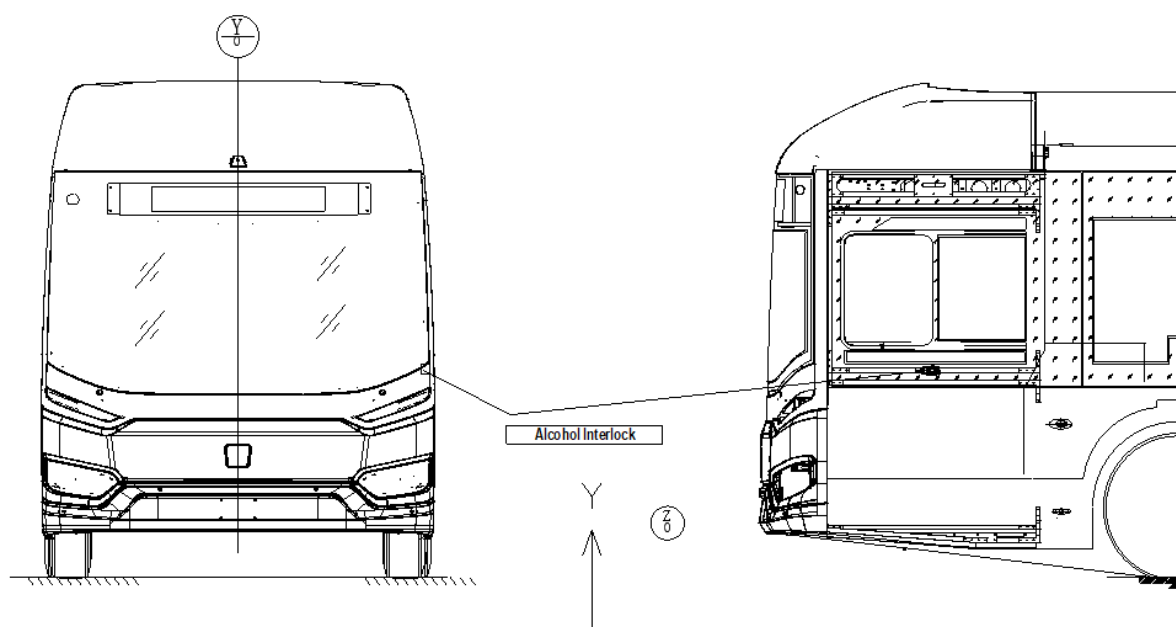


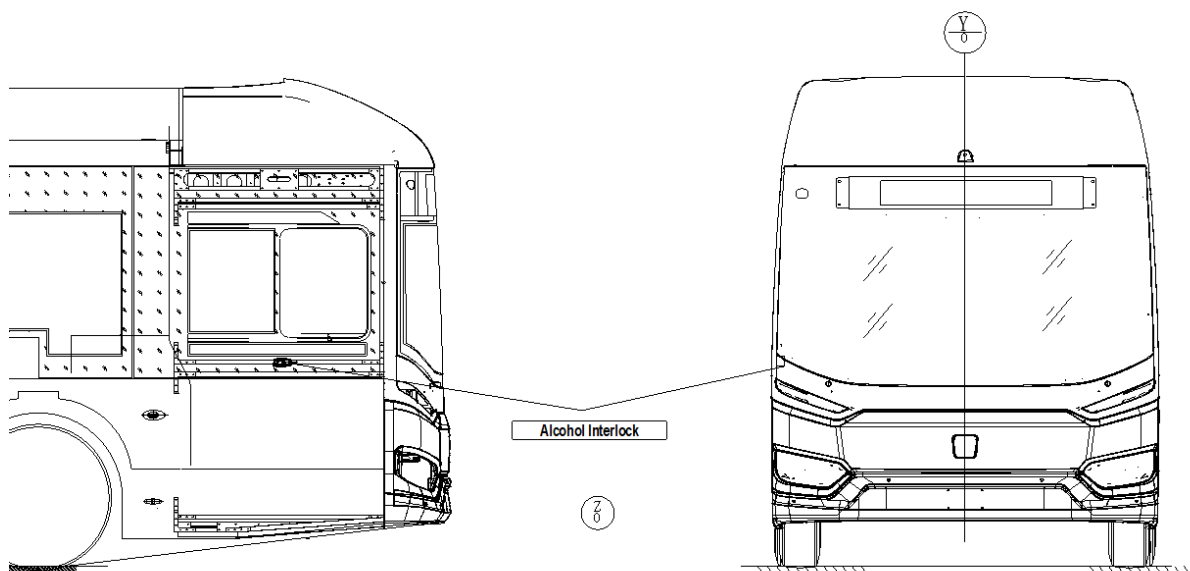
alcohol interlock installation document

1. Variant of the vehicles

Variant 1 & Variant 2



Variant 3



2. General information of the interlock

Brand: AlcoStop

Model: A3

Manufacturer:JUSTEC SHENZHEN CO.,LTD



3. Product components

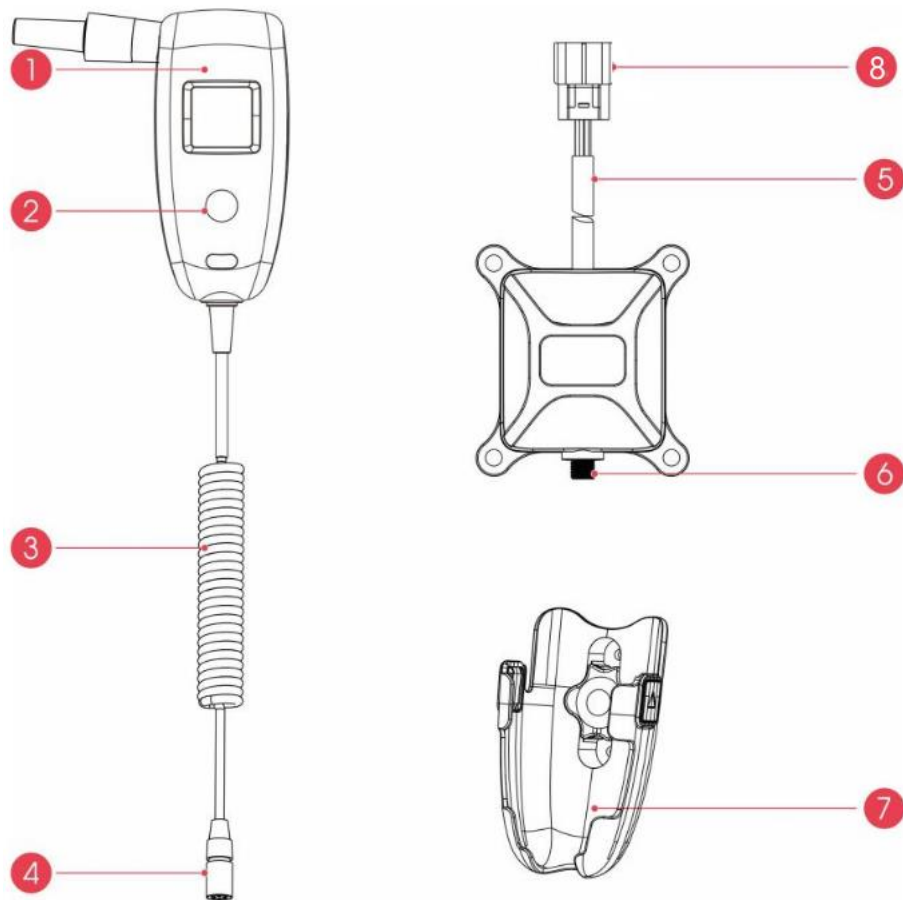


Table 1 Product components

No.	Component	No.	Component
1	Handset unit	5	Control unit cable
2	Override button	6	Control unit connector
3	Handset cable	7	Bracket
4	Handset connector	8	Connector to vehicle

