

## Video 23 (Installing the fuel pump)

For TC/SC pumps

Mark the plastic structure across from the metal rods.



Using a 5/16 drill bit, slowly increase the diameter of the hole in the plastic structure.



Do not drill all the way through the fuel pump.

Move to the structure closest to the fuel pump connector.

Cut along the height of the structure in 2 places.



Use a screw driver to spread where the structure was cut.

Pull back the spring and use pliers to remove the metal rod from the structure.



Mark about 5/8 of an inch from the end of the metal rod.

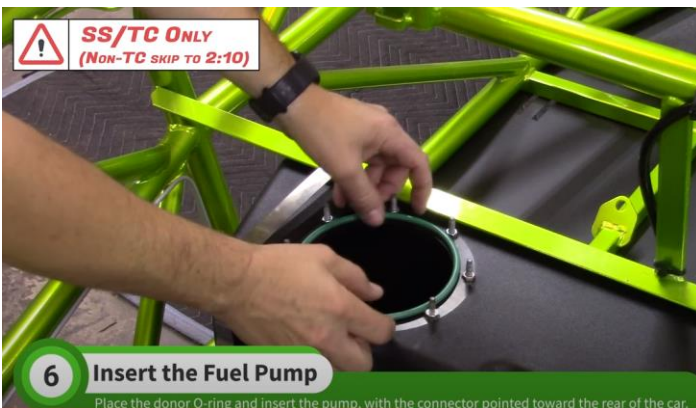
Use pliers to insert the metal rod into the hole that was drilled out.



Go until the mark is in line with the structure.

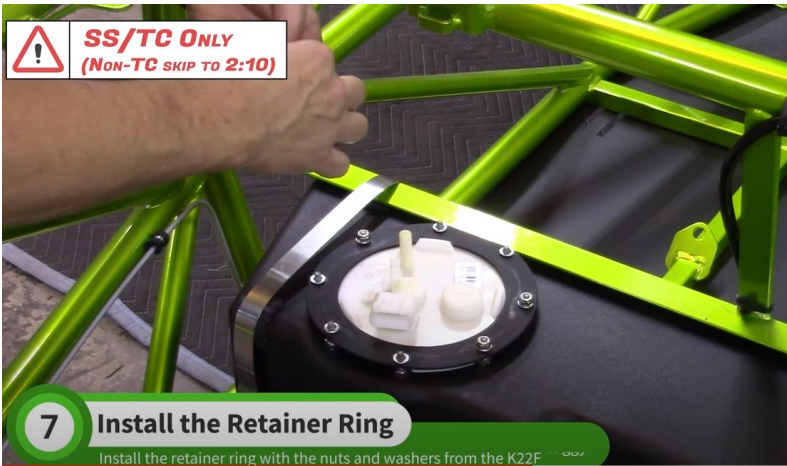
At this point the pump is ready to install.

Place the original donor o-ring on the fuel tank.



Insert the fuel pump into the tank. The connector should be pointed towards the back of the car.

Install the retainer ring onto the studs. (fuel pump should match this orientation.)



Fasten the retainer ring with the nuts and washers from the K22F baggie.

Tighten the nuts with a 10mm until they are snug with a 1/4 allen wrench under the retainer ring. Do not over tighten.



## NON-TURBO FUEL PUMP

Gently turn the fuel line over to face the same direction as the fuel pump connector.



Insert the fuel pump into the tank. Do not forget the donor o-ring.

Install the retainer ring and fasten with the nuts and washers from the K22F baggie.

Tighten with a 10mm socket and a ¼ allen wrench under the retainer ring. Do not over tighten. The fuel pump orientation should match below.

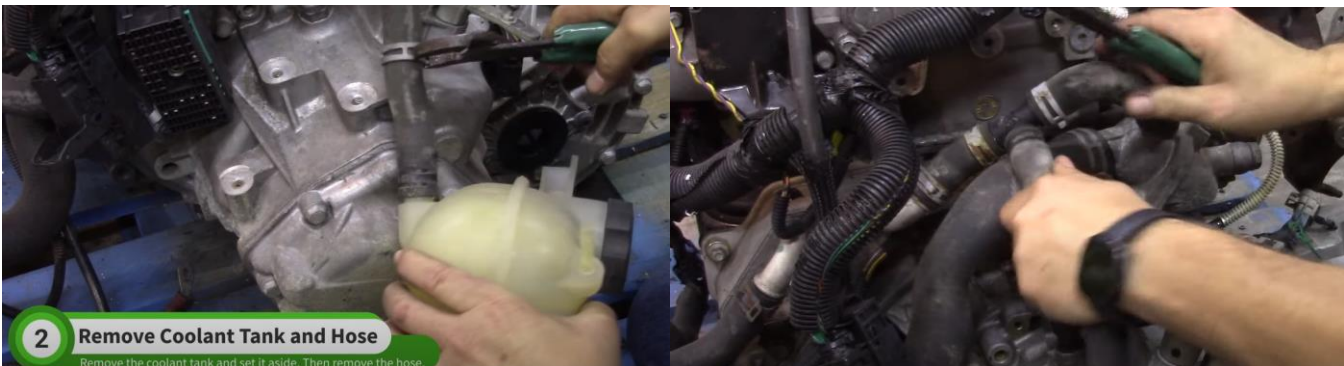


## Video 24 (Basic engine preparation)

Remove the top radiator hose for the passenger side cylinder head.

