

Before installation

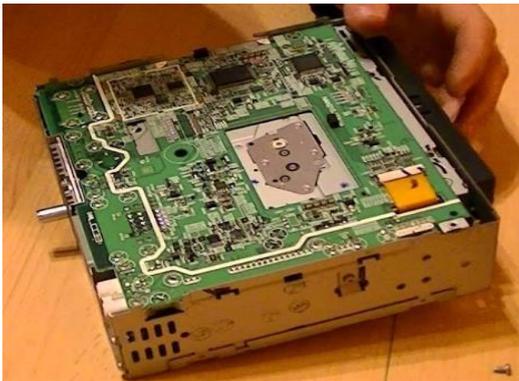
There are some things to know before buying or installing Bluetooth module:

- Bluetooth module works with all types of audio systems in V50, S40ii, C30, C70ii an XC90.
 - There is one CD unit with part number "1CD18U" which requires modified BT module. Those CD units are not very common, but if your car newer than 2009 and has USB please check your CD unit's part number before buying module. Part number can be found on CD unit.
- CD function MUST be working.
- Fully working CD disc must be inside player while Bluetooth is in use.
- CD function doesn't disappear. When Bluetooth isn't in use, a CD disc plays.
- Bluetooth module provide hands-free calls if purchased with microphone.
- Disconnect battery from car, especially for XC90 because not doing so might give you airbag fault later. Also it is advisable to do so to if your car equipped with 6CD unit to prevent damage of CD drive mechanism.

Different types of CD units

There are different types of CD units in previously mentioned cars. Bluetooth module works with all of them. The CD units differs only in difficulty of disassemble. Here are the types which I know:

- 6 CD



- single CD without internal amplifier



- single CD with internal amplifier

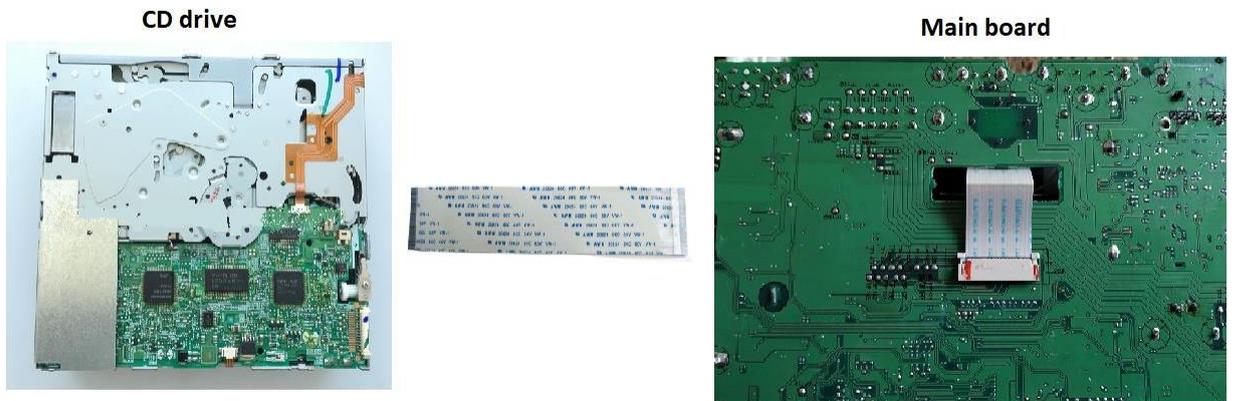


Installation

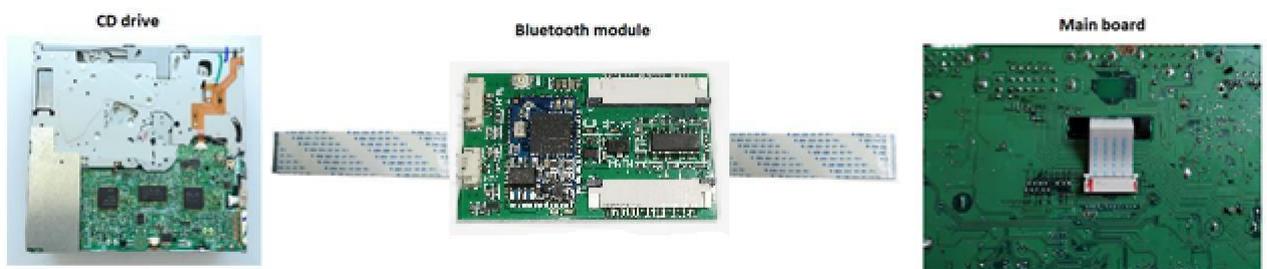
Principle of installation

The main principle of Bluetooth module installation is to disassemble CD unit and insert module between CD drive and main board of CD unit. Connection between CD and main board of CD unit is made with 18 pin 1mm pitch flat cable. There are two connectors for flat cable on BT module. There are text "CD drive" and "MAIN" near each connector which indicates where flat cables need to go.

