



## **REVO WATER + ALTERNATOR**

2013+ TOYOTA GT86 \ SCION FR-S \ SUBARU BRZ

### **START HERE**

If you are not a certified technician or mechanically competent, it is strongly recommended to reference the factory service manual before attempting any disassembly or installation. If you do not have the manual, it can be purchased here:

<http://techinfo.subaru.com/index.html>

### **TECH HELP**

If you need help with your install, please contact us at [tech@raceseng.com](mailto:tech@raceseng.com) or 610-421-6245

### **IN THE BOX**

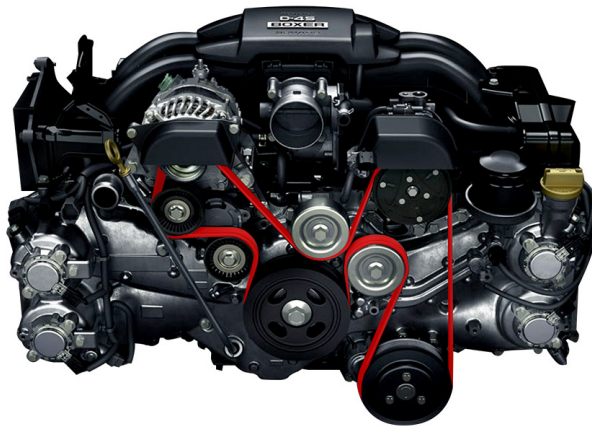
- Revo Water
- Revo Water Bolts (3)
- Revo Alternator

### **TOOLS YOU WILL NEED**

- 10, 14, 22, and 24mm Sockets
- Ratchet Wrench
- Torque Wrench (ft. lbs.)
- Electric Impact Gun

## INSTALLATION STEPS

- 1 Remove the air intake. Procedures for this vary depending on your intake setup.
- 2 Use a 10mm socket and ratchet wrench to loosen the water pump pulley bolts.
- 3 Use a 24mm socket and impact gun to loosen the alternator pulley nut.
- 4 Use a 14mm socket and ratchet wrench to turn the automatic tensioner pulley clockwise. This will release tension on the serpentine belt and allow you to remove the engine belt from the water pump and alternator pulleys.
- 5 Completely remove the water pump and alternator pulleys.
- 6 Install the Revo Water by applying blue Loctite on the 3 supplied bolts from Raceseng and hand tighten.
- 7 Install the Revo Alternator by applying blue Loctite on the factory nut and hand tighten.



- 8 Reference the belt diagram above to reinstall the serpentine belt. Reinstall the belt on all of the pulleys but leave the belt off the Revo Alternator pulley.
- 9 Using a 14mm socket and ratchet wrench, turn the automatic tensioner pulley clockwise and install the belt onto the Revo Alternator pulley. Slowly release and make sure the belt is properly seated on all of the pulleys.
- 10 Torque the Revo Water bolts to 11 ft. lbs. Use an impact gun to tighten the Revo Alternator or torque to 55 ft. lbs.
- 11 Place the vehicle in neutral gear position, disengage the parking brake and rotate the crank using a 22mm socket and ratchet wrench. Make sure the belt is seated properly on each pulley before starting the car.
- 12 Start the engine and double check that the belt is properly rotating on each of the pulleys. Also, check the Revo Water and Alternator pulleys to make sure they are not wobbling. If a pulley is wobbling, double check the installation.
- 13 Enjoy your new driving experience.