up the bus has 0 = Passive_WakeUp = SG did not actively wake up the network 1 = Active_WakeUp = SG has actively woken up the network
NM_RGS_HL	0x1B0000F9	########	FD	24								void	1	5	1																								
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_CBV_CRI	1	6	1	NoSigSendType				1			valid value								0 1	NM_without_cluster_requirements NM_with_cluster_requirements			S				The signal is permanently set when the NM layout Cluster-. Requirements contains
NM_RGS_HL	0x1B0000F9	########	FD	24								void	1	7	1																								
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_FCAB	2	0	56	OnChangeWithRepetition				0			valid value								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736 549755813888	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation 40_Diagnosis_Energy	E		S	E	E	E	FCAB = Function Cluster Active Bits
NM_RGS_HL	0x1B0000F9	########	FD	24								void	9	0	64																								
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_SNI_10	17	0	10	NoSigSendType				249			valid value								286	RGS_HL_SNI			S				Source Node-Identifier (SNI) identifies the sender of the NM-. Message (node address) unique in the vehicle
NM_RGS_HL	0x1B0000F9	########	FD	24								void	18	2	6																								
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_NM_State	19	0	6	NoSigSendType				0			valid value								0 1 2 4 8 16 32	Init NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS reserved reserved			S				1 = State Repeat Message (<-- Bus-Sleep Mode) 2 = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 = State Normal Operation (<-- Repeat Message) 8 = Normal Operation state (<-- Ready Sleep)
NM_RGS_HL	0x1B0000F9	########	FD	24								void	19	6	1																								
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_UDS_CC	19	7	1	NoSigSendType				0			valid value								0 1	Inactive CC_active			S				Function restriction due to active UDS communication Control, see VW80124
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_Wakeup_V12	20	0	8	NoSigSendType				0			valid value								0 1 2 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Belt_movement_detected			S				Contains the wake-up cause, if there are several wake-up causes in parallel, then the smallest value must be transmitted
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_NM_aktiv_KL15	21	0	1	NoSigSendType				0			valid value								0 1	Inactive KL15_ON			S				Control unit has detected KL15-EIN
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_NM_active_Diag	21	1	1	NoSigSendType				0			valid value								0 1	Inactive Diagnosis_active			S				Diagnosis is after VW80124 in a NonDefaultDiagnostic- Session, e.g. ExtendedDiagnostic-Session
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HL_NM_active_Tmin	21	2	1	NoSigSendType				0			valid value								0 1	Inactive Minimum active time			S				Minimum active time has not yet expired (for each wake-up event, the minimum active time is restarted).
NM_RGS_HL	0x1B0000F9	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_motion_HL	21	3	1	NoSigSendType				0			not provided								0 1	Inactive Active			S				At Kl15 ON->OFF the RGS (VR,VR,HL, HR) go into a local overrun (without bus activity). If seat belt movement is detected within this time, the corresponding RGS wakes up the airbag control unit to start the seat belt parking function (function master is in the airbag). The overrun is then started via the airbag control unit.
NM_RGS_HL	0x1B0000F9	########	FD	24								void	21	4	4																								
NM_RGS_HL	0x1B0000F9	########	FD	24								void	22	0	24																								
NM_RGS_HR	0x1B0000FA	########	FD	24								void	1	0	4																								
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_CBV_AWB	1	4	1	NoSigSendType				0			valid value								0 1	Passive_WakeUp Active_WakeUp				S			The signal is to be set when the SG actively wakes up the bus has 0 = Passive_WakeUp = SG did not actively wake up the network 1 = Active_WakeUp = SG has actively woken up the network
NM_RGS_HR	0x1B0000FA	########	FD	24								void	1	5	1																								
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_CBV_CRI	1	6	1	NoSigSendType				0			valid value								0 1	NM_without_cluster_requirements NM_with_cluster_requirements				S			The signal is permanently set when the NM layout Cluster-. Requirements contains
NM_RGS_HR	0x1B0000FA	########	FD	24								void	1	7	1																								

NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_FCAB	2	0	56	OnChangeWithRepetition				0			valid value								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736 549755813888	init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation 40_Diagnosis_Energy	E		E	S	E	E	FCAB = Function Cluster Active Bits
NM_RGS_HR	0x1B0000FA	########	FD	24								void	9	0	64																								
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_SNI_10	17	0	10	NoSigSendType				0			valid value								287	RGS_HR_SNI				S			Source Node-Identifier (SNI) identifies the sender of the NM- Message (node address) unique in the vehicle
NM_RGS_HR	0x1B0000FA	########	FD	24								void	18	2	6																								
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_NM_State	19	0	6	NoSigSendType				0			valid value								0 1 2 4 8 16 32	init NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS reserved reserved				S			1 = State Repeat Message (<-- Bus Sleep Mode) 2 = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 = State Normal Operation (<-- Repeat Message) 8 = Normal Operation state (<-- Ready Sleep)
NM_RGS_HR	0x1B0000FA	########	FD	24								void	19	6	1																								
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_UDS_CC	19	7	1	NoSigSendType				0			valid value								0 1	inactive CC_active				S			Function restriction due to active UDS communication Control, see VW80124
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_Wakeup_V12	20	0	8	NoSigSendType				0			valid value								0 1 2 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Belt_movement_detected				S			Contains the wake-up cause, if there are several wake-up causes in parallel, then the smallest value must be transmitted
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_NM_aktiv_KL15	21	0	1	NoSigSendType				0			valid value								0 1	inactive KL15_ON				S			Control unit has detected KL15-EIN
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_NM_active_Diag	21	1	1	NoSigSendType				0			valid value								0 1	inactive Diagnosis_active				S			Diagnosis is after VW80124 in a NonDefaultDiagnostic- Session, e.g. ExtendedDiagnostic-Session
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_HR_NM_active_Tmin	21	2	1	NoSigSendType				0			valid value								0 1	inactive Minimum active time				S			Minimum active time has not yet expired (for each wake-up event, the minimum active time is restarted).
