

## Firsts

Full-production vehicles are listed here. Many were preceded by racing-only cars.

### Industry

- First automobile manufacturer - [Panhard et Levassor](#) (1889) (followed by [Peugeot](#) in 1891)
- First standardized automobile - [Benz Velo](#) (1894) or [Duryea Motor Wagon](#) (1893)
- First mass-produced automobile - [Oldsmobile Curved Dash](#) (1901)
  - Honorable Mention - [Ford Model T](#), first car produced on a moving assembly line.
- First auto company technical institute - [General Motors Institute](#) (now [Kettering University](#))
- First automotive proving ground - [General Motors Milford Proving Grounds](#)

### Engine types

- [V4 engine](#)
  - First V4 - 1922 [Lancia Lambda](#)
    - Honorable mention - 1903 [Marmon](#) (*few produced*)
- [Straight-6](#)
  - First 6-cylinder - 1903 [Napier & Son](#)
- [V6 engine](#)
  - First V6 - 1950 [Lancia Aurelia](#)
    - Honorable mention - 1904 [Marmon](#) (*few produced*)
  - First American V6 - 1962 [Buick Special](#)
  - First Japanese V6 engine - 1983 Nissan's VG engine series
- [Straight-8](#)
  - First I8 - 1919 [Isotta-Fraschini](#)
    - Honorable mention - 1920 [Duesenberg](#)
- [V8 engine](#)
  - First V8 - 1910 [De Dion-Bouton](#)
    - Honorable mention - 1904 [Marmon](#) (*few produced*)
  - First mass-produced V8 - 1914 [Cadillac Type 51](#)
  - First mass-produced monobloc V8 - 1932 [Ford Model B](#)
  - First [OHV](#) V8 - 1949 [Oldsmobile/Cadillac](#) (Not the same engine, but both released the same year)
- [V10 engine](#)
  - First V10 (road car) - 1992 [Dodge Viper](#) (Previously V10s were only used in race cars)
  - First V10 sedan - 2002 [Volkswagen Phaeton](#)
- [V12 engine](#)
  - First V12 - 1916 [Packard](#) "Double-Six"
- [W12 engine](#)
  - First W12 - 2001 [Audi A8](#) (5998 cc W12 engine - four banks of three cylinders)
- [V16 engine](#)
  - First V16 - 1930 [Cadillac V-16](#)
    - Honorable mention - 1931 [Marmon](#) and 1932 [Peerless](#)
- [W16 engine](#)
  - First W16 - [Bugatti Veyron 16.4](#)
    - Jimenez Novia (used a 4.1 L W16 based on four I4 Yamaha motorcycle engines.)
- [W18 engine](#)
  - No production cars yet are known to use a W-18 configuration, however [Bugatti](#) has experimented with both three-bank and four-bank designs for various [concept cars](#).

