PGN (group) configuration

NOTES

1) ECI DEC PGNs align with SAE J1939 or NMEA 2000 PGNs if PDU-F >239. If PDU-F=0 then message PGN=PDU-S and is destination address specific. These are PGNs to be included in comms calibration.

2) Inherently supported parameter groups (identified by YES) do not need to be and MUST NOT be configured in the ECU calibration. These are AUTOMATICALLY supported.
3) Total number of PGNs broadcast continuously and received by ECU must be≤ 23 on GCP (PGNs with PDU-F <240 do not count against total), ≤ 12 LCI platforms, and ≤ 10 on 56-way.
4) Bytes (SPNs) not supported within a parameter group are identified with ~~strikethrough~~
5) Proprietary PGNs are identified in italics
6) PGNs identified below are supported in ECI ECMs in part or in full. PGNs not found on the list are not presently supported.
7) The ECI Dec PGN is the PGN that is meant to be populated into the engine calibration but it may not correspond to the actual decimal PGN on the network. For PDU-F of 239 messages on the network are SA and DA specific with a PGN of 61184
8) PGNs with 'Source Address'= DEFAULT or 0 are for Broadcast, 'Source Address'= Numeric value is for Rx only.

Platform Supported	Group Acronym	Group Description	Reference	PDU-F	PDU-S	ECI Dec PGN	ECI Hex PGN	Dest Addr	Rsrvd Bit	Data Page	Priority	Source Address	Size	Tx Interval (ms)	Rx Timeout (ms)	Inherent Tx/Rx Support	Byte	Parameter Name	SPN
GCP, 56-way, LCI, 4G	ADDRCLAIM	Address claim	J1939-81, 4.2.2	238	0	60928	0xEE00	255	0	0	6	DEFAULT	8	0	0	YES	1	NAME	65534
GCP, 56-way, LCI, 4G	NACK	Not-acknowledged PGN	J1939-21, 5.4.4	232	0	59392	0xE800	255	0	0	6	DEFAULT	8	0	0	YES	1	NACK	65533
GCP, 56-way, LCI, 4G	PGNREQ	Request PGN	J1939-21, 5.4.2	234	0	59904	0xEA00	255	0	0	6	DEFAULT	3	0	0	YES	1	PGN_req	65532
GCP, 56-way, LCI, 4G	DM3	Clear historic DTCs	J1939-73, 5.7.3	254	204	65228	0xFECC	255	0	0	6	DEFAULT	0	0	0	YES	1	DM3	65531
GCP, 56-way, LCI, 4G	DM11	Clear active DTCs	J1939-73, 5.7.11	254	211	65235	0xFED3	255	0	0	6	DEFAULT	0	0	0	YES	1	DM11	65530
GCP, 56-way, LCI, 4G	DM1	Active DTCs	J1939-73, 5.7.1	254	202	65226	0xFECA	255	0	0	6	DEFAULT	8	1000	0	YES	1	lamp_stat	1213
																	2	~~NOT_DEFINED~~	~~0~~
																	3	DTC_none	0
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	DM2	Historic DTCs	J1939-73, 5.7.2	254	203	65227	0xFECB	255	0	0	6	DEFAULT	8	1000	0	YES	1	lamp_stat	1213
																	2	~~NOT_DEFINED~~	~~0~~
																	3	DTC_none	0
																	7	~~NOT_DEFINED~~	~~0~~
GCP, LCI	DM4	Freeze Frame DTCs	J1939-73, 5.7.4	254	205	65229	0xFECD	255	0	0	6	DEFAULT	8	1000	0	YES	1	frzfrm_len_none	0
																	2	frzfrm_DTC_none	0
																	6	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	DM5	Diagnostic readiness	J1939-73, 5.7.5	254	206	65230	0xFECE	255	0	0	6	DEFAULT	8	0	0	YES	1	DTC_actv_cnt	0
																	2	DTC_hist_cnt	0
																	3	OBD_comply	0
																	4	~~con_mon_sup_stat~~	~~0~~
																	5	~~non_con_mon_sup~~	~~0~~
																	7	~~non_con_mon_stat~~	~~0~~
GCP, LCI, 4G	DM19	Calibration Information	J1939-73, 5.7.19	211	0	54016	0xD300	255	0	0	7	DEFAULT	8	60	0	YES	1	cal_info_ver	1634
																	5	cal_info_ID	1635
GCP, 56-way, LCI, 4G	TP_BAM	Transport protocol - broadcast announce message	J1939-21, 5.10.3	236	32	60448	0xEC20	255	0	0	7	DEFAULT	8	60	0	YES	1	TP_BAM_control	0
