Action Sample Time Rela	lative time	ID (hex) [1]	DLC [2]	D0 B1 [3]	D1 B2 [4]	D2 B3 [5]	D3 B4 [6]	D4 B5 [7]	D5 B6 [8]	D7 D6 B8 B7 [10 [9]]	Comments		Protocol decode					
Radio off to on 0.006	0.000	680	1	A3									Channel parameters					
0.018 1.495	0.012 1.489	681 680	6	A1 A3	04	8A	FF	32	FF		ASCII: 2	040455 042255	number of packets until ACK TP2.0 timming parameters					
1.496	1.490	681	6	A1 20	04	8A	FF	32	FF		ASCII: 2 ASCII: pR Aud							
2.899 2.901	2.893 2.895	680 680	8	20	02	70	52	12	41	75 64 00 00	ASCII: pR Aud ASCII:lio		Radio (requester) wants to add menu to MFA+					
2.902	2.896	680	- 1	A3								0x12	in the middle segment	(110x91 pixels)				
2.925 2.946	2.919 2.940	680 681	7	12 A1	00	00 8A	00 FF	32	00 FF	00	ASCII:		with title 'Audio'					
2.974	2.968	681	- 1	B3														
3.01 3.01	3.004 3.004	681 680	5	10 B1	23	00	00	00			ASCII: #	0x23 0x00	reply with screen area ID, 0x00 in this example					
4.381	4.375	680	1	A3														
4.416 30.921	4.410 30.915	681 680	6	A1 A3	04	8A	FF	32	FF									
30.931	30.925	681	6	A1	04	8A	FF	32	FF									
32.014 32.025	32.008 32.019	680 681	1	A3 A1	04	8A	FF	32	FF									
Switching to the Aud 0.475	0.000	681	3	19	2A	00							reg to jump to menu channel/area ID 00					
0.476 0.496	0.001 0.021	680 681	1	BA														
0.496	0.021	680	5 1	1A BB	23	00	01	00					request to send data in area ID 00					
0.512	0.037	680	8	23	09	00	60	09	00	00 00		0x <u>09</u> 0x 0 0	draw into the screen area ID, 0x00 in this example			clear screen		
0.521 0.531	0.046 0.056	680 680	8	24 25	06	08	00	6D	00	00 <u>61</u> 00 00			graphic rectangle block follows after params dimension of rectangle: 110x91 (0x006E x 0x005B)	(110x91 pixels)		09 bytes until end o draw text	•	
0.543	0.068 0.074	680 681	8	06 B7	61	0F	10	00	37	00 1E		0x <u>6</u>	ASCII block follows after params		0x0F	15 bytes until end of draw text	f array	
0.549	0.074	681	8	27	00	31	30	33	2E	31 20	ASCII:'103.1		*103.1 MHz*					
0.564 0.575	0.089 0.100	680 680	8	28 29	4D	48	7A	61	0A	31 20 00 00 4D 02	ASCII:(MHza ASCII:)G FM	0x <u>6</u> : 0x46 4E	ASCII block follows after params		0x0/	10 bytes until end o draw text	f array	
0.585	0.110	680	3	1A	32	08	4/	JU	46	4D U2	ASCII:)G FM ASCII:2	0x46 4E 0x32	*2*		0x08	end of block arrays		
0.593	0.118	681 681	1	BB 1B							ASCII:	0						
0.606	0.131	680	1	BC	41	00	UT				AGUII.	UX <u>Z7</u> 00 0	screen area displayed successfully					
0.682 0.691	0.207 0.216	680 681	1 6	A3		8A		20	ee.									
1.766	1.291	680	1	A1 A3														
1.774	1.299	681	6	A1	04	8A	FF	32	FF									
Changing radio stati	tions on																	
the audio page 29.316	0.000	680	8	23	na	00	60	no	00	00 00	ASCII-# '	0v09.0v00	draw into the screen area ID. 0x00 in this example			clear screen		
29.327	0.011	680	8	24	00	00	6E	00	5B	00 61	ASCII:# ` ASCII:\$ n[a		graphic rectangle block follows after params		0x05	09 bytes until end o	f array	
29.338 29.35	0.022	680 680	8	25 06	61	08 0F	10	6D 00	37	00 00 00 1E		0x61	dimension of rectangle: 110x91 (0x006E x 0x005B) ASCII block follows after params	(110x91 pixels)	0x0F	draw text 15 bytes until end of	f arrav	
29.36	0.044	681	1	B7									*102.3 MHz*			draw text		
29.37 29.381	0.054 0.065	680 680	8	27 28	00 4D	31 48	30 7A	61	0A	00 00	ASCII: 102.3 ASCII: (MHza ASCII:) G FM	0x6	"102.3 MHz" ASCII block follows after params		0x0A	10 bytes until end o	f array	
29.392 29.402	0.076 0.086	680 680	8	29 1A	03 32	00	47	00	46	4D 02	ASCII:) G FM ASCII: 2	0x46 4E 0x32	"FM"			draw text end of block arrays		
29.402	0.086	681	1	BB	32	08					ASCII: 2	UX32	-2-		UXUE	end of block arrays		
29.424 29.436	0.108 0.120	680 681	1	A3 A1	04	8A	c.c	20	ee.									
29.448	0.132	681	4	1D		00	01	32	FF			0x27 00 01	screen area displayed successfully					
29.456 29.555	0.140	680 680	1 8	BE					00	00 00	ACCILL :					clear screen		
29.565	0.249	680	8	2B 2C	00	00	6E	00	5B	00 61	ASCII:+ ` ASCII:, n [a		dimension of rectangle: 110x91 (0x006E x 0x005B)	(110x91 pixels)		draw text		
29.576 29.587	0.260 0.271	680 680	8	2D 0E	61	08 0E	10	6D	37	00 00 00 1E	ASCII:- m ASCII:a 7							
29.598	0.282	681	1	BF														
29.608 29.62	0.292	680 680	8	2F 20	00 4D	31		61	2E	31 20	ASCII:/ 103.1 ASCII: MHza ASCII:! G FM				0x0A	10 bytes until end of draw text	f array	
29.63	0.314	680	8	21	03	00		00	46	4D 02	ASCII:! G FM							
29.642 29.652	0.326 0.336	680 681	3	12 B3	32	08					ASCII: 2 ASCII:				0x <u>08</u>	end of block arrays		
29.685 29.695	0.369	681	4	1E BF	27	00	01				ASCII: '	0x27 00 01	screen area displayed successfully					
29.825	0.509	680 680	1 8	23	09	00	60	09	00	00 00	ASCII:# `					clear screen		
29.836 29.847	0.520 0.531	680 680	8	24 25	00	00	6E	00	5B	00 61	ASCII:\$ n[a ASCII:% m					draw text		
29.047	0.531	000	۰	25				90			AGGII.76 III							

