

Electronic transmission control (EGS) fault patterns

Impact of bus faults

If individual bus signals fail that are not stored in the fault code memory

- - First, perform troubleshooting on the corresponding transmitter control unit.
 - If the transmitter control unit is OK, troubleshooting must be run on the receiver control unit.

Possible fault symptom or perception on failure of the corresponding bus signal	Faulty or missing signal	Transmitter control unit
No EGS function	Key_in_ignition_status	CAS
Terminal 15 not detected	Terminal_15_status	CAS
P not automatically engaged	FAT_door_switch_status	CAS
Substitute programme (electronic emergency mode) no gear engageable	Engine_speed	DME1
Substitute programme (electronic emergency mode)	DME_alive_torque	DME1
Substitute programme (electronic emergency mode)	DME_torque_checksum	DME1
Substitute programme (electronic emergency mode)	Actual_torque	DME1
Substitute programme (electronic emergency mode)	Engine_speed_error	DME1
Unwanted gear changes	Engine_air_pressure	DME1
No gear engageable	DME1_brake_pedal_contact_status	DME1
Substitute gear shift programme	Cruise_control_status	DME1
Forced to stay in current gear shift programme	Warmup_switch_status	DME1
Incorrect gear shift programme	Accelerator_pedal_angle	DME1
Vehicle rolls back unexpectedly on uphill gradient	Brake pressure	DSC
Unwanted gear changes	Gear_shift_intervention_request	DSC
Corners and gradients not detected	DSC_longitudinal_acceleration	DSC

Possible fault symptom or perception on failure of the corresponding bus signal	Faulty or missing signal	Transmitter control unit
Corners and gradients not detected	DSC_lateral_acceleration	DSC
Corners not detected/no L-R speed delta/no gear engageable	Rear_left_wheel_speed	DSC
Corners not detected/no L-R speed delta/no gear engageable	Rear_right_wheel_speed	DSC
Unwanted gear changes (gear shift intervention)	Front_left_wheel_speed	DSC
Unwanted gear changes (gear shift intervention)	Front_right_wheel_speed	DSC
No gear engageable	Brake_pedal_contact_status	DSC
Corners not detected	DSC_yaw_angular velocity	DSC
Triggers engagement of P	Transmission_Park_position_control	EMF
No EGS function when hardware shuts down	Battery_master_switch_status	Power
Spontaneous activation of P	Peak_reduction_priority_control	Power
Incorrect engagement of P/manual engagement of P not possible	Transmission_selector_button_P_1_operation	SZL
Sports programme not possible	Transmission_selector_button_Sports_operation	SZL
Steptronic not possible	Steptronic_button_operation	SZL
EMF fails to release	Terminal_15_status	CAS
Easy open function remains active	Bonnet_switch_status	CAS
Failure to release/hold when vehicle stationary (engine off)	Key_in_ignition_status	CAS
Failure to release/hold when vehicle stationary (engine off)	Key_in_ignition_status	CAS
ACC not functioning/deactivated	Powertrain_reinforcement	EGS

Possible fault symptom or perception on failure of the corresponding bus signal	Faulty or missing signal	Transmitter control unit
ACC not functioning/deactivated	Transmission_gear_status	EGS
ACC not functioning/deactivated	Transmission_gear_indication_control	EGS
ACC not functioning/deactivated	Transmission_fault_indication_control	EGS
MIL lamp activation, relevant OBD fault	Transmission_OBD_fault_status	EGS
MIL lamp activation, relevant OBD fault	Transmission_OBD_status	EGS
1. Torque control deactivated. 2. ACC DSC deactivated. 3. Consequence: EGS switches to emergency mode	EGS_alive_torque	EGS
EGS deactivated, consequence: Emergency operation	EGS_specified_torque	EGS
EGS deactivated, consequence: Emergency operation	EGS_torque_checksum	EGS
EGS deactivated, consequence: Emergency operation	EGS_positive_range_specified_torque	EGS
Transmission emergency programme	Pull_away_torque_limitation_status	EGS
Torque adjustment not carried out	EGS_specified_torque_status	EGS
No cruise control, no easy start, ability to start at risk	Transmission_gear_status	EGS
DSC lamp activated/DSC inactive/ABS OK	Transmission_gear_status	EGS
DSC and ACC inactive/ABS OK	Transmission_output_speed	EGS
Current status of transmission not identifiable on instrument cluster. Gear indicator arrows flash, position indicator in locator lighting, gear indicator dark	Transmission_fault_indication_control	EGS

Possible fault symptom or perception on failure of the corresponding bus signal	Faulty or missing signal	Transmitter control unit
All arrows on instrument cluster flash, locator lighting on	Arrow_display_control	EGS
No reversing lights	Transmission_gear_status	EGS
PDC not activated by reverse gear, only by button	Transmission_gear_status	EGS

Abbreviations	Full expression
ACC	Active Cruise Control
CAS	Car Access System
DSC	Dynamic Stability Control
EGS	Electronic transmission control
SZL	Steering column switch centre