TUNDRA -5.7-
S
UPERCHARGERS



VT-twin-screw mechanical booster

Important tips

1. Before installing this booster kit, please read the installation manual in detail, quickly check the parts and confirm that the kit is complete. For missing parts or shipping damage, please contact your dealer immediately.

2. This booster kit is suitable for use on the track and is strictly prohibited on ordinary roads. Please follow the local traffic rules.3. This booster kit is only applicable to the factory state of the vehicle. If there is any change to the vehicle, please consult the dealer for technical support. To ensure the smooth installation of the booster kit.

4. This booster kit only as power upgrade kit, for track, desert, wading, gobi extreme sports, should need to the booster kit intake, engine lubrication, cooling system, the original upgrade (intake waterproof measures, sand dust measures, desert environment temperature, high engine load for a long time, to strengthen the heat dissipation system), or consulting dealers to give corresponding technical support, to ensure the normal operation of the engine.

5. The supercharging kit is designed specially for the factory state of this model. Any adjustment to the intake channel, exhaust channel or other engine parts after installation may adversely affect the engine performance and may trigger the "Check engine" lamp.

6. Proper installation of this booster kit requires general automotive mechanical knowledge and experience. If the conditions are not met, please contact the dealer to arrange the professional personnel for the installation.

7. Run at least one tank of premium fuel (95 # gasoline and above) before installing the booster kit to prevent damage to the engine due to knock from running the pressurized engine with lower octane fuel.

8. Before installing the booster kit, please remove the original vehicle fault code. In order to avoid the vehicle in a fault protection state, affect the work of the engine computer, and then affect your driving experience, or cause unnecessary damage to the engine.9. Do the basic engine checks before installing the machine boost:

* Replace the air cleaner
* Replace the fuel filter depending on the mileage
* Use brand full synthetic oil
* Change the engine oil filter

* Check the ternary catalyst for blockage or damage

* Check for the spark plugs

10. Before the first use, it is recommended to replace the spark plug of the original car, and choose the spark plug with a higher calorific value (one degree higher than the original car, choose the genuine product).11. Make ify the engine is cooled before installing the boost kit. And make the necessary protection of the appearance of the vehicle.12. It is recommended to clean the throttle to prevent the engine from idling.

13. The water cooling circulation system of this product does not contain antifreeze, and the user shall choose the corresponding specifications of antifreeze according to the use environment.14. The installation of this booster kit may void the original 2-year / 60,000 km warranty. If you continue installing, you know.

Safety precautions

Read important safety precautions and warnings before continuing the installation!

Correct disassembly, installation methods and procedures are critical to the personal safety of the kit installer. Failure to follow these precautions resulting to improper installation may lead to personal injury or death.

1. Always wear safety glasses to protect your eyes

2. Place the ignition switch in the disconnect position and

disconnect the battery to prevent short circuit and battery

damage caused by accidental contact. 3. Always use the parking

brake when working on the vehicle

4. Block the front and rear tire surfaces to prevent the accidental movement of the vehicle

5. operate only in well-ventilated areas to avoid exposure to carbon monoxide

6. Do not smoke or use flammable goods near the fuel system

7. Keep your hands and other objects away from the radiator fan blades

8. Keep yourself and your clothes away from the moving parts while the engine

is running

9. Do not wear loose clothes or jewelry to avoid being caught by rotating or moving parts

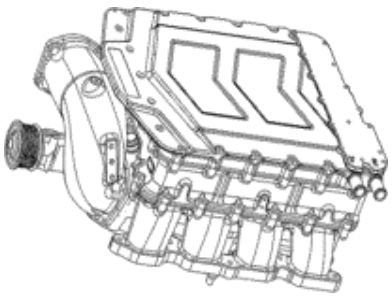
part number:

Suite content

order number	content	code	quantity
1	The VT supercharger assembly	AN 3FT 1C 01AB	1
2	accessory bag A	AN 3FT 1C02AB	1
3	accessory bag B	AN 3FT 1C03AB	1
4	accessory bag C	AN 3FT 1C04AB	1
5	accessory bag D	AN 3FT 1C05AB	1
6	accessory bag E	AN 3FT 1C06AB	1
7	accessory bag F	AN 3FT 1C07AB	1
8	accessory bag G	AN 3FT 1C08AB	1
9	accessory bag H	AN 3FT 1C09AB	1
10	accessory bag I	AN 3FT 1C10AB	1
11	accessory bag J	AN 3FT 1C11AB	1
12	accessory bag K	AN 3FT 1C12AB	1
13	accessory bag L	AN 3FT 1C13AB	1
14	accessory bag M	AN 3FT 1C13AB	1

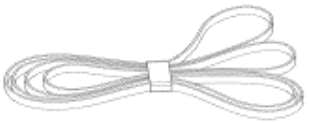
VT Supercharger Assembly (AN 3AM 1B 01AB)

order number	content	quantity



accessory bag A(AN 3FT 1C 02AB)

order number	content	quantity
1	Generator belt	1



accessory bag B(AN 3FT 1C 03AB)

order number	content	quantity
1	Gasoline * * * * * * (not present)	1

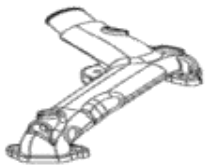
accessory bag C(AN 3FT 1C 04AB)

order number	content	quantity
1	Inert wheel bracket	1
2	Belt transition wheel (RW 49071)	1
3	Outside the idler fixing screw (m 10x 1.5x 45)	1



accessory bag D(AN 3FT 1C 05AB)

order number	content	quantity
1	Engine water pipe	1

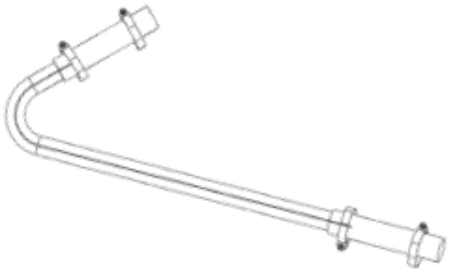


Attachment Package F (AN 3FT 1C 07AB)

accessory bag E(AN 3FT 1C 06AB)

order number	content	quantity
1	Thermoat pipe clamp (16-20 clamp)	4
3	ϕ 12mm, caliber water pipe	2

order number	content	quantity
12	Custom water cooling • Water pipe A	1
13	Customized water cooling • Water pipe B	1
14	Custom water cooling • Water pipe C	1



	15	Custom water cooling • water pipe D	1
	16	Custom throttle Φ 8 water pipe	1
	17	Custom brake vacuum trachea	1
	18	Custom engine (exhaust pipe)	



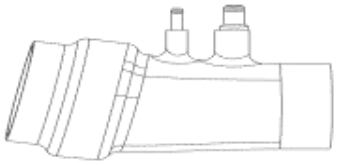
accessory bag G(AN 3FT 1C 08AB)

Serial number contents	quantity
1 Machine filter tube (stainless steel)	



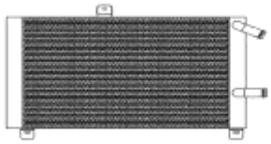
Attachment Package H (AN 3FT 1C 09AB)

Serial number contents	quantity
1 Custom bellows intake pipe	1
3 Oil pressure control valve connector	1



accessory bag I(AN 3FT 1C 10AB)

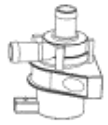
Serial number contents	quantity
1 The radiator	1
2 prado 27 water tank buffered rubber pier	2





accessory bag J(AN 3FT 1C 11AB)

order	cont	quan
1	water pump	1
2	Pump line	1
3	15A, and the Fuses	2
4	Kettle (with a cover)	1









accessory bag K(AN 3FT 1C 12AB)

order number	content	quantity
1	Hot water pipe screw (double head screw m 6x 1.0x 30)	1
2	The m6 nut	1
3	Radiator set screw (outer m8x.1.25x25)	1
4	m 6x 1.0x 20	1
5	Water pump screw (inner m 6x 1.0x20)	1
6	Kettle fixing screw (outer M 6X1.0X10)	4
7	m 8x 1.25x 15	4
8	Radiator sleeve (11MM)	1
9	Throttle hose clamp (13mm 15m m max when relaxed)	4
10	Aluminum joint of m 8 (throttle)	2
11	Idler support screw (inner m10x1.25x80)	2
12	(Internal m 8x 1.25x 75)	1
13	The m 6 vacuum plug	1
14	16-27 clamp	8
15	Hot water pipe screw (double head screw m 6x 1.0x 30)	1

accessory bag L(AN 3FT 1C 13AB)

1	Kettle bracket	1
2	Pump support	1





accessory bag M(AN 3FT 1C 14AB)

order number	content	quantity
1	ribbon	1



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Section 1: Preliminary preparation



1. Remove the battery negative electrode with a 10mm wrench. The battery is located in the front left area of the engine compartment. With the 10 mm socket wrench, release the two nuts indicated by the arrow. Take the battery out. This will make room for the installation kit.

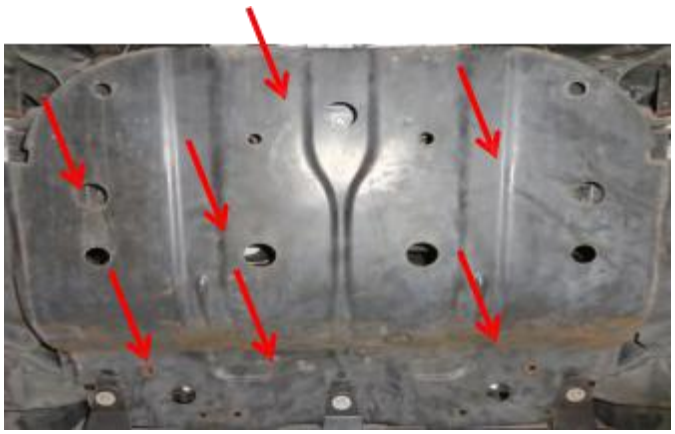


2. Release the fuel pressure by removing the fuel cover. After the pressure is lifted, reinstall the fuel cover. Wipe oil with detergent to provide "Advanced Fuel only" label to displayed area.



3. Remove the bonnet. Lift the lid in front, but then pull it forward from the firewall.

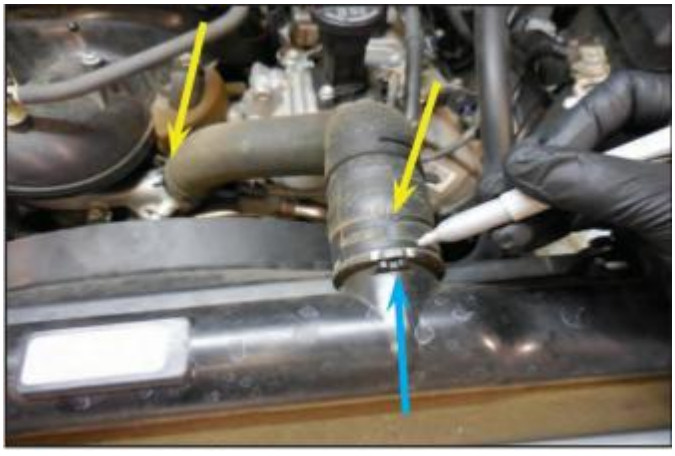
Section 2: Coolant drainage



1. Remove the guard plate screws indicated by the arrow and remove the guard plate.



3. Drainage the cooling system completely before removing any hoses. This will take about 15 minutes to fully empty. Complete the next step. To speed up the process.



5 . Remove the cooling hose on the engine. Cclips indicated by yellow arrows. Mark the end of the hose in the blue arrow area to indicate that this is the side of the radiator. This hose will flip over when it is reinstalled later.

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(Let the engine cool before discharging any liquid)



2. Open the drain screw at the position indicated by the arrow (lower left corner of the radiator). Emission coolant. Prepare a clean bucket and collect the cooling liquid. So that it can be reused.



4. Remove the tank cover to help the coolant discharge faster. After the coolant is completely drained, reopen the lid, and tighten the drain screws.



6. Place some rags under the hose joint at the junction to prevent the coolant from touching the belt / pulley. Remove the hose on the radiator on the engine.



7. Block the coolant hose with a clean towel to prevent anything from falling in.

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Seal it with adhesive tape

Section 3: Intake manifold removal



1. Release the two hose clips fixing the intake pipe with a 10mm sleeve or screwdriver.



2. Disconnect the vacuum pipe and the exhaust gas ventilation pipe at the position indicated.



3. Remove the inlet hose assembly.



4. Disconnect the exhaust gas ventilation hose from the right valve chamber cover (shown by the yellow arrow). Then remove the air duct.



5. Disconnect the vent hose from the left valve chamber cover (shown by the yellow arrow).



6. Remove the exhaust gas ventilation hose assembly on the engine. Reinstall the bolts removed from the previous step to the corresponding position.



8. Disconnect the brake hose as indicated by the arrow. This is located on the right rear of the engine. Slide the clip backward with pliers before pulling the hose.



6. Remove the two mounting bolts as indicated by the arrow.



7. Disconnect the carbon tank and connect the hose. It is located on the right side of the intake manifold before pulling the hose and sliding the clamp backward.



