

Autostrada *e*-Cruise

**Installation instructions for
LC-70 4.5 V8 TDi (Without Air-bag)
L/H Stalk.**



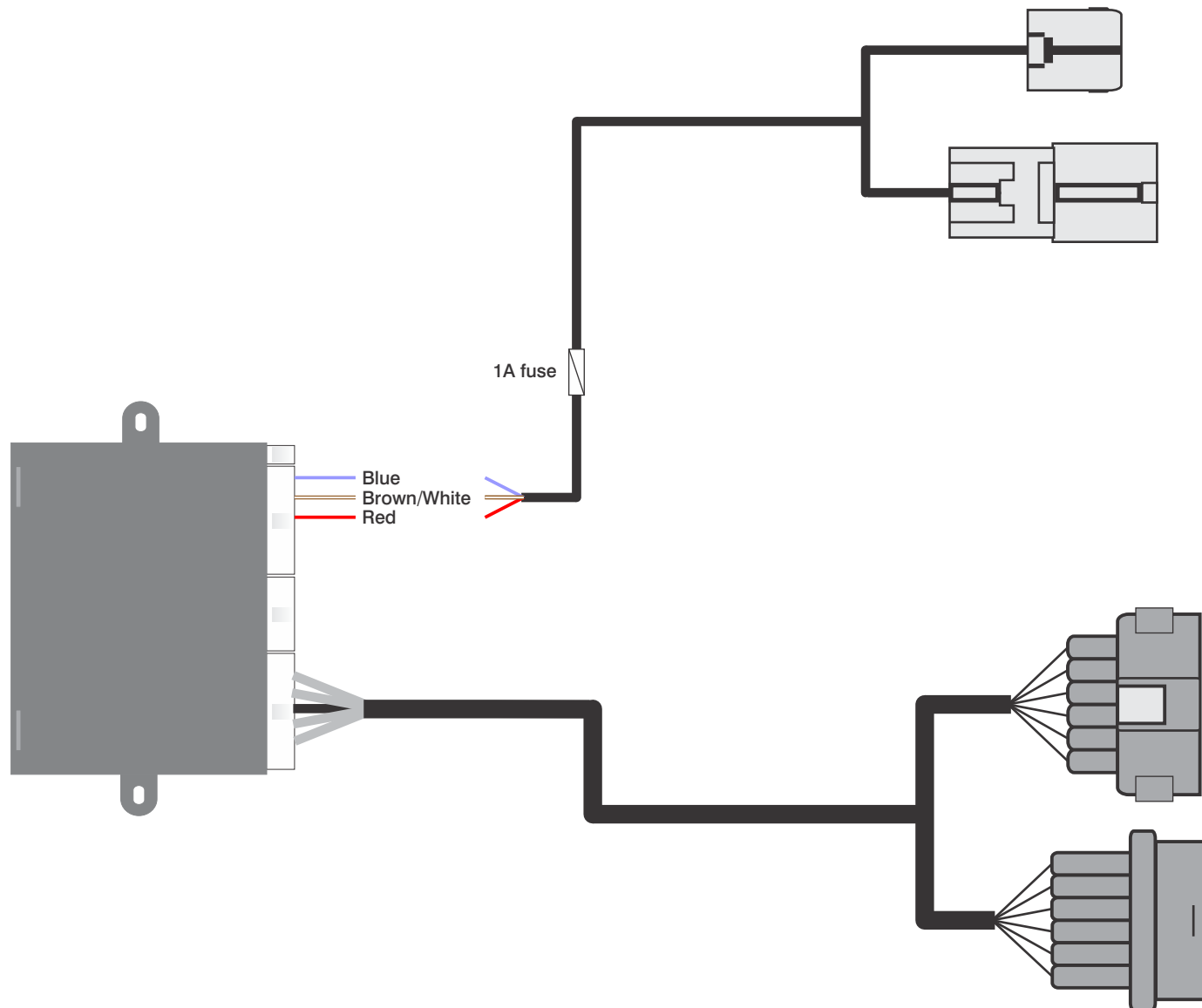
**Do not mount the control module
behind the instrument cluster.
VSS wire must be soldered.**

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.
Control switch.
Fitting kit.
Fitting instructions.
Operating instructions.**



Connector to the brake switch.



Connect brake T-patch to factory brake switch.

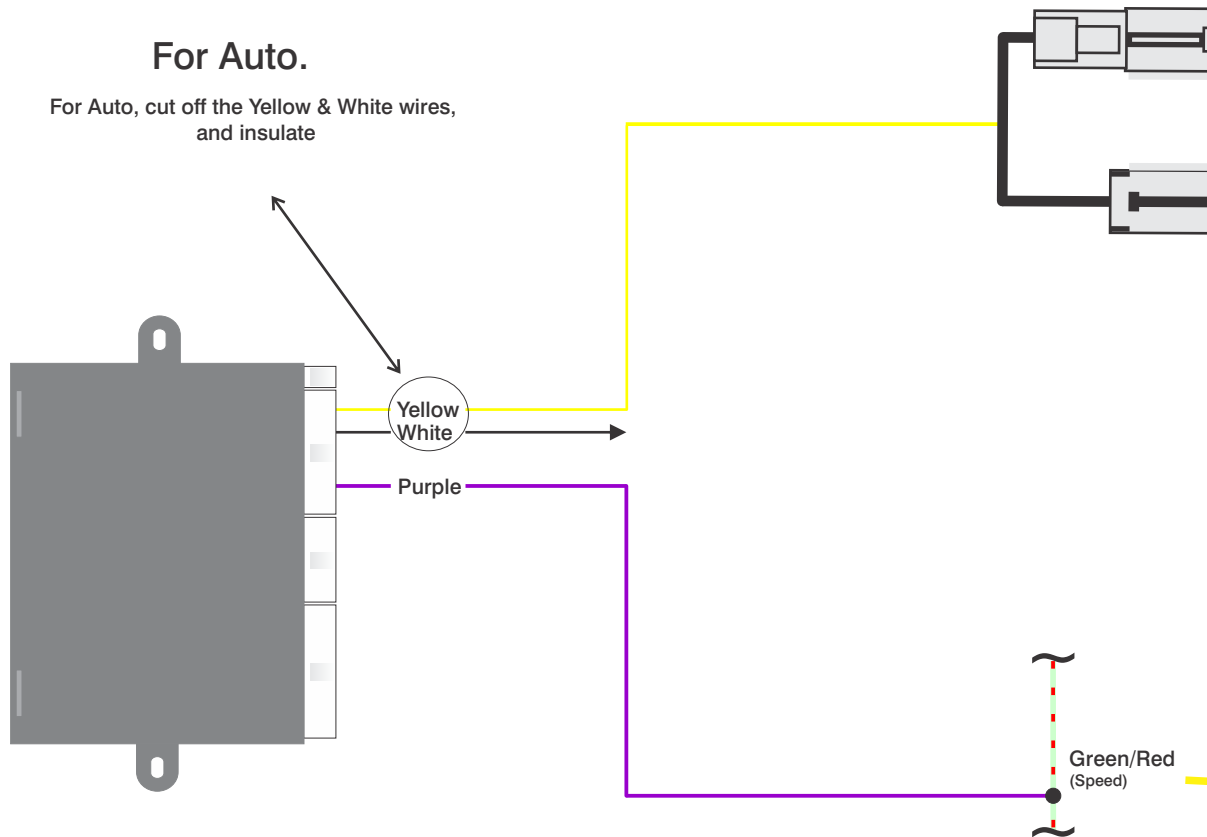
Connector on the accelerator pedal



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

For Auto.

For Auto, cut off the Yellow & White wires,
and insulate

**For Manual.**

White connector on the clutch switch.



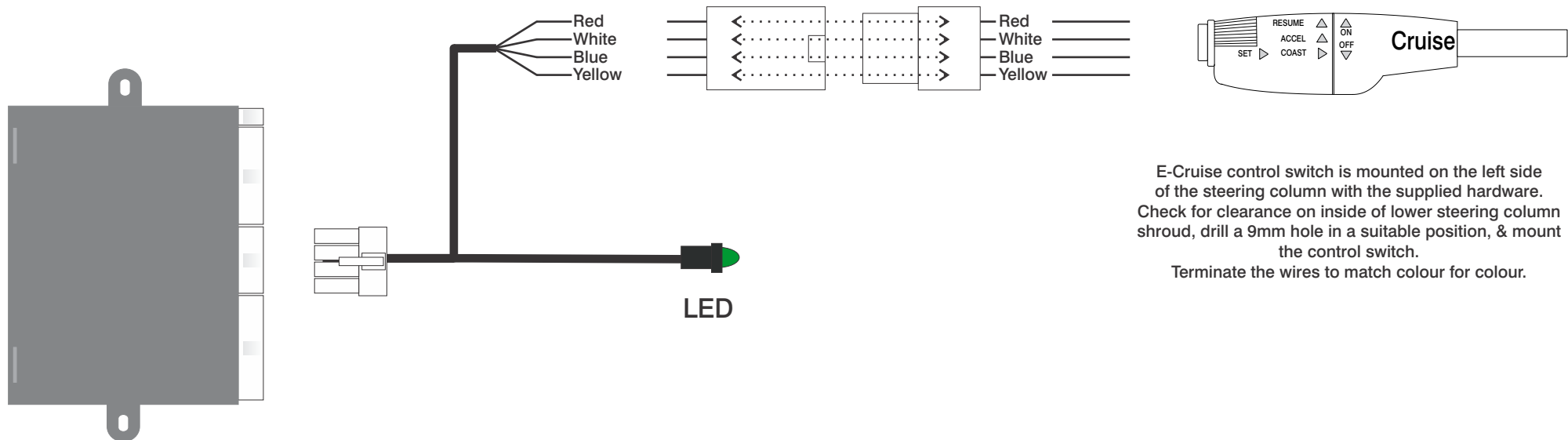
Connect clutch T-patch to factory clutch switch.
NOTE; The Yellow wire should match with the
Pink/Black wire.

Blue connector behind
the instrument cluster.
(remove the instrument cluster).



Solder the Purple wire to the Green/Red
wire in the Blue connector plugged in to the
instrument cluster.

Mounting of control switch



E-Cruise control switch is mounted on the left side of the steering column with the supplied hardware. Check for clearance on inside of lower steering column shroud, drill a 9mm hole in a suitable position, & mount the control switch.

Terminate the wires to match colour for colour.

Drill 8mm hole in a suitable position,(eg. switch-blank),
mount the LED & bezel, & apply the cruise-control sticker.
Secure all wiring with cable-ties to avoid contact with sharp
or moving parts.

Road-test & check all functions.

Autostrada E-Cruise-II wire/function description

NOTE: Only use a multi-meter for testing. Using a test-light can damage some circuits. Not all wires are used/present in some kits.

14 Position Connector A

1. Not used
2. Not used
3. Not used
4. Output circuit 2 to throttle pedal
5. Output circuit 2 to ECU
6. Output circuit 1 to throttle pedal
7. Output circuit 1 to ECU
8. Ground input
9. Not used
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/Output
7. LED output (SET)
8. Not used
9. Not used
10. Not used
11. Not used
12. Brake 0V/ Earth switched input

Wire Colour

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

8 Position Connector B

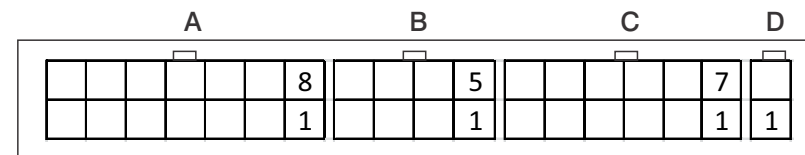
1. Not used
2. Not used
3. On/accl/resume input function
4. Set/dec input function
5. Ground output
6. LED output (ON)
7. Power +12V output
8. Off input function

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



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.

Enter test 1 - Brake function.

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

1. If both brake wires are installed correctly, the test LED will light up green.
2. Hot side of brake is defective = test LED lights up red.
3. Cold side of brake is defective = test LED lights up orange.
4. Both sides of brake defective = test LED flashes all 3 colors.
5. When brake pedal is depressed, the test LED lights up orange.

Enter test 2 - Clutch function.

Activate RES briefly. Test LED will flash orange 2 times.

1. If clutch wires are installed correctly, the test LED lights up green.
2. If clutch is defective, the test LED lights up red.
3. When clutch pedal is depressed, the test LED lights up red.

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 (the engine must be running).

Activate RES briefly. Test LED will flash orange 4 times.

1. The test LED should flash green when vehicle is moved.