ASCII	Hex	ASCII	Hex	Comments									
A	0x41	a	0x61										
В	0x42	b	0x62										
С	0x43	c	0x63										
D	0x44	d	0x64										
E	0x45	e	0x65										
F	0x46	f	0x66										
G	0x47	9	0x67										
H	0x48	h	0x68										
- 1	0x49	i	0x69										
J	0x4A	i	0x6A										
K	0x4B	k	0x6B										
L	0x4C	1	0x6C										
M	0x4D	m	0x6D										
N	0x4E	n	0x6E										
0	0x4F	0	0x6F										
P	0x50	р	0x70										
Q	0x51	q	0x71										
R	0x52	r	0x72										
S	0x53	s	0x73										
T	0x54	t	0x74										
U	0x55	U	0x75										
V	0x56	v	0x76										
W	0x57	w	0x77										
X	0x58	×											
Y	0x59	У	0x79										
Z	0x5A	z	0x7A										
0	0x30												
1	0x31												
2	0x32												
3	0x33												
4	0x34												
5	0x35												
6	0x36												
7	0x37												
8	0x38												
9	0x39												
EOL	0x60 0x09			NOT, 60 09 repres	sents 09 bytes of graphi	data to be shown or	Instrument Cluster						
	0xA0												
- 17	0x2E												
×													

