

How to Rebuild an Engine

Rebuilding an engine is a big job, but planning smartly for a successful rebuild project can help eliminate the possibility of costly mistakes, saving you time, energy, and frustration. Learn to remove and reinstall your engine block, as well as how to disassemble and inspect the components to restore your engine to like new condition, or to customize it for maximum performance.

Thoroughly clean the engine before beginning if possible.

Position the vehicle near your hoist.

Organize your work area before you begin.

Remove the hood. .

Start disconnecting the external engine components.

Remove the bolts that attach the transmission's bell housing to the engine.

Use the hoist to remove the engine.



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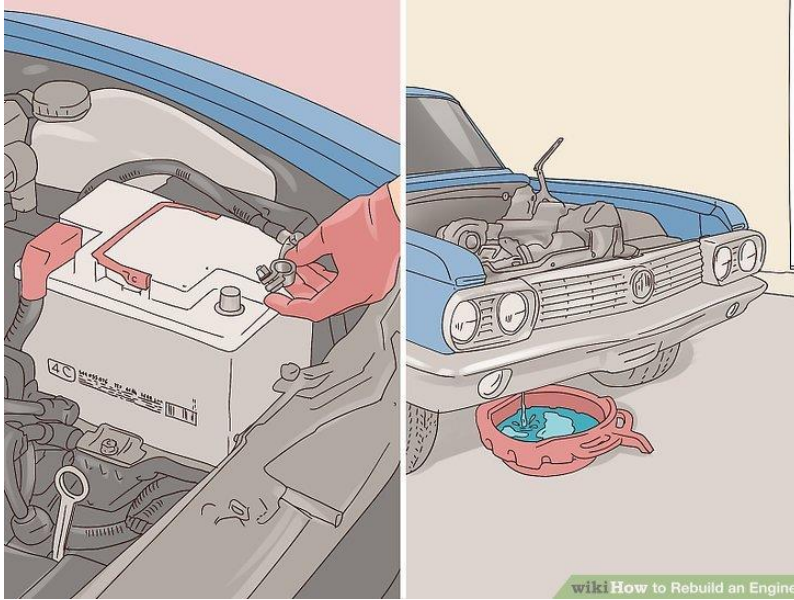
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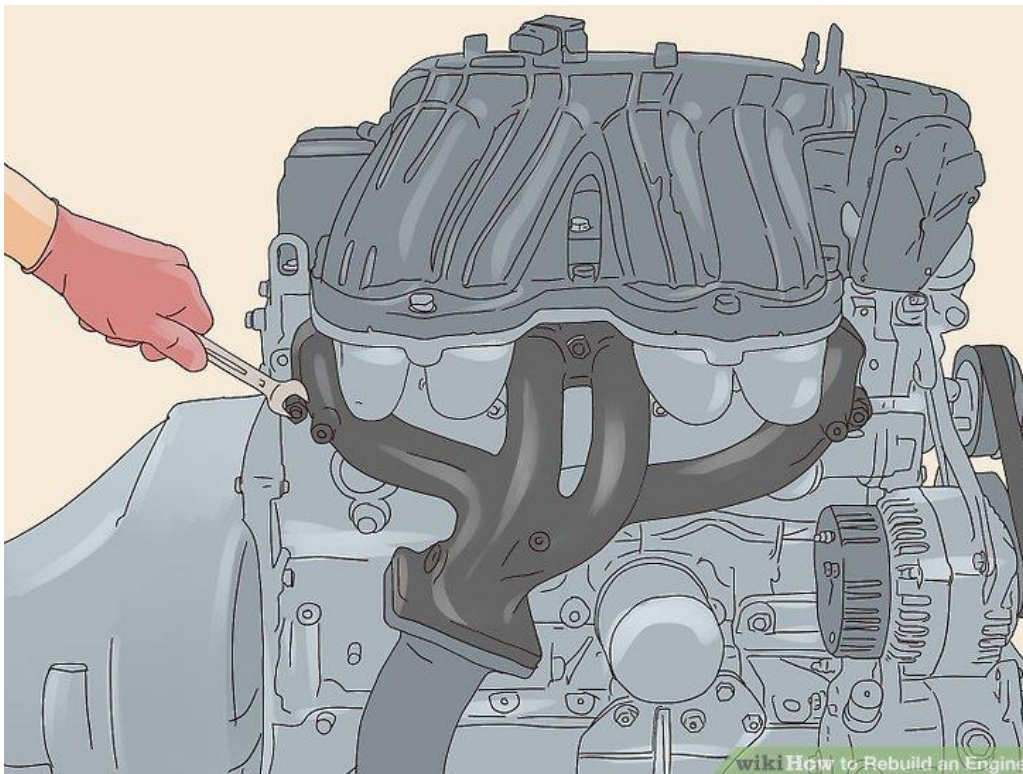


