

Generic CAN Protocol - bf1systems 1SYSTEM IRTPTMS - ECU Firmware v2.23 - F1-XXX-1799-01X - FIA					
Protocol	CAN 2.0A	ID (Format)	CAN Standard / 11 bit identifiers	Note - For all Error, Warning & Timeout signals	
CAN Bus BitRate	1Mbit	DLC Byte Length	8 (Except 0x500 - DLC = 3)	0	False
Termination	None - Unit is connected as a node into an existing network	Byte Order	Motorola	1	True

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
FIA DATA	0x500	100ms	RX	-	FIA pAtmo	8	16	Unsigned	1	0	0	65535	mbar	Atmospheric Pressure sent by FIA to TPMS ECUs
					FIA NTechnicalBody	20	4	Unsigned	1	0	0	15	-	Race Series ID sent by FIA to TPMS ECUs
														0 None
														1 FIA
														2 IMSA
														3 DTM
														4 SRO
														5 Reserved
														6 Reserved
														7 Reserved
														8 Reserved
														9 Reserved
														10 Reserved
														11 Reserved
														12 Reserved
														13 Reserved
														14 Reserved
														15 Reserved

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
CAR DATA	0x50F	100ms	RX	-	VEHICLE SPEED	24	16	Unsigned	0.1	0	0	327.6	km/h	Vehicle Speed sent by CAR to TPMS ECUs
					VEHICLE ODOMETER	40	16	Unsigned	2	0	0	131070	km	Vehicle Odometer sent by CAR to TPMS ECUs
														Not currently used - future use only
					P REF SET	51	1	Unsigned	1	0	0	1	-	Reference Pressure Set sent by CAR to TPMS ECUs

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPM1S FL WS DATA	0x600	1000ms	TX	-	TPM1S XX WS ACCEL ERR	0	1	Unsigned	1	0	0	1	-	Wheel Sensor Accelerometer Error
TPM1S FR WS DATA	0x601				TPM1S XX WS BATTERY ERR	1	1	Unsigned	1	0	0	1	-	Wheel Sensor Battery Error
TPM1S RL WS DATA	0x602				TPM1S XX WS TEMP ERR	2	1	Unsigned	1	0	0	1	-	Wheel Sensor Temperature Measurement Error
TPM1S RR WS DATA	0x603				TPM1S XX WS PRESS ERR	3	1	Unsigned	1	0	0	1	-	Wheel Sensor Pressure Measurement Error
					TPM1S XX WS FAULT GROUP	4	3	Unsigned	1	0	0	7	-	Wheel Sensor Fault Code
														0 No Fault
														1 TPMS Subsystem
														2 IR Subsystem
														3 Core
														4 Firmware Fault
														5 Unknown Fault
														6 Abnormal Reset
														7 Reserved
					TPM1S XX WS TEMP	8	8	Unsigned	1	-40	-39	198	°C	Wheel Sensor Temperature
					TPM1S XX WS PRESS	24	16	Unsigned	0.625	0	0.625	20459.4	mbar	Wheel Sensor Gauge Pressure
					TPM1S XX WS P REF	40	8	Unsigned	25	0	25	5950	mbar	Wheel Sensor Reference Gauge Pressure
					TPM1S XX WS P COMP	48	8	Unsigned	25	0	25	5950	mbar	Wheel Sensor Compensated Gauge Pressure
					TPM1S XX WS MISMATCH	57	1	Unsigned	1	0	0	1	-	Wheel Sensor Security Code Mismatch Warning
					TPM1S XX WS HIGH TEMP WRN	59	1	Unsigned	1	0	0	1	-	Wheel Sensor High Temperature Warning
					TPM1S XX WS UNDER PRESS HARD WRN	60	1	Unsigned	1	0	0	1	-	Wheel Sensor Low Pressure Hard Warning
					TPM1S XX WS UNDER PRESS SOFT WRN	61	1	Unsigned	1	0	0	1	-	Wheel Sensor Low Pressure Soft Warning
					TPM1S XX WS GAS LOSS WRN	62	1	Unsigned	1	0	0	1	-	Wheel Sensor Rapid Gas Loss Warning
					TPM1S XX WS RUN FLAT WRN	63	1	Unsigned	1	0	0	1	-	Wheel Sensor Tyre Flat Warning

