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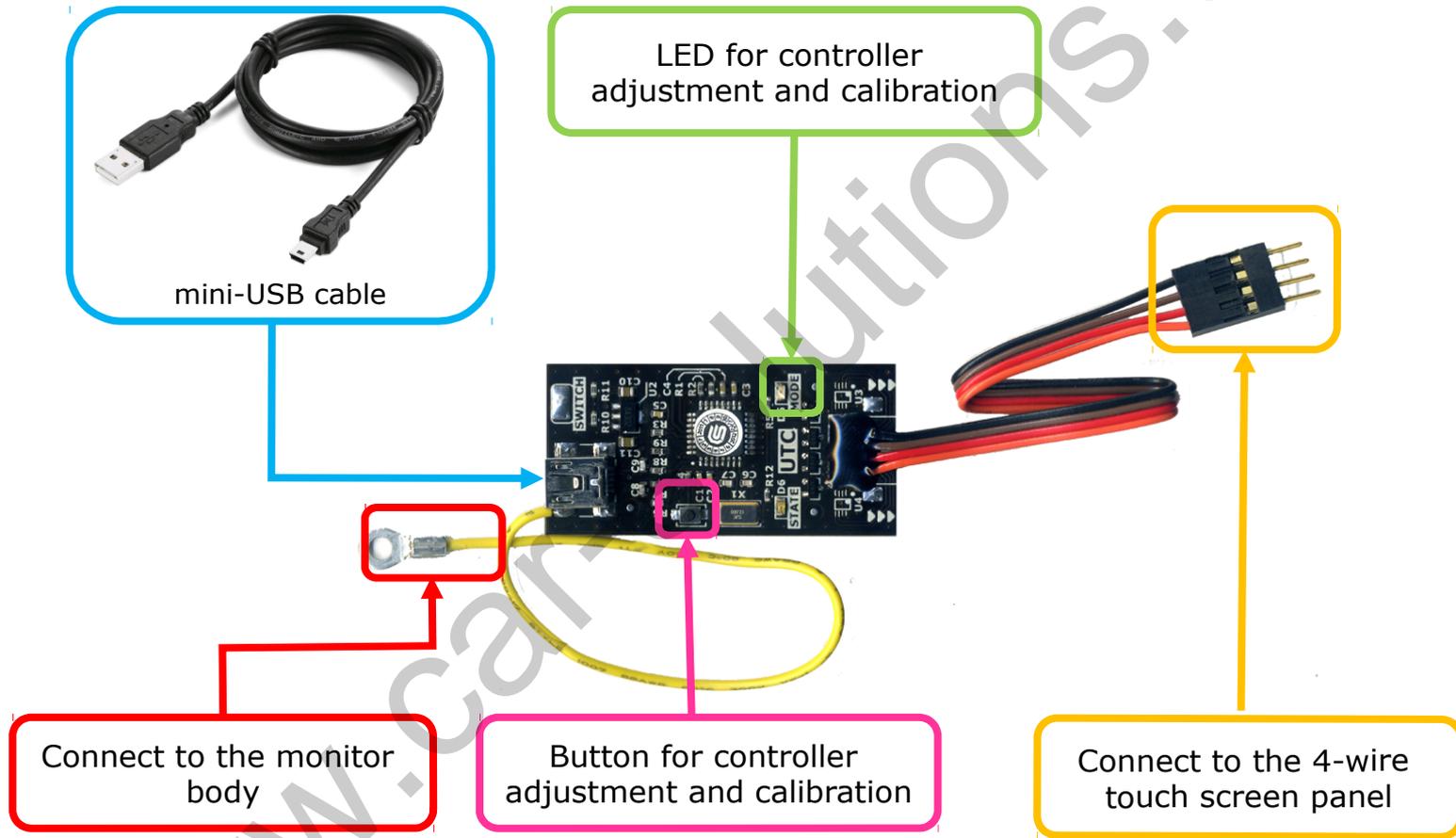
UTC – UNIVERSAL TOUCH SCREEN CONTROLLER

Manual

Warning!

- Check the package content after you receive the product. In case anything is missing, inform the seller or the manufacturer.
- Please, note that in many cars there is an interlock system to prevent the car steering. Be sure you have unlocking codes before you turn off the battery. You can find these codes in the documents of your car or on the sticker in your glove box. In case you've lost the code, please, contact your local car dealer.
- Before installation we recommend disconnecting the negative terminal from the battery or the fuse in charge of the OEM system to which the device is going to be connected.
- Only well-trained specialists should install the device. Incorrect installation of the device may cause damaging the car wiring or additionally installed equipment.
- Don't install the device near the «AIRBAG» equipment or wiring.
- There should be no devices with strong electromagnetic emission such as power generators, servo-engines, solenoids *in the place of installation*.
- Don't install additional equipment in the moist and dusty places.
- Don't remove or change the existing mounting of the equipment when you install new devices.
- Use insulating tape to insulate wires. Insulate the ends even of the unused wires to avoid short circuit and damaging of the car OEM and additional equipment.
- Install the wiring in such a way it doesn't contact sharp metal objects to avoid its chafing.
- Connect the power in the end of installation.
- Don't ever connect ground wire to the chassis of the car or any metal parts to avoid the potentials difference. This effect influences operation of the additional and OEM devices.
- Check operation of all OEM equipment after additional devices installation.
- The warranty becomes void in case of dismantling of the device (*warranty seals should not be broken*).
- The warranty does not cover damages caused by the mistake of the user or installer.