NM_RGS_HR	0x1B0000FA	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_movement_HR	21	3	1	NoSigSendType				0			not provided								0 1	inactive Active				S			At Kl15 ON->OFF the RGS (VR,VR,HL, HR) go into a local overrun (without bus activity). If seat belt movement is detected within this time, the corresponding RGS wakes up the airbag control unit to start the seat belt parking function (function master is in the airbag). The overrun is then started via the airbag control unit.
NM_RGS_HR	0x1B0000FA	########	FD	24								void	21	4	4																								
NM_RGS_HR	0x1B0000FA	########	FD	24								void	22	0	24																								
NM_RGS_VL	0x1B00005E	########	FD	24								void	1	0	4																								
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_CBV_AWB	1	4	1	NoSigSendType				0			valid value								0 1	Passive_WakeUp Active_WakeUp					S		The signal is to be set when the SG actively wakes up the bus has 0 = Passive_WakeUp = SG did not actively wake up the network 1 = Active_WakeUp = SG has actively woken up the network
NM_RGS_VL	0x1B00005E	########	FD	24								void	1	5	1																								
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_CBV_CRI	1	6	1	NoSigSendType				1			valid value								0 1	NM_without_cluster_requirements NM_with_cluster_requirements					S		The signal is permanently set when the NM layout cluster-. Requirements contains
NM_RGS_VL	0x1B00005E	########	FD	24								void	1	7	1																								
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_FCAB	2	0	56	OnChangeWithRepetition				0			valid value								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736 549755813888	init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation 40_Diagnosis_Energy	E		E	E	S	E	FCAB = Function Cluster Active Bits
NM_RGS_VL	0x1B00005E	########	FD	24								void	9	0	64																								
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_SNI_10	17	0	10	NoSigSendType				94			valid value								42	RGS_VL_SNI					S		Source Node-Identifier (SNI) identifies the sender of the NM- Message (node address) unique in the vehicle
NM_RGS_VL	0x1B00005E	########	FD	24								void	18	2	6																								
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_NM_State	19	0	6	NoSigSendType				0			valid value								0 1 2 4 8 16 32	init NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS reserved reserved					S		1 = State Repeat Message (<-- Bus-Sleep Mode) 2 = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 = State Normal Operation (<-- Repeat Message) 8 = Normal Operation state (<-- Ready Sleep)

NM_RGS_VL	0x1B00005E	########	FD	24								void	19	6	1																								
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_UDS_CC	19	7	1	NoSigSendType				0			valid value								0 1	inactive CC_active					S		Function restriction due to active UDS communication Control, see VW80124
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_Wakeup_V12	20	0	8	NoSigSendType				0			valid value								0 1 2 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Belt_movement_detected					S		Contains the wake-up cause, if there are several wake-up causes in parallel, then the smallest value must be transmitted
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_NM_aktiv_KL15	21	0	1	NoSigSendType				0			valid value								0 1	inactive KL15_ON					S		Control unit has detected KL15-EIN
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_NM_active_Diag	21	1	1	NoSigSendType				0			valid value								0 1	inactive Diagnosis_active					S		Diagnosis is after VW80124 in a NonDefaultDiagnostic- Session, e.g. ExtendedDiagnostic-Session
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VL_NM_active_Tmin	21	2	1	NoSigSendType				0			valid value								0 1	inactive Minimum active time					S		Minimum active time has not yet expired (for each wake-up event, the minimum active time is restarted).
NM_RGS_VL	0x1B00005E	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_movement_VL	21	3	1	NoSigSendType				0			not provided								0 1	inactive Active					S		At Kl15 ON->OFF the RGS (VR,VR,HL, HR) go into a local overrun (without bus activity). If seat belt movement is detected within this time, the corresponding RGS wakes up the airbag control unit to start the seat belt parking function (function master is in the airbag). The overrun is then started via the airbag control unit.
