OPTIMO², MKIII READ & MODIFY, TSG011C

Date 29/10/2021	**Initial release**	**By MBA**
Date 22/11/2021	**Rev B, update for .3961**	**By LAD**
Date 06/09/2022	**Rev C, update for 6.4**	**By MBA**

This user guide introduces the new user interface developed in the Optimo² SW version 6.2 MKIII Application for the *Read & Modify* functionality.

This refreshed design allows quicker and easier access to the desired parameter. It allows read capability of new parameters and some will also be writeable, depending on the SE5000 version the Optimo² is connected to. Consequently, the interface may return *write errors* if you try and write a new value into an old, read-only version of the Tachograph.

The list of parameters displayed will vary based on the tachograph you are connecting to; 1B, 1C, STONERIDGE, other brands, etc. This guide is based on the **CONNEKT Rev. G**, which features the highest number of parameters. Consequently, some parameters shown here may not be available if you connect to a 7.6 for instance.

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1 New MKIII Read & Modify

Upon selecting the *Read & Modify* functionality in the *MKIII Application*, you will now open a *Tile Menu* page. The first two tiles regroup all the parameters required for a bi-yearly inspection.

Loading a *Tile* will take a few seconds. This is the time required for the Optimo² to request each parameter value from the Tachograph.

Once in a *Tile*, you can navigate to the next one using the *top arrow*, or you can press the *Home button* to return to the *Tile Menu* and select another *Tile*. The *Tiles* are grouped from the most used to the least used. Again, for most day-to-day work, when performing a bi-yearly inspection, one will only use the first two *Tiles*.

We will cover each *Tile* in the subsequent paragraphs, with the following color coding:

Regular use parameters

Read-only parameters

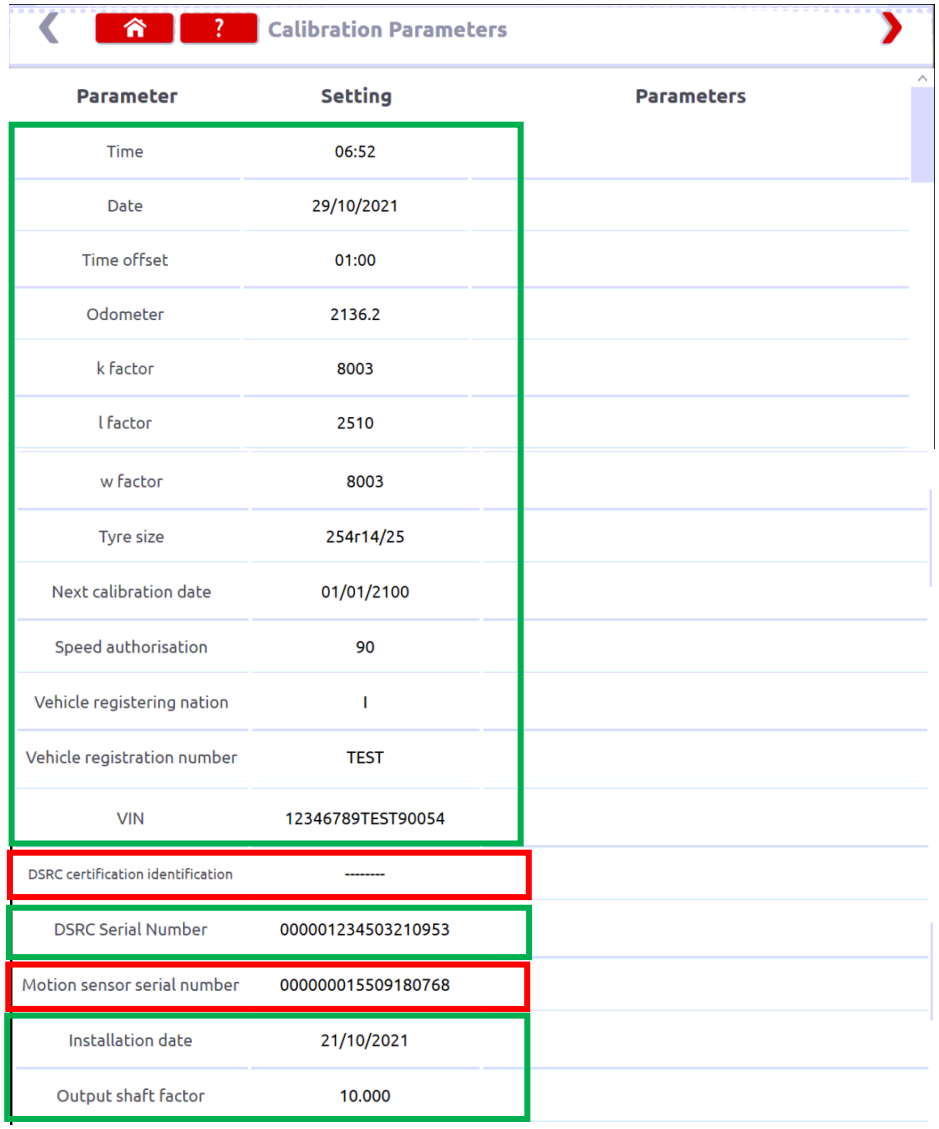
Engineering parameters

Most users would already be familiar with the *Regular use parameters*. Do not try to change the *Read-only parameters*, or the Optimo² may return a **x00FF** error. *Engineering parameters* must be modified only on *STONERIDGE Workshop support* directions. Note: some *Engineering parameters* may return a **x00FF** error on older CONNEKT versions, because they are Read & Write only with the Rev. G tachograph.

2 Calibration Parameters

The scroll bar gives you access to all parameters in the *Tile*.

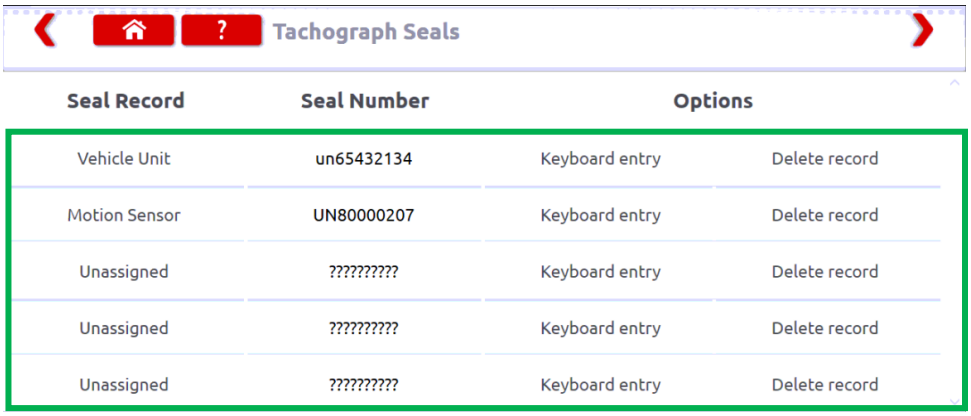
CAUTION: on the DELL Optimo², swiping your finger on any part of the screen will also scroll. This may lead you to modify parameters unwillingly, please use the scroll bar.



Card Support	Gen1 & Gen2	Gen1 & Gen2	Gen2 only
Repair shop code			
Programming date	06/07/2022		
Calibration date	06/07/2022		
Calibration equipment Software number	4014		

3 Tachograph Seals

This *Tile* will only be accessible on 1C tachographs.



4 CAN Parameters

Priority level of TCO1 message	3		
Priority level of tx USDT frames on C-CAN	7		
Min Time Between CFs Transmission On A-CAN	2		
Optional CAN Messages 1	MN transfer case message	Not defined	MN transfer case message

5 Driver Preferences

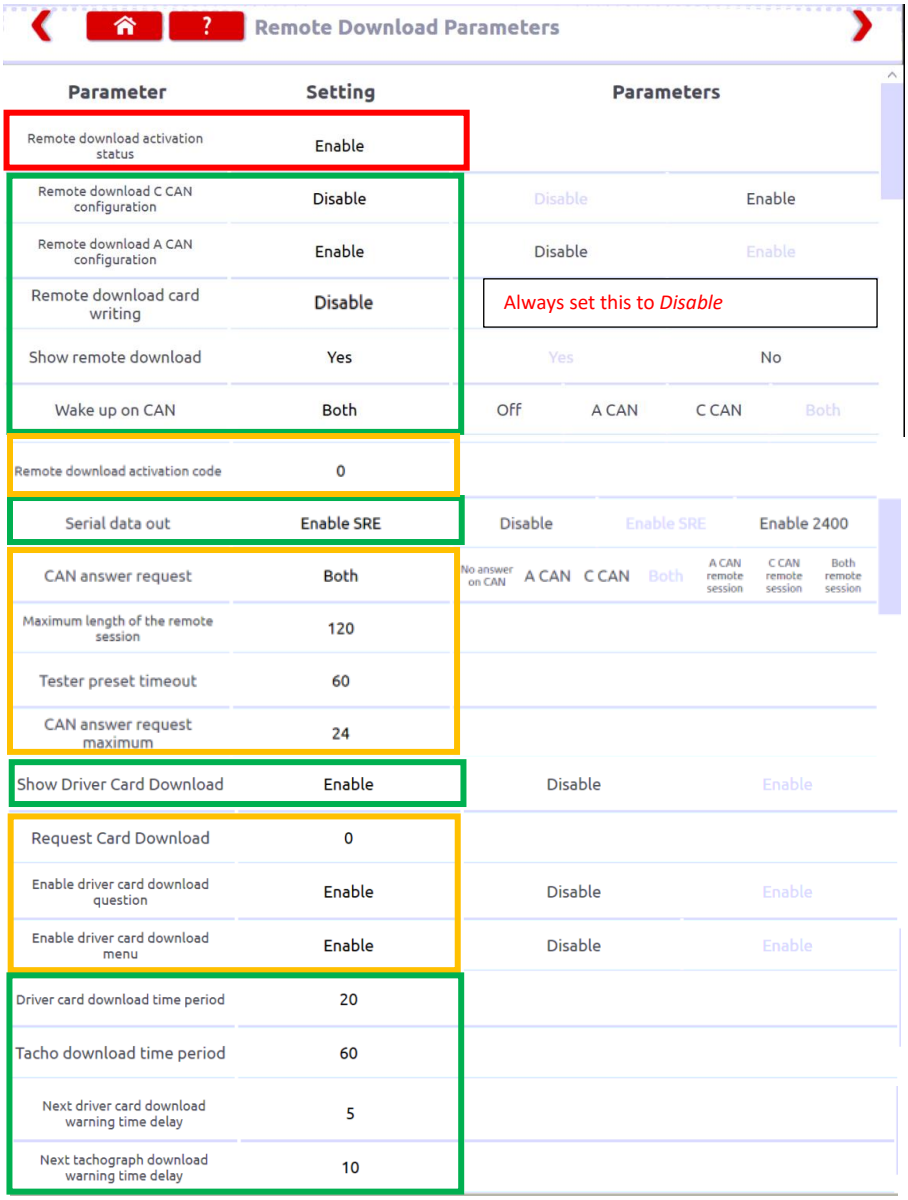
Driver Preferences

Parameter	Setting	Parameters	
DDS	On	Off	On
WTD	Off	Off	On
DDS warnings configuration	On	Off	On
DDS warnings	C39F		
Working time periods of availability	Disregard availability in working time calculations	Calculate availability as work in working time calculations	Disregard availability in working time calculations
Working time first minimum break	45 Minutes	15 Minutes	30 Minutes	45 Minutes
Periods of availability	Calculate availability as break in all non working time related calculations	Calculate availability as break in all non working time related calculations	Disregard availability in all non working time related calculations
Driver recognise	Vehicle motion not detected		
Tacho card slot 1	Workshop card		
Tacho card slot 2	No card		
Driver 1 Consent Status	Open Data		
Driver 2 Consent Status	Unknown		
Driver 1 preferred language	ÿÿ		
Driver 1 preferred language	ÿÿ		
Default language	en		
Centralized language	Enable	Disable	Enable