### Engine technologies

- First [carburetor](#) - 1896 [Daimler](#)
- First [overhead cam](#) engine - 1898 Wilkinson
- First [variable displacement](#) engine - 1905 [Sturtevant](#) 38/45 six
  - Honorable mention - 1917 Enger Twin-Unit Twelve
- First twin-spark engine - 1921 [Bentley 3 Litre](#)
- First [DOHC](#) engine - 1921 [Ballot \(automobile\)](#) (*Peugeot had a DOHC 4-valve Grand Prix car in 1913*).
- First [Diesel](#)-engine production car — 1936 Mercedes 260D.
- [Multi-valve](#) engines
  - First 3-valve engine - 1924 [Bugatti Type 35](#) (*Type 18 had a 3-valve in 1912, but only 6 or 7 were made. Type 35 used the engine from the 1922 Type 29 racing car.*)
  - First 4-valve engine - 1921 [Bentley 3 Litre](#)
    - Honorable mentions - 1931 [Bugatti Type 51 DOHC](#). An [SOHC](#) 4-valve engine appeared in 1910's [Type 13](#) racing car, while a 4-valve [straight-4](#) was also developed by Bugatti in 1914. The Linthwaite-Hussey Motor Company of Los Angeles manufactured and advertised a four-valve straight-4 engine in 1916.
  - First 5-valve engine - 1989 [Mitsubishi Minica](#) 548 cc [3G81](#) I3 (*Peugeot had a triple overhead cam 5-valve Grand Prix car in 1921*).
- - First 6-valve engine - 1985 Maserati 2.0L V6 36V 261 hp
  - First 3-valve [Diesel](#) - 1989 [Citroën XM](#)
  - First 4-valve [Diesel](#) - 1994 [Mercedes-Benz E-Class](#)
  - First [multi-valve turbocharged](#) engine - 1984 [Saab 900 B202](#)
- First [carburetor](#) air filter - 1915 [Packard](#) Twin Six
  - Honorable mention - 1922 [Rickenbacker](#) had a modern dry element
- First crankcase ventilation - 1926 [Cadillac V8 engine](#)
- First automatic [choke](#) - 1932 [Oldsmobile](#)
- First four-barrel [carburetor](#) - 1941 [Buick](#)
- [Fuel injection](#)
  - First FI engine - 1910 Adams Farwell [Diesel](#)
  - First non-[Diesel](#) FI engine - 1952 [Gutbrod](#) Superior
  - First [gasoline direct injection](#) - 1955 [Mercedes-Benz 300SL](#)
  - First electronic [fuel injection](#) - 1968 [Bosch](#) D-Jetronic - [Volkswagen Type 3/Type 4](#)
  - First [Diesel](#) direct injection engine - 1986 [Fiat](#) Croma TD
  - First electronic gasoline direct injection - August 1996 [Mitsubishi Galant/Legnum 4G93](#) GDI [I4](#)
- First [supercharged](#) car - 1923 [Mercedes](#) 6/25/40 hp
- First [turbocharged](#) car - 1962 [Oldsmobile F-85 Turbo Jetfire](#)
  - Honorable mention - 1962 [Chevrolet Corvair flat-6](#)
- First [turbocharged diesel](#) car - 1978 [Mercedes-Benz 300SD](#)
- First variable-nozzle [turbocharger](#) - 1989 [Shelby CSX-VNT/Garrett Systems](#)
  - Honorable mention - 2006 [Porsche 911 Turbo/BorgWarner](#)
- First quad-[turbocharged](#) car - [Bugatti EB110](#)
- First supercharged and turbocharged car - 1989 Nissan [March Superturbo MA09ERT](#)
  - Honorable mention - 1985 [Lancia Delta S4](#) (Homologation special, only 200 road cars produced for [Group B](#) regulations)

- First point ignition - 1910 [Cadillac Model Thirty/Delco](#)
- First electronic ignition - 1960 [General Motors/Delco](#)
- First alternator - 1960 [Chrysler Corporation, Plymouth Valiant](#)
- First flat-engine - 1905 Knox
- First [square](#) engine - 1906 [Premier](#)
- First monobloc engine with removable cylinder head - 1908 [Ford Model T](#)
- First counterbalanced [crankshaft](#) - 1908 [Mercer](#) Type 35
- First [split-plane crankshaft](#) - 1923 [Cadillac V8 engine](#)
- [Variable valve timing](#)
  - First VVT engine - 1980 [Alfa Romeo Spider 2.0 L](#)
  - First electronic VVT - 1987 [Nissan 300ZX VG30DE NVCS](#) V6
- First [gas turbine](#) car - 1950 [Rover JET 1](#) (*Experimental only; no gas turbine car ever reached real production*)
- [Wankel engines](#)
  - First [Wankel engine](#) - 1964 [NSU Spider](#)
  - First 2-rotor [Wankel engine](#) - 1965 [Mazda Cosmo](#) (*60 preproduction examples were produced and registered*)
    - Honorable mention - 1966 [NSU Ro 80](#)
  - First front-wheel drive Wankel engine - 1966 [NSU Ro 80](#)
  - First 3-rotor [Wankel engine](#) - 1991 [Mazda Cosmo](#)
    - Honorable mentions - 1969 [Mercedes-Benz C111](#) and 1970 [Felix Wankel](#)-refitted [Mercedes-Benz 300SL](#) (*Not production cars*)
  - First [turbo](#) Wankel engine - 1982 [Mazda Luce/Cosmo](#)
- First [Miller cycle](#) engine - 1996 [Mazda Millenia](#)
- First [Atkinson cycle](#) engine - 2004 [Toyota Prius](#)
- First [Hydrogen vehicle](#) - 2006 [Mazda RX-8](#) (Japan commercial leases only)
- First [California ULEV emissions](#) compliant - 1995 [Honda Accord](#)