NM_RGS_VL	0x1B00005E	########	FD	24								void	21	4	4																								
NM_RGS_VL	0x1B00005E	########	FD	24								void	22	0	24																								
NM_RGS_VR	0x1B00005F	########	FD	24								void	1	0	4																								
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_CBV_AWB	1	4	1	NoSigSendType				0			valid value								0 1	Passive_WakeUp Active_WakeUp						S	The signal is to be set when the SG actively wakes up the bus has 0 = Passive_WakeUp = SG did not actively wake up the network 1 = Active_WakeUp = SG has actively woken up the network
NM_RGS_VR	0x1B00005F	########	FD	24								void	1	5	1																								
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_CBV_CRI	1	6	1	NoSigSendType				1			valid value								0 1	NM_without_cluster_requirements NM_with_cluster_requirements						S	The signal is permanently set when the NM layout Cluster-. Requirements contains
NM_RGS_VR	0x1B00005F	########	FD	24								void	1	7	1																								
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_FCAB	2	0	56	OnChangeWithRepetition				0			valid value								0 1 2 4 8 16 32 64 128 256 512 1024 2048 4096 8192 16384 32768 65536 131072 262144 524288 1048576 2097152 4194304 8388608 16777216 33554432 67108864 134217728 268435456 536870912 1073741824 2147483648 4294967296 8589934592 17179869184 34359738368 68719476736 549755813888	Init 01_CarWakeUp 02_Basefunction_Powertrain 03_Basefunction_Chassis 04_Basefunction_DrivingAssistance 05_Basefunction_Infotainment 06_Basefunction_ComfortLight 07_Basefunction_CrossSection 08_Basefunction_Connectivity 09_<reserved> 10_Powertrain 11_Chassis 12_GearSelector 13_Airbag 14_InfotainmentExtensions 15_InstrumentClusterDisplay 16_InfotainmentDisplay 17_Audio 18_VirtualSideMirrors 19_Doors_Hatches 20_OptionalComfort 21_AirSuspension 22_ExteriorLights 23_Climate 24_ThermoManagement 25_AccessSystemSensors 26_HighVoltage_Charging 27_Timemaster_Timer 28_OnboardTester_DataCollector 29_SteeringColumnLock 30_EnergyManagement 31_MultifunctionalSteeringWheel 32_OnlineAccess 33_ExternalWirelessCommunication 34_GPS_Localization 35_ExteriorSound 36_Preheater 37_HighVoltage_WirelessChargingStation 40_Diagnosis_Energy	E		E	E	E	S	FCAB = Function Cluster Active Bits
NM_RGS_VR	0x1B00005F	########	FD	24								void	9	0	64																								
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_SNI_10	17	0	10	NoSigSendType				95			valid value								43	RGS_VR_SNI						S	Source Node-Identifier (SNI) identifies the sender of the NM- Message (node address) unique in the vehicle
NM_RGS_VR	0x1B00005F	########	FD	24								void	18	2	6																								
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_NM_State	19	0	6	NoSigSendType				0			valid value								0 1 2 4 8 16 32	Init NM_RM_out_BSM NM_RM_out_PBSM NM_NO_out_RM NM_NO_out_RS reserved reserved						S	1 = State Repeat Message (<-- Bus-Sleep Mode) 2 = State Repeat Message (<-- Prepare Bus-Sleep Mode) 4 = State Normal Operation (<-- Repeat Message) 8 = Normal Operation state (<-- Ready Sleep)
NM_RGS_VR	0x1B00005F	########	FD	24								void	19	6	1																								
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_UDS_CC	19	7	1	NoSigSendType				0			valid value								0 1	inactive CC_active						S	Function restriction due to active UDS communication Control, see VW80124
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_Wakeup_V12	20	0	8	NoSigSendType				0			valid value								0 1 2 4	Periphery_Wakeup_Cause_not_known Bus_Wakeup KL15_HW Belt_movement_detected						S	Contains the wake-up cause, if there are several wake-up causes in parallel, then the smallest value must be transmitted
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_NM_aktiv_KL15	21	0	1	NoSigSendType				0			valid value								0 1	inactive KL15_ON						S	Control unit has detected KL15-EIN
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_NM_active_Diag	21	1	1	NoSigSendType				0			valid value								0 1	inactive Diagnosis_active						S	Diagnosis is after VW80124 in a NonDefaultDiagnostic- Session, e.g. ExtendedDiagnostic-Session
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_RGS_VR_NM_active_Tmin	21	2	1	NoSigSendType				0			valid value								0 1	inactive Minimum active time						S	Minimum active time has not yet expired (for each wake-up event, the minimum active time is restarted).
NM_RGS_VR	0x1B00005F	########	FD	24	200	20	10	0	NMH	IfActive	3	NM_active_belt_motion_VR	21	3	1	NoSigSendType				0			not provided								0 1	inactive Active						S	At Kl15 ON->OFF the RGS (VR,VR,HL, HR) go into a local overrun (without bus activity). If seat belt movement is detected within this time, the corresponding RGS wakes up the airbag control unit to start the seat belt parking function (function master is in the airbag). The overrun is then started via the airbag control unit.
NM_RGS_VR	0x1B00005F	########	FD	24								void	21	4	4																								
NM_RGS_VR	0x1B00005F	########	FD	24								void	22	0	24																								
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_12_CRC	1	0	8	Cyclic				0			valid value		0	255	0 .. 255		0	1									For MLB: Calculation see "Communication protection for FlexRay and CAN" specification sheet From MQB and MLBevo: For calculation, see "End-to-end communication protection" specification sheet For end values see accompanying document "S-PDU identification sequences Kennungsfolge: 0xd4,0x37,0x91,0x7d,0x5f,0xf3,0xbc,0xa9,0xd2,0x18,0x96,0x46 0xf8,0x6d,0xf5,0x4d
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_12_BZ	2	0	4	Cyclic				0			valid value		0	15	0 .. 15		0	1									4bit message counter, will be incremented with each send message. incremented
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_vehicle network diagnostics	2	4	2	Cyclic				0			valid value	200 ms							0 1 2 3	no_error Warning_1 Warning_2 Warning_3							If an on-board network fault is detected by the NVEM in the NV network, then this should lead to a multi-level display.

NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_Last_Anf	2	6	2	Cyclic				0			valid value								0 1 2 3	No requirement Consumer_Request_Stage_1 Consumer_Request_Stage_2 Consumer_Request_Stage_3							The NVEM requests a load pulse for battery diagnostics from the vehicle, which is generated by controlled consumer switching (e.g. activation of rear window heating).
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_HL_Regulation_Status	3	0	3	Cyclic				0			valid value								0 1 2 3 4 5 7	HL_Control inactive (before and during Motorstart) HL_Control_Stage_1 HL_Control_Stage_2 HL_Control_Stage_3 Consumer emergency shutdown_(VNA) HL_Control_stage_5 Default							Status control heating power
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_shutdown stage	3	3	2	Cyclic				0			valid value								0 1 2 3	Level_0_no_restriction Level_1 Level_2 Level_3	S*		E	E	E	E	Shutdown stage from the rest energy management Actions taken by the recipient are defined in the QLAH Quiescent Current Management.
