Universal CAN-log loader.
It was necessary due to variety of CAN-log formats recorded by different tools, not compatible with predefined parsers.

Now we have the new button
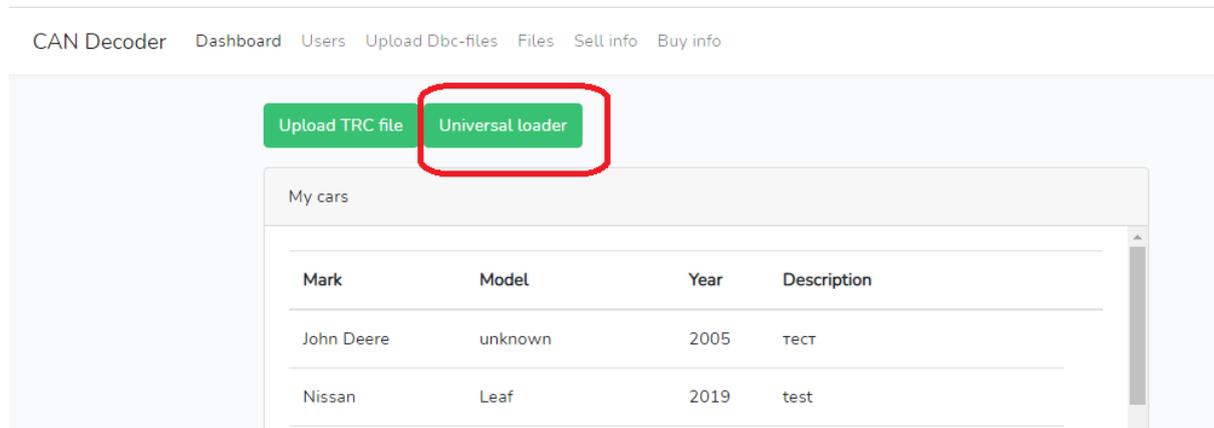
Now we can upload different user-defined CAN-log formats.

Choose the CAN log file. For example - this format was not supported before.

```
;$FILEVERSION=1.1
;$STARTTIME=24282.77352345225
;
;    C:\Users\AAA\Desktop\47\trace.trc
;
;    Start time: 26-03-21 18:33:52.858.x
;
;    Message Number
;    |            Time Offset (ms)
;    |            |            Type
;    |            |            |            ID (hex)
;    |            |            |            |      Data Length Code
;    |            |            |            |      |   Data Bytes (hex) ...
;    |            |            |            |      |   |
;---+--   ----+----   --+--   ----+---   +   -+ -- -- -- -- -- -- --
;
     1)        0.1   Rx    0C000000   8   29 00 19 7D 00 00 00 FF
     2)        8.2   Rx    0CF00400   8   FF FF 8C 03 19 FF FF FF
     3)        8.8   Rx    18FEC000   8   FD FF FF FF FF FF FF FF
     4)       10.1   Rx    0C000000   8   29 00 19 7D 00 00 00 FF
     5)       20.1   Rx    0C000000   8   29 00 19 7D 00 00 00 FF
     6)       24.6   Rx    18FE9600   8   FA FF FF FF FF FF FF FF
     7)       25.2   Rx    18FEF200   8   38 00 FF FF FF FF FF FF
     8)       25.8   Rx    0CF00400   8   FF FF 8C 08 19 FF FF FF
     9)       26.4   Rx    18FEC000   8   FD FF FF FF FF FF FF FF
    10)       27.0   Rx    18FEF000   8   FF FF FF FF FF FF FF FF
    11)       27.6   Rx    18FED900   8   FF FF FF FF FF FF FF FF
    12)       28.1   Rx    18F00100   8   FF FF FF FF FF FF FF FF
    13)       30.1   Rx    0C000000   8   29 00 19 7D 00 00 00 FF
    14)       38.4   Rx    0CF00400   8   FF FF 8C 08 19 FF FF FF
    15)       39.0   Rx    18FEC000   8   FD FF FF FF FF FF FF FF
```

Upload file - STEP 1

Choose any file with data from computer.

| Выберите файл | test log1.txt |

Upload

File have been uploaded for preview. Now we have to set the **Delimiter** symbol between data. In this case - it is just space. Set the Space in **Delimiters**. Also set the number of first string of data to skip the headers.