9. Remove the engine sound insulation foam from the right side of the engine.

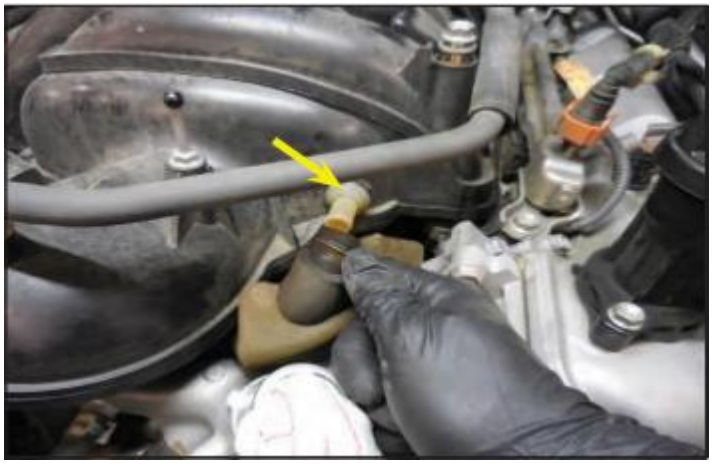
TUNDRA -5.7-SUPERCHARGERS



10. Remove the engine sound insulation foam from the left side of the engine.



11. Disconnect the illustrated VSV and ACIS, wire harness plug.

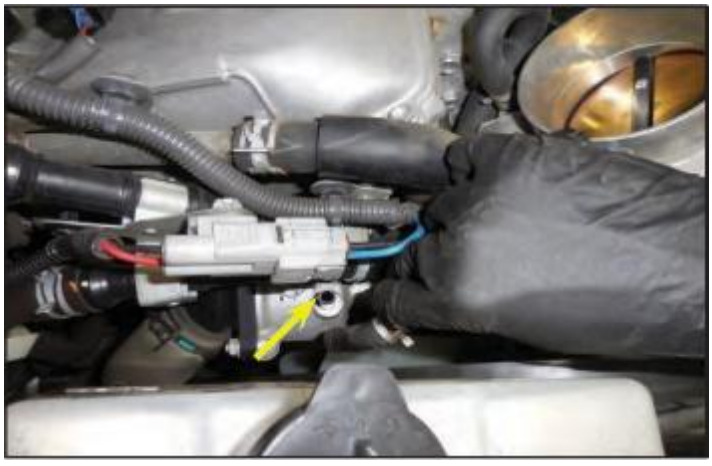




12. Disconnect the ventilation hose as shown in Fig. Squeeze the snap buckle and pull back the hose simultaneously.12. Disconnect the wiring harness plug of the throttle valve body



13. Disconnect the coolant line at the position indicated. Slip the backward with pliers.



14 Disconnect the second coolant hose as indicated by the arrow.

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15. Use a 10 mm sleeve to remove the four fixed throttle bolts. Keep these bolts intact.





16. Remove the throttle valve and disconnect the connection hose from the engine. Save these for use on the supercharger.

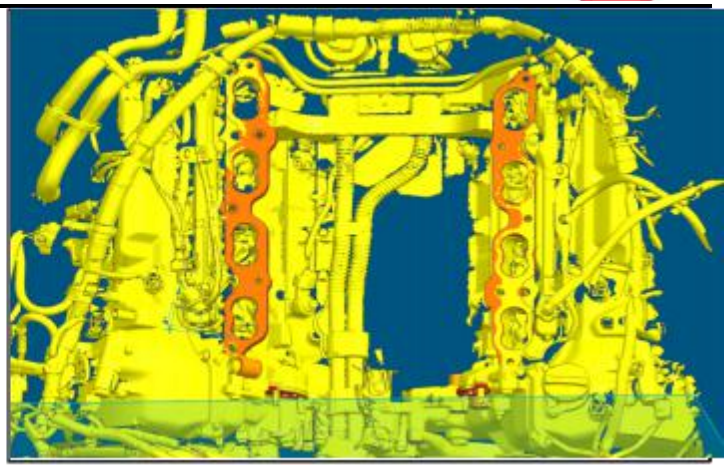
17. Note: This step applies only to 2014 + open roads.
If you have a smooth road in 2007-13,
Ignoring this step. As shown by removing the scaffold, the first
Remove the yellow arrow cap shown by the nut-then
Remove the bolts indicated by the red arrow. This is located in
Left rear corner of the intake manifold.

18. Use a screwdriver to pinch the harness from the bracket at

19 Use a 12mm sleeve to remove 2 nuts and 8 bolts to fix the manifold. Save these for later use.

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18. Use a screwdriver to pinch the harness from the bracket at

19 Use a 12mm sleeve to remove 2 nuts and 8 bolts to fix the manifold. Save these for later use.

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21 Now use towels to clean around the suction port.

Use a vacuum cleaner to suck up the debris around the suction mouth.



23. Use a 14 mm tool to move the tensioner (located in the yellow arrow) to remove the original car belt.

20. At the back of the manifold, there are two clips, one of them
A harness. Before pulling out the intake tube Remove the wiring harness from above. Remove the intake manifold and place it in one edge. Some parts in the manifold will be reused.
(Be careful not to damage it when removed from the engine
Washer at the bottom of the manifold.)



22. ape tape the port to prevent anything from falling in. It is very important not to pollute your working environment, or to allow it
For any debris to fall into the exposed port, or else engine damage may occur.

Section 4: oil loose water pipe and joint replacement



1. Refer to the Owner's Manual for proper lifting of the vehicle and tire removal.



3. Remove the two nuts and two bolts that secure the air-conditioning compressor to the engine. One of the bolts was masked in the photo. Remove the compressor from the engine while keeping the compressor on both studs. No need to remove the compressor.



5 Collect the disconnected coolant from the two coolant hoses. The last step. Remove the water pipe.

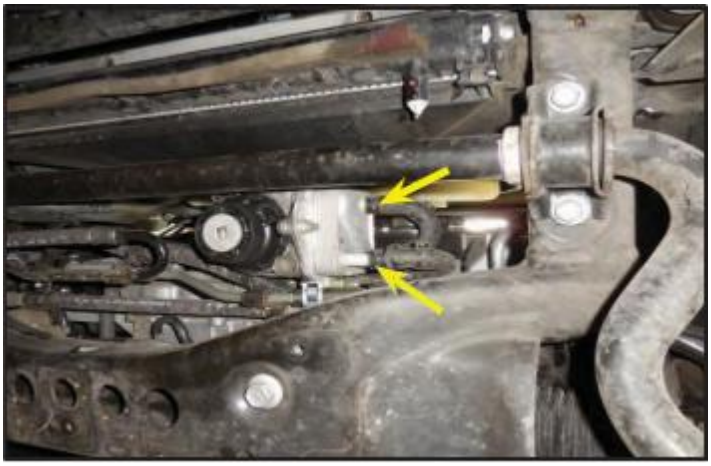
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2. As the left front wheel is removed, you will be able to remove the panel displayed FL to enter the air conditioning compressor.



6. Remove the hose after disconnecting the two clips



4 . Remove the coolant hose from the oil cooler, as shown by the arrow in the figure. Prepare a container to collect the coolant that will be discharged from these hoses. Note: The picture looks up from the bottom of the vehicle.



7. Disconnect the hose as indicated by the arrow.



11. This is a better view of the oil cooling pipe. Only hoses and clips will be reused in later steps



9. Remove the fixing bolts for the other two fixed oil radiator pipe assemblies (as shown).



8. Use a 10mm wrench to remove the bolts before the coolant. And the bracket. This will not be reused.



10. Remove the loose hot water pipe assembly as shown in the figure. You may need to move the air conditioning compressor further away to remove the pipe
space. Also make sure that the hose at the bottom of the tube is not stuck with anything



12. Remove the front heat insulation engine foam

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13. Disconnect the coolant from the arrow Tube.



13. Unplug the water temperature sensor.



14. Note: This step applies only to 2014 + open roads. If you have a 2007-1 3 model, ignore this step. Disconnect the two heater hoses at the yellow arrow. Rotate the clip on the PCV valve (shown by the red arrow) to one side to allow more clearance to the supercharger.



15. Remove the four nuts fixing the coolant cross tube. Two are covered in this picture. The nuts and washers will be reused.



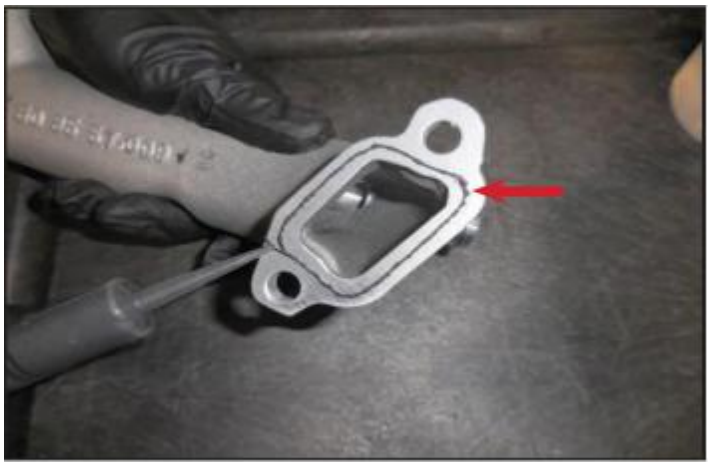
16. Remove the ventilation hose as shown in Fig. This will be replaced in later steps.



17. Clean the coolant liquid cross-mounting surface with a clean cloth. Make sure the surface is free of any debris or old washer material.



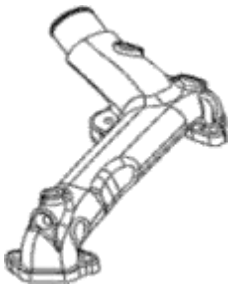
19. Remove the hose shown in Fig. Will be reinstalled later on



21. Apply the sealant thin to the crossed surface of the supplied coolant.



18. Check the original O car washer and install them in the original position. If there is any damage, please replace it. Ensure that two spacers are installed.



20. Remove the replaced coolant cross tube



.2522. Install the supplied coolant cross tube and secure it with the supplied m 8x 1 x 20 bolts. Make sure the original car washer is reused to seal the coolant cross tube.



23. Remove the hose section from the coolant cross pipe. This will be reused.



24. Reinstall the hose over the coolant supplied with the previous clamp



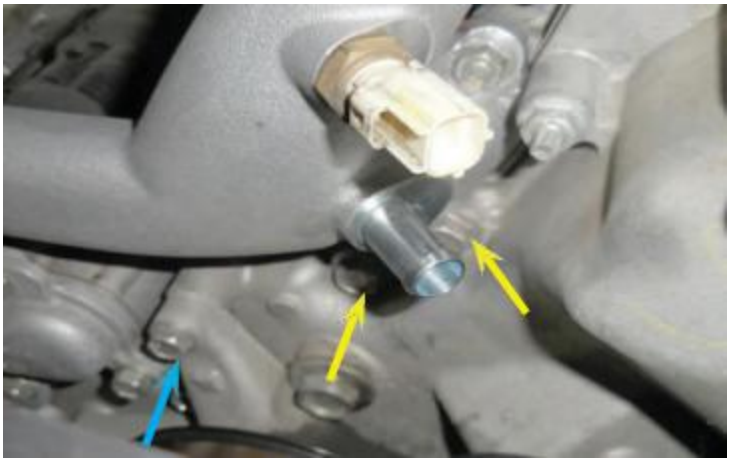
25. Remove the temperature sensor from the coolant cross tube using a 19 ″ wrench



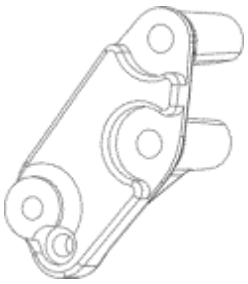
25. Ensure that the copper washer is installed in place before attaching the copper washer to the supplied coolant cross pipe.



26. Install the temperature sensor as shown.



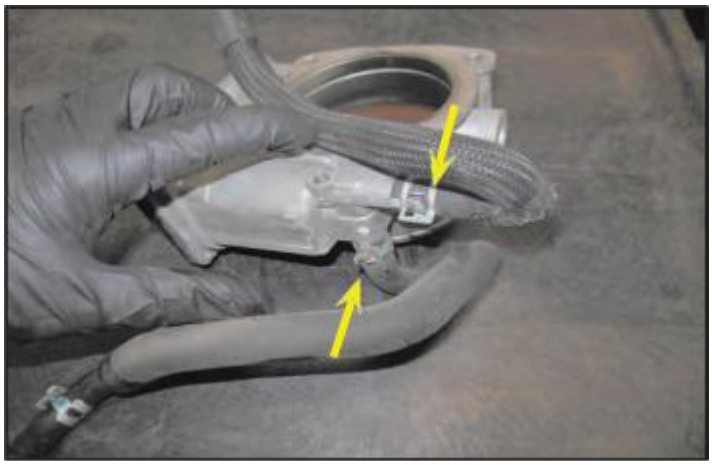
27 Use a 12mm outlet to remove the bolts indicated by the blue arrow. Use the 14mm sleeve to remove the bolts of the two yellow arrows on the timing chain cover. Remove the three bolts.



28. Remove the guide wheel bracket fittings



30. Twist the guide wheel support of the supercharger



32. Remove the hose clip and the hose displayed on the throttle. These will be reused, but in different configurations.



29. From the previous step, install the provided support and bolts to the empty hole.



31. Reinstall the coolant hose (as indicated by the arrow, highlighted in red). Pass the hose through the idler holder as shown. Make sure the clamp are rotated to the side to allow clearance for the supercharger.



33. Note: This step applies only to 2014 + open roads. If you have 200713 resumes, ignore this step. Connect both hoses with a connector in the suite (the lines are original)

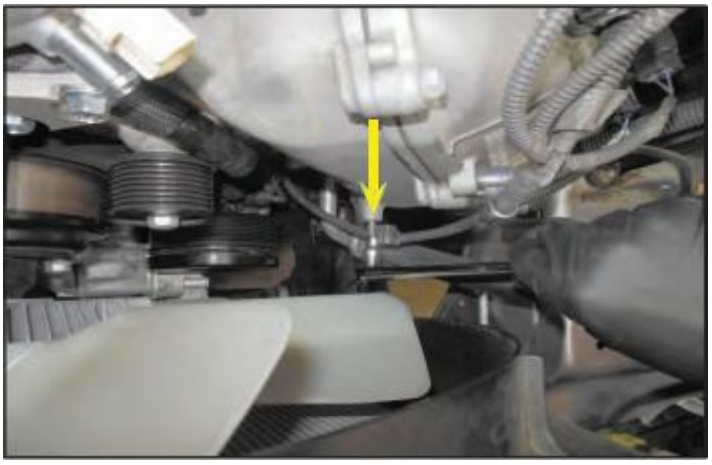
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34. Note: This step is only applicable to the 2014 + Tundra. If you have a 2007-13 car, ignore this step. Connect the two hoses using the connector in the kit.。Connect to the throttle later in the step.(Rear with throttle extension tube 40cm)



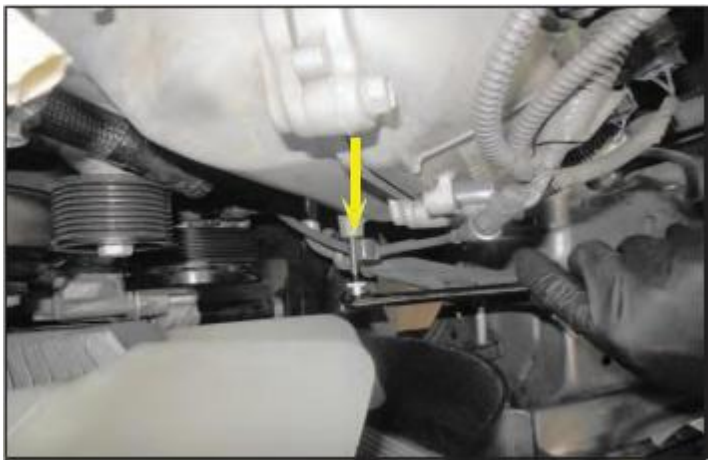
35. Install the idler wheel to the idler support using the supplied M 10 30mm length bolt.



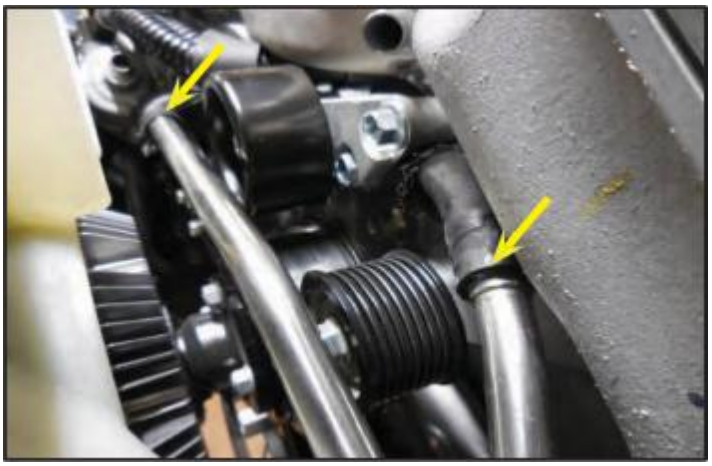
37. Use the tool E-6 to remove the illustrated stud.



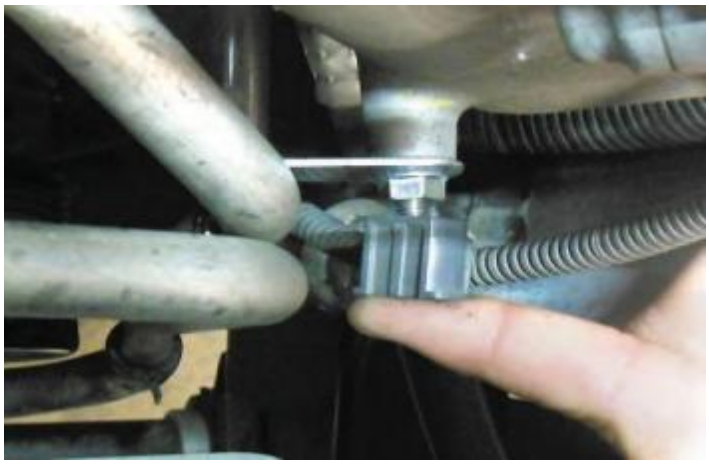
36. Unfasten the wire harness from the displayed stud. This is located on the front right side of the engine.



38. Install the supplied M 6 30mm stud in the position to remove the stud from the upper step.



39. Use the original clamp to connect the supplied oil cooler to the original hose position (as shown)



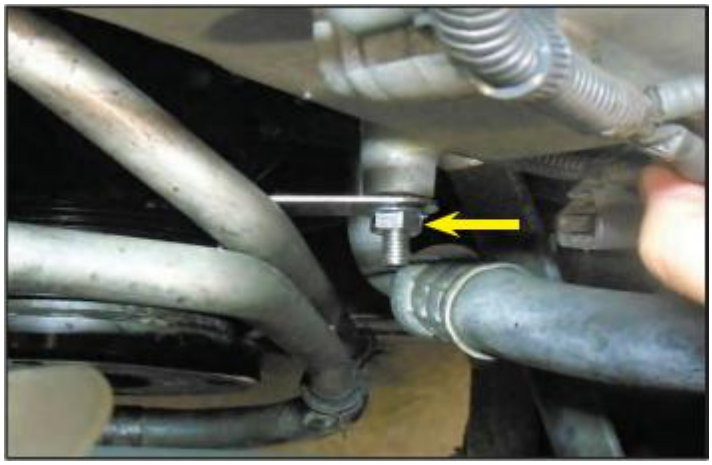
43. Reinstall the wiring harness to the stud shown



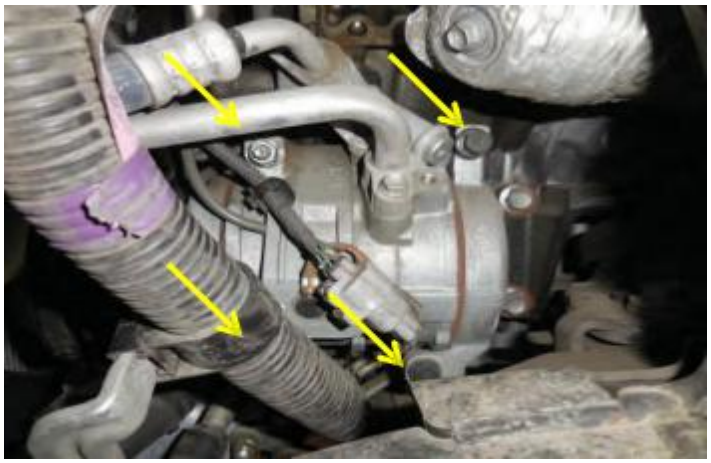
41. Install the original hose with the original car clamp on the cooling pipe of the oil cooler. The hose connects the heat sink pipe to the oil cooler. Note: This image is looking up from under the cooler.



40. Install the temperature sensor plug



42. Lock the supplied nut to the stud. Torque of 10 twist.



44. Reinstall the air conditioning compressor lock bolts.



45. Reinstall the air-conditioning compressor panel in the wheel compartment.



46. Reinstall the wheel fixing screws as described in the user manual.

Section 5: Spark plug and fuel injection inspection



1. Disconnect the injection nozzle wiring harness plug. Use a 12 mm socket wrench to remove the four fuel rail mounts. Note: The front cross line is installed in the figure. We have temporarily installed this to load the fuel
Up or blocked up to achieve the same result.



3. It is recommended to use spark plugs higher than the original plant. After the inspection

2. Pull off 1 coil plug and remove the bolt with a 10 mm socket.
The bolts have been removed from this coil package from the position indicated by the arrow.

Section 6-Supercharger preparation and installation



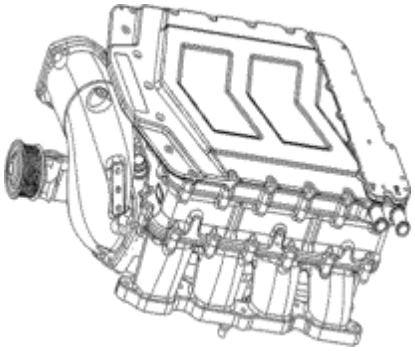
1. Remove the left and right original car intake washer from the manifold. Wash and inspect the washers. Replace if damaged. Apply a thin layer of cleaning oil to the gasket.



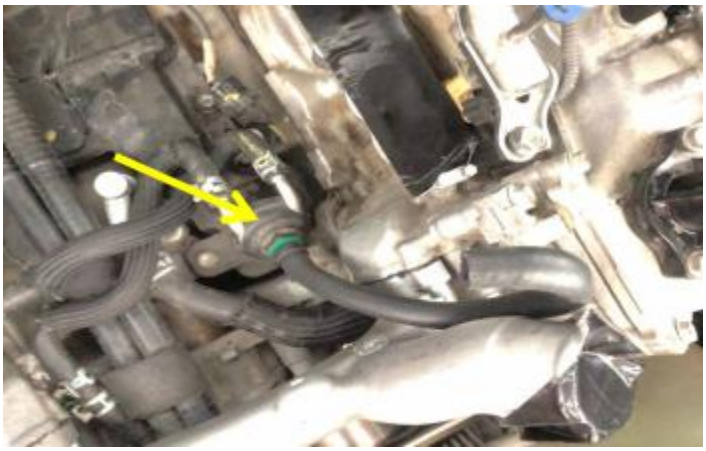
2. Place the original car washer into the supercharger sealing tank as shown in the figure.



4. Remove the tape covering the air inlet.



2. Remove the tundar and the supercharger body



3. Install the replaced ventilation pipes. Use the original car spring clamp



5. Install the supercharger to the engine. Be careful not to damage the washer at the bottom of the supercharger.

TUNDRA -5.7-SUPERCHARGERS



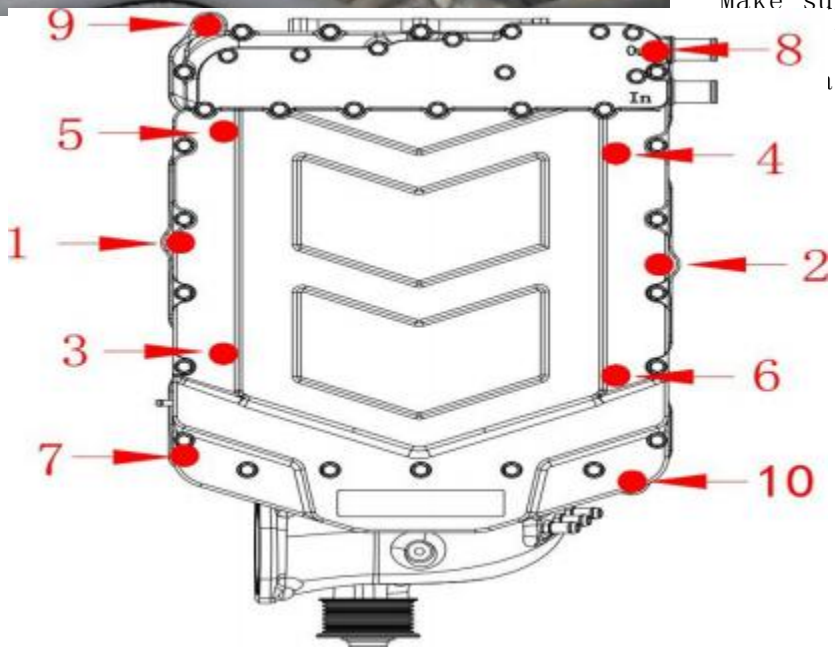
6. Install the original car bolts and nuts, and secure the supercharger in place. All the screws twist to the end. Press it tight in order.



7. Insert the oil injection rail on the left and right sides. Lock the fixing screw and insert the connection plug in the of sequence



8. Reconnect the fuel delivery line to the left and right sides of the fuel guide rail. Make sure the plug hears a "click" and be pulled out. Then slide the safety ıck into place and engage the safety



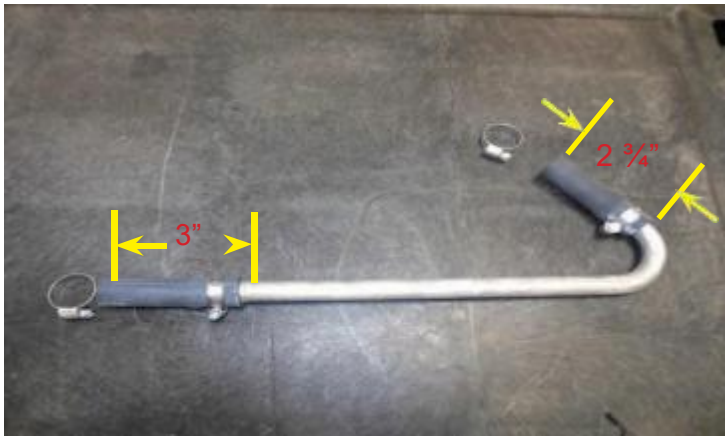
9. Schematic diagram of the booster screw torsion

TUNDRA -5.7-SUPERCHARGERS

Section 7-Belt-throttle hose installation



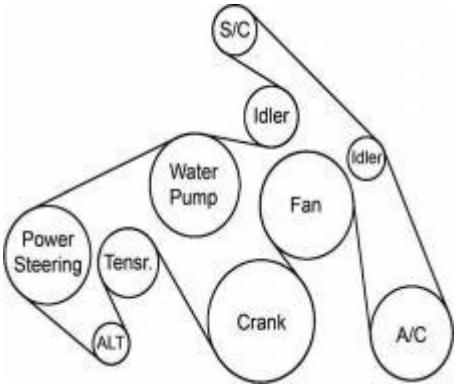
1. According to the belt schematic diagram. Install the provided belt.



3. Cut the supplied "coolant hose to 7.6cm and 5.5cm" lengths and install the supplied hose clamp on the "J" shaped hard pipe provided.



5. Clean the surface of the throttle body. Also for the appropriate throttle valve body
Good time to clean the throttle panels. Verify that the o-ring seal is installed on the inlet of the supercharger...



2. Belt schematic diagram



4. Install the "J" hard tube with the hose clamp. Ensure the hard tube have proper clearance from the surrounding parts.

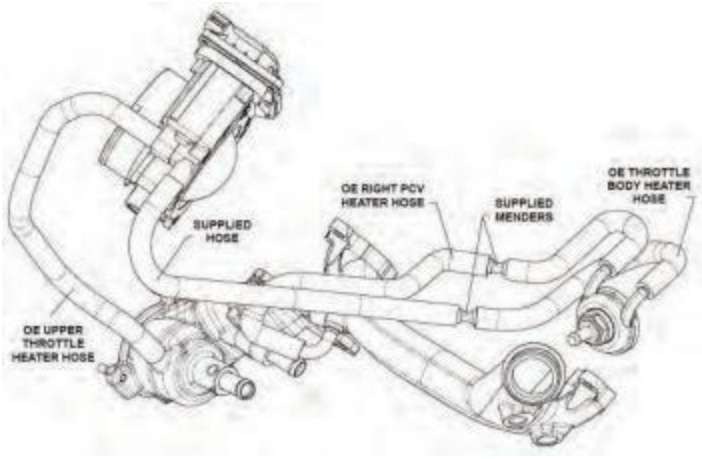


6. Install 4 original car bolts and fix the throttle body to the supercharger

TUNDRA -5.7-SUPERCHARGERS



7. Plug back into the throttle plug

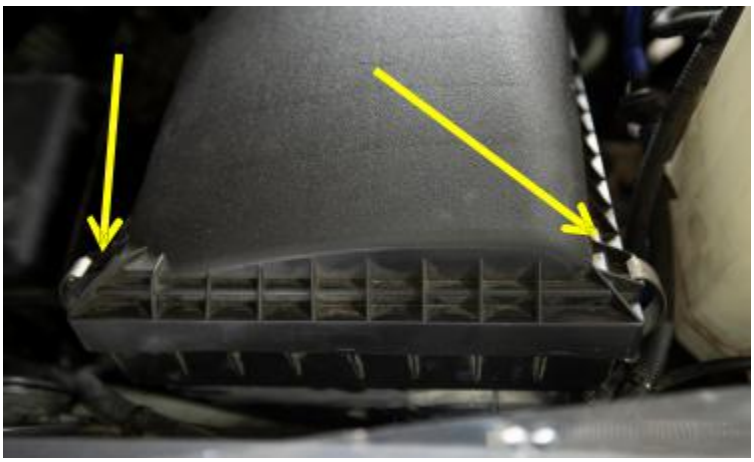


8. Return the throttle pipe according to the schematic diagram





9. Install the hose provided by the kit. Install the supplied air duct to the throttle body.(Note; clamp is original clamp)



10. Check the air filter. Hold the air bellows cover
Open and insert the intake silicone tube.2 spring clips,



11. Reconnect the exhaust gas hose to its original position



12. Find the fixing bolts for connecting the ventilation hose assembly M 8, which should be approximately 12mm long



14 Furthermore, the clamp position has been repositioned, as indicated by the arrow.





16. Install the three-way joint of the exhaust gas ventilation pipe. Use the original car for fixing the screw

13. Connect the long hose of the ventilation assembly to the left valve cover position indicated by the arrow.



15. Install the screw found in step 12 and twist to the arrow to fix the exhaust gas pipe



17. Connect the short hose of the vent assembly to the right valve cover position indicated by the arrow.

TUNDRA -5.7-SUPERCHARGERS



18. The third exhaust pipe is connected to the intake silicone tube to install the original car intake silicone tube



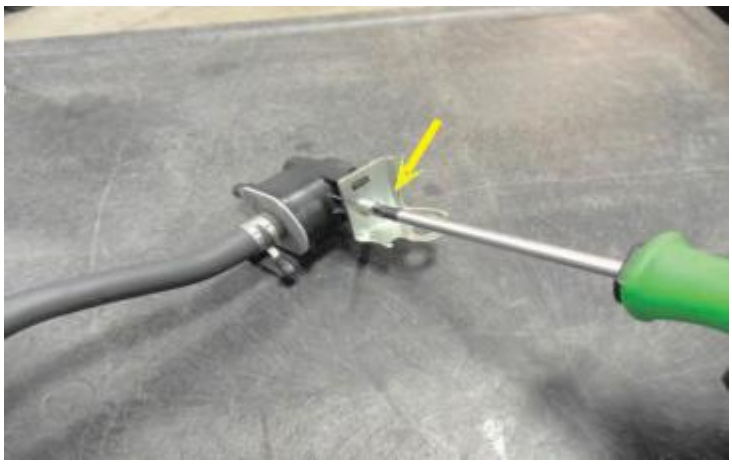
22. Remove the kettle bracket and install the carbon tank regulating valve



20. Remove the VSV and hose from the intake manifold. Save the bolts (green arrow) for subsequent use.



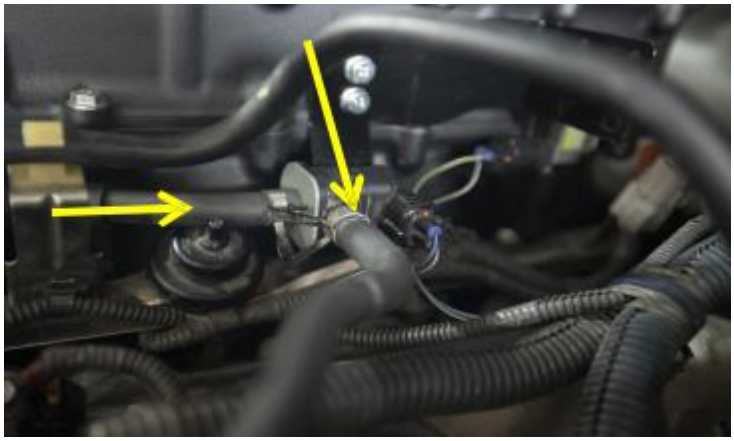
19. Install the oil pressure regulating valve vacuum pipe



21. Remove the bracket from the VSV with a cross screwdriver.



23. Use two M 6 10mm bolts to fix the integrated kettle bracket



24. Install the carbon tank solenoid valve plug and pipe line



26. Disconnect the brake booster line spring clip indicated by the arrow will be reused



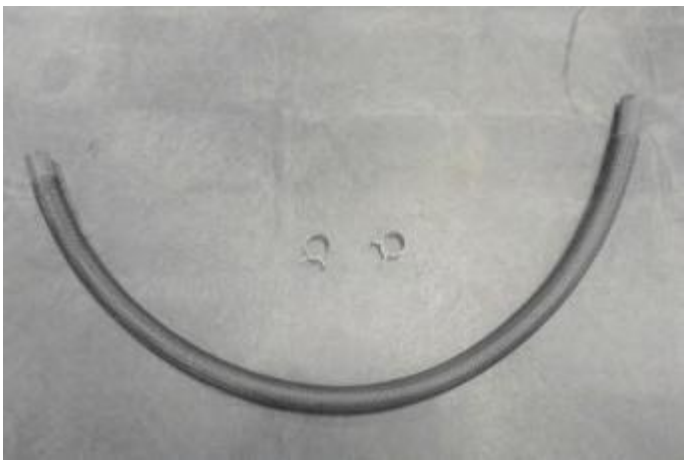
28. Connect the brake booster hose to the place indicated by the arrow,

and use an original car spring card to fix it. Place the brake booster under the air conditioning line and coil harness.

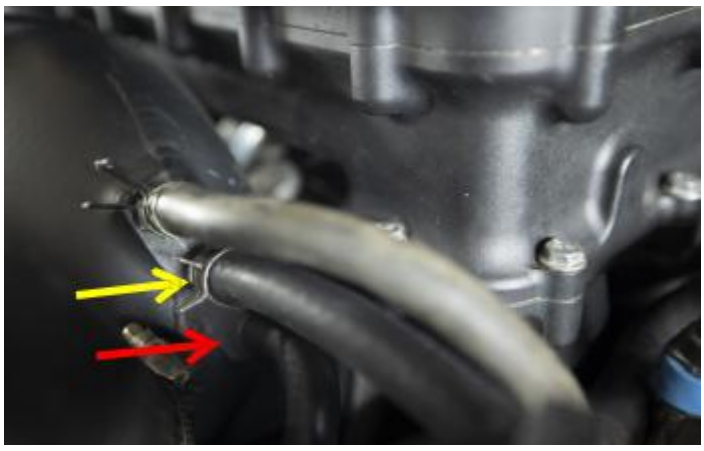
Central air tube (indicated by a yellow arrow).



25. The se installed on the carbon tube solenoid, use the spring clip of the original car, connecting the solenoid valve and the rear air tube of the supercharger



27. Collect the brake line matching with the kit. Collect two original spring cards from removal from the brake booster line.

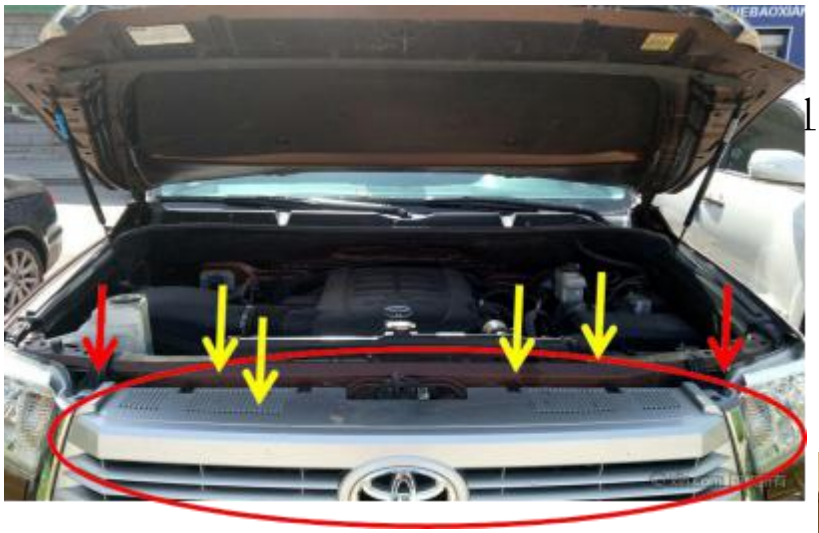


29. Connect the exhaust pipe to the vacuum connector below (display with a red arrow, then connect the other end of the brake booster hose to the booster

TUNDRA -5.7-SUPERCHARGERS

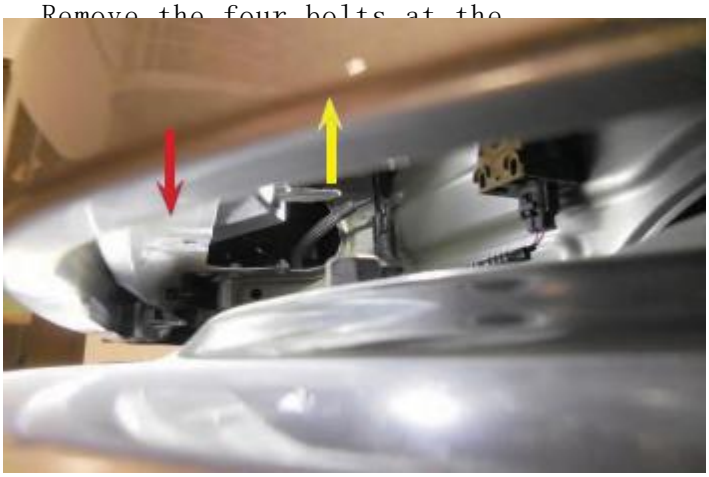


he radiator hose. The hose end is paired-end
Flip it over from its original position. Earlier you should have marked the radiator end, and this end should now be connected to the coolant crossover. The clips in the pictures are not shown in their final fixation positions.



llation of the water cooler

1. Note: This step only applies to the 2014 + smooth road. If you have a 2007-13 model, ignore this step. Remove the four bolts at the



2. Note: This step is only applicable for the 2014 + Tun-dra. If you have a 2007-13
Model of the year, ignoring this step. This picture is taken from the left notch
The front bumper, and shows the buckle behind the radiator grille. Two of the net
There are two convex ges on each side. The following label (shown with the yellow arrows)
must be turned up
push. The snap toward the front (shown with a red arrow) must be pushed down.you

The latgrid can be moved forward to remove it

TUNDRA -5.7-SUPERCHARGERS



3. Note: This step only applies to the 2014 + smooth road. If you have a 20 07-13 resume, ignore this step. Remove the nut for the lower mesh support (2 arrow positions). Now remove the mesh bracket.



5. Remove the three plastic clips indicating the row. Unscrew the plastic clip with a cross screwdriver and pull the clip out. Updated vehicles may have slightly different fasteners.





7. Remove the left radiator shield

4. Unplug the speaker. Remove the bolts that secure the horn, and set the horn aside for later reinstallation.



6. Disconnect the plastic clip that holds the harness holder to the plastic cover (shown with a low arrow). Remove the air conditioner connection clip shown by the red arrow.



8. Remove the machine cover lock support bracket



19. Install a water pump to make the iron. Handle the dirt on the iron surface

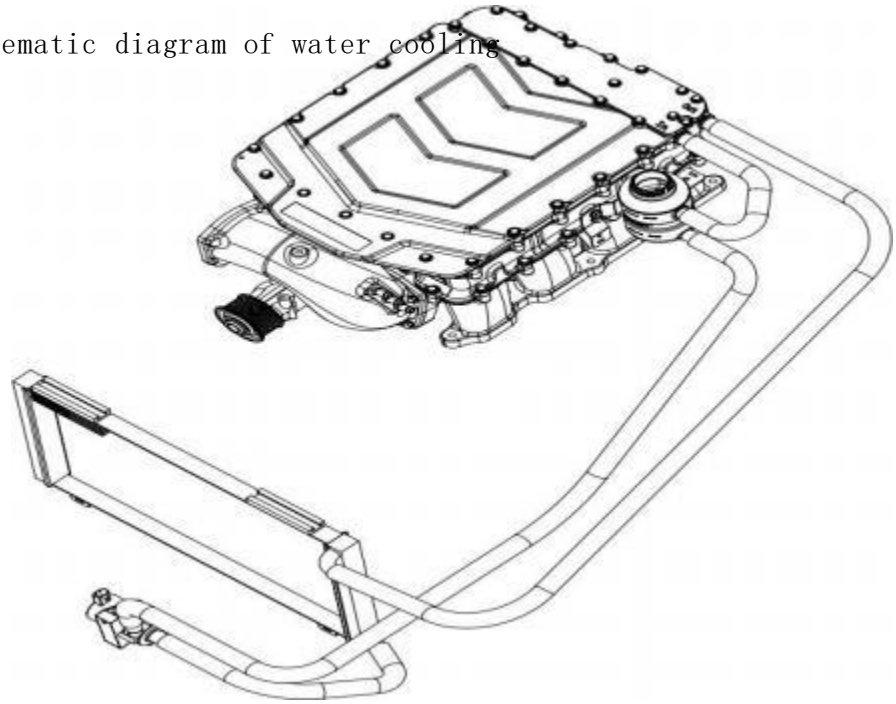


20. Install the water pump fuse.



21. You will also need the edge of the fuse box to allow clearance once the lid is closed. Make that incision in the area indicated by the red arrow. Leave enough clearance for the wires to avoid contact with the lid. Buckle back to the cover of the fuse box

22. Schematic diagram of water cooling

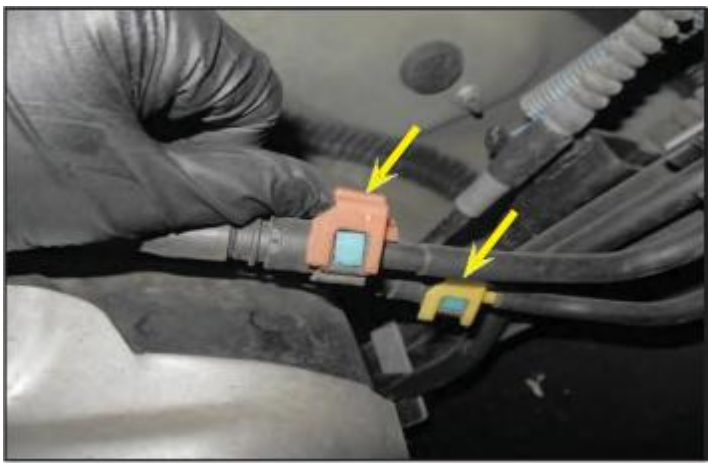


Section 9: Replace the gasoline filter element

Refrefer to the owner's manual. When working under the vehicle, ensure that the vehicle is properly supported. Failure to properly support the vehicle may result in injury or death. (Vehicles more than 60,000 kilometers recommended to replace the original gasoline filter more than 1 2 0,000 km recommended to connect the gasoline pump to replace the booster suite does not provide this accessory)



1. Lift the vehicle to access the fuel tank. Remove 2 bolts and 2 nut tank fixing brackets if required.





4. Pull the fixed clip outward to disconnect the exhaust hose.



2. Find the indicated fuel line to be disconnected.

3. Prepare a rag to absorb the excess before disconnection
fuel. Disconnect the fuel supply and return line (shown with yellow arrows). Pinch the lid and remove the safety lock. Now clamp the sides and pull the line loose. Be careful not to damage these joints. If the lines are entangled, they will need to be replaced.



5. Disconnect the wiring harness from the top of the fuel tank.

TUNDRA -5.7-SUPERCHARGERS



6. Disconnect the two hoses as indicated by the arrow. You may also need to remove the hose as shown by the blue arrow. For reference, the green arrow points to the back of the tank port.



8. Support the fuel tank with a suitable bracket. Unfasten the two set screws. Ensure that the fuel tank is properly supported. Once you remove both belts, the tank may fall.





10. Remove the harness clip at the top of the tank. This clip is located near to the upper left side of the frame fuel tank. You may need to put the tank down one to 5cm to get this clip.

7. Follow the three pipes you just disconnected back to the frame pipe and release the fixed clip.



9. Remove the fixing pin on the other side, and remove the two supports



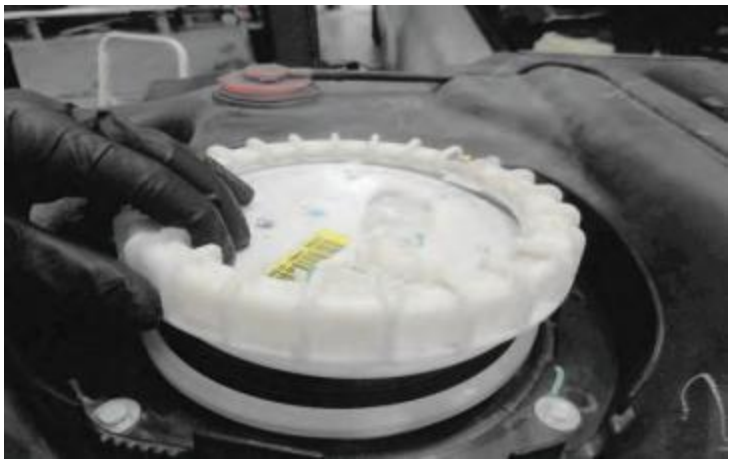
11. Slowly lower the tank as the harness clip is disconnected. It stops after the water tank decreases by about 15cm. You must go back to the top of the fuel tank and remove the plastic cover from the top of the fuel pump assembly.



12. This is the cover just removed from the top of the fuel tank.



14. Thoroughly clean and blow off any debris around the fuel pump assembly.



16. Use the fuel tank lock ring tool to remove the external lock ring. When you release the ring, you must rotate 1 / 3 times to release the three locks on the top of the pump assembly. Don't block these lock pieces.



13. Remove the electrical connection of the fuel pump from under the freshly removed fuel pump cover. This should be the last connection to the fuel tank. Continue to slow down the tank, making sure that when you lower it it will not hold anything



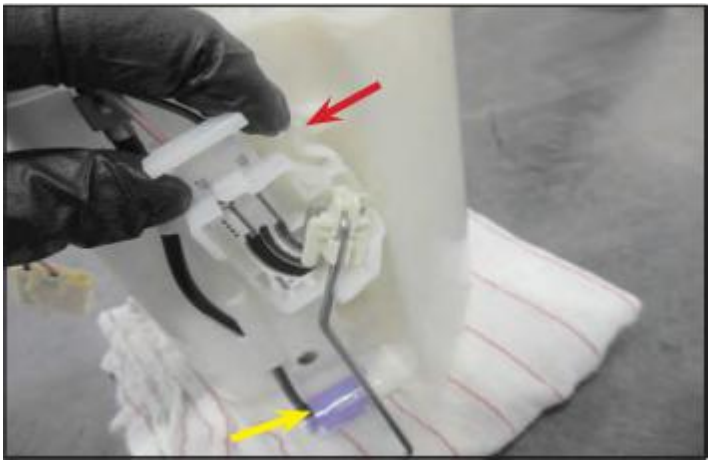
15. Remove the clip from both fuel tank fittings. Then take the fuel tank fittings out. Wrap the ends with a rag and gently remove them



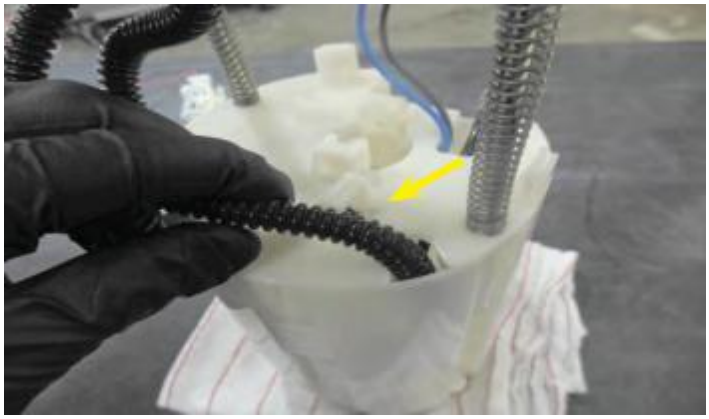
17. Remove the fuel pump assembly together with the o-ring from the fuel tank. Cover the tank mouth to prevent the debris from falling into the tank.



18. Unconnect the two wires shown by the green arrow.



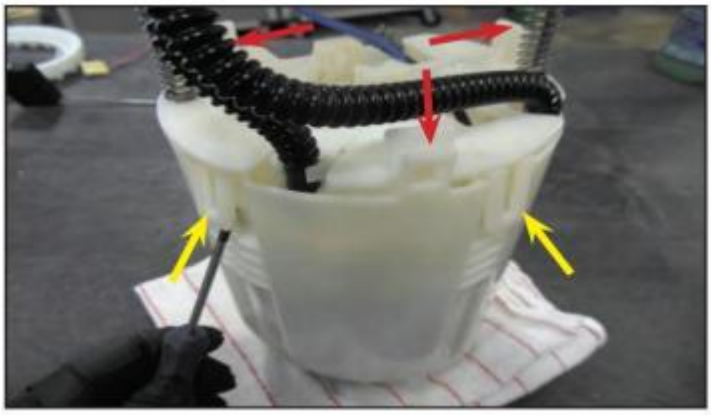
22. The top cover of the display housing is being removed. Put it upside down on the table



20. Remove the transmission tube fixing clip



19. Press to display the buckle with the red arrow. Unplug the accessory shown by the yellow arrow. Also disconnect the red / black wire from the gray clip attached to the fuel tank measurement sensor. Place the oil pump assembly on a clean surface.



21. Gently pry open the three claws (red arrow) away from the shell to remove the top. Gently pry open the two claws (the yellow serrations in the picture) and separate them from the sides.



23. Pry up the two claws when you remove the final internal component from the shell.



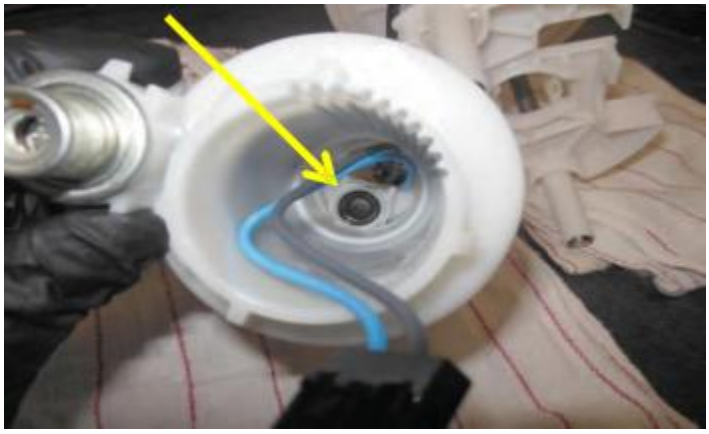
24. Clean up the shell inside. Use some clean rags to ensure that all the dirty fuel and debris have been completely removed.



(shown with an arrow). When disassembly, do not scratch.



26. Remove the fuel pump from the assembly and remove the electrical connection.

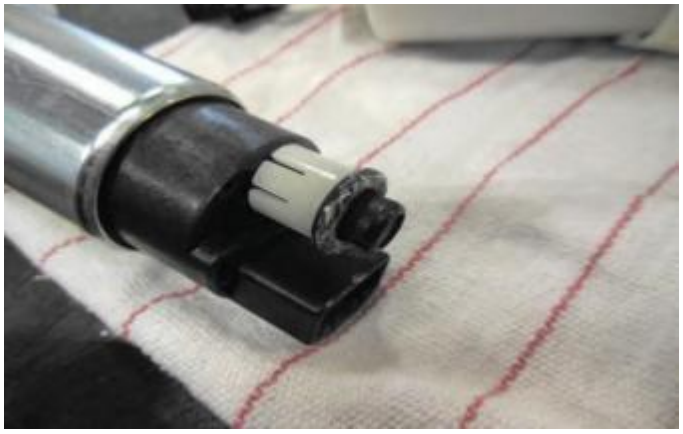


28.: Remove the original car o-type seal ring from the bottom of the inner shell

25. Popen 5 buttons of the fuel pump holder (blue plastic)



27. Remove the indicated spacers from the original vehicle fuel pump.



29. When installing the gasket, the slot faces the fuel pump. Apply the fuel pump O-ring with lubricating oil and insert the fuel pump back into the replaced filter element housing to ensure that the electrical connection is plugged back. Install it back in the original order.

TUNDRA -5.7-SUPERCHARGERS

Section 10 Coolant Filling and Final Testing



1 . Ensure that the drain screws of the radiator are closed with the Toyota specified coolant mixture added to the radiator. Install the back-on radiator cover.





ode and tighten the nuts with a 10mm wrench.



3. Add the water cooler kettle with the coolant specified by Toyota. Let someone else turn your ignition switch to ON mode to start the pump. Do not start the vehicle! This will circulate the coolant. Once the kettle is out of water, turn off the pump and fill it again. Do not leave the kettle out of water to repeat the process until the kettle reaches the scale line. Liquid circulation. Reinstall the kettle cap.

4. Pay attention to. Contact our company brush write program. Ensure that the calibration computer ECU files are successfully calibrated to your vehicle

Section 11 Coolant Filling and Final Testing



1. Check the engine belt to ensure that it is properly aligned with all the pulleys. Start-up causes the engine to go idle. Check for fuel and coolant for leaks. Exude the inlet and outlet hose on the radiator to drain the stranded air in the system. Check the air intake for leaks and tighten any loose fittings. Reinstall the front grille.

2. Once the engine has cooled down, check the level of the radiator tank and the intercooler tank. Add the coolant when necessary. A few before of the vehicle under normal driving conditions. Do not perform any wide open throttle runs. Check for any unusual sound, vibration, or engine misfire. The supercharger does have a slight whine under pressurized conditions, which is normal. After initial testing, let the engine cool down and re-check the coolant levels.

3. After a preliminary test drive, gradually turn the working vehicle on to the full throttle. Listen if the engine explodes. If an engine knock is detected, immediately release the throttle. Most bursts are caused by low octane gasoline tubes still in the fuel tank. Need for high quality 91 octane fuel. Enjoy your new supercharger! If you have questions about your vehicle performance, please complete the warranty registration after you have completed your vehicle installation and road testing.

电脑刷写注意事项

1， 确定电瓶电压不低于11.8V，建议安装好后，怠速磨合半小时，这样可以磨合机增设备同时确保电瓶电压可以达到标准，有充电机最好连接充电机进行读写。

2 确保OBD2接口上没有并联或串联其他非原厂设备，比如大屏导航协议盒，远程启动协议线，OBD仪表等类似通过原厂CAN线工作的设备，检查方法可以从OBD插头后方观察有无明显并联或者串联线束，如有，刷写过程中必须全部移除，刷写后装回，不影响任何原有功能。

3 确保插头的连接稳固定性，确保笔记本电池可以坚持两小时以上，建议直接连接充电器。确保笔记本没有设置自动待机，如不确定，要随时保持对电脑的操作，确保其不会在读写过程中待机或关机，否则，车辆ECU极大概率会损坏！！！

4 刷写后，如有故障码清除即可，部分车型与可能会出现怠速过高或过低，短暂性怠速不稳等情况，不要着急，着车至热车并怠速着一会，然后重新启动就会好，这种情况多数都是节气门过脏导致的，建议安装过程中同时清洗节气门。

5 试车，各种工况下试车，发动机无故障灯点亮，无顿挫，试车结束，可以交车。

PCM读写程序安装



1. 首先先将电脑杀毒软件（实时扫描）设置为关闭

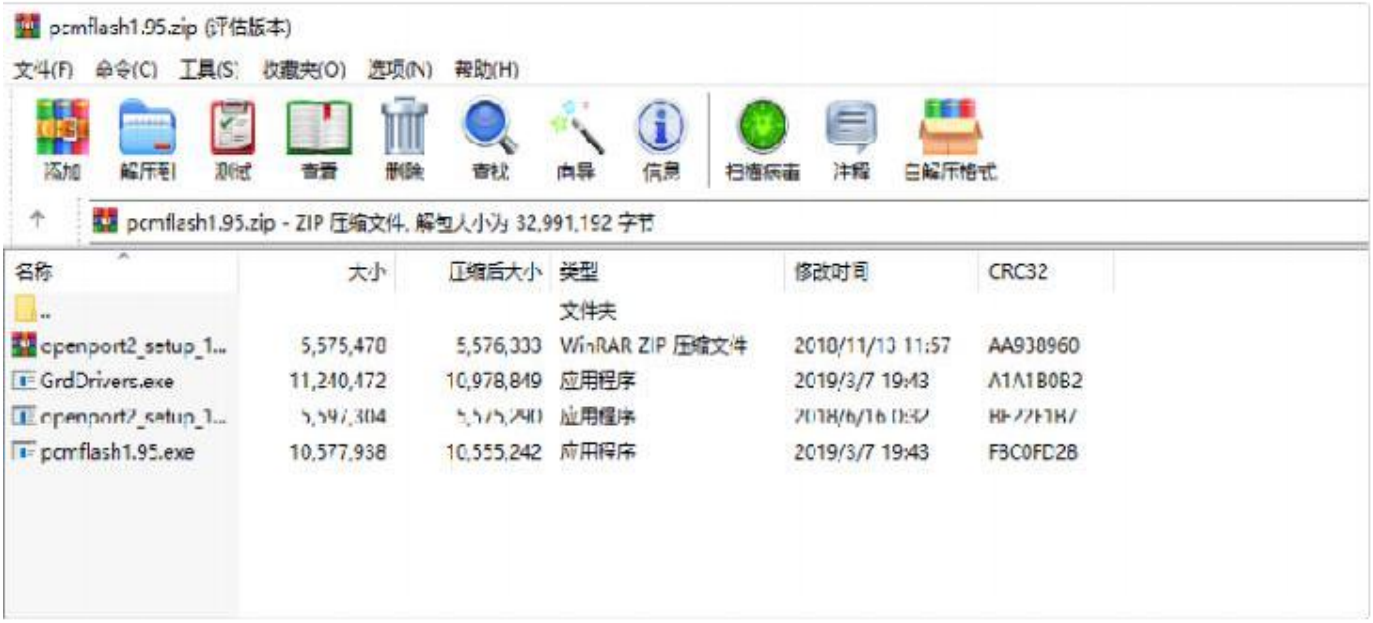


2. 新建一个文件夹 可以命名为PCM软件



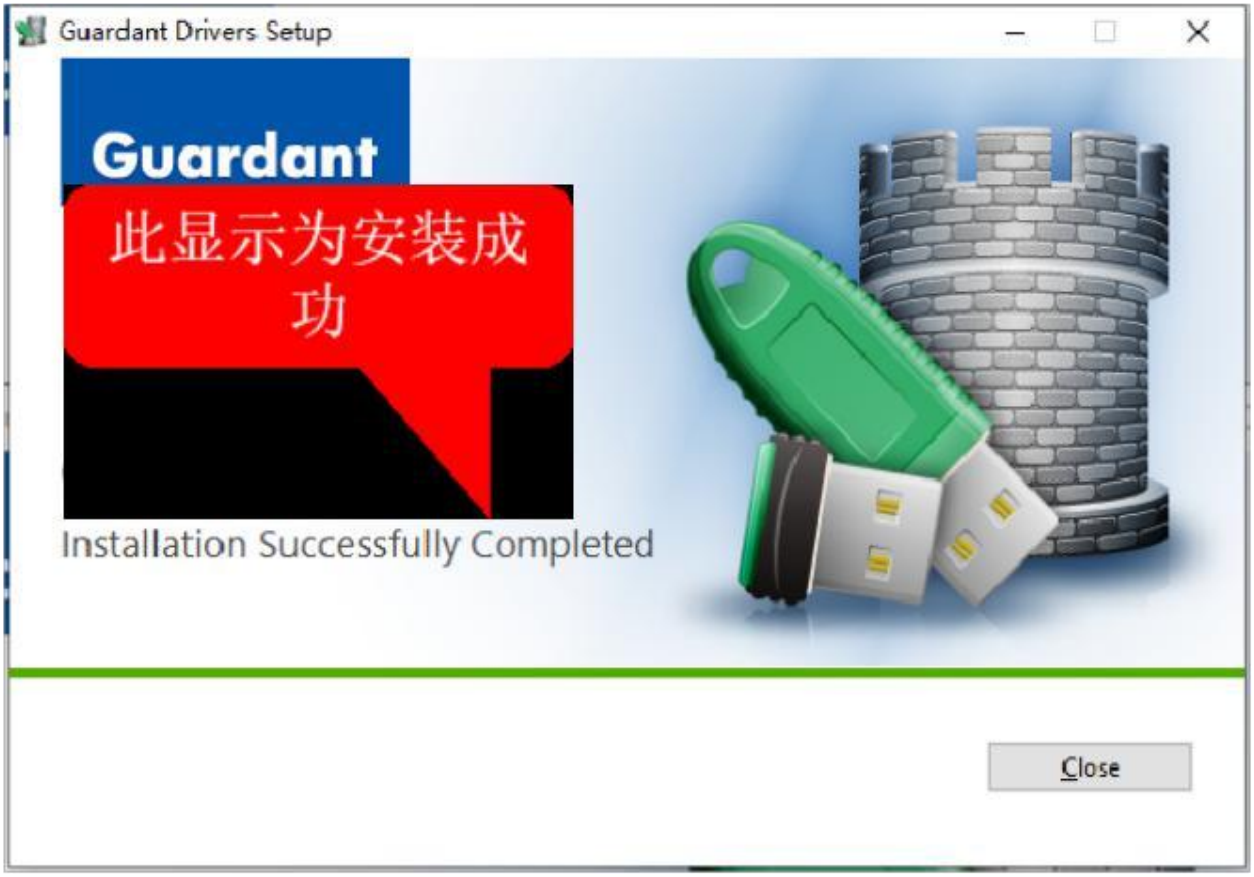
3. 在PCM软件里面新建一个原车文件文件夹





6. 双击打开第一个安装加密狗驱动，打开后跳出此界面，点击(Install)安装此应用。

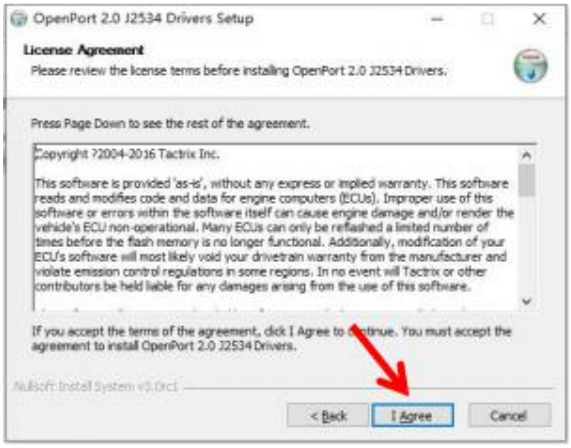




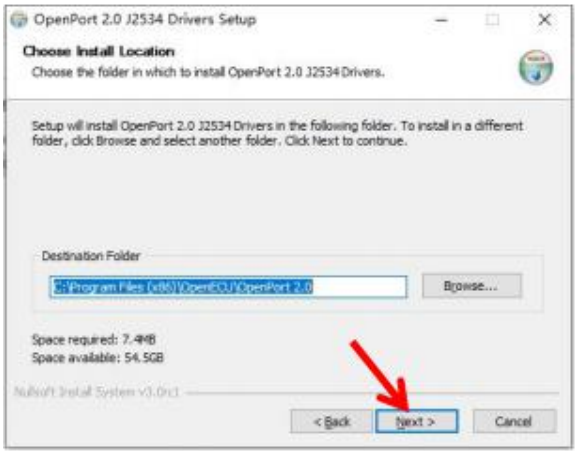
安装完成，点击（Close）关闭页面。



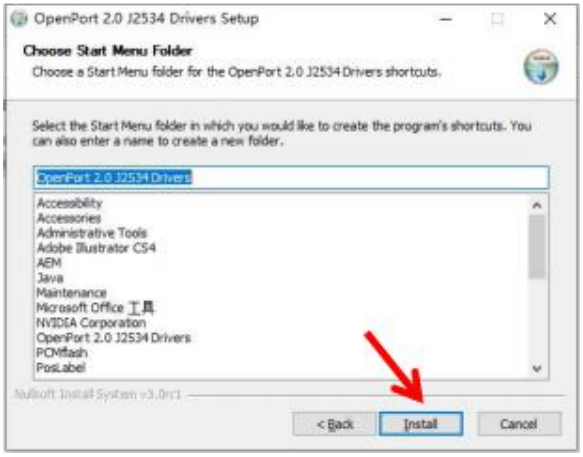
Step 5: Click the second application to compress the file, install the OBD driver, open this page appears, click (Next) for the next step.



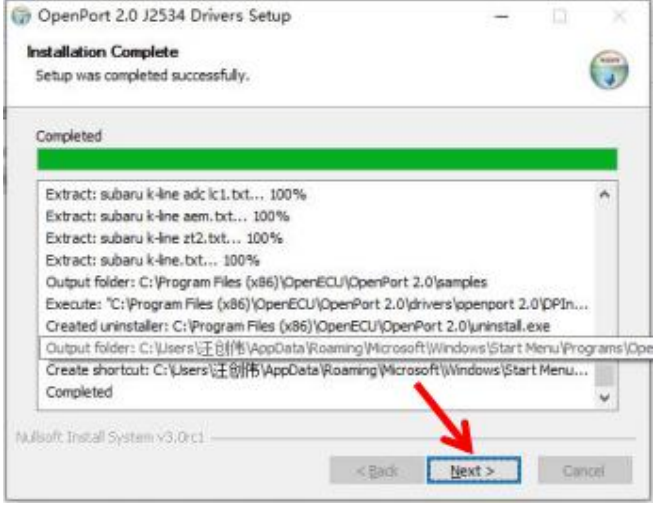
Step 6: Click (I Agree) to go to the next step.



Step 7: Click (Next) to go to the next step.

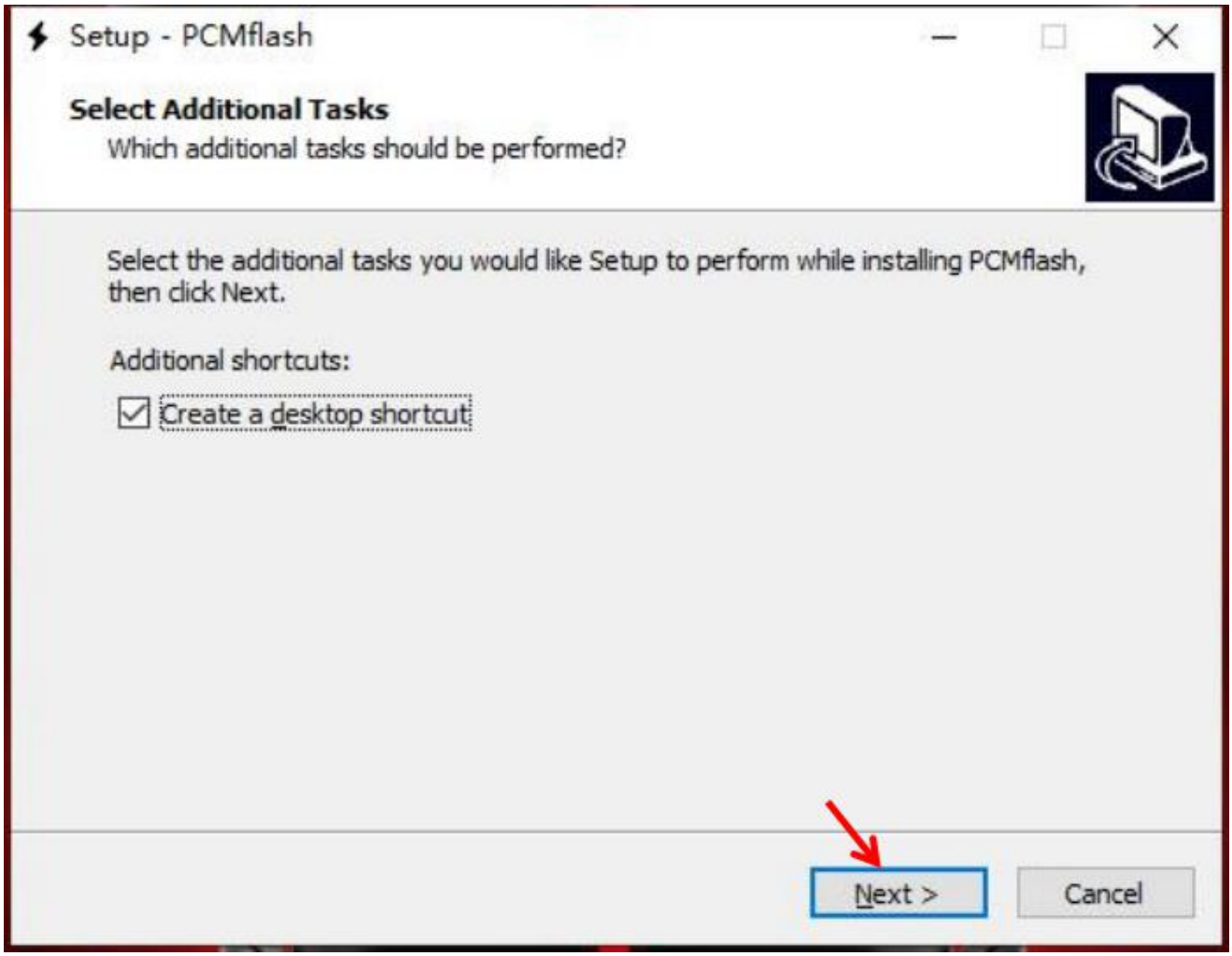


Step 8: Click (Install) Agree to install this application.

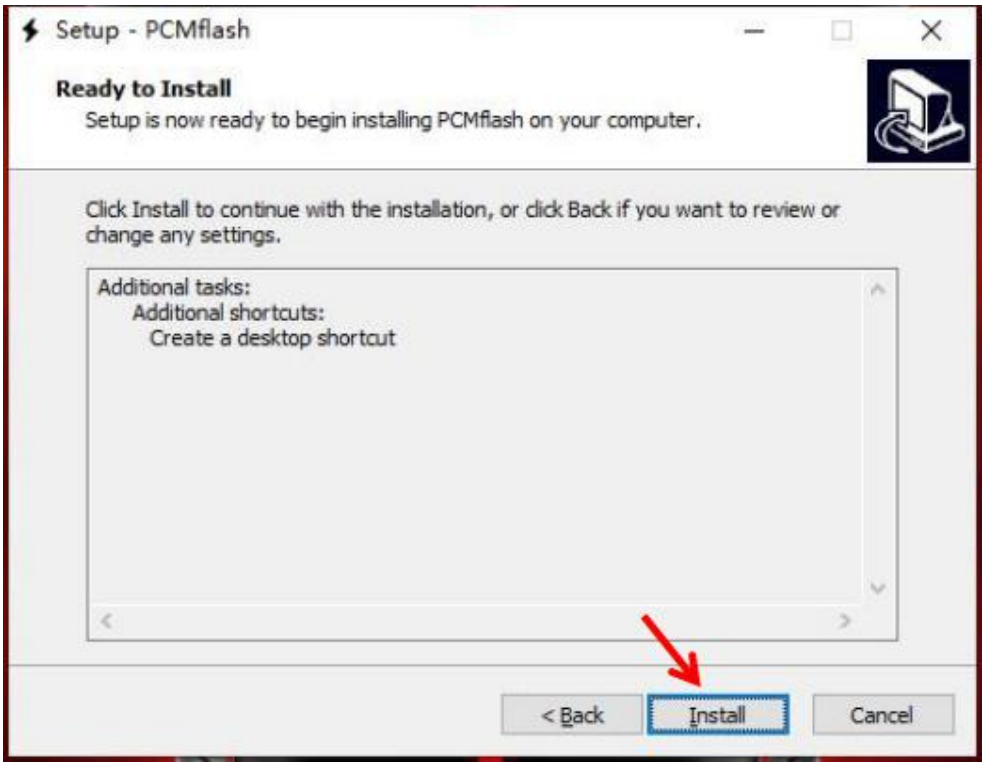


Step 9: Click (Next) for the next step, and the installation is complete.

Step 10: Click on the third application of the compressed file, install the PCM software, jump out of this page, and click (Next) for the next step.



Step 11: Click (Install) to install the app.



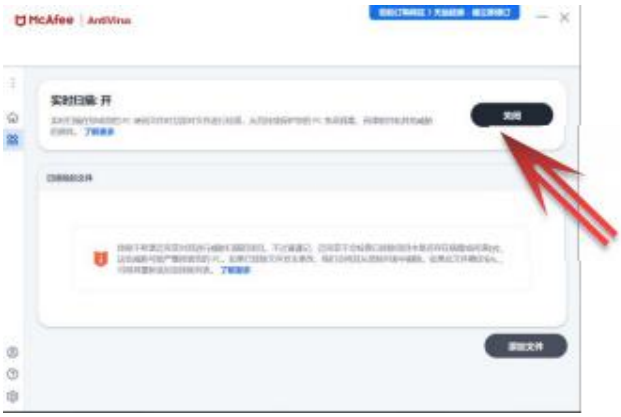
Step 12: Click (Finish) to complete the installation.



Program read and write steps



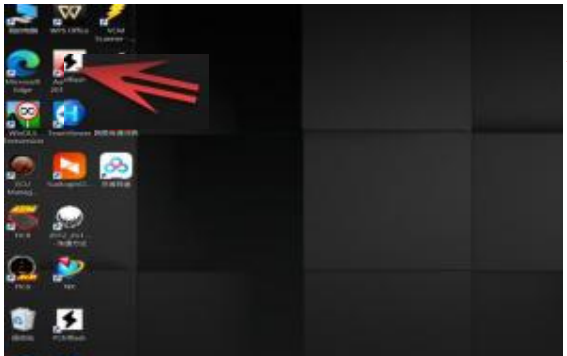
1. Before a similar device, remove the brush and recover, which does not affect the original function. Otherwise it may cause damage to the ECU!!!



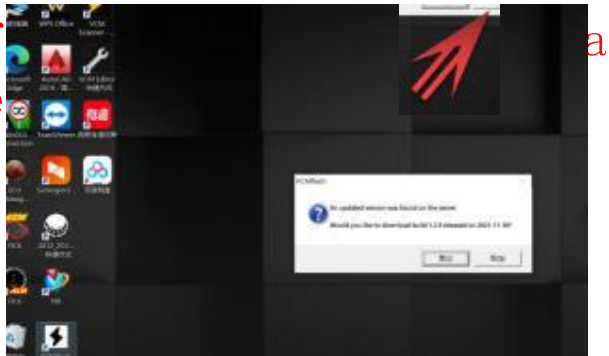
2. Set the computer anti-virus software (real-time scan) to the off state



3. Connect the device to the original car OBD interface, connect the USB data cable to the computer's USB port, and insert the dongle into the USB port. Make sure the connection



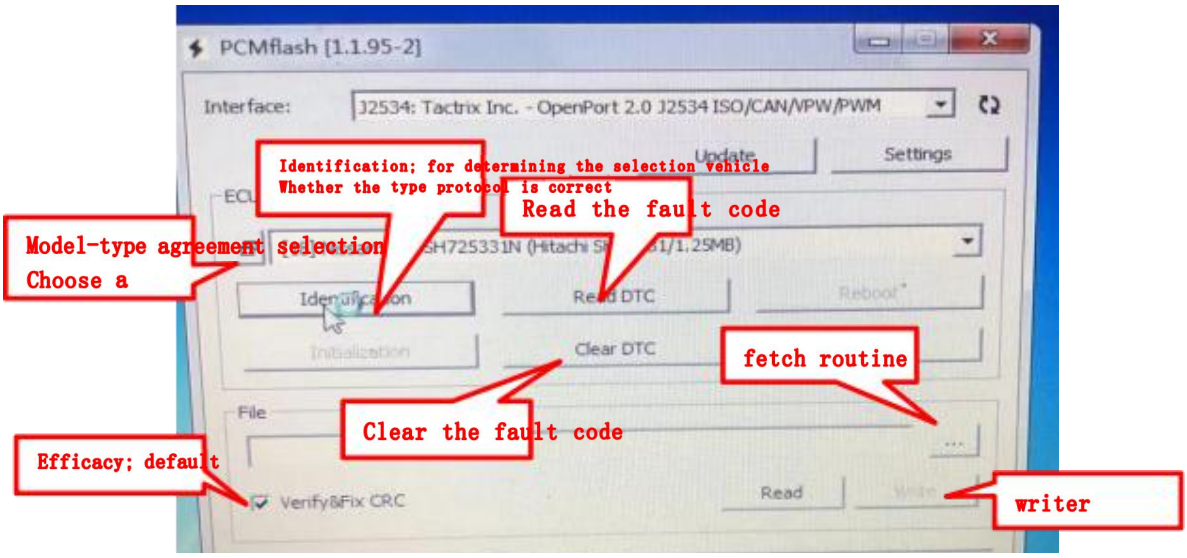
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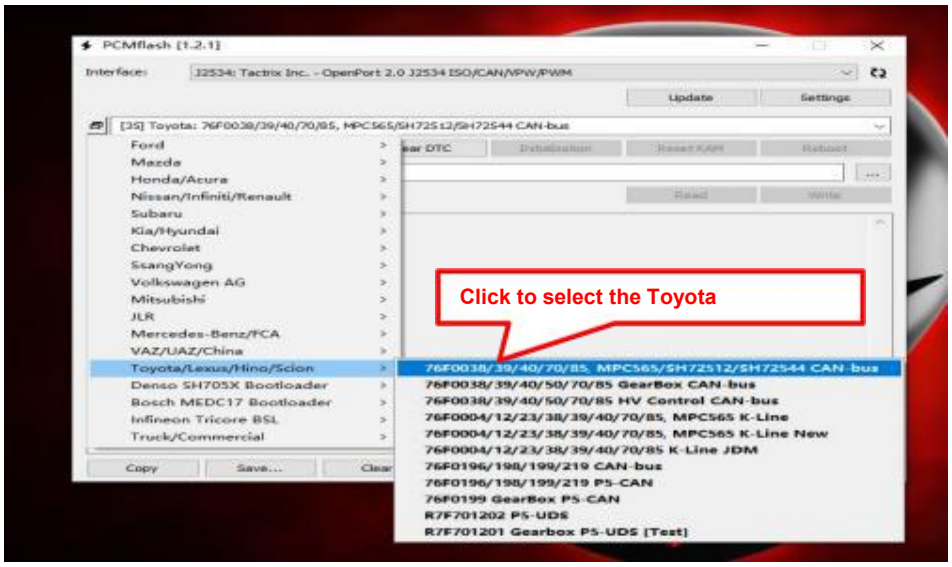
4. Double-click to open the PCMflash soft

An icon

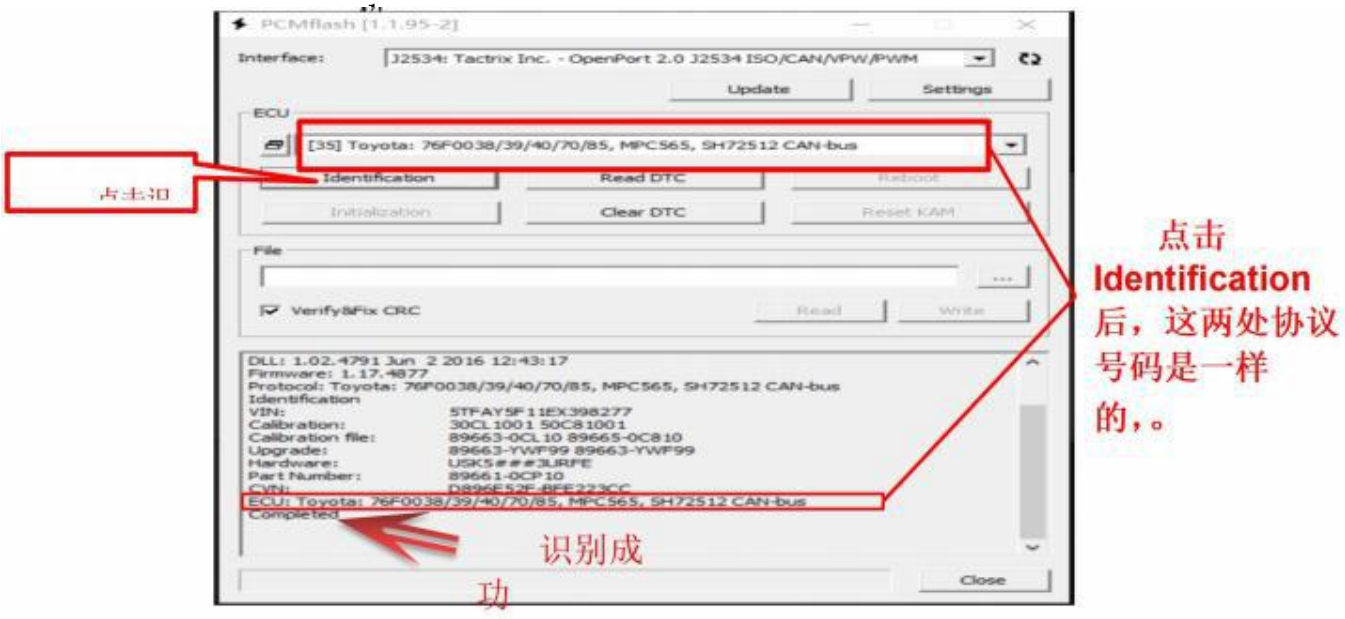
5. Select No in the next prompt (N)



6. PCMflash interface determination



7. Select the models according to the picture exercise

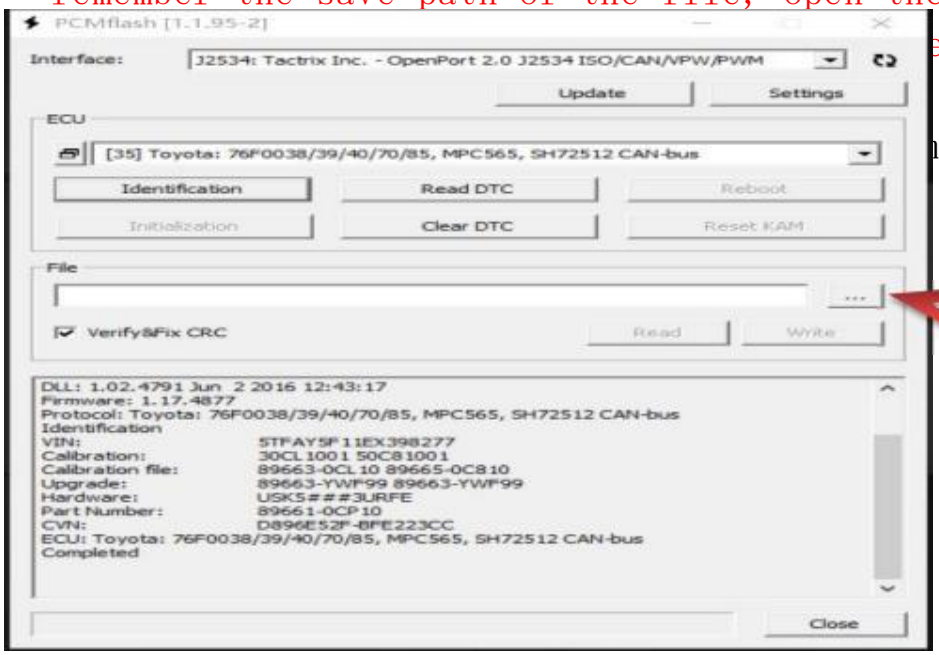


8. After confirming that the information is correct, take photos of this page and send it to the manufacturer (vehicle letter

The interest reading is completed)

9. Send the agreement picture and license plate and nameplate to the manufacturer, and the manufacturer will modify the document according to the model

After receiving the modified file, please download and remember the save path of the file, open the PCM

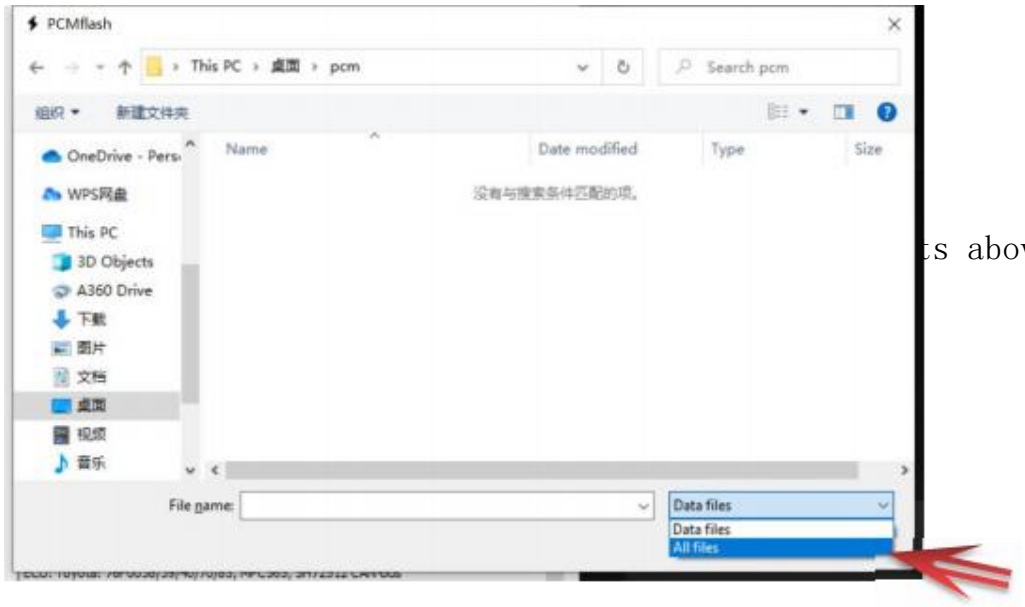


e, and select

mp out [check

Click here

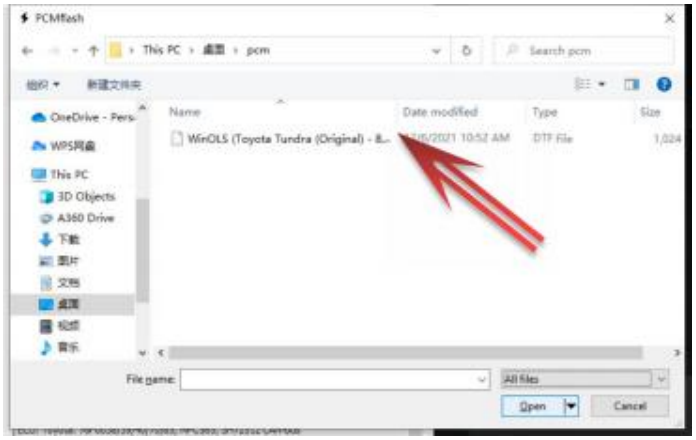
The modified new file is found



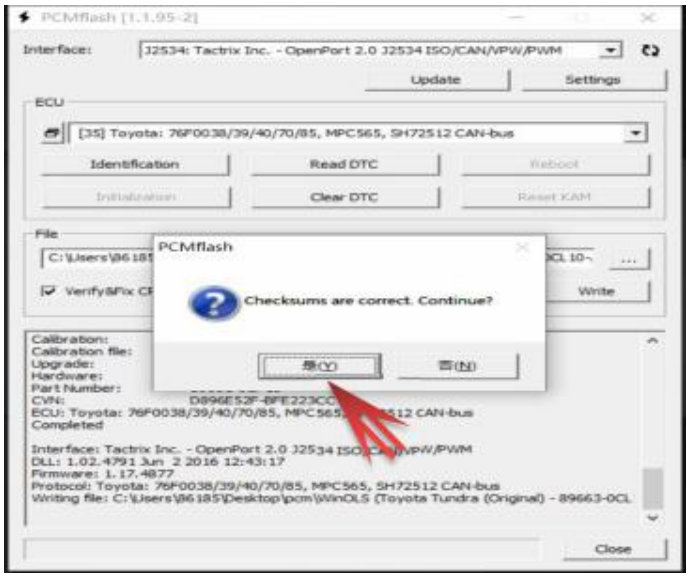
ts above Wr ite, and

Click on the ALL files

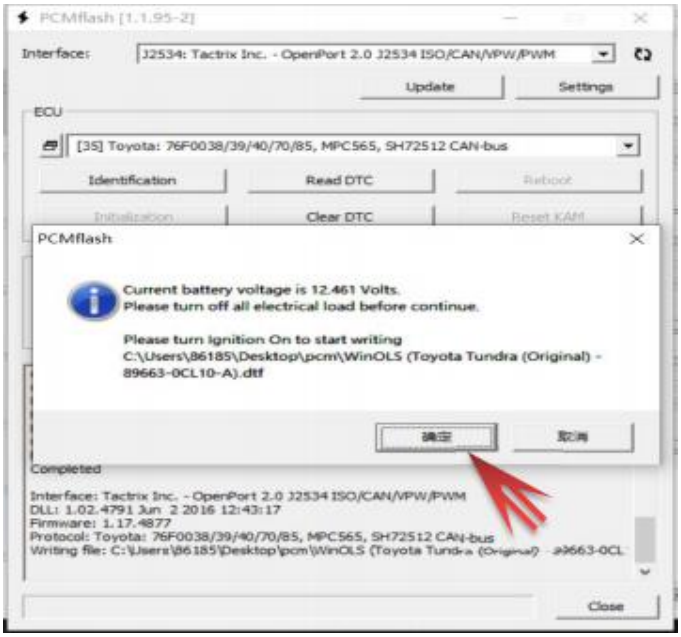
11. When you open the folder, you find that this page appears (not with the Search criteria match) select the bottom right (ALLfiles)



12. Double-click the modified file as indicated by the arrow



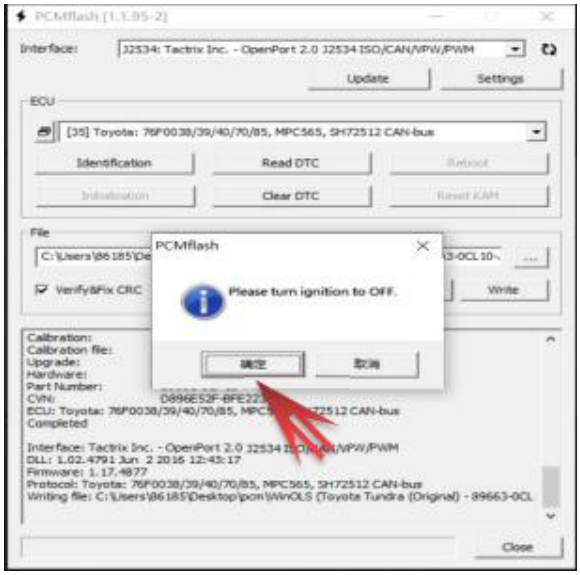
14. Select as (Y) as indicated



16. Click on the message (confirm)



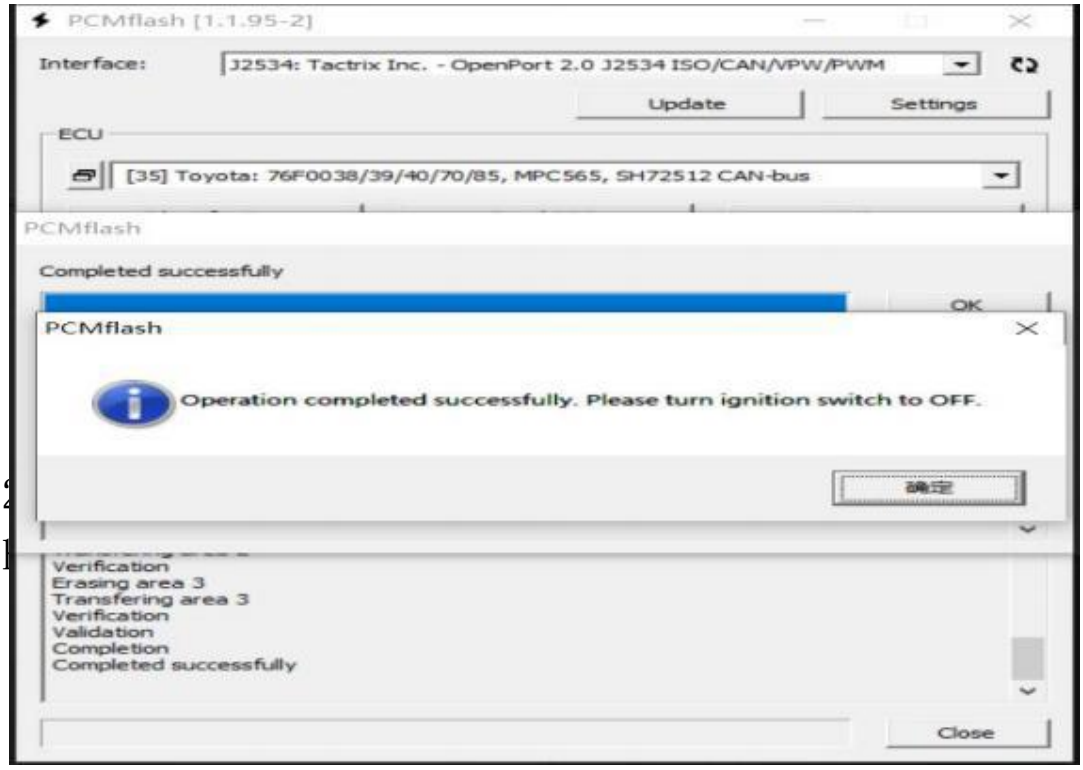
13. Click on the following information (Write)



15. Follow the prompts to close the key door and then click the OK button

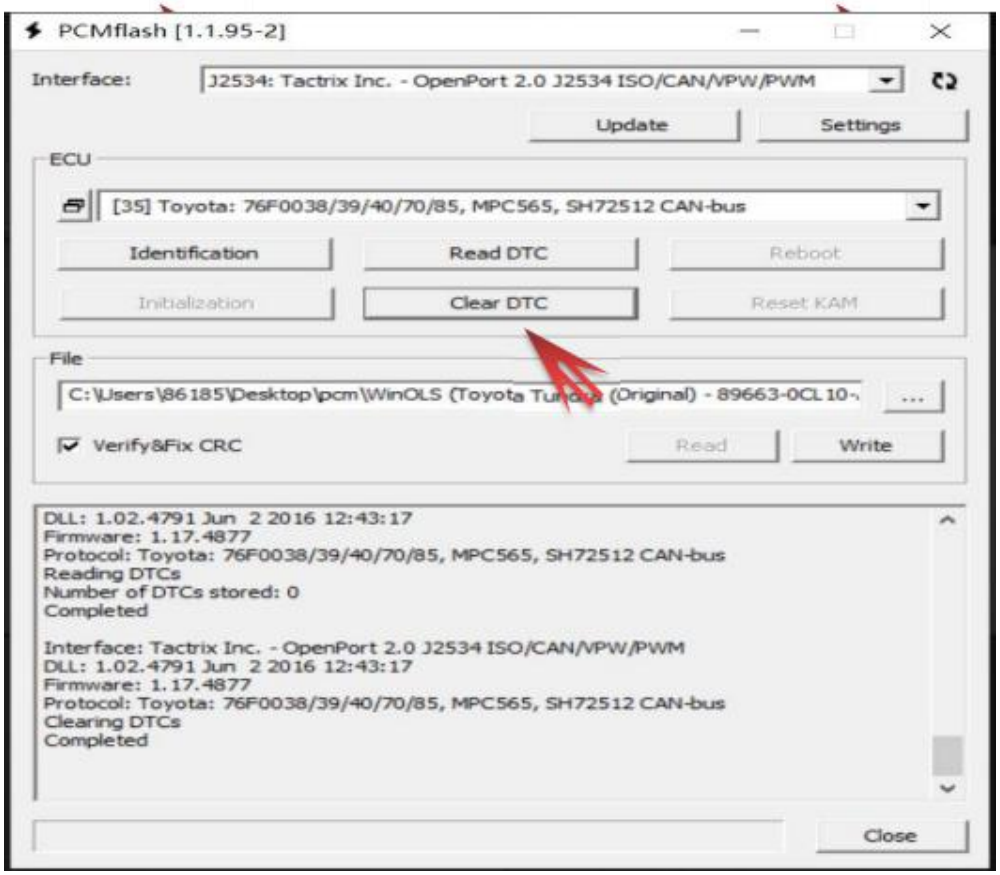


17. Do not move the computer and data line during the program writing!!!



12
th

18. Successfully close the key key successfully (OK)



19. Open the key door again and click (CLear DTC) to clear the fault code

check up

1 . Check all pipes for friction collisions after installation.2. Check whether the antifreeze of the water tank and the supercharger belt are installed in place.3. Turn off the engine immediately for 3-5 seconds, and check whether the belt installation is in place again.4. Check the oil leakage, and run in for about 30 minutes.

5. Construction, discuss the use of 95 and above gasoline, better engine protection, and better power.6. After running-in, connect to the turbine pressure gauge for road testing, and the pressure shall be controlled at.

7. 0.45bar, the Company shall not be responsible for if the self-adjustment pressure exceeds 0.45bar.