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_NV_BAT_CellStatus_In	3	5	4	Cyclic				0			valid value								0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Cell_Nr_1 Cell_Nr_2 Cell_Nr_3 Cell_Nr_4 Cell_Nr_5 Cell_Nr_6 Cell_Nr_7 Cell_Nr_8 Cell_Nr_9 Cell_Nr_10 Cell_Nr_11 Cell_Nr_12 Cell_Nr_13 Cell_Nr_14 Cell_Nr_15 Cell_Nr_16							Multiplex signal for cell number of low voltage battery.
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_NV_BAT_ZellStatus_Ty	4	1	3	Cyclic				0			valid value								0 1 2 3 4 5 6 7	Init Voltage Temperature Voltage limit SoC SoH_C reserved reserved							Multiplex signal for cell status of low voltage battery.
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_release_OTA	4	4	2	Cyclic				0			valid value								0 1 2	Init No_release Release							Confirmation or rejection of a specific, requested Online updates through energy management
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_generator diagnostics	4	6	2	Cyclic				0			valid value								0 1 2 3	No display Charge control indicator on (hold-off) red battery symbol and text (generator defective) Hybrid_DCDC_converter_defect							Control generator warning light in station wagon
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_DC_uSoll_NV	5	0	8	Cyclic				116	255		valid value	200 ms	0	216	10.6 .. 16	Unit_Volt	10.6	0.025	255	Error							Set voltage 12V side of DC converter, fine resolution
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_DC_iSoll_NV	6	0	8	Cyclic				254	255		valid value		0	253	-253 .. 0	Unit_Amper	-253	1	254 255	Init Error							Target discharge current 12V side of DCDC converter
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_Batt_Ab	7	0	1	Cyclic				0			valid value								0 1	connected not_connected							Battery connection control: 0x0: Battery on board network 0x1: Battery off detected
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_Red_Indoor_blower	7	1	2	Cyclic				0			valid value								0 1 2 3	No reduction Reduction level 1 Reduction level 2 Reduction stage 2 and compressor shutdown							Reduction indoor fan
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_MV_DC_uMinLV	7	3	7	Cyclic				126	127		valid value	200 ms	0	125	3.5 .. 16	Unit_Volt	3.5	0.1	126 127	Init Error							Setting limit: minimum permitted on-board voltage in the Step-up operation from 12V on-board network to 48V network
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_MV_DC_uSollLV	8	2	7	Cyclic				126	127		valid value	200 ms	0	108	10.6 .. 16	Unit_Volt	10.6	0.05	126 127	Init Error							Setpoint for the 12V on-board voltage in buck mode from the 48V network into 12V on-board network
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_STH_Inhibition to switch on	9	1	1	Cyclic				0			valid value								0 1	full availability auxiliary heating/ventilation Parking heater/ventilation cannot be activated							Restriction of auxiliary heating/ventilation due to BEM: Does the BEM the bit, then the parking heater must no longer switch on (The parking heater does not have to switch off, however, but may continue to burn). (Initialization value from EEprom)
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		BEM_STH_Target time	9	2	4	Cyclic				14	15		valid value		0	12	0 .. 60	Unit_Minut	0	5	14 15	Init Error							Maximum possible time for the parking heater operation to reach the Not to jeopardize launch capability
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_Consumer_Informatio	9	6	3	Cyclic				6	7		valid value								0 1 2 3 4 5 6 7	None_display MMI_prewarning display_consumer shutdown reserved reserved reserved Init error							With this signal, the NVM triggers a display concerning a imminent or completed consumer disconnection from
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM3_Absch_SCR	10	1	1	Cyclic				0			valid value	200 ms							0 1	Init Shutdown_SCR							Shutdown of the SCR heating by the NVEM in the case of energetic critical conditions.
NVEM_12	0x237	567	FD	12								void	10	2	2																								
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_Onboard_Network_Information	10	4	4	Cyclic				14	15		valid value								0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	none_display NV_Battery_iO NV_Battery_charge NV_Battery_check NV_Battery_weak NV_Battery_down NV_Battery_Service NV_Energy_system_implausible Charge_control_light Generator_defect reserved reserved reserved Init error							Information displays to the 12V - on-board network
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_DC_uMin_NV	11	0	8	Cyclic				122			not provided		0	255	0 .. 25.5	Unit_Volt	0	0.1									Minimum voltage of the DCDC converter in step-up mode to 12V side