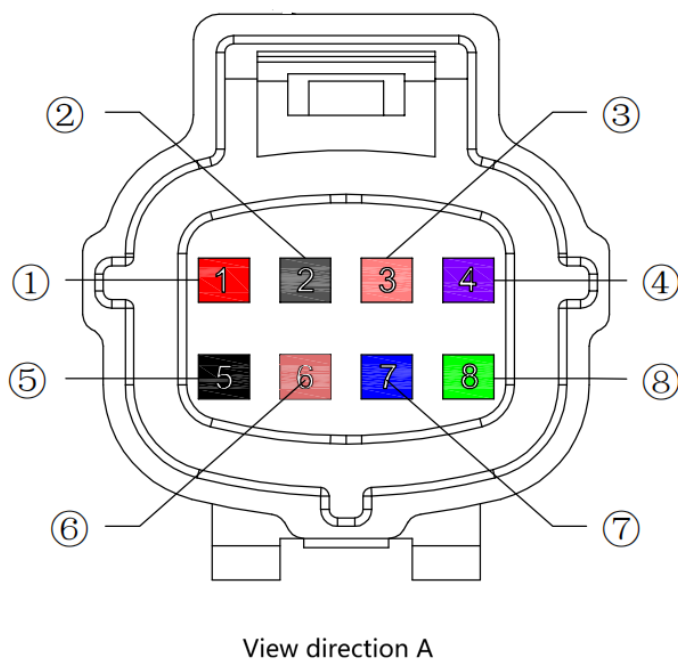
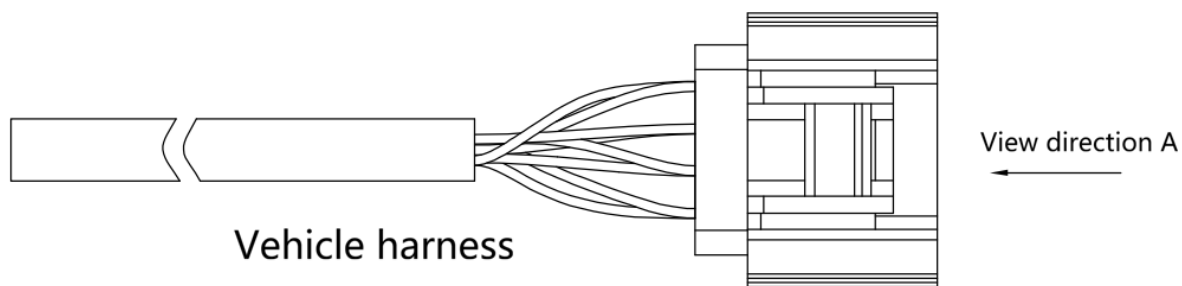
4. Connector between control unit and vehicle

There is a connector (8 Connector to vehicle) on the control unit cable which will be inserted into the another side of this connector on the vehicle.

Before to install the Control Unit to the vehicle,this connector will be found on the vehicle,below is the description of this connector.

