

How to upgrade the motor version

Introduction

For some motors, which the electric steering wheel turns in one direction continuously during automatic driving, we propose the solution to upgrade motor firmware.

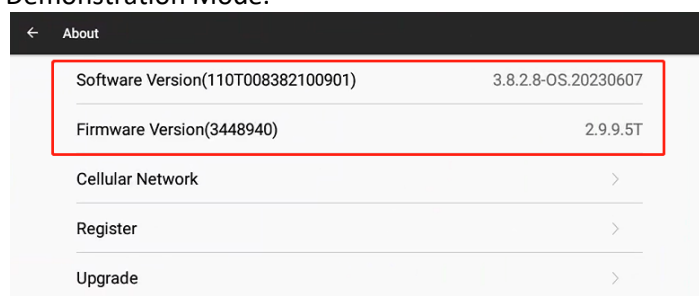
Note

The solution only supports software version 3.8.2.8-OS.20230607 and above.

The solution only supports firmware version 2.9.9.5T and above.

The solution only supports motor version CES-T 5.1(PN:4006020035).

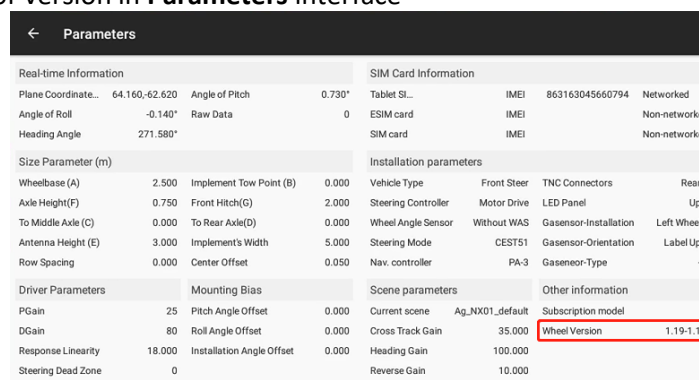
Do not operate in Demonstration Mode.



Download link: https://chcnavigation.jianguoyun.com/p/DSRP5WgQtq_UCxjx8ZgFIAA

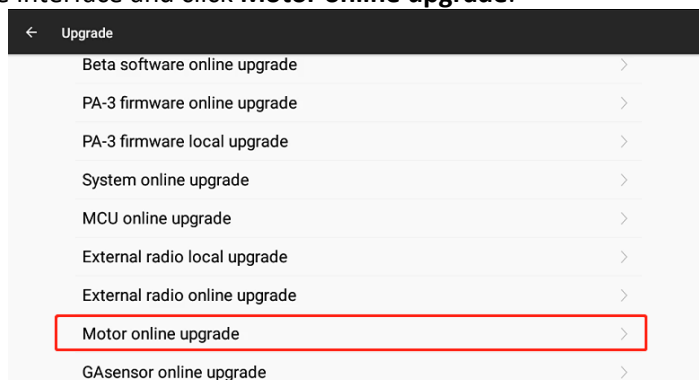
Upgrade

1. Check the motor version in **Parameters** interface

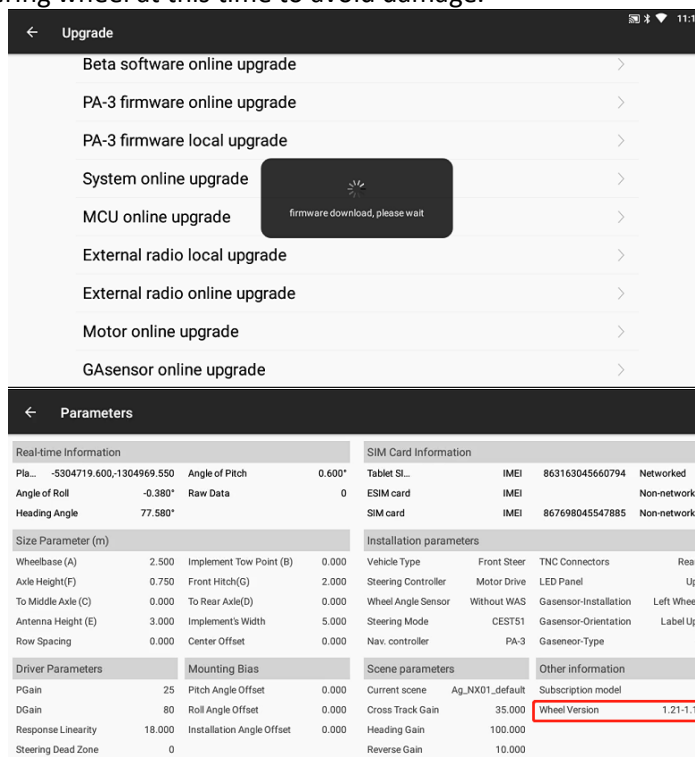


2. Firmware online upgrade

a) Enter Upgrade interface and click **Motor online upgrade**.