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CAN Bus BitRate	1Mbit	DLC Byte Length	8 (Except 0x500 - DLC = 3)	0	False
Termination	None - Unit is connected as a node into an existing network	Byte Order	Motorola	1	True

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment	
TPM1S FL WS INFO	0x604	1000ms	TX	-	TPM1S XX WS PROXY ECU	0	1	Unsigned	1	0	0	1	-	Wheel Sensor Proxy ECU Enabled	
TPM1S FR WS INFO	0x605				0	Proxy Inactive									
TPM1S RL WS INFO	0x606				1	Proxy Active									
TPM1S RR WS INFO	0x607				TPM1S XX WS SENSOR TYPE	2	3	Unsigned	1	0	0	7	-	Wheel Sensor Type	
														0	Unavailable
														1	TPMS
														2	IR
					TPM1S XX WS RX TIMEOUT	5	1	Unsigned	1	0	0	1	-	Wheel Sensor Receive Timeout	
					TPM1S XX WS NOT CONFIRMED	6	1	Unsigned	1	0	0	1	-	Wheel Sensor Position Not Confirmed	
														0	Wheel Sensor has been confirmed OK
														1	Wheel Sensor has not been confirmed
					TPM1S XX WS NOT DETECTED	7	1	Unsigned	1	0	0	1	-	Wheel Sensor Signal Not Detected	
														0	Wheel Sensor is being detected OK
														1	Wheel Sensor is not being detected
					TPM1S XX WS ID	24	16	Unsigned	1	0	0	65535	-	Wheel Sensor ID	
					TPM1S XX WS RX DETECT CNT	32	8	Unsigned	1	0	0	255	-	Wheel Sensor Receive Counter	
					TPM1S XX WS BATTERY LOW	40	1	Unsigned	1	0	0	1	-	Wheel Sensor Battery Voltage Low Warning	
					TPM1S XX WS RX RSSI	41	7	Unsigned	1	-127	-127	0	dBm	Wheel Sensor Received Signal RSSI	
					TPM1S XX WS FW MINOR	48	4	Unsigned	1	0	0	15	-	Wheel Sensor Firmware Minor Version	
					TPM1S XX WS FW MAJOR	52	4	Unsigned	1	0	0	15	-	Wheel Sensor Firmware Major Version	
					TPM1S XX WS RBL	56	7	Unsigned	1	0	0	100	%	Wheel Sensor Remaining Battery Life Estimate	
					TPM1S XX WS RBL LOW	63	1	Unsigned	1	0	0	1	-	Wheel Sensor Remaining Battery Life Low Warning	

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CAN Bus BitRate	1Mbit	DLC Byte Length	8 (Except 0x500 - DLC = 3)	0	False
Termination	None - Unit is connected as a node into an existing network	Byte Order	Motorola	1	True