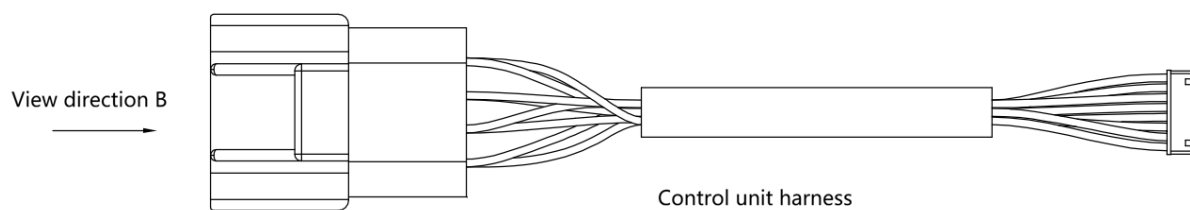
(1) Connector on the vehicle side

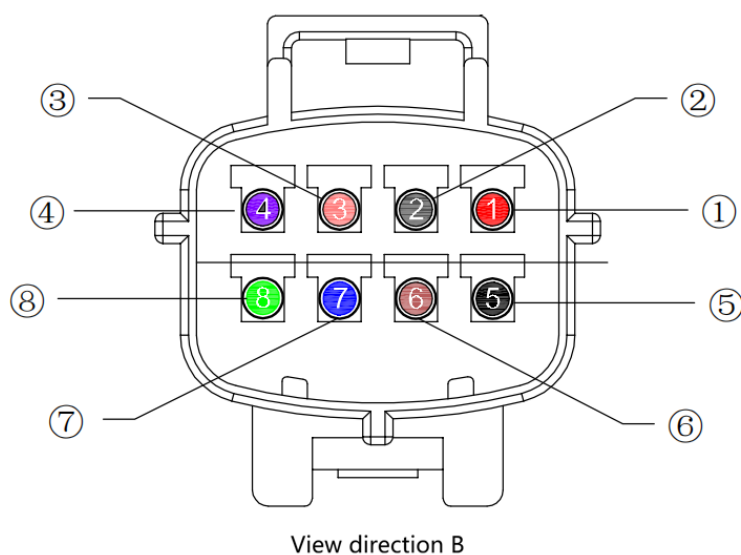
Connect type:TE2822393-1



Note: The PIN definition of above picture refer to Table 2.

(2) Connector on the control unit cable side:
Connector type: TE2822393-2





Note: The PIN definition of above picture refer to Table 2.

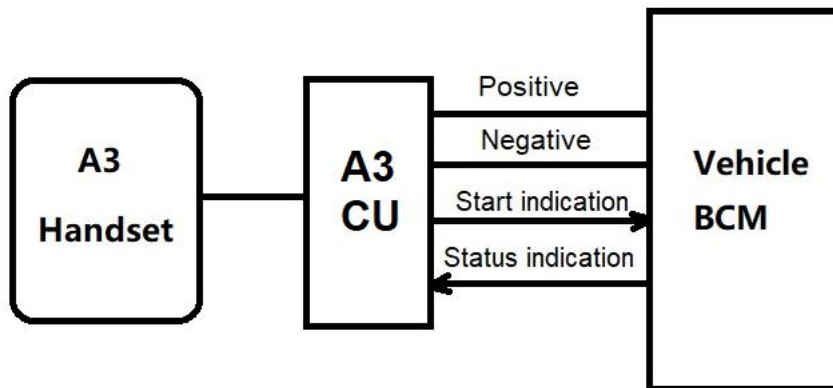
(3) Pin Definition

Table 2 PIN definition of harness

No.	Wire harness color	Diameter (mm)	Name	Working voltage (V)	Working current (A)	Connect to
1	Red	1.3	Positive	12/24, always on	>2	The positive pole of the car power
2	Black	1.3	Negative	0	>2	The negative pole of the car power
3	Pink	1.3	CAN High	12/24	<0.5	Reserved
4	Purple	1.3	CAN Low	12/24	<0.5	Reserved
5	White	1.3	Output	12/24	<0.5	Indicate the vehicle can start*: 0: not allow to start the vehicle 1: allow to start the vehicle
6	Brown	1.3	Input	12/24	<0.5	Indicate the status of vehicle*: 0: in stop status 1: in running status

7	Blue	1.3	LIN high	12/24	<0.5	Reserved
8	Green	1.3	Negative	0	<0.5	Reserved

5. System principle



6. Product installation

(1) Handset location

The handset should be installed in a place that the driver can reach and is not affected by other components of the vehicle. In this vehicle, the handset is installed on the Bracket, as shown in the below figure.



