

A step-by-step guide to changing your own motor oil

The use of a technically advanced motor oil with superior lubricating qualities and adherence to a good maintenance schedule has never been more important.

Today's high performance, fast burn and fuel-efficient engines are placing a greater demand on motor oil than ever before. They start up and take off more quickly, and produce searing heat that can begin to break down an oil immediately.

The oil change recommendation offered by the vehicle manufacturer can be found in the owner's manual. The "normal service" recommendation represents the maximum allowable drain interval under ideal driving conditions.

However, for excessive short trip driving, stop-and-go traffic, dusty road conditions or extreme hot or cold weather, the oil should be changed more frequently, following the guidelines for severe service conditions.

Never exceed your automaker's warranty requirements and, in all cases, consult your owner's manual for special requirements. Generally, changing motor oil and oil filter every 3,000 miles or three months (whichever comes first) will afford superior engine protection and long engine life.

Materials you will need

- 1) Approximately five quarts of motor oil. Check your owner's manual for the proper SAE viscosity, API performance and quantity required for your engine.
- 2) New oil filter: Most cars use "spin-on" type, available in various sizes. Check your manual for type and size.
- 3) Drain plug socket wrench or open end wrench (exact size), plus an oil filter wrench.
- 4) Large drain pan, six to eight quart capacity.

Safety first

- Read your owner's manual for specific safety precautions before going under the car.
- Do not use a bumper jack to hold up car while underneath. (Portable wheel ramps if available, are ideal and safer.)
- Put car in gear or "park." Set brakes and chock both wheels with wooden blocks to prevent car from rolling.
- Do not start engine without oil.
- Follow local ordinances when disposing of drained oil.

Step one

Warm engine to its normal operating temperature (about five to 10 minutes idling).

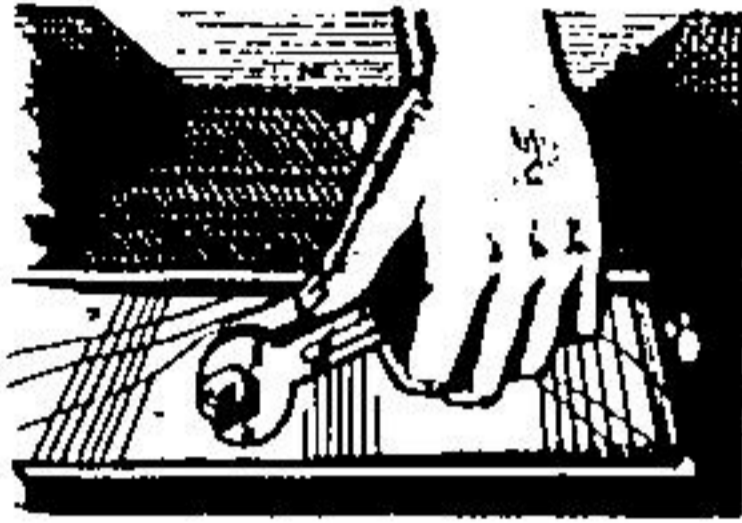
Switch off engine. Raise the hood, locate the oil filler cap and loosen it.

Step two

Locate the oil drain plug underneath the car, at the bottom rear end of the engine sump (or oil pan). Do not loosen the

automatic transmission drain plug, usually located further back. (When in doubt, refer to your owner's manual.)

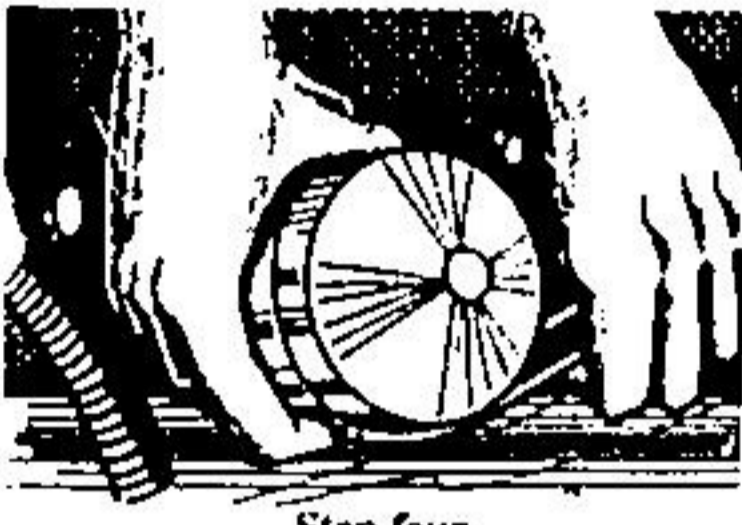
Place the drain pan beneath the drain plug and slightly towards the back. Engage the plug with your wrench and turn it counterclockwise until it rotates freely. Finish removal by hand. Be careful of hot oil, and avoid dropping plug into drain pan.



Step three

Loosen oil filter (it may be hot) by turning it counterclockwise with a filter wrench. Avoid touching the hot exhaust manifold. Complete removal of the filter manually, catching it in your hand.

If filter is installed "threads up," it will be filled with oil and slightly heavy. Ease it down and away from engine, then tip it over into the drain pan.



Step four

Clean in and around the filter seat on the engine with a rag. Take a new filter and apply a light oil film to gasket (this film provides necessary sealing).

Carefully screw the new filter onto the threaded oil line, turning it clockwise. Once aligned properly, the filter will thread on easily. Snug up tightly by hand. Do not use a wrench or overtighten.



Step five

Clean the oil plug and drain seat. Align and replace the plug; screw it in carefully by hand and avoid "cross threading." Tighten the plug firmly or snugly with a wrench. Do not over-tighten.

Step six

Fill the engine with the required quantity of oil. Check oil dipstick to assure proper fill level. The oil light should go out soon after the engine is started.

Run engine for several minutes, turn off engine and recheck oil dipstick to assure proper oil level. Then check under the car for leaks. Keep a written record of the current mileage and date in the glove compartment.

For the finest engine care, use premium motor oils. Castrol GTX Super Multi-Grade is a high performance motor oil that is designed to meet the needs of today's high revving, hot running, fast burn engines. It is a shear stable motor oil that, in every grade, provides maximum protection against viscosity and thermal breakdown.

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Castrol GTX motor oils are Turbo Approved, and exceed the performance requirements of all turbo gasoline and turbo diesel passenger car engines.

Precautions to follow

- Prolonged and repeated skin contact with used motor oil should be avoided;
- Wash thoroughly with soap and water to remove motor oil from skin. Do not use gasoline or other organic solvents.
- Skin contact with clothing that is oil-soaked should be avoided. Oil-soaked cloths should be washed before re-use. All oil-soaked articles that are unwashable should be discarded.
- Dispose of used oil in accordance with Federal, state and local regulations. If possible, deliver to a certified used oil reclamation center. Protect the environment and dispose of used oil properly.

CAUTION: Prolonged and repeated skin contact with used motor oil may be harmful.

Used motor oils have been shown in laboratory tests to cause skin cancer in mice. No direct evidence exists of similar effects to humans in normal anticipated use. However, there may be a potential risk from prolonged or repeated skin contact in the absence of good personal hygiene.

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