Specify separators and start line.

```
0   ;$FILEVERSION=1.1
1   ;$STARTTIME=24282.77352345225
2   ;
3   ; C:\Users\AAA\Desktop\47\trace.trc
4   ;
5   ; Start time: 26-03-21 18:33:52.858.x
6   ;
7   ; Message Number
8   ;| Time Offset (ms)
9   ;|| Type
10  ;||| ID (hex)
11  ;|||| Data Length Code
12  ;||||| Data Bytes (hex) ...
13  ;||||||
14  ;---+-- ----+---- --+-- ----+--- + -+ -- -- -- -- -- -- -- --
15   1) 0.1 Rx 0C000000 8 29 00 19 7D 00 00 00 FF
16   2) 8.2 Rx 0CF00400 8 FF FF 8C 03 19 FF FF FF
17   3) 8.8 Rx 18FEC000 8 FD FF FF FF FF FF FF FF
18   4) 10.1 Rx 0C000000 8 29 00 19 7D 00 00 00 FF
19   5) 20.1 Rx 0C000000 8 29 00 19 7D 00 00 00 FF
20   6) 24.6 Rx 18FE9600 8 FA FF FF FF FF FF FF FF
21   7) 25.2 Rx 18FEF200 8 38 00 FF FF FF FF FF FF
22   8) 25.8 Rx 0CF00400 8 FF FF 8C 08 19 FF FF FF
23   9) 26.4 Rx 18FEC000 8 FD FF FF FF FF FF FF FF
24  10) 27.0 Rx 18FEF000 8 FF FF FF FF FF FF FF FF
25  11) 27.6 Rx 18FED900 8 FF FF FF FF FF FF FF FF
```

| Start From Line | 15 |
| Delimeters | |

Send

When everything is okay we see on the next screen the data divided by columns.

0	1	2	3	4		5	6	7	8	9	10	11	12	13	14
	1)	0.1	Rx	0C000000		8	29	00	19	7D	00	00	00	FF	

◉ Column Time ○ Time Step

Column Time	0
Time Delimeter	
Column Id	1
Column DLC	2
Column Data	3-8

Send

We can use these options for CAN log analysis:

 Column time ON - means that we use CAN messages timestamp from the log file. And we set the number of time column in the **Column Time** box..

Time Delimiter - delimiter used in the CAN-log in timestamp. In our case it is a dot (.)

Column ID - number of column with CAN ID of the message.

Column DLC - number of column with the length of the message. (if no value set - loader will parse all Column data till the end).

Column Data - range of columns with data.

In our case:

Upload file - STEP 3

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1)	0.1	Rx	0C000000	8	29	00	19	7D	00	00	00	FF	

◉ Column Time   ○ Time Step

Column Time	2
Time Delimeter	.
Column Id	4
Column DLC	5
Column Data	6-13

[Send]

Click Send. Checking the result if everything is OK:

Upload file - STEP 4

TIME	ID	DLC	DATA
1	0C000000	8	2900197D000000FF
8002	0CF00400	8	FFFF8C0319FFFFFF
8008	18FEC000	8	FDFFFFFFFFFFFFFF
10001	0C000000	8	2900197D000000FF
20001	0C000000	8	2900197D000000FF
24006	18FE9600	8	FAFFFFFFFFFFFFFF
25002	18FEF200	8	3800FFFFFFFFFFFF
25008	0CF00400	8	FFFF8C0819FFFFFF
26004	18FEC000	8	FDFFFFFFFFFFFFFF
27000	18FEF000	8	FFFFFFFFFFFFFFFF
27006	18FED900	8	FFFFFFFFFFFFFFFF

Note, that time was converted in milliseconds. To change settings you can click BACK in browser.

Click Send and main page appears. File is already loaded and we can set the vehicle brand/model/year and choose the parser to decode the data.

If there are no timestamps in the CAN bus log file we can use **Time Step** option:

Upload file - STEP 3

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	1)	0.1	Rx	0C000000	8	29	00	19	7D	00	00	00	FF	

◯ Column Time   ⦿ Time Step

Time Step (ms)	0

Column Id	4

Column DLC	5

Column Data	6-13

Send

In this case we have to set **Time Step** in milliseconds and loader will assign all CAN messages using this auto-step.