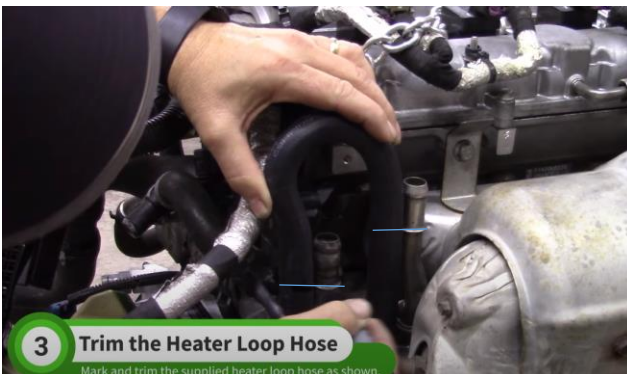


Remove the coolant tank and set it aside. Then remove the hose.



Find the small U shaped hose in the stage 1 hardware box.

Mark and trim the hose to match the heater tubes.



Cut the hose at these marks.

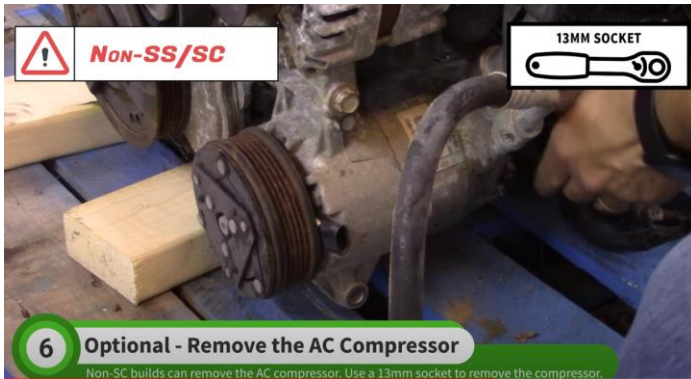
Reuse the donor clamps or use 2 #8 clamps from the K004 baggie and install the hose.



To remove the AC compressor, use a 3/8 drive ratchet to lift the belt tensioner.

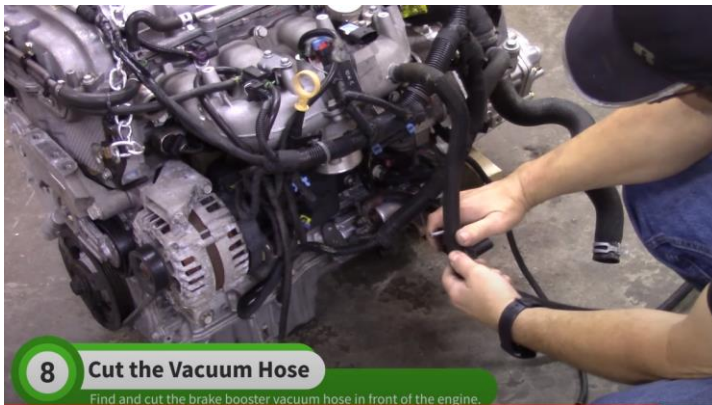
Remove the belt.

Unplug the AC compressor connector and use a 13mm socket to remove the bolts.



Use the 3/8 ratchet again to lift the tensioner and install the new belt (non-AC belt PN345K5)

Find the brake booster vacuum hose and cut it where it straightens out in front of the engine. Do not discard the cut piece.



Insert the 1/2 nylon tubing from the stage 1 hardware kit into the hose on the engine (or find a proper fitting barbed brass fitting).

Fasten it with a #6 clamp from the K004 baggie.



## Video 25 (Installing the positive cable)

Measure and cut 100 inches from the red plastic cover.



Strip the coating about 1 inch from the end.

If the wires are dirty and corroded, clean them before using. Fan out the wire and use Naval Jelly to do this.



Clean the wires.

Solder a 5/16 copper lug onto the end of the cable.

Place flux into the lug, heat and fill with solder.



Press the cable into the lug while continuing to heat the lug.

Make sure the cable is fully seated into the lug before removing the torch.



After cooling, wrap the joint with electrical tape.

Use a 13mm to remove the nut on the top stud of the starter.



Slide the cable onto the stud and reinstall the nut.



After the engine is installed, the cable will run through the tunnel of the chassis.

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## Video 29 (Installing the powertrain)

Move the clutch line out of the way by zip tying it to the fuel tank rail.



Wrap the wire harness around the driver side of the tank and over the fuel tank rail.



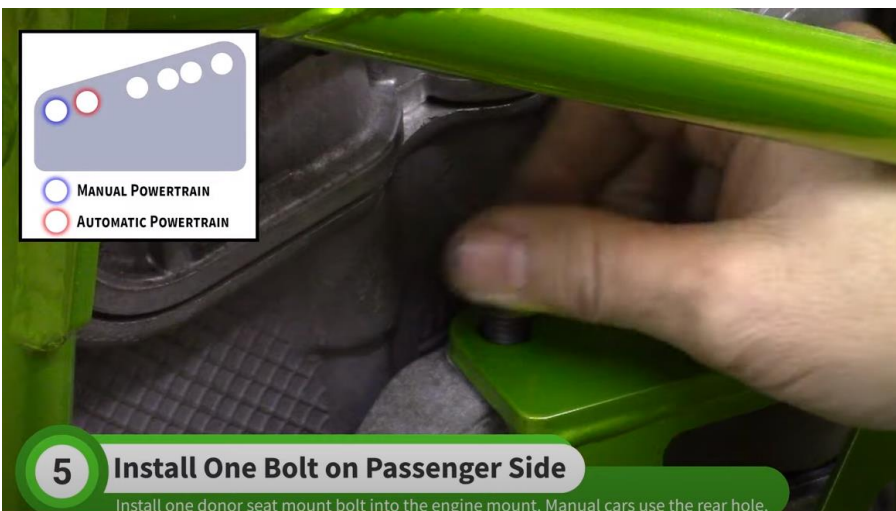
Place the engine and transmission behind the chassis.

Put the positive cable and vacuum line on the ground in front of the engine.

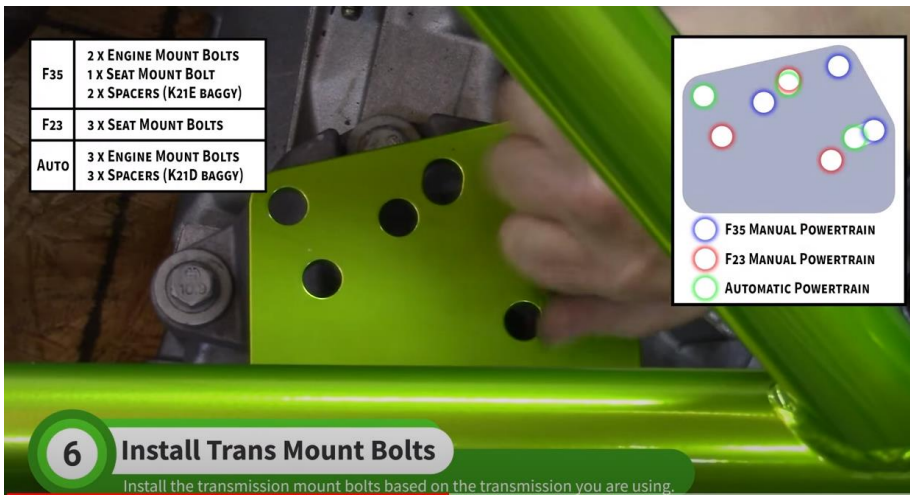
Lift the rear of the chassis up and over the engine.

Lower it down onto the engine and transmission mounts.

Install one of the donor seat mount bolts into the engine mount on the passenger side. Manual cars use the rear hole.

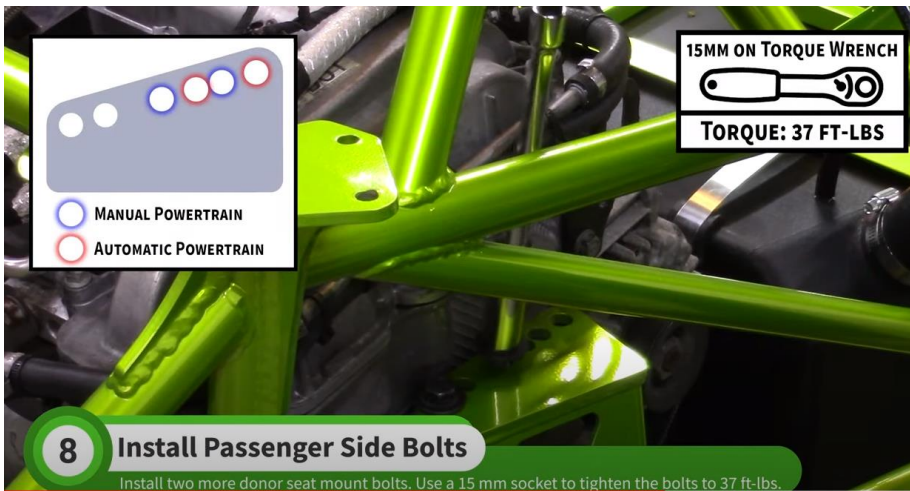


Move the driver side until the proper holes are lined up on the transmission mount. Use 3 seat bolts to secure.



Use a 15mm socket and torque the bolts to 37 FT-LBS.

Install 2 more seat mount bolts on the passenger side.



Use a 15mm socket to tighten the bolts to 37 FT-LBS.

Place the battery in the battery box to add weight to the front of the car.

Use a jack to raise the chassis back onto the jack stands. Place the stands within a couple inches of the rear of the chassis.