AnroT安若特®

SUPERCHARGERS

Jimny 1.5 turbo installation instructions



Important Note

1. Before installing this turbocharger kit, read the installation manual carefully, check the parts quickly and confirm that the kit is complete. If you find missing parts or damaged by transportation, contact your dealer immediately.

2. This turbocharger kit is suitable for track use, do not use on ordinary roads, please comply with local traffic rules.

3. This turbocharger kit is only applicable to the vehicle in factory condition. If the vehicle has been modified, please consult the dealer for technical support to ensure the smooth installation of the turbocharger kit.

4. This turbocharger kit is designed exclusively for power enhancement. For extreme off-road applications including track racing, desert driving, water crossing, and Gobi terrain, owners should implement custom upgrades to the intake system, engine lubrication, and cooling components. These may include: installing waterproof intake components, implementing dust-proof measures, and enhancing cooling systems in desert environments where engines operate under prolonged high-load conditions. Consultation with authorized dealers for technical support is strongly recommended to ensure optimal engine performance.

5. The turbocharger kit is specially designed for this vehicle's factory condition. Any adjustment to the intake manifold, exhaust manifold or other engine parts after installation may adversely affect engine performance and may trigger the "Check Engine" light.

6. Correct installation of this supercharger kit requires general automotive mechanical knowledge and experience. If not, contact the dealer to arrange for a professional to install it.

7. Before installing the supercharger kit, run at least one tank of premium fuel (95# or higher) to prevent engine damage caused by detonation caused by running the supercharged engine on lower octane fuel.

8. Before installing the turbocharger kit, remove the original fault code. This prevents the vehicle from being in a fault protection state, which may affect the operation of the engine computer and thus your driving experience or cause unnecessary damage to the engine.

9. Perform a basic engine check before installing the supercharger:

* Replace the air filter
* Replace the fuel filter according to mileage
* Use brand synthetic oil
* Change the oil filter

Check whether the three-way catalytic converter is blocked or damaged

Check the spark plugs

10. It is recommended to replace the original spark plug before the first use, and choose a spark plug with higher calorific value (one degree higher than the original car, and choose a genuine one).

11. Before installing the supercharger kit, make sure the engine is cooled and protect the exterior of the vehicle as necessary.

12.It is recommended to clean the throttle to prevent engine idle vibration.

13. The water cooling circulation system of this product does not contain antifreeze. Users should choose the corresponding specification antifreeze according to the use environment.

14.Installation of this turbocharger kit may invalidate the original 2 years / 60,000 km warranty. If you continue to install it, you acknowledge that you are aware of this.

Safety Precautions

Read the Important Safety Precautions and Warnings Carefully Before Continuing Installation!

Proper disassembly, installation methods and procedures are critical to the safety of the personnel involved in the installation of the kit. Failure to observe these precautions and resulting improper installation may cause personal injury or death.

1.Always wear safety glasses to protect your eyes

2. Keep the ignition switch in the off position and disconnect the battery to prevent accidental contact from causing a short circuit and battery damage

3. Always use the parking brake when working on a vehicle

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

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

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

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

8. When the engine is running, keep yourself and your clothes away from moving parts

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

Section A-Inspection/removal of parts of the original vehicle

The following section will guide you through the removal of original vehicle parts. Some fasteners and parts will be reused, so be careful when removing fasteners and parts.



1. Check that the original factory is operating normally. Use a regular decoder to read the OBD and check for faults in the original factory.



2. Remove the negative battery wiring harness (to avoid ironing during installation).



3. Remove the air inlet duct fixing bolts.



4. Loosen the clamp on the air box throttle hose



5.Remove the intake temperature sensor wiring harness plug.



6. Push open the bellows clip.

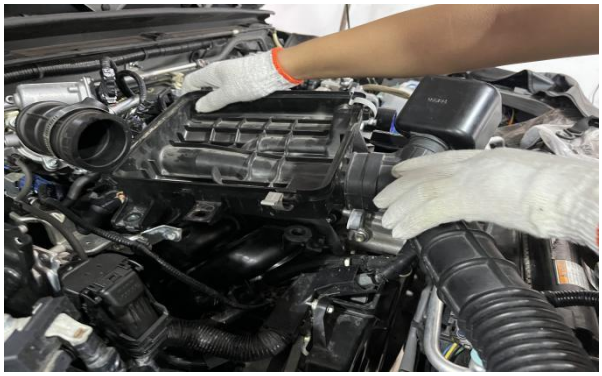


7.Remove the top cover of the intake air box.



8. Remove the air filter element of the intake air box.

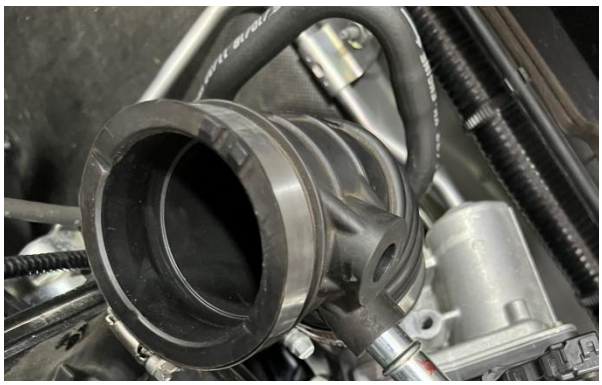




9. Remove the fixing bolts of the lower shell of the intake air box

10. Remove the intake lower base housing.





11.Connect the exhaust pipe to the iron pipe and remove it

12. Connect the throttle wind box to the intake pipe and remove it.





13.Press the latch to remove the throttle plug.