NVEM_12	0x237	567	FD	12	100			0	Application	Cyclic		NVEM_MV_DC_iSoll_NV	12	0	8	Cyclic				254	255		valid value	200 ms	0	253	-253 .. 0	Unit_Amper	-253	1	254 255	Init Error							Setpoint current specification NVEM to MV - DCDC converter
OBDC_SSN_eCS_Req_FD	0x1C407206	########	FD	64				0	TP-ISO	NoMsgSendType		OBDC_SSN_eCS_Req_FD_Da	1	0	512	OnChange							valid value										S*	E					Request PID to NA communication between: OnboardDiagnoseClient and DK2F Sub-System
OBDC_SSN_eCS_Resp_FD	0x1C427206	########	FD	64				0	TP-ISO	NoMsgSendType		OBDC_SSN_eCS_Resp_FD_D	1	0	512	OnChange							valid value										E*	S					Response PID- to NA- communication between: OnboardDiagnoseClient and DK2F Sub-System
OBDC_SSN_RGS_HL_Req	0x17FC711E	########	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_HL_Req_D	1	0	64	OnChange							valid value										S*		E				OnBoard Tester Diagnostic Request RGS_HL
OBDC_SSN_RGS_HL_Resp	0x17FE711E	########	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_HL_Resp_D	1	0	64	OnChange							valid value										E*		S				OnBoard Tester Diagnostic Response RGS_HL
OBDC_SSN_RGS_HR_Req	0x17FC711F	########	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_HR_Req_D	1	0	64	OnChange							valid value										S*			E			OnBoard Tester Diagnostic Request RGS_HR
OBDC_SSN_RGS_HR_Resp	0x17FE711F	########	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_HR_Resp_	1	0	64	OnChange							valid value										E*			S			OnBoard Tester Diagnostic Response RGS_HR
OBDC_SSN_RGS_VL_Req	0x17FC702A	########	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_VL_Req_Da	1	0	64	OnChange							valid value										S*				E		OnBoard Tester Diagnostic Request RGS_VL
OBDC_SSN_RGS_VL_Resp	0x17FE702A	########	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_VL_Resp_D	1	0	64	OnChange							valid value										E*				S		OnBoard Tester Diagnostic Response RGS_VL
OBDC_SSN_RGS_VR_Req	0x17FC702B	########	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_VR_Req_D	1	0	64	OnChange							valid value										S*					E	OnBoard Tester Diagnostic Request RGS_VR
OBDC_SSN_RGS_VR_Resp	0x17FE702B	########	FD	8				0	TP-ISO	NoMsgSendType		OBDC_SSN_RGS_VR_Resp_	1	0	64	OnChange							valid value										E*					S	OnBoard Tester Diagnostic Response RGS_VR
ORU_01	0x1A5548	########	FD	8								void	1	0	56																								
ORU_01	0x1A5548	########	FD	8								void	8	0	2																								
ORU_01	0x1A5548	########	FD	8	500		100	0	Application	Cyclic		ORU_Warning	8	2	2	OnChange				0			valid value								0 1 2 3	none_display Update_incomplete_Prio1 Update_failed_Prio1 reserved	0*						If, due to malfunctions of the Online Remote Update function it is not ensured that no functional restrictions occur before the customer, the user of the vehicle must be warned accordingly.
ORU_01	0x1A5548	########	FD	8								void	8	4	1																								

ORU_01	0x1A5548	########	FD	8	500		100	0	Application	Cyclic		ORU_Status	8	5	3	OnChange				0			valid value								0 1 2 3 4 5 6 7	IDLE PENDING PREPARATION PREPARATION_HV RUNNING RUNNING_HV PENDING_NOTREADY FAILURE_POWERTRAIN_DISABLED	S*		E	E	E	E	Distribution of the internal ORU state
RadioFunc_01	0x16A9552B	########	FD	12								void	1	0	8																								
RadioFunc_01	0x16A9552B	########	FD	12								void	2	0	4																								
RadioFunc_01	0x16A9552B	########	FD	12	1000		50	0	Application	Cyclic		WLC1_System state	2	4	1	Cyclic				0			valid value								0 1	Wireless_Charger_off InitValue_Wireless_Charger_on							0 = Wireless Charger off (Message produced by HMI) 1 = Wireless Charger on (Message produced by HMI)
RadioFunc_01	0x16A9552B	########	FD	12	1000		50	0	Application	Cyclic		WLC2_System state	2	5	1	Cyclic				0			valid value								0 1	Wireless_Charger_off InitValue_Wireless_Charger_on							0 = Wireless Charger off 1 = Wireless Charger on
RadioFunc_01	0x16A9552B	########	FD	12	1000		50	0	Application	Cyclic		RA_Frequency_unit	2	6	2	OnChange				0			valid value								0 1	1_kHz 100_kHz	S*		E	E	E	E	Factor for RA_Frequency for AM: factor 0 = 1kHz otherwise factor 1 = 100kHz
RadioFunc_01	0x16A9552B	########	FD	12	1000		50	0	Application	Cyclic		RA_Frequency	3	0	14	OnChange				0			valid value		0	16383	0 .. 16383	Unit_None	0	1			S*		E	E	E	E	Transmission of the set transmission frequency AM or FM, this is multiplied by RA_Frequency_unit. In DAB or Hybrid/Online mode, the current FM alternative frequency or, if not available, the last station frequency heard is transmitted (AM xor FM). The CAN bus signal receivers detune their clock-oscillator frequencies, so that the set radio transmission frequency is not disturbed. Only static frequencies are transmitted on the bus.