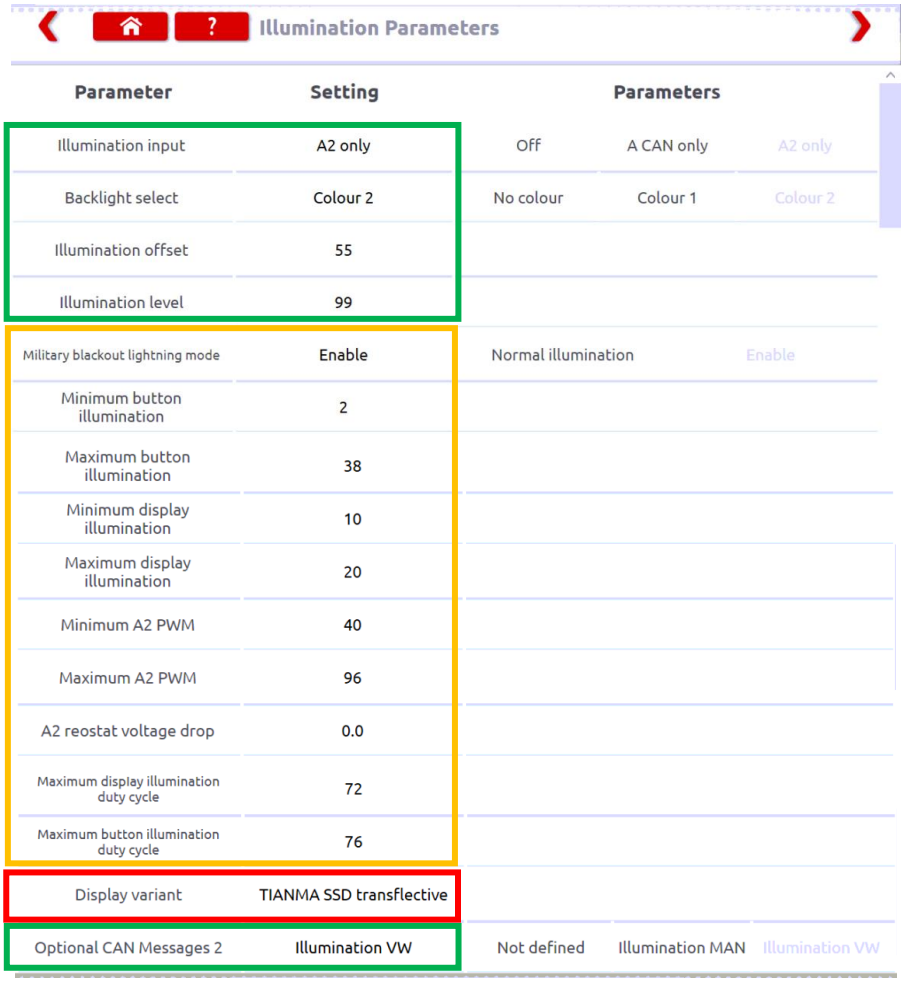
Activity change at key on/off	On	Off		On	
S1 on	Break or rest	Break or rest	Available	Work	No change
S2 on	Available	Break or rest	Available	Work	No change
S1 off	Available	Break or rest	Available	Work	No change
S2 off	No change	Break or rest	Available	Work	No change
Time Of Change	28.10.2021				
Pre overspeed warning time	7				
Pre next calibration date	58				
Next calibration warning time delay	58				
Auto Daylight Saving	Enabled	Disabled	Enabled	ALTA	
Adjust local minute offset	0				
Adjust local hour offset	1				
Out of scope	1B Interpretation	1B Interpretation	DDS interpretation		
Service delay	125				
Border Crossing Driver Assistance	Enable	Disable	Enable		
Lock in time	06/02/2030 00:50:40				
Card type	4				
Nation numeric	17				
Owner identification number	400000000355				
Card consecutive index	0				
Card replacement index	0				
Card renewal index	0				
Generation					