14. Remove the throttle fixing bolt. Remove the throttle.





15. Remove the front oxygen sensor connector plug.

16. Remove the oxygen sensor before disassembly.





17.Remove the banana insulation cover fixing bolt

18. Remove the fixing screws of the exhaust banana.

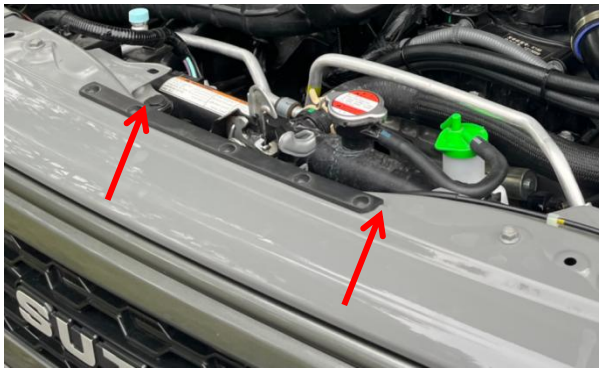




19.There are 6 exhaust tube fixing bolts.

20. Remove the fixed support bracket of the exhaust pipe.





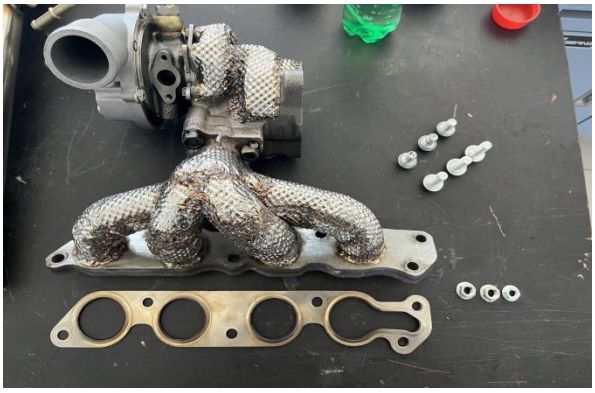
21.Clean the carbon deposits at the exhaust pad and cylinder head connection

22. Remove the front plastic clip of the net



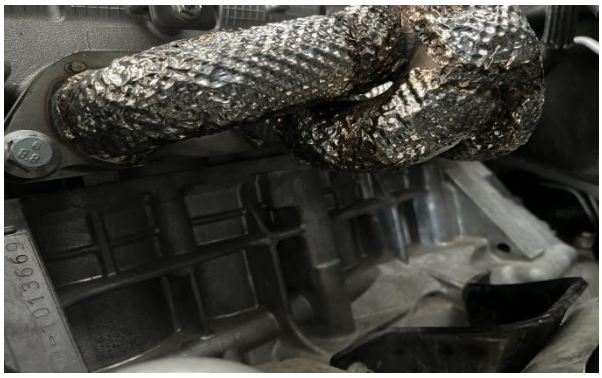
23.Pull the Front Net in the Direction of the Arrow

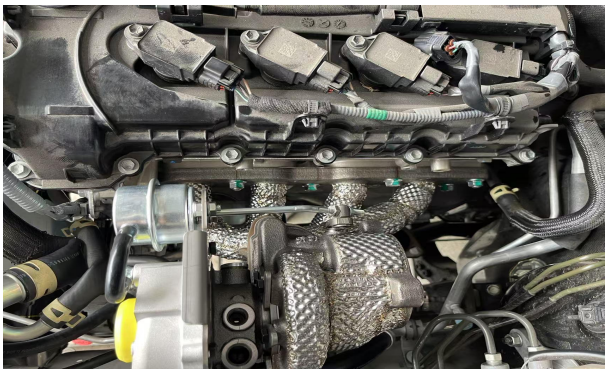
Section B-Installation of the Turbocharger Main Assembly





1.Remove the exhaust banana turbine assembly 2. Install the original exhaust pipe gasket. Check whether there are any foreign objects near the exhaust hole





3. Use the flange m10x125x35 screw to tighten the exhaust pipe bolt 4. Fix the upper exhaust banana screw (install the original nut on the original screw)