Before installation:



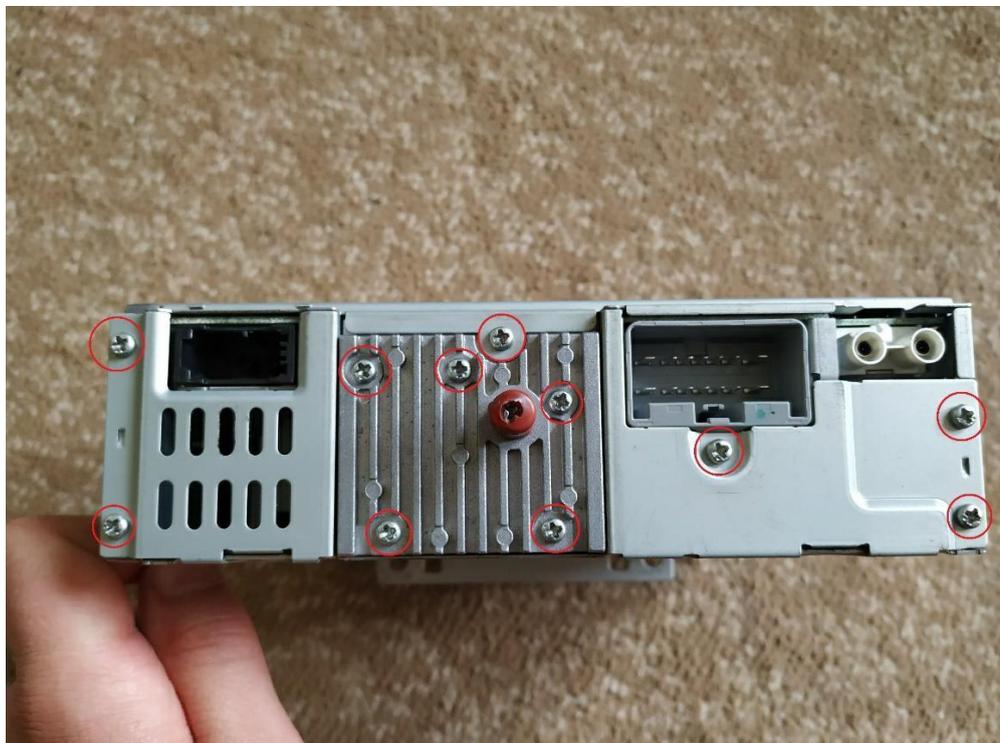
After installation:

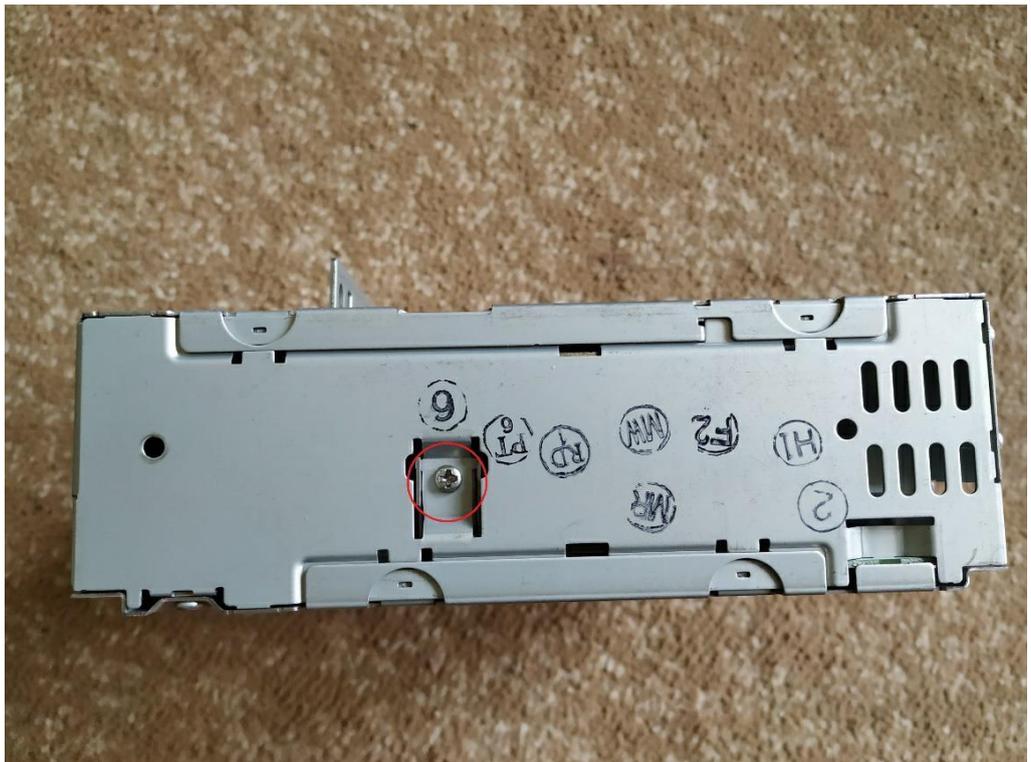


Example of installation

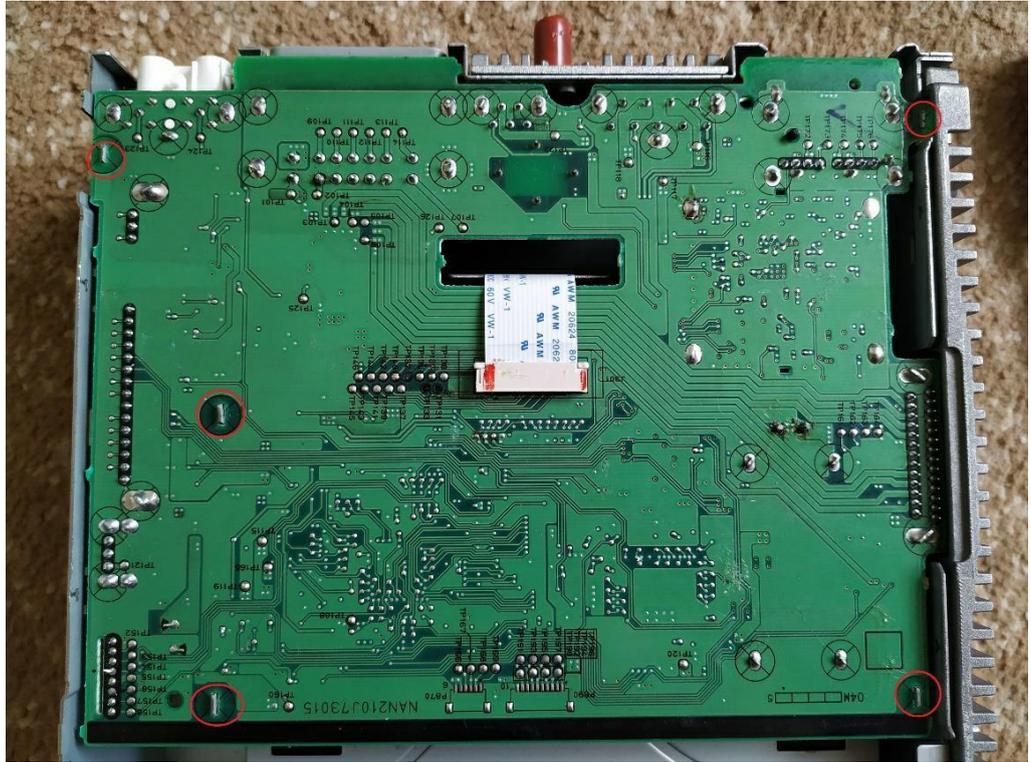
Installation process will be shown with third type of CD unit (single CD with amplifier).

- Unscrew marked screws. I recommend to take pictures of screws location, because they are different length