385	ID 191	DLC P	eriod 20 XY ZZ	Affects device TRUE	Comment Window Buttons		Door Windows		Driver Window	77	Rear Doors									
385	181	- 2	20 XY ZZ	- INUE	Window Bullons	1 1	Pass Windows Up Auto up Down Auto down	1 1	Driver Window Up Auto up Down Auto down	- 22	Rear Doors									
	- :	- 1	- 11	:		4	Auto up Down	4	Auto up Down											
			20 00 XX 00 00	TRUE		8	Auto down	8	Auto down											
649	289	4	20 00 XX 00 00	TRUE -	Cruise Control	XX 0	Buttons Off On	00000000												
						9	On Resume Set	00000001 00001001 00000101												
657	291		40 00 XX YY 00 00			5	Set													
657	291	5		TRUE -	Locks -	AA 55	Locks doors	YY 04	Unlocks trunk											
						55	Unlocks doors													
705		5 (6?)	100 XX 00 00 00 00	TRUE																
705	2C1	[11]	100 XX 00 00 00 00	- INUE	Turn Signal Control	XX 00010000 00100000 01000000 10000000	Left													
						0100000	Left Right HB forward HB back	40												
				-		10000000	HB back	80												
707		-	100 XX 00 00	FALSE -	Ignition	XX 00010000 00010001 00000111	Key out													
						00010001 00000111	Key back, power on Key on													
		i		-		00000011 00001011	Key back, power on Key on Between on and start Start													
764	2FC				Diagnostic cable ID's Steering															
768 784	2FC 300 310 312 328 339 33A 33D				Steering CCM Driver Door Pass Door															
786 808	312 328				Pass Door Conveniece															
825 826	339 33A				Conveniece Central Electronic Aux Heating HVAC															
829					HVAC															
						fsm library	(XX*(2*8)+(YY-1))/190	02 00	Reverse Forward											
859		8	100 00 AA XX YY ZZ BB DD CC	2	RPM, Oil temp, water Temp	XX	RPM	(YY*0.75)-64		ZZ		Pedals	BB							
			- 192				RPM (XX*(2*8)+AA)/4 12290.25		Water temp	22 22	Oil temp	Pedals Clutch out Clutch in	00001000							
			- 192									in both	BB 00001000 0000000 0001011 00000011							
											Windows									
897	381	6	100 XX YY ZZ AA BB CC	TRUE -	Driver Door	0000000X	Lock Door open/closed	00010000	Window Switch Window up Window auto up	22 00-C8	Windows Position Position	Window Status Open, not moving	AA BB	Trunkfluel Nothing	CC 1 10	Limits Top limit Bottom limit			8	Normal Pinch Detected
						0000000X 000000X0 00000100	Lock Door open/closed Door locked/unlocked Lock pressed	9Y 00010000 100000 01000000	Window auto up Window down			Window Status Open, not moving Moving up Moving down	0 1 10	Trunk/fuel 0 Nothing 1 Fuel door release 10 Trunk Unlock Mirror heater 0000 Active?	10	Bottom limit			A	Pinch Detected
						00001000	2	10000000	Window down Window auto down			Rear Window lock?	100 0100	Mirror heater 2000 Active?						
913	391		20 XX YY ZZ	TRUE	Key Fab	XX 0		YY 0		22										
							Nothing Window down				Nothing Open sunroof? Close sunroof?									
						AA 55	Window down Window up	80			Close									
917	-		50 XY	v door	And The C		www.up	4	Unioux doors		*U110017									
917	395	1		x does	Anti Theft -	X 2	?	Y 1	unlock lock											
						A 8	? flash lights	2	lock											
949	385		100 XX YY ZZ AA 00 CC	TRUE	Pass Door	××			Waster C. T.		Window	Wast Part	**	00						
949	385	-	AA TT ZZ AA 00 CC	- INUE	Pass Door	0000000X	Lock Door openiclosed Door locked/unlocked Lock pressed Unlock Pressed	00010000	Window Switch Window up Window auto up	2Z 00-C8	Window Position Position	Window Status Open, not moving Moving up Moving down	AA 0 1	CC Limits 1 Top limit 10 Bottom limit			8	Normal Pinch Detected		
						00000000 00000100 10	Lock pressed	100000 01000000	Window auto up Window down			Moving up Moving down	1 10 1000	-u Battom limit			A	rincii Detected		
	-		200 XX 00 00 00 00 00	FALCE								?	1000							
961	3C1			FALSE	Steering	XX	Steering Wheel torque													
963 849	3C3 351		100 XX 00 00 00 00 00 00 00 ? AABB XX YY 00 00 00 00	FALSE 7	Steering Vehicle Speed	XX XX YY	Steering Wheel Position Speed	AA	Direction											
992	3E0		7 02 00 10 00 00 00 80 00	2	?	only appeared once														
993	3E1	8	100 XX 00 YY ZZ 00 00 AA	2	Heater Controls?	XX		ZZ	AC?	22	temp?	Temp?	AA 100							
					0000010	20 2 8	7 Full hot selected					Temp? HI LOW	100 10000000							
						6	rear def pressed													
1136	470	5	50 YY XX 00 00 00	TRUE	Door Contacts	XX	Contacts	YY												
						00	Closed	20												
						00 01 02 04	Drivers open Pass open Rear Drivers open													
						04 08	Rear Drivers open Rear pass open													
						08 20 10	Rear pass open Tailgate open Hood open													
1319			200 00 00 00 00 XX YY ZZ 00	2							Rear									
1319	527	- 8	200 00 00 00 00 XX YY ZZ 00	7	Outside Temp	ec 79	Front Bumper? (XX2)-50	dec	Roof? (XX/2)-50	dec (Rear bumper? (XX/2)-50									
1329	531	- 1	50 XX YY 00 00	TRUE	example:	79	10.5													
1329	531	1.	50 XX YY 00 00	- INUE	Lights -	XX 0000000 0000100 00001000 0010000 0100000 1000000	Off High beams Fogs Reverse Left Right	9Y 00000000 00100001	Off		0		0 12							
						00000100	Fogs	000100001	Off Left Right 4 way Brakes											
						0100000	Left	01000000	4 way Brakes		8 20 40		1B 40 80							
							Right	00010010 00011011 01000000 10000000 00001000	?		40 50		8							
1361	551	1	100 XX	FALSE -	Power On .	00 01	Power off Power on													
						01	Power on													
1365	555	?	? AABB XX YY YY ZZ	FALSE	Engine load/boost	AAXX	Engine Load	YYYY	Boost	22	Oil temp?	Tun timer?	88							
1393	571	6	600 XX 00 00 00 00 00	FALSE	Battery	xx	Voltage ((XXV2)+50)/10													
					example:	XX dec 8f	((XXX/2)+50)/10 12.15	12.5												
1425	591	8	200 00 XX 00 00 00 00 00 00		Mirror/tailgate/hood?	XX														
						00000001 00000010	All locked All unlocked Doors unlocked, trunk unlocked													
						00000011	Doors unlocked, trunk unlocked													
1432	598	8	100 XX 00 00 00 00 00 00 00	FALSE		XX = status of DCC + button	DCC mode comfort	(DCC comfort + button												
					Golf 6 (gti) DCC suspension	41 (51) 42 (52)	DCC mode normal	(DCC normal + button												
								(DCC sport + button pressed)												
						43 (53)														
						43 (53)	DCC mode sport	pressed)												
1473	5C1	1	100 XX	TRUE	Steering Wheel Buttons			pressed)				None								
1473	5C1 -	1		TRUE .	Steering Wheel Buttons	XX 00		pressed)				None Next track Province track	00 02 03							
1473	5C1	1		TRUE	Steering Wheel Buttons	XX 00		pressed)				None Next track Previous track Vol up Vol dram	00 02 03 06 07							
1473	5C1	1	100 XX	TRUE	Steering Wheel Buttons	XX 00 06 07 0A 1A 22	None Vol up Vol down Manu Phone	pressed)				None Next track Previous track Vol up Vol down Back Phone	00 02 03 06 07 29							
1473	5C1	1		TRUE	Steering Wheel Buttons	XX 00 06 07 0A 1A 22	None Vol up Vol down Manu Phone	pressed)				None Next track Previous track Vol up Vol down Back Phone Up Days	00 02 03 06 07 29 1A 22							
					Stearing Wheel Buttons Wipers	XX 00 06 07 0A 1A 22 28 28 777 28 XX	None Vol up Vol down Metau Phones Up Down OK Muse					None Next track Previous track Vol up Vol down Back Phone Up Down	00 62 63 66 67 29 1A 22 23							
1473	5C1		200 XXYY	TRUE		XX 00 06 07 0A 1A 22 28 28 77 28 XX 00000000 00000001	None Vol up Vol down Metau Phones Up Down OK Muse	YY	Rear wiper off			None Next track Previous track Vel up Vol down Black Phone Up Down	00 62 63 66 67 29 1A 22 23							
			200 XXYY			XX 00 00 00 00 00 00 00 00 00 00 00 00 0	None Vol up Vol down Metau Phones Up Down OK Muse	YY	Paer wiper off Rear spray Rear wiper on			None Nest track Previous track Vel up Vol down Back Phone Up Down	00 02 03 06 07 22 1A 22 23							
			200 XXYY		Wipers	XX 00 00 00 00 00 00 00 00 00 00 00 00 0	None Vol up Vol don Vol donn Menu Pinose Up Down OK More Off Normal speed Sprey frost Meles	YY	Rear wiper off Rear spray Rear wiper on			None Next track Previous track Vel up Vol down Back Phone Up Down	00 02 03 06 07 29 1A 22 23							
1489	501	2	200 XX YY	TRUE		XX 00 00 00 00 00 00 00 00 00 00 00 00 0	None Vol up Vol down Metau Phones Up Down OK Muse	YY 60000000 60000010 60000101				None Next track Previous track Vel up Well Back Phone Up Down	00 02 03 06 06 07 02 14 14 22 22 23							
		2	200 XXYY 500 00YYXX0000		Wipers	XX 00 00 00 00 00 00 00 00 00 00 00 00 0	None Vol up Vol don Vol donn Menu Pinose Up Down OK More Off Normal speed Sprey frost Meles Mele	YY 60000000 60000010 60000101				None Nest track Previous track Volt up Down	00 00 00 00 07 29 14 14 22 22							
