ENTWURF

D (Standard former) D Name E S S S S S S S S S S S S S S S S S S	Darla	-							10408												1
10 1118h Name 10 1118h 118h 118h	ansor a						(Data definition) Value				П		Signal behi	avior condition		Note		about C		ļ	
11bit Name (6.03.09 W	\$ F	lata Lengi	Data name	Byte Assign	Ba	3		Normal value				Normal	Normal operation		Signal behavior ach system condition Special condition		Fi Fi	alure handing			
38 -	an angle	DATA(byte) D			Bit Assign	75 69 5 9 9 9 Unit	LSB	Offset	Range	e (Unit)	Invalid value	Ordinary	Relevant	Initi	ial check	Text mode					
	3 3	DAT							Min value	Max value		condition	Failure Occur	value	Valid value available timing			ABS ECU	Meter ECU	FI-ECU	Lean angle sensor
1 1 111			Front ABS control status Rear ABS control status	Byte 0	Bit 7 Bit 6	1		0: i 1: so 0: i 1: so	de tive de			Normal	0	0	Initial check is over Initial check	0					H
1 1 1111			Reserved Reserved		Bit 5-0 Bit 73	6 5			Reserved		-	Normal			is over						
				Byte 1				1: Lamp	0 : Lamp "off" "on" due to ABS failu Diagnostic Mode (Tes 3 : Not Defined 4 : Not Defined on" due to self diagno	are.											
0x12A ABS info ○ ○ ●	5	50 8	ABS Warning Lamp (ABS_ABS_State)		Bit 2.0	3		Z : ABS ECU in	Diagnostic Mode (Tes 3: Not Defined 4: Not Defined	st Mode)		Normal	1	1	Initial check is over	2					
								7 : MSC	6 : Not defined Failure(CABS failure))											
			Reserved Reserved Reserved	Byte 2 Byte 3 Byte 4	Bit 7_0 Bit 7_0 Bit 7_0	8 8			Reserved Reserved												
			Reserved Reserved Reserved	Byte 5 Byte 6	Bit 7_0 Bit 7_0 Bit 7_0	8 8			Reserved Reserved Reserved												
	Т		Front Speed (High)	Byte 0	Bit 70	16 kph	0,05625	0	0	400	-	Normal	Normal	Normal	after 1sec from system start	Normal					
			Front Speed (Low) Rear Speed (High)	Byte 1 Byte 2	Bit 70	16 kph	0,05625		0	400	-	Normal	Normal		after 1sec	Normal	operating max speed is derived from vehicle specifications				
0x12B Wheel speed info ○ ○ ●	1	0 8	Rear Speed (Low)	Byte 3	Bit 70 Bit 73		0,0025		Reserved			Normal	reorma	Normal	from system start	reorma					
			Failure - Validity Rear wheel speed	Byte 4	Bit 2	1		0 : Rear Wheel 1: Rear Wheel	Speed nomal Speed failure		-	0	1	0	after 1sec from system start	0					
			Reserved Failure - Validity Front wheel speed	-,	Bit 1 Bit 0	1		0 : Front Whee	Reserved Speed normal		-	0	1	0	after 1sec from system	0					
	$^{+}$	\top	Front Wheel Caliper (High)	Byte 0	Bit 70	8 bar	0,0625	T -	0	255,875	FFFh	Normal	FFFh	0	after 1sec	Normal					
			Front Wheel Caliper (Low)	Byte 1	Bit 74	4		0: Front Wheel				-			from system start after 1sec from system						
			Failure - Validity Front Wheel Caliper Reserved		Bit 3 Bit 2_0	2		0: Front Wheel 1: Front Wheel	Calper Failure Reserved		-	0	1	0	atart	Normal					
			Front Master Cylinder (High) Front Master Cylinder (Low)	Byte 2	Bit 70	8 bar	0,0625	-	0	255,875	FFFh	Normal	FFFh	0	after 1sec from system start	Normal					
			Failure - Validity Front Master Cylinder	Byte 3	Bit 3	1		0: Front Master 1: Front Master	Cylinder Normal Cylinder Failure		-	0	1	0	after 1sec from system	Normal					
0x290 Pressure Sensor info O •	1	10 8	Reserved Reserved (High)	Byte 4	Bit 2.0 Bit 70	8			Reserved						after 1sec						=
			Rear Wheel Caliper (Low)		Bit 74	4 bar	0,0625	-	0	255,875	FFFh	Normal	FFFh	0	from system start	Normal					
			Failure - Validity Rear Wheel Caliper	Byte 5	Bit 3	1		0: Rear Wheel 1: Rear Wheel	Calper Normal Calper Failure Reserved		-	0	1	0	after 1sec from system start	Normal					_