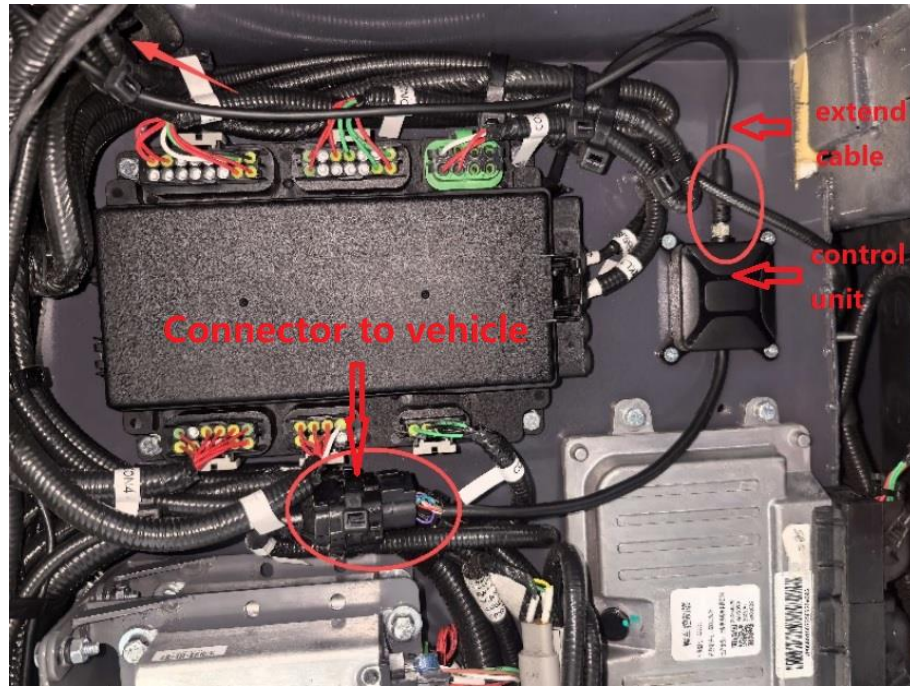


①	Bracket
②	Handset
③	Handset cable
④	Extend cable

(2) Control unit location

The control unit is usually installed below the instrument co-pilot panel.





- (3) Harness connection between control unit and the vehicle
The Control Unit harness (control Unit cable) is connected to the vehicle harness to provide power and to receive signal from control unit.

7. Product working principle

- (1) Under normal circumstances, when the driver passes the alcohol test, the white pin (PIN5) of the Control Unit cable will continuously output a “1”. If the test is failed, it will continuously output a “0” until next breath test. Here “1” means the driver can start the vehicle and “0” means he can not start the vehicle.
- (2) The installation way above is compliance with EN 50436-7:2016 Annex C 3B: Pseudo-digital installation.

8. Working process

(1) Alcohol Interlock On

- When the vehicle is not running, the alcohol Interlock is off. If the vehicle want to be started (e.g., in ACC or ON mode), power is supplied to the alcohol Interlock via the red PIN1 terminal. The device then initiates a self-test.
- After successful self-test the driver can start a test.

(2) Breath Alcohol Testing

- Prior to vehicle starting, the driver must do breath alcohol testing. Only after this test is passed, it may be started.
- Before each starting attempt, the vehicle must verify the output status of PIN5. The driver may only start the vehicle when it is '1'; if it is '0', ignition is prohibited.

(3) Vehicle Start-up

- Upon passing the breath alcohol test, the driver has 3-minutes to start the vehicle. If the driver fails to start the vehicle within 3-minutes, the previous test shall be expired. At this point, the output state of PIN5 will change from '1' to '0', remaining so until the driver passes next breath alcohol test.

(4) Vehicle in Operation

- Upon vehicle power-up, PIN6 will receive operational status. If the vehicle stops, the input shall be "0". If the vehicle is in motion, the input shall be "1" and remain in this state continuously.

(5) Vehicle Restart Procedure

- If the driver requires a temporary halt while driving, a maximum 30-minutes (can be set to other time) restart period without breath testing. During this period, PIN5 remains at '1' with a countdown will be shown on the screen. The vehicle may be restarted at any time within this countdown period without new testing. However, when the countdown period is over, PIN5 switches to '0' requiring the driver to retake the test before restarting. Therefore, the vehicle must check the PIN5 pin status before each start-up to prevent errors.

(6) Alcohol Interlock Off

- When the vehicle ceases operation and power is disconnected (e.g., in the OFF position), the alcohol Interlock power is disconnected. This involves disconnecting power to the red PIN1 pin to conserve energy.

9. Installation steps

No	Products	Installation Location/Photo	Fasteners	Number of fasteners
1	Interlock Parts		self-tapping screw	2
		Secure the bracket to the interior panel with 2 pieces self-tapping screw		
			self-tapping screw	4
		Secure the Control Unit to the plate using 4 pieces of self-tapping screw.		
			/	/
		Insert the handset into the Bracket		

2	Harness		/	/
		Connect the Control Unit harness and handset spiral harness in the location shown on the picture.		
			/	/
		Connect the Control Unit cable to the Harness Connectors of the vehicle. Installation is complete.		