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPM1S FL WS IR DATA	0x608	100ms	TX	Multiplexor	TPM1S XX WS IR GROUP ID	0	3	Unsigned	1	0	0	7	-	Wheel Sensor IR Data Multiplexor
TPM1S FR WS IR DATA	0x609				TPM1S XX WS IR CORE TEMP 2	8	8	Unsigned	1	-40	-39	198	°C	Wheel Sensor IR Core Ambient Temperature 2
TPM1S RL WS IR DATA	0x60A				TPM1S XX WS IR CORE TEMP 1	16	8	Unsigned	1	-40	-39	198	°C	Wheel Sensor IR Core Ambient Temperature 1
TPM1S RR WS IR DATA	0x60B				TPM1S XX WS IR TEMP 1	20	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 1
					TPM1S XX WS IR TEMP 2	24	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 2
					TPM1S XX WS IR TEMP 3	44	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 3
					TPM1S XX WS IR TEMP 4	48	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 4
					TPM1S XX WS IR TEMP 5	20	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 5
					TPM1S XX WS IR TEMP 6	24	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 6
					TPM1S XX WS IR TEMP 7	44	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 7
					TPM1S XX WS IR TEMP 8	48	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 8
					TPM1S XX WS IR TEMP 9	20	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 9
					TPM1S XX WS IR TEMP 10	24	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 10
					TPM1S XX WS IR TEMP 11	44	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 11
					TPM1S XX WS IR TEMP 12	48	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 12
					TPM1S XX WS IR TEMP 13	20	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 13
					TPM1S XX WS IR TEMP 14	24	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 14
					TPM1S XX WS IR TEMP 15	44	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 15
					TPM1S XX WS IR TEMP 16	48	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 16
					TPM1S XX WS IR TEMP 17	20	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 17
					TPM1S XX WS IR TEMP 18	24	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 18
					TPM1S XX WS IR TEMP 19	44	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 19
					TPM1S XX WS IR TEMP 20	48	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 20
					TPM1S XX WS IR TEMP 21	20	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 21
					TPM1S XX WS IR TEMP 22	24	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 22
					TPM1S XX WS IR TEMP 23	44	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 23
					TPM1S XX WS IR TEMP 24	48	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 24
					TPM1S XX WS IR TEMP 25	20	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 25
					TPM1S XX WS IR TEMP 26	24	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 26
					TPM1S XX WS IR TEMP 27	44	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 27
					TPM1S XX WS IR TEMP 28	48	12	Unsigned	0.1	-40	-39.9	367.9	°C	Wheel Sensor IR Pixel Temperature 28

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPM1S FL ECU INFO 2	0x626	1000ms	TX	-	TPM1S XX WS TYRE SET	8	8	Unsigned	1	0	0	127	-	Wheel Sensor Tyre Set
TPM1S FR ECU INFO 2	0x627				TPM1S XX WS TYRE TYPE	16	8	Unsigned	1	0	0	15	-	Wheel Sensor Tyre Type
TPM1S RL ECU INFO 2	0x628				TPM1S XX WS FAULT CODE	40	16	Unsigned	1	0	0	65535	-	Wheel Sensor Diagnostic Fault Code
TPM1S RR ECU INFO 2	0x629													

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPM1S CFGCNTRL	0x700	1000ms	RX	-	TPM1S CFGCNTRL	56	64	Unsigned	1	0	0	4.29E+09	-	Message reserved No requirement to log this signal

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPM1S XCP BCAST	0x7BF	1000ms	TX/RX	-	TPM1S XX XCP RES	56	64	Unsigned	1	0	0	4.29E+09	-	Message reserved for PC to ECU CAN Comms No requirement to log this signal

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CAN Bus BitRate	1Mbit	DLC Byte Length	8 (Except 0x500 - DLC = 3)	0	False
Termination	None - Unit is connected as a node into an existing network	Byte Order	Motorola	1	True

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPM1S FL ECU INFO	0x704	1000ms	TX	-	TPM1S XX ECU FW MAJOR	0	8	Unsigned	1	0	0	255	-	ECU Firmware Major Version
TPM1S FR ECU INFO	0x705				TPM1S XX ECU FW MINOR	8	8	Unsigned	1	0	0	255	-	ECU Firmware Minor Version
TPM1S RL ECU INFO	0x706				TPM1S XX ECU HEARTBEAT	16	8	Unsigned	1	0	0	255	-	ECU Heartbeat
TPM1S RR ECU INFO	0x707				TPM1S XX ECU AUTH SERIES ID	24	4	Unsigned	1	0	0	15	-	Race Series ID received from FIA by TPMS ECU
					TPM1S XX ECU HIGH TEMP	29	1	Unsigned	1	0	0	1	-	ECU High Temperature Warning
					TPM1S XX ECU HIGH VOLTAGE	30	1	Unsigned	1	0	0	1	-	ECU High Voltage Warning
					TPM1S XX ECU LOW VOLTAGE	31	1	Unsigned	1	0	0	1	-	ECU Low Voltage Warning
					TPM1S XX ATM PRESS RX TIMEOUT	38	1	Unsigned	1	0	0	1	-	ECU Vehicle Speed Signal Receive Timeout
					TPM1S XX VEH SPEED RX TIMEOUT	39	1	Unsigned	1	0	0	1	-	ECU Atmospheric Pressure Signal Receive Timeout
TPM1S XX ECU FW PATCH	56				24	Unsigned	1	0	0	16777215	-	ECU FW Patch Version		