5.Remove the turbine pipe connector

6. Use copper pad to seal before and after installing screws





7.Install the locking and fixing screws of the turbine iron pipe

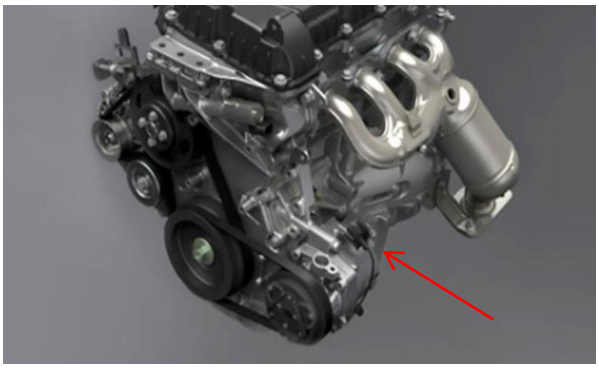
8. Remove the turbine inlet pipe

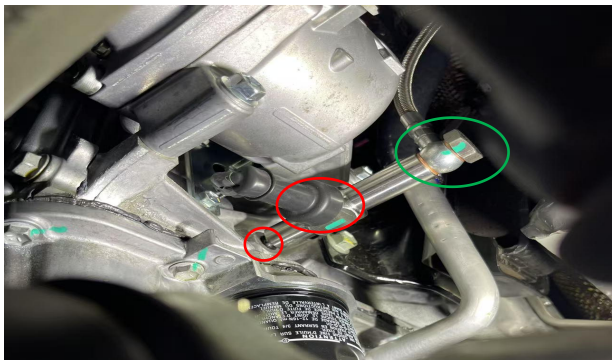




7.The oil pipes on both sides are reinforced with water hose straps

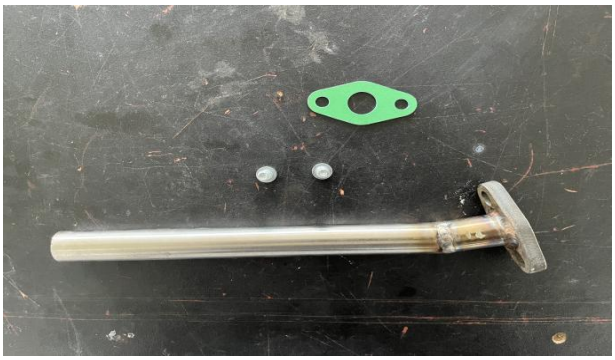
8. Install the inlet pipe to the inlet of the turbine



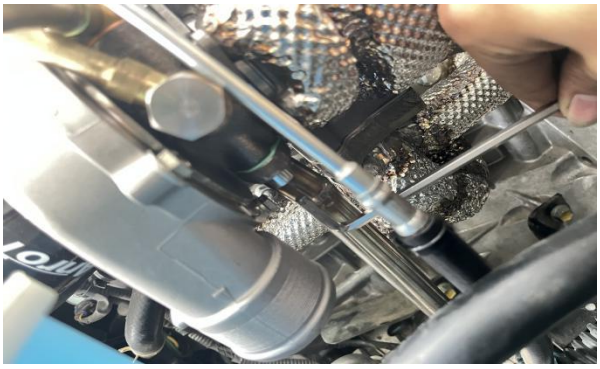


9. Locate the oil pressure sensor near the air compressor and remove the sensor

10. The area circled in red. Clean up impurities when installing. Wrap with raw material tape. Note: Do not block the oil hole. The green circle is used to press the screw tightly with copper washer before and after (no oil stains allowed after starting).



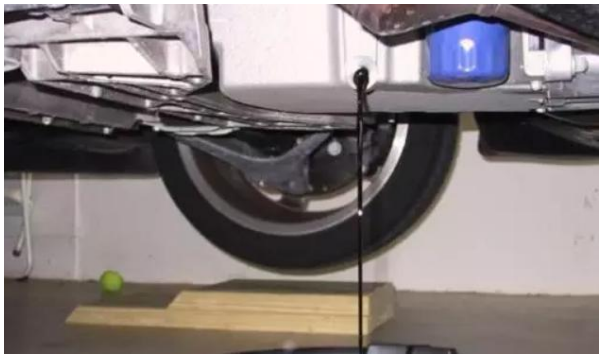
11.Remove the turbine oil pipe accessories bolts and gaskets

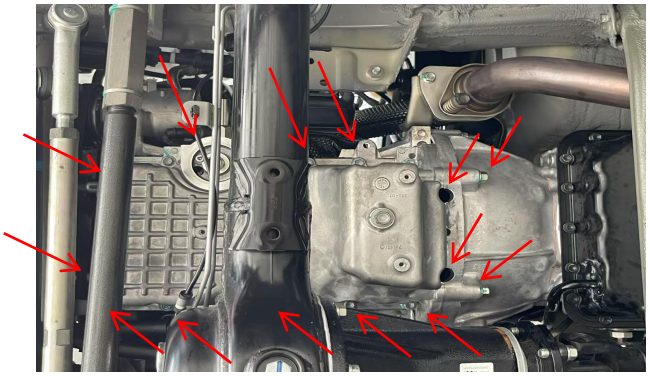




12.Install the turbine oil return pipe. Tighten the two oil return pipe screws

13. Remove the steering pull rod screws. Remove the main driver steering pull rod





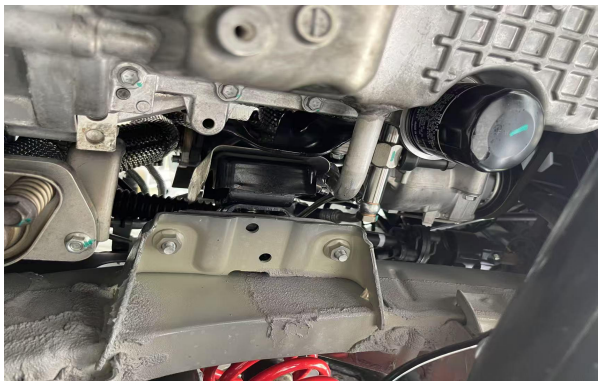
14.Release the old engine oil. Remove the oil filter at the same time. Please 15. Remove the engine oil pan to prepare for replacing the oil and the oil filter