## Hybrid vehicles

- First gas-electric hybrid - 1899 Lohner-[Porsche](#) Mixte (*about 300 produced*)
- First modern hybrid car - 1904 Auto-Mixte ([Belgium](#))
- First modern hybrid car - 1997 [Toyota Prius](#) NHW10/[Honda Insight](#) (Japan)
- First hybrid [bus](#) - 1997 [Hino](#) (Japan)
- First [all-wheel drive](#) hybrid, first hybrid [SUV](#) - 2004 [Ford Escape Hybrid](#)
- First hybrid [luxury car](#) - 2005 [Lexus RX 400h](#) (introduced January 2004)
- First hybrid [pickup truck](#) - 2005 [Chevrolet Silverado/GMC Sierra Hybrid](#)
- First [rear-wheel drive](#) hybrid car - 2007 [Lexus GS450h](#) (on sale March 16, 2006 in Japan)
- First three-cylinder hybrid - 1999 [Honda Insight](#)
- First four-cylinder hybrid - 1997 [Toyota Prius](#) NHW10 (Japan)
- First six-cylinder hybrid - 2005 [Lexus RX 400h](#) (introduced January 2004)

## Body

- First motorized [truck](#) — October 1896 [Daimler](#)
- First production closed-body car - 1910 [Cadillac Model Thirty](#)
- First [monocoque](#) - 1924 [Lancia Lambda](#)
  - Honorable mentions - 1917 Ruler Four (*few produced*), 1934 [Citroën Traction Avant](#)
- First shatter-resistant windshield glass - 1926 [Cadillac](#)
- First [coupé convertible](#) - 1934 Peugeot 401 D Eclipse
- First [Pickup / Utility](#) (Ute) - 1934 [Ford Australia](#)
- First safety [windshield](#) - 1948 [Tucker Torpedo](#) (*popout safety glass*) [7]
- First [fiberglass](#) body - 1953 [Chevrolet Corvette](#) and [Kaiser Darrin](#)
- First [MPV](#) - 1956 [Fiat 600 Multipla](#)
- First [retractable hardtop](#) - 1930s [Lancia](#)
  - Honorable mention - 1957 [Ford Skyliner](#)
- First [hatchback](#) - 1953 [Aston Martin DB2/4](#)
  - Honorable mentions - 1958 [Austin A40 Farina](#), 1962 [Innocenti Combinata](#), and 1965 [Renault 16](#)
- First [fiberglass monocoque](#) - 1956 [Berkeley T60](#)
  - Honorable mention - 1959 [Lotus Elite](#)
- First [SUV](#) - 1942 Dodge Carryall
  - Honorable mention - 1957 [Moskvitch 410](#) (first [crossover SUV/XUV](#))
- First all-[aluminum](#) body - 1961 [Lagonda Rapide](#)
  - Honorable mention - 1947 [Land Rover](#) (used [Birmabright](#), an aluminum alloy)
  - First all-aluminum space frame - 1990 [Honda NSX](#)
- First [carbon fiber monocoque](#) - 1991 [McLaren F1](#)
- First [aerodynamic](#) design - 1921 [Rumpler](#) Tropfenwagen

