

# Autostrada *e*-Cruise

Installation instructions for  
LC-70 4.5 V8 TDi Auto, 2017-2022. (With CANBUS)  
Wired Genuine Toyota SWS.



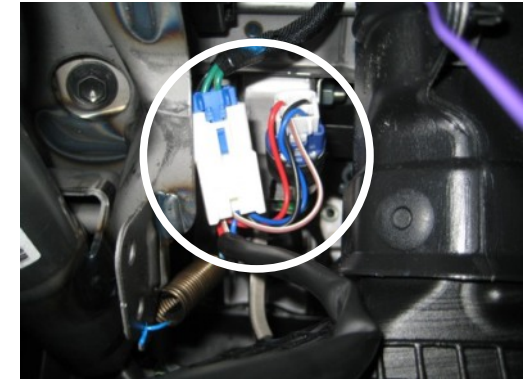
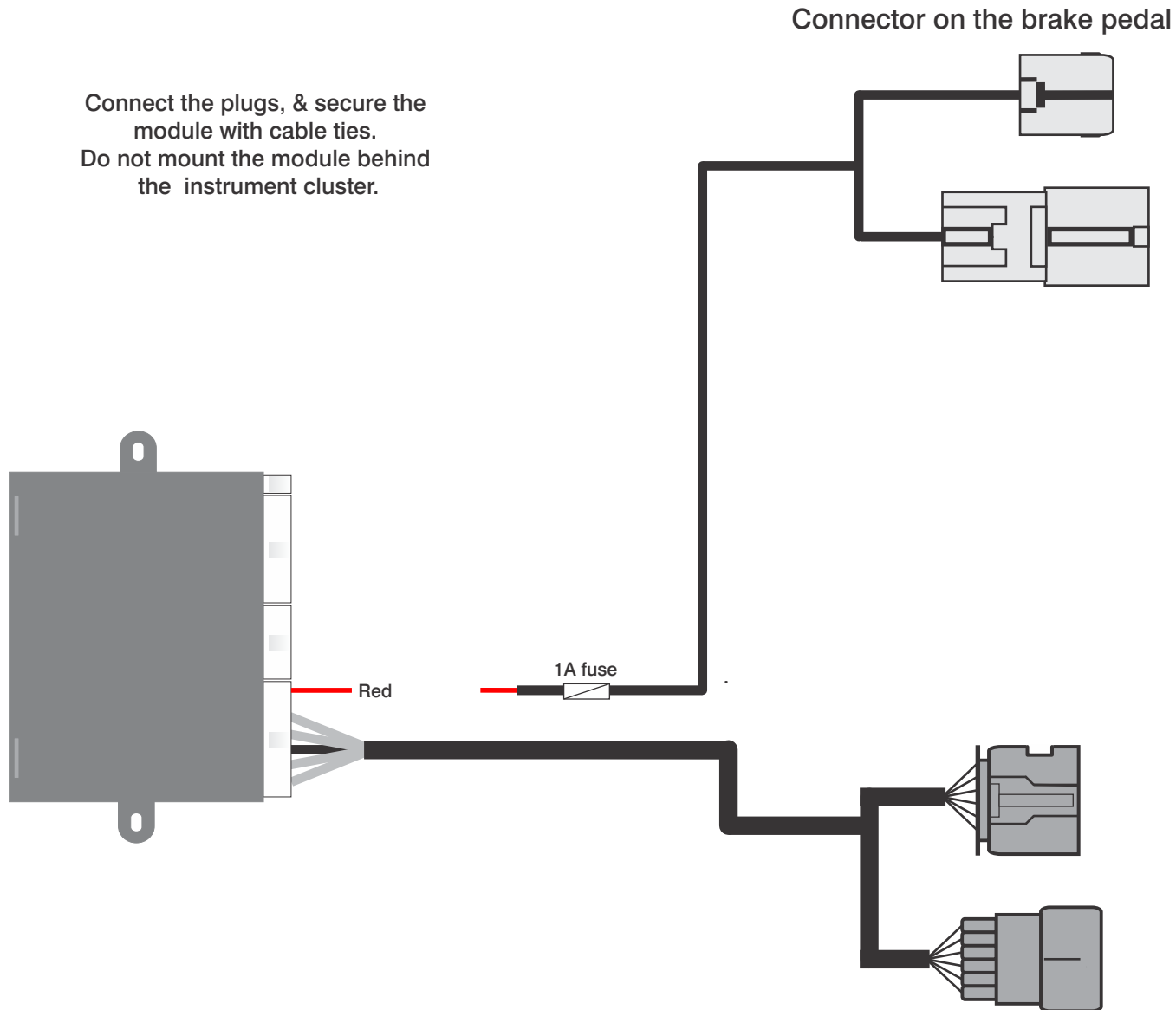
Do not mount the control module  
behind the instrument cluster.  
Wire connections must be soldered.

## Please note the following warnings.

1. This product should only be installed by a suitably qualified installer.
2. In some installations, the drivers SRS air-bag is required to be removed.  
This must be done in accordance with the manufacturers instructions.  
Air-bags are an explosive device, & failure to adhere to the manufacturers instructions, could result in injury or death. If you are not familiar with these instructions, DO NOT remove the air-bag. Seek a professional installer, who is trained in the removal of air-bags.
3. All connections to the vehicle must be done as per these instructions.  
Failure to do so, could result in damage to sensitive vehicle electronics, or damage to the control module.

Kit contents: Control module.  
Main loom.  
Switch loom.  
Pedal loom.  
Fitting kit.  
Fitting instructions.  
Operating instructions.

Connect the plugs, & secure the module with cable ties.  
Do not mount the module behind the instrument cluster.

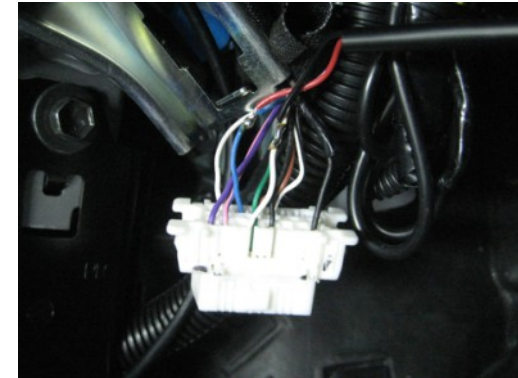
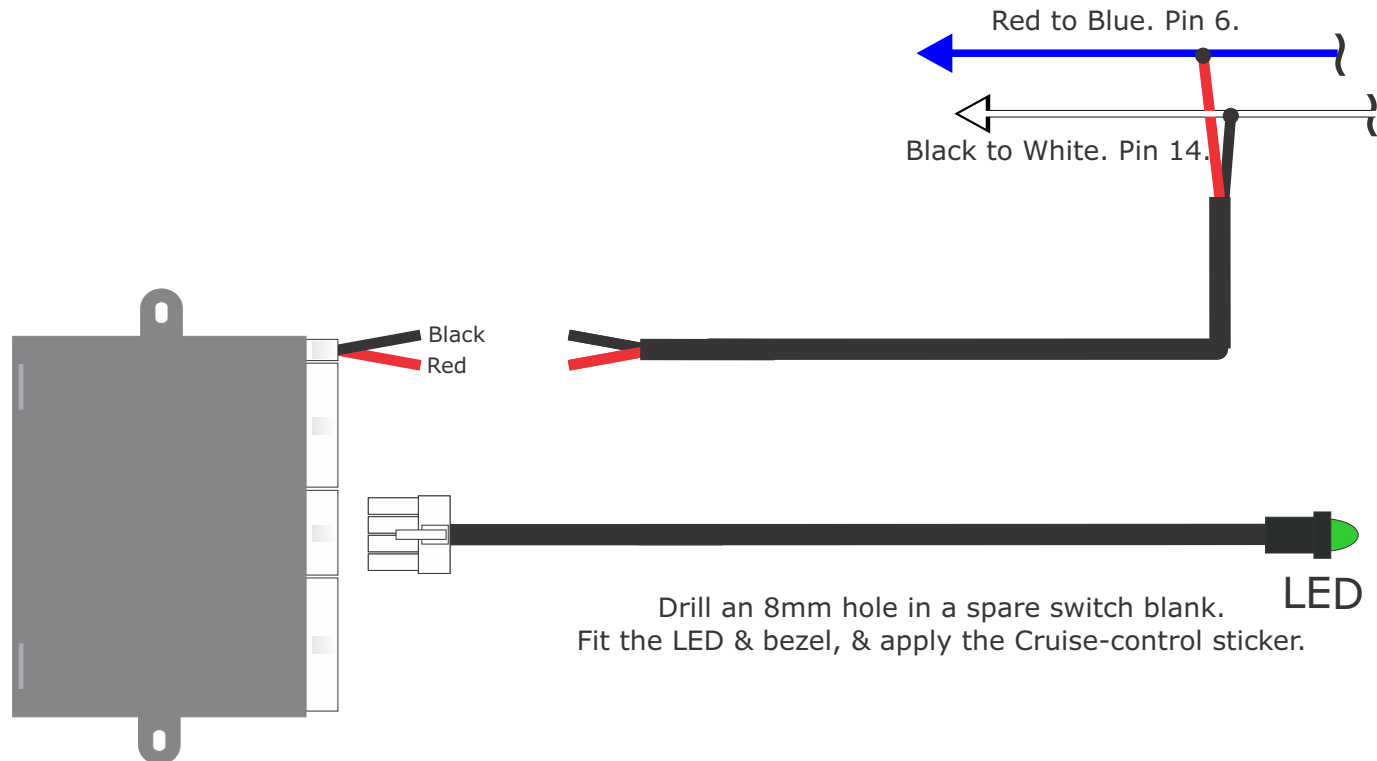


Connect brake T-patch to factory brake switch.

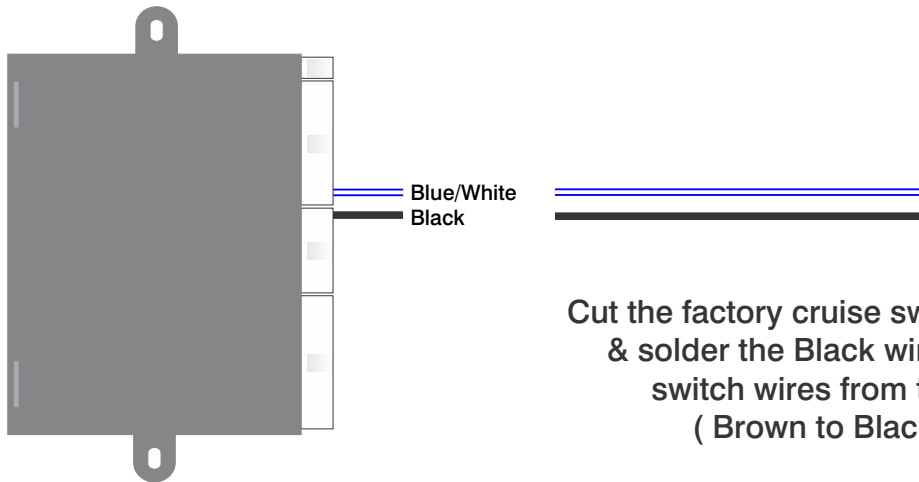
Connector on the accelerator pedal



Connect the cruise T-patch pedal harness between the throttle pedal & the vehicles harness.



Solder the CANBUS signal wires to the wires at the OBD-II plug as shown.



Cut the factory cruise switch wires from the clock-spring,  
& solder the Black wire & the Blue/White wire to the  
switch wires from the clock-spring connector.  
( Brown to Black, & Blue to Blue/White).

# Autostrada E-Cruise-II wire/function description

NOTE: Only use a multi-meter for testing. Using a test-light can damage some circuits.

## 14 Position Connector A

1. Not used
2. Not used
3. Not used
4. Output circuit 2 to accl. pedal
5. Output circuit 2 to ECU
6. Output circuit 1 to accl. pedal
7. Output circuit1 to ECU
8. Ground input
9. Power + 12V Ignition input
10. Not used
11. Not used
12. Not used
13. Not used
14. Not used

## Wire Colour

- 1.Blue/Black
- 2.Yellow/White
- 3.Yellow
- 4.Red/Black (or Red)
- 5.Yellow/Black (or Yellow)
- 6.White/Orange (or White)
- 7.Orange/Green (or Green)
- 8.Black
- 9.Red
- 10.White/Violet or Blue/White
- 11.Grey/Black
- 12.Grey/White
- 13.Not used
- 14.Not used

## 12 Position Connector C

- 1.Clutch +12v input
- 2.Clutch 0V/Earth input
- 3.Brake +12V input
- 4.VSS input
- 5.Power +12V Ignition input
- 6.Ground Input
- 7.LED output (SET)
- 8.Not used
- 9.Not used
- 10.Not used
- 11.OEM control switch input
- 12.Brake 0V/ Earth switched input

## Wire Colour

- 1.Yellow
- 2.White
- 3.Blue
- 4.Violet
- 5.Red
- 6.Black
- 7.Green
- 8.Not used
- 9.Not used
- 10.Not used
- 11.White/Violet or Blue/White
- 12.Brown/White

## 8 Position Connector B

- 1.Not used
- 2.Not used
- 3.On/accl/resume input function
- 4.Set/dec input function
- 5.Ground output
- 6.LED output (ON)
- 7.Power +12V output
- 8.Off input function

## Wire Colour

- 1.Not used
- 2.Not used
- 3.Black/Violet (SWS) - Blue (LHS)
- 4.Red/Violet (SWS) - White (LHS)
- 5.Black (SWS)
- 6.White/Blue
- 7.Yellow/Blue (SWS) - Red (LHS)
- 8.Violet/Green (SWS) - Yellow (LHS)

\*SWS - Steering Wheel Switch

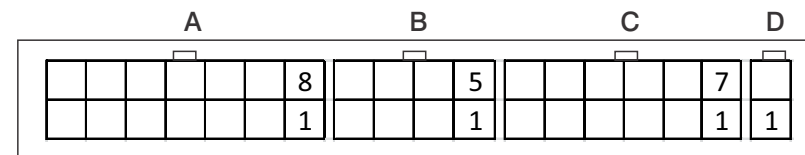
\*LHS - Lefthand Stalk

## 2 Position Connector D

1. CAN High input
2. CAN Low input

## Wire Colour

1. Red - to Pin 6 on OBD II
2. Black - to Pin14 on OBD II



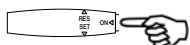
## Trouble shooting guide.

### Enable Diagnostic mode:

There is a 3 colour service LED surface-mounted on the circuit board next to the programming port on the back of the module. (opposite side from the connectors). To enter Diagnostic Mode, use the following instructions.



Turn on ignition.



Within 2 seconds, press and hold the ON function



Wait until test LED lights up in RED color



Release ON function



Within 2 seconds



Press and hold SET function



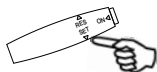
The test LED lights up in ORANGE color



Release SET function



Within 2 seconds



Press RES function



The test LED will flash in all 3 colours, provided that no inputs are activated. (ie; brakes, clutch). Otherwise the test LED will light up red.

Once you have entered the diagnostic mode, Carry out the tests of the functions.

### Enter test 1 - Brake function.

Activate RES briefly. Test LED will flash orange 1 time.

Test LED lights up Red, and changes to green when pedal is depressed.

### Enter test 2 - Clutch function. N/A.

### Enter test 3 - Accelerator pedal function (engine off).

1. Activate RES briefly. Test LED will flash orange 3 times.
2. The test LED will slowly flash red/green.
3. Depressing the accelerator pedal will increase the freq. of the flashing.

### Enter test 4 - VSS function. ( Speed signal).

Activate RES briefly. Test LED will flash yellow 4 times.  
The test LED will flash green if correct ID is received.

## E-Cruise II

“Install change-over relay”.

If the vehicle has LED brake-lights, there will be no Earth signal on the Brown/White wire. The cruise control will think that the brakes have been applied, & will not SET. A relay can be installed to provide the Earth for the cruise to SET, & for the cruise to cancel when the brakes are applied. A 5-Pin change-over relay must be used. This is installed in to the cruise controls Brown/White wire as shown.