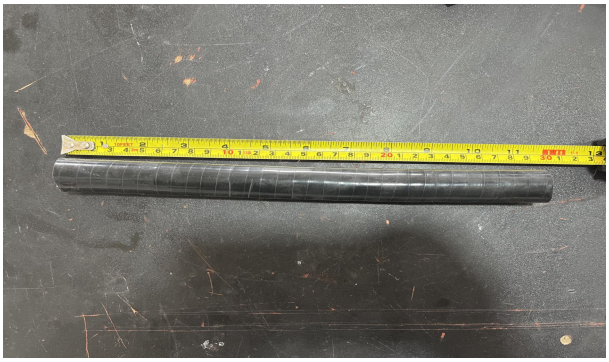




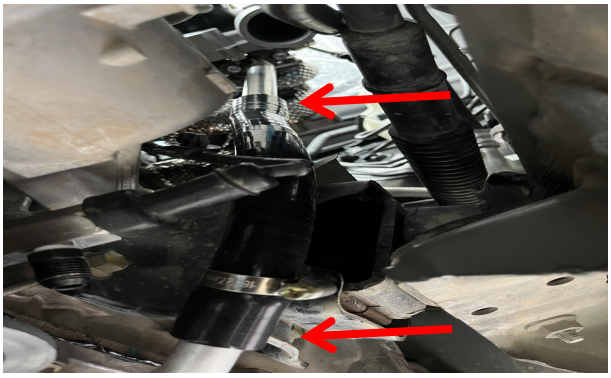
16.Clean the sealant at the oil pan connection after disassembly

17. Compare the welding position. Open the welding vortex oil pipe (position reference to the next step





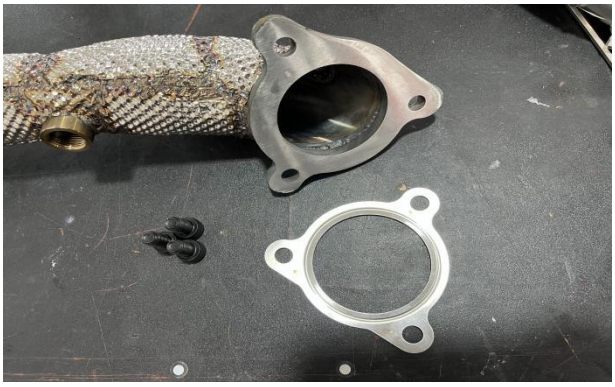
18.After welding, the oil bottom shell is re-packed with glue (pay attention to cleaning and oiling 19. Take out the turbine oil silicone tube (length 300mm) Inside the bottom shell)





20. The silicone hose connects the turbine to the oil pan. The arrow is secured with a clamp

21 Remove the exhaust pipe at the front end of the turbine





22.Remove the turbo head section fixing screws

23. Remove the bottom gasket and install it on the end of the new exhaust head





24 Install the connecting turbine outlet end. (Do not tighten the bolts)

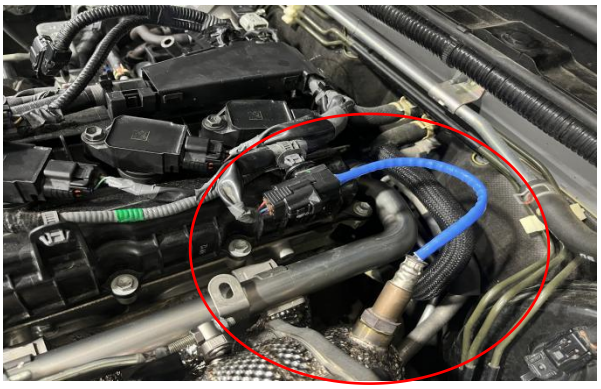
25. Install spring washer bolts at the lower end connection of the head (do not tighten the bolts)

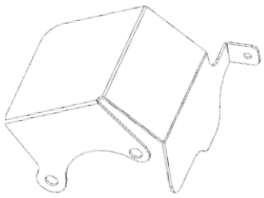




26.Install the bracket bolt at the head end

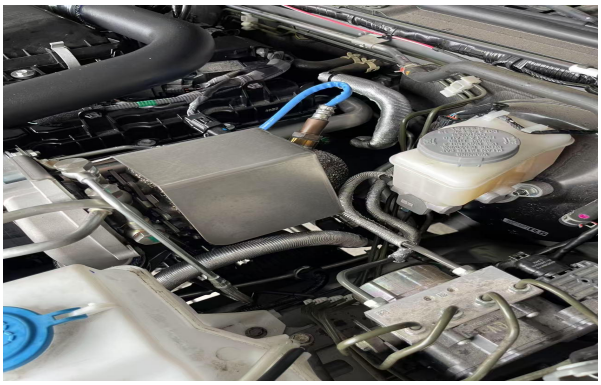
27. Remove the front oxygen sensor from the original vehicle