1489	5D1	2	200 XXYY 500 00 YYXX 50 00	TRUE	Wiçurs Interior Lights	XX 00 00 00 07 0A 4 12 22 28 28:77 20 00 00000000 00000001 00000010 00000010 000000	Mone Vol up Vol don Menu Menu Menu Menu Menu Menu Menu Men	YY 60000000 60000010 60000101 YY 64 64	Int. lights dim amount 0% dimming 100% dimmed			None Nest task Person Nest task Person Vot op Vot down Bacx Phone Down Down	00 00 00 00 00 00 29 14,4 22 23							
1489	501	2	200 XXYY 500 00 YY XX 00 00	TRUE	Wipers Interior Lights Memor Switch Position	XX 0 00 00 00 00 00 00 00 00 00 00 00 00	Mone Vol up Vol don Menu Menu Menu Menu Menu Menu Menu Men	90000000 90000010 90000101 90000101 944	Int. lights dim amount 0% dimming 100% dimmed Movement			None Need Stack Previous tack Vel up Vel down Phone Up Down	00 02 03 06 09 29 19 14 22 23							
1489	5D1	2	200 XXYY 500 00 YY XX 00 00	TRUE	Wipers Interior Lights Memor Switch Position	XX 00 00 00 07 0A 4 12 22 28 28:77 20 00 00000000 00000001 00000010 00000010 000000	None Visi up Vet down Visi up Vet down Visi up Vet down Visi up Visit up Vi	YY 60000000 60000010 60000101 YY 64 64	Int. lights dim amount 0% dimming 100% dimmed Movement			Notes Notes Treat Previous task Val up Previous task Val up Val down State Val down Description of the Val down	© 02 02 03 06 07 07 07 07 07 07 07 07 07 07 07 07 07							
1489	5D1	2	200 XXYY 500 00 YY XX 00 00	TRUE	Wipers Interior Lights Memor Switch Position	XX 0 00 00 00 00 00 00 00 00 00 00 00 00	None Visi up Vet down Visi up Vet down Visi up Vet down Visi up Visit up Vi	90000000 90000010 90000101 90000101 944	Int. lights dim amount 0% dimming 100% dimmed Movement			None Not tack Not tack Previous tack Vol up	00 00 00 00 00 00 00 00 10 10 10 10 10 1							
1489 1501 1537	5D1 5DD	2	200 XXYY 150 00 YYX 00 00	TRUE TRUE XX does	Wipers Menor's Lights Monor Switch Photon 60000000 60000000000000000000000000	XX 00 00 00 00 00 00 00 00 00 00 00 00 0	None Note of Many Vot open Many Many Price Down OK A Down Down OK A Down Down Down Down Down Down Down Down	YYY e0000000 e0000010 e000010 YYY 64 60 00 2 4 1 1	Int. lights dim amount 0% dimming 100% dimmed Movement Move up Move down Move left Move light			Notes Seek Personal Seek Seek Seek Seek Seek Seek Seek See	© 02 02 03 03 03 03 03 03 03 03 03 03 03 03 03							
1489	5D1 5DD	2	200 XX YY 150 00 YY XX 60 00 200 XY	TRUE	Wipers Interior Lights Memor Switch Position	XX 00 00 00 00 00 00 00 00 00 00 00 00 0	None Note of Many Vot open Many Many Price Down OK A Down Down OK A Down Down Down Down Down Down Down Down	YYY 00000000 00000010 00000101 YYY 64 60 00 Y	Int. lights dim amount 0% dimming 100% dimmed Movement Move up Move down Move left Move light			Note text Net text Persona text Vot sp Back Back Done Done Done Done Done	60 62 60 60 60 60 70 72 74 74 74 74 74 74							
1489 1501 1537	5D1 5DD	2	200 20 YY 900 20 YY 900 200 YY 900 YY	TRUE TRUE XX does	Wipers Menor's Lights Monor Switch Photon 60000000 60000000000000000000000000	XX 00 00 01 07 04 04 04 02 07 08 08 08 08 08 08 08 08 08 08 08 08 08	Notes	YYY e0000000 e0000010 e000010 YYY 64 60 00 2 4 1 1	Int. lights dim amount 0% dimming 100% dimmed Movement Move up Move down Move left Move light			Note tack Neet tack Previous tack Vid down Up down Up down Up Down	© 02 02 03 04 04 05 05 05 05 05 05 05 05 05 05 05 05 05							
1489 1501 1537	SD1	22	200 XX YY 200 XX YX 200 XX XX 200 XX 2	TRUE TRUE XX does FALSE	Ween . Window Lights Minor Smith, Prodon 0000000 0000000 0000000 Course list	XX	Neres No Go No G No G	00000000 000000000 000000000 000000000	int. lights dies emount of demonst of demonst of demonst of demonst of demonstration of dem	00000001 0000010 00000100 00001000		Pfob Down	12 22 23 23 23							
1489 1501 1537	SD1	22	200 XX YY 100 00 YY XX 00 00 200 XX Y 100 XX 00 00 YY 100 200 XX X	TRUE TRUE XX does	Wipers Menor's Lights Monor Switch Photon 60000000 60000000000000000000000000	XX XX XX XX XX XX XX XX	Norma	9 YY 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	int. lights dim- amount 0% dimmind 100% dimmed Movement Move up Move down Move light Nove light	00000001 00000010 00000100 00001000		Notes find the second s	14 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2							
1489 1501 1537	SD1	22	200 XX YY 200 XX YX 200 XX XX 200 XX 2	TRUE TRUE XX does FALSE	Ween . Window Lights Minor Smith, Prodon 0000000 0000000 0000000 Course list	XX	Neres No Go No G No G	9 YY 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	int. lights dim- amount 0% dimmind 100% dimmed Movement Move up Move down Move light Nove light	00000001 00000010 00000100 00001000		Pfob Down	12 22 23 23 23							
1489 1501 1537 1599	501 500 601 621	5 5 5	200 XXYY 100 00 YY XX 00 00 200 XY 100 XX 00 20 YY 60 200 XX 20 20 YY 60	TRUE TRUE XX does FALSE FALSE	Ween was a common to the common to the common to the common commo	XX 0.00	Notice No	9 YY 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Int. lights dim amount of the format of the following 100% dimmed Movement More top More down Move left Move left Move left Nove light Padden seatbelt Car gicture	00000001 00000010 00000100 00001000		Pfob Down	14 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2							
1489 1501 1537 1599	501 500 601 621	5 5 5	200 XX YY 200 XX YY 200 XX 90 00 200 XX Y 200 XX 90 00 9Y 9 90 200 AX XX YY ZZ	TRUE TRUE XX does FALSE	Ween . Window Lights Minor Smith, Prodon 0000000 0000000 0000000 Course list	XX 0.00	Notice No	9 YY 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Int. lights dim amount of amount of dimmed of	00000001 00000010 00000100 00001000	Settings menu	Pfob Down	14 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2							
1489 1501 1537 1599	501 500 500 601 601 602 602 602 603 603 603 603 603 603 603 603 603 603	22	200 XX YY 200 XX YY 200 XX YX 200 XX Y 200 XX Y 200 XX XX YX 200 200 XX XX XX YX ZZ 200 XX XX XX XX XX XX XX XX	TRUE XX does FALSE FALSE TRUE	Ween Merc Baltin Proton Concession of Concession Conces	XX 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Normal No	9 YY 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Int. lights dim amount of amount of dimmed of	00000001 00000010 00000100 00001000	Settings menu	Production Covers	150 a 23 a 23 a 23 a 23 a 24 a 25							
1489 1501 1537 1569	501 500 500 601 601 602 602 602 603 603 603 603 603 603 603 603 603 603	22	200 XXYY 100 00 YY XX 00 00 200 XY 100 XX 00 20 YY 60 200 XX 20 20 YY 60	TRUE XX does FALSE FALSE TRUE	Ween was a common to the common to the common to the common commo	XX 0.00	Notice No	777 00000000 00000000 00000000 00000000	Int. lights den amount of	00000001 00000010 00000100 00001000 00001000	Settings menu	Pfob Down	150 a 23 a 23 a 23 a 23 a 24 a 25							
1489 1501 1537 1569	501 500 500 601 601 602 602 602 603 603 603 603 603 603 603 603 603 603	2 2	200 XX YY 50 00 YY XX 50 00 200 XY 50 00 XY Y XX 50 00 200 XX XY ZZ 200 XX 00 00 200 XX YY ZZ 200 XX 00 00	TRUE XX does FALSE FALSE TRUE	Ween Merc Baltin Proton Concession of Concession Conces	XX 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Notice Vot up Vot up Vot up Vot doorn Vot up Vot doorn Proces Coc Coc Coc Make Off Normal good Market Mark	777 00000000 00000000 00000000 00000000	Int. lights den amount of	00000001 00000010 00000100 00001000 00001000		Production Covers	150 a 23 a 23 a 23 a 23 a 24 a 25							
1489 1501 1537 1569	501 500 500 601 601 602 602 602 603 603 603 603 603 603 603 603 603 603	2 2	200 XXYY 150 00 YY XX 60 00 200 XY 500 XX 00 00 YY 60 200 XX YY 22 200 XX 00 00 200 XX YY 22 200 XX 00 00	TRUE XX does FALSE FALSE TRUE	Ween Merc Baltin Proton Concession of Concession Conces	XX 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Notice Vol 40 Vo	777 00000000 00000000 00000000 00000000	Int. lights den amount of	00000001 00000010 00000100 00001000 00001000	Settings menu	Production Covers	150 a 23 a 23 a 23 a 23 a 24 a 25							
1489 1501 1537 1569	501 500 500 601 601 602 602 602 603 603 603 603 603 603 603 603 603 603	2 2	200 XXYY 150 00 YY XX 60 00 200 XY 500 XX 00 00 YY 60 200 XX YY 22 200 XX 00 00 200 XX YY 22 200 XX 00 00	TRUE XX does FALSE FALSE TRUE	Ween Merc Baltin Proton Concession of Concession Conces	XX 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Notice Vol 40 Vo	777 00000000 00000000 00000000 00000000	Int. lights dim amount of amount of dimmed of	00000001 00000010 00000100 00001000 00001000	Settings menu	Production Covers	150 a 23 a 23 a 23 a 23 a 24 a 25							