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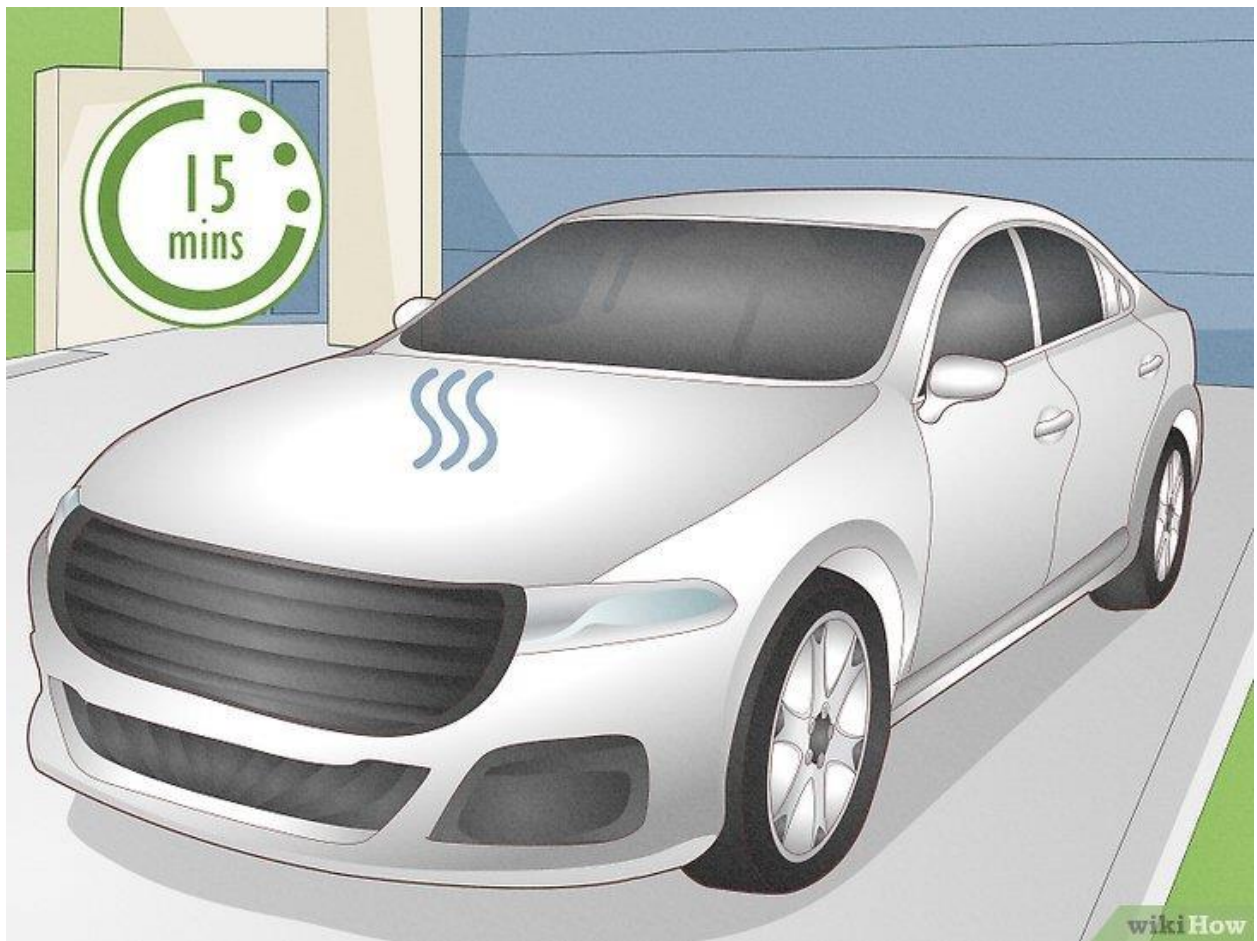


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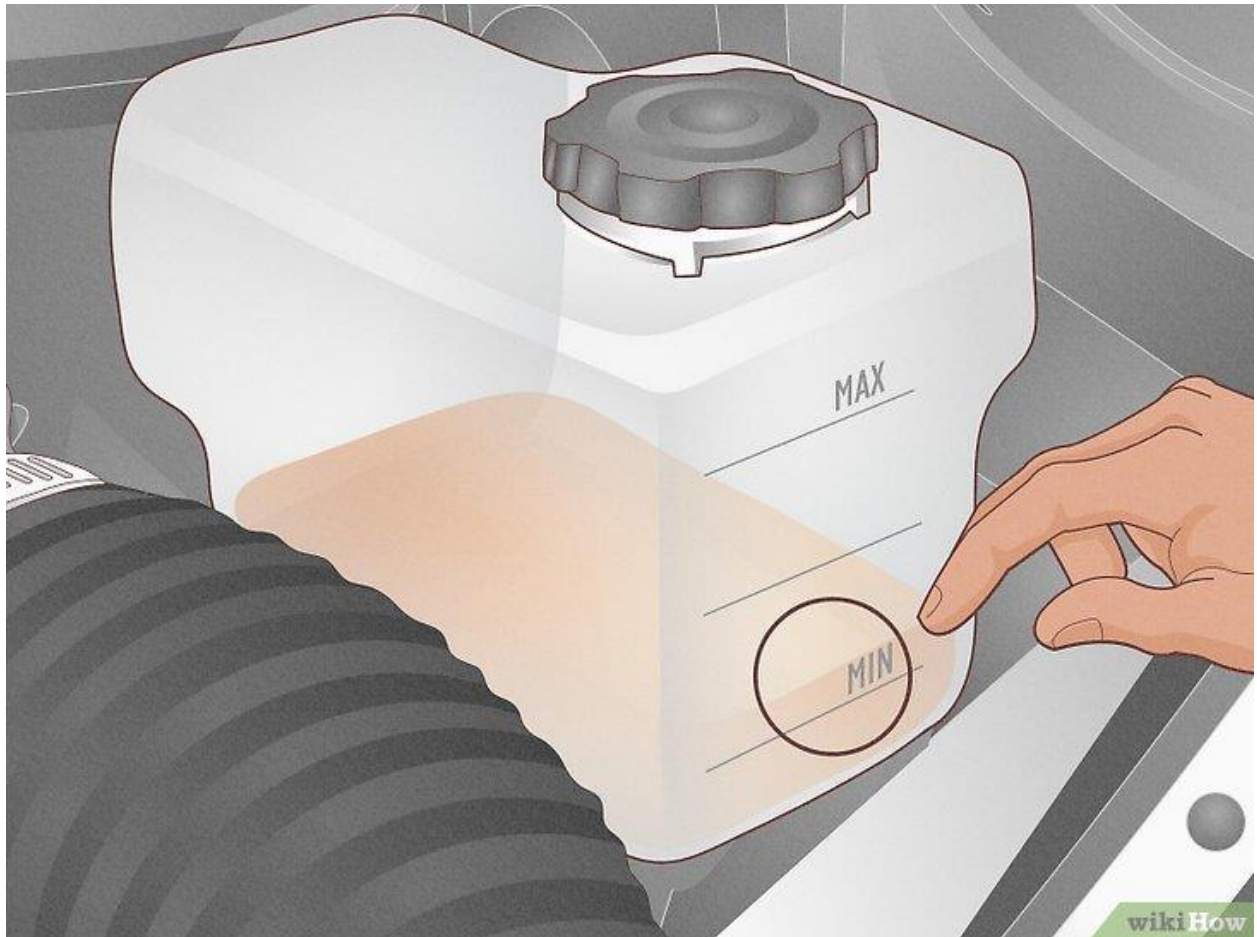
How to fill coolant in car

Having ample engine coolant is vital to keeping your car running smoothly. You'll need to top up your coolant reservoir, which is found under the hood and near the engine, once or twice a year, otherwise your car's internal parts may become damaged. We'll show you how to do just that, as well as fill you in on exactly when you'll need to add or replace your coolant to keep your car ship-shape.

- 1. Park your car on a flat surface and let it cool for 15 minutes.** If you can, park on level ground to get a more accurate gauge of your coolant levels. Then, let the engine cool down for 15-20 minutes.
- 2. Pop the hood and locate your coolant reservoir.** Open your car's hood (often by pulling a lever by your driver's seat) and take a look at your engine block to find the coolant reservoir. Often, it's a white, semi-translucent tank near the engine.^[2] It's sometimes labeled with "COOLANT," a thermometer symbol, or just a warning not to touch it while it's hot.
- 3. Check your coolant levels with the fill lines on the reservoir.** Most reservoirs have labels on the side reading "MIN," "MAX," or, "FILL LINE," which indicate the minimum amount of coolant you should have, the maximum amount, or to which level you'll fill the reservoir, respectively. Compare the amount of coolant in your reservoir to these lines (the reservoir is semi-translucent for exactly this purpose).
- 4. Remove the reservoir cap and add coolant to the fill line.** Unscrew or pop off the cap to the reservoir (make sure it's totally cooled off, first), then, for easier application, place a funnel in the opening. Carefully pour [coolant](#) into the reservoir until the level reaches just below the MAX or FILL LINE.^[4] Take care not to overfill it, which may cause damage to the reservoir.
- 5. Turn on the engine and check for any coolant leaks.** Let the engine run for about 5 minutes to let it take in new coolant. The coolant level in the reservoir may go down, but that's normal. While the engine is running, examine the pipes and connections that lead to the reservoir, and take note of any apparent leaks. If you spot dripping liquid, take your car to a mechanic sometime in the next couple weeks to have it professionally examined
- 6. Check your coolant twice a year.** If your engine is healthy and your car is running as usual, check your coolant once in the spring and once in the fall.
- 7. Add coolant if your car is running hot.** Keep an eye on the temperature gauge on your dashboard, just behind the steering wheel and marked with a thermometer symbol. If the needle on the gauge points to red, you might either be lacking coolant, or your car's cooling system may be faulty.^[7] Check the reservoir to see if the coolant is low. If there is coolant, but your car is running hot anyway, consult a mechanic immediately to diagnose the problem.



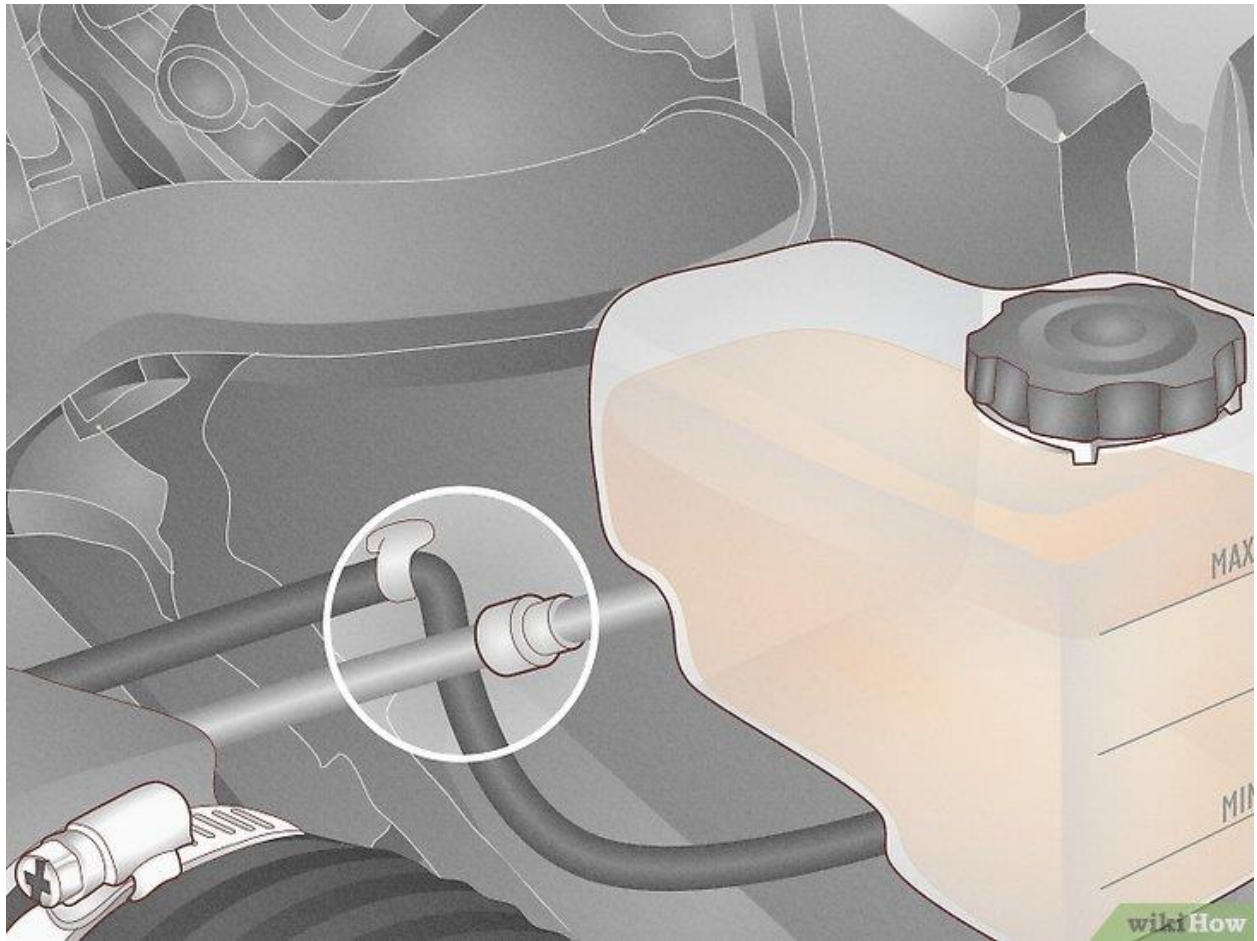
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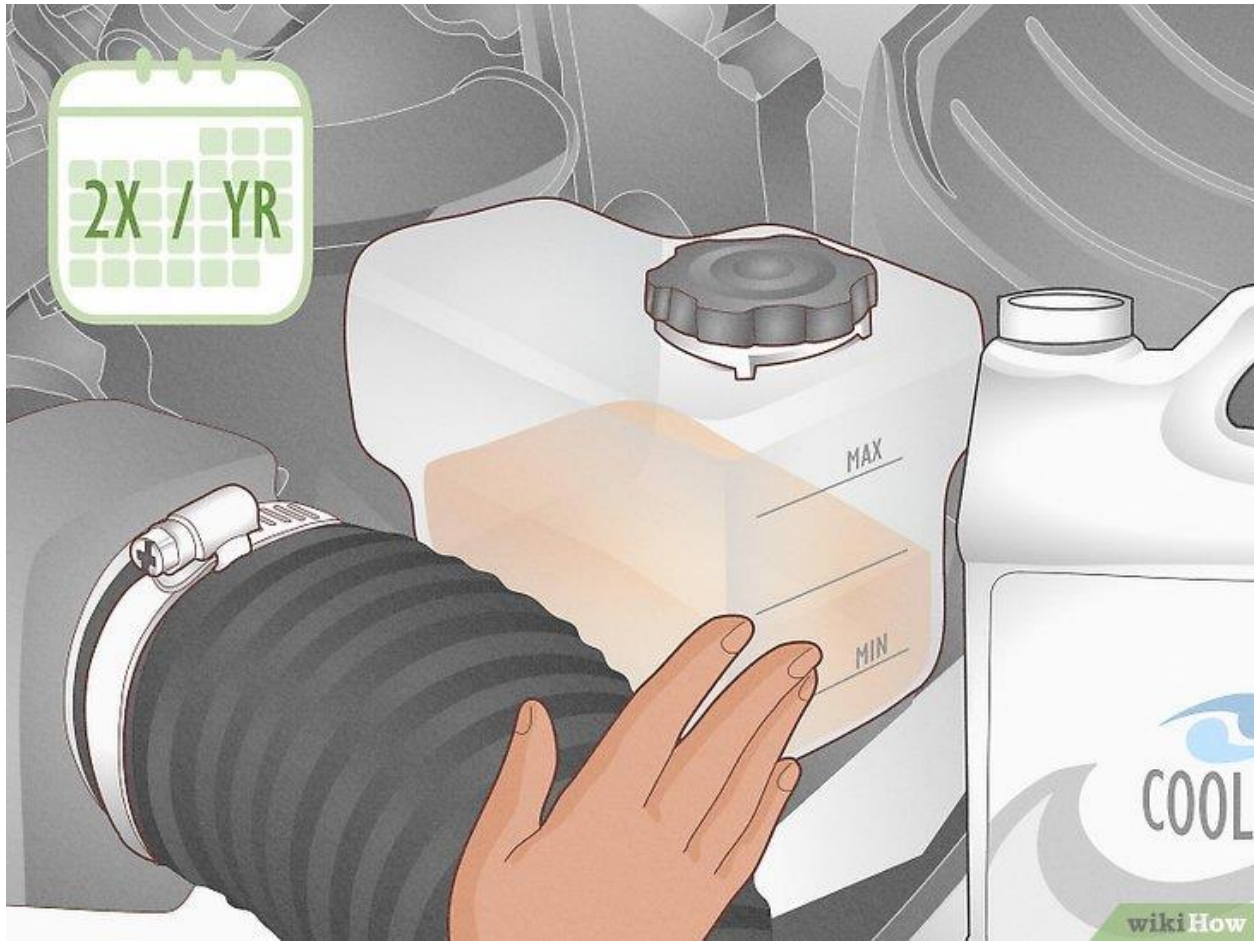
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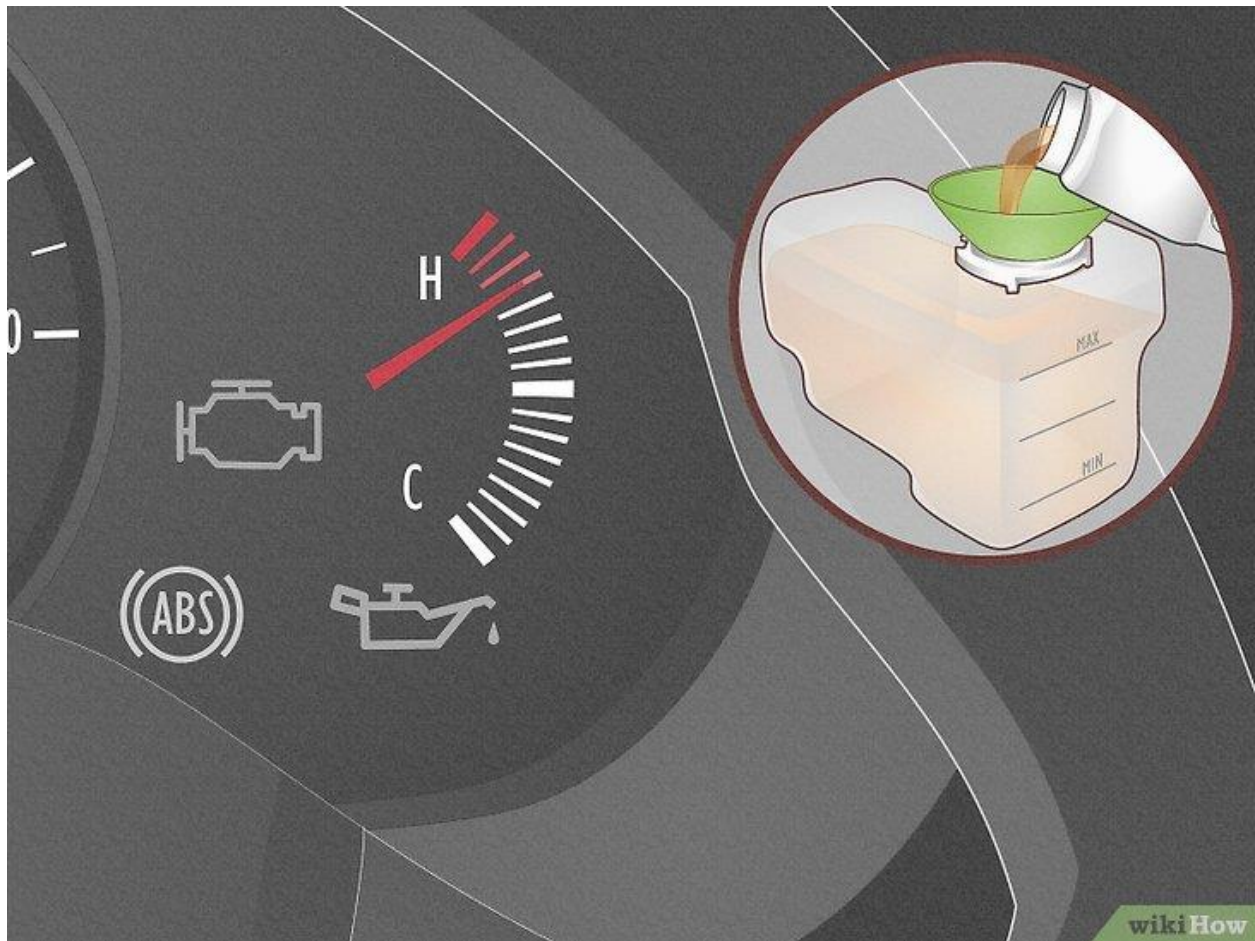
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