

FlashPro install for V6 Accord and TL



This documents the upgrade of the 04-06 TL and 03-07 MT V6 Accord with an 07-08 TL ECU for FlashPro use.

Overview.

The 07-08 TL FlashPro can be used with an 04-06 MT TL and 03-07 MT V6 Accord after the vehicle is fitted with the appropriate 07/08 ECU, CAN and ECU adapter.

Prerequisites:

ECU part number	Donor Vehicle
RDA-A83 through RDA-A84	2007 Acura TL Base Auto
RDB-A02 through RDB-A04	2007 Acura TL MT Type-S
RDB-A11 through RDB-A12	2008 Acura TL MT Type-S

Vehicle	Hondata parts
2003-2007 V6 MT Accord	03-07 V6 Accord adapter & CAN adapter
2004-2005 TL MT	04-05 TL adapter & CAN adapter
2006 Acura TL MT	CAN adapter
2006 Acura TL MT with Navi & TPMS	06 TL with TPMS adapter

The Hondata FlashPro uses the CAN programming protocol for high speed ECU programming. Although the entire TL/Accord model range from 2004-2008 uses CAN for systems communication, the CAN wiring does not extend to the OBD2 diagnostic connector for the 06 and earlier TL and 07 and earlier V6 Accord nor are these ECUs able to program via CAN. When the TL/Accord is upgraded with an 07-08 TL ECU and the CAN wiring is extended into the OBD 2 connector the Hondata FlashPro for TL can then be used to custom tune your engine.

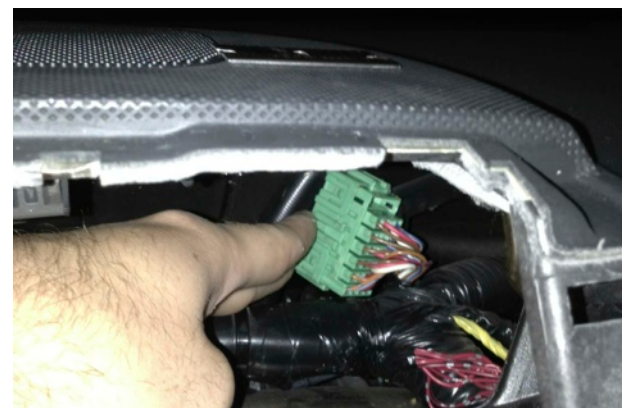
Overview

The 06 TL with Navi and TPMS has a fully populated CAN Bus connector and uses a special adapter harness. For all other models the following instructions 1 through 14.

1. Install the CAN harness from the DLC connector to the CAN Bus connector.
2. Drive your car to an Acura or Honda dealer. Be sure to book in advance.
3. Install your 07 TL ECU while at the dealer.
4. Instruct your Honda or Acura dealer to program your VIN number into the ECU. They match the new ECU to your immobilizer using the “**Replace ECU**” function.
5. Register your FlashPro and lock it to your ECU. An internet connection is required.

Hondata CAN adapter harness installation

1. **TL.** (06 MT model without TPMS and Navi)
With a small screwdriver, starting from the rear, lever up the console metal trim from both sides and remove. With a stronger screwdriver, lever out the ventilation console. The 4 locating clips are circled in red. The CAN connector is green and located in the right upper centre of the dashboard.



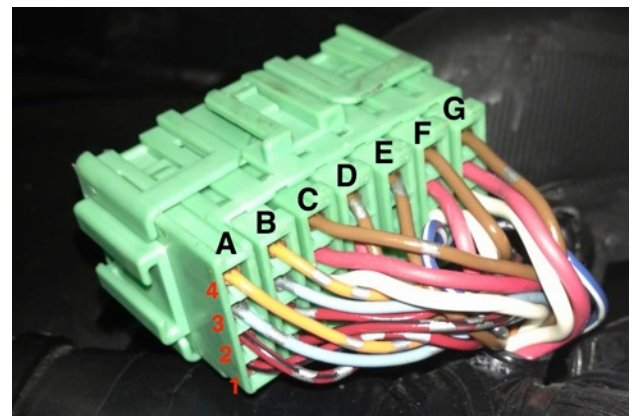
TL CAN bus connector

2. **Accord.** The CAN bus connector is located under the right hand side of the dash. The airbag needs to be removed to access this connector. Make sure the battery is disconnected and do not reconnect until the airbag is replaced. Be sure to follow all Honda mandated safety procedures as documented in the Helms manual.

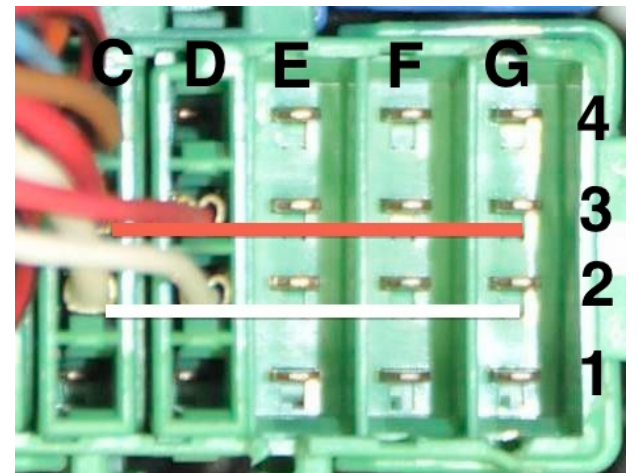


Accord CAN bus connector

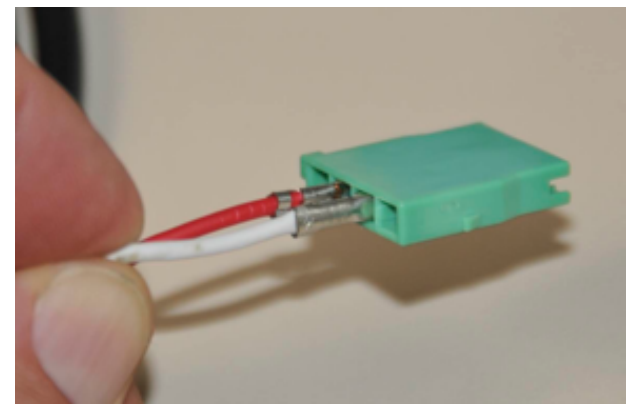
3. General information: The solid red (C3 - G3) and white wires (C2-G2) access the vehicle's CAN bus. It provides communications between the ECU, VSA, dash, TPMS and navigation .



4. Connectors C3-G3 are common. Connectors C2-G3 are common.



5. If connector row G is empty, insert the wires in the supplied green plug and insert the plug into the empty row making sure the red and



white wires line up with those in rows C-F.

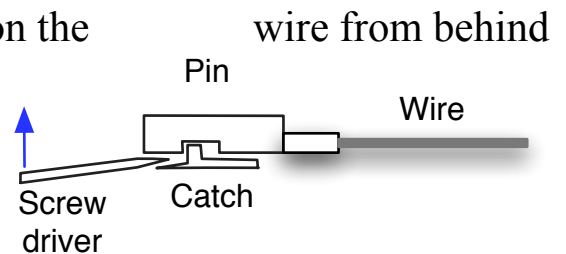
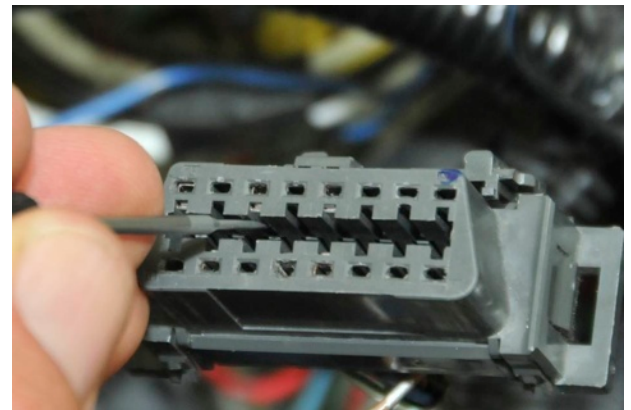
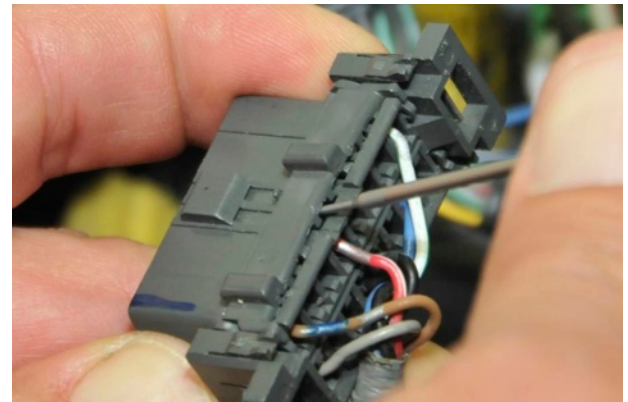
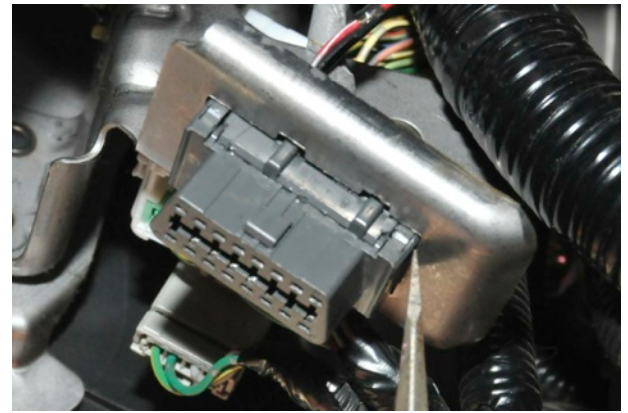
6. If your TL has no TPMS, E2 and E3 will be empty. Insert the red wire into plug E3 and the white wire into E2.

7. Run the other end of the adapter to the DLC. (to the left of driver's left knee)

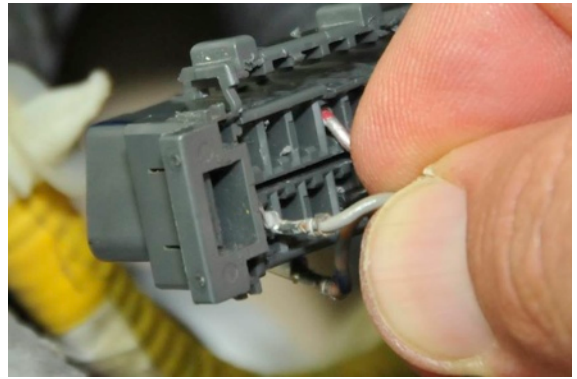
8. Unmount the DLC connector by using a wide flathead screwdriver to press in the clips either side.

9. Use the supplied screwdriver to open the pin release. Slide in the screwdriver and lever upwards. There is a second pin release on the other side of the connector.

10. Remove the grey wire from position 14. Slide the screwdriver into the centre of the DLC connector between the catch and pin and lever off the plastic catch holding pin 14 into place. Then apply a gentle pulling pressure on the wire from behind the connector to remove the wire.



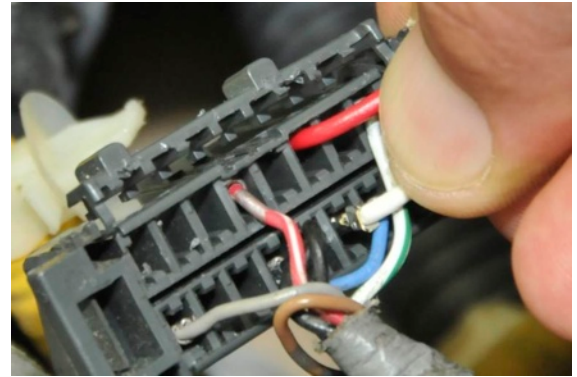
11. Insert the grey wire into position 1. It will only insert in one position. If you are unsure check the orientation of the pins in the same row. Your immobilizer system will still work and the car can still be driven normally. This programming wire is used only to make changes to the immobilizer system.



12. Insert the white wire into position 6

13. Insert the red wire to position 14

14. Close the pin releases and re-mount the DLC connector.



Your vehicle is now ready to be driven to a Honda or Acura dealer to match the immobilizer to your replacement ECU.

06 TL

The 06 TL wiring harness is pin for pin compatible with the 07/08, which means you can simply plug in your donor ECU

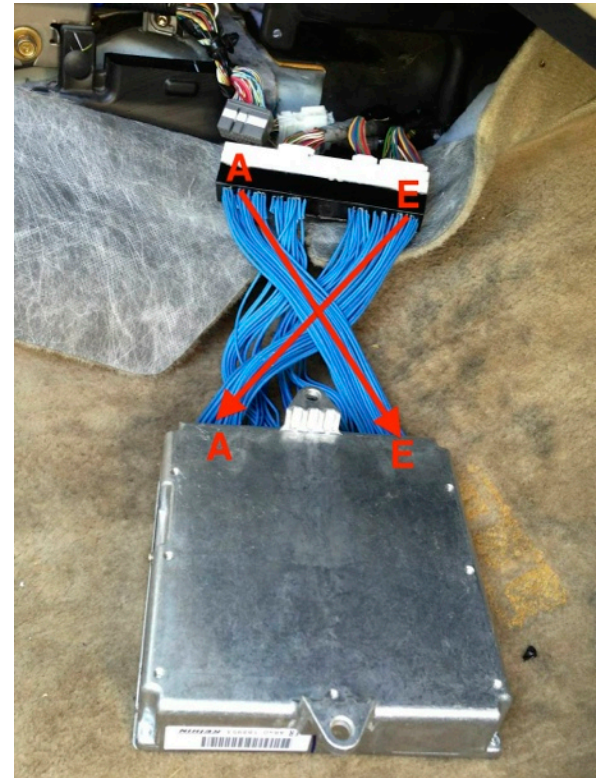
06 TL with NAVI and TPMS

This harness comes with a built in CAN adapter. There is no need to disassemble the dash to access the CAN bus connector. Run the end of the CAN bus cable labeled OBD2 to the DLC connector and follow instructions 8 through 14. The A and E connectors are straight through not reversed as in the 03-07 Accord and 04-05 TL.

ECU replacement.

Tools needed: Philips screwdriver, ratchet 10 mm socket and pry tool.

1. The TL and Accord ECU is located in the centre forward section of the vehicle between the driver's and passenger's footwell.
2. Replace with the 07/08 TL ECU and adapter harness. The adapter harness A and E connectors must be reversed as shown in this picture.
3. Your vehicle will not start until the immobilizer has been reprogrammed. If you are installing a used ECU the dealer will first need to program in the VIN number from your car. Instruct your Acura dealer to perform an immobilizer reprogram with the "Replace ECU" function. Your vehicle can be driven gently on the 07 ECU until the FlashPro is locked and base calibration uploaded.



ECU Adapter cable orientation for 03-07 Accord and 04-05 TL

3. Calibrations. Either open the 04-06 3.2 TL base calibration or, if starting with an 07 TL base calibration, go to Calibration - Misc and make these changes;

Switch off:

Fuel pump control error P0627

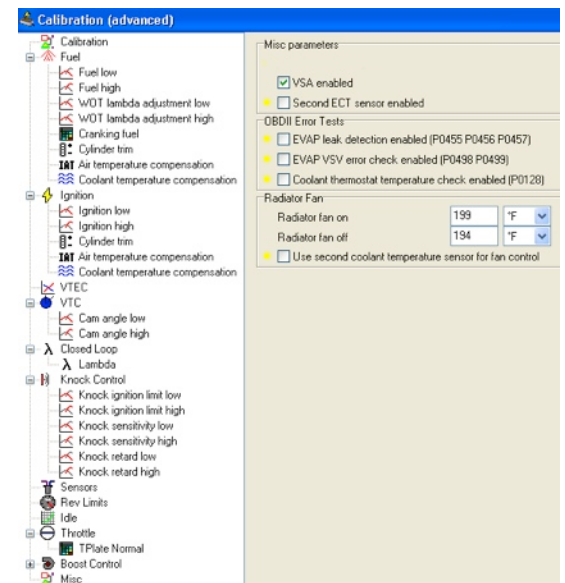
Second ECT sensor

Evap leak error P0455

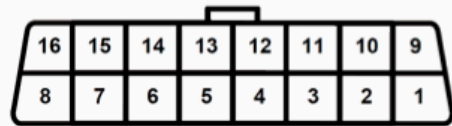
Evap VSV error P0498

Coolant thermostat test P0128

Use secondary coolant temp sensor for fan control



Reference



DLC (OBD2 connector) terminal side

04/05/06TL DLC connector

- 1 —
- 2 —
- 3 —
- 4 BLK Ground for FlashPro
- 5 BLK Signal ground for communication
- 6 —
- 7 BLU K Line Diagnostics
- 8 —
- 9 BRN Service Check Input
- 10 —
- 11 —
- 12 RED/WHT (06 TSX WHT) WEN
- 13 —
- 14 GRY Immobilizer programming**
- 15 —
- 16 WHT/GRN +12V Power for FlashPro

07/08 TL DLC connector

- 1 GRY Immobilizer programming**
- 2 —
- 3 —
- 4 BLK Ground for FlashPro
- 5 BLK Signal ground for communication
- 6 WHT CAN program high**
- 7 BLU K Line Diagnostics
- 8 —
- 9 BRN Service Check Input
- 10 —
- 11 —
- 12 RED/WHT WEN
- 13 —
- 14 RED CAN Program low**
- 15 —
- 16 WHT/GRN +12V Power for FlashPro

Cruise Control Modification for ECUs RDA-A83 through RDA-A84

This modification allows the clutch pedal position to be correctly indicated to the MT program installed in the Auto ECU. Once performed the ECU will not function in sport-shift mode if the FlashPro is unlocked and the AT ECU returned to stock.

Tools needed

- A good pair of eyes or a binocular microscope
- Fine tipped soldering iron
- 3mm length of bare wire

Instructions

- Remove D510
- Solder the 3mm section of wire across the solder pads (J30).

