Groups 060 - 069: Throttle Valve Control

060	ESB adaption			**Vehicles with ESB**
	Throttle valve angle (potentiometer)	Throttle valve angle (potentiometer)	Operating condition	Adaption condition
	[%]	[%]	Text: (Idle, partial load, full load, deceleration enrichment, acceleration enrichment)	Text: (ADP runs/ADP OK/ ERROR[1])
060	E-Gas adaption			**Vehicles with E-Gas**
	Throttle valve angle (potentiometer 1)	Throttle valve angle (potentiometer 2)	Electrically controlled throttle valve adaption status	Operating condition
	[%]	[%]	[n]	Text: ADP runs/ADP OK/ ERROR
061	ESB/E-Gas		**Systems without separation for rear window defroster /A/C readiness**	
	RPM	Supply voltage Ubat	Triggering throttle valve control	Operating condition
	[1/min]	[V]	[%] if possible	0xxx [2] │││└─ A/C │││ compressor ON ││└── driving ││ range selected │└──── A/C readiness/ r rear window defroster ON │ └──────always 0
061	ESB/E-Gas		**Systems with separation for rear window defroster /A/C readiness**	
	RPM	Supply voltage Ubat	Actuating throttle valve control	Operating condition
	[1/min]	[V]	[%]	xxxx 15 │││└─A/C │││ compressor ON ││└──driving ││ range selected │└────A/C readiness │ ON └──────Rear window defroster ON
062	E-Gas, potentiometer voltage relationship U/U_{ref}			
	Angle sensor 1 for throttle valve drive (0->100%)	Angle sensor 2 for throttle valve drive (0->100%)	Sensor 1 accelerator pedal position (0->100%)	Sensor 2 accelerator pedal position (0->100%)
	[%]	[%]	[%]	[%]
063	Kick-down adaption			

	Sensor 1 accelerator pedal position (0->100%)	Sensor 1 learned Kick-down point (0->100%)	Switch	Result
	[%]	[%]	Kick-down	Actuated; ADP runs; ADP OK; ERROR
064	Throttle valve potentiometer adaption values			
	Potentiometer 1 lower adaption	Potentiometer 2 1 lower adaption	Emergency air gap potentiometer 1	Emergency air gap potentiometer 2
	[V]	[V]	[V]	[V]
065				
066	Cruise control switched free for **4 position operating lever**			
	Vehicle speed actual	Switch positions	Vehicle speed specified	Switch positions
	[km/h]	xxxxxxxx | | | | | | | └brake light switch | | | | | | |Pedal pressed | | | | | | └brake pedal switch | | | | | | Pedal pressed | | | | | └─────clutch switch | | | | | Pedal pressed | | | | └─────CC function switched free | | | └──────ADR-Function switched free | | | | | └──────not used | | 00 ADR/CC not active (also used for not installed) 01 ADR/CC in control mode 10 Condition „over controlled", driver accelerates more than cruise control regulator 11 ADR not released 1: Condition fulfilled 0: Condition not fulfilled	[km/h] in 1 km/h-steps (only displayed when cruise control function is freely switched)	For 4 position operating lever xxxxxxxx | | └CC ON / OFF | | └memory set | | /CC OFF | └─Set /tip down / | decelerate └─Resume / Tip up/ acceleration ----0000 CC engaged OFF ----0001 CC tipped OFF ----0011 CC engaged ON (stand by) ----01x1 Set/Tip down/ decelerate ----1011 Resume/Tip up/ accelerate
066	Cruise control switched free for **6 position operating lever**			
	Vehicle speed actual	Switch positions	Vehicle speed specified	Switch positions

[km/h]	xxxxxxxx	[km/h]	For 6 position operating lever
	│ │ │ │ │ │ │ └ brake light switch │ │ │ │ │ │ │ Pedal pressed │ │ │ │ │ │ └ brake pedal switch │ │ │ │ │ │ Pedal pressed │ │ │ │ │ └── clutch switch Pedal pressed │ │ │ │ └── CC function switched free │ │ │ │ └────ADR function switched free │ │ │ │ │ └─── not used │ │ 00 ADR/ CC not active (also used for not installed) 01 ADR/ CC in control mode 10 Condition „over-controlled", driver accelerates more than cruise control regulator 11 ADR not released 1: Condition fulfilled 0: Condition not fulfilled	in 1 km/h-steps (is only issued with freely switched cruise control function)	xxxxxxxx │ │ │ │ │ │ └CC ON /OFF engaged │ │ │ │ │ │ └ (CAN) └CC tipping, yes/no │ │ │ │ │ Memory set │ │ │ │ └─Tip down / decelerate │ │ │ └─ Tip up/ accelerate │ │ └ Set │ └ Resume └ CC ON/OFF engaged (Hardware PIN) 0-000000 CC engaged OFF 1-000001 CC engaged ON (stand-by) 1-000011 CC tipped OFF 1-000101 Tip down/decelerate 1-001001 Tip up/accelerate 0-010000 Set (with CC engaged OFF) 1-010001 Set (with CC engaged ON) 1-100001 Resume
067			
068			
069			

[1] ADP ERROR = in emergency mode

[2] Condition fulfilled = 1; Condition not fulfilled = 0