1489 1501 1537 1569	501 500 500 601 601 602 602 602 603 603 603 603 603 603 603 603 603 603	2 2	200 XXYY 150 00 YY XX 60 00 200 XY 500 XX 00 00 YY 60 200 XX YY 22 200 XX 00 00 200 XX YY 22 200 XX 00 00	TRUE XX does FALSE FALSE TRUE	Ween Merc Baltin Proton Concession of Concession Conces	XX 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Notice Vot up Vot doon Vot doon Vot doon Vot doon Vot doon Vot doon Phone Cox	99 99 99 99 99 99 99 99 99 99 99 99 99	Int. lights den amount of	00000001 00000010 00000100 00001000 00001000	Settings menu	Production Covers	150 a 23 a 23 a 23 a 23 a 24 a 25							
1501 1507 1569 1569 1569	501	2 2	200 XX YY 500 00 YY XX 50 00 200 XY 500 XX 00 00 YY 00 200 XX XYY ZZ 200 XX 00 00 200 XX YY ZZ 00 PH MM 58	TRUE XX does FALSE FALSE TRUE	Ween Mento Lights Mento Santo Protein 600160000 600160000 600160000 600160000 6001600000 6001600000000	XX 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Notice Vol 40 Vo	99 99 99 99 99 99 99 99 99 99 99 99 99	int light den amount of dermina of the control of t	900000001 00000010 00000100 00001000 90 70	Counts up 60-10 (0-29) proce every 2 seconds	Production Covers	150 a 23 a 23 a 23 a 23 a 24 a 25							
1501 1507 1569 1569 1569	501 500 500 601 601 602 602 602 603 603 603 603 603 603 603 603 603 603	2 2	200 XX YY 200 XX YY 200 XX YY 200 XX YY 200 XX XY Y ZZ 200 XX XY Y ZZ X 00 HH MM SS 200 XX XY Y ZZ X 00 HH MM SS	TRUE XX does FALSE FALSE TRUE	Weens Weed Switch Position Occorded Control of Contro	XX	Neste	2 2 1 1 70 20 40 MM	int light den amount of dermina of the control of t	900000001 00000010 00000100 00001000 90 70	Counts up 60-10 (0-29) proce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
1489 1501 1537 1599 1589 1589	501	55	200 XX YY 500 00 YY XX 50 00 200 XY 500 XX 00 00 YY 50 200 XX XYY ZZ 200 XX 00 00 200 XX YY ZZ 00 PH MM 58 200 XX 00 00 7 E T 70 66 142 60 AB 80	TRUE XX does FALSE FALSE TRUE	Ween Mento Lights Mento Santo Protein 600160000 600160000 600160000 600160000 6001600000 6001600000000	XX	Neme Neme Neme Neme Neme Neme Neme Neme	177 (178) (178	int light den amount of dermina of the control of t	000000001 00000010 00000100 00001000 70 85 6	Counts up 60-10 (0-29) proce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
1489 1501 1537 1599 1589 1589	501	55	200 XX YY 500 00 YY XX 50 00 200 XY 500 XX 00 00 YY 50 200 XX XYY ZZ 200 XX 00 00 200 XX YY ZZ 00 PH MM 58 200 XX 00 00 7 E T 70 66 142 60 AB 80	TRUE FALSE FALSE TRUE TRUE TRUE	Ween . Where Lights Meror Switch Protein 60000000 60000000 60000000 60000000	XX 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Norma Vot up Vot up Vot up Vot down Vot up Vot down Proces Cox	177 (178) (178	Int. Rights dem amount amount Conference Conference Movement Move down Move down Move down Move right Normal Fattlers seather For pintere 64ma = 1000 Fint Conference Size working on the Conference Fint Conf	000000001 00000010 00000100 00001000 70 85 6	Settings menu Counts up 00-10 (6-29) nnce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
1489 1501 1537 1599 1589 1589	501		200 XXYY 200 XXYY 200 XX 00 00 YY XX 00 00 200 XX 0 200 XX 00 00 YY 00 200 XX 00 00 YY 00 200 XX 00 00 YY 2Z 200 XX 00 00 200 XX 00 XX YY ZZ 00 HH MM 50 200 XX YZ 2Z 200 XX 00 00 200 00 XX 00 XX YY ZZ 00 HH MM 50 200 XX YZ 2Z 200 XX 00 00 200 00 XX 00	TRUE TRUE FALSE FALSE TRUE TRUE TRUE	Ween where fugits and control of the	XX XX XX XX XX XX XX XX	Norma Vot up Vot up Vot up Vot down Vot up Vot down Proces Cox	7 70 70 70 70 70 70 70 70 70 70 70 70 70	Int. lights dem on amount of the control of the con	000000001 00000010 00000100 00001000 70 85 6	Settings menu Counts up 00-10 (6-29) nnce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
1490 1591 1592 1599 1599 1599 1599 1599 1599	500 SDD SDD SDD SDD SDD SDD SDD SDD SDD S		200 XX YY 500 00 YY XX 50 00 200 XY 500 XX 00 00 0Y 90 200 XX YY 2Z 200 XX 00 00 7 E 17 68 14 68 148 80 100 00 AAF 90 20 XX YY 2Z 00 PH MM 50 20 XX 00 00 7 E 17 68 14 68 148 80 20 XX 00 00	TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE	Wigers West Lights Meror Switch Position 60000000 60000000 60000000 60000000	XX 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Notice Vot up Vot do Vot up Vot down Vot down Vot down Vot down Phone Cox	77 Y Y Y Y 151 MMM	let. lights den amount of amount of amount of the control of the c	00000001 00000010 00000100 0000100 90 70 88 6	Settings menu Counts up 00-10 (6-29) nnce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
1490 1591 1592 1599 1599 1599 1599 1599 1599	500 SDD SDD SDD SDD SDD SDD SDD SDD SDD S		200 XXYY 200 XXYY 200 XX 00 00 YY XX 00 00 200 XX 0 200 XX 00 00 YY 00 200 XX 00 00 YY 00 200 XX 00 00 YY 2Z 200 XX 00 00 200 XX 00 XX YY ZZ 00 HH MM 50 200 XX YZ 2Z 200 XX 00 00 200 00 XX 00 XX YY ZZ 00 HH MM 50 200 XX YZ 2Z 200 XX 00 00 200 00 XX 00	TRUE TRUE FALSE FALSE TRUE TRUE TRUE	Ween where fugits and control of the	XX	Need Need Need Need Need Need Need Need	770 COCC0000000 COCC00000000 COCC00000000 COCC00000000	let. Sights dem Office of the second of the	00000001 00000010 00000100 0000100 90 70 88 6	Settings menu Counts up 00-10 (6-29) nnce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
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1490 1591 1592 1599 1599 1599 1599 1599 1599	500 SDD SDD SDD SDD SDD SDD SDD SDD SDD S		200 XXYY 150 00 YY XX 60 00 200 XY 500 XX 00 00 YY 60 200 XX YY 2Z 200 XX 00 00 200 XX YY 2Z 200 XX 00 00 200 XX YY 2Z 200 XX 00 00	TRUE FALSE FALSE TRUE TRUE TRUE	Ween Ween Service Lights Minor Switch Protection Minor Switch Protection GO100000 GO10000 GO10000 GO10000 GO10000 GO1000 GO10	XX	Need Need Need Need Need Need Need Need	770 COCC0000000 COCC00000000 COCC00000000 COCC00000000	let. lights den amount of amount of amount of the control of the c	00000001 00000010 00000100 0000100 90 70 88 6	Settings menu Counts up 00-10 (6-29) nnce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
1490 1591 1592 1599 1599 1599 1599 1599 1599	500 SDD SDD SDD SDD SDD SDD SDD SDD SDD S		200 XXYY 150 00 YY XX 60 00 200 XY 500 XX 00 00 YY 60 200 XX YY 2Z 200 XX 00 00 200 XX YY 2Z 200 XX 00 00 200 XX YY 2Z 200 XX 00 00	TRUE FALSE FALSE TRUE TRUE TRUE	Ween Ween Service Lights Minor Switch Protection Minor Switch Protection GO100000 GO10000 GO10000 GO10000 GO10000 GO1000 GO10	XX	Need Need Need Need Need Need Need Need	770 COCC0000000 COCC00000000 COCC00000000 COCC00000000	let. lights den amount of amount of amount of the control of the c	00000001 00000010 00000100 0000100 90 70 88 6	Settings menu Counts up 00-10 (6-29) nnce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
1490 1591 1592 1599 1599 1599 1599 1599 1599	500 SDD SDD SDD SDD SDD SDD SDD SDD SDD S		200 XXYY 150 00 YY XX 60 00 200 XY 500 XX 00 00 YY 60 200 XX YY 2Z 200 XX 00 00 200 XX YY 2Z 200 XX 00 00 200 XX YY 2Z 200 XX 00 00	TRUE FALSE FALSE TRUE TRUE TRUE	Ween Ween Service Lights Minor Switch Protection Minor Switch Protection GO100000 GO10000 GO10000 GO10000 GO10000 GO1000 GO10	XX	Need Need Need Need Need Need Need Need	770 COCC0000000 COCC00000000 COCC00000000 COCC00000000	let. lights den amount of amount of amount of the control of the c	00000001 00000010 00000100 0000100 90 70 88 6	Settings menu Counts up 00-10 (6-29) nnce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
1490 1591 1592 1599 1599 1599 1599 1599 1599	500 SDD SDD SDD SDD SDD SDD SDD SDD SDD S		200 XXVV 200 00 00 00 XX 00 00 00 XX 00 00 00 XX 00 00	TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE	Ween Ween Service Lights Minor Switch Protection Minor Switch Protection GO100000 GO10000 GO10000 GO10000 GO10000 GO1000 GO10	XX	Need Need Need Need Need Need Need Need	770 YOU	Int. Spine dei Oil. derening 100% derening 1	00000001 00000010 00000100 0000100 90 70 88 6	Settings menu Counts up 00-10 (6-29) nnce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							
1489 1501 1537 1599 1589 1589	501		200 XXYY 150 00 YY XX 60 00 200 XY 500 XX 00 00 YY 60 200 XX YY 2Z 200 XX 00 00 200 XX YY 2Z 200 XX 00 00 200 XX YY 2Z 200 XX 00 00	TRUE TRUE FALSE FALSE TRUE TRUE TRUE TRUE	Wijers Winders Lights More Smith Predicts G0000000 G0000000 G0000000 G0000000	XX	Normal Vist up	770 YOU	Int. Spine dei Oil. derening 100% derening 1	00000001 00000010 00000100 0000100 90 70 88 6	Settings menu Counts up 00-10 (6-29) nnce every 2 seconds	Production Covers	142 23 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24							