																	2	TP_BAM_bytes	0
																	4	TP_BAM_packs	0
																	5	NOT_DEFINED	0
																	6	TP_BAM_PGN	0
GCP, 56-way, LCI, 4G	TP_RTS	Transport protocol - request to send message	J1939-21, 5.10.3	236	16	60432	0xEC10	DEFAULT	0	0	7	DEFAULT	8	60	0	YES	1	TP_RTS_control	0
																	2	TP_RTS_bytes	0
																	4	TP_RTS_packs	0
																	5	NOT_DEFINED	0
																	6	TP_RTS_PGN	0
GCP, 56-way, LCI, 4G	TP_ABORT	Transport protocol - RTS/CTS abort message	J1939-21, 5.10.3	236	255	60671	0xECFF	255	0	0	7	DEFAULT	8	60	0	YES	1	TP_ABORT_control	0
																	2	NOT_DEFINED	0
																	4	NOT_DEFINED	0
																	6	TP_RTS_PGN	0
GCP, 56-way, LCI, 4G	TP_DT	Transport protocol - data transfer	J1939-21, 5.10.5	235	0	60160	0xEB00	255	0	0	7	DEFAULT	8	60	0	YES	1	TP_DT_sequence	0
																	2	TP_DT_data1	0
																	3	TP_DT_data2	0
																	4	TP_DT_data3	0
																	5	TP_DT_data4	0
																	6	TP_DT_data5	0
																	7	TP_DT_data6	0
																	8	TP_DT_data7	0
GCP, 56-way, LCI, 4G	EEC1	Electronic Engine Controller #1	J1939-71, 5.3.7	240	4	61444	0xF004	255	0	0	3	DEFAULT	8	20	40	NO	1	~~torq_stat1~~	~~0~~
																	2	~~torq_pct_drv~~	~~0~~
																	3	torq_pct_act	513
																	4	speed_eng	190
																	6	~~source_addr_eng~~	~~0~~
																	7	NOT_DEFINED	0
GCP, 56-way, LCI, 4G	EEC3	Electronic Engine Controller #3	J1939-71, 5.3.13	254	223	65247	0xFEDF	255	0	0	6	DEFAULT	8	250	500	NO	1	~~torq_pct_fric~~	~~0~~
																	2	speed_eng_des	515
																	4	~~speed_eng_asym~~	~~0~~
																	5	~~torq_pct_parasitic~~	~~0~~
																	6	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	ET1	Engine Temperature #1	J1939-71, 5.3.28	254	238	65262	0xFEEE	255	0	0	6	DEFAULT	8	1000	2000	NO	1	temp_ECT	110
																	2	~~temp_FRT~~	~~0~~
																	3	~~temp_OILT~~	~~0~~
																	5	~~temp_turbo~~	~~0~~
																	7	temp_IAT	52
																	8	~~thermostat_IAT~~	~~0~~
GCP, 56-way, LCI, 4G	TSC1_GSCRx	Torque/Speed Control #1 - Genset Controller Rx of command	J1939-71, 5.3.1	0	234	234	0x00EA	0	0	0	3	234	8	50	100	NO	1	tsc_control	695
																	2	speed_eng_req	898
																	4	torq_eng_req	518
																	5	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	IC	Inlet/Exhaust Conditions	J1939-71, 5.3.36	254	246	65270	0xFEF6	255	0	0	6	DEFAULT	8	500	1000	NO	1	~~press_partic_in~~	~~0~~
																	2	press_comp_out	102
																	3	temp_MAT	105
																	4	press_MAP	106
																	5	~~press_airfilt_dp~~	~~0~~
																	6	~~temp_EGT~~	~~0~~
																	8	~~press_coolfilt_dp~~	~~0~~
GCP, 56-way, LCI, 4G	EFLP1	Engine Fluid Level/Pressure #1	J1939-71, 5.3.29	254	239	65263	0xFEEF	255	0	0	6	DEFAULT	8	500	1000	NO	1	~~press_fuel_del~~	~~0~~
																	2	~~press_crkcase_bb~~	~~0~~
																	3	level_eng_oil	98
																	4	press_eng_oil	100
																	5	~~press_crkcase~~	~~0~~
																	7	~~press_cool~~	~~0~~
																	8	~~level_cool~~	~~0~~
GCP, 56-way, LCI, 4G	LFE	Fuel Economy (liquid)	J1939-71, 5.3.32	254	242	65266	0xFEF2	255	0	0	6	DEFAULT	8	100	200	NO	1	rate_liqfuel	183