			Reserved Rear Master Cylinder (High)	Byte 6	Bit 70	3 8 bar	0,0625	-	Neserved 0	255,875	FFFh	Normal	FFFh	0	after 1sec from system	Normal					
			Rear Master Cylinder (Low) Failure - Validity	Byte 7	Bit 74	4	1	0: Rear Master 1: Rear Master			-	0	1		from system start after 1sec from system					_	-
	1	\perp	Rear Master Cylinder Reserved		Bt 2.0	3		1: Rear Master	Cylinder Failure Reserved			L°	<u> </u>	0	atart	Normal					\vdash
			ENG RPM (High) ENG RPM (Low)	Byte 0 Byte 1	Bit 70	16 1/min	1	0	0 (0000h)	20000 (4E20h)	0xFFFF	Normal	Normal	Normal	after 1sec from system start	Normal					
			Accel position	Byte 2	Bit 70	8 5	100/255	0	0 (00h)	100 (FFh)	-	Normal	Normal	Normal	after 1sec from system start	Normal					
			ENG RPM signal failure		Bit 7	1		0: no 1: fa			-	Normal	1	0	after 1sec from system start	Normal					
			Accel position signal failure		Bit 65	2		0: ni 1: fa			-	0	1	0	after 1sec from system start	Normal					
			Side Stand	Byte 3	Bit 4	1		0: Sides 1: Sidest			-	0	1	0	after 1sec from system start	Normal					
0xXXX Engine data	2	20 8	Reverse Gear information (evtl.needed for VHC - to be discussed)		Bit 3	1		0: Reverse ges 1: Reverse g			-	0	0	0	after 1sec from system start	Normal					
			Engine Kill Switch (evtl. needed for VHC - to be discussed)		Bit 2	1		0: Engine Kill Swi 1: Engine Kill S			-	0	0	0	after 1sec from system start	Normal					
			Reserved Reserved	Byte 4	Ba 1 0	2 8			Reserved Reserved						start						
			Reserved Reserved	Byte 4 Byte 5 Byte 6		8		(0 init) →1→2− 1→2→3→	Reserved Reserved +3456												
			Alive counter	Byte 7	Bit 75	3		1- Define Bit 4~Bit 0 o	f Σ (Byte 0~6) as		-	Normal		0		Normal					\vdash
	+	+	Check SUM ENG actual torque (High)	Byte 0	Bit 40	5		Chec	-1000	1000		Normal	-		after 1sec	Normal					
			ENG actual torque (Low)	Byte 1	Bit 70	16 Nm	0,2		-1000 (EC78h)	(1388h)	7FFF h	Normal	Normal	0	from system start	Normal					
			Reserved Reserved	Rute 2 Rute 3	Ri-7 ft	8		0: no 1: fa	Reserved Reserved		I	0			after 1sec						_
0xXXX Engine data	2	20 8	Signal Failue Reserved Reserved	Byte 4	Bit 7	7			Reserved Reserved		-	0	1	0	from system start	Normal					
			Reserved	Rute S Rute S	Ri-7 ft	8	Reserved Reserved (0 int) →1→2→3→4→5→6→ 1→2→3→4→5→6→			Г										=	
			Alive counter	Byte 7	Bit 75	3		1-Define Bit 4~Bit 0 o			-	Normal	-	0		Normal value					-
	+	+	Check SUM Reserved Reserved	Byte 0 Byte 1	Bit 40 Rie 7.0 Rie 7.0	8		UNIC	Reserved		_	Normal value	_			Normal value					\vdash
			Reserved	Byte 3	Ra 7 ft	8 8			Reserved Reserved												
0xXXX Dashboard data 0xXXX (evtl. needed for VHC - to be discussed)	5	50 8	Reserved Reserved	Byte 4 Byte 5 Byte 6	Re 7 ft Re 7 ft Re 7 ft	8 8			Reserved Reserved Reserved												
			VHC setting (evtl. needed for VHC - to be discussed)	Byte 7	Bit 4	1		0: VHC func 1: VHC func			-	Normal	0	0		Normal					
	+	+		Byte 1	Bit 3_0 Bit 7_0	4 8			Reserved Reserved												
			Reserved ABS_VHC_Central Reserved	Byte2	Bit 7_4 Bit 3	1 3		0: VHC contr 1: VHC con	ol not active strol active		-	Normal	0	0		Normal					
0x5A0 ABS Feature Control ○ ●	9	8 8	Reserved Reserved Reserved Reserved	Byte 4	Bit 7_0 Bit 7_0 Bit 7_0 Bit 7_0	8			Reserved Reserved Reserved												
	=		Reserved Reserved Alive counter	Byte 6	Bit 7_0 Bit 7_5	3		(0 init) →1→2− 1→2→3→	Reserved +3-+4-+56 456		- I	Normal		0		Normal					F
			Alive counter Check SUM	Byte7	Bit 40	5		Define Bit 4~Bit 0 o Checl	 f″Σ(Byte 0~6) as kSUM		-	Normal	-			Normal					-
	+	+		Byte 0	Bit 7_0 Bit 7_0		0,005		-163,84	163,83	FFFFh	- No-THE		_							
							xx00 = no un xx	dervolatge/overvoltage 10 = overvoltage det	ge. xx01 = undervolt ected xx11 = reserve	tage detected ed ad											
			CLU-STAT	Byte 2	Bit 30	4		x1xx = synchronisatio 0xxx = no synchronis 1xxv =	ion underflow detects in underflow detected ation failure detected synchr	 d	-										
			YawRate_Stat			4	xe	xe00 = Signal O.K. xx01 = Sensor not available xx10 = Signal failure xx11 = reserved				1									
0x174 DRS_TxID1 O	1	0 8	Reserved	Byte 3	Bit 74 Bit 70	8	xx00 = Signal O.K. xx01 = Sensor not available xx10 = Signal failure xx11 = measured x1 xx = Initialization is ununing s0xx = Initialization is ready 1xxx = reserved 0xxx = reserved Reserved				-		Refer corresponding sp			ec					<u> </u>
			AYI (Low) AYI (Hish)	Byte 4 Byte 5	Bit 7_0 Bit 7_0	8 8	0,000127465	-4,1768	-4,1768	4,1765	FFFFh	1									
			AYI,STAT Byte 6			4	x1xx = 1	xx10 = Signal failur intialisation is running 1xxx = reserved	I = Sensor not available xx11 = reserved g x0xx = Initialization i 0xxx = reserved	is ready	-										
			Mag_Crit		Bit 30	4	0 ->	> 1-> 2 -> 3 -> 4 -> -> A -> B -> C -> I	5 -> 6 -> 7 -> 8 -> 5 > -> E -> F -> 0	9->	-	1									
	+	+	CRC Roll rate (Low) Roll rate (Hish)	Date 0	Bit 7_0 Bit 7_0 Bit 7_0	8 8 deg/sec	0,005	-163,84	J1850 standard -163,84	163,83	FFFFh										Ħ
			CLU_STAT5		Bit 30	4		CLU STATS 0: CLU STATS 1: CLU STATS 2: CLU STATS 3: DEL	DIAG,BYTE,NR DIAG,BYTE,NR DIAG,BYTE,NR		-										
				Byte 2			xe	CLU STATS 3: DEL	EHR MEM STATUS	ble		1									-
0x178 DRS_TxlD2 O	• 1	0 8	RollRate_Stat		Bit 74	4	xx00 = Signal O.K. xx01 = Sensor not availal xx10 = Signal failure xx11 = reserved x1 xx = Initialization is running s0xx = Initialization 1xxx = reserved 0xx = reserved 0				-	Refer corresponding spec									Ш
			CLU,DIAG AX1 (Leav)	Byte 3 Byte 4	Bk 7.0 8 Bk 7.0 8 Bk 7.0 4		Diagnosis, Serial ASCII Code 0,000127465 -4,1768 -4,1768 4,1765			- FFFFh	1									\vdash	
			AX1 (High) Mag Cert	Byte 6	Bit 30	4	0 ->	> 1-> 2 -> 3 -> 4 -> -> A -> B -> C -> [5->6->7->8->5 0->E->F->0	9->	-	1									
	+	+	AX1 STAT CRC Pitch Rate Pitch Rate	Byte 7	Bit 7_4 Bit 7_0 Bit 7_0 Bit 7_0	8	xx00 = Signal O.K. xx01 = Sensor not available					1									
						8 04g/160		00 = Signal O.K. xx0 xx10 = Signal failur	-1613.64 163.83 FFFFh												
			PitchPoint Shat Byte 2 Bit 7.				x1 xx = 1	Initialization is running 1xxx = reserved	g x0xx = Initialisation i 0xxx = reserved 0001 = MM/7 *^	is ready		1									
0x17C DRS_TxID3 O	• 1		HW-Index Reserved Az - vertical acc (Low) Az - vertical acc (Heh)	4 4 8 8 g	0,000 = MMS.10 0001 = MM7.10 Reserved 0,000127465 -4,1768 -4,1768 4,1765			FFFFh	Refer corresponding spec			nding spec		,							
			Az - vertical acc (Harh) Mag Crit	Bit 30	4	0 -> 1-	-> 2 -> 3 -> 4 -> 5 - A -> B -> C -> D ->	> 6 -> 7 -> 8 -> 9 -> E -> F -> 0													
			AZ,STAT	Byte 6	Bit 74	4	x1 xx = 1	UU = Signal O.K. xx0: xx10 = Signal failus Initialisation is running	= Signal O.K. xx01 = Sensor not available xx10 = Signal failure xx11 = reserved - Signal failure xx11 = reserved - 1xxx = reserved 0xxx = reserved												
0x7E1 ABS DiscRequest							<u> </u>		Refe	r correspon	iding spec										
0x7E1		- 8 - 8				unctional Diagnosis R Diagnosis Re Diagnosis	quest from Tester to ABS ponse from ABS to Teste Request used in Plant	(All nodes er					Refe Refe Refe	r correspon r correspon r correspon r correspon r correspon	iding spec iding spec iding spec						
			ds need to be decided by OEM			Diagnosis	vesponse used in Plant					_	Refe	r correspon	ong spec					_	

Remarks:
1. xxx Frames indicate Frame ids need to be decided by CEM

