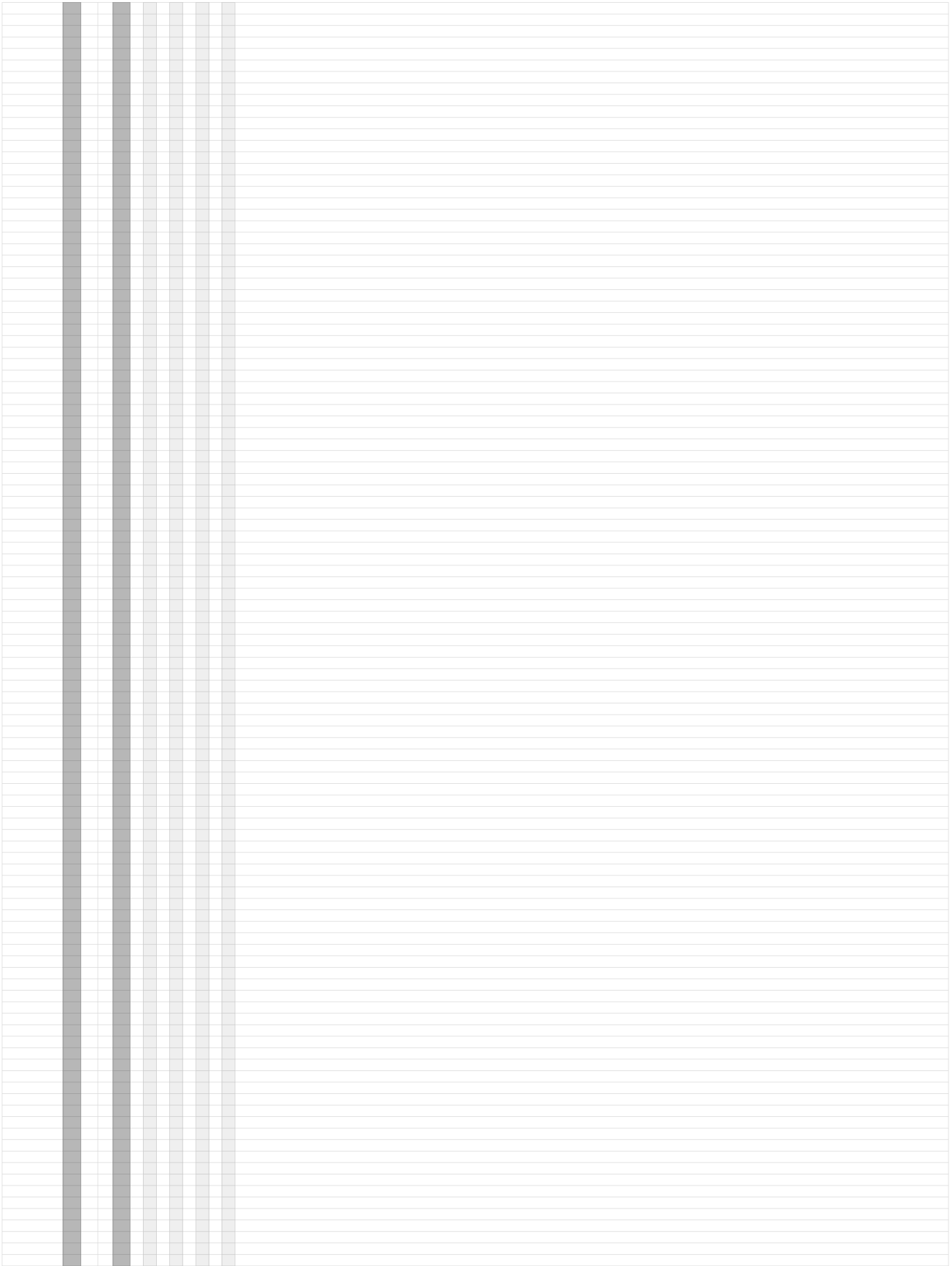
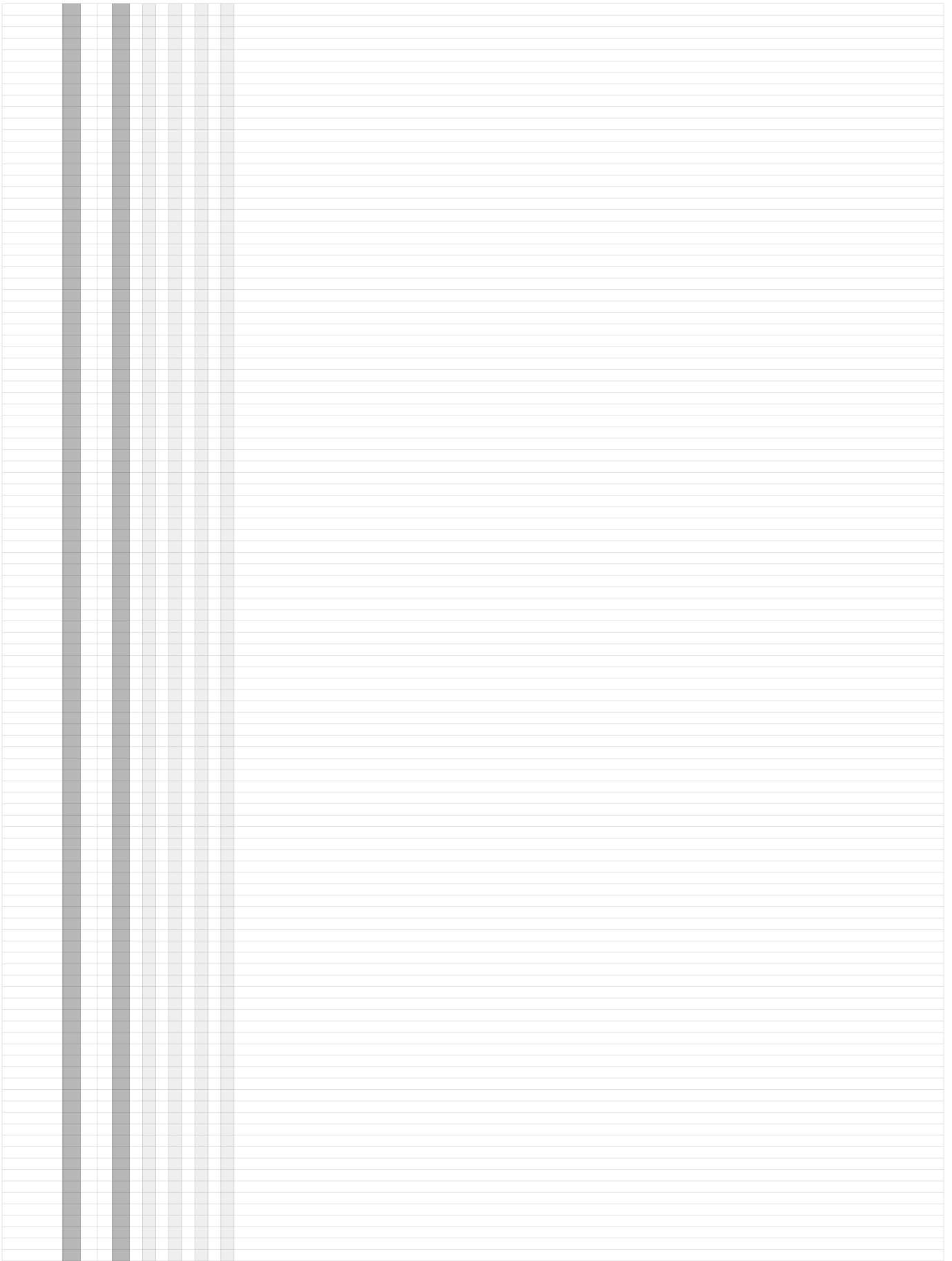
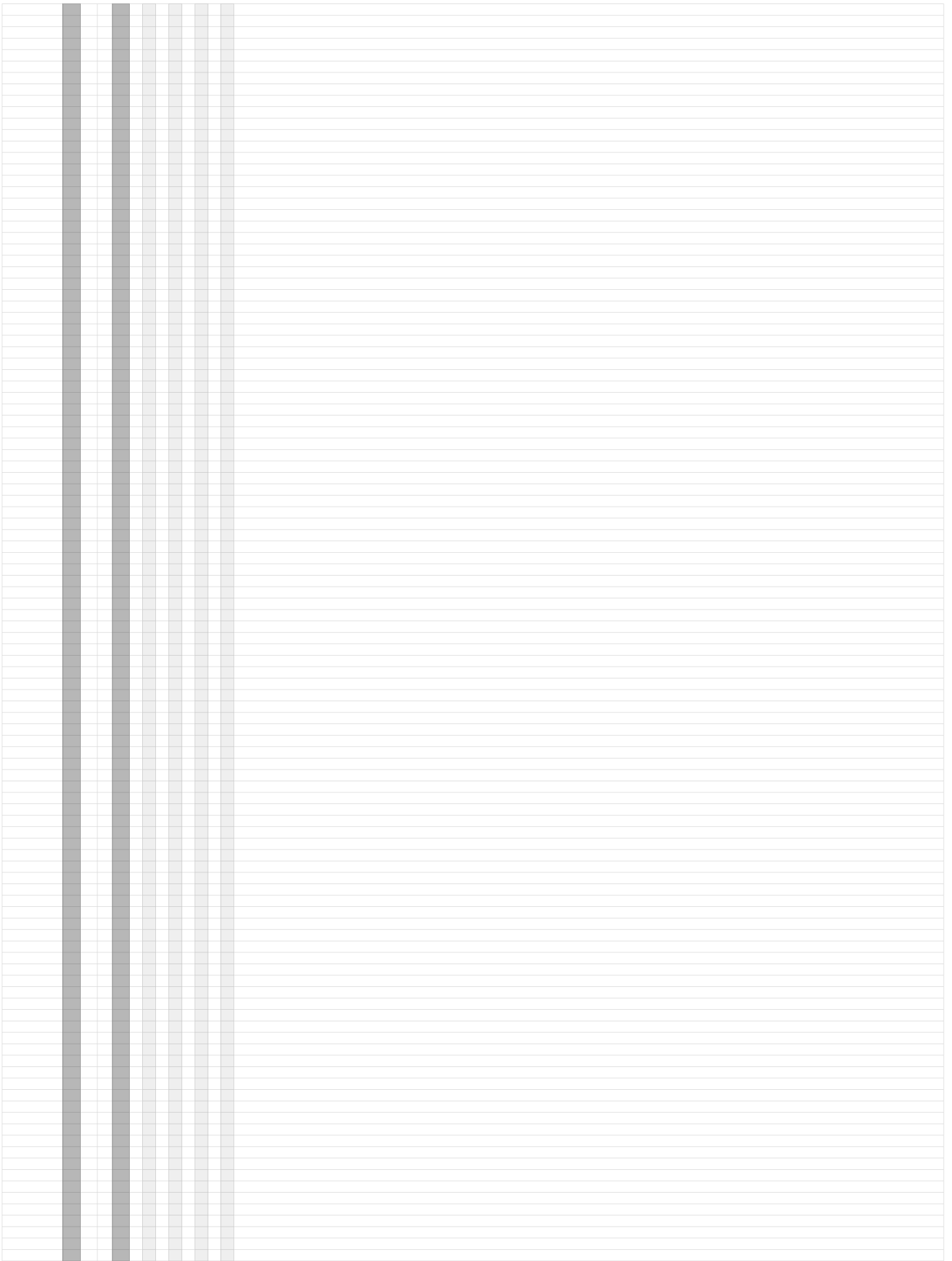


