

CAN Protocol for GET RX1 CIV

CAN Speed: 1 Mbit/s

Byte Order: Intel (little Endian)

update 2015/09/23

DEVICE	TX Rate (Hz)	ID (HEX)	Message Start Byte	Message Start Bit	Message Name	Offset Value	Gain Value	Data Type S(signed) U(unsigned)	Unit	Start position (GET datalogger setup)	Message Length (bit)	Data Type S(signed) U(unsigned)	Description
ECU	200	102	2	0	IDX_LIMIT	0	1	S	idx	16	8	S	Limit Index
ECU	100	200	0	0	REVCNT	0	1	U	rev	0	16	U	Engine Revolution Counter
ECU	100	200	2	0	RPM	0	1	U	rpm	16	16	U	RPM on cycle
ECU	100	200	4	0	TPS	0	value/2	U	%	32	8	U	Throttle Position %
ECU	100	200	6	0	MAP	0	1	S	mbar	48	16	S	Manifold Air Pressure
ECU	100	202	0	0	INJ_TAB_TIME	0	value	U	us	0	16	U	BFUEL Injection Time value
ECU	100	202	2	0	INJ_RATIO	0	value/100	U	%	16	16	U	BOTTOM/TOP Injection RATIO
ECU	100	202	4	0	INJ_1_L	0	value	U	us	32	16	U	Total Injection Time Injector 1 or BOTTOM
ECU	100	202	6	0	INJ_2_H	0	value	U	us	48	16	U	Total Injection Time Injector 2 or TOP
ECU	100	204	2	0	IGN_TOT	0	value/10	S	deg	16	16	S	Total Ignition Advance
ECU	100	204	4	0	DWELL_TOT	0	value	U	us	32	16	U	Battery Voltage compensated DWELL TIME
ECU	100	204	6	0	OFFSET_DWELL	0	value	S	us	48	16	S	RPM compensated DWELL OFFSET
ECU	100	206	0	0	PHASE_LOW_TAB	0	value/10	U	deg	0	16	U	Injection Timing Injection 1/BOTTOM
ECU	100	206	2	0	PHASE_HIGH_TAB	0	value/10	U	deg	16	16	U	Injection Timing Injection 2/TOP
ECU	100	206	4	0	DTPS_P	0	value/2	S	%/dt	32	16	S	Opening Delta WTPS
ECU	100	206	6	0	DTPS_N	0	value/2	S	%/dt	48	16	S	Closing Delta WTPS
ECU	100	208	0	0	CINJ_DTPS_P	0	value/64	U	gain	0	8	U	Acceleration Injection Time Correction
ECU	100	208	1	0	CIGN_DTPS_P	-32	value/4	U	deg	8	8	U	Acceleration Ignition Correction
ECU	100	208	2	0	CPHASE_DTPS_P	-640	value*5	U	deg	16	8	U	Acceleration Injection Timing Correction
ECU	100	208	4	0	CINJ_DTPS_N	0	value/64	U	gain	32	8	U	Deceleration Injection Time Correction
ECU	100	208	5	0	CIGN_DTPS_N	-32	value/4	U	deg	40	8	U	Deceleration Ignition Correction
ECU	100	208	6	0	CPHASE_DTPS_N	-640	value*5	U	deg	48	8	U	Deceleration Injection Timing Correction
ECU	100	20A	0	0	DEC_INJ_P	0	1	U	rev	0	16	U	Injection Acceleration Decay
ECU	100	20A	2	0	DEC_IGN_P	0	1	U	rev	16	16	U	Ignition Acceleration Decay
ECU	100	20A	4	0	DEC_PHASE_P	0	1	U	rev	32	16	U	Injection Timing Acceleration Decay
ECU	100	20B	0	0	DEC_INJ_N	0	1	U	rev	0	16	U	Injection Deceleration Decay
ECU	100	20B	2	0	DEC_IGN_N	0	1	U	rev	16	16	U	Ignition Deceleration Decay
ECU	100	20B	4	0	DEC_PHASE_N	0	1	U	rev	32	16	U	Injection Timing Deceleration Decay
ECU	100	210	0	0	INJ_RATIO_LOW	0	value/100	U	%	0	16	U	BOTTOM Injection RATIO
ECU	100	210	2	0	INJ_RATIO_HIGH	0	value/100	U	%	16	16	U	TOP Injection RATIO
ECU	100	216	0	0	OFFSET_VBATT1	0	value/2	U	us	0	16	U	Bottom Injectors Dead Time Compensation
ECU	100	216	2	0	OFFSET_VBATT2	0	value/2	U	us	16	16	U	Top Injectors Dead Time Compensation
ECU	100	218	6	0	K_INJ_EOL	0	value/128	U	gain	48	8	U	End Of Line Injection Correction
ECU	100	218	7	0	K_IGN_EOL	-32	value/4	U	deg	56	8	U	End Of Line Ignition Offset
ECU	100	21A	0	0	SPD1	0	value/100	U	km/h	0	16	U	Speed Reading from Speed Sensor 1
ECU	100	21A	2	0	SPD2	0	value/100	U	km/h	16	16	U	Speed Reading from Speed Sensor 2
ECU	100	300	0	0	LSTO1_AVG	0	value/100	U	STO	0	8	U	Averaged LAMBDA 1 value
ECU	100	300	1	0	LSTO1_RAW	0	value/100	U	STO	8	8	U	Raw LAMBDA 1 value
ECU	100	302	0	0	K_LSTO1	0	value/1000	U	idx	0	16	U	Lambda Closed Loop Correction 1
ECU	100	304	0	0	LSTO1_TARGET	0	value/100	U	STO	0	8	U	Closed Loop Lambda Target Value
ECU	100	304	2	0	K_INJ_TH20	0	value/64	U	idx	16	8	U	Injection Correction according to Engine Temperature
ECU	100	304	3	0	K_INJ_TAIR	0	value/128	U	idx	24	8	U	Injection Correction according to Air Temperature

