

# ELM327 Programmable Parameters

*Ordered by the version in which the Programmable Parameter first appeared.*

<b>version</b>	<b>PP</b>	<b>Description</b>
1.0	-	none
1.0a	-	none
1.1	01	Printing of header bytes (AT H default setting)
	02	Allow long messages (AT AL default setting)
	03	NO DATA timeout time (AT ST default setting)
	09	Character echo (AT E default setting)
	0A	Linefeed Character
	0D	Carriage Return Character
	10	J1850 voltage settling time
	11	J1850 Break Signal monitor enable
	13	Auto search time delay between protocols 1 & 2
	16	Default ISO baud rate (AT IB default setting)
	17	ISO wakeup message rate (AT SW default setting)
	18	Auto search time delay between protocols 4 & 5
	24	CAN auto formatting (AT CAF default setting)
	25	CAN auto flow control (AT CFC default setting)
	26	CAN filler byte (used to pad out messages)
	29	Printing of the CAN data length (DLC) default setting
1.2	00	Perform AT MA after powerup or reset
	04	Default Adaptive Timing mode (AT AT setting)
	06	OBD Source (Tester) Address
	07	Last Protocol to try during automatic searches
	0C	RS232 baud rate divisor when pin 6 = 5 volts
	2B	Protocol A (SAE J1939) CAN baud rate divisor
	2C	Protocol B (USER1) CAN options
	2D	Protocol B (USER1) CAN baud rate divisor
	2E	Protocol C (USER2) CAN options
	2F	Protocol C (USER2) CAN baud rate divisor
1.2a	-	no changes
1.3	2A	CAN Error Checking

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<b>version</b>	<b>PP</b>	<b>Description</b>
1.3a	2A	b3, b4, b5 options added
1.4	0E	Power Control Options
	12	J1850 Volts (pin 3) output polarity
	15	Minimum inter-message time for protocols 3 to 5
	19	Time delay after protocol 5 when searching
	2C	b4 option added
	2E	b4 option added
1.4b	21	Default CAN Silent Monitoring Setting
2.0	0C	modified to allow a wider range
	0F	Activity Monitor options
	14	ISO/KWP final stop bit width (provides P4 interbyte time)
	15	adjusted timing
	19	changed default value
	1A	Protocol 5 fast initiation active time (TiniL)
	1B	Protocol 5 fast initiation passive time (TiniH)
	1C	ISO/KWP outputs used for initiation
	1D	ISO/KWP P3 time (delay before sending requests)
2.1	13	default value changed
	18	default value and time multiplier change
	19	default value changed
	1E	ISO/KWP delay before initiation starts
	28	CAN Filter settings
	2A	b0, b1, b2 options added
2.2	19	default value changed from 31 to 4F
	1F	KWP length byte to include checksum or not
2.3	20	ISO/KWP 5 baud init min time before a sync byte may appear