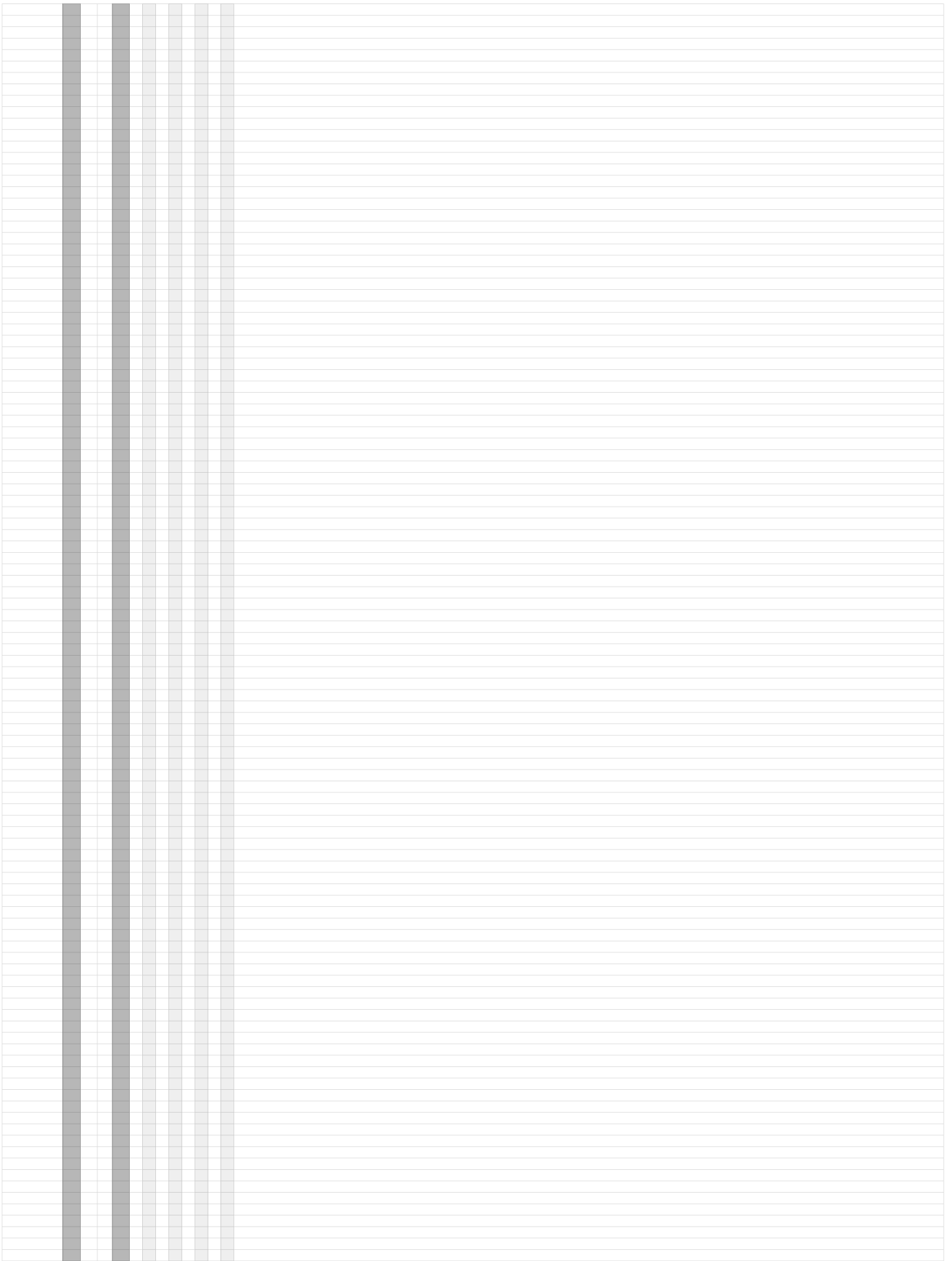
Function	ID (hex)	RTR (hex)	IDE (hex)	DLC (hex)	D0	D1	D2	D3	D4	D5	D6	D7	Notes
HS													
Unknown	4EC	0	0	8	0	0	0	0	0	0	0	0	0 Always at zero
Unknown	192	0	0	8	0	0	0	0	0	0	0	0	0 Always at zero
Unknown	215	0	0	8	0	0	0	0	0	0	0	0	0 Always at zero
Unknown	240	0	0	8	5	0	0	0	0	0	0	0	0 D0 changes between 04-07 all other at zero
Unknown	228	0	0	8	0	0	0	0	0	0	0	0	0 Always at zero
Unknown	190	0	0	8	0	0	0	0	0	0	0	0	0 Always at zero
Unknown	205	0	0	8	0	0	0	0	0	0	0	0	0 Always at zero
Unknown	340	0	0	8	0	0	0	0	0	0	0	0	0 Always at zero
Unknown	4F1	0	0	8	41	1	9A	FF	FF	64	5D	5D	
MS													
Engine RPMs	201	0	0	8	0	0							D0 and D1 together in hex
Accelerator Position	201	0	0	8							0		Between 0 and 200 (C8 in hex)
Range left	400	0	0	8						0	0		In km

