

## Annual Avg. Maintenance Costs



Data: AAA and US Dept. of Energy (2024)

EVs have far fewer powertrain components (200) than gas powered vehicles (1,400), resulting in annual maintenance savings of 30%

## Basic Comparison: Powertrain Components

### Gas Vehicle

**1,400 Components**

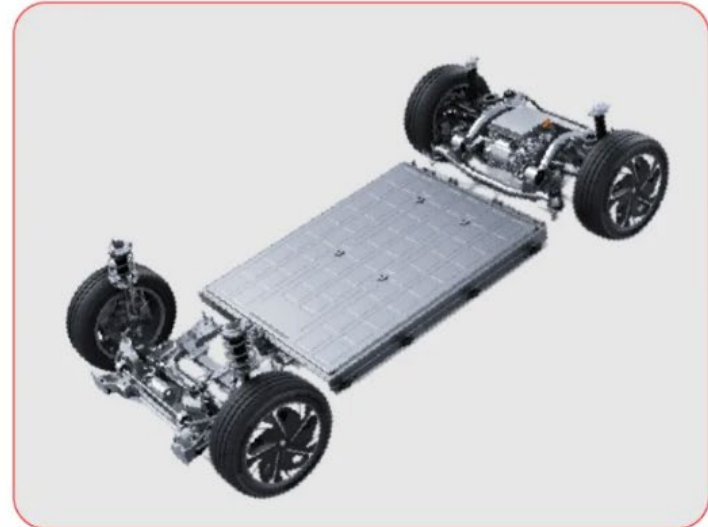
Engine, Exhaust, Transmission/Drivetrain



### Electric Vehicle



**200 Components**

Electric Motor (+ Electronics), Battery Pack





The tables below compare components that require normal maintenance on gas vehicles vs EVs.

**Engine - Motor**



		Internal Combustion Engine	Electric Motor	Oil Change & Filter	Spark Plugs	Timing Belts
Gas		✓		✓	✓	✓
EV			✓			

**Tires & Brakes**



		Tire Rotation & Replacement	Brake Pads & Rotors	Brake Fluid	Regenerative Braking*
Gas		✓	✓	✓	
EV		✓	✓	✓	✓

\* Regenerative braking captures energy when a vehicle slows down & converts it into energy, greatly reducing brake wear.



**Transmission**

		Transmission (Multi-gear or CVT)	Single Speed Gearbox	Transmission Fluid
Gas		✓		✓
EV			✓	

**Fuel/Power & Exhaust**

		Muffler & Pipes	Catalytic Converter	Gas Tank & Pump	Battery Pack
Gas		✓	✓	✓	
EV					✓

**Cooling System**

		Radiator - Heat Exchanger	Water Pump & Thermostat	Coolant Fluid
Gas		✓	✓	✓
EV		✓	✓	✓

Many EV owners choose to have a Level 2 charger (charges EV overnight) installed in their home. This allows for maximum flexibility, and removes the need to use public chargers unless on a longer trip. Home chargers allow charging your car to be similar to cell phone use: you use it all day, then charge at night when it's not needed and electricity costs are lowest.



Purchase\*

\$600

Installation\*\*

\$400

Total

\$1,000

\* Cost ranges from \$400 - \$650 on Amazon

\*\* Certified electrician