PGN (group) configuration

NOTES

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2) Inherently supported parameter groups (identified by YES) do not need to be and MUST NOT be configured in the ECU calibration. These are AUTOMATICALLY supported.
3) Total number of PGNs broadcast continuously and received by ECU must be≤ 23 on GCP (PGNs with PDU-F <240 do not count against total), ≤ 12 LCI platforms, and ≤ 10 on 56-way.
4) Bytes (SPNs) not supported within a parameter group are identified with ~~strikethrough~~
5) Proprietary PGNs are identified in *italics*
6) PGNs identified below are supported in ECI ECMs in part or in full. PGNs not found on the list are not presently supported.
7) The ECI Dec PGN is the PGN that is meant to be populated into the engine calibration but it may not correspond to the actual decimal PGN on the network. For PDU-F of 239 messages on the network are SA and DA specific with a PGN of 61184
8) PGNs with 'Source Address'= DEFAULT or 0 are for Broadcast, 'Source Address'= Numeric value is for Rx only.

Platform Supported	Group Acronym	Group Description	Reference	PDU-F	PDU-S	ECI Dec PGN	ECI Hex PGN	Dest Addr	Rsrvd Bit	Data Page	Priority	Source Address	Size	Tx Interval (ms)	Rx Timeout (ms)	Inherent Tx/Rx Support	Byte	Parameter Name	SPN
																	3	~~econo_liqfuel_inst~~	~~0~~
																	5	~~econo_liqfuel_avg~~	~~0~~
																	7	pos_TPS	51
																	8	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	SHUTDOWN	Shutdown	J1939-71, 5.3.18	254	228	65252	0xFEE4	255	0	0	6	DEFAULT	8	1000	2000	NO	1	~~SD_idle_1~~	~~0~~
																	2	~~SD_idle_2~~	~~0~~
																	3	~~press_refrig_1~~	~~0~~
																	4	~~cmd_lamp~~	~~0~~
																	5	SD_eng_1	1110
																	6	~~SD_eng_2~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	*GENPWR_PMRx*	*Genset generator power parameters - Power Monitor Rx packet*	ECI Custom	239	240	61424	0xEFF0	0	0	0	1	240	8	10	20	NO	1	volt_gen_leg	65500
																	3	amp_gen_leg	65499
																	5	freq_gen	65498
																	7	phase_gen	65497
GCP, 56-way, LCI, 4G	VEP	Vehicle Electrical Power	J1939-71, 5.3.37	254	247	65271	0xFEF7	255	0	0	6	DEFAULT	8	1000	2000	NO	1	~~amp_bat_net~~	~~0~~
																	2	~~amp_alt~~	~~0~~
																	3	~~volt_alt~~	~~0~~
																	5	volt_bat	168
																	7	volt_sw	158
GCP, 56-way, LCI, 4G	EEC2	Electronic Engine Controller #2	J1939-71, 5.3.6	240	3	61443	0xF003	255	0	0	3	DEFAULT	8	50	100	NO	1	pedal_stat	558
																	2	pedal_pos1	91
																	3	load_pct	92
																	4	~~pedal_rmt~~	~~0~~
																	5	pedal_pos2	29
																	6	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	TSC1_VCRx	Torque/Speed Control #1 - Vehicle Controller Rx of command	J1939-71, 5.3.1	0	39	39	0x0027	0	0	0	3	39	8	10	30	NO	1	tsc_control	695
																	2	speed_eng_req	898
																	4	torq_eng_req	518
																	5	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	ENV_ETRx	*Environmental conditions - from EnviroTech to ECM message*	ECI Custom	239	235	61419	0xEFEB	0	0	0	7	235	8	1000	2200	NO	1	press_baro	108