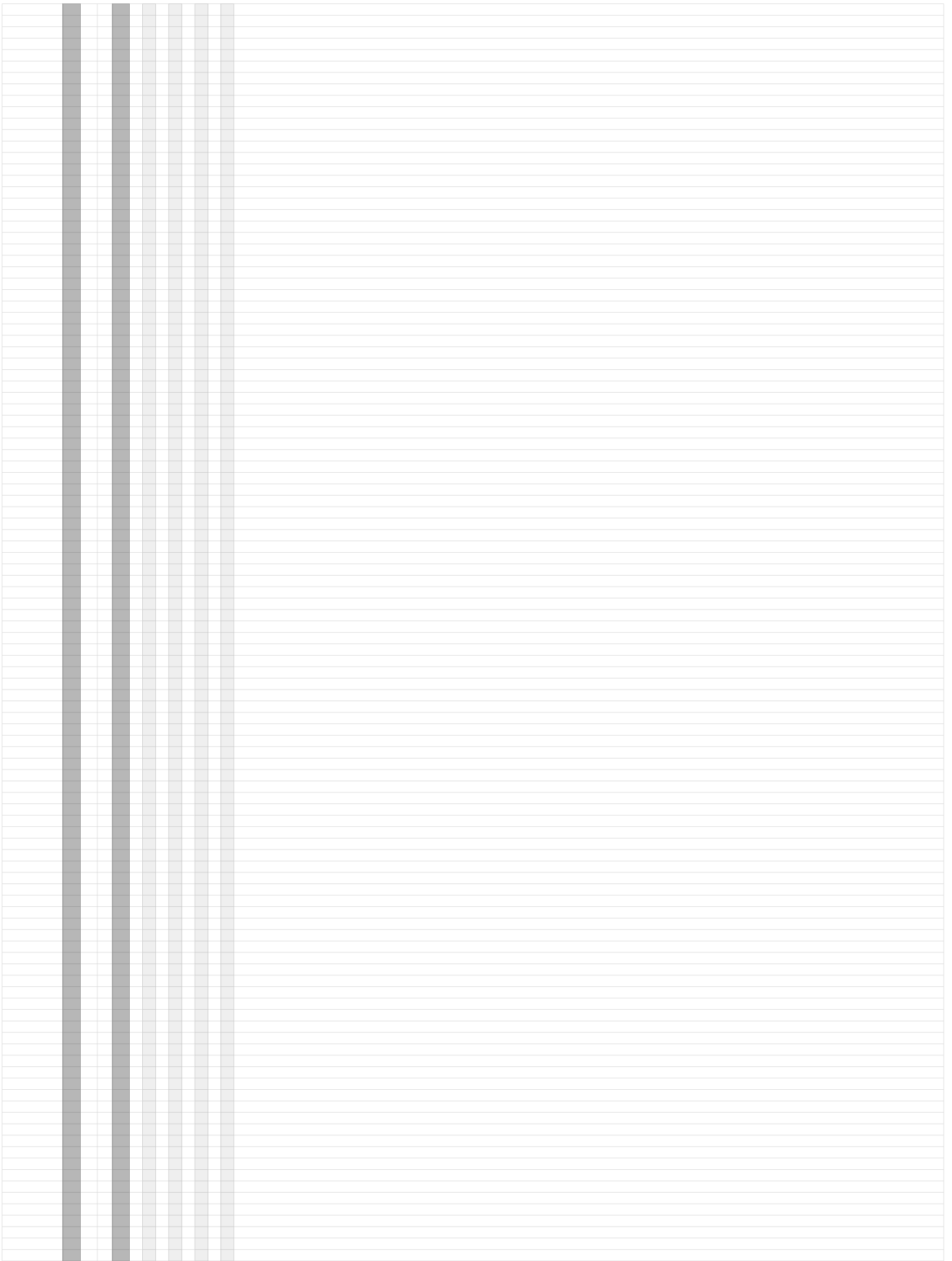
Equipment	ID	RTR	IDE	DLC	D0	D1	D2	D3	D4	D5	D6	D7	Comment
Wheel speed	300	00	00	8	40	00	40	00	40	00	40	00	Stand still D0,D2,D4,D6="40"+ D1,D3,D5,D7="00"; moving = hex value corresponds to speed; If "00" to "FF" is exceeded first value increases by one value and second value starts all over, Example "00" "FF" > "01" "00"
Gearbox	3E0	00	00	8	00	03	01	00	00	01	2B	79	(Gear selector buttons) D3=> Normal="00", Sport="40", Winter="20";
ABS	318	00	00	8	00	80	10	01	00	00	A0	00	D0=80 accelerating/decelerating, jumps between 80 and 00 with cruise and pushing ESP button; D2+D3=80+00 ESP on; C0+10 ESP off; D4+D5=Overall speed
RPM?	2E0	00	00	8	00	00	00	1C	3B	02	B3	00	D1+D2= Vehicle speed; D5+D6= RPM value
	5C0	00	00	8	00	83	00	00	00	00	00	00	
Steering wheel	180	00	00	5	7B	00	00	07	92				D0+D1= Steering wheel angle, D2=Steering angle effort(?)= deg/sec(?)
ECM	280	00	00	8	00	01	00	00	00	80	00	10	Pedals D2=> brake applied="04", kickdown applied="10", Normal "00"
ECM	1A0	00	00	8	00	02	EE	67	00	00	67	67	D5= accelerator pedal 0-100% "0"-64" NB! hex not decimal, 1 Value=1%; D3=D7=RPM(?) (D1+D2=RPM?)
ABS	120	00	00	8	0C	FA	00	FA	FD	00	00	00	unknown 4 different info, interval 0,1sec, no sequence [10]
ECM	1C0	00	00	8	00	00	01	00	00	00	00	00	RPM?
	110	00	00	8	5C	E9	00	D0	00	00	00	5E	Single line procasted every 0,02sec, constant loop. [11]