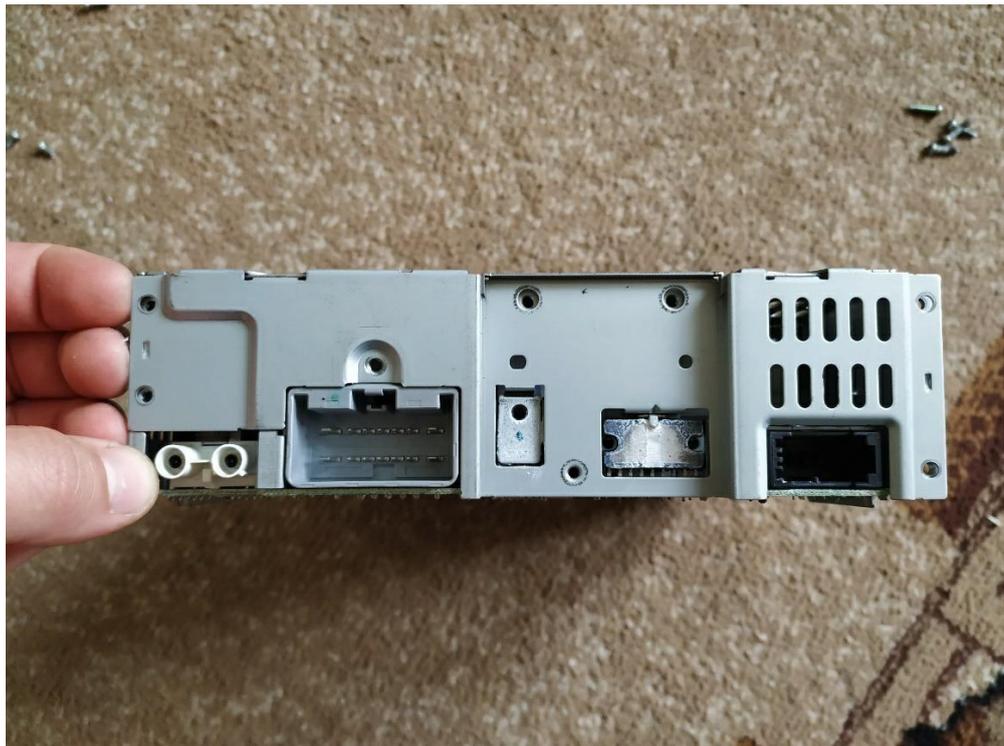


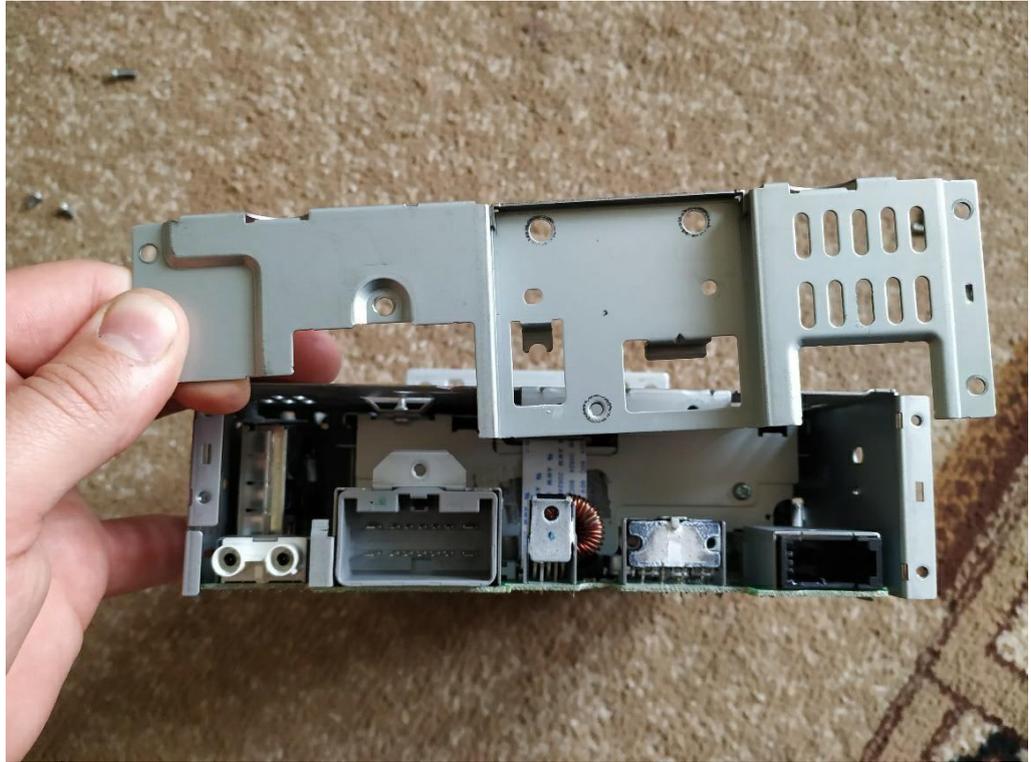


- When all screws are unscrewed – take upper cover off. After that unbend marked metal brackets.

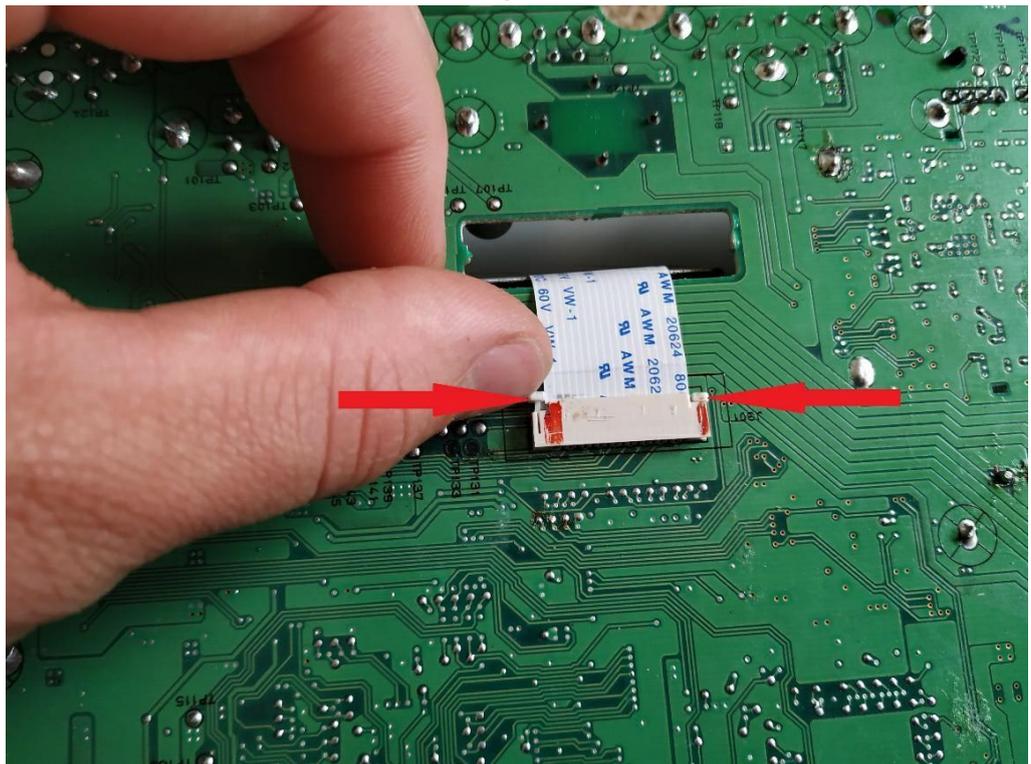


- When brackets are unbent – take back cover off.

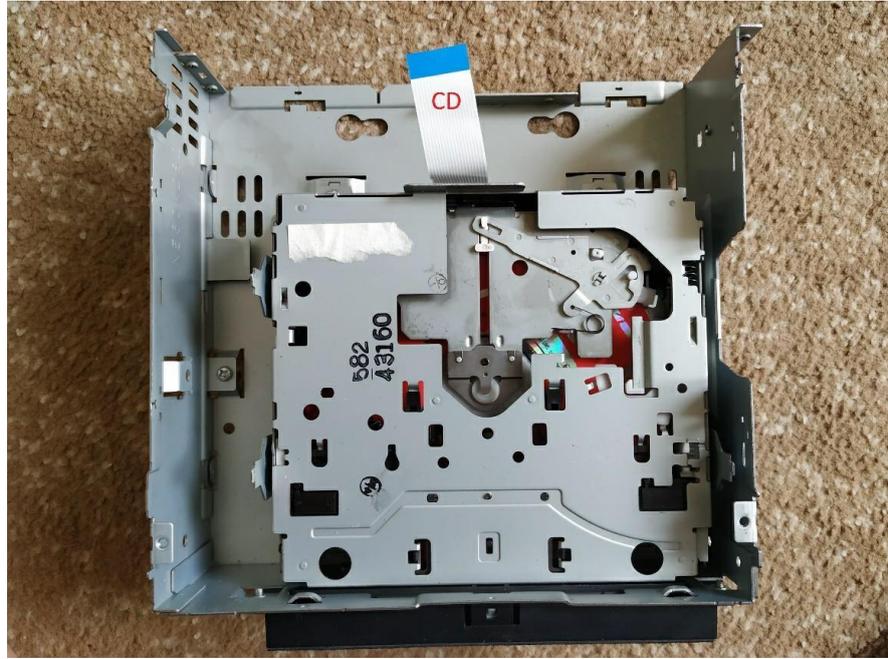




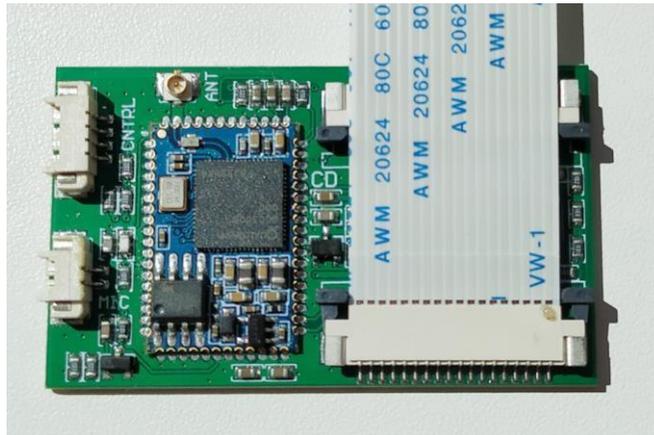
- After that unplug flat cable connector on main board. To unplug you need to pull out locks which are marked with arrows. After disconnecting main board, take main board off from the case.



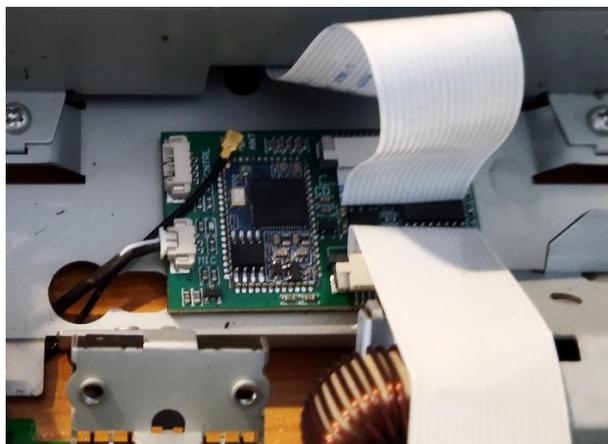
- After taking main board off everything should look like this:



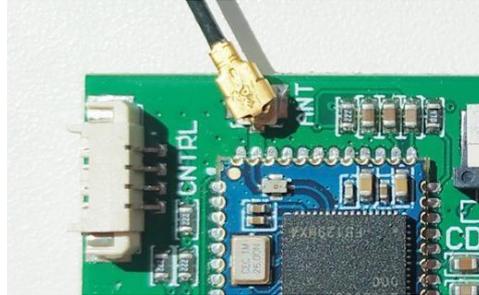
- I recommend to clean contacts of original flat cable's both ends before connecting everything together. For cleaning use simple eraser. Flat cable which is going from CD drive needs to be connected to connector of Bluetooth module which is named as "CD drive". Given extra flat cable needs to be connected to Bluetooth connector named as "MAIN". All connections should be made with the contacts facing up like shown in picture below.