Company card details

6 Remote Download parameters



7 Illumination parameters



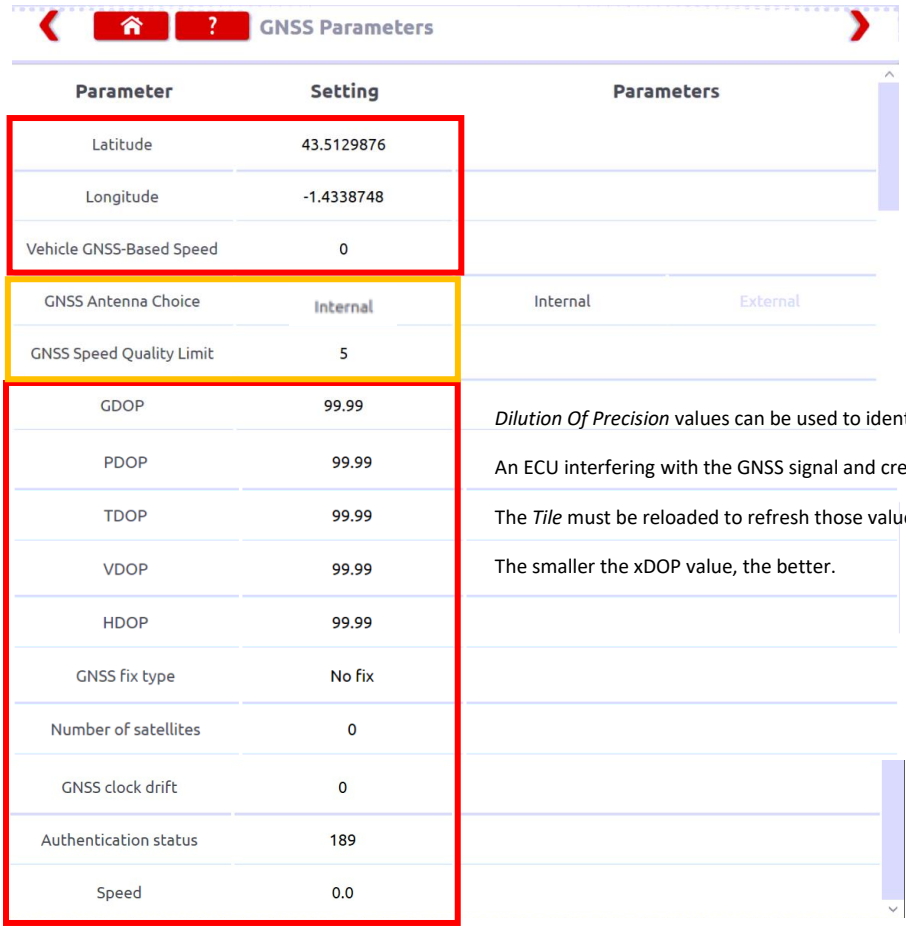
Illumination Parameters

Parameter	Setting	Parameters		
Illumination input	A2 only	Off	A CAN only	A2 only
Backlight select	Colour 2	No colour	Colour 1	Colour 2
Illumination offset	55			
Illumination level	99			
Military blackout lightning mode	Enable	Normal illumination		Enable
Minimum button illumination	2			
Maximum button illumination	38			
Minimum display illumination	10			
Maximum display illumination	20			
Minimum A2 PWM	40			
Maximum A2 PWM	96			
A2 reostat voltage drop	0.0			
Maximum display illumination duty cycle	72			
Maximum button illumination duty cycle	76			
Display variant	TIANMA SSD transflective			
Optional CAN Messages 2	Illumination VW	Not defined	Illumination MAN	Illumination VW

8 GNSS parameters

This *Tile* will only be accessible on STONERIDGE 1C tachographs.

