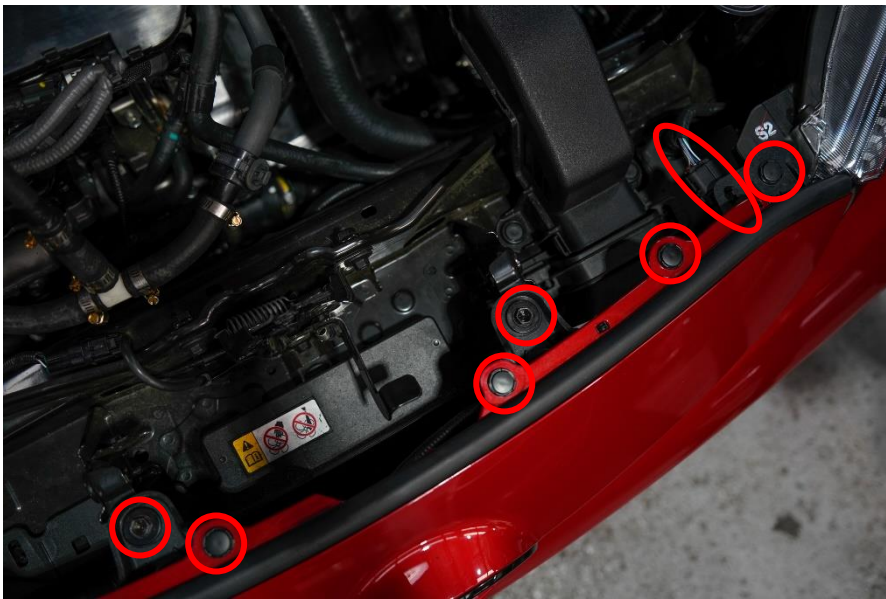


PLAZMAMAN GR YARIS INTERCOOLER INSTALL

BUMPER REMOVAL

1. Remove the six plastic clips and two 10mm bolts fixing the top of the bumper to the vehicle.



2. Undo the electrical connector for the bumper's collision sensor, located to the left of the passenger headlight when facing the front of the vehicle.
3. Underneath the bumper, undo the 10mm bolts fixing the bumper to the vehicle.



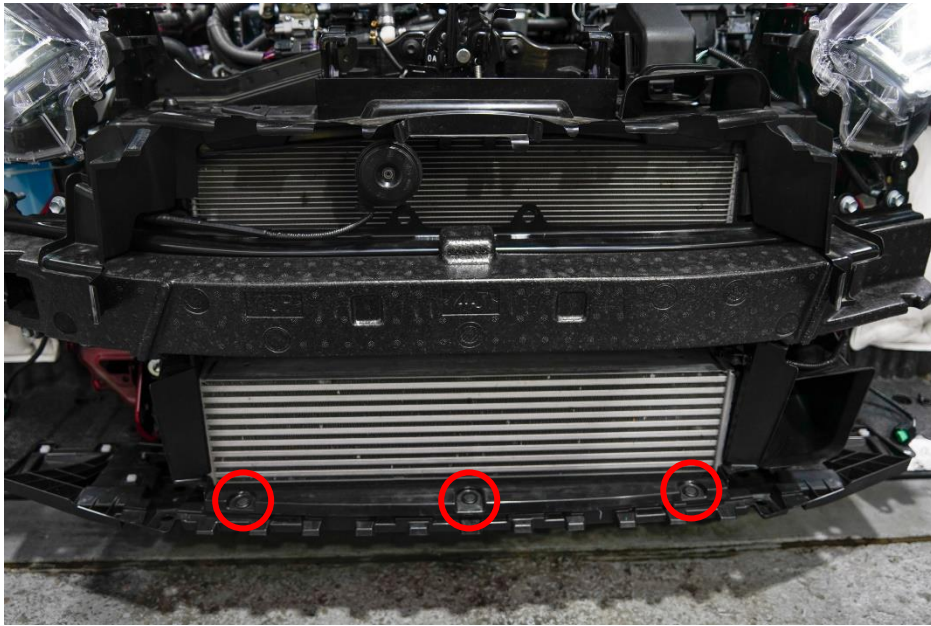
4. Undo all remaining 10mm bolts and plastic clips near the front bumper, underneath the vehicle. Ensure all fasteners fixing the under-vehicle insulation to the crossmember are removed.
5. Detach the large plastic clips in the front wheel wells fixing the bumper to the wheel liner. There are two in each wheel well.
6. Once the bumper and wheel liner are detached from each other, undo the 10mm bolt that attaches the front bumper to the wheel fender. There is one bolt on each side of the vehicle,

located where the fender and bumper meet. **Note: There are colour coded clips that may fall out once these bolts are removed. Make note of which clip belongs to each side for reinstallation later.**

7. Undo the electrical connector from each fog light.
8. At this stage, the front bumper should be ready for removal. Unclip the bumper from underneath each headlight and remove the bumper.

OEM INTERCOOLER REMOVAL

1. Remove the three plastic clips attaching the intercooler shroud to the crossmember. Remove the intercooler shroud **(This piece is not reinstalled with the Plazmaman intercooler).**



2. Remove the three plastic clips attaching the air intake duct, located to the right of the intercooler when facing the engine bay. Detach the clips holding the sensor near the duct.
3. Loosen the hose clamps fastening the intercooler hoses to the OEM intercooler.
4. Remove the three bolts fastening the oem intercooler to the vehicle. There are two bolts on the passenger side, and one bolt on the driver's side.
5. Remove the OEM intercooler, making sure not to lose the rubber mounting bush on the underside of the intercooler.

PLAZMAMAN INTERCOOLER INSTALLATION

1. Remove the fasteners securing the plastic under tray, under the radiator crossmember. Remove the plastic undertray.
2. Remove the four 12mm bolts securing the radiator crossmember to the vehicle. Ensure the radiator is supported during this process in order to avoid damage.



3. As the crossmember drops down, lift the radiator up, ensuring the rubber radiator mounting bushes are removed from the crossmember.
4. Install the Plazmaman radiator relocation brackets, ensuring the driver's and passenger's brackets are in their correct positions. When installed correctly, "DS-UP" will be readable (not backwards) on the driver's side, and "PS-UP" will be readable on the passenger side.
5. Position the radiator bushes into the Plazmaman brackets, whilst installing the supplied longer fasteners and washers. **The radiator bushes will no longer sit in the factory holes and are designed to sit further back on the crossmember, where the new brackets position them.**
6. Tighten the new, longer fasteners with washers.
7. Install the intercooler bush from the OEM intercooler onto the new Plazmaman intercooler.
8. Install the new Plazmaman intercooler onto the vehicle, making sure all three mounting bolts are fastened tight, and the intercooler bush fits snugly in its mount on the radiator. Tighten the charge pipe hose clamps once the intercooler is securely fastened.



9. **Optional:** If desired, trimming of the oem plastic intercooler shroud may present the intercooler better for a cleaner look. On the passenger side, be sure to leave the mounting hole for the air temperature sensor intact (circled in red).



10. Your new Plazmaman intercooler is now installed. Follow these instructions in reverse for reassembly. There should be four 12mm bolts, three plastic clips, the lower intercooler shroud and the oem intercooler left over once reassembly is complete.