						60 = neutral 50 = drive														
						C0 = sport														
						E0 = manual														
						A0 = manual up B0 = manual down														
859	358	8	100 00 AA XX YY ZZ BB DD CC	2	RPM, oil temp, water temp	AA XX	RPM	YY		22		Pedals	88	cc	Counts up	DD	Fuel Leve	d		
	381		100 XX YY ZZ AA BB CC	TRUE	Driver door	xx	Lock		Window switch			Window status	AA	88	Trunkfuel	cc	Limits			F Wind
899	383	3	100 XX YY 22 AA BB CC 100 00 00 00	THUE	Driver door	XX	Lock	YY	Window switch	22	position	Window status	AA	BB	Irunkhuel	CC	Limb			Wind
		3	20 XX YY 77	TRUE	Key fob	XX		YY												
917	395	-1	50 XY	X does	Anti theft	×		Y												
949	3B5	6	100 XX YY ZZ AA 00 CC	TRUE	Pass door	xx	Lock	YY	Window switch	22	Window position	Window status	AA	cc	Limits				F Window status	
949 961	3C1		200 XX 00 00 00 00 00	FALSE	Steering	XX	Steering wheel torque				poster									
963	3C3	8	100 XX 00 00 00 00 00 00 00	FALSE	Steering	XX	Steering wheel position													
992 993	3E0 3E1	8	? 02 00 10 00 00 00 80 00 100 XX 00 YY ZZ 00 00 AA	?	Peater controls?	XX	Only appeared once	22	AC?	22	temp?	Temp?	AA							
993	3E1 3E3	8	900 ?	2	interior temp?	XX		22	AU7	22	temp?	lemp?	AA							
1024	400	6	400 XX YY ZZ 00 00 00		Ring bus BCM	XX	Next ID	YY	Status	22	Request									
1025	401	6	400 XX YY ZZ 00 00 00		Convenience controller	ID-400		000X0000	Sleep Mode	2	Rebuild									
	402 403	6	400 XX YY ZZ 00 00 00 400 XX YY ZZ 00 00 00		Left front door Right front door	of the next		0000000X		80 X0000000	Login									
						nex			11 a Active	A0000000										
1028	404	6	400 XX YY ZZ 00 00 00		Left rear door	device		00010001	Sleep Mode	100000000	80 = learn									
1029	405	6	400 XX YY ZZ 00 00 00		Right rear door	in the		00000001	01 = Active, Normal Mode											
									02 = Inactive.											
	408	6	400 XX YY ZZ 00 00 00		Cluster	ring.		00000010	Initialization											
1034 1035	40A 40B	6	400 XX YY ZZ 00 00 00		Steering Module Gateway															
1036	40C	6	400 XX YY ZZ 00 00 00		HVAC															
	40D																			
1038	40E	6	400 XX YY ZZ 00 00 00		PTC Heater															
1081	42A 430				Radio?															
1111	457	3	100 01 00 00	?	2															
1136	470	5	50 YY XX 00 00 00	TRUE	Door contacts	XX	Contacts	YY												
	470	5	50 YY XX 00 00 00	FALSE	Door Contacts Rear Driver door Status	XX	Contact	YY												
1209	489 48D				Rear Driver door Status Rear Passenger door Status															
		X Z	x x	?	Contains menu structures															
1233	4D1	Z	2 Z	?	Contains menu structures															
1235	4D3 501				Mirror movement															
					Mirror movement						Rear									
1319	527	8	200 00 00 00 00 XX YY ZZ 00	2	Outside temp	XX	Front bumper?	YY	Roof?	22	tumper? Level									
			50 XX YY 00 00	TRUE	17-84	XX		YY		00.00	Level sensors?									
1329	531	4	50 XX YY 00 00 50 XX YY 00 00	True?	Lights	XX		YY		00 00	ARTSO/S7									
1349 1381	545 551				Reverse, PDC, ???															
1361	551	1	100 XX	FALSE	Power on	XX	Forter land		0	-	-74	David C	-							
1365 1393	555 571	?	? AABB XX YY YY ZZ 600 XX 00 00 00 00 00	FALSE FALSE	Engine load/boost Battery	AAXX	Engine load	YYYY	Boost	22	oil temp?	Run timer?	88							
				PALDE		XX XX	Voltage key pos.													
1425	591	8	200 00 XX 00 00 00 00 00 00		Mirror/tailgate/hood?	XX	, pos.													
	5C1		100 XX	TRUE	Steering wheel buttons	XX			Golf MK6	- 1	4	12 buttons	XX 00 00 60							
	5D1 5D1	2	200 XX YY	TRUE	Wipers	XX [14] 00000000	off .	90000000												
				-	Wipers		off		Int lights dim											
1501	5DD	5	100 00 YY XX 00 00	XX does	Interior lights	XX		YY	amount											
	5E3 5EF	3	200 XX YY ZZ	FALSE	Temperatures AC? AUX/PTC) heater	XX		YY	Current draw	22	Output	OK	28							
1537	601	1	200 XX 11 ZZ 200 XY	FALSE	Mirror switch position	- V	Position	- II	Movement	22	Oupu									
1537	601	-				00	Off													
1550 1569	60E 621	2	1100 88 01		2															
1569 1583	621 62F	5	100 XX 00 00 YY 00 200 AAXX YY ZZ	FALSE FALSE	Cluster info MFD Display status	XX XX	Compass	YY	Fuel light? Middle	22		MFD Buttons	AA							
1589	635	3	200 XX 00 00	TRUE	Brightness knob	XX	Dash brightness	- "	MIDSR	22		MPD Bullotts	Aux							
1617	651		200 00 00 00	?	?															
									In this given case											
									it's a UK car with											
									english language and Miles displayed in											
							Byte 2 (Example 0x02)	Byte 3 (distance unit)	displayed in cluster and Nav											
1619	653	3	540 84 02 84	?	Language / Area	Byte 1 (Example 0x84)	Language.	Kilometers or Miles	unit.											
1621	655 65D	8	540 F5 00 E0 0F 5C 00 10 40	?	Central Gateway	HH	Hours	MM	Minutes	0-	Seconds		XX YY ZZ							
1629	65F	8	1000 00 XX YY ZZ 00 HH MM SS 200 X	FALSE	Time, odometer VIN	nri	nous	MM	Minutes	88	owconds	Odometer	AA YY ZZ							
1633	661		1000 0X 00 00 00 00 00 00 00	FALSE	Radio power	X														
1721 624 zerd	6B9	7	? ED 98 4E 2E 6A 64 1F		Radio?															
024 Zero		1	7 ED 90 40 20 0A 04 IF			00100000	Right	20												
									Window auto											
						00001000	? Rear drivers open	10000000	down			?	100							
						04	Rear pass open													
							Unlocks doors and flashes the													
							4 waya													
						1000 0000	,	Low?												
						24	94													
					reverse example:	24	94													
						0010 0000	Mirror heater?													
										ID	DLC	Mute	DATA							
						10110	ebrakefow fuel					Mute MFD Previous screen	2B 09							
												MFD Next screen	0A							
						0x80+ignition on	0x02 = english	Is a 1:1 Copy of Byte 1												
						0x01=Europe	0x01 = german	is a 1:1 Copy of Byte 1												
						0x01=Europe 0x04 = UK	0x02 = english 0x01 = german 0x03 = french	is a 1:1 Copy of Byte 1												
						0x01=Europe	0x01 = german	is a 1:1 Copy of Byte 1												