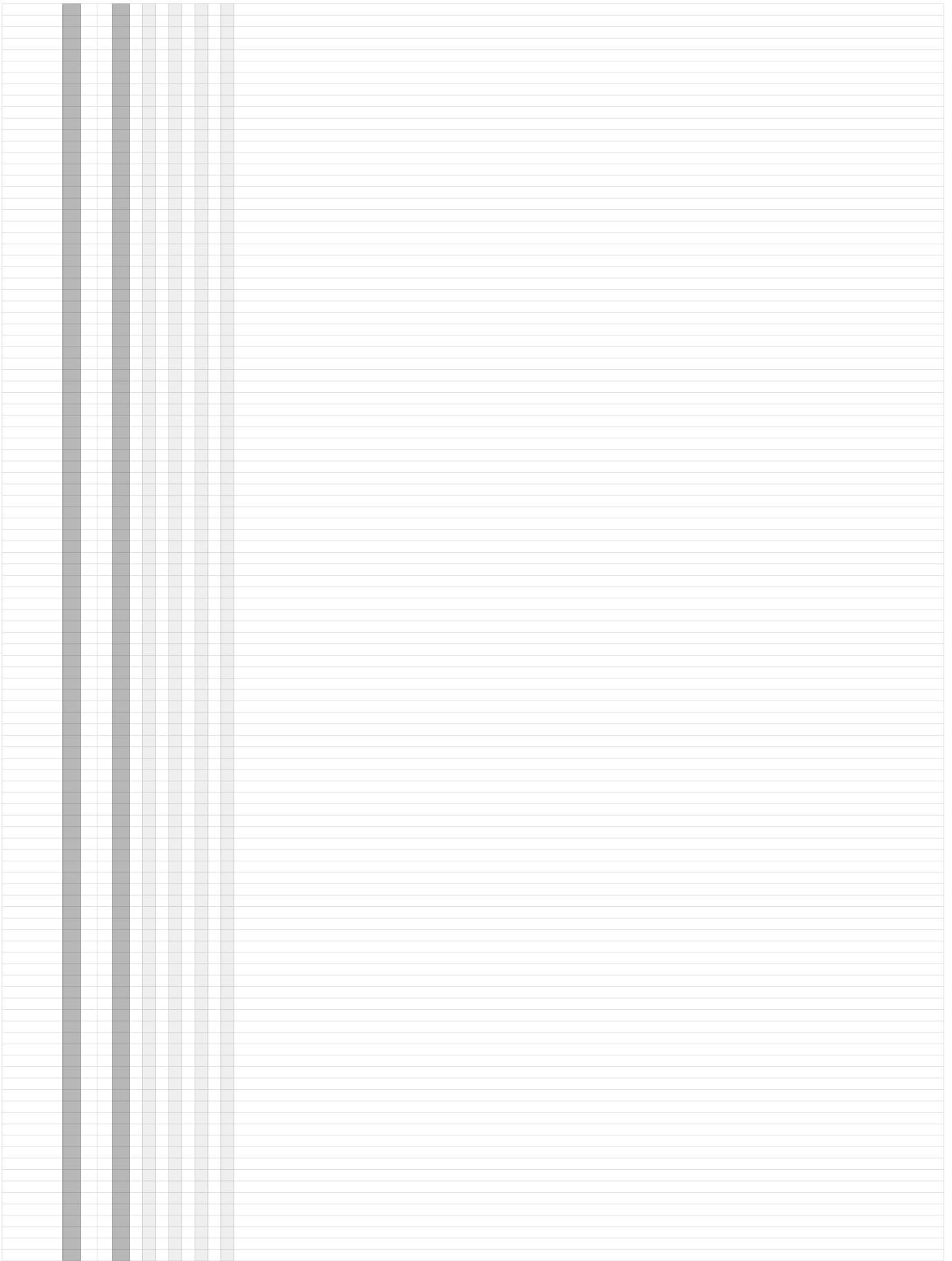


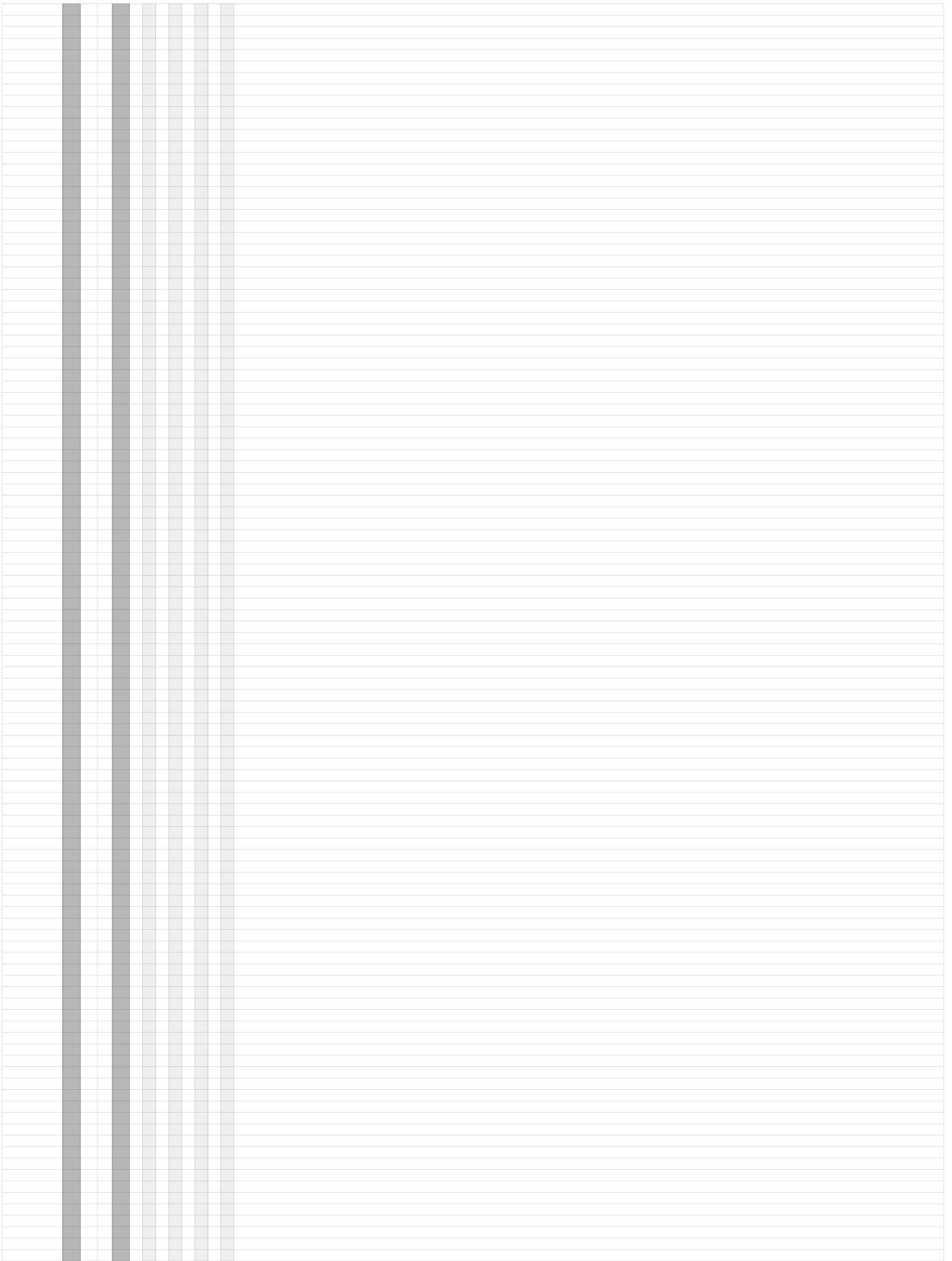


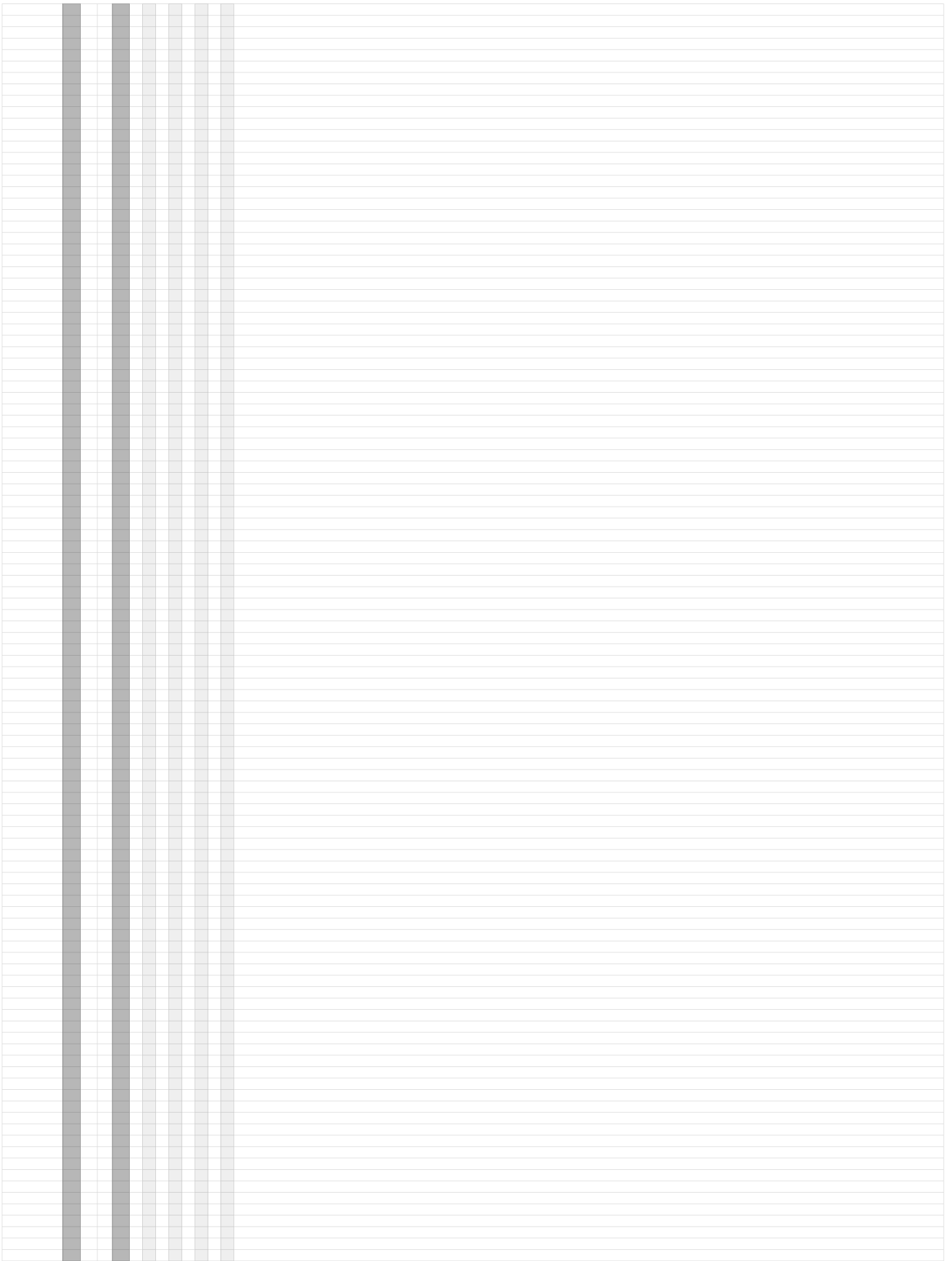












PT CAN	ISOhex	Source	hex	cc	dc	da	db	dc	dd	de	df	Comment	Comment 2	module	description
S2L (light stalk)	1EE	00	00	20	FF							Headlights on (for flashing) (stalk pulled forward)		AAG	Trailer Hitch Module
S2L (light stalk)	1EE	00	00	10	FF							Headlights permanently on/off (stalk pushed back)		ACC	Active Cruise Control
S2L (light stalk)	1EE	00	00	02	FF							Right direction indicator hard press		ACSM	Advanced Crash and Safety Management
S2L (light stalk)	1EE	00	00	01	FF							Right direction indicator light press		AHM	Trailer module
S2L (light stalk)	1EE	00	00	08	FF							Left direction indicator hard press		AMP	Amplifier
S2L (light stalk)	1EE	00	00	04	FF							Left direction indicator light press		AMPHI	HFR Amplifier
S2L (light stalk)	1EE	00	00	02	04	FF						0 position		AMP_TORPH	Top HiFi Amplifier/System
S2L (light stalk)	1EE	00	00	02	00	FF						"Check" button pressed		AMP	Amplifier/System
S2L (light stalk)	1EE	00	00	20	40	FF						"B/C" button pressed		AMP_TORPH	Top HiFi Amplifier/System
S2L (light stalk)	1EE	00	00	20	40	FF						"B/C" button pressed		ASA	Active steering
S2L (light stalk)	1EE	00	00	20	40	FF						"B/C" button pressed		ASD	Active Sound
S2L (Wiper stalk)	246	00	00	20	00	FA						Wiper interval speed D1-F4/F4C/FD		A7M	Advanced Telecommunications Module
S2L (Wiper stalk)	246	00	00	20	00	FA						Wiper interval speed D1-F4/F4C/F4C 200%y		BDC	Body Domain Controller (ZGW, FEM, REM, SZL, IHKA, TCR, CAS, JBBF Combined)
S2L (Wiper stalk)	246	00	00	20	00	FA						DO-Pullwisher spray) 10, Down 08, Sensor activation 01, light up 02, step up 03		CAS	Car Access System
S2L (Steering wheel)	106	00	00	02	00	00						No button pressed=00 05, "+", "-", "C", "phone-C1		CID	Central Information Display
S2L (Steering wheel)	106	00	00	02	00	00						voice=01, Home=C4, diamond=02, start=10, up=EO, down=EO(probably)		CMB_ECALL	Combox Emergency Caller
S2L (Steering wheel)	109	00	00	03	FF	FD						No button pressed=FF, D2 loops FD-EE		CMB_MEDIA	Combox Media
S2L (Steering wheel)	109	00	00	03	FF	FD						Buttons M drive, Diamond pressed=BF FF, D2 loops FD-EE		CVM	Soft top module (Convertible Top)
S2L (Steering wheel)	109	00	00	03	FF	FD						Stand by Interval 1000ms. Button pushed or released= Interval 1000ms 3x		DIGMESH	MPSI Instrument cluster (BWS)
S2L (Steering wheel)	109	00	00	03	FF	FD						Stand by Interval 1000ms. Any SZL stalk or steering button pressed=hold, except acc, Interval 1000ms		DOE	Digital Diesel Electronics
S2L (Cruise control stalk)	194	00	00	04	76	81	FC					no button pressed, D0 loop 6F to 7C, D1 loop 6F to FE		DME	Digital Motor Electronics
S2L (Cruise control stalk)	194	00	00	04	76	81	FC					hand push, D0 loop 70 to 7E		DSC (ABS)	Dynamic Stability Control
S2L (Cruise control stalk)	194	00	00	04	74	81	FC					light push, D0 loop 6F to 7D		DWA	Immobilizer (Alarm)
S2L (Cruise control stalk)	194	00	00	04	77	81	FC					hand push, D0 loop 76 to 84		DVDC	DVD Changer
S2L (Cruise control stalk)	194	00	00	04	77	81	FC					light push, D0 loop 73 to 80		EGS (TCM)	Electronic Transmission Control Unit