RadioFunc_01	0x16A9552B	########	FD	12	1000		50	0	Application	Cyclic		RA_AM_Tuning	4	6	1	OnChange				0			valid value								0 1	frequency_locked AM_tuning	S*		E	E	E	E	The signal indicates an active AM search. During of the search run, the frequency = 0 is transmitted. 0 = frequency locked => interference source avoids the current frequency 1 = AM tuning in progress => switch off interference source or switch PWM signal to DC
RadioFunc_01	0x16A9552B	########	FD	12								void	4	7	1																								
RadioFunc_01	0x16A9552B	########	FD	12								void	5	0	64																								
RGS_Anf_01	0x12DD551D	########	FD	16								void	1	0	8																								
RGS_Anf_01	0x12DD551D	########	FD	16								void	2	0	4																								
RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_VL_Requirement	2	4	5	OnChangeWithRepetition				31			valid value	200 ms							0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt park_1 Belt park_2 Function_end Init	S				E		Control of reversible belt tensioner_VL
RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_VR_Requirement	3	1	5	OnChangeWithRepetition				31			valid value	200 ms							0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt park_1 Belt park_2 Function_end Init	S					E	Control of reversible belt tensioner_VR

RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_HL_Requirement	3	6	5	OnChangeWithRepetition				31			valid value	200 ms							0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt park_1 Belt park_2 Function_end Init	S		E				Control of reversible belt tensioner_HL
RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_HR_Requirement	4	3	5	OnChangeWithRepetition				31			valid value	200 ms							0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt park_1 Belt park_2 Function_end Init	S			E			Control of reversible belt tensioner_VL
RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_VL_trailing_2	5	0	1	Cyclic				0			valid value	200 ms							0 1	Caster_2_not_active Caster_2_active	S				E		RGS VL executes the overrun time 2
RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_VR_trailing_2	5	1	1	Cyclic				0			valid value	200 ms							0 1	Caster_2_not_active Caster_2_active	S					E	RGS VR executes the overrun time 2
RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_HL_trailing_2	5	2	1	Cyclic				0			valid value	200 ms							0 1	Caster_2_not_active Caster_2_active	S		E				RGS HL executes the follow-up time 2
RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_HR_trailing_2	5	3	1	Cyclic				0			valid value	200 ms							0 1	Caster_2_not_active Caster_2_active	S			E			RGS HR executes the overrun time 2
RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_trailing_allg	5	4	1	Cyclic				0			valid value	200 ms							0 1	Caster_not_active Caster_active	S		E	E	E	E	RGS perform caster
RGS_Anf_01	0x12DD551D	########	FD	16	500	10	10	0	Application	Cyclic	5	RGS_Loading_permitted	5	5	1	OnChangeWithRepetition				0			valid value	200 ms							0 1	Loosen_not_allowed Loosen_allowed	S		E	E	E	E	Solution release to RGS (e.g. ball stable)
RGS_Anf_01	0x12DD551D	########	FD	16								void	5	6	2																								
RGS_Anf_01	0x12DD551D	########	FD	16								void	6	0	88																								
RGS_HL_01	0x217	535	FD	16								void	1	0	8																								
RGS_HL_01	0x217	535	FD	16								void	2	0	4																								
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Belt speed	2	4	10	OnChange				511	1023		not ready	200 ms	1	1021	-2550 .. 2550	Unit_DegreOfArcPerSecon	-2555	5	0 1022 1023	Infeed_speed_too_high Extract_speed_too_high error	E		S				positive values: belt extension negative values: webbing infeed
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_belt pullout	3	6	12	OnChange				4094	4095		not ready	200 ms	0	4093	-10235 .. 10230	Unit_DegreOfArc	-10235	5	4094 4095	Init Error	E		S				Length of the belt extension
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_no_streamlining_Unt	5	2	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits to the Safety Computer that no tightening is possible due to undervoltage.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_not_programmed	5	3	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits an error to the Safety Computer when no penalty curves are programmed
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Ubertemperatur_def	5	4	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits to the Safety Computer that RGS is defective due to a temperature error.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Component error	5	5	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits a component error to the Safety Computer.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_no_streamlining_Ueb	5	6	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits to the Safety Computer that no tightening due to overtension is possible.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Max_beltless cycles	5	7	1	Cyclic				1			valid value	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Temp	6	0	8	Cyclic				254	255		not ready	200 ms	0	253	-40 .. 86.5	Unit_DegreCelsi	-40	0.5	254 255	Init Error	E		S				RGS rear left transmits temperature to the Safety Computer.
RGS_HL_01	0x217	535	FD	16								void	7	0	1																								
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Undervoltage	7	1	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits undervoltage error to the Safety Computer.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Max_train_cycle_error	7	2	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Max_Haptic_cyclesfeh	7	3	1	Cyclic				1			valid value	200 ms							0 1	Error_active Error_not_active	E		S				The RGS transmits to the airbag that the maximum Strain cycles for haptics is reached
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Crash shutdown	7	4	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits to the Safety Computer that RGS has aborted the tightening process due to a crash event.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Overvoltage	7	5	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits overvoltage error to the Safety Computer.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Motor error	7	6	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits a motor error to the Safety Computer.
RGS_HL_01	0x217	535	FD	16								void	7	7	1																								
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_InPos	8	0	1	Cyclic				0			not ready	200 ms							0 1	Out_of_Position In_Position	E		S				The RGS sets this signal when the inmate is after Start driving to a "normal" position sits quietly (no more belt looseness)
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Current	8	1	8	IfActive				254	255		not ready	200 ms	1	253	0.2 .. 50.6	Unit_Amper	0	0.2	0 254 255	Inactive Init error	E		S				RGS rear left transmits current value to Safety Computer.

RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Status	9	1	5	IfActive				31			valid value	200 ms							0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Faulty_penalty_request Faulty_Straffdurchfuehrung Init	E		S				Response from RGS HL as to which action will be taken.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Max_NGU_Zyklenfeh	9	6	1	IfActive				1			not ready	200 ms							0 1	Error_active Error_not_active	E		S				The RGS transmits to the airbag that the maximum number of Tight cycles for NGU is achieved
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_Max_P2P_cycle_error	9	7	1	IfActive				1			valid value								0 1	Error_active Error_not_active			0				The RGS transmits to the airbag that the maximum number of Tight cycles for Push2Pass is reached.
RGS_HL_01	0x217	535	FD	16	500	10	10	0	Application	Cyclic		RGS_HL_EEPROM_RAM_RO	10	0	1	IfActive				1			valid value	200 ms							0 1	Error_active Error_not_active	E		S				RGS rear left transmits a EEPROM_RAM_ROOM_error to the Safety Computer
RGS_HL_01	0x217	535	FD	16								void	10	1	7																								
RGS_HL_01	0x217	535	FD	16								void	11	0	48																								
RGS_HR_01	0x21B	539	FD	16								void	1	0	8																								
RGS_HR_01	0x21B	539	FD	16								void	2	0	4																								
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Belt speed	2	4	10	OnChange				511	1023		not ready	200 ms	1	1021	-2550 .. 2550	Unit_DegreOfArcPerSecon	-2555	5	0 1022 1023	Infeed_speed_too_high Extract_speed_too_high error	E			S			positive values: belt extension negative values: webbing infeed
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_belt pullout	3	6	12	OnChange				4094	4095		not ready	200 ms	0	4093	-10235 .. 10230	Unit_DegreOfArc	-10235	5	4094 4095	Init Error	E			S			Length of the belt extension
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_no_strengthening_Unt	5	2	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits to the Safety Computer that no tightening is possible due to undervoltage.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_not_programmed	5	3	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS HR transmits an error to the Safety Computer if no penalty curves are programmed
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Ubertemperatur_en	5	4	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits to the Safety Computer that RGS is defective due to a temperature error.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Component error	5	5	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits a component error to the Safety Computer.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_no_streamlining_Ueb	5	6	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits to the Safety Computer that no tightening due to overtension is possible.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Max_beltless cycles	5	7	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Temp	6	0	8	Cyclic				254	255		not ready	200 ms	0	253	-40 .. 86.5	Unit_DegreCelsi	-40	0.5	254 255	Init Error	E			S			RGS rear right transmits temperature to the Safety Computer.