On a CONNEKT Rev A tachograph only the first 5 parameters are available.



Dilution Of Precision values can be used to identify in the truck

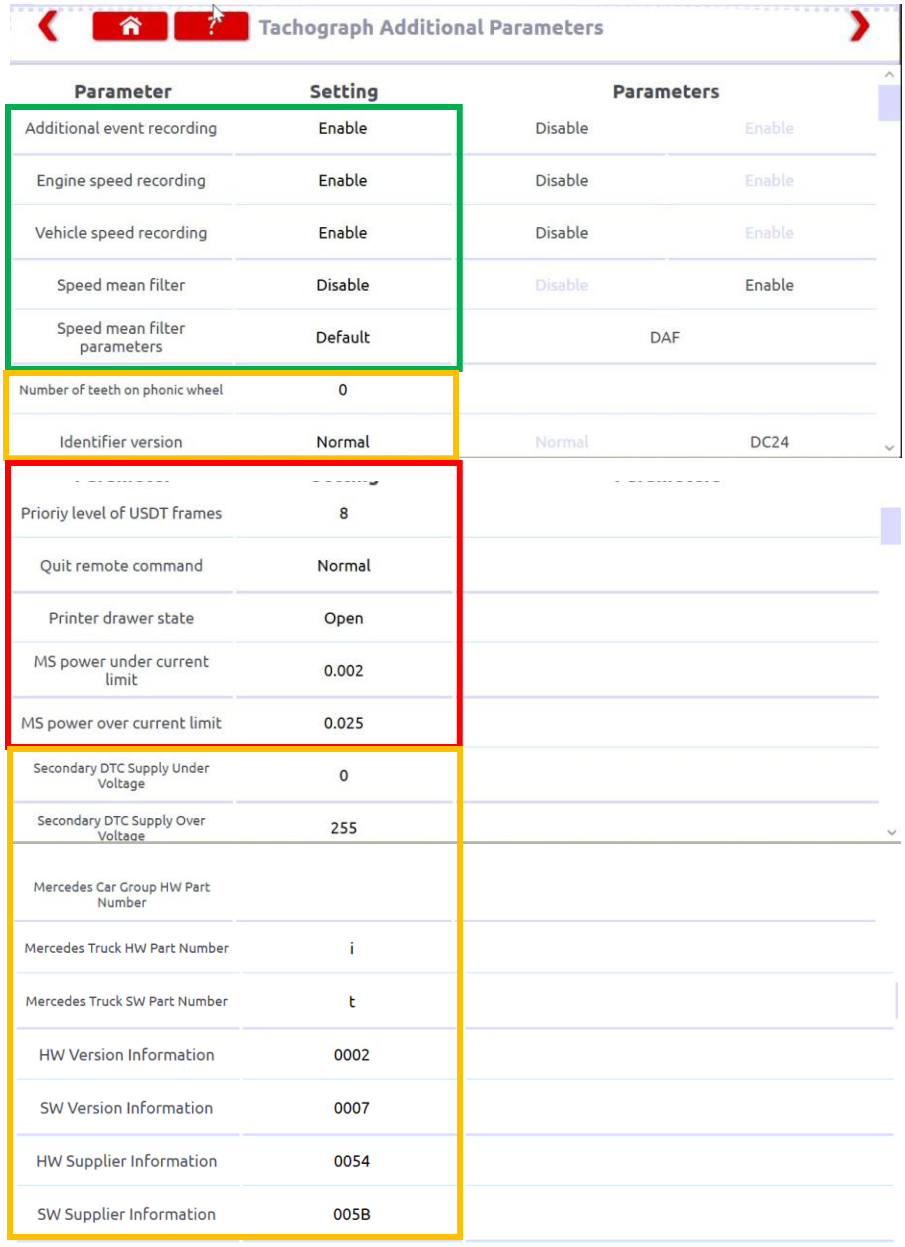
An ECU interfering with the GNSS signal and creating errors 0A, 0B, or 0D.