S2L (Cruise control stalk)	194	00	00	04	85	90	FC					cancel pressed, D0 loop 76 to 8C		EHA	Electronic ride height control
S2L (Cruise control stalk)	194	00	00	04	86	90	FC					Cruise activation pressed, D0 loop AE to 8C		EHC	Electronic ride height control
Kombi (Speed, Handbrake status)	184	00	00	08	00	40	F2	14	32	18		D0=FE Handbrake on, Fc= Handbrake off		EKP(M)	Electronic fuel pump control
Kombi (Speed, Handbrake status)	184	00	00	08	00	40	F2	14	30	FC		D3 loop F0-FE, Handbrake off D7 loop 03-FE, Handbrake on D7 loop 02-FE, Handbrake status change starts D7 loop from base value.		EMF	Electromechanical parking brake
KOMBI	330	00	00	08	AS	07	06	13	00	26	00	All values hex to dec. Observation=D2 D1 D0, average fuel, Tank content value for both sides, Range D7 D6 value/15=xxx km		EPS	Electronic power steering
CAS (Coding powermanagement)	395	00	00	05	08	06	50	64	FF			Sent only once at startup		FEM_BODY	Front electronics module (ZGW, FM, CAS, and JBBF Combined)
CAS (Vehicle type)	388	00	00	07	04	01	66	16	C2	01	1E	Sent only once at startup		FEM_GW	Front electronics module gateway
CAS (VIN Number)	380	00	00	07	42	36	30	37	31	33		Sent only once at startup (VIN last 7 digits ASCII)		FKA	Rear cabin automatic A/C
CAS (Ignition status) (KL 15)	130	00	00	05	02	34	3F	11				D4 value +11 every sending until 99, then starts at AA-BA-CB-CC		TLA	Automatic High Beam Camera Only
CAS (Ignition status) (KL 15)	130	00	00	05	00	xx	xx	xx				00 engine off		FRM	Footwell module (Lighting)
CAS (Ignition status) (KL 15)	130	00	00	05	00	12	36	xx				40 engine off (key is being inserted) 12 and 36 sent 3x when going from k		FRR	Active cruise control
CAS (Ignition status) (KL 15)	130	00	00	05	00	12	36	xx				40 engine off (key is being inserted) sent 4x before next message		FZD	Function unit roof
CAS (Ignition status) (KL 15)	130	00	00	05	01	36	xx	xx				41 engine off (key is in position 1 also this value when engine is stopped)		GRAS	Regulated Rear Axle
CAS (Ignition status) (KL 15)	130	00	00	05	05	38	3F	xx				45 engine running, (also key to position 2) (E=03) measured stand still, n		GWS	Gear selection switch
CAS (Ignition status) (KL 15)	130	00	00	05	55	xx	xx	xx				55 engine is turning on (from key or auto start) Need confirmation		HC2	Heating Control 2
DOE	582	00	00	08	40	1F	00	15	00	00	00	Instrument errors and lights, look into call BS, D3 *31* activates error		H2M	Head Up Display
DOE	582	00	00	08	40	1F	00	15	00	00	00	*31* deactivates error, value 15 reason unknown		H3	Head Up Display (Drive System)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		HU_ENTRY	Head Unit Entry (Fuel no (Drive System)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		HU_CHAMP	Head Unit CAC Mid (Drive System)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		HU_CIC	Head Unit CIC High (Drive System)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		HU_NBT	Head Unit NBT (Drive System)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		IC2	Lane Change Warning
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		ICM_OL	Integrated Chassis Management
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		ICM_V	Integrated Chassis Management Vertical (Vertical dynamics management)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		IHK_A	Integrated automatic heating/air conditioning system
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		JBBF	Junction box electronics
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		JBE	Junction box electronics
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		K-AS	Camera System (LDR, AHS, SII)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		KOMBI	Instrument cluster
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		LHM	LED Headlights main light modules (fan and LEDs for the cornering light, low-beam and high-beam headlights)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		NEV1	Next Camera
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		PDC	Park distance control
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		PMA2	Parking Assist
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		REK	Tyre pressure control
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		REM	Rear Electronics Module
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		RSE	Rear Seat Entertainment
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		SM	Seat module / Seat Memory
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		SMB	Accumulator management electronics
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		SMBF	Seat module / Seat Memory Passenger
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		SZL_LWS	Steering column control unit
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		SNT	Servotronic
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		TCB	Telematics Communication Box (BMW ASSIST)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		TMS	LED Headlights (dipper motors for the Adaptive LED Headlights and LEDs for the side marker light, the positioning light and the turn indicator)
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		TRSYCV	All around view camera
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		TRE	Drive Controller Touch Handwriting Module
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		VEK1	Vertical Dynamic Control 1
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		VEK2	Vertical Dynamic Control 2
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		VEH	Vehicle dynamics Management
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		ZBE	Drive Controller
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING		ZGW	Central gateway module
DOE	582	00	00	08	40	1F	00	15	00	00	00	RANDOM READING			https://www.dodge.com/384666by/384666by/384666by.pdf?docId=384666by/384666by/384666by.pdf
IHKA	185	00	00	06	00	FF	02	08	FF			Heat flow/load moment clima			
IHKA	578	00	00	08	08	00	FE	01	04	00		Services			
KGM	480	00	00	08	12	42	F0	01	00	00	02	Network management			
KXP	497	00	00	08	18	42	FF	FF	FF	FF	FF	Network management			
EKP	935	00	00	08	00	EC	7F	59	24	75	CB	Network management			
LM	176	00	00	02	91	F1						Headlight flashing			
OD	573	00	00	08	01	02	3A	FF	FF	FF	FF	Services			
ACSM	27A	00	00	05	02	FF	FF	FF	FF	FF	FF	Subalt status			
ACSM	135	00	00	02	FF	FF						Control crash disconnection			
AFS	496	00	00	08	17	42	FF	FF	FF	FF	FF	Network management			
AFS	14C	00	00	02	AA	03						Status AFS			
AFS	83	00	00	04	41	1E	1E	1E	1E	1E	1E	Torque demand			
AFS	89	00	00	06	05	26	02								