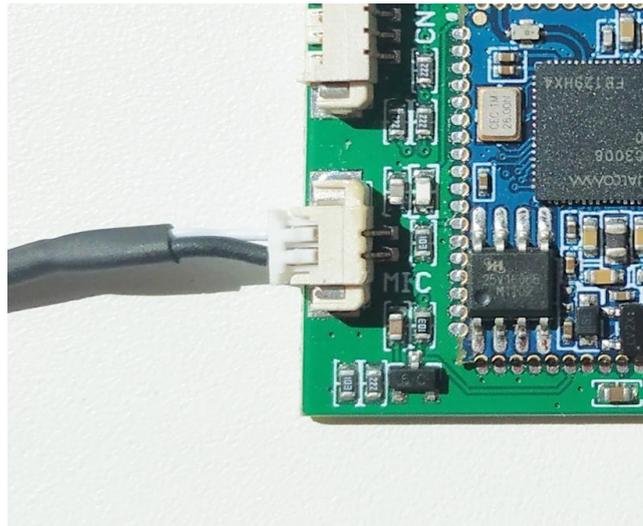
- Do not forget to push locks of connectors in. Stick Bluetooth module with given thick double sided tape in the most appropriate place. Take antenna wire of Bluetooth module out from closest gap or hole.



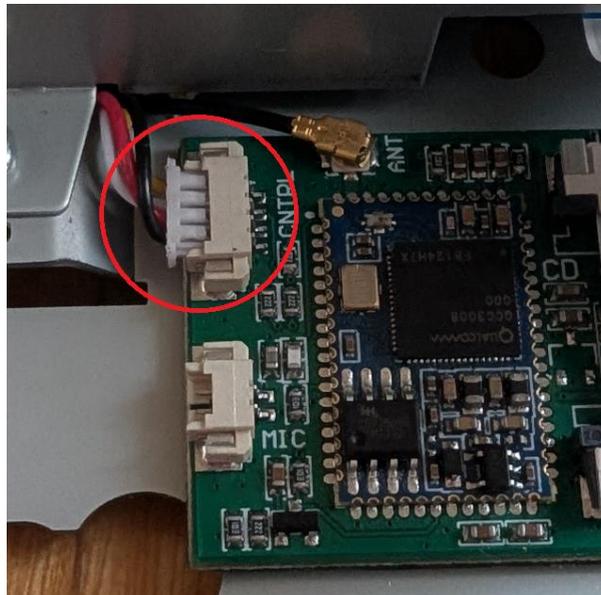
- Cable of the antenna should be connected as shown in the pictures below. Press the connector of the antenna to its receptacle until a "click" sound is heard.



- If microphone used connect as shown in the picture below.



- If steering wheel support add-on used, connect its 4-wire connector as shown below. Whole steering wheel support add-on should be left outside of the CD unit.