																	2	temp_AAT	172
																	3	humidity_spec	65477
																	5	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	MJ1_ECM_MJ	*Megajector/ECM comm - from ECM to MJ message 1*	ECI Custom	239	128	61312	0xEF80	18	0	0	0	DEFAULT	8	10	25	NO	1	MJ_cntrl_cmd	65489
																	2	MJ_press_cmd	65487
																	4	MJ_area_cmd	65485
																	6	MJ_param_ECM2MJ1	65473
																	7	MJ_param_ECM2MJ2	65472
																	8	MJ_param_ECM2MJ3	65471
GCP, 56-way, LCI, 4G	MJ1_MJ_ECM	*Megajector/ECM comm - from MJ to ECM message 1*	ECI Custom	239	18	61202	0xEF12	DEFAULT	0	0	3	18	8	20	50	NO	1	MJ_cntrl_act	65488
																	2	MJ_press_act	65486
																	4	MJ_area_act	65484
																	6	MJ_param_MJ2ECM1	65476
																	7	MJ_param_MJ2ECM2	65475
																	8	MJ_param_MJ2ECM3	65474
GCP, 56-way, LCI, 4G	HOURS	Engine hours / revolutions	J1939-71	254	229	65253	0xFEE5	255	0	0	6	DEFAULT	8	2000	10000	NO	1	hours_eng	247
																	5	~~revs_eng~~	~~0~~
GCP, LCI, 4G	NMEA_ENGRPD	NMEA - Engine Parameters - rapid update	NMEA 2000	242	0	61952 (127488)	0xF200	255	0	1	2	DEFAULT	8	100	200	NO	1	NMEA_eng_inst	65424
																	2	NMEA_speed_eng	65423
																	4	~~NMEA_press_MAP~~	~~0~~
																	6	~~NOT_DEFINED~~	~~0~~
																	8	~~NOT_DEFINED~~	~~0~~
GCP, LCI, 4G	NMEA_ENGDYN	NMEA - Engine Parameters - dynamic	NMEA 2000	242	1	61953 (127489)	0xF201	255	0	1	2	DEFAULT	22	1000	2000	NO	1	NMEA_eng_inst	65424
																	2	NMEA_press_eng_oil	65421
																	4	~~NMEA_temp_eng_oil~~	~~0~~
																	6	NMEA_temp_ECT	65420
																	8	NMEA_volt_bat	65419
																	10	NMEA_rate_liqfuel	65418
																	12	NMEA_hours_eng	65417
																	16	~~NMEA_press_ECT~~	~~0~~
																	18	~~NMEA_press_fuel~~	~~0~~
																	20	NMEA_trim_pos	65416
																	21	NMEA_stat_eng	65415
GCP, 56-way, LCI, 4G	IT6	Ignition timing #6	J1939-71	254	135	65159	0xFE87	255	0	0	7	DEFAULT	8	0	0	NO	1	~~NOT_DEFINED~~	~~0~~
																	3	~~NOT_DEFINED~~	~~0~~
																	5	~~NOT_DEFINED~~	~~0~~
																	7	timing_spark_act	1436
GCP, 56-way, LCI, 4G	EEC4	Electronic Engine Controller #4	J1939-71	254	190	65214	0xFEBE	255	0	0	7	DEFAULT	8	0	0	NO	1	power_max	166
																	3	speed_max_des	189
																	5	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	DAQ_Plow_1	*Data Acquisition - low-pressure sender 1*	ECI Custom	239	140	61324	0xEF8C	255	0	0	2	140	2	10	20	NO	1	DAQ_PL_1	65453
GCP, 56-way, LCI, 4G	DAQ_Plow_2	*Data Acquisition - low-pressure sender 2*	ECI Custom	239	141	61325	0xEF8D	255	0	0	2	141	2	10	20	NO	1	DAQ_PL_2	65452
GCP, 56-way, LCI, 4G	DM13_VCRx	Broadcast stop/start/hold from vehicle controller	J1939-73, 5.7.13	223	39	57127	0xDF27	255	0	0	6	39	8	0	6100	YES	1	broadcast_ctl	1230
																	2	~~NOT_DEFINED~~	~~0~~
																	3	~~NOT_DEFINED~~	~~0~~
																	4	broadcast_hold	1236
																	5	~~NOT_DEFINED~~	~~0~~
																	6	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~

