



- **Brake System Service and Upgrades**

Brake System Service and Upgrades How to replace worn brake pads on an ATV Steps for bleeding air from ATV brake lines How to rebuild a brake caliper on an ATV When to replace brake rotors for safe stopping Signs of brake fluid contamination in an ATV How to inspect brake lines for damage or leaks Understanding how master cylinders work in ATVs Tips for maintaining consistent brake performance How to adjust parking brake tension on an ATV Steps for installing new brake components on an ATV Why regular brake inspections are essential for ATV safety How to prevent brake fade during long downhill rides

- **Suspension and Steering System Overhaul**

Suspension and Steering System Overhaul How to replace worn ball joints on an ATV Steps for rebuilding ATV shocks for smoother rides How to check and replace A arm bushings When to adjust preload settings on your ATV suspension Signs of a failing steering stem bearing How to replace damaged tie rod ends on an ATV Techniques for diagnosing uneven tire wear on ATVs How to align the front wheels on an ATV Understanding the role of EPS in ATV steering How to set sag correctly on an ATV suspension Steps for greasing pivot points in the suspension system When to upgrade suspension components for heavy duty use

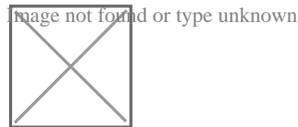
- **About Us**



Brake System Service and Upgrades

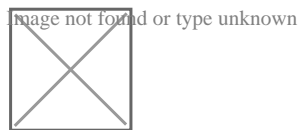
Certainly! Fuel system cleaning boosts power and efficiency [polaris atv ultimate series- ready pack](#) Winston-Salem. Heres an essay on how to check and replace A-arm bushings, written in a human-like style:

When it comes to maintaining your vehicle, one of the often-overlooked components is the A-arm bushings. These small yet crucial parts play a significant role in the suspension system, contributing to both the handling and comfort of your ride. Over time, A-arm bushings can wear out, leading to a less-than-optimal driving experience. Therefore, knowing how to check and replace them is an essential skill for any car enthusiast or DIY mechanic.



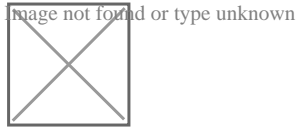
Understanding A-Arm Bushings

Before diving into the process, its important to understand what A-arm bushings are and why they matter. A-arm bushings are rubber or polyurethane components that connect the A-arms (or control arms) to the frame of the vehicle. They allow for a certain degree of movement while providing a stable connection, which is vital for maintaining proper alignment and absorbing road shocks.



Signs of Worn A-Arm Bushings

The first step in addressing A-arm bushings is to identify whether they need replacement. Here are some common signs that your A-arm bushings may be worn out:



1. **Uneven Tire Wear:** If you notice that your tires are wearing out unevenly, it could be a sign that your bushings are failing.
2. **Clunking Noises:** When driving over bumps or making sharp turns, clunking noises from the suspension can indicate worn bushings.
3. **Excessive Body Roll:** If your vehicle feels like its rolling too much during turns, it might be due to compromised bushings.
4. **Steering Instability:** A wandering steering wheel or difficulty in maintaining a straight line can also point to issues with the A-arm bushings.

Checking A-Arm Bushings

To check your A-arm bushings, you'll need to lift the vehicle safely using a jack and secure it with jack stands. Here's a step-by-step guide:

1. **Visual Inspection:** Start by visually inspecting the bushings. Look for any cracks, tears, or signs of excessive wear.
2. **Movement Test:** With the vehicle securely lifted, try to move the A-arm in and out, as well as up and down. There should be minimal movement. Excessive play indicates worn bushings.
3. **Lubrication Check:** Some bushings are designed to be lubricated. Check if yours are and ensure they have the appropriate grease.

Replacing A-Arm Bushings

If your inspection reveals that the bushings need to be replaced, follow these steps:

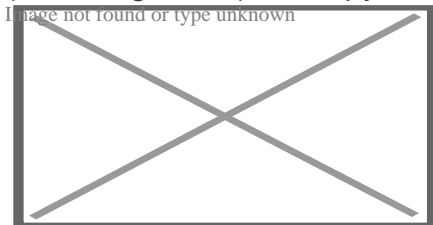
1. **Gather Tools and Materials:** You'll need a socket wrench set, a pry bar, a hammer, new bushings, and possibly a press kit if the bushings are press-fit.
2. **Remove the A-Arm:** Disconnect the ball joint and any other connections to the A-arm. This may involve removing bolts and nuts. Once disconnected, the A-arm should be free to move.
3. **Remove the Old Bushings:** Use a pry bar to carefully remove the old bushings from the A-arm. You may need to tap them out with a hammer if they are press-fit.
4. **Install the New Bushings:** If the bushings are press-fit, use a press kit to install the new ones. Ensure they are seated properly. For bolted bushings, simply slide them into place.
5. **Reassemble:** Reattach the A-arm to the vehicle, making sure all bolts and nuts are tightened to the manufacturer's specifications.
6. **Test the Suspension:** Lower the vehicle and test the suspension by driving it. Check for any unusual noises or movements to ensure the new bushings are installed correctly.

Conclusion

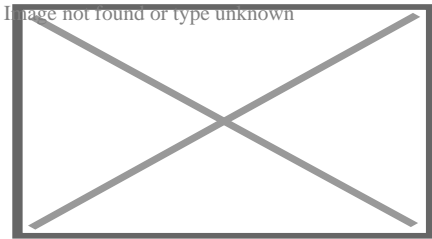
Replacing A-arm bushings might seem like a daunting task, but with the right tools and a bit of patience, it's something you can accomplish at home. Regular maintenance and timely replacement of worn bushings will not only enhance your driving experience but also contribute to the overall safety and performance of your vehicle. So, the next time you notice those telltale signs of worn bushings, don't hesitate to roll up your sleeves and get to work!

About Roadster (car)

This article is about a style of automobile. For other uses of the terms, see Roadster (disambiguation) and Spyder (disambiguation).



2016 Mazda MX-5



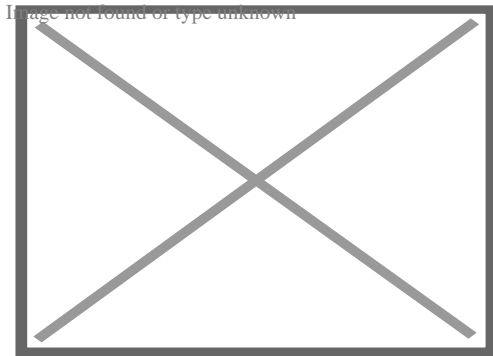
1931 Ford Model A roadster

A **roadster** (also **spider**, **spyder**) is an open two-seat car with emphasis on sporting appearance or character.^{[1][2]} Initially an American term for a two-seat car with no weather protection, its usage has spread internationally and has evolved to include two-seat convertibles.

The roadster was also a style of racing car driven in United States Auto Club (USAC) Championship Racing, including the Indianapolis 500, in the 1950s and 1960s. This type of racing car was superseded by rear-mid-engine cars.

Etymology

[edit]



Early roadster competing for the Vanderbilt Cup

The term "roadster" originates in the United States, where it was used in the 19th century to describe a horse suitable for travelling.^{[3][4]} By the end of the century, the definition had expanded to include bicycles and tricycles.^[5] In 1916, the United States Society of Automobile Engineers defined a roadster as: "an open car seating two or three. It may have additional seats on running boards or in rear deck."^[6] Since it has a single row of seats, the main seat for the driver and passenger was usually further back in the chassis than it would have been in a touring car.^{[4][7]} :â€Š258â€ŠRoadsters usually had a hooded dashboard.^[7]:â€Š257â€Š

In the United Kingdom, historically, the preferred terms were "open two-seater" and "two-seat tourer".^{[8][9]} Since the 1950s, the term "roadster" has also been increasingly used in the United Kingdom. It is noted that the optional 4-seat variant of the Morgan Roadster would not be technically considered a roadster.^[citation needed]

The term "spider" or "spyder," sometimes used in names for convertible models, is said to come from before the automobile era. Some 19th-century lightweight horse-drawn phaetons had a small body and large wooden wheels with thin spokes; they were nicknamed "spiders" because of their

appearance; the nickname was transferred to sports cars, although they did not look similar.^[10]

In 1962, Chevrolet introduced the *Monza Spyder*, a turbocharged version of its Corvair compact, available as a convertible or coupe. Although not a true 2 passenger vehicle, it featured upgraded suspension and other equipment to classify it as a "sporty car."

History

[edit]

Auto racing began with the first earnest contests in 1894 in Europe, and in 1895 in the United States. Some of the earliest race cars were purpose-built or stripped for the greatest speed, with minimal or no bodywork at all, leading to a body style aptly named 'speedster'. The cut-down speedster body-style really took form in the 1900s. After removing most of the body (and fenders), an empty platform on the ladder-frame chassis was mounted with one or two seats, a gas tank, and spare tyres.^[11]

American manufacturers Mercer and Stutz started offering ready-made racing speedsters, intentionally built to be driven to race(-track), raced, and driven back by their owner – essentially the first track day cars.^[11]

- 1890s to 1920s speedsters
- Ransom Olds' 1896/1897 "Pirate" racer was one of the first speedsters.

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Ransom Olds'
1896/1897 "Pirate" racer
was one of the first
speedsters.

- Barney Oldfield and Henry Ford with Oldfield's 999 speedster, 1902

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Barney Oldfield and Henry
Ford with Oldfield's 999
speedster, 1902

- 1909 model T speedster “ announced winner of the 1909 Ocean to Ocean race, disqualified because

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1909 model T
speedster – announced
winner of the 1909
Ocean to Ocean race,
disqualified because of
an engine change
1910 Mercer 35R Raceabout (1912 specimen)

○

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1910 Mercer 35R Raceabout
(1912 specimen)
The 1912 Stutz Bear Cat / Bearcat, (1914 shown), available doorless through 1916

○

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The 1912 Stutz Bear
Cat / Bearcat, (1914
shown), available
doorless through 1916

The immediate predecessor to the roadster was the runabout, a body style with a single row of seats and no doors, windshield, or other weather protection. Another predecessor was the touring car, similar in body style to the modern roadster except for its multiple rows of seats. By the 1920s roadsters were appointed similarly to touring cars, with doors, windshields, simple folding tops, and side curtains.^[4]

Roadster bodies were offered on automobiles of all sizes and classes, from mass-produced cars like the Ford Model T and the Austin 7 to extremely expensive cars like the Cadillac V-16, the Duesenberg Model J and Bugatti Royale.

- 1920s to 1950s roadsters

- 1926 Ford Model T roadster

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1926 Ford Model T

roadster

1932 Duesenberg J Murphy-bodied roadster

○

Image not found or type unknown

1932 Duesenberg J

Murphy-bodied roadster

1937 Delahaye 135MS roadster

○

Image not found or type unknown

1937 Delahaye 135MS

roadster

- 1949 MG TC open two-seater marketed in USA as a roadster

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1949 MG TC open two-

seater marketed in USA

as a roadster

By the 1970s "roadster" could be applied to any two-seater car of sporting appearance or character.^[12] In response to market demand they were manufactured as well-equipped as convertibles^[13] with side windows that retracted into the doors. Popular models through the 1960s and 1970s were the Alfa Romeo Spider, MGB and Triumph TR4.

- 1950s to 1980s roadsters

1973 MGB

○

Image not found or type unknown

1973 MGB

- Alfa Romeo Spider

Image not found or type unknown

Alfa Romeo Spider

- 1983 Mercedes-Benz 380SL

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1983 Mercedes-Benz 380SL

1987 Cadillac AllantÃ©

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1987 Cadillac Allant 

The highest selling roadster is the Mazda MX-5, which was introduced in 1989.^{[14][15][16]} The early style of roadster with minimal weather protection is still in production by several low-volume manufacturers and fabricators, including the windowless Morgan Roadster, the doorless Caterham 7 and the bodyless Ariel Atom.

- 1990s to present day roadsters
BMW Z3

○

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BMW Z3

- Pontiac Solstice

Image not found or type unknown

Pontiac Solstice

Mazda MX-5

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Image not found or type unknown

Mazda MX-5

Porsche Boxster

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Porsche Boxster

- **MG Cyberster**

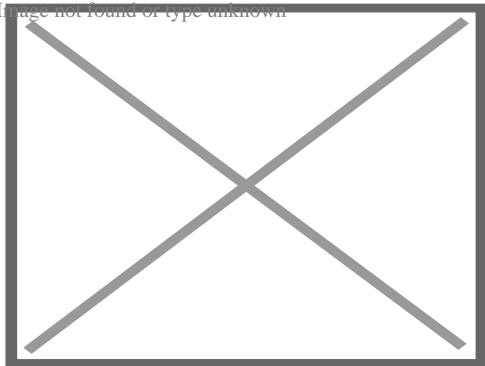
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MG Cyberster

IndyCar roadster layout

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1957 Kurtis Indy roadster

The term *roadster* was used to describe a style of racing cars competing in the AAA/USAC Championship Cars series (the IndyCar equivalents of the time) from 1952 to 1969. The roadster

engine and drive shaft are offset from the centerline of the car. This allows the driver to sit lower in the chassis and facilitates a weight offset which is beneficial on oval tracks.^[17]

One story of why this type of racing car is referred to as a "roadster" is that a team was preparing a new car for the Indianapolis 500. They had it covered in a corner of their shop. If they were asked about their car they would try and obscure its importance by saying that it was just their (hot rod) "roadster". After the Indianapolis racer was made public, the "roadster" name was still attached to it.^[citation needed]

Frank Kurtis built the first roadster to race and entered it in the 1952 Indianapolis 500. It was driven by Bill Vukovich who led for most of the race until a steering failure eliminated him. The Howard Keck owned team with Vukovich driving went on to win the 1953 and 1954 contests with the same car. Bob Sweikert won the 1955 500 in a Kurtis after Vukovich was killed while leading. A. J. Watson,^[18] George Salih and Quinn Epperly were other notable roadster constructors. Watson-built roadsters won in 1956, 1959 – 1964 though the 1961 and 1963 winners were actually close copies built from Watson designs. The 1957 and 1958 winner was the same car built by Salih with help by Epperly built with a unique placement of the engine in a 'lay down' mounting so the cylinders were nearly horizontal instead of vertical as traditional design dictated.^[19] This gave a slightly lower center of mass and a lower profile.

Roadsters continued to race until the late 1960s, although they became increasingly uncompetitive against the new rear-engined racing cars. The last roadster to complete the full race distance was in 1965, when Gordon Johncock finished fifth in the Wienberger Homes Watson car. The last roadster to make the race was built and driven by Jim Hurtubise in the 1968 race and dropped out early.^[20]

Some pavement midget roadsters were built and raced into the early 1970s but never were dominant.^[21]

See also

[edit]

- Barchetta, a related two-seater body style designed primarily for racing
- Convertible, the general term to describe vehicles with retractable roofs and retractable side windows
- Roadster utility
- Tonneau cover, a protective cover for the seats in an open car

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[edit]

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6. ^ Society of Automobile Engineers, Nomenclature Division (August 20, 1916). "What's What in Automobile Bodies Officially Determined" (pdf). *The New York Times*. New York, NY USA. Nomenclature Division, Society of Automobile Engineers. ISSN 0362-4331. OCLC 1645522. Retrieved 2012-05-31. "Here it is, with other body types and distinctions, officially determined recently by the Nomenclature Division of the Society of Automobile Engineers:"
7. ^ **a b** Clough, Albert L. (1913). *A dictionary of automobile terms*. The Horseless Age Company. LCCN 13003001. Retrieved 1 September 2014.
8. ^ Culshaw, David; Horrobin, Peter (2013) [1974]. "Appendix 5 - Coachwork styles". *The complete catalogue of British Cars 1895 - 1975 (e-book ed.)*. Poundbury, Dorchester, UK: Veloce Publishing. pp. 480–484. ISBN 978-1-845845-83-4.
9. ^ "The Used Car Problem". *Garage Organization and Management*. Taylor & Francis. pp. 259–260. Retrieved 2012-10-26. "(for the purposes of this British publication) 'In order to avoid confusion, however, the universally understood terms "Tourer", "Coupé", "Saloon", "Limousine", etc., have been adopted, adding the American term 'Roadster' as the two-seater edition of the tourer.'"
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11. ^ **a b** The Cutdown Speedster — ClassicSpeedsters.com
12. ^ Georgano 1971, p. 216.
13. ^ Culshaw & Horrobin 2013, p. 482.
14. ^ "Mazda Produces 900,000th MX-5, Recognized as World's Best-Selling Sports Car". *www.motortrend.com*. Retrieved 23 June 2018.
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External links

[edit]

-  Image not found or image unknown Media related to Roadsters at Wikimedia Commons

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- **t**
- **e**

Car design

Classification	By size	<ul style="list-style-type: none"> ○ Micro ○ Kei ○ Subcompact ○ Supermini ○ Family ○ Compact ○ Mid-size ○ Full-size
	Custom	<ul style="list-style-type: none"> ○ Baja Bug ○ Hot rod ○ Lead sled ○ Lowrider ○ Sandrail ○ T-bucket
	Luxury	<ul style="list-style-type: none"> ○ Compact executive ○ Executive ○ Personal
	Minivan / MPV	<ul style="list-style-type: none"> ○ Compact ○ Leisure ○ Mini
	SUV	<ul style="list-style-type: none"> ○ Compact ○ Crossover (CUV) ○ Mini ○ Coupe SUV
	Sports	<ul style="list-style-type: none"> ○ Grand tourer ○ Hot hatch ○ Muscle ○ Pony ○ Sport compact ○ Sports sedan ○ Super ○ Go-kart
	Other	<ul style="list-style-type: none"> ○ Antique ○ Classic ○ Economy ○ Ute ○ Van ○ Vintage car

Body styles

- 2+2
- Baquet
- Barchetta
- Berlinetta
- Brougham
- Cabrio coach
- Cab over
- Cabriolet / Convertible / Drophead coupe
- Coupe
- Coupé de Ville / Sedan de Ville
- Coupé utility
- Fastback
- Hardtop
- Hatchback
- Kammback
- Landaulet
- Liftback
- Limousine
- Microvan
- Minibus
- Multi-stop truck
- Notchback
- Panel van
- Phaeton
- Pickup truck
- Quad coupé
- Retractable hardtop
- Roadster / Spider / Spyder
- Runabout
- Saloon / Sedan
- Sedan delivery/Panel van
- Shooting brake
- Station wagon
- Targa top
- Torpedo
- Touring
- Town (Coupé de Ville)
- T-top
- Vis-à-vis

Specialized vehicles

- All-terrain vehicle
- Amphibious
- Connected
- Driverless (autonomous)
- Dune buggy
- Go-kart
- Gyrocar
- Pedal car
- Personal rapid transit
- Police car
- Flying car
- Taxicab
- Tow truck
- Voiturette

Propulsion

- Alternative fuel
- Autogas
- Biodiesel
- Biofuel
- Biogasoline
- Biogas
- Compressed natural gas
- Diesel
- Electric (battery
- NEV)
- Ethanol (E85)
- Fossil fuel
- Fuel cell
- Fuel gas
- Natural gas
- Gasoline / petrol (direct injection)
- Homogeneous charge compression ignition
- Hybrid (plug-in)
- Hydrogen
- Internal combustion
- Liquid nitrogen
- Liquified petroleum gas
- Steam

Drive wheels

- Front-wheel
- Rear-wheel
- Two-wheel
- Four-wheel
- Six-wheel
- Eight-wheel
- Ten-wheel
- Twelve-wheel

Engine position

- Front
- Mid
- Rear

**Layout
(engine / drive)**

- Front-front
- Front mid-front
- Rear-front
- Front-rear
- Rear mid-rear
- Rear-rear
- Front-four-wheel
- Mid-four-wheel
- Rear-four-wheel
- Dual motor-four-wheel
- Individual wheel drive

**Engine configuration
(internal combustion)**

- Boxer
- Flat
- Four-stroke
- H-block
- Reciprocating
- Single-cylinder
- Straight
- Two-stroke
- V (Vee)
- W engine
- Wankel

- **Portal**
- **Category**
- **Template:EC car classification**

About Internal combustion engine

An internal burning engine (ICE or IC engine) is a warmth engine in which the burning of a fuel accompanies an oxidizer (generally air) in a burning chamber that is an essential part of the functioning liquid circulation circuit. In an internal combustion engine, the growth of the high-temperature and high-pressure gases created by burