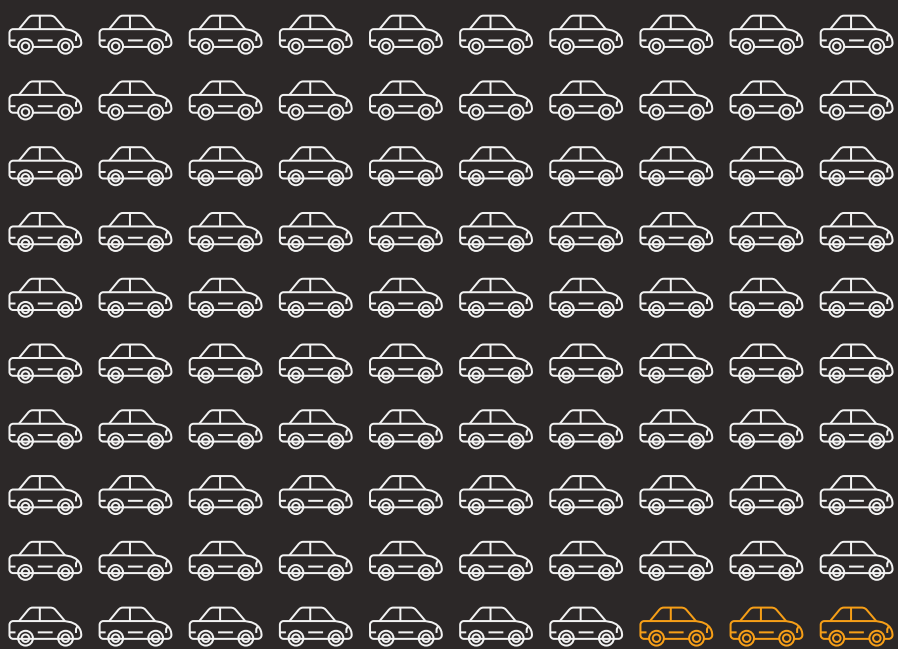


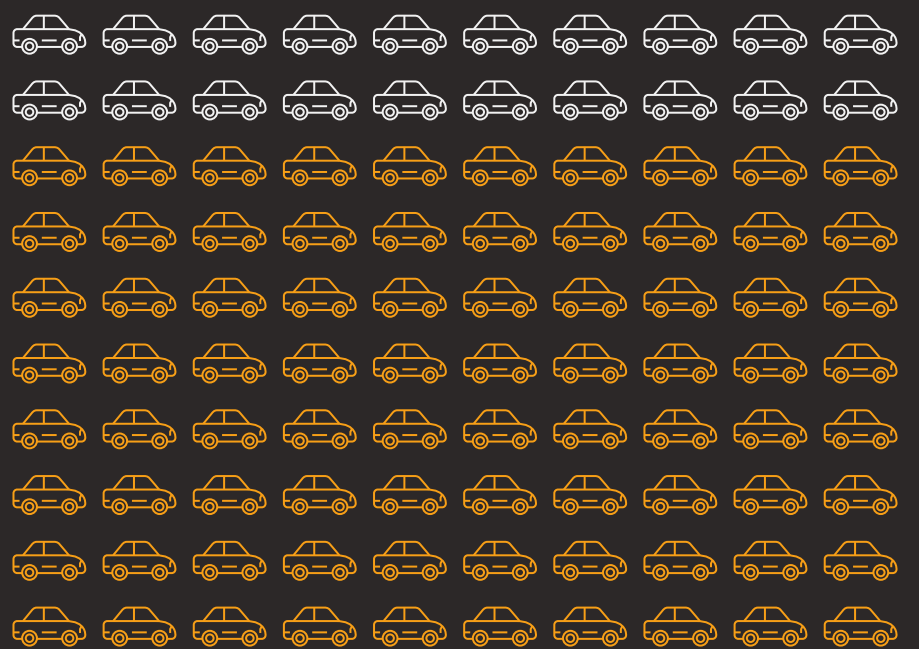


Manual Transmissions & Gearboxes: Why it's Not Time to Switch Gears



3% of vehicles sold in the U.S. have manual transmissions

compared to



80% in some Asian and European countries

3 Benefits of a Manual Transmission

1

Improved efficiency

A properly operated manual transmission consumes less power and runs more efficiently than its automatic counterpart.



Manual transmissions can improve fuel efficiency by

5-15%

2

Better performance

Manual gearboxes give operators more control over speed and acceleration. They're also smaller and more compact than automatics.



Manual gearboxes can deliver up to

21%
faster acceleration

3

Less expensive repairs

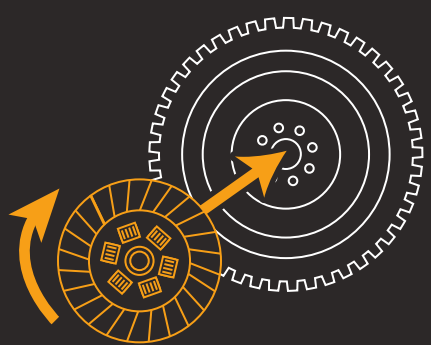
Manual transmissions have fewer moving parts, so they're less likely to need expensive repairs. Problems are typically cheaper and easier to fix.



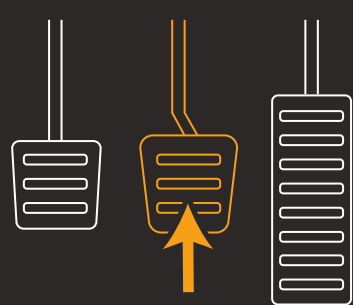
A manual transmission can cost as much as

50%
less to maintain and replace

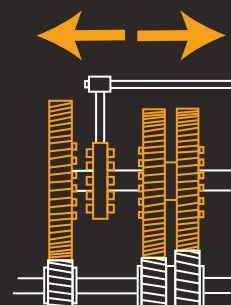
How Manual Transmissions Work



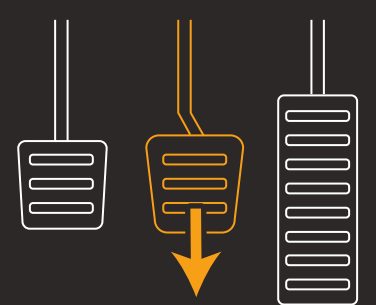
Pressure holds the clutch disk against a flywheel that causes it to spin along with the engine



When the clutch pedal is pressed, the pressure is released so the clutch no longer receives power from the engine



With the clutch disengaged, gears can be safely shifted without damaging the transmission



Releasing the clutch pedal re-engages the clutch plate, allowing it to receive power again

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