PGN (group) configuration

NOTES

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Platform Supported	Group Acronym	Group Description	Reference	PDU-F	PDU-S	ECI Dec PGN	ECI Hex PGN	Dest Addr	Rsrvd Bit	Data Page	Priority	Source Address	Size	Tx Interval (ms)	Rx Timeout (ms)	Inherent Tx/Rx Support	Byte	Parameter Name	SPN
																	8	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	DM13_GSCRx	Broadcast stop/start/hold from genset controller	J1939-73, 5.7.13	223	234	57322	0xDFEA	255	0	0	6	234	8	0	6100	YES	1	broadcast_ctl	1230
																	2	~~NOT_DEFINED~~	~~0~~
																	3	~~NOT_DEFINED~~	~~0~~
																	4	broadcast_hold	1236
																	5	~~NOT_DEFINED~~	~~0~~
																	6	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
																	8	~~NOT_DEFINED~~	~~0~~
GCP, 56-way, LCI, 4G	CCPDT_ECM_DST	CCP DT comm - from ECM to Diagnostic Scan Tool	Volvo Custom	255	81	65361	0xFF51	249	0	0	3	DEFAULT	8	5	0	YES	1	CCPDT_ECMout	0
GCP, 56-way, LCI, 4G	CCPCR_DST_ECM	CCP CR comm - from Diagnostic Scan Tool to ECM	Volvo Custom	255	80	65360	0xFF50	DEFAULT	0	0	3	249	8	0	1000	YES	1	CCPCR_TOOLout	0
GCP, LCI, 4G	CI	Component ID	J1939-71, 5.3	254	235	65259	0xFEEB	255	0	0	6	DEFAULT	8	60	0	NO	1	CI_make	586
																	2	CI_HW_model	587
																	3	CI_HW_serial	588
																	4	CI_unit	233
																	5	FILLER	0
																	6	FILLER	0
																	7	FILLER	0
																	8	FILLER	0
GCP, LCI, 4G	SOFT	Software ID	J1939-71, 5.3	254	218	65242	0xFEDA	255	0	0	6	DEFAULT	8	60	0	NO	1	SOFT_field_count	965
																	2	SOFT_SW_model	234
																	3	~~SOFT_original_cal~~	~~0~~
																	4	~~SOFT_lastest_cal~~	~~0~~
																	5	~~FILLER~~	~~0~~
																	6	~~FILLER~~	~~0~~
																	7	~~FILLER~~	~~0~~
																	8	~~FILLER~~	~~0~~
GCP, LCI, 4G	ECUID	ECU ID	J1939-71	253	197	64965	0xFDC5	255	0	0	6	DEFAULT	8	60	0	NO	1	ECU_HW_model	2901
																	2	ECU_HW_serial	2902
																	3	ECU_HW_loc	2903
																	4	ECU_HW_type	2904
																	5	~~FILLER~~	~~0~~
																	6	~~FILLER~~	~~0~~
																	7	~~FILLER~~	~~0~~
																	8	~~FILLER~~	~~0~~
GCP, LCI, 4G	VI	Vehicle ID	J1939-71	254	236	65260	0xFEEC	255	0	0	6	DEFAULT	8	60	0	NO	1	VEH_ID	237
																	5	~~NOT_DEFINED~~	~~0~~
GCP, LCI, 4G	TSC1_TRANSRx	Torque/Speed Control #1 - Transmission Rx of command	J1939-71, 5.3.1	0	3	3	0x0003	0	0	0	3	3	8	10	30	NO	1	tsc_control	695
																	2	speed_eng_req	898
																	4	torq_eng_req	518
																	5	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 4G	VP	Vehicle Position	J1939-71	254	243	65267	0xFEF3	255	0	0	6	DEFAULT	8	200	2200	NO	1	Latitude	584
																	5	Longitude	585
GCP, 4G	TSC1_JLGRx	*Torque/Speed Control #1 - JLG Rx of command*	J1939-71, 5.3.1	0	208	208	0x00D0	0	0	0	3	208	8	10	30	NO	1	tsc_control	695
																	2	speed_eng_req	898
																	4	torq_eng_req	518
																	5	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 4G	TSC1_VolvoRx	*Torque/Speed Control #1 - Volvo-Penta Rx of command*	J1939-71, 5.3.1	0	17	17	0x0011	0	0	0	3	17	8	10	30	NO	1	tsc_control	695
																	2	speed_eng_req	898
																	4	torq_eng_req	518
																	5	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 4G	ETC2_VolvoRx	Electronic Transmission Controller #2	J1939-71	240	5	61445	0xF005	0	0	0	6	17	8	100	200	NO	1	gear_trans_desired	524
																	2	~~gear_trans_ratio~~	~~0~~
																	4	gear_trans_actual	523
																	5	~~gear_trans_range_d~~	~~0~~
																	7	~~gear_trans_range_a~~	~~0~~
GCP, 4G	EC	Engine Configuration Supported Bytes: 1-17, 20-21, 22-23, 24, 25, 26, 27, 28	J1939-71	254	227	65251	0xFEE3	255	0	0	6	DEFAULT	8	5000	0	TxBroad ONLY	1	FILLER	0
																	3	FILLER	0
																	4	FILLER	0
																	6	FILLER	0
																	7	FILLER	0
GCP, 4G	DASH	Dash Display	J1939-71	254	252	65276	0xFEFC	255	0	0	6	DEFAULT	8	1000	2200	NO	1	~~level_washer~~	~~0~~
																	2	level_fuel	96
																	3	dpress_fuel_filt	0
																	4	dpress_oil_filt	0
																	5	temp_cargo	0
																	7	NOT_DEFINED	0
GCP, 4G	NMEA_FLUID_LEVEL	NMEA - Fluid/tank level	NMEA 2000	242	17	61969	0xF211	255	0	1	6	DEFAULT	8	2500	6000	NO	1	~~NMEA_level_fuel0~~	~~0~~
																	2	NMEA_level_fuel	65347
																	4	~~NMEA_capacity_tank~~	~~0~~
																	8	~~NOT_DEFINED~~	~~0~~
GCP, 4G	DM6	Pending DTCs (emissions related only)	J1939-73, 5.7.6	254	207	65231	0xFECF	255	0	0	6	DEFAULT	8	1000	0	YES	1	lamp_stat	1213
																	2	~~NOT_DEFINED~~	~~0~~
																	3	~~DTC_none~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 4G	DM12	Active DTCs (emissions related only)	J1939-73, 5.7.12	254	212	65236	0xFED4	255	0	0	6	DEFAULT	8	1000	0	YES	1	lamp_stat	1213
																	2	~~NOT_DEFINED~~	~~0~~
																	3	~~DTC_none~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 4G	DM23	Historic DTCs (emissions related only)	J1939-73, 5.7.23	253	181	64949	0xFDB5	255	0	0	6	DEFAULT	8	1000	0	YES	1	lamp_stat	1213
																	2	~~NOT_DEFINED~~	~~0~~