Flow-chart of the Controller



Controller Adjustment

To adjust the controller press the button and hold it until the definite number of blinks of "MODE" LED. When it reaches the necessary number of blinks, release it. Here is the table with the meaning of the number of «MODE» LED blinks:

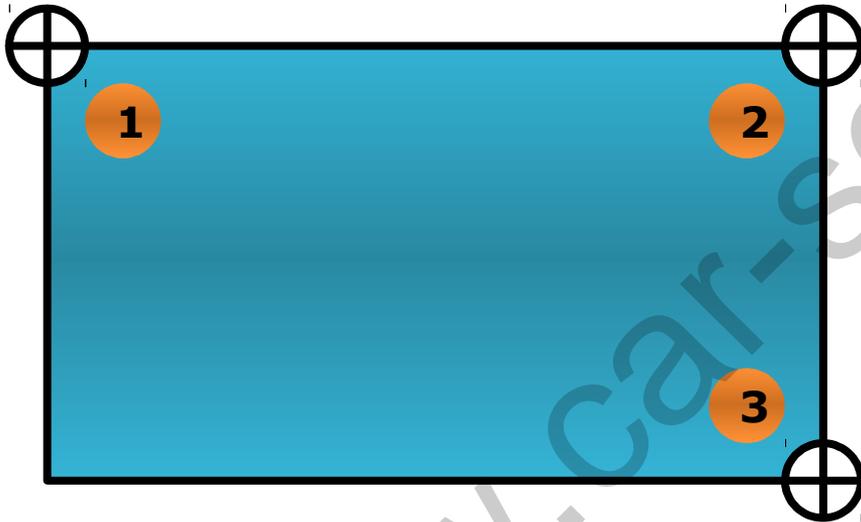
Number of blinks	Purpose
● 3 times	Touch screen panel calibration mode, when its size is the same as the monitor
● 4 times	Touch screen panel calibration mode with 10% space from the screen edge
● 5 times	Turning on/off of the switch mode – function is temporarily unavailable
● 6 times	Switching between Windows <> Android\Linux modes
● 7 times	Turning on/off of «HOME» button emulation for OS Android
● 8 times	Turning on/off of the cursor hiding
● 9 times	Factory reset

**Warning! If you do factory reset the following settings will be set:
Controller mode for OS Android, respond to «HOME», hide cursor, switch mode turned off.
Calibrate the touch screen panel after factory reset!**

Controller Calibration

Controller calibration, when the touch screen size is the same as the monitor:

1. Press the button
2. Don't release the button and count 3 blinks of the «MODE» LED
3. Release the button
4. «MODE» LED blinks once – press in the left upper corner of the touch screen panel (*pict. 1*).
5. «MODE» LED blinks twice – press in the upper right corner of the touch screen panel (*pict. 2*).
6. «MODE» LED blinks 3 times – press in the lower right corner of the touch screen panel (*pict. 3*).
7. Calibration is finished



Controller calibration when the touch screen panel is smaller than the monitor:

1. Press the button
2. Don't release the button and count 4 blinks of the «MODE» LED
3. Release the button
4. «MODE» LED blinks once – press in the left upper corner of the touch screen panel (*pict. 1*).
5. «MODE» LED blinks twice – press in the upper right corner of the touch screen panel (*pict. 2*).
6. «MODE» LED blinks 3 times – press in the lower right corner of the touch screen panel (*pict. 3*).
7. Calibration is finished



Warning! Use stylus or not sharp object for calibration. Be sure you that you precisely match the indicated places. In case the touch screen panel is not connected, is damaged or pressed, if the connection between the touch screen panel and controller is damaged, when you enter calibration mode, "MODE" LED will blink 5 seconds and the controller will exit the calibration mode.

Troubleshooting

P: Control of additionally connected devices doesn't work.

- S:
1. Calibrate.
 2. Connect the controller and connect the touch screen panel to the controller.
 3. Check if switch mode is turned on or off, when the mode is on "STATE" LED is lightened. If yes, turn off the switch mode.
 4. Shift to the corresponding Android\Linux <> Windows mode, depending on the device you use.
 5. Do Factory reset.
 6. Adjust the controller once more.

P: Pressing the touch screen panle does not coincide with the displayed pressing.

- S: Calibrate the touch screen panel as described above.

P: When you press the touch screen, the cursor is twitching horizontally or vertically.

- S: Connect chassis of the touch screen controller to the chassis of the monitor.

P: Spontaneous pressing of the touch screen in the certain place.

- S: Check connection of the controller and the touch screen panel.

P: "MODE" LED is blinking 5 seconds and stops blinking when you enter the calibration mode.

- S:
1. Check connection between the controller and the touch screen panel.
 2. Check whether the touch screen panel is not pressed by the plastic frame.
 3. Try to change the touch screen panel. It can be faulty or damaged.