



Mini R5x Heavy Duty Aluminum Expansion Tank Installation Instructions - [Click HERE to Shop](#)



Skill Level
1 - Easy
Basic Skills
Required



Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

INSTALLATION NOTES

- **RH** refers to the *passenger side* of the vehicle.
- **LH** refers to the *driver side* of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

ECS Tuning cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.



NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

HEAVY DUTY EXPANSION TANK INSTALLATION

Step 1: Hose Clamp Pliers

With the engine cold, open the expansion tank cap and extract as much coolant as possible. The goal is to drain enough of it to remove the stock expansion tank without making a mess.

Compress the clamp (arrow) and disconnect the upper coolant hose (highlighted in **RED**) from the expansion tank, freeing it from the plastic clip.



Step 2: T20 Torx Socket & Ratchet

Remove the screw (circled in **RED**) that secures the expansion tank to the core support, then rotate the expansion tank upward to pop it free from the mounting grommet.

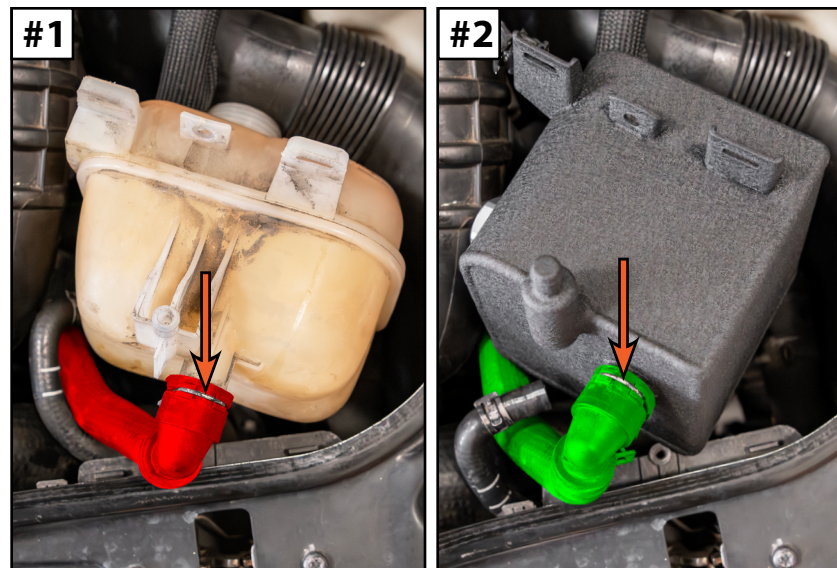


HEAVY DUTY EXPANSION TANK INSTALLATION

Step 3: Angled Pick

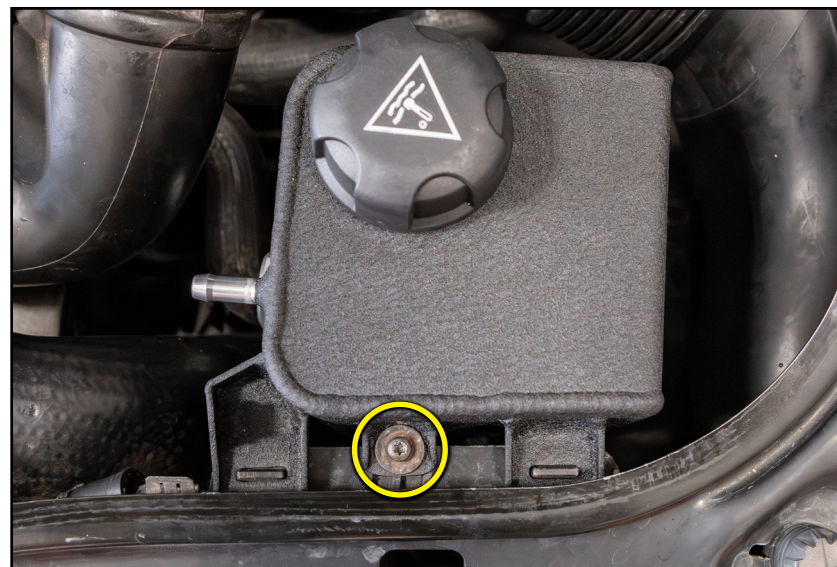
Pull the expansion tank upward, disengage the retaining clip (arrow) and pull the lower coolant hose (highlighted in **RED** in **Photo #1**) free from the expansion tank.

Slide the lower coolant hose (highlighted in **GREEN** in **Photo #2**) onto the new expansion tank, ensuring the retaining clip snaps back into place.



Step 4: T20 Torx Socket & Ratchet

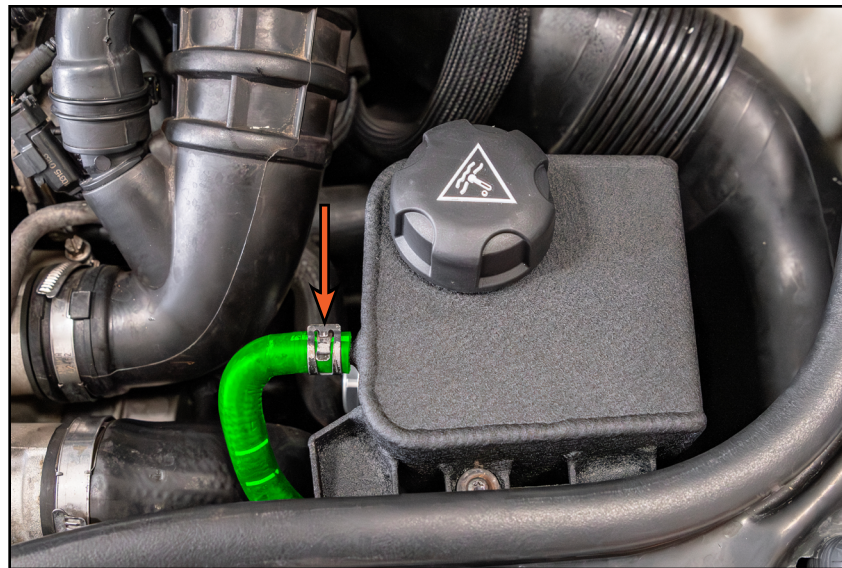
Slide the mounting post on the new expansion tank back into the mounting grommet, then reinstall the screw (circled in **YELLOW**) to secure expansion tank to the core support.



HEAVY DUTY EXPANSION TANK INSTALLATION

Step 5: Hose Clamp Pliers

Slide the upper coolant hose (highlighted in **GREEN**) onto the new expansion tank and slide the clamp (arrow) back into place.



Step 6:

Fill the expansion tank with new coolant, bleed the cooling system, check for leaks, then install the expansion tank cap. Start the engine and bring it up to operating temperature, then allow it to fully cool before correcting the coolant level.



- The ECS logo inside the tank serves as the fill gauge. Once the coolant rises up to the logo plate it is full. The sight glass on the side of the tank can be used to check coolant level when the engine is hot.

- Coolant level should only be adjusted when the engine is **COLD** and when the vehicle is sitting on a level surface.



Your Heavy Duty Aluminum Expansion Tank installation is complete!



These instructions are provided as a courtesy by ECS Tuning

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