PGN (group) configuration

NOTES

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3) Total number of PGNs broadcast continuously and received by ECU must be≤ 23 on GCP (PGNs with PDU-F <240 do not count against total), ≤ 12 LCI platforms, and ≤ 10 on 56-way.
4) Bytes (SPNs) not supported within a parameter group are identified with ~~strikethrough~~
5) Proprietary PGNs are identified in *italics*
6) PGNs identified below are supported in ECI ECMs in part or in full. PGNs not found on the list are not presently supported.
7) The ECI Dec PGN is the PGN that is meant to be populated into the engine calibration but it may not correspond to the actual decimal PGN on the network. For PDU-F of 239 messages on the network are SA and DA specific with a PGN of 61184
8) PGNs with 'Source Address'= DEFAULT or 0 are for Broadcast, 'Source Address'= Numeric value is for Rx only.

Platform Supported	Group Acronym	Group Description	Reference	PDU-F	PDU-S	ECI Dec PGN	ECI Hex PGN	Dest Addr	Rsrvd Bit	Data Page	Priority	Source Address	Size	Tx Interval (ms)	Rx Timeout (ms)	Inherent Tx/Rx Support	Byte	Parameter Name	SPN
																	3	~~DTC_none~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 4G	DM27	Pending DTCs	J1939-73, 5.7.27	253	130	64898	0xFD82	255	0	0	6	DEFAULT	8	1000	0	YES	1	lamp_stat	1213
																	2	~~DTC_none~~	~~0~~
																	3	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 4G	O2FT1	Engine exhaust bank 1 O2 fuel trim	J1939-71	253	73	64841	0xFD49	255	0	0	6	DEFAULT	8	500	1000	NO	1	pct_ABM1	4237
																	3	pct_CLBM1	4236
																	5	stat_CL1	4240
																	6	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 4G	O2FT2	Engine exhaust bank 2 O2 fuel trim	J1939-71	253	72	64840	0xFD48	255	0	0	6	DEFAULT	8	500	1000	NO	1	pct_ABM2	4239
																	3	pct_CLBM2	4238
																	5	stat_CL2	4241
																	6	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
GCP, 4G	AT1IG1	Aftertreatment 1 intake gas 1	J1939-71	240	14	61454	0xF00E	255	0	0	6	DEFAULT	8	50	100	NO	1	~~FILLER~~	~~0~~
																	3	O2_pre1	3217
																	5	~~FILLER~~	~~0~~
																	7	~~FILLER~~	~~0~~
GCP, 4G	AT1OG1	Aftertreatment 1 outlet gas 1	J1939-71	240	15	61455	0xF00F	255	0	0	6	DEFAULT	8	50	100	NO	1	~~FILLER~~	~~0~~
																	3	O2_pst1	3227
																	5	~~FILLER~~	~~0~~
																	7	~~FILLER~~	~~0~~
GCP, 4G	AT2IG1	Aftertreatment 2 inlet gas 1	J1939-71	240	16	61456	0xF010	255	0	0	6	DEFAULT	8	50	100	NO	1	~~FILLER~~	~~0~~
																	3	O2_pre2	3256
																	5	~~FILLER~~	~~0~~
																	7	~~FILLER~~	~~0~~
GCP, 4G	AT2OG1	Aftertreatment 2 outlet gas 1	J1939-71	240	17	61457	0xF011	255	0	0	6	DEFAULT	8	50	100	NO	1	~~FILLER~~	~~0~~
																	3	O2_pst2	3266
																	5	~~FILLER~~	~~0~~
																	7	~~FILLER~~	~~0~~
GCP, 4G	TFAC	Engine throttle / fuel actuator control command	J1939-71	240	26	61466	0xF01A	255	0	0	4	DEFAULT	8	50	100	NO	1	cmd_TPS	3464