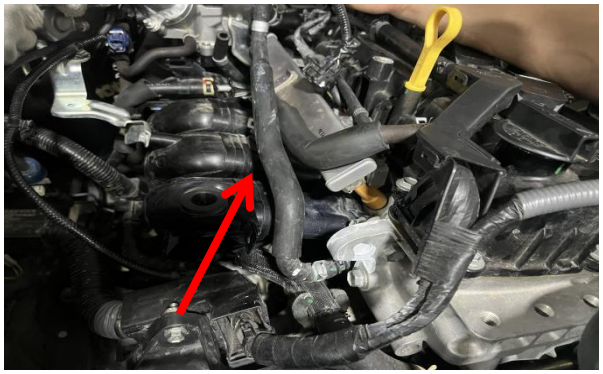




28.Install the front oxygen sensor at the head end outlet. Plug in the connector

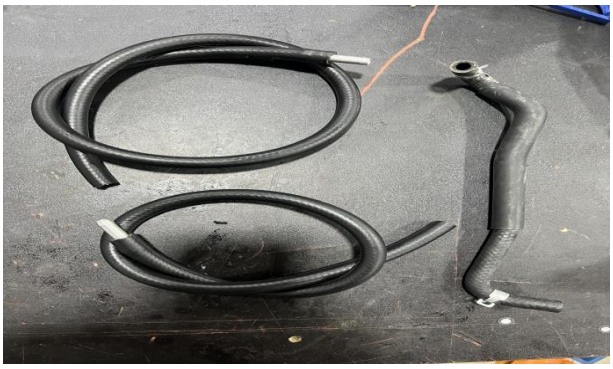
29. Remove the turbine shroud

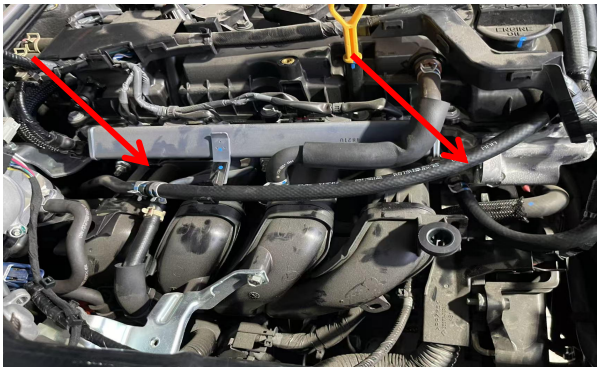




30.Install turbine insulation cover

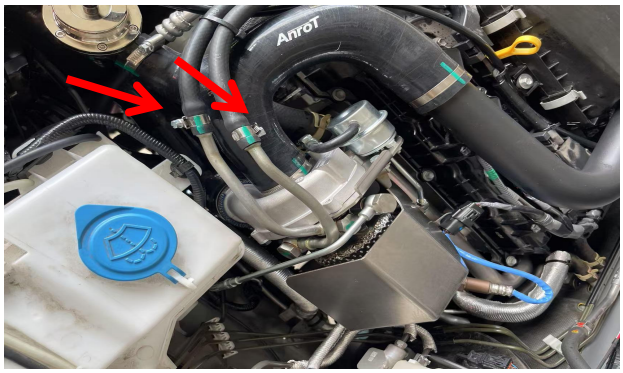
31. Remove the arrow which points to the water pipe connection

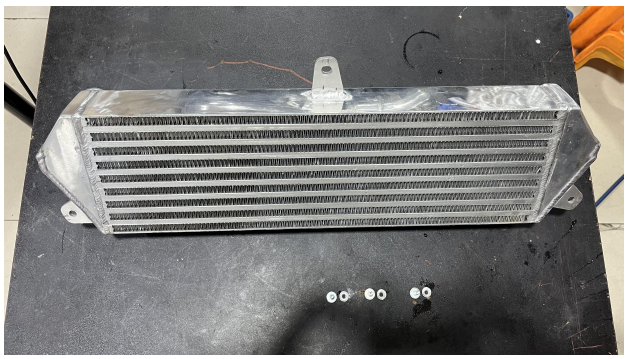




32.Remove the turbine heat dissipation connection pipe

33. Rubber hot water pipe connection arrows two measure engine connection

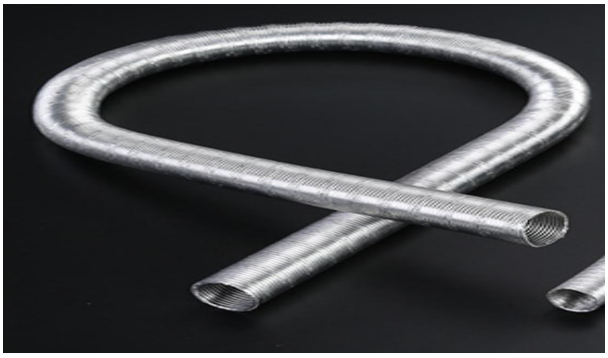




34.Connect the turbine hot water pipe (left and right) of the intercooler

35. Remove the radiator accessories





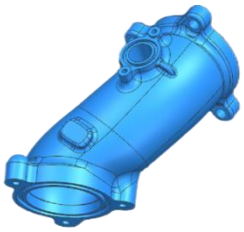
36.Install the intercooler to the radiator frame