RGS_HR_01	0x21B	539	FD	16								void	7	0	1																								
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Undervoltage	7	1	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits undervoltage error to the Safety Computer.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Max_train_cycle_error	7	2	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits an error to the Safety Computer when the maximum tightening cycles are reached.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Max_Haptic_cyclesfe	7	3	1	Cyclic				1			valid value	200 ms							0 1	Error_active Error_not_active	E			S			The RGS transmits to the airbag that the maximum Strain cycles for haptics is reached
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Crash shutdown	7	4	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits to the Safety Computer that RGS has aborted the tightening process due to a crash event.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Overvoltage	7	5	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits overvoltage error to the Safety Computer.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Motor error	7	6	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits a motor error to the Safety Computer.
RGS_HR_01	0x21B	539	FD	16								void	7	7	1																								
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_InPos	8	0	1	Cyclic				0			not ready	200 ms							0 1	Out_of_Position In_Position	E			S			The RGS sets this signal when the inmate is after Start driving to a "normal" position sits quietly (no more belt looseness)
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Current	8	1	8	IfActive				254	255		not ready	200 ms	1	253	0.2 .. 50.6	Unit_Amper	0	0.2	0 254 255	Inactive Init error	E			S			RGS rear right transmits current value to the Safety Computer.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Status	9	1	5	IfActive				31			valid value	200 ms							0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Faulty_penalty_request Faulty_Straffdurchfuehrung Init	E			S			Response from RGS HR as to which action will be taken.
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Max_NGU_Zyklenfe	9	6	1	IfActive				1			not ready	200 ms							0 1	Error_active Error_not_active	E			S			The RGS transmits to the airbag that the maximum number of Tight cycles for NGU is achieved
RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_Max_P2P_Zyklenfeh	9	7	1	IfActive				1			valid value								0 1	Error_active Error_not_active				0			The RGS transmits to the airbag that the maximum number of Tight cycles for Push2Pass is reached.

RGS_HR_01	0x21B	539	FD	16	500	10	10	0	Application	Cyclic		RGS_HR_EEPROM_RAM_RO	10	0	1	IfActive				1			valid value	200 ms							0 1	Error_active Error_not_active	E			S			RGS rear right transmits a EEPROM_RAM_ROOM_error to the Safety Computer
RGS_HR_01	0x21B	539	FD	16								void	10	1	7																								
RGS_HR_01	0x21B	539	FD	16								void	11	0	48																								
RGS_VL_01	0x3D8	984	FD	16								void	1	0	8																								
RGS_VL_01	0x3D8	984	FD	16								void	2	0	4																								
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Belt speed	2	4	10	OnChange				511	1023		not ready	200 ms	1	1021	-2550 .. 2550	Unit_DegreOfArcPerSecon	-2555	5	0 1022 1023	Infeed_speed_too_high Extract_speed_too_high error	E				S		positive values: belt extension negative values: webbing infeed
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_belt pullout	3	6	12	OnChange				4094	4095		not ready	200 ms	0	4093	-10235 .. 10230	Unit_DegreOfArc	-10235	5	4094 4095	Init Error	E				S		Length of the belt extension
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_noTighteningUnter	5	2	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits to the Safety Computer that no Tightening due to undervoltage is possible.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_not_programmed	5	3	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits an error to the Safety Computer if no penalty curves are programmed
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Ubertemperatur_def	5	4	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits to the safety computer that RGS is defective due to a temperature error.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Component error	5	5	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits a component fault to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_noTighteningUebers	5	6	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS rear left transmits to the Safety Computer that no tightening due to overtension is possible.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_beltless cycles	5	7	1	Cyclic				1			valid value	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits an error to the Safety Computer if the maximum tightening cycles have been reached.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Temp	6	0	8	Cyclic				254	255		not ready	200 ms	0	253	-40 .. 86.5	Unit_DegreCelsi	-40	0.5	254 255	Init Error	E				S		RGS VL transmits temperature to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16								void	7	0	1																								
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Undervoltage	7	1	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits undervoltage error to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_train_cycle_error	7	2	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits an error to the Safety Computer if the maximum tightening cycles have been reached.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_Haptic_cyclesfeh	7	3	1	Cyclic				1			valid value	200 ms							0 1	Error_active Error_not_active	E				S		The RGS transmits to the airbag that the maximum Strain cycles for haptics is reached
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Crash shutdown	7	4	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits to the safety computer that RGS has aborted the tightening process due to a crash event.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_overvoltage	7	5	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS rear left transmits overvoltage error to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Motor error	7	6	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		RGS VL transmits a motor error to the Safety Computer.