																	3	~~FILLER~~	~~0~~
																	5	~~FILLER~~	~~0~~
																	7	~~FILLER~~	~~0~~
GCP, 4G	AMB	Ambient conditions	J1939-71	254	245	65269	0xFEF5	255	0	0	6	DEFAULT	8	1000	2000	NO	1	press_baro	108
																	2	~~FILLER~~	~~0~~
																	4	~~FILLER~~	~~0~~
																	6	temp_AAT	172
																	7	~~FILLER~~	~~0~~
GCP, 56-way, 4G	CCVS	Cruise-control / Vehicle-speed	J1939-71	254	241	65265	0xFEF1	255	0	0	6	DEFAULT	8	100	220	NO	1	~~CCVS_aux_sw1~~	~~0~~
																	2	speed_vehicle	84
																	4	CCVS_state_sw1	595
																	5	~~CCVS_buttons_sw~~	~~0~~
																	6	speed_veh_setpt	86
																	7	CCVS_state_sw2	527
																	8	~~CCVS_aux_sw2~~	~~0~~
GCP, 4G	*BLST_LEVEL*	*Ballast tank level voltage*	ECI Custom	255	219	65499	0xFFDB	255	0	1	6	DEFAULT	8	1000	2000	NO	1	BLST_port_stern	65306
																	3	BLST_stbd_stern	65305
																	5	BLST_cntr_stern	65304
																	7	BLST_cntr_head	65303
GCP, 4G	RESET	Reset request to ECM (requires acknowledgement response)	J1939-71	222	238	57070	0xDEEE	DEFAULT	0	0	7	238	8	0	0	NO	1	trip_reset	988
																	2	~~service_comp_id~~	~~0~~
																	3	~~build_hours_reset~~	~~0~~
																	4	~~NOT_DEFINED~~	~~0~~
																	6	~~NOT_DEFINED~~	~~0~~
																	8	~~NOT_DEFINED~~	~~0~~
GCP, 4G	RESET_ACK	Reset to ECM acknowledgement response	J1939-71	232	238	59630	0xE8EE	238	0	0	6	DEFAULT	8	0	0	NO	1	positive_ACK	0
																	2	group_func_value	0
																	3	~~NOT_DEFINED~~	~~0~~
																	5	address_acknowledged	0
																	6	PGN_LSB	0
																	7	PGN_middle	0
																	8	PGN_MSB	0
GCP, 4G	*BLST_LEVEL*	*Ballast tank level voltage*	ECI Custom	255	219	65499	0xFFDB	255	0	1	6	DEFAULT	8	1000	2000	NO	1	BLST_port_stern	65306
																	3	BLST_stbd_stern	65305
																	5	BLST_cntr_stern	65304
																	7	BLST_cntr_head	65303
4G	TRF1	Transmission Fluids I	J1939-71	254	248	65272	0xFEF8	255	0	0	6	DEFAULT	8	1000	2000	NO	1	~~clutch_pressure~~	~~0~~
																	2	~~trans_oil_level~~	~~0~~
																	3	~~trans_filter_dpress~~	~~0~~
																	4	~~trans_oil_press~~	~~0~~
																	5	trans_oil_temp	177
																	7	~~trans_oil_level_hilc~~	~~0~~
																	8	~~trans_oil_level_stat~~	~~0~~
4G	TSC1_ABSRx	Torque/Speed Control #1 - ABS/ASR, EBS Rx of command	J1939-71	0	11	11	0x000B	0	0	0	3	11	8	10	30	NO	1	tsc_control_ABS	695
																	2	speed_eng_req_ABS	898
																	4	torq_eng_req_ABS	518
																	5	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
4G	ERC1_ER	Electronic retarder controller 1 - Engine retarder in ECU	J1939-71	240	0	61440	0xF000	15	0	0	6	DEFAULT	8	100	200	NO	1	er_mode	900
																	2	er_act_torque	520
																	3	er_des_torque	1085