	1 0 7 White was 10 10 White was 10 10 White was 10 10 White was 10 Whi	DLC Period Data	Comment											
R	1.50 9													
	State Stat	8 7 00	20 00 00 9 966	Shicle speed	XX YY	Speed	AA Directio	ın						
No	1				(200* (2	218)+								
State Stat	Company Comp				(12-1)	/ 4 0 0	00 Forwar	d						
Part	Control Cont		sina hon	10.	forms ID VV	Phobus	**	Townsh						
	Mile		ID-4:	420 of the										
	Mile No. 1		00 Cluster the:	t device in ring		1 Normal		2 Rebuild						
1	March Marc	34 6 400 XX YY ZZ 00 1	00 NVAC			11 Sleep	8	0 Login						
A	State Stat	5 6 400 XX YY ZZ 00	00 "Media IN"											
A	ACCOUNTY					Ring								
No.	March Marc	9 6 400 XX YY ZZ 00	30 radio			2 rebuild								
Common for Com	Causai for Cau	5A 6 400 XX YY EE 00	00 Telephone											
Common for Com	Causai for Cau													
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Common for Com	Causai for Cau		Even	en if a Nav										
Cameric Cameric for Section	Commission Com		Syste	etem is										
Company Comp	Commission Com		Radi	lio										
State	Commission Com	from 1	Communication Radio uses	s id 680										
11	Canada for Commission			. 681										
Common form	Commonication States from Commonication But Classes (Commonication But Classes) Commonication Commonication Commonication Classes (Commonication Classes) Commonication Classes (Commonication Class	from 1	Communication Cluster to Radio											
Committee in Com	Committation to Colored to the Color													
State Stat	Communication Communicatio	varies	Channel for Communication											
Classed life	Chancel for Committee to Street State Committee State													
Color Colo	Clarate 16		Channel for											
Classed for	Comment of the Comm	from 1	Communication Cluster to											
State Stat	Respective Columnic	3 to 8												
State Stat	Selephono/Niloscotch		Channel for											
Stock Stoc	Commission Cluster. 100 On YT 5A ST 22 FF Compase info to NTM X 100 On YT 5A ST 22 FF COMPASE INFO 100 ON YT 5A ST 22	from 1	Telephone/bluetooth											
Street S	Commences the Company of Company	4 to 8	to Cluster.											
State	## Add	varias												
1	NA A1		Telephone/bluetooth											
	### AA WELL COMPANDER AND MATERIAL PROPERTY OF COMP	3 50 0												
9 6 500 Ct. Yf. BA FF 32 FF Compass info to MFD X Figure 1 1 First Trans Free 3 First Trans 1 First Free 3 First Free 3 First Gard 1 First Gard	\$50 02 TF DA FF 32 FF Company info to DFD X	18 N/A A3	NFD to Compass from	w control										
0 Single Are 1 Trans Prace	Stagle S													
	Company Comp	9 6 500 0x YY 8A FF			Length	of								
3 2 Consecutive 4 Consec	Conservative Cons		0 5is	ingle First Frame	data									
3 Fise Control 1 Fise Control 2 Fise	Fire Central Fire		2 Cor	Consecutive										
ACT Section Control	Section Sect		Fram 3 Fl	low Control										
ACT Section Control	Section Control Cont													
ACT Section Control	Section Control Cont													
ACC SC C C C C C C C C	Section Sect													
ACT Section Control	Section Sect													Audio info on MFD
ACTI ANTI Char ACTI Char A	ACCT 1. ACCT CAR ACCT 1. ACCT CAR ACCT				nn	cc	DD	EE	FF			7 20	AABB CC DD EE	une 17 (Shirocco 09 /golf6)
8 200 At Na CC 000 EFF 95 C Line 2777 At Na	AND AND THE COLOR OF FF 60 A 1 AND THE COLOR OF F 60 A			A.	scii har 1 ASCII	har ASCII Ch	ASCII AE Char 4	ASCII Char S						
8 250 M 25 C C C C C C C C C C C C C C C C C C	250 At 25 CC 25 EE FF 60			(1	Line 1) 2. (Li	e 1) 3. (Line	1) (Line 1)	(Line 1)	1)					
														_
			Audio info on MFD		A BB	cc	DD	EE	FF GG					
		8 200 AA ES CC ED :	Audio info on MFD EE FF GG Line 2777	A)										
		8 200 AA BB CC DD 1	Audio info on MFD EE FF GG Line 2227	A										
		8 200 AA BB CC DD V	Audio info on MFD EX FF GG Line 2777	A										
		8 200 AA EB CC DD	Audio info on MTD	A										
		8 200 AA NB CC DD	Audio info on MFD	A										
		8 200 AA BB CC DD	Audio infe en MFD	A										
		8 200 AA BB CC CC	Audio info on MTD	A										
		8 200 AA ER CC DD	Audit info on NTD	A P										
	2002 0 Display Init 2	8 200 AA RR CC CO.	Audit info on MTD	, and the second										