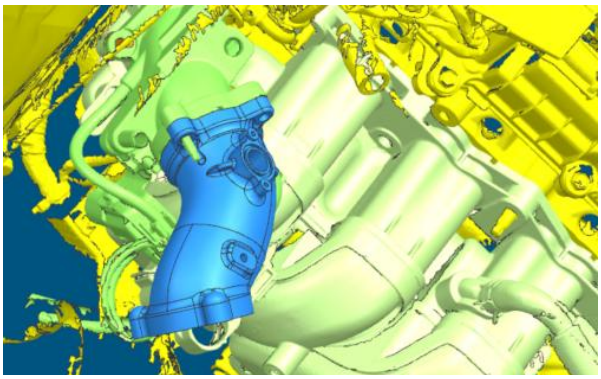
Remove the insulated piping



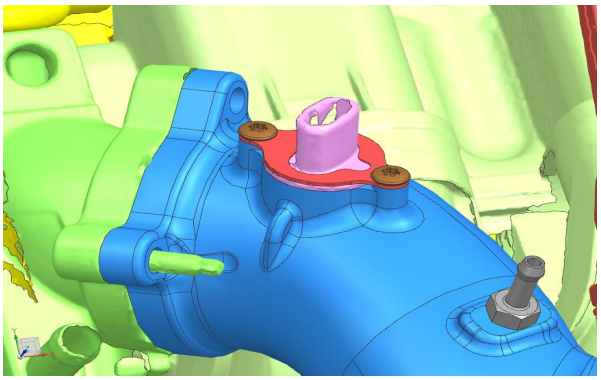


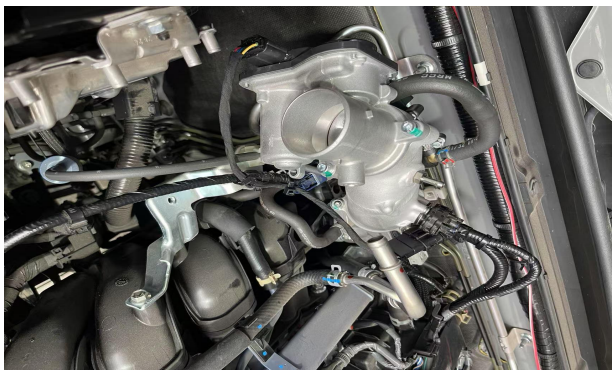
38.The compressor air conditioning pipe and brake pipe are insulated 39. Compressors, air conditioning pipes and brake pipes should be insulated





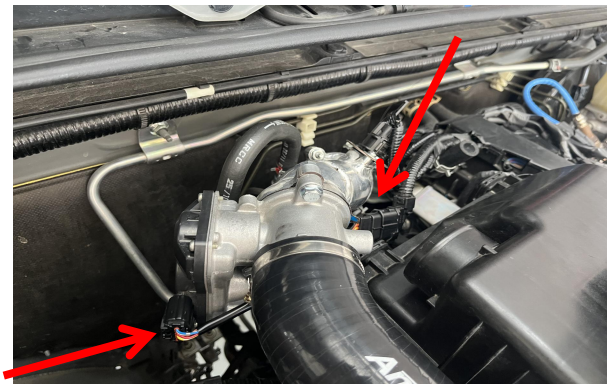
40. Remove the throttle converter 41. Install the throttle converter diagram



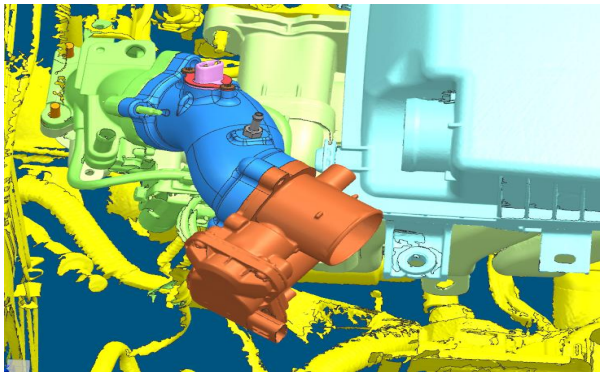


42.Install the intake air temperature sensor. Note: The gasket is installed at
43. Install the engine electronic throttle valve

