Commercial Vehicles

Request for CFCU-configuration

Important notes

- **The completed form must be sent to Config-CS@volkswagen.de in digital form via the button below.**
- Forms filled in by hand may not be sent. This also includes scanned forms.
- If verification of safety requirements is necessary for the configuration, please attach these to the email and name them in the "Attachment" field.
- The subject line of the email always begins with "CFCU" and can then be given another subject, separated by a long dash (e.g.: CFCU – configuration for an ambulance). This ensures that the order will be processed quickly.
- The initial configuration of a vehicle is free of charge.
- Please check if you made confirmation of the contract ***"Agreement for individual implementation of configuration for CFCU"*** by signing and sending it to Config-CS@volkswagen.de.
- The specifications shall be governed by the agreement ***"Agreement for individual implementation of configuration for CFCU"***
- ***When planning and commissioning a CFCU configuration, please observe the specifications / notes in the conversion guidelines. These can be found in the BB-Database.***

Send request

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Address data / company delivery address

Body builder/dealership	☒ Body builder ☐ Volkswagen Commercial Vehicles authorised workshop
Dealership number (if stating a dealership)	
Name of body builder/authorised workshop	
Contact	
Street/no.	
Post code/town	
E-Mail adress	
Telephone number	

Vehicle data

Vehicle identification number	
Vehicle type	
Mileage [km]	

Repeatability of configuration using an identical data record on other vehicles

Do you plan to apply the configuration file to other vehicles? ☐ Yes ☒ No

Notes

Repeatability of configuration using an identical data record on other vehicles

The configuration of a vehicle with an identical CFCU data record is only permitted if the vehicle has an identical PRNR scope to the initially requested and configured vehicle. If the PRNR scope is different from this originally configured vehicle, a check request with a description of the configuration and the different PRNR scope must be sent to Config-CS@volkswagen.de.

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Functional description

1. Body description (Briefly describe the type of body/modification):

2. Standard configuration

Required working speed	☐ Fixed (US1) ☐ Variable (US2) ☒ Not stated
Working speed range	Min. working speed[rpm]: Max. working speed [rpm]:
Engine remote stop/start Circuit (MFSS) required?	☐ Yes ☐ No ☒ Not stated **! MFSS is only avaiable for vechicles with rear drive and built in PTO!**
Control of CFCU via APP required?	☐ Yes ☐ No ☒ Not stated

If you require a fixed working speed, only enter the minimum speed in the speed range!

Specifications for fixed/variable working speed:

- min. 1.250 rpm (secured); min. 1.040 rpm (possible, speed can be overdriven)
- max. 3.900 rpm without power take-off system
- max. 3.000 rpm with power take-off system
- Switching signal/activation takes place via PIN C35, function lighting via PIN C21, PTO button via PIN C36, PTO response via PIN C23

MFSS pin assigned according to the list.

Only select activation of the CFCU via an app if you have commissioned or are going to commission the app from an external supplier!

Notes on items 3–4 on pages 4 & 5

If there is no preliminary selection of the inputs and outputs, they are specified by the manufacturer when configuring the CFCU. Note the load on each input and output when selecting the pin assignment. More information on the available basic vehicle signals and connection options for forming algorithms can be found in the technical customer documentation for the CFCU at www.umbauportal.de.

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3. CFCU pin assignment (Note: The plug assignment plan can be found on page 7.)