Tested on vehicle	ID	DLC	Period	Structure	Commen
Audi A3 8P	0x520	8	200mS	00 00 00 00 00 XX YY ZZ	Odometer, (XX + YY*(2^8) + ZZ*(2^16)) [km]
Audi A3 8P	0x280	8	10mS	00 00 XX YY 00 00 00 00	RPM ((XX + YY*(2^8)) /4) [1/min]
				СВ	
			24	203	4
			24	203	227

Temp = (byte 6) / 20-40 (Decimal)		Hour Minute 3 e4		
		3 84		
			*(C4(2*4)) * 1000 + (C4 & 0x8F) * 100 + (C5(2*4)) * 10 + (C5 & 0x6F); timeral * (hours> 4) * 1000 + (hours & 0x6F) * 100 + (ninutes> 4) * 10 + (ninutes & 0x6F)	
SC1	1	1 Change input 2 Scar forward		
SC1	1	2 Scar forward		
SC1	1	3 Scar backward		
SC1	- 1	6 Vollap 7 Volldown OA Menu 1A Phone		
6C1 6C1	- 1	7 Voldown		
9C1 9C1	1	GA Manu		
SC1		22 Arrow up		
601	1	23 Arrow down		
901 901 901 901	1	28 OK		
SC1	1	29 OK 29 Mute 0 Button		
SC1	1	0 Button		
			oo manger	
			06 mininger 10 for 50 f	
			70.7	
			80.8	
			90'9	
			40.45	
			A0 10 B0 11	
http://cs.wikipedia.org/wiki/Volkswagen_Transport_Protocol				
902	ESP?		https://wiki.openstreetrag.org/wiki/VW-CAN	
902 140	ARGY			
	20			
460 Sal?	ESP1 ABS1 20 Fuel level?			
46Cm				
MALE .				
	Sime? 6+7: 6 bit 8 is on and off in			
	6+7:			
	e oc a sc on and on in			
	Lower 6 bits are always up			
	seconds Lower 6 bits are always up 7 goes from 60 to 10 (0.29)			
http://www.volkepage.nettechnik/aspirage/SSP_238.pdf				1.4600 marco 2.4600 marco 2.4600 marco 4.4600 marco 4.4600 marco 6.4600 marco 6.460

[1] ID:

Is the address on the CANBUS of the device sending the data (represented in hex)

[2] DLC:

The 4-bit data length code (DLC) contains the number of bytes of data being transmitted (D0-Dx)

[3] Dx/Bx

Contains the data/byte being sent

[4] Dx/Bx

Contains the data/byte being sent

[5] Dx/Bx

Contains the data/byte being sent

[6] Dx/Bx

Contains the data/byte being sent

[7] Dx/Bx

Contains the data/byte being sent

[8] Dx/Bx

Contains the data/byte being sent

[9] Dx/Bx

Contains the data/byte being sent

[10] Dx/Bx

Contains the data/byte being sent

[11] not sure if 5 or 6 byte, Golf 6 seems to have 6 bytes, and I think Golf 5 has 5. Will check later

[12] 00010000=Up 00100000=Auto up 01000000=Down 10000000=Auto down

[13] 00000001=Up 00000010=Auto up 00000100=Down 00001000=Auto down

[14] 0 Off

1 Normal

5 Medium

9 Fast