## Transmission

- [Manual transmissions](#)
  - First synchronized transmission - 1929 [Cadillac](#)
  - First [overdrive](#) - 1934 [Chrysler Airflow](#)
  - First modern cone synchromesh transmission - 1952 [Porsche 356](#)
  - First 5-speed manual - 1953 [Ferrari 212](#)
  - First 6-speed manual - 1986 [Honda Civic](#) Wagon 4WD
    - Honorable mention - 1986 [Porsche 959](#) (*introduced at 1985 [Frankfurt Motor Show](#) but first customer deliveries were delayed until 1987*) [8]
    - Honorable mention - 1957 [Moskvitch 410/411](#) (three forward gears with high and low selection)
  - First 8-speed manual - 1960 [Moskvitch 410/411](#)
  - First 16-speed manual - 1913 [David](#)
- [Automatic transmissions](#)
  - First automatic transmission - May 1939 [Oldsmobile Hydra-Matic](#) (also the first 4-speed automatic)
    - Honorable mention - 1934 [REQ](#) (a pair of self-shifting manuals)
    - Honorable mention - 1937 [Oldsmobile](#) Automatic Safety Transmission
  - First [torque converter](#) automatic - 1948 [Buick Dynaflo](#)
    - Honorable mention - 1949 [Packard Ultramatic](#) (torque converter automatic)
    - Honorable mention - 1946 [Chrysler Presto-Matic](#) (torque converter manual)
  - First non-planetary automatic - 1968 [Honda Hondamatic](#)
  - First 5-speed automatic - 1991 [BMW E34 5-Series](#) and [E36 320i/325i ZF 5HP18](#)
  - First 6-speed automatic - 2002 [BMW E65 7-Series ZF 6HP26](#)
    - Honorable mention - 1999 [Jeep Grand Cherokee 45RFE](#) had an automatic transmission with 3 planetary gearsets capable of six speeds, but only 5 were used, and the company advertised it as a 4-speed.
  - First 7-speed automatic - 2003 [Mercedes-Benz 7G-TRONIC](#)
  - First 8-speed automatic - 2007 [Lexus LS 460](#)
- First [limited slip differential](#) - 1956 [Studebaker](#)
- First [continuously variable transmission](#) - 1958 [DAF 600 "A-Type"](#)

## Layout

- First [FR layout](#) car - 1895 [Panhard](#) et Levassor
- First [RR](#) car - 1896 Hertel
- First [front-wheel drive](#) - 1924 Tracta (Gregoire-Tracta)
  - Honorable mention - 1900 Pennington and 1928 [Alvis](#) (*did not sell more than 150 units*)
  - Honorable mention - 1934 [Citroën Traction Avant](#)
  - Honorable mention - 1929 [Cord Automobile](#) L-29
  - Honorable mention - 1930 [Ruxton](#)
  - Honorable mention - 1923 LT (*only three made*)
- First [transverse front-wheel drive](#) - 1931 [DKW F1](#)<sup>[*citation needed*]</sup>
  - Honorable mention - 1947 [Saab 92](#)
  - Honorable mention - 1959 [Mini](#)
  - First [transverse FWD I5](#) - 1993 [Volvo 850](#)
  - First [transverse FWD I6](#) - 1970 [Austin Kimberley](#) and [Austin Tasman](#)
    - Honorable mention - 1959 [Saab Monster](#) (*Not a production vehicle*)
  - First [transverse FWD V8](#) - 1985 [Cadillac DeVille](#)
  - First [transverse all-wheel drive](#) - 1968 Austin Ant
- First [four-wheel drive](#) vehicle - 1910 [Caldwell Vale](#) or 1911 Four Wheel Drive
- First [all-wheel drive](#) car - 1966 [Jensen FF](#)
  - Honorable mention - 1901 Lohner-Porsche (*One produced*), electric 4WD
  - Honorable mention - 1902 Jacobus [Spyker](#) (*One produced*), first mechanical 4WD
  - Honorable mention - 1932 [Bugatti Type 53](#) (*Three produced*)
  - Honorable mention - 1958 [Citroën 2CV Sahara](#) (*Dual-engine all wheel drive*)
- First [FR transaxle](#) - 1950 [Lancia Aurelia](#) (*the 1914 [Stutz Bearcat](#) featured a primitive transaxle*)
- First [MR](#) car - 1921 [Rumpler](#) Tropfenwagen
- First [MR AWD](#) car - 1990 [Panther Solo 2](#)
  - Honorable mention - [1985 Ford RS200](#) (Homologation special, only 200 road cars produced for [Group B](#) regulations.)
  - Honorable mention - 1985 Peugeot 205 Turbo-16 (Homologation special, only 200 road cars produced for [Group B](#) regulations.)
  - Honorable mention - 1985 [Lancia Delta S4](#) (Homologation special, only 200 road cars produced for [Group B](#) regulations.)
  - Honorable mention - 1985 Rover Metro 6R4 (Homologation special, only 200 road cars produced for [Group B](#) regulations.)

## Suspension

- First [torsion bar](#) suspension - 1921 [Leyland](#)
- First front [independent suspension](#) - 1924 [Lancia Lambda](#)
- First [hydraulic shock absorbers](#) - 1933 [Hudson](#) ([Monroe](#))
- First [coil spring/shock absorber](#) suspension - 1934 [Cadillac](#), [Chrysler](#), and [Hudson](#)
- First [MacPherson strut](#) suspension - 1949 [Ford Vedette](#)
- First [Chapman strut](#) suspension - 1958 [Lotus Elite](#)
- First air [suspension](#) - 1958 [Cadillac Brougham](#)
  - Honorable mentions - 1909 [Cowley](#) and 1933 [Stout-Scarab](#) ([Firestone](#))
- First [self-levelling suspension](#) - 1955 [Citroën DS](#)
  - Honorable mention - 1954 [Citroën Traction Avant](#) 15H [Hydropneumatic](#)
- First electronically-controlled suspension - 1985 [Nissan Maxima](#) (Japan-market model)
- First fully active suspension - 1990 [Nissan Infiniti Q45](#), 1991 [Toyota Soarer](#) <sup>[9]</sup>
  - Honorable mention - 1983 Lotus 92 (*raced at the [Long Beach Grand Prix](#), began road development in 1987 but never applied to a road car* <sup>[10]</sup>)
  - Honorable mention - 1991 [Toyota Celica](#) (300 experimental vehicles produced)
- First active anti-roll bars - 1994 Citroën Xantia Activa (Active Roll Stabilization)
- First [active differential](#) - 1995 Nissan Skyline GT-R Vspec - Active LSD
  - Honorable mention - 1986 [Porsche 959 PSK](#) (*limited production of 200 vehicles*)
  - Honorable mention - 1996 [Mitsubishi Lancer EVO IV](#), [AYC](#) is a factory option. Became standard in EVO V.
  - Honorable mention - 2005 [Ferrari F430](#) and [Acura RL](#) feature fully-integrated electronic differentials

## Brakes

- First [power brakes](#) - 1919 [Hispano-Suiza H6](#) (mechanically assisted)
  - Honorable mention - 1921 [Duesenberg](#) Model A
- First vacuum-assist [power brakes](#) - 1928 [Pierce-Arrow](#)
- First standard [disc brakes](#) - 1955 [Citroën DS](#)
  - Honorable mentions - 1956 (HRG twincam) used helicopter disc brakes [Triumph TR3](#), [Girling](#) (*[Jaguar](#) pioneered disc brakes at [Le Mans](#) in 1953*)
- First [antilock braking system](#) - 1966 [Jensen FF](#) (Dunlop Maxaret system, previously used in aviation)
  - First electrical [antilock braking system](#) - 1969 [Lincoln Continental Mark III](#)
    - Honorable mention - 1970 [Cadillac](#) (rear only)
  - First electronic [antilock braking system](#) - 1986 [Lincoln Mark VII/Continental](#) and [Chevrolet Corvette](#)
- First [Electric parking brake](#) - 2003 [Lincoln LS](#)
- First diagonally split, dual brake circuits - 1962 [Saab 95/96](#)
- First [asbestos-free brake pads](#) - 1983 [Saab Automobile](#)
- First electro-hydraulic brakes - 2003 [Mercedes-Benz SL-Class](#)
- First [regenerative brakes](#) - 1997 [Toyota Prius](#)

## Driver-aids

- First standard rear-view mirror - 1912 [Marmon](#)
- First [power steering](#) - 1951 [Imperial](#)
- First [cruise control](#) - 1957 [Imperial](#)
  - Honorable mention - [Peerless](#) had a [centrifugal governor](#) speed control system in the 1910s
- First [traction control](#) - 1987 [Bosch Mercedes-Benz S-Class/BMW 7-Series](#)
- First [drive-by-wire](#) throttle - 1988 [BMW 750iL](#)
- First [electrochromic](#) rear-view mirror - 1989 [Lexus LS](#)
- First [dynamic stability control system](#)/[Electronic Stability Program](#) - 1996 [BMW 7-Series](#)/[Mercedes-Benz CL-Class](#)
- First [adaptive cruise control](#) - 1997 [Toyota Celsior](#)
- First [heads-up display](#) - 1988 [Oldsmobile Cutlass Supreme](#)
- First factory [GPS](#) navigation - 1990 [Mazda Cosmo](#), 1991 [Toyota Soarer](#)
- First [night vision](#) - 2000 [Cadillac DeVille](#)
- First [power door locks](#) - 1956 [Packard](#)
- First integrated car dynamics control system: 2005 [Toyota Crown Majesta](#) (*Vehicle Dynamics Integrated Management*)

## Passive restraint

- First [airbags](#) - 1974 [Oldsmobile Toronado](#)
- First car to come standard with dual airbags - [1987 Porsche 944 Turbo](#)

- First six-airbag system - 1994 [Audi A8](#)
- First head airbags - 1998 [BMW 7-Series](#)

## Tires

- First use of pneumatic tires - 1895 [Peugeot L'Eclair](#) ([Michelin](#))
- First standard pneumatic tires - 1896 [Bollée](#) Voiturette
- First radial-ply tires - 1949 [Michelin "X"](#) (*patented in 1946*)
- First self-repairing tires - 1950 [Goodyear](#)
- First [run flat tire](#) - 1974 [Mini 1275GT](#) ([Dunlop](#) Denovo; optional)

## Lighting

- First electrical lighting - 1898 [Columbia](#) electric
- First standard lights - 1904 "Prest-O-Lite" [acetylene](#)
- First standard electrical lights - 1908 [Peerless](#)
- First integrated electrical and lighting system - 1912 [Cadillac Model 1912 Delco](#)
- First "dipping" headlights - 1915 Guide Lamp Company
- First dual-beam headlight - 1924 [Bilux](#)
- First retractable headlights - 1936 [Cord](#)
- First directional headlamps - 1930s [Tatra](#)
  - Honorable mention - 1948 [Tucker Torpedo](#) (originally designed with swivel lights, but replaced with third "cyclops light" turned on when cornering).
- First fog lights - 1938 [Cadillac](#)
- First auto-dimming headlights - 1952 [Cadillac Autronic Eye](#)
- First auto-on/off headlights - 1964 [Cadillac Twilight Sentinel](#)
- First [halogen](#) headlights - 1965 [Hella](#)
- First headlight wipers - 1970 [Saab Automobile](#)
- First modern U.S.-market car with [sealed beam](#) headlights - 1984 [Lincoln Mark VII](#)
- First [AC HID](#) lights - 1991 [BMW 7-series](#)
- First [DC HID](#) lights - 1997 [Lincoln Mark VIII](#)
- First [neon](#) lights - 1997 [Lincoln Mark VIII](#)
- First all-LED tail lights - 1998 [Maserati 3200 GT](#)
- First [bi-xenon HID headlamps](#) - 2000 [Mercedes-Benz CL-Class](#)

## Electrical system

- First electric self-starter - 1911 [Cadillac](#)
- First electric windows - 1938 [Buick Y](#)
- First combination key and ignition switch - 1949 [Chrysler](#)
- First [AC alternator](#) - 1960 [Valiant](#)
- First sealed [battery](#) - 1971 [Pontiac](#) "Freedom Battery"
- First multiplexed wiring - 1987 [Cadillac Allanté](#)
- First integrated car systems control - 1990 [Mazda Eunos Cosmo](#) (*Car Control System*)
  - Honorable mention - 1991 [Toyota Soarer](#) (*Electro Multi Vision*)
- First built-in 110V AC inverter - 2000 [Toyota Avalon](#)

## Climate control

- First windshield defroster - 1928 [Studebaker](#)
- First windshield washer - 1937 [Studebaker](#)
- First [air conditioning](#) - 1938 [Studebaker Commander](#)
  - Honorable mention - 1939 [Packard](#) and 1941 [Cadillac](#)
- First rear window defogger - 1948 [Cadillac](#)
- First heated seats - 1966 [Cadillac](#)
  - Honorable mention (first electrically heated) - 1972 [Saab 99](#)
- First automatic climate control - 1964 [Cadillac](#)
- First digital climate control - 1975 [Rolls-Royce Camargue](#)
- First ventilated seats - 1997 [Saab 9-5](#)

## In-car electronics and entertainment

- First original-equipment radio - 1923 [Springfield](#)
- First [navigation system](#) - August 1981 [Honda Accord](#) (analog, dealer-installed) [\[11\]](#)
  - First navigation system with acoustic output - 1989 [Infiniti Q45](#)
  - First digital navigation system - 1990 [Acura Legend](#)
  - First [GPS](#) navigation system - 1990 [Mazda Eunos Cosmo](#)
    - Honorable mention - 1991 [Toyota Soarer](#) [\[12\]](#)
    - Honorable mention - 1990 [Pioneer Electronics/Trimble](#) (aftermarket)
- First active audio volume control - 1990 [Chevrolet Corvette Bose/Delco](#) Gold Series
- First [telematics assist](#) system - 1996 *tie* 1997-model [Cadillac Seville \(OnStar\)](#) and [Lincoln Continental \(Motorola RESCU\)](#)
- First [DVD](#) navigation system - 1996 [Matsushita/Pioneer Electronics](#) (aftermarket)
- First in-car [PC](#) - 1997 [Microsoft](#) Auto PC (aftermarket)
- First [Bluetooth](#)-capable audio system - 2000 [Chrysler](#)
- First [THX](#)-certified stereo system - 2003 [Lincoln LS](#)
- First in-car [karaoke](#) machine - 2003 [Geely BL](#)
- First active noise cancellation - 2005 [Acura RL](#)
- First [digital television](#) reception - 2006 [Mercedes-Benz S-Class](#)

## Other

- First steering wheel - 1899 [Packard](#)
- First [speedometer](#) - 1901 [Oldsmobile](#)
- First tilt-away steering wheel - 1912 [Peerless](#)
- First dash-mounted fuel tank gauge - 1914 [Studebaker](#)
- First tilt-away steering column - 1928 [Buick](#)
- First [turn signals](#) - 1939 [Buick](#)
- First split folding rear seats - 1961 [Renault 4](#) (*Fiat patented the system in 1978*)
- First tilt-telescope steering wheel - 1965 [Cadillac](#)
- First [four wheel steering](#) - 1985 [Nissan Skyline](#) HICAS
  - Honorable mention - 1938 [Mercedes 170VL](#) (military truck only)
  - Honorable mention - 1987 [Honda Prelude](#) 4WS
- First [composite](#) wheels - 1989 [Shelby CSX](#)
- First capless fuel filler - 2005 [Ford GT](#)

## American types

- First standardized American automobile - [Duryea Motor Wagon](#) (1896)
- First American [electric car](#) - [Detroit Electric](#) (1907)
- First American [hybrid SUV](#) - [Ford Escape Hybrid](#)
- First Chinese-made vehicle sold in America - 2006 [Miles ZX40](#)