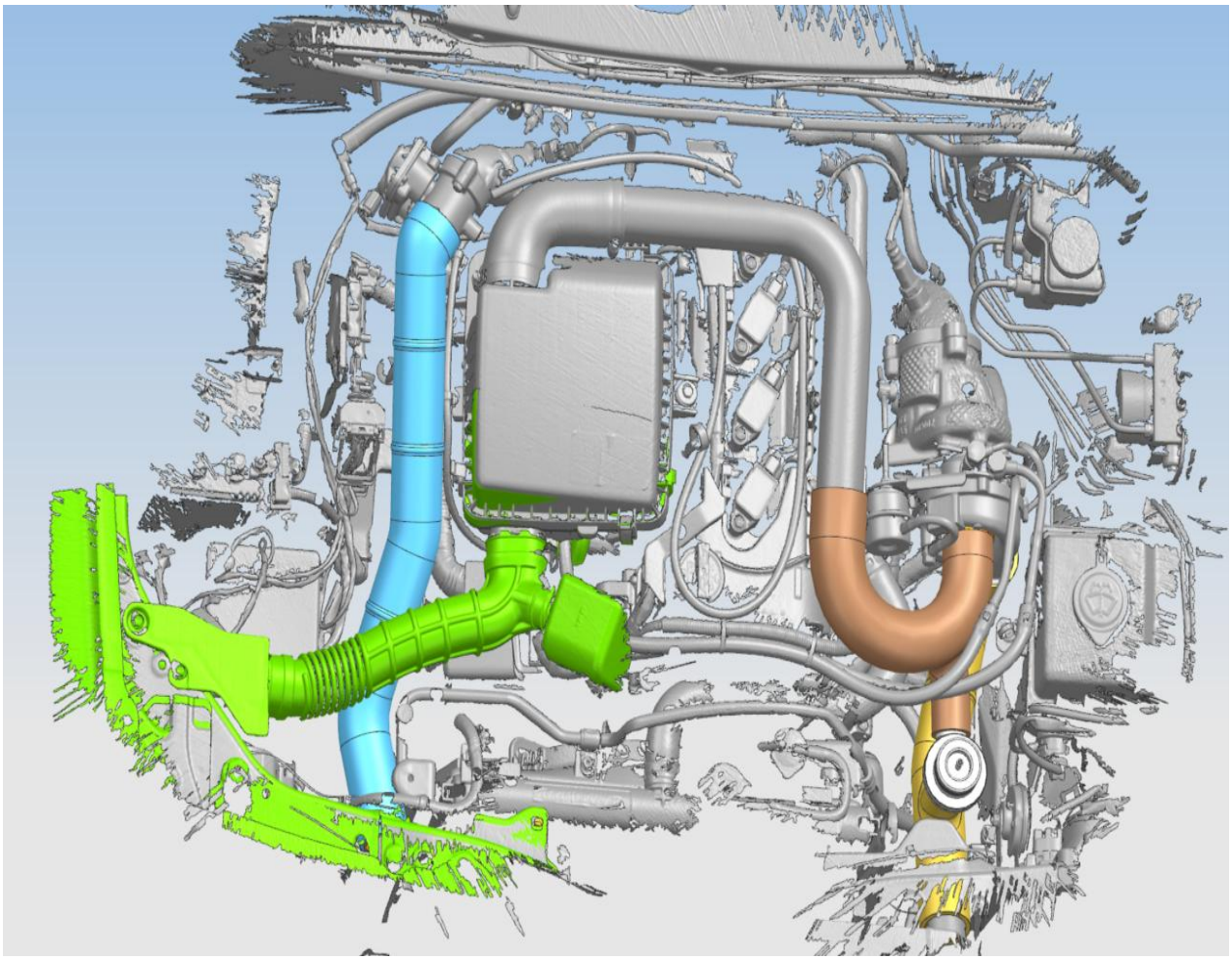




44.Remove the throttle cable extension
45. Install the throttle cable extension



46. 3D diagram of throttle converter seat



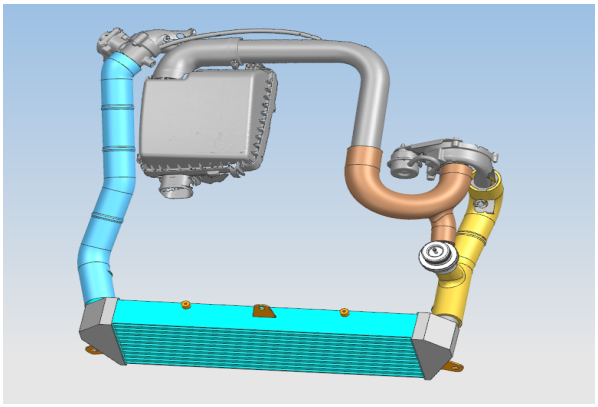
47.3D Diagram of Pipeline Installation



48.Physical diagram of pipeline installation A



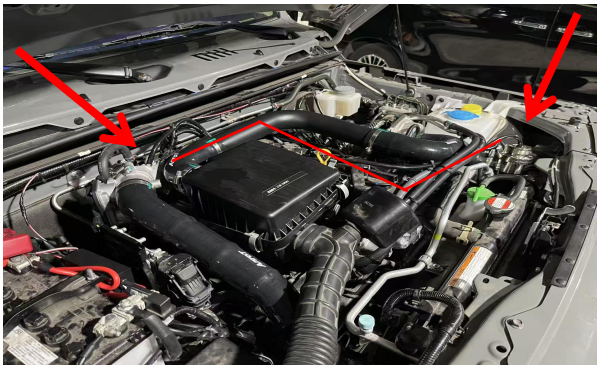
49. Entity diagram of pipeline installation B