RGS_VL_01	0x3D8	984	FD	16								void	7	7	1																								
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_InPos	8	0	1	Cyclic				0			not ready	200 ms							0 1	Out_of_Position In_Position	E				S		The RGS sets this signal when the inmate is after Start driving to a "normal" position sits quietly (no more belt looseness)
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Current	8	1	8	IfActive				254	255		not ready	200 ms	1	253	0.2 .. 50.6	Unit_Amper	0	0.2	0 254 255	Inactive Init error	E				S		RGS VL transmits current value to the safety computer.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Status	9	1	5	IfActive				31			valid value	200 ms							0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Faulty_penalty_request Faulty_Straffdurchfuehrung Init	E				S		Response from RGS VL, which action will be carried out.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_NGU_Zyklenfeh	9	6	1	IfActive				1			not ready	200 ms							0 1	Error_active Error_not_active	E				S		The RGS transmits to the airbag that the maximum number of Tight cycles for NGU is achieved
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_Max_P2P_cycle_error	9	7	1	IfActive				1			valid value								0 1	Error_active Error_not_active					0		The RGS transmits to the airbag that the maximum number of Tight cycles for Push2Pass is reached.
RGS_VL_01	0x3D8	984	FD	16	500	10	10	0	Application	Cyclic		RGS_VL_EEPROM_RAM_RO	10	0	1	IfActive				1			valid value	200 ms							0 1	Error_active Error_not_active	E				S		RGS front left transmits a EEPROM_RAM_ROOM_error to the safety computer.
RGS_VL_01	0x3D8	984	FD	16								void	10	1	7																								
RGS_VL_01	0x3D8	984	FD	16								void	11	0	48																								
RGS_VR_01	0x3D9	985	FD	16								void	1	0	8																								
RGS_VR_01	0x3D9	985	FD	16								void	2	0	4																								
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_belt speed	2	4	10	OnChange				511	1023		not ready	200 ms	1	1021	-2550 .. 2550	Unit_DegreOfArcPerSecon	-2555	5	0 1022 1023	Infeed_speed_too_high Extract_speed_too_high error	E					S	positive values: belt extension negative values: webbing infeed
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_belt pullout	3	6	12	OnChange				4094	4095		not ready	200 ms	0	4093	-10235 .. 10230	Unit_DegreOfArc	-10235	5	4094 4095	Init Error	E					S	Length of the belt extension
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_noTighteningUnter	5	2	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits to the safety computer that no Tightening due to undervoltage is possible.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_not_programmed	5	3	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits an error to the Safety Computer when no penalty curves are programmed
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Ubertemperatur_en	5	4	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits to the Safety Computer that RGS. is defective due to a temperature error.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Component error	5	5	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits a component fault to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_noTighteningAbout	5	6	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS rear right transmits to the Safety Computer that no tightening due to overtension is possible.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_beltless cycles	5	7	1	Cyclic				1			valid value	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits an error to the Safety Computer when the maximum tightening cycles have been reached.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Temp	6	0	8	Cyclic				254	255		not ready	200 ms	0	253	-40 .. 86.5	Unit_DegreCelsi	-40	0.5	254 255	Init Error	E					S	RGS VR transmits temperature to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16								void	7	0	1																								
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Undervoltage	7	1	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits undervoltage errors to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_train cycle error	7	2	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits an error to the Safety Computer when the maximum tightening cycles have been reached.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_Haptic_cyclesfeh	7	3	1	Cyclic				1			valid value	200 ms							0 1	Error_active Error_not_active	E					S	The RGS transmits to the airbag that the maximum Strain cycles for haptics is reached

RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Crash shutdown	7	4	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits to the Safety Computer that RGS. has aborted the tightening process due to a crash event.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Overvoltage	7	5	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS rear right transmits overvoltage error to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Motor error	7	6	1	Cyclic				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	RGS VR transmits a motor error to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16								void	7	7	1																								
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_InPos	8	0	1	Cyclic				0			not ready	200 ms							0 1	Out_of_Position In_Position	E					S	The RGS sets this signal when the inmate is after Start driving to a "normal" position sits quietly (no more belt looseness)
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Current	8	1	8	IfActive				254	255		not ready	200 ms	1	253	0.2 .. 50.6	Unit_Amper	0	0.2	0 254 255	inactive Init error	E					S	RGS VR transmits current value to the Safety Computer.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Status	9	1	5	IfActive				31			valid value	200 ms							0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	no_action Tightening_1 Tightening_2 Tightening_3 Tightening_4 Tightening_5 Tightening_6 Tightening_7 Tightening_8 Tightening_9 Tightening_10 Tightening_11 Tightening_12 Tightening_13 Tightening_14 Tightening_15 Tightening_16 Tightening_17 Tightening_18 Tightening_19 Tightening_20 Tightening_21 Loese curve_2 Crash shutdown Beltless reduction Antipatina Belt parking_1 Belt parking_2 Function_end Faulty_penalty_request Faulty_Straffdurchfuehrung Init	E					S	Response from RGS VR as to which action will be taken.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_NGU_Zyklenfe	9	6	1	IfActive				1			not ready	200 ms							0 1	Error_active Error_not_active	E					S	The RGS transmits to the airbag that the maximum number of Tight cycles for NGU is achieved
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_Max_P2P_Zyklenfeh	9	7	1	IfActive				1			valid value								0 1	Error_active Error_not_active						0	The RGS transmits to the airbag that the maximum number of Tight cycles for Push2Pass is reached.
RGS_VR_01	0x3D9	985	FD	16	500	10	10	0	Application	Cyclic		RGS_VR_EEPROM_RAM_RO	10	0	1	IfActive				1			valid value								0 1	Error_active Error_not_active	E					S	RGS front right transmits a EEPROM_RAM_ROOM_error to the Safety Computer
RGS_VR_01	0x3D9	985	FD	16								void	10	1	7																								
RGS_VR_01	0x3D9	985	FD	16								void	11	0	48																								