Category	CAN command	ID	L DATA	1	2	3	4	5	6	7	8	Hex formatted	Hex to Integers...	Comment
STEERING WHEEL Commands														
STEERING WHEEL MULTIFUNCTION PRESS	02820300	228	2 0300	03	00							03 00	3 0 0 0 0 0 0 0	
STEERING WHEEL MULTIFUNCTION RELEASE	02820300	228	2 0300	00	00							00 00	0 0 0 0 0 0 0 0	0 02820300
STEERING WHEEL NEXT TRACK PRESS	10D62000	106	2 0E00	E0	00							E0 00	224 0 0 0 0 0 0 0 0	
STEERING WHEEL NEXT TRACK RELEASE	10D62000	106	2 0E00	C0	00							C0 00	192 0 0 0 0 0 0 0 0	
STEERING WHEEL PREVIOUS TRACK PRESS	10D62000	106	2 0D00	D0	00							D0 00	208 0 0 0 0 0 0 0 0	
STEERING WHEEL PREVIOUS TRACK RELEASE	10D62000	106	2 0D00	C0	00							C0 00	192 0 0 0 0 0 0 0 0	
STEERING WHEEL CHANGE MODE PRESS														NO CMD
STEERING WHEEL CHANGE MODE RELEASE														NO CMD
STEERING WHEEL VOICE CONTROL PRESS	10D62001	106	2 0C01	C0	01							C0 01	192 1 0 0 0 0 0 0 0	
STEERING WHEEL VOICE CONTROL RELEASE	10D62000	106	2 0C00	C0	00							C0 00	192 0 0 0 0 0 0 0 0	
STEERING WHEEL VOLUME UP PRESS	10D62C00	106	2 C800	C8	00							C8 00	200 0 0 0 0 0 0 0 0	
STEERING WHEEL VOLUME UP RELEASE	10D62C00	106	2 C000	C0	00							C0 00	192 0 0 0 0 0 0 0 0	
STEERING WHEEL VOLUME DOWN PRESS	10D62C00	106	2 C400	C4	00							C4 00	196 0 0 0 0 0 0 0 0	
STEERING WHEEL VOLUME DOWN RELEASE	10D62C00	106	2 C000	C0	00							C0 00	192 0 0 0 0 0 0 0 0	
STEERING WHEEL TELEPHONE PRESS	10D62C10	106	2 C100	C1	00							C1 00	193 0 0 0 0 0 0 0 0	
STEERING WHEEL TELEPHONE RELEASE	10D62C00	106	2 C000	C0	00							C0 00	192 0 0 0 0 0 0 0 0	
STEERING WHEEL TURN	0C47F129FC0080FFFC	~	F129FC0080FFFC	F1	29	FC	00	80	FF	FF		F1 29 FC 00 80 FF FF	241 41 252 0 128 255 255 0 0	0 C4 TWO BYTES - LH+H COUNTER NIBITS DECADEC
SUN Covers and windows														
Move all Sun covers	9C0CF3FFF	362	3 FFFF	FE	FF	FF						FE FF FF	254 255 255 0 0 0 0 0 0	
Move only left sun cover	9C0CF3FFF	362	3 FFFF	FD	FF	FF						FD FF FF	253 255 255 0 0 0 0 0 0	
Wipers														
On Wipe up	0520C3FF	312	2 C1FF	C1	FF							C1 FF	193 255 0 0 0 0 0 0 0 0	
On Wipe down	0520C3FF	312	2 C2FF	C2	FF							C2 FF	194 255 0 0 0 0 0 0 0 0	
resting	0520C4FF	312	2 C4FF	C4	FF							C4 FF	196 255 0 0 0 0 0 0 0 0	
Climate (limited)														
Air flow from outside	04231F10	362	3 01FF	01	F1	F0						01 F1 F0	1 241 240 0 0 0 0 0 0 0 0	
Air flow from outside	04231F10	362	3 11FF	11	F1	F0						11 F1 F0	17 241 240 0 0 0 0 0 0 0 0	
Air flow circulating inside	042321F0	362	3 21FF	21	F1	F0						21 F1 F0	33 241 240 0 0 0 0 0 0 0 0	
Indicator lever														
Indicator lever right until resistance	1EE201FF	182	2 01FF	01	FF							01 FF	1 255 0 0 0 0 0 0 0 0	
Indicator lever right beyond resistance	1EE201FF	182	2 02FF	02	FF							02 FF	2 255 0 0 0 0 0 0 0 0	
Indicator lever left until resistance	1EE201FF	182	2 01FF	01	FF							01 FF	1 255 0 0 0 0 0 0 0 0	
Indicator lever left beyond resistance	1EE204FF	182	2 04FF	04	FF							04 FF	4 255 0 0 0 0 0 0 0 0	
Indicator lever back to neutral	1EE208FF	182	2 08FF	08	FF							08 FF	8 255 0 0 0 0 0 0 0 0	
Indicator lever to left (warning lights only one flash)	1EE209FF	182	2 09FF	09	FF							09 FF	9 255 0 0 0 0 0 0 0 0	
Indicator lever to front (warning lights permanent)	1EE210FF	182	2 10FF	10	FF							10 FF	16 255 0 0 0 0 0 0 0 0	
Indicator lever - upper small button	1EE280FF	182	2 80FF	80	FF							80 FF	128 255 0 0 0 0 0 0 0 0	
Indicator lever - lower small button	1EE240FF	182	2 40FF	40	FF							40 FF	64 255 0 0 0 0 0 0 0 0	
Dashboard Buttons														
HANDBRAKE PRESS														NO CMD
HANDBRAKE RELEASE														NO CMD
CONTROL OF LIGHTS ZERO POSITION	01A3030FC	31A	3 030FC	00	30	FC						00 30 FC	0 48 252 0 0 0 0 0 0 0 0	
CONTROL OF LIGHTS POSITION	01A3030FC	31A	3 030FC	04	32	FC						04 32 FC	4 50 252 0 0 0 0 0 0 0 0	
CONTROL OF LIGHTSCROSSING	01A3030FC	31A	3 030FC	05	32	FC						05 32 FC	5 50 252 0 0 0 0 0 0 0 0	
CONTROL OF LIGHTS AUTOMATIC	01A3030FC	31A	3 030FC	05	32	FC						05 32 FC	5 50 252 0 0 0 0 0 0 0 0	
Dimmer minimum	022200FF	302	2 00FF	00	FF							00 FF	0 255 0 0 0 0 0 0 0 0	
Dimmer maximum	022200FF	302	2 00FF	EF	FF							EF FF	239 255 0 0 0 0 0 0 0 0	
FOG LAMP FRONT PRESS	01A34320FC	31A	3 4320FC	25	32	FC						25 32 FC	37 50 252 0 0 0 0 0 0 0 0	
FOG LAMP FRONT RELEASE	01A34320FC	31A	3 4320FC	45	32	FC						45 32 FC	69 50 252 0 0 0 0 0 0 0 0	
FOG LAMP REAR PRESS	01A36320FC	31A	3 6320FC	65	32	FC						65 32 FC	101 50 252 0 0 0 0 0 0 0 0	0 HAVE TO BE THE LIGHTS - AND HOW TO ZERO CROSSING
FOG LAMP REAR RELEASE	01A36320FC	31A	3 6320FC	85	32	FC						85 32 FC	135 50 252 0 0 0 0 0 0 0 0	
DIMMER WHEEL MAXIMUM BRIGHT	022203FF	302	2 03FF	E3	FF							E3 FF	227 255 0 0 0 0 0 0 0 0	
DIMMER WHEEL MINIMUM BRIGHT	022203FF	302	2 03FF	00	FF							00 FF	0 255 0 0 0 0 0 0 0 0	
TRUNK OPEN PRESS														NO CMD
TRUNK OPEN RELEASE														NO CMD
PARK DISTANCE CONTROL PRESS	10C40002S2	10A	4 0002S2	00	00	S2						00 00 S2	0 0 82 82 0 0 0 0 0 0 0 0	
PARK DISTANCE CONTROL RELEASE	10C40002S2	10A	4 0002S2	00	00	S2						00 00 S2	0 0 82 82 0 0 0 0 0 0 0 0	0 08 REPOSD
PARK DISTANCE CONTROL SENSORS	10C40002S2	10A	4 0002S2	FE	FE	FE	FE	FE	FE	FE	FE	FE FE FE FE FE FE FE	254 254 254 254 254 254 254 0 0	
WHEEL MOVEMENT UP	1EA2F4FF	18A	2 F4FF	F4	FF							F4 FF	244 255 0 0 0 0 0 0 0 0	
WHEEL MOVEMENT DOWN	1EA2F8FF	18A	2 F8FF	F8	FF							F8 FF	248 255 0 0 0 0 0 0 0 0	
WHEEL MOVEMENT FRONT	1EA2F2FF	18A	2 F2FF	F2	FF							F2 FF	242 255 0 0 0 0 0 0 0 0	
WHEEL MOVEMENT REAR	1EA2F6FF	18A	2 F6FF	F6	FF							F6 FF	246 255 0 0 0 0 0 0 0 0	
CHANGE CONTROL SPEED CONTROL PROGRAMMER														NO CMD
SEAT Buttons														
SEAT HEATING DRIVER SEAT MORE	1E72F1FF	187	2 F1FF	F1	FF							F1 FF	241 255 0 0 0 0 0 0 0 0	
SEAT HEATING DRIVER SEAT OFF	1E72F5FF	187	2 F5FF	F5	FF							F5 FF	245 255 0 0 0 0 0 0 0 0	
SEAT HEATING PASSENGER SEAT MORE	1E72F1FF	189	2 F1FF	F1	FF							F1 FF	241 255 0 0 0 0 0 0 0 0	
SEAT HEATING PASSENGER SEAT OFF	1E72F5FF	189	2 F5FF	F5	FF							F5 FF	245 255 0 0 0 0 0 0 0 0	
<i>(and 3 of MORE and you have full heat bypassing the other levels)</i>														
DRIVER SEAT MEMORY M PRESS	1F32F2FF	193	2 F2FF	FC	FF							FC FF	252 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MEMORY M RELEASE	1F32F6FF	193	2 F6FF	F8	FF							F8 FF	248 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MEMORY 1 PRESS	1F32F6FF	193	2 F6FF	F9	FF							F9 FF	249 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MEMORY 1 RELEASE	1F32F2FF	193	2 F2FF	F8	FF							F8 FF	248 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MEMORY 2 PRESS	1F32F4FF	193	2 F4FF	FA	FF							FA FF	250 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MEMORY 2 RELEASE	1F32F8FF	193	2 F8FF	F8	FF							F8 FF	248 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MOVEMENT REEST	8D4A100C00FF	00A	4 000C00	00	00	CO						00 00 CO	0 0 192 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MOVEMENT FRONT	8D4A100C00FF	00A	4 000C00	00	00	CO						00 00 CO	0 0 192 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MOVEMENT REAR	8D4A100C00FF	00A	4 000C00	02	00	CO						02 00 CO	2 0 192 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MOVEMENT UP	8D4A100C00FF	00A	4 000C00	04	00	CO						04 00 CO	4 0 192 255 0 0 0 0 0 0 0 0	
DRIVER SEAT MOVEMENT DOWN	8D4A100C00FF	00A	4 000C00	06	00	CO						06 00 CO	6 0 192 255 0 0 0 0 0 0 0 0	
DRIVER SEAT TLT CLOCKWISE	8D4A100C00FF	00A	4 200C00	20	00	CO						20 00 CO	32 0 192 255 0 0 0 0 0 0 0 0	
DRIVER SEAT TLT COUNTERCLOCKWISE	8D4A100C00FF	00A	4 100C00	10	00	CO						10 00 CO	16 0 192 255 0 0 0 0 0 0 0 0	
i-Drive wheel commands														
LDRIVE ROTATION	1B860F00F003322	186	6 0F00F003322	0F	00	F0						0F 00 F0 00 33 22	15 0 0 253 0 51 34 0 0 0 0	
F9 COUNTER	1B860F00F003322	186	6 0F00F003322	0F	00	F0						0F 00 F0 00 33 22	15 0 0 253 0 51 34 0 0 0 0	
FF HAPTIC ALMPS	1B860F00F003322	186	6 0F00F003322	0F	00	F0						0F 00 F0 00 33 22	15 0 0 248 255 119 34 0 0 0 0	
LDRIVE RELEASE	1B860F00F003322	186	6 0F00F003322	0F	01	FC						0F 01 FC 00 20 22	15 1 252 255 32 34 0 0 0 0	
LDRIVE MOVEMENT FRONT	1B860000F04F016	186	6 0000F04F016	00	00	FC						00 00 FC 04 F0 16	15 0 0 250 4 240 22 0 0 0 0	
LDRIVE MOVEMENT REAR	1B860000F04F016	186	6 0000F04F016	04	00	FC						04 00 FC 04 F0 16	0 15 240 22 0 0 0 0	0 0 PRIMER 00
LDRIVE MOVEMENT LEFT	1B860000004A022	186	6 0000004A022	00	00	0C						00 00 0C 04 90 22	6 0 20 1 240 22 0 0 0 0	
LDRIVE MOVEMENT RIGHT	1B860000004A022	186	6 0000004A022	02	00	0C						02 00 0C 04 90 22	2 0 12 4 144 34 0 0 0 0	
LDRIVE MOVEMENT FRONT LEFT	1B860100001022	186	6 0100001022	0F	00	20						0F 00 20 00 10 22	7	