50. Physical diagram of piping installation C



51. Remove the vacuum pipe of the pressure relief valve



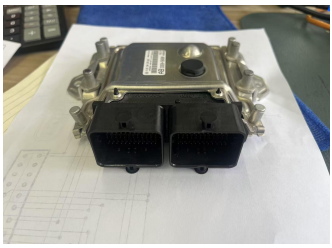
52.Install the vacuum pipe of the pressure relief valve. Secure it with a zip cord



53. Remove the oxygen shield after removing the vehicle

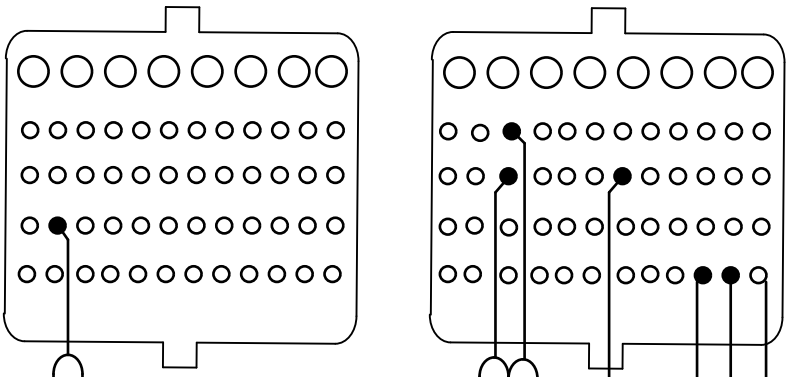


54. Install the shield at the rear oxygen sensor. Note: It must be the rear oxygen sensor



Vehicle make: Jim Ny 1.5

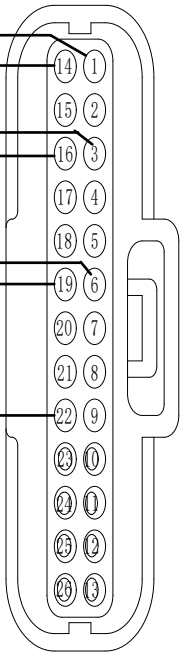
Engine type: k15B L4 1.5L



5V cement mortar

MAP OUT Brown

CKP OUT Pink

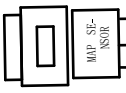


Battery 12 V

electric relay

GND

5V



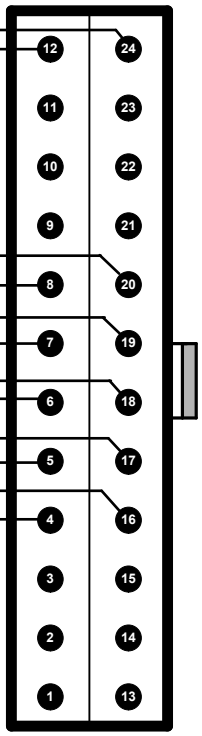
Mercedes pressure sensor A 008 153 89 2B

INJ 1 IN white/brown 1

INJ 3 IN Red 3

INJ 2 IN White 2

INJ 4 IN Green 4



GND earth wire

MAP IN brown

CKP IN Pink

INJ 1 OUT, white/brown 1

INJ 3 OUT Red 3

INJ 2 OUT White 2

INJ 4 OUT Green 4

Maintenance Guidelines

1. After installing the turbocharger, start the engine and let it idle. Check for leaks at the air intake ports and tighten any loose parts. (Be careful to keep away from moving parts) Turn off the engine and allow it to cool down. Then check the coolant level in the radiator tank.

2. After the turbocharger is installed, check whether all belts on the pulleys are properly aligned during engine operation. If belt movement is found to be left-right, contact a professional technician to determine whether the installation sequence is correct.

3. After the turbocharger is installed, check for abnormal sound and vibration in the first few kilometers of test drive.

4. Under the condition of supercharging, the turbocharger has increased noise compared with the original state of the car, which is a normal phenomenon.

5. Under pressurized conditions, the temperature under the engine hood increases, resulting in a large temperature difference. The loosening of the clamp is a normal phenomenon. Regularly check all clamps and replace them when necessary.

6. During each maintenance cycle, check the turbocharger drive belt for wear and aging. Replace it immediately if any signs of premature wear are observed. If abnormal wear recurs, alignment issues may exist. Inspect the pulley alignment or have a professional assess the problem.

7. Add 95# or higher unleaded gasoline and stick to 95# or higher gasoline later to get the best power experience

8. When maintaining, try to choose the original air filter, and avoid using the air filter with poor filtration performance, because the product or vehicle damage caused by the inhalation of debris.

9. The removed parts of the original car should be properly kept, which will be conducive to your later car inspection and other problems.

10. If the vehicle is involved in an accident and needs to be repaired on a large scale, contact the dealer for partial technical guidance.

Warm reminder: although the power is strong, please drive legally, safely and civilly