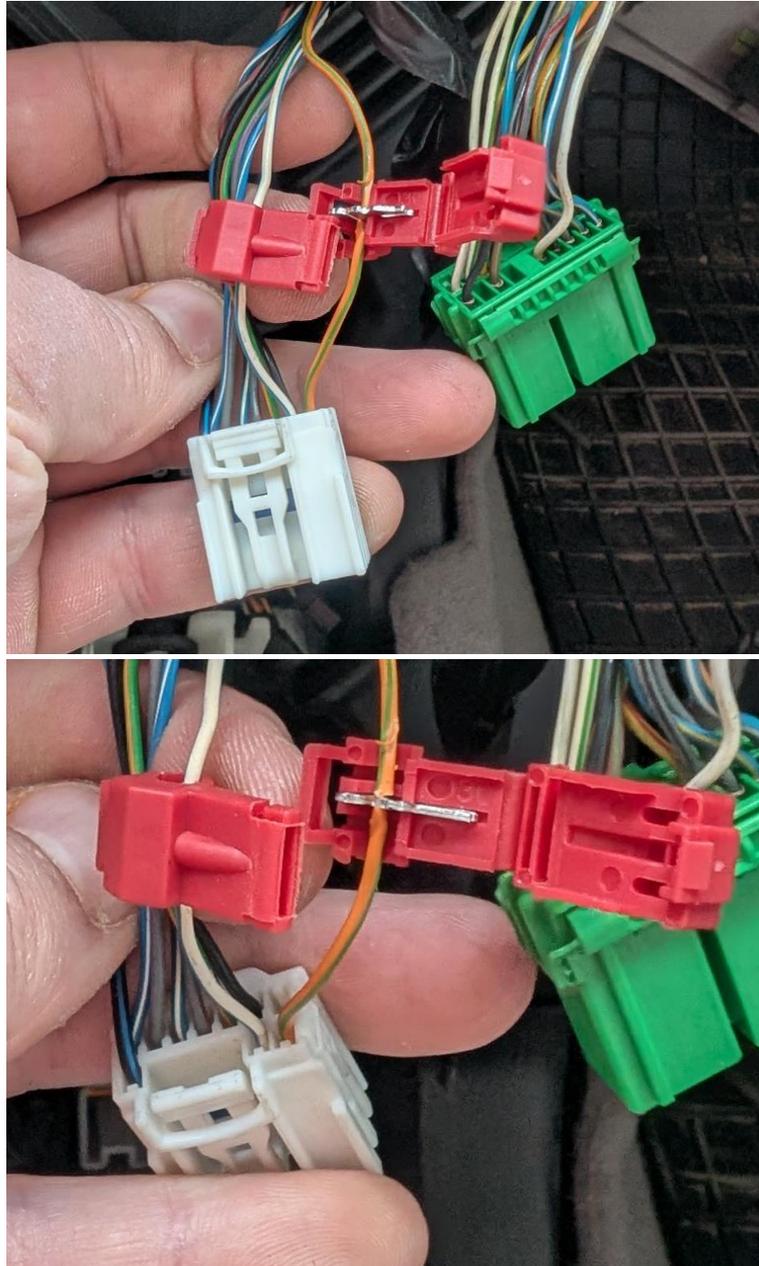


- After these steps everything can be assembled in reverse order. Do not forget to connect flat cable from Bluetooth "MAIN" connector to main board.
- Install CD unit back to car and stick antenna with double sided tape to nearest plastic part. If not possible then stick it on the CD unit itself, but placing it on non-metal surface will provide you the best range possible.
- When everything is assembled and CD unit is installed in car you should test if everything works. To do so you need to insert CD disc to car's CD player and press CD button on waterfall panel. You will hear music from CD. Connect to Bluetooth named "VOLVO BT- AUDIO v5.0". Music from CD should disappear. At this time you can stream music from your phone to car's stereo.

Installation of steering wheel support add-on

In this point, BT should be installed and 4-pin connector of steering wheel add-on should be inserted in corresponding connector of BT module.

- Crimp T-joints on wires of white connector of LCD unit. There are 2 given T-joints and the needs to be crimped on white-blue and orange-green wires as shown in the pictures below.