The reverse engineering was done on Dacia Sandero second generation. It should be the same for many models in the Renault group.		
As sheets are not really appropriate to describe CAN data at bit level, I've chosen Markdown instead:		
https://github.com/cpocol/canDrive/blob/main/02_canSniffer_GUI/save/CAN_Messages_Sandero.md		

Equipment	ID	RTR	IDE	DLC	D0	D1	D2	D3	D4	D5	D6	D7	Comment
TurnOFFLights	140	00	00	3	00	0A	00						Default off lights
TurnONLights	140	00	00	3	00	12	00						On the primary position

all work has already been done	
MKV GTI CAN-BUS data	

[1] first wheel

[2] first wheel

[3] second wheel

[4] second wheel

[5] third wheel

[6] third wheel

[7] fourth wheel

[8] fourth wheel

[9] 80 or 00

80= accelerateing/decelerateing

80= pushing ESP (de)activation button

jumps between 80 and 00 with cruise activated

[10] 08 FA 00 FA FE 00 00 00

0C FA 00 FA FD 00 00 00

00 FA 00 FA 00 00 00 00

04 FA 00 FA FF 00 00 00

[11] 5C E9 00 D0 00 00 00 5E

50 E9 00 D0 00 00 00 5E

54 E9 00 D0 00 00 00 5E

58 E9 00 D0 00 00 00 5E