ECU	100	304	4	0	K_INJ_BARO	0	value/128	U	idx	32	8	U	Injection Correction according to Barometric Pressure
ECU	100	304	5	0	K_IGN_TH20	-32	value/4	U	deg	40	8	U	Ignition Correction according to Engine Temperature
ECU	100	304	6	0	K_IGN_TAIR	-32	value/4	U	deg	48	8	U	Ignition Correction according to Air Temperature
ECU	100	304	7	0	K_IGN_BARO	-32	value/4	U	deg	56	8	U	Ignition Correction according to Barometric Pressure
ECU	100	310	0	0	TH20	-40	1	U	°C	0	8	U	Engine Temperature
ECU	100	310	1	0	TAIR	-40	1	U	°C	8	8	U	Air Temperature
ECU	100	310	3	0	VBB1	0	value*0.0705	U	V	24	8	U	KL15 Battery Voltage
ECU	100	310	4	0	VBB2	0	value*0.0705	U	V	32	8	U	KL30 Battery Voltage
ECU	100	310	6	0	BARO	0	1	S	mbar	48	16	S	Barometric Pressure
ECU	100	312	0	0	CUT_MUTE_CNT	0	1	U	ms	0	16	U	GearShift Time (Cut + Mute)
ECU	100	312	2	0	GEAR_AD	0	1	U	bit	16	8	U	Gear Position Sensor Analog RAW Value
ECU	100	312	3	0	GEAR_POS	0	1	U	idx	24	8	U	Gear Position Index (1-0-2-3-4-5-6 7=undetermined)
ECU	100	312	5	0	DRIVE_MODE or ACTIVE_MAP	0	1	U	idx	40	8	U	Active Map or Driving Mode

LC1	100	400	0	0	LC1_LAMBDA_F	0	value/1000	U	STO	0	16	U	Averaged LAMBDA value
LC1	100	400	2	0	LC1_LAMBDA_R	0	value/1000	U	STO	16	16	U	Raw LAMBDA value
LC1	100	400	4	0	LC1_LAMBDA_T	0	value/10	U	°C	32	16	U	Probe Temperature
LC1	100	400	6	0	LC1_VBB	0	value*0.0705	U	V	48	8	U	LC1 system voltage
LC1	100	400	7	0	FREE_1	0	1	U		56	8	U	LIBERO