The *Tile* must be reloaded to refresh those values.

The smaller the xDOP value, the better.

9 Tachograph Additional parameters

This *Tile* groups rarely used parameters. There are some OEM specific values which may be required for a rev. G tachograph to improve OEM Diag Tool communication.

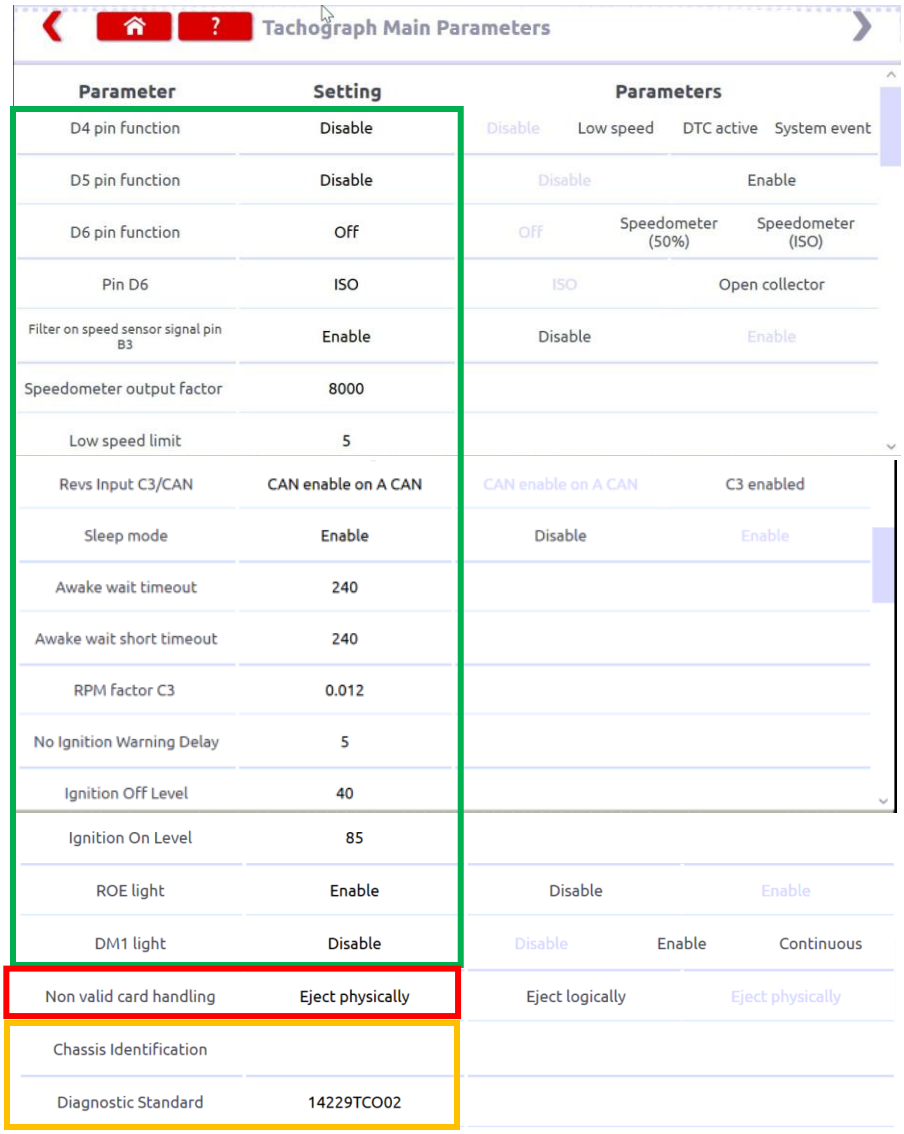


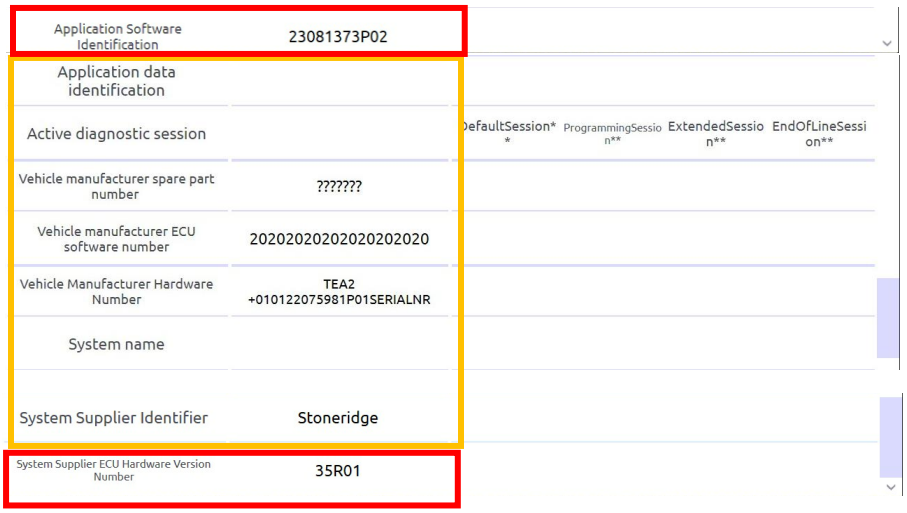
Subsystem Identification ID	00
Subsystem Identification Message	FC0A
ECU Supplier Number	5
ECU Production Test System Number	e
ASAM ODX File Identifier	4u
ASAM ODX File Version	t8
VW FAZIT Identification String	03.02.21
VW Supplier Number	0
VW ECU Hardware Version Number	9
VW Workshop System Name	19
VW data set number	6
VW data set version number	0
VRESD Range 1	600.000
VRESD Range 2	800.000
VRESD Range 3	1000.000
VRESD Range 4	1100.000
VRESD Range 5	1200.000
VRESD Range 6	1300.000
VRESD Range 7	1400.000
VRESD Range 8	1500.000
VRESD Range 9	1700.000
VRESD Range 10	1900.000
VRESD Range 11	2100.000
VRESD Range 12	2300.000
VRESD Range 13	2500.000
VRESD Range 14	2700.000
VRESD Range 15	3000.000

VRVSD Range 1	10
VRVSD Range 2	20
VRVSD Range 3	30
VRVSD Range 4	40
VRVSD Range 5	50
VRVSD Range 6	60
VRVSD Range 7	70
VRVSD Range 8	75
VRVSD Range 9	80
VRVSD Range 10	85
VRVSD Range 11	90
VRVSD Range 12	100
VRVSD Range 13	110
VRVSD Range 14	120
VRVSD Range 15	150

10 Tachograph Main parameters

This *Tile's* most important parameters are setting the D4/D5/D6 outputs, and the Ignition ON/OFF levels.




Application Software Identification
23081373P02
Application data identification
Active diagnostic session
DefaultSession**
ProgrammingSession**
ExtendedSession**
EndOfLineSession**
Vehicle manufacturer spare part number
???????
Vehicle manufacturer ECU software number
20202020202020202020
Vehicle Manufacturer Hardware Number
TEA2
+010122075981P01SERIALNR
System name
System Supplier Identifier
Stoneridge
System Supplier ECU Hardware Version Number
35R01