



CNG CONVERSION SYSTEM INSTALLATION MANUAL

2014-2018 FORD TRANSIT CONNECT 2.5L BI-FUEL DOUBLE CYLINDER (17.8 GGE) LONG WHEEL BASE PASSENGER VERSION

Updated: 10/12/17

PRINT TO SIZE





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NOTE: Disconnect the vehicle battery before install. This includes partial install, servicing, and or maintenance.

- All owner information supplied by Ford must remain with the unit. The incomplete vehicle manual is not owner information and is excluded from this requirement.
- Compressed natural gas is a combustible fuel, flammable and highly explosive.
- CNG is stored under high pressure (maximum of 3,600psi) at 70°F (21°C).
- Tampering with or improperly maintaining the high pressure fuel system can result in fatality or serious injury.
- Never attempt to modify the fuel system and always have the fuel system maintenance performed at an authorized dealership by qualified technicians.
- Exercise extreme caution and follow all related safety guidelines.

Introduction to Installation

Contact Information

Always leave 1/4 tank of gasoline in the tank as not to damage the OEM fuel pump.

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Chemicals and Lubricants

- 1. Silicone lubricant spray is required on all o-rings on fittings.
- 2. Epoxy primer or equivalent to rust proof any exposed metal.
- 3. Ford approved coolant liquid to top off the reservoir.

On Bi-Fuel systems gasoline shall not remain uncirculated for extended periods of time (over 60 days).

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THIS DOCUMENT CONTAINS PROPRIETARY DATA OF ALTECH-ECO AND SHALL NOT BE USED OR DISCLOSED IN WHOLE OR IN PART TO DESIGN OR FABRICATE ANY PRODUCT FOR ANY PURPOSE, NOR REPRODUCED OR TRANSMITTED TO ANY OTHER ORGANIZATION WITHOUT THE EXPRESS PERMISSION OF ALTECH-ECO.

Check list:

- 1. Confirm packing slip to insure that you have received all components, assemblies and sub-assemblies.
- 2. Make sure none of the components and assemblies have been damaged in shipping.
- 3. Pre-inspect the vehicle following the QVM, Q185, and NFPA 52, regulations (Contact ALTECH-ECO for the inspection check list).
- 4. Begin your conversion process.
 - -Cylinder Installation
 - -Regulator assembly installation
 - -Fuel fill installation
 - -High pressure line installation and routing
 - -Low pressure and coolant line installation and routing
 - -Underhood installation
 - -Wiring (Including Switch and gauge) Installation
 - -Decal placement
 - -Fill and leak test
 - -Begin your QC Process
- 5. Check Tire Pressure before test driving.
- 6. Check and fill coolant fluid before starting and test driving.
- 7. Be sure the rear harness is routed properly and is not loose under vehicle.
- 8. Be sure all provided parts are installed.
- 9. Final test drive.



Disconnect the negative terminal on the battery and place a plastic cap on it to protect from accidental contact.



Remember to remove spare tire first and set aside.

Remember to always lubricate ALL o-rings right before component installation.



- 1. Remove the spare tire.
- 2. Remove second row seating and third row seating. Discard bolts and cargo anchor.
- 3. Remove 5 liner clips behind second row seating.
- 4. Measure 9" from where shown and mark.
- 5. Measure 4 1/2" from liner holes and mark.
- 6. Remove the liner. Detach passenger side seat belt before removing liner.











TC2.5INSTALL-LWBDCPASS



- 7. Assemble angle brackets using 1 1/4" (117-H) bolts,1/2" washers (040), and 1/2 nylock nuts (043). Tighten to 75 ft-lbs.
- 8. Place assembled brackets onto the cylinder plate.

 Space the edge of the brackets to the cylinder plate lip by 1 1/2".

 Secure with 1 1/4 bolts (117-H), 1/2 washers (040), and 1/2 nylock nuts (043).

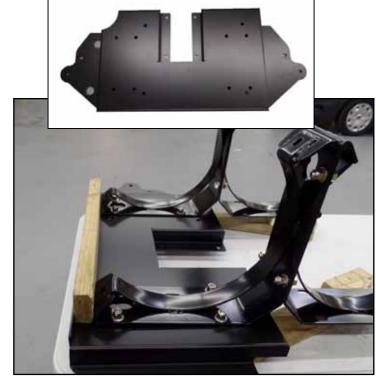
 Tighten to 75 ft-lbs.
- Place assembly into the vehicle.

 Use the assembly as a template for marking drill points. Anchor the assembly with 1 1/2" bolts (330).

 Place riser spacers into place. Mark the drill points.







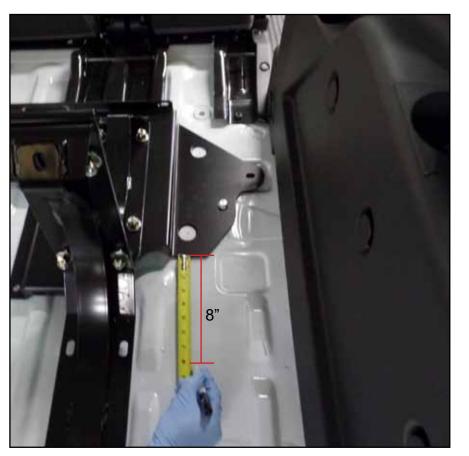


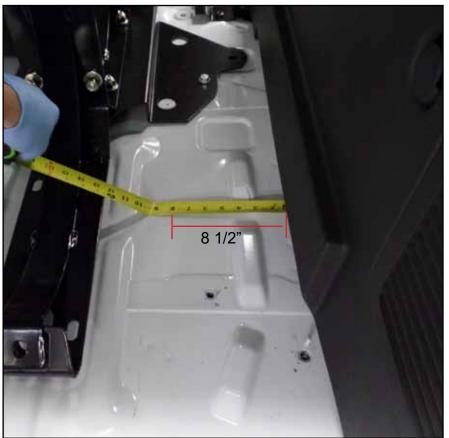


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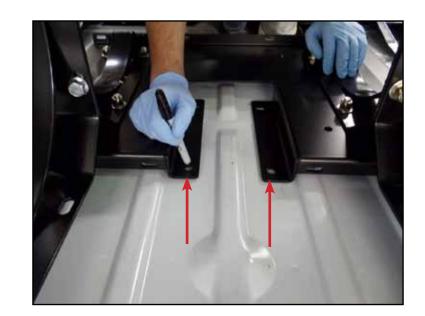


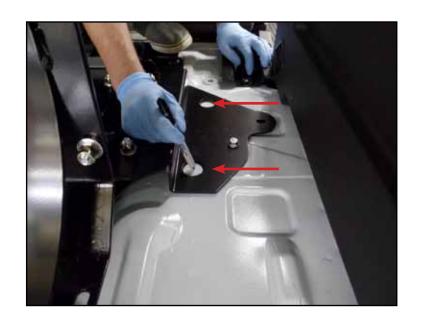
9. cont.. Mark drill points. Remove cylinder plate.













- 10. Verify dimensions.Make six 9/16" holes.Make a hole for PRD tube and wiring hole.Deburr and rust proof.
- 11. From underneath, chisel away the factory sealant (passenger side).
- 12. From center shown. Drill a 2 1/2" hole. USE A STOPPER! DRILL FROM UNDERNEATH THROUGH THE HEAT SHIELD. Use caution, break line underneath. Drill a 1 1/8" hole from the top for the flange adaptor. Deburr and rust proof.









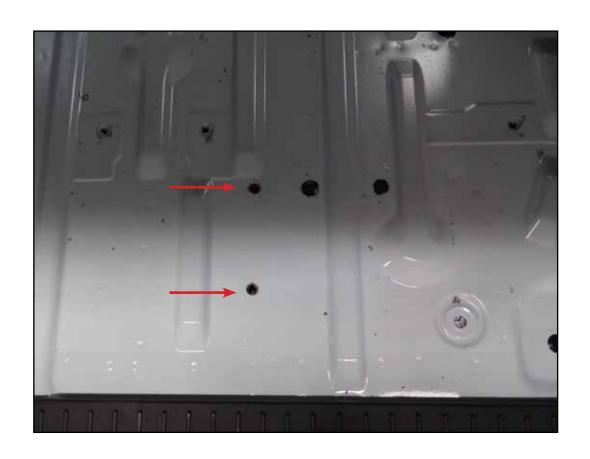


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Use the regulator assembly as a template and mark the drill points.Drill pilot holes first from underneath.Drill 9/16" holes from the top.Deburr and rust proof.







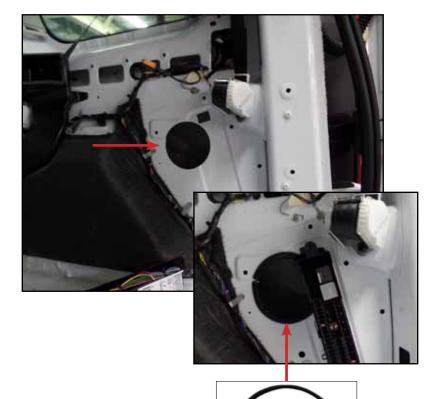
PREPARE FUEL FILL INSTALL

- 1. Remove side panel.
- 2. Detach fuse box.
- 3. Remove and discard OEM grommet.4. Measure and drill a 5" hole.
- Measure and drill a 5" hole.
 Deburr.

Line the hole with trim (AUTO TRIM).















HIGH PRESSURE CYLINDER ASSEMBLY

cont... from page 9..

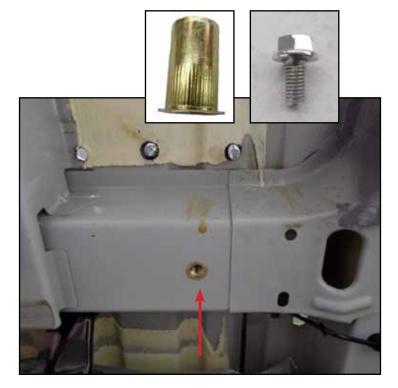
- Install cylinder plate. Secure with 1 1/2" six bolts (330). Secure to 50-60 ft-lbs.
- 15. Place riser spacers (TC4RS-DC) into place.
- Place 3 1/2" bolts (194) into place for the riser spacers.

 16. Enlarge OEM hole to fit a 1/2-13 rivet nut (RN5013200SLR) snuggly.
- Install rivet nut. (Required rivet gun).

 17. Secure double cylinder bracket (TC4BP-DC) with 1" bolt (123) on both sides of the vehicle. Tighten to 50-60 ft-lbs.
- Tighten the 3 1/2" bolts (194) to 70-75 ft-lbs.











HIGH PRESSURE CYLINDER ASSEMBLY

19. Install two 1 1/2" bolts (124-H).
Tighten to 50-60 ft-lbs.
Secure with two 2x2x3/16 spacers (SP2x2x3/16).
Use 1/2 nuts and washers (040) and (043).

INSTALL REGULATOR

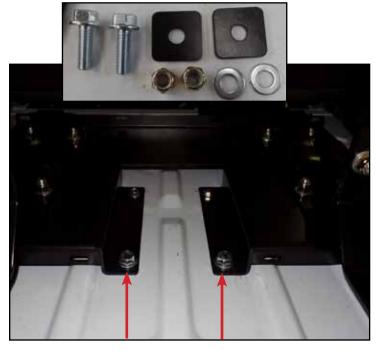
20. Retrieve regulator assembly.

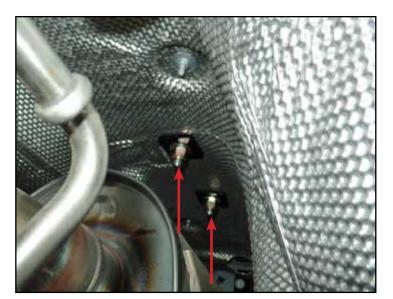
For the 2018 model year, the bleeder valve is located on the coalescing filter, which is part of the regulator assembly.

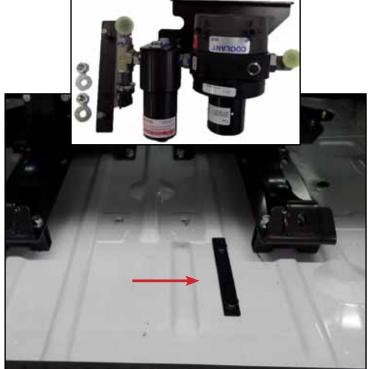
Secure with two M10-1.5 Nylock nut (090) and 3/8 flat washers (025). Tighten to 55-65 ft-lbs.



NOTE: For the 2018 model year, the bleeder valve plug is located on the coalescing filter.









TC2.5INSTALL-LWBDCPASS



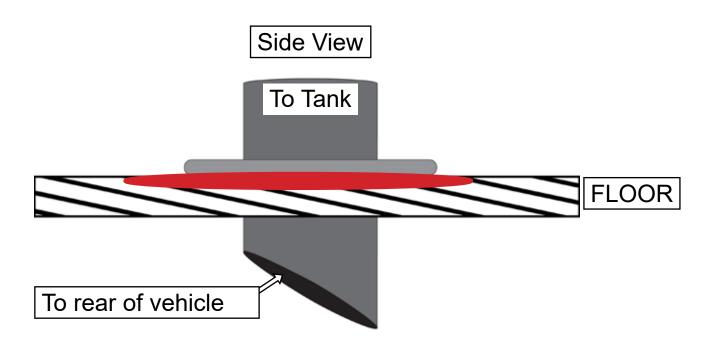
FLANGE ADAPTOR

21. Install flange adaptor.
Position correctly and secure with three 3/4" screws (136-F).



Flange Adaptor









FUEL FILL INSTALL

Measure and mark the drill point.

Drill a 2 1/2" hole for the fuel fill housing install. Recommended to drill a pilot hole and verify the dimensions.

Deburr and rust proof.

Use the fuel fill ring as a template and mark 6 points. Ensure the fuel fill ring is positioned as shown.

Drill six 13/64" holes.

Deburr and rust proof.

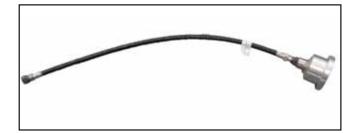
Sub assembly the fuel fill housing.

Discard receptacle nut that is included and use the one included with kit.

Lubricate o-ring.

Tighten to 30-35 ft-lbs.





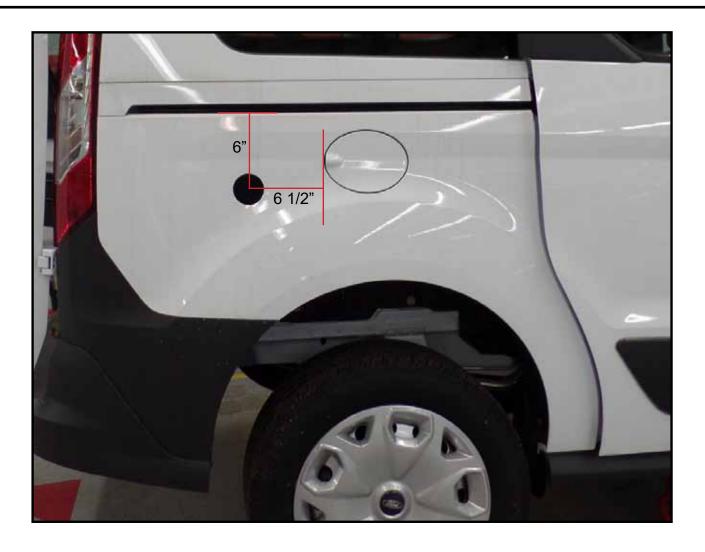












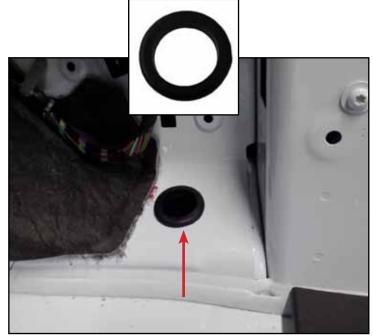


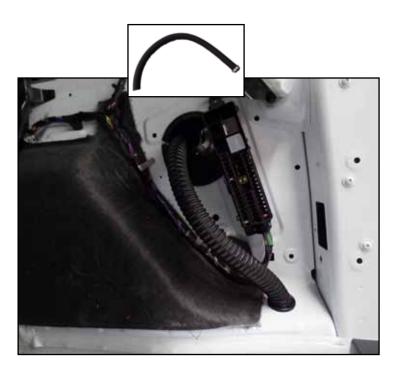
FUEL FILL INSTALL

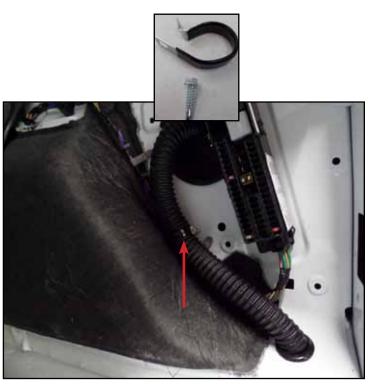
- 4. Install assembly into place and secure with six screws (182) with fuel fill ring on the outside of the vehicle.
 - Place rubber cap back onto the receptacle.
- 5. Install 1 3/4" grommet (1 3/4GR).
- 6. Fit 30" vent hose (VT) over the high pressure hose.
 Ensure 1 1/2" hose clamps (HC1 1/2-H) is on the vent hose. Leave clamp loose until a leak test has been performed.
- 7. Install a 1 1/4" p-clamp (PC1 1/4) onto vent hose and secure where shown with 1" self tapping screw (135-H).
- 8. Re-install side panel. Leave access to fuel fill assembly.











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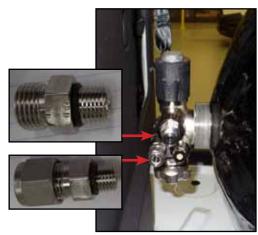
- Install rubber padding onto cylinder brackets. 1.
- Place cylinders into place. Position inner cylinder with solenoid facing down.

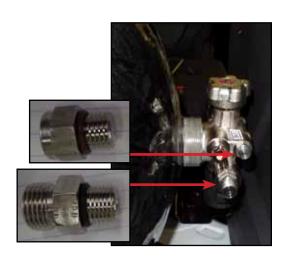
 Position farthest cylinder with solenoid facing up.

 Fit rubber pads onto top cylinder brackets and install over the cylinders.

 Use four bracket bolts and four washers (included with brackets) for securing the brackets on top. Install but do not tighten.
 Use four 2" bolts (147-H), eight kit washers and nuts. Install but do not tighten.
- Install fittings where shown. Lubricate all o-rings and tighten to 30-35 ft-lbs.













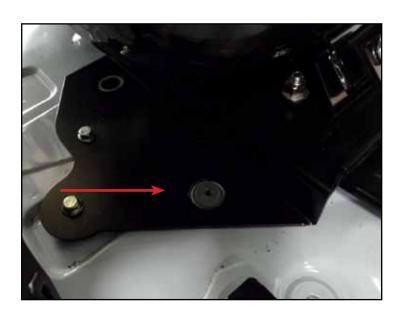


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- Install two PRD grommets (GR16). 5.
- 6.
- Install 20" PRD tube in front. Cap the bottom with a vinyl cap.
 Install 18" PRD tube in the back. Cap the bottom with a vinyl cap.

To tighten, first hand tighten then make a full turn with a wrench and add 1/4 turn.





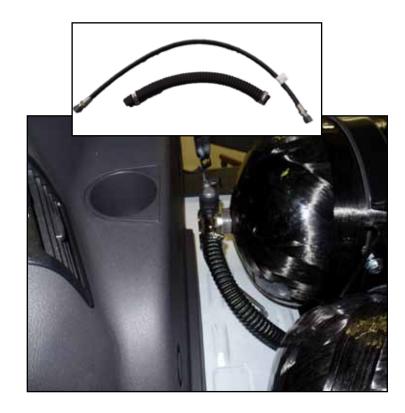




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- 8. Install 36" high pressure hose. Fit a 1 1/2" hose clamp on each end of the vent tube (VT18). Tighten each end of the hose to 30-35 ft-lbs.
 - Tighten the hose clamp on the flange adaptor side but leave the top loose until a leak test has been performed.
- 9. Install 24" high pressure hose and a 36" vent tube with 1 1/2" hose clamps. Leave clamps loose until after a leak test has been performed. Tighten each hose end to 30-35 ft-lbs.
- 10. Install valve cap and 1 1/2" hose clamp. Leave loose until a leak test has been performed.









- 11. For bulkhead connector bracket (TC4BHC-BRK), measure 1" where shown and mark. Drill a pilot hole first.
 - Drill a 9/16" hole. Deburr and rust proof.
- 12. Install rivet nut M10-1.5 (RNM10-1.5).
- 13. Install bulkhead connector bracket and secure with M10-1.5x25 bolt (172). Tighten to 50-60 ft-lbs.
- 14. Assemble the cross assembly. Tighten to 30-35 ft-lbs. Leave the 45 degree fitting loose. Install as shown.







Note: For 2018 model year, the cross assembly will not contain the bleeder valve.





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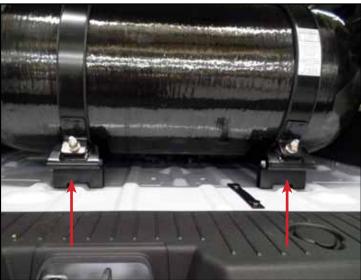


- 15. Connect 11" high pressure hose from cross assembly to regulator. Tighten the 45 degree fitting to 30-35 ft-lbs.
- 16. Connect fuel fill hose to cross assembly. Tighten to 30-35 ft-lbs.
- 17. Tighten cylinder bracket bolts to 45-50 ft-lbs.







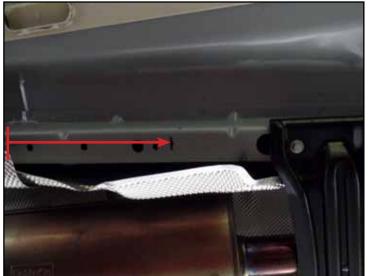




ROUTING

- 1. Loosen the OEM heat shield.
- Driver side from second OEM stud, measure 9" and mark.
- Retrieve 1/4 turn valve and use it as a template. Mark drill point. Drill a 9/16" hole.
 - Deburr and rust proof.
- Install M10x1.5 poly nut (POLYNUT M10). Rivet gun required. Install 1/4 turn valve and secure with M10x1.5x25 bolt (172). Tighten to 50-60 ft-lbs.











ROUTING

6. Run 85" low pressure hose (LPH85-6-EX) from 1/4 turn valve to front of the vehicle.

Lubricate all o-rings.

Connect other end to CNG fuel rail assembly if it has been previously installed.)

Tighten to 30-35 ft-lbs on both ends.

7. Run 113" low pressure hose (LPH113-6-EX) to the regulator.

Fit end with 1 1/4" heat shield (HS1 1/4).

Connect and tighten to 30-35 ft-lbs.

Fit insulator between OEM reinforcement and hose to avoid rubbing.

8. From high pressure, fit the 36" high pressure hose with heat shield and connect to cross assembly.

Tighten to 30-35 ft-lbs.

- Run coolant hoses under OEM heat shields.
 Cut 1/2" off the hose facing inward on the rear of the vehicle.
- 10. Connect the coolant hoses to the regulator.

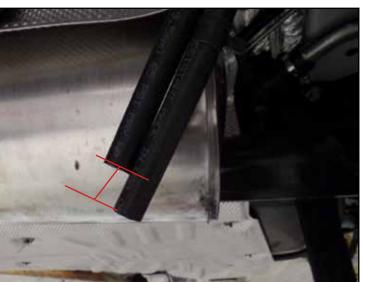












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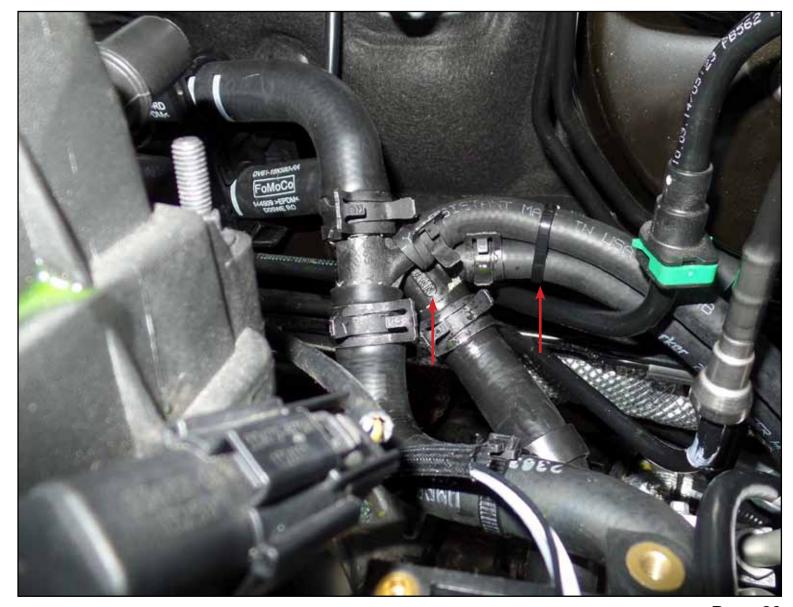
ROUTING

- 11. Run rear harness along side coolant hoses. Connect rear harness to low pressure sensor (If previously installed).
- 12. Do not secure the lines and rear harness until both ends are connected and coolant hoses tapped into OEM coolant hoses.

TAP INTO OEM COOLANT HOSES

- 13. Loosen and put aside OEM plate holding OEM wires.
- 14. Ensure kit coolant hoses are not rubbing against OEM vacuum lines.
 Cut away kit lines if necessary.
 Secure both hoses with zip tie.
- 15. Re-install OEM plate holding OEM wires.
- 16. Re-install any components removed prior to coolant connection under the hood.







SECURING LOW PRESSURE LINE

Install six poly nuts (RN2520165SLR) for the low pressure hose.
 Secure with 3/4" p-clamp (PC3/4) and 3/4" bolts (175-H).
 Connect low pressure hose to the CNG fuel rail assembly (if previously installed, refer to low pressure installation instructions).











AFCM INSTALLATION

Do not use power tools. Exercise safety when installing.

- 1. Remove the two tabs. Make the cut flush with the plastic panel. Do not cut into the panel. Deburr the edges.
- 2. Remove two OEM bolts. These will be reused.
- 3. Below the previous bolts and on the wall, remove OEM nut. This nut will be reused.
- 4. Retrieve AFCM bracket (TC4AFCM-BRK). Install as shown. Slide the bracket between both OEM panels.
- 5. Secure the panel from the top using the two OEM bolts removed previously. Tighten to 20 in-lbs.



Remove these two tabs. Make a clean cut and flush with the plastic panel. Note: Picture displayed is for driver side, this must ONLY be done for the passenger side. **Do not touch the driver side tabs.**











AFCM INSTALLATION

- 6. Secure the extended arm of the AFCM bracket to the OEM stud and secure with previously removed OEM nut. Tighten to factory specification.
- 7. Place two u-nuts (111) into place. Note, the position of nut should be completely vertical (production version), with the open end facing up.
- 8. Install AFCM. Secure with two 3/4" bolts (175-H). Tighten to 90 in-lbs.

If the main harness is already installed, connect the plugs into AFCM and attach fuse box to the extended tab located on the AFCM bracket. Ensure a tight fit.







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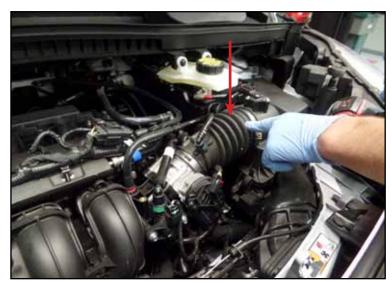
LOW PRESSURE INSTALLATION

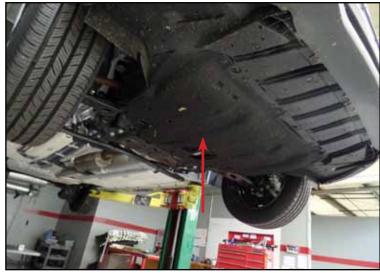
- Disconnect OEM vacuum lines and wiring from air box boot and throttle body and set aside. Remove air box boot.
- Remove splash guard from underneath. 2.
- Beginning at the bottom, remove all intake manifold bolts. Discard the bolts. Remove gasoline fuel rail insulation. 3.

- Disconnect OEM injector plugs.

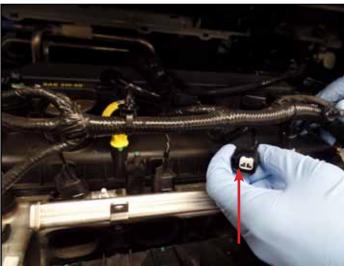
 Detach gasoline fuel rail and set aside. **Do not disconnect from gasoline line!**











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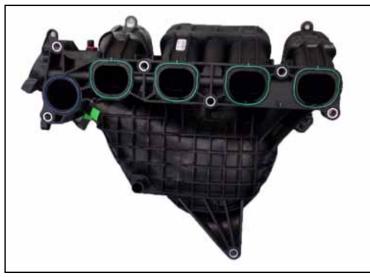
LOW PRESSURE INSTALLATION

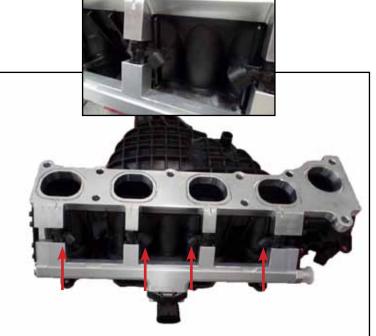
- 7.
- Remove throttle body.
 Remove intake manifold. Ensure to carefully detach vacuum hose attached to the manifold before removing the manifold.
- Use the CNG fuel rail assembly as a template and mark points where a modification will be made to give CNG injectors a comfortable fit.

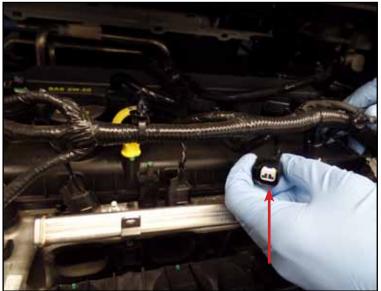
 Modify and deburr.











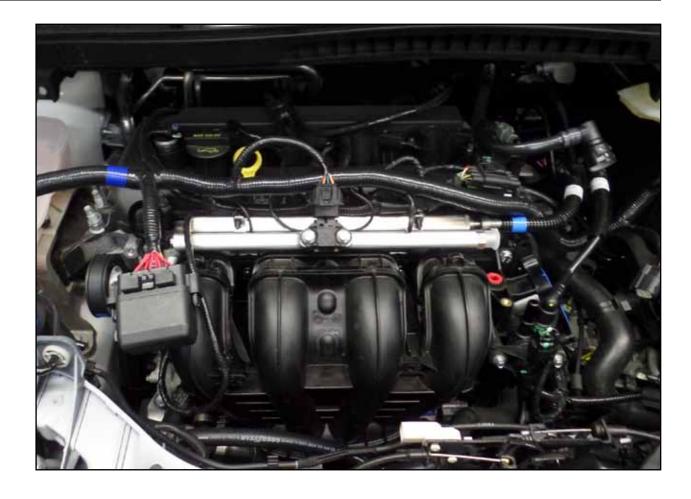


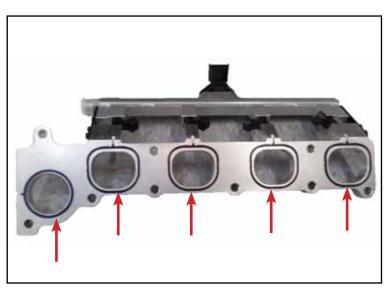


LOW PRESSURE INSTALLATION

- 10. Install gaskets onto CNG fuel rail assembly.
- 11. Install manifold with CNG fuel rail assembly.
- 12. Secure manifold with 2" bolts (193). Use a spacer with a bolt at the bottom of the manifold. Tighten to factory specification.
- 13. Connect CNG main harness to CNG injectors.
- 14. Re-install OEM gasoline fuel rail. Tighten to 75-80 in-lbs.
- 15. Reconnect harness to manifold. Connect CNG harness to CNG fuel rail.
- 16. Re-install throttle body, vacuum hoses, air box boot, and harnesses previously removed.
- 17. Re-install splash guard underneath.

NOTE: the air box boot may need to be removed for wiring instructions. If so, re-install later. The low pressure hose may be connected if not done so previously. Lubricate o-ring fitting and tighten to 30-35 ft-lbs.











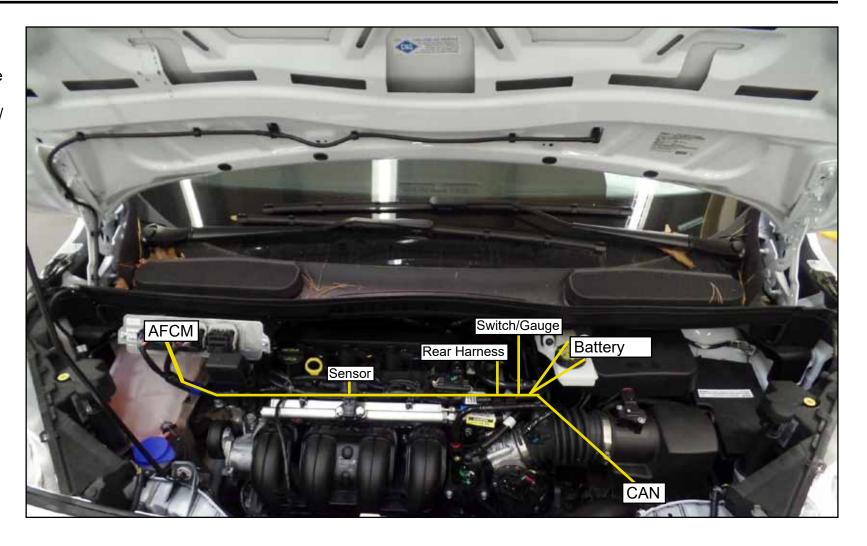
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MAIN HARNESS INSTALL AND CONNECTION

- 1. The main harness should already be attached to the CNG injectors (refer to low pressure install instructions).
- 2. Make all the necessary connections to AFCM, battery, rear harness, can bus, and switch/gauge harness.
- 3. Zip tie areas where there is slack in the harness. Secure to OEM harness.









CAN BUS HARNESS

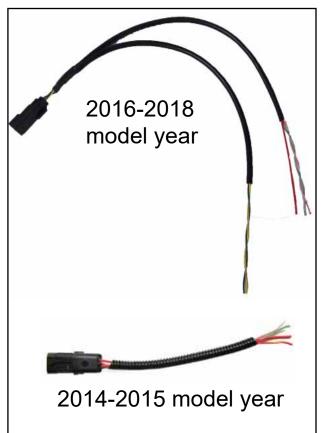
Note: It is recommended to de-pin the wire that you are working on for a cleaner installation. Also, de-pin the four wires one at a time to prevent cross-wiring or incorrect connections.

Locate the "Rear harness and Pin out" sheet for your kit (located on Altech-Eco website).

Note: 2016-2018 model year will contain 5 wires. Follow Pin-Out for connection instructions.

- 1. Remove driver side wheel.
- 2. Remove wheel well liner to expose the PCM location.
- 3. Remove PCM cover and set aside.
- 4. Remove PCM plug.
- 5. Retrieve can bus harness.

Fit the harness through OEM rubber sleeve until harness wires are fully exposed.

















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CAN BUS HARNESS

6. Remove some OEM electrical tape to expose the wires.
Remove plug cap and de-pin appropriate OEM wires (refer to CAN bus Pin-Out). Re-install plug cap once complete.

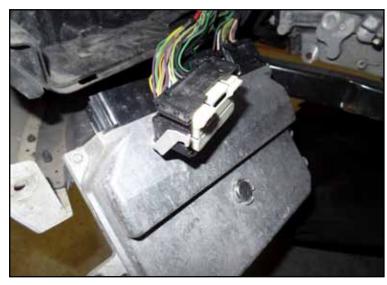
Solder the 3 (5 for the 2016-2018 model year) Can bus wires to the OEM plug (OEM plug located closest to the fender).

Refer to Pin-Out for connection instructions (located on Altech-Eco website).

- 7. Tape the connection points with electrical tape.
- 8. Route the other CAN bus end upwards to the battery housing.
- 9. Zip tie where needed and connect to main harness. Zip tie to OEM harness.

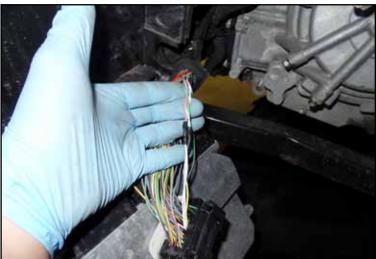














CAN BUS HARNESS

- 10. Re-install PCM, secure the cover.
- 11. Re-install wheel well liner.
- 12. If air box was removed prior to install, re-install air box and reconnect any OEM wires and vacuum hoses removed prior.
- 13. Install the wheel.











SWITCH / GAUGE INSTALL

- Loosen the trim and set aside. 1.
- Remove column panel.
- 3.
- Remove side dash panel.
 Remove this part of the insulation underneath the steering column. Expose plastic cap.









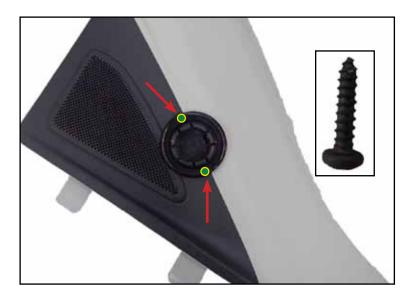


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FUEL SWITCH / GAUGE INSTALL

- Remove plastic cap. Modify by creating a 3/4" hole through the center.
 Insert switch gauge harness through. Ensure the plug side will be facing the engine after running the harness through. Secure the grommet onto the plastic cap.
 Run the gauge harness up to the battery compartment and attach to main harness if previously installed.
 Retrieve the gauge assembly. Apply adhesive sticker onto gauge pod base.
 Position the base as shown onto the column and secure with two screws (232).
- 7.















FUEL SWITCH / GAUGE INSTALL

- 9. Modify the column with a hole big enough to fit gauge part of the harness through. Deburr.10. Re-install side dash panel and trim.

- 11. Fit gauge with movement resistant band.
 12. Slide the gauge harness through the pod and connect to the gauge as shown.
 Secure the connections. HAND TIGHTEN ONLY! Over tightening will sever internal connections.
- Install gauge with pod into base.













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FUEL SWITCH / GAUGE INSTALL

- 14. Using a flat head screw driver, remove OBD II port.
- 15. Insert gauge connector into pin 13 and re-install OBD port back into place.
- 16. Remove panel beneath the steering wheel.
 Use provided template and cut out area for the switch. Deburr.
 Connect and install switch. Refer to diagram provided for connections.
- 17. Re-install panel back into place.

DEDICATED ONLY

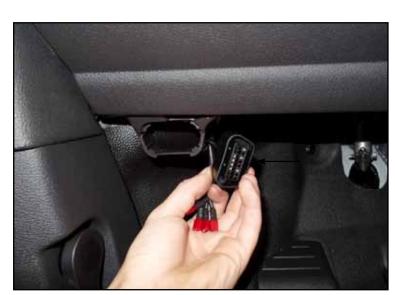
Dedicated will not require a switch install. A light will be installed indicating CNG operation.

- 1. Drill a 9/16" hole to fit the indicator. Deburr.
- 2. Use a mini jumper wire to connect Black and Black/green wires.
- 3. Install indicator.













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CYLINDER COVER INSTALL

 Modify floor liner as shown. Keep the outside pieces and discard the rest. Install each piece into place.











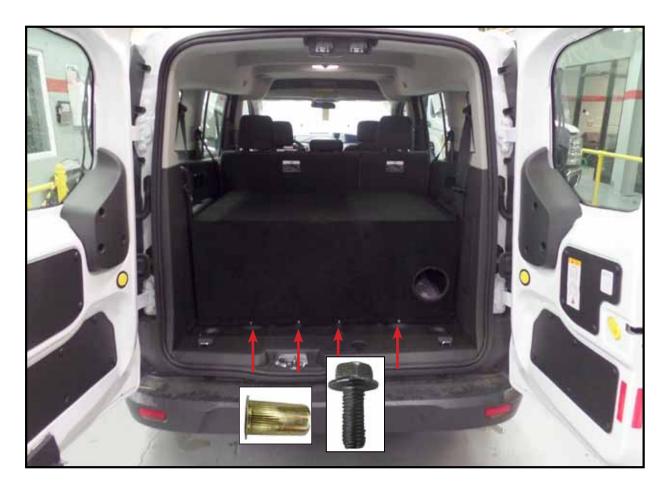
CYLINDER COVER INSTALL

- 2. Place cylinder cover over the cylinder(s). Ensure a leak test has been performed and all proper labels placed in appropriate areas before officially installing the cover. Refer to each section for instructions.
- installing the cover. Refer to each section for instructions.

 3. Place u-nut (111) into place and secure with six 3/4" bolts (175-H). For the rear, install 1/4-20 poly nuts (RN2520165-SLR).











DECALS

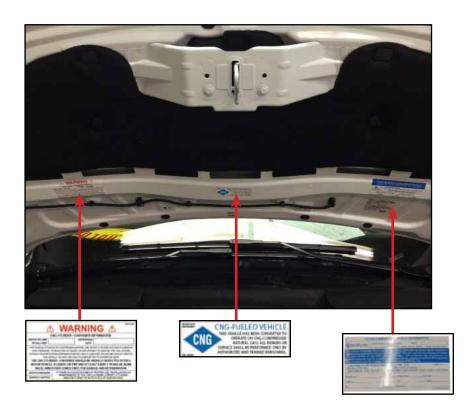














DECALS



















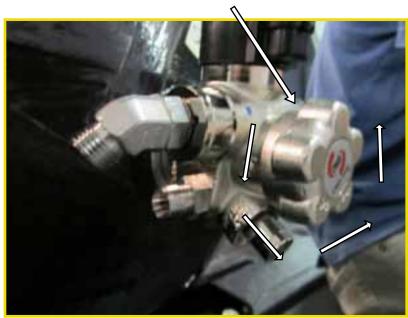
LEAK CHECKING THE SYSTEM

After the Altech-Eco CNG system has been installed on the vehicle, all fuel connections, fuel rails and injectors must be checked for leaks. Also check the overall installation of wiring, zip ties and components to make sure they are not loose or hanging.

Tools:

- Soapy Water Solution or Liquid Leak Check Solution
- Combustible Gas Leak Detector TPI 721 (Davis Instruments)
- Basic Hand Tools
- 1. Close the valve by turning clockwise and pressurize the system.
- 2. Leak test using bubble soap and or a methane detector.
 - a. PASS: Continue to step 3.
 - b. FAIL: Depressurize the system and correct the issue before continuing.
- 3. Open the manual valve on the fuel tank. Using your hand, rotate the manual valve counter clockwise until fully open.
- 4. Fill the tank with CNG.
- 5. Check and verify that all installed hoses and fittings are not loose and are secure per torque specifications.
- 6. Double check and verify wiring is correct and secure with nothing hanging loose. Check that zip ties are snipped properly to avoid potential injury.
- 7. Pressurize the system by turning the ignition on but do not start the vehicle. This opens the solenoid and fills the lines.
- 8. Shut off the CNG at the cylinder (tank) manually (manual shut-off valve is located on the tank).
- 9. Use a methane detector, bubble soap, or other approved means to leak test all hoses, lines and fittings at connection points.
 - a. PASS: Continue to step 8.
 - b. FAIL: Turn off the vehicle ignition and double check that you have performed the manual shut-off on the cylinder (tank) valve. Locate any leak(s). Then, depressurize the system and correct the issue before continuing the leak test. Correcting a leak may simply require tightening (re-tightening) the hoses, lines or fittings. If a leak cannot be corrected, notify the appropriate personnel for further instructions.
- 10. Turn the ignition off, then back on and start the engine. This is to pressurize the lines again. While the engine is running, perform a leak test by using a methane detector, bubble soap, or other appropriate means.
 - a. PASS: Complete required paper work and notify your supervisor.
 - b. FAIL: Turn off the ignition and manually shut-off on the cylinder (tank) valve. Depressurize the system and correct any issues. After all corrections have been made, open the manual shut-off valve and start the engine. Run the leak test again. For un-repairable issues, notify appropriate personnel for further instructions.
- 11. Third party installers: After completing the final checklist, it is required that an original or a copy of the entire completed checklist be sent to Altech-Eco. Failure to do so will void the warranty and may result in suspension of installer's license. For additional information, contact your supervisor.

Open manual valve counter-clockwise until fully open.



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