I) Outputs

Plug/pin	Signal	Pin designation	Required signal
ST3/1	MFA_15	Low-side output/300 Hz PWM, 0.5A	
ST3/2	MFA_16	Low-side output/300 Hz PWM, 0.5A	
ST3/3	MFA_13	Low-side output/5 kHz PWM, 1A	
ST3/4	REL_NO1	N/O relay / floating (working) contact	
ST3/5	REL_COM1	Relay / floating changeover contact	
ST3/6	REL_NC1	N/O relay / floating (NC) contact	
ST3/11	MFA_17	Low-side output/300 Hz PWM, 0.5A	
ST3/12	MFA_18	Low-side output/300 Hz PWM, 0.5A	
ST3/13	MFA_14	Low-side output/5 kHz PWM, 1A	
ST3/14	REL_NO2	N/O relay / floating (working) contact	
ST3/15	REL_COM2	Relay / floating changeover contact	
ST3/16	REL_NC2	N/O relay / floating (NC) contact	
ST3/21	MFA_11	High - side output / 300 Hz PWM/0.5A/T30_2	
ST3/22	MFA_12	High - side output / 300 Hz PWM/0.5A/T30_2	
ST3/31	MFA_9	High - side output / 300 Hz PWM/0.5A/T30_1	
ST3/32	MFA_10	High - side output / 300 Hz PWM/0.5A/T30_1	
ST2/1	MFA_7	High - side output / 5A/T30_2	
ST2/2	MFA_5	High - side output / 5A/T30_1	
ST2/3	MFA_6	High - side output / 5A/T30_1	
ST2/4	MFA_8	High - side output / 5A/T30_2	
ST2/5	MFA_4	High - side output / 10A/T30_2	
ST2/6	MFA_1	High - side output / 5A/T30_1	
ST2/7	MFA_3	High - side output / 5A/T30_2	
ST2/8	MFA_20	Half bridge2 output/ 5A/T30_1	
ST2/9	MFA_19	Half bridge1 output/ 5A/T30_1	
ST2/10	MFA_22	Half bridge2 output/ 5A/T30_2	
ST2/11	MFA_21	Half bridge1 output/ 5A/T30_2	
ST2/12	MFA_2	High - side output / 10A/T30_1	

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3. CFCU pin assignment

II) Inputs

Plug/pin	Signal	Pin designation	Required signal
ST3/7	MFE_17	High-side input / wake-up capability / digital	
ST3/8	MFE_19	High-side input / wake-up capability / digital	
ST3/9	MFE_21	High-side input / wake-up capability / digital	
ST3/10	MFE_23	High-side input / wake-up capability / digital	
ST3/17	MFE_18	High-side input / wake-up capability / digital	
ST3/18	MFE_20	High-side input / wake-up capability / digital	
ST3/19	MFE_22	High-side input / wake-up capability / digital	
ST3/20	MFE_24	High-side input / wake-up capability / digital	
ST3/23	MFE_9	Low-side input / wake-up capability / digital	
ST3/24	MFE_11	Low-side input / wake-up capability / digital	
ST3/25	MFE_13	Low-side input / wake-up capability / digital	
ST3/26	MFE_15	Low-side input / wake-up capability / digital	
ST3/27	MFE_1	Low-side input / wake-up capability / analogue	
ST3/28	MFE_3	Low-side input / wake-up capability / analogue	
ST3/29	MFE_5	Low-side input / wake-up capability / analogue	
ST3/30	MFE_7	Low-side input / wake-up capability / analogue	
ST3/33	MFE_10	Low-side input / wake-up capability / digital	
ST3/34	MFE_12	Low-side input / wake-up capability / digital	
ST3/35	MFE_14	Low-side input / wake-up capability / digital	
ST3/36	MFE_16	Low-side input / wake-up capability / digital	
ST3/37	MFE_2	Low-side input / wake-up capability / analogue	
ST3/38	MFE_4	Low-side input / wake-up capability / analogue	
ST3/39	MFE_6	Low-side input / wake-up capability / analogue	
ST3/40	MFE_8	Low-side input / wake-up capability / analogue	

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4. Free coding

Please send a precise functional description, if necessary with function plan, as an attachment.

If you have formulated the free coding separately, you can also add it to the attachment and put a link to it here.

5. Attachment for attention

List below all attachments you want to e-mail us with this order form. E.g.: function plan, logical links, any necessary safety requirements.

Attachment 1
Attachment 2
Attachment 3
Attachment 4
Attachment 5
Attachment 6
Attachment 7

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CFCU pin assignment plan