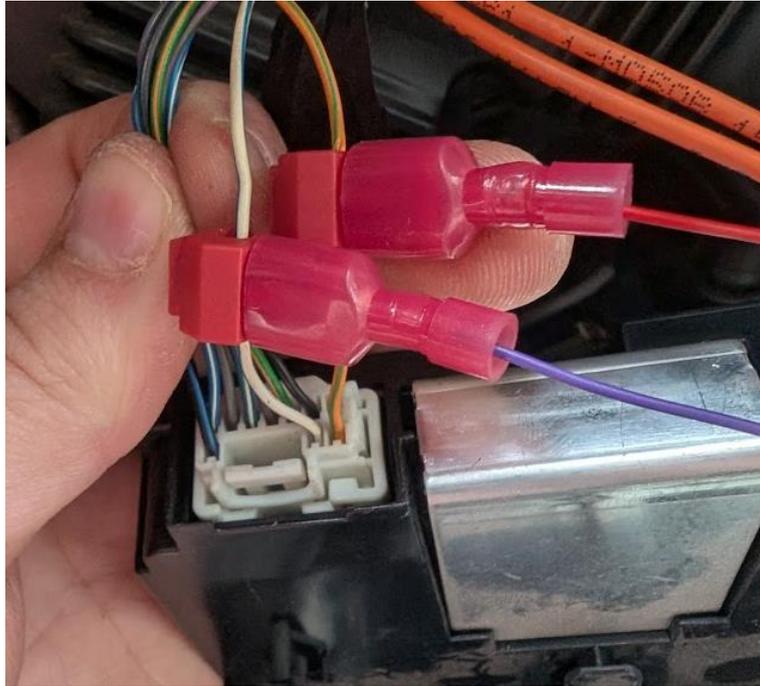


1. place wire in the T-tap connector

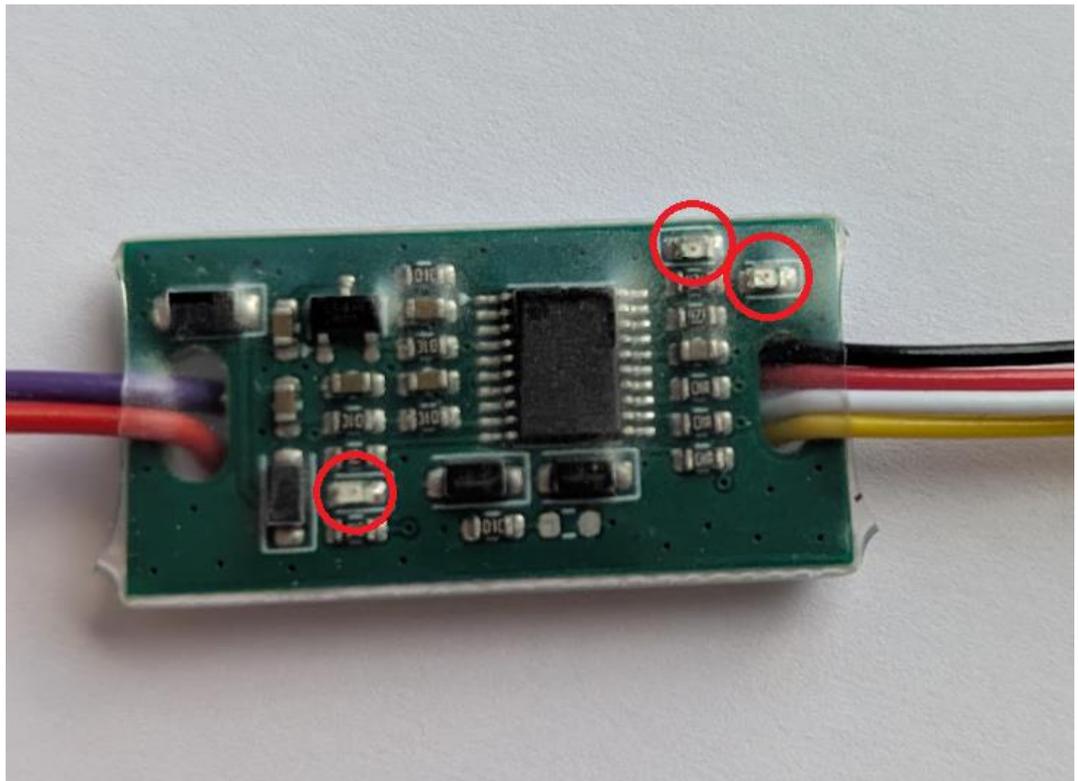


2. Fold connector over wire with plier and squeeze

- After that, connect connectors of steering wheel add-on to crimped T-joint assemblies. Connector with **RED** wire goes to orange-green wire and connector with **VIOLET** wire goes to white-blue wire like shown below.



- At this point it is possible to check if everything is connected right. Connect CD unit, LCD unit and “waterfall” back to their connectors and switch ignition key to I position. You should see flashing 3 LEDs on steering wheel support add-on. After flashing of LEDs ends pressing buttons on steering wheel will light up corresponding LEDs.



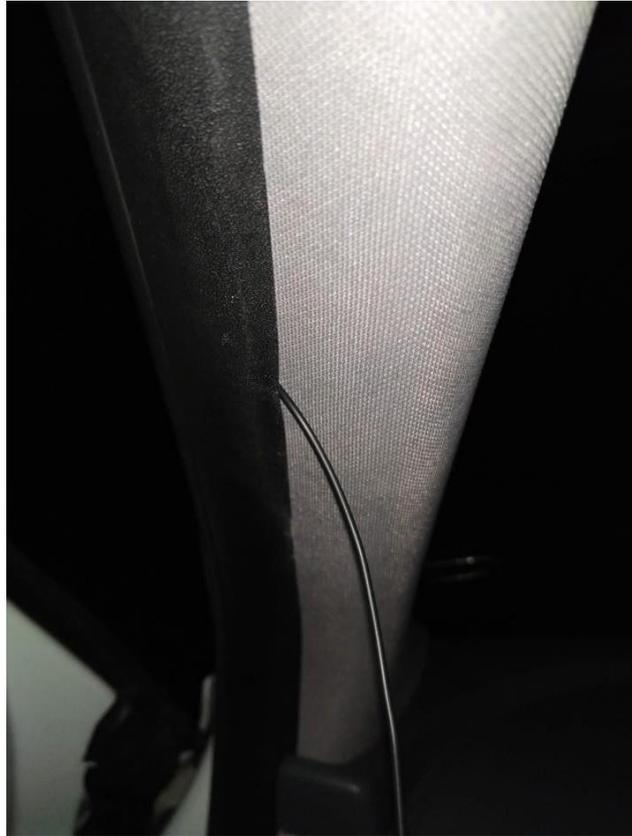
- If everything works fine – time to assemble all units, plastic parts back to car. If steering wheel add-on LEDs do not light up when buttons on steering wheel are pressed – check if T-joints are crimped properly and there is a connection between wire and T-joint.

Installation of microphone

- First place microphone in “A pillar” like in the picture below.



- After that route cable under the door sealing rubber like in pictures



- Route this cable until you will reach the first plastic part. After that, you'll need to take out that plastic part which is shown in the picture below. This plastic part comes out by pulling it towards the door.



- This part needs to be removed only to hide the cable behind it and that allows you to route the whole cable under the panel to the CD unit.



- After routing cable to CD unit connect cable to Bluetooth module.

Link to video of taking out CD unit

<https://www.youtube.com/watch?v=3ADiJ42unps> (Video borrowed).