

# ECU broadcast data list on RS232

## User Manual

V1.2

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Note:

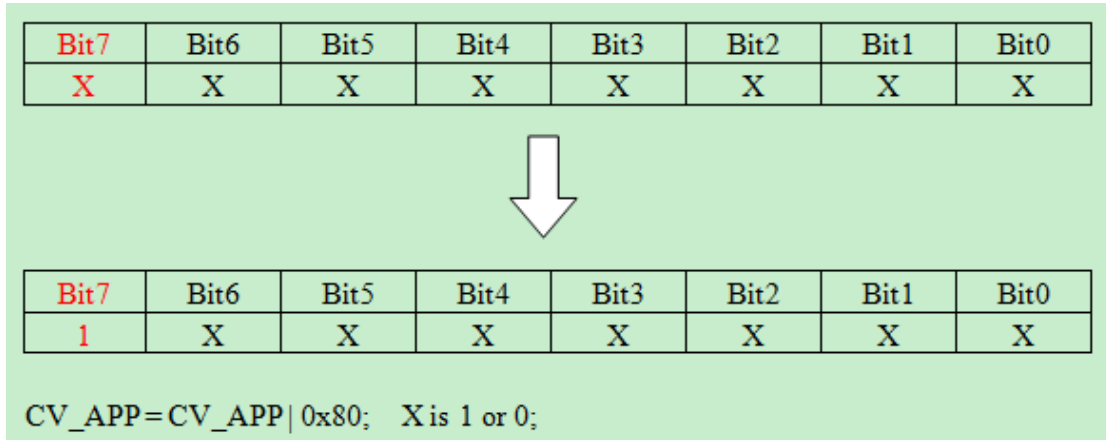
If you are not sure about any specific details, please  
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### Status of Document

Data	Version	Description of Modification	Author	Comment
10. 28. 2015	V1. 1			
02. 03. 2016	V1. 2			

## 1. How to enable the ECU to broadcast data from serial port?

- Run EcoCAL or ProCAL and connect to the ECU.
- Please tune the CV\_APP bit7 to be 1 and burn to ECU.



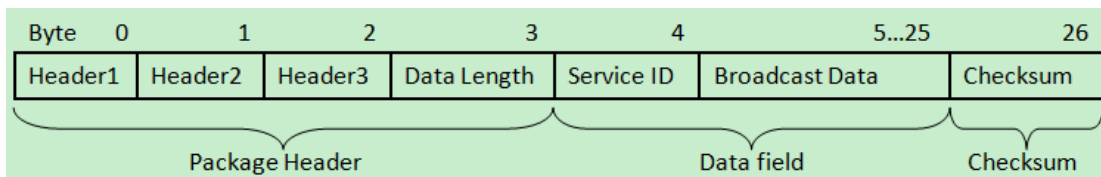
- Key-cycle the ECU(Power-off and the power-on), The ECU will broadcast the data in 100ms rate.

## 2. Data Broadcasting Information

- Structure of broadcast package:

Position	Type	Description
0	byte	Header1: 0x80
1	byte	Header2: 0x8F
2	byte	Header3: 0xEA
3	byte	Data field length:0x16
4	byte	Service ID: 0x50
5...25	bytes	Broadcast data.
26	byte	Checksum. Checksum = buff(0) + buff(1) + ...+ buff(25).

Byte map as follows:



➤ Structure of broadcast data:

Hardware:		RS232 Details			
		➤ Baud Rate :115200 ➤ Parity Bit: no ➤ Data Bits: 8 ➤ Stop Bit: 1 ➤ Rate: 100ms			
Name	Start Position[Byte]	Length[Byte]	Unit	Factor	Offset
RPM	6	2	Rpm	0.25	0
MAP	8	2	kPa	0.0039	0
TPS	10	2	%	0.0015	0
ECT	12	2	DegC	1	-40
IAT	14	2	DegC	1	-40
O2S	16	2	V	0.0048	0
SPARK	18	2	CrA	0.5	0
FUELPW1	20	2	ms	0.001	0
FUELPW2	22	2	ms	0.001	0
UbAdc	24	2	V	0.00625	0

Physical value of variables equals ((HightByte) \* 256 + LowByte) \* Factor + Offset. For example: RPM = (Buff[6] \* 256+Buff[7]) \*0.25+0.

Notes:

- The ECU will stop to broadcast when the EcoCAL or ProCAL connect to ECU.  
You need to key-cycle the ECU to start the broadcasting.