PGN (group) configuration

NOTES

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Platform Supported	Group Acronym	Group Description	Reference	PDU-F	PDU-S	ECI Dec PGN	ECI Hex PGN	Dest Addr	Rsrvd Bit	Data Page	Priority	Source Address	Size	Tx Interval (ms)	Rx Timeout (ms)	Inherent Tx/Rx Support	Byte	Parameter Name	SPN
																	4	er_status	0
																	5	er_source	1480
																	6	~~er_driver_torque~~	~~0~~
																	7	~~er_noneng_sel~~	~~0~~
																	8	er_max_torque	1717
4G	ERC1_EXR	Electronic retarder controller 1 - Exhaust retarder in ECU	J1939-71	240	0	61567	0xF07F	41	0	0	6	DEFAULT	8	100	200	NO	1	exr_mode	900
																	2	exr_act_torque	520
																	3	exr_des_torque	1085
																	4	exr_status	0
																	5	exr_source	1480
																	6	~~exr_driver_torque~~	~~0~~
																	7	~~exr_noneng_sel~~	~~0~~
																	8	exr_max_torque	1717
4G	PTO	Power Takeoff Information	J1939-71	254	240	65264	0xFEF0	255	0	0	6	DEFAULT	8	100	200	NO	1	~~pto_oil_temp~~	~~0~~
																	2	pto_eng_speed	186
																	4	pto_set_speed	187
																	6	pto_enable_sw	980
																	7	pto_gov_sw	984
																	8	~~pto_memory_sw~~	~~0~~
4G	CCSS	Cruise control / Vehicle Speed Setup	J1939-71	254	237	65261	0xFEED	255	0	0	6	DEFAULT	8	0	0	NO	1	max_veh_speed	74
																	2	cruise_high_speed	87
																	3	cruise_low_speed	88
																	4	~~NOT_DEFINED~~	~~0~~
																	6	~~NOT_DEFINED~~	~~0~~
																	8	~~NOT_DEFINED~~	~~0~~
4G	*MARINE_DASH*	*Marine dash control from SA 39 to ECM*	ECI Custom	239	39	61351	0xEFA7	DEFAULT	0	0	3	39	8	100	200	NO	1	marine_dash_req	65317
																	2	~~NOT_DEFINED~~	~~0~~
																	3	~~NOT_DEFINED~~	~~0~~
																	5	~~NOT_DEFINED~~	~~0~~
																	7	~~NOT_DEFINED~~	~~0~~
4G	*TRIMCTL_TO_ECM*	*Trim controller to ECM wake plate / trim request*	ECI Custom	255	221	65501	0xFFDD	DEFAULT	0	0	6	242	8	100	200	NO	1	trim_position_request	65282
																	2	~~trim_override_status~~	~~0~~
																	3	~~trim_tab1_position~~	~~0~~
																	5	~~trim_tab2_position~~	~~0~~
																	7	~~trim_wake_position~~	~~0~~
4G	*ECM_TO_TRIMCTL*	*ECM to trim controller wake plate / trim status*	ECI Custom	255	221	65502	0xFFDE	255	0	0	6	DEFAULT	8	100	200	NO	1	trim_position_status	65281
																	2	trim_override_status	65280
																	3	~~trim_tab1_position~~	~~0~~
																	5	~~trim_tab2_position~~	~~0~~
																	7	trim_wake_position	65277
4G	RESET_ACK	Reset to ECM acknowledgement response	J1939-71	232	238	59630	0xE8EE	238		0	6	DEFAULT	8	0	0	NO	1	positive_ACK	0
																	2	group_func_value	0
																	3	NOT_DEFINED	0
																	5	address_acknowledged	0
																	6	PGN_LSB	0
																	7	PGN_middle	0
																	8	PGN_MSB	0
4G	TSC1_steerRx	Torque/Speed Control #1 - steering controller Rx of command	J1939-71	0	19	19	0x0013	0		0	3	19	8	10	30	NO	1	tsc_control_steer	695
																	2	speed_eng_req_steer	898
																	4	torq_eng_req_steer	518
																	5	NOT_DEFINED	0
																	7	NOT_DEFINED	0