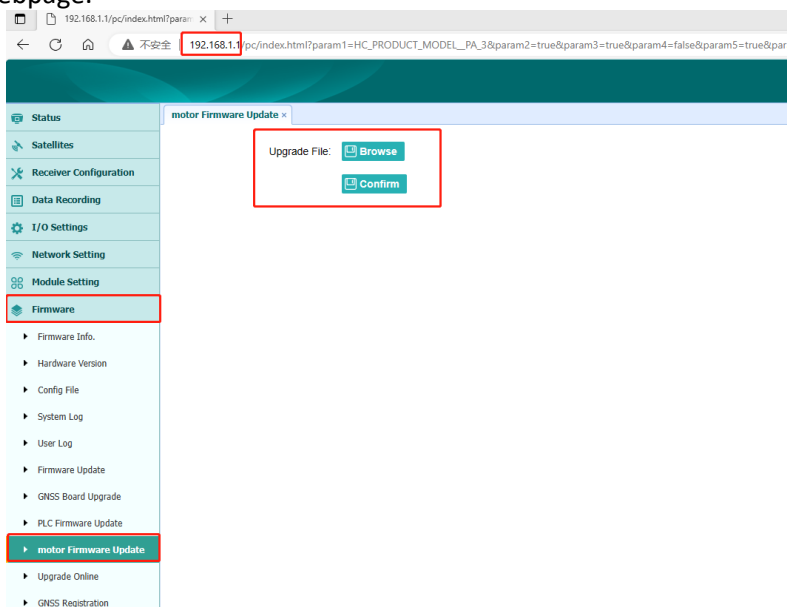


- b) The firmware will be upgraded automatically, wait around 5 minutes and please do not touch the steering wheel at this time to avoid damage.



3. Firmware webpage upgrade

- a) Connect to receiver's WiFi named 'GNSS-XXXXXXX'.
- b) Open Google browser and enter **192.168.1.1**, then go to **Firmware-motor Firmware Update**. If there is no motor firmware update module, try clearing the browser cache and re-entering the receiver webpage.





c) Select the firmware file and click Confirm.

motor Firmware Update x

Upgrade File: update_CEST51_v1.1.21_b20230517.bin

d) Wait around 5 min to finish the update.

← Parameters

Real-time Information				SIM Card Information			
Pla...	-5304719.600,-1304969.550	Angle of Pitch	0.600°	Tablet SL...	IMEI	863163045660794	Networked
Angle of Roll	-0.380°	Raw Data	0	ESIM card	IMEI		Non-networke
Heading Angle	77.580°			SIM card	IMEI	867698045547885	Non-networke
Size Parameter (m)				Installation parameters			
Wheelbase (A)	2.500	Implement Tow Point (B)	0.000	Vehicle Type	Front Steer	TNC Connectors	Rear
Axle Height(F)	0.750	Front Hitch(G)	2.000	Steering Controller	Motor Drive	LED Panel	Up
To Middle Axle (C)	0.000	To Rear Axle(D)	0.000	Wheel Angle Sensor	Without WAS	Gasensor-Installation	Left Wheel
Antenna Height (E)	3.000	Implement's Width	5.000	Steering Mode	CEST51	Gasensor-Orientation	Label Up
Row Spacing	0.000	Center Offset	0.000	Nav. controller	PA-3	Gasensor-Type	-
Driver Parameters		Mounting Bias		Scene parameters		Other information	
PGain	25	Pitch Angle Offset	0.000	Current scene	Ag_NX01_default	Subscription model	
DGain	80	Roll Angle Offset	0.000	Cross Track Gain	35.000	Wheel Version	1.21-1.1
Response Linearity	18.000	Installation Angle Offset	0.000	Heading Gain	100.000		
Steering Dead Zone	0			Reverse Gain	10.000		



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