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPM1S FL XCP CMD	0x708	1000ms	RX	-	TPM1S XX XCP CMD	56	64	Unsigned	1	0	0	4.29E+09	-	Messages reserved for PC to ECU CAN Comms
TPM1S FR XCP CMD	0x709					No requirement to log these signals								
TPM1S RL XCP CMD	0x70A													
TPM1S RR XCP CMD	0x70B													

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPM1S FL XCP RES	0x70C	1000ms	TX	-	TPM1S XX XCP RES	56	64	Unsigned	1	0	0	4.29E+09	-	Messages reserved for PC to ECU CAN Comms
TPM1S FR XCP RES	0x70D					No requirement to log these signals								
TPM1S RL XCP RES	0x70E													
TPM1S RR XCP RES	0x70F													

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPM1S FL CFGSTAT	0x710	1000ms	TX	-	TPM1S XX CFGSTAT	56	64	Unsigned	1	0	0	4.29E+09	-	Messages reserved
TPM1S FR CFGSTAT	0x711					No requirement to log these signals								
TPM1S RL CFGSTAT	0x712													
TPM1S RR CFGSTAT	0x713													

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment	
TPM1S FL DIAG	0x714	200ms	TX	Multiplexor	TPM1S XX DIAG MUX ID	0	8	Unsigned	1	0	0	255	-	Diagnostics Multiplexor	
TPM1S FR DIAG	0x715				0x0	TPM1S XX DIAG ADV POSN 1	14	2	Unsigned	1	0	0	3	-	Wheel Sensor Position in Buffer 1 (Posn Config Only)
TPM1S RL DIAG	0x716					TPM1S XX DIAG ADV ID 1	32	16	Unsigned	1	0	0	65535	-	Wheel Sensor ID in Buffer 1
						TPM1S XX DIAG ADV RSSI 1	40	8	Signed	1	0	-127	0	dBm	Wheel Sensor Signal RSSI in Buffer 1
TPM1S RR DIAG	0x717				0x1	TPM1S XX DIAG ADV POSN 2	14	2	Unsigned	1	0	0	3	-	Wheel Sensor Position in Buffer 2 (Posn Config Only)
						TPM1S XX DIAG ADV ID 2	32	16	Unsigned	1	0	0	65535	-	Wheel Sensor ID in Buffer 2
						TPM1S XX DIAG ADV RSSI 2	40	8	Signed	1	0	-127	0	dBm	Wheel Sensor Signal RSSI in Buffer 2
					0x2	TPM1S XX DIAG ADV POSN 3	14	2	Unsigned	1	0	0	3	-	Wheel Sensor Position in Buffer 3 (Posn Config Only)
						TPM1S XX DIAG ADV ID 3	32	16	Unsigned	1	0	0	65535	-	Wheel Sensor ID in Buffer 3
						TPM1S XX DIAG ADV RSSI 3	40	8	Signed	1	0	-127	0	dBm	Wheel Sensor Signal RSSI in Buffer 3
					0x3	TPM1S XX DIAG ADV POSN 4	14	2	Unsigned	1	0	0	3	-	Wheel Sensor Position in Buffer 4 (Posn Config Only)
						TPM1S XX DIAG ADV ID 4	32	16	Unsigned	1	0	0	65535	-	Wheel Sensor ID in Buffer 4
						TPM1S XX DIAG ADV RSSI 4	40	8	Signed	1	0	-127	0	dBm	Wheel Sensor Signal RSSI in Buffer 4
					0x8	TPM1S XX DIAG VEH SPEED	16	16	Unsigned	1	0	0	65535	km/h	Vehicle Speed received from CAR by TPMS ECU
						TPM1S XX DIAG VEH ATM P	32	16	Unsigned	1	0	0	65535	mbar	Atmospheric Pressure received from FIA by TPMS ECU
						TPM1S XX DIAG VEH ODOMETER	48	16	Unsigned	1	0	0	131070	km/h	Vehicle Odometer received from CAR by TPMS ECU
		TPM1S XX DIAG VEH MOVING	56	1		Unsigned	1	0	0	1	-	ECU in moving mode			
	0x9		TPM1S XX DIAG ECU HEALTH	32	32	Unsigned	1	0	0	4.29E+09	-	ECU Health Diagnostic Code			
			TPM1S XX DIAG CORE TEMP	40	8	Unsigned	1	-40	-39	198	°C	ECU Internal Temperature			

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Termination	None - Unit is connected as a node into an existing network	Byte Order	Motorola	1	True

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FIA AUTHSEED	0x281	-	RX	-	FIA AUTHSEED	56	64	Unsigned	1	0	0	4.29E+09	-	Message reserved for FIA No requirement to log this signal

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPMS FL AUTH MSG 1	0x501	1000ms	TX	-	TPMS pTyre XX	8	16	Unsigned	0.625	0	0.625	20459.4	mbar	Wheel Sensor Gauge Pressure
TPMS FR AUTH MSG 1	0x504				TPMS TTyre XX	16	8	Unsigned	1	-40	-39	198	°C	Wheel Sensor Temperature
TPMS RL AUTH MSG 1	0x507				TPMS TRxDetectCnt XX	24	8	Unsigned	1	0	0	255	-	Wheel Sensor Receive Counter
TPMS RR AUTH MSG 1	0x50A				TPMS NSerialID XX	40	16	Unsigned	1	0	0	65535	-	Wheel Sensor ID
					TPMS tBoot XX	56	16	Unsigned	1	0	0	65535	secs	ECU Time from Boot
Messages reserved for FIA No requirement to log these signals														

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPMS FL AUTH MSG 2	0x502	1000ms	TX	-	TPMS BTempErr XX	8	1	Unsigned	1	0	0	1	-	Wheel Sensor Temperature Measurement Error
TPMS FR AUTH MSG 2	0x505				TPMS BPressErr XX	9	1	Unsigned	1	0	0	1	-	Wheel Sensor Pressure Measurement Error
TPMS RL AUTH MSG 2	0x508				TPMS BBattErr XX	10	1	Unsigned	1	0	0	1	-	Wheel Sensor Battery Error
TPMS RR AUTH MSG 2	0x50B				TPMS BAccelErr XX	11	1	Unsigned	1	0	0	1	-	Wheel Sensor Accelerometer Error
					TPMS pAtmoDiag XX	12	12	Unsigned	1	0	0	4095	mbar	Atmospheric Pressure received from FIA by TPMS ECU
		TPMS RBL XX	16	7	Unsigned	1	0	0	100	%	Wheel Sensor Remaining Battery Life Estimate			
		TPMS BWSpdND XX	23	1	Unsigned	1	0	0	1	-	Wheel Sensor Signal Not Detected			
		TPMS RxRSSI XX	24	7	Unsigned	1	-127	-127	0	dBm	Wheel Sensor Received Signal RSSI			
		TPMS BWSpdNC XX	31	1	Unsigned	1	0	0	1	-	Wheel Sensor Signal Not Confirmed			
		TPMS ECUFirmMaj XX	32	8	Unsigned	1	0	0	255	-	ECU Firmware Major Version			
		TPMS ECUFirmMin XX	40	8	Unsigned	1	0	0	255	-	ECU Firmware Minor Version			
		TPMS ECUHeartB XX	48	8	Unsigned	1	0	0	255	-	ECU Heartbeat			
		TPMS ECUSupplID XX	56	8	Unsigned	1	0	0	255	-	ECU Supplier ID			
Messages reserved for FIA No requirement to log these signals														

Messages	ID	Rate	Direction	MUX	Signal Name	Startbit	Length	Type	Factor	Offset	Minimum	Maximum	Unit	Comment
TPMS FL AUTH MSG 3	0x503	1000ms	TX	-	TPMS AUTHHASH XX	56	64	Unsigned	1	0	0	4.29E+09	-	Messages reserved for FIA No requirement to log these signals
TPMS FR AUTH MSG 3	0x506													
TPMS RL AUTH MSG 3	0x509													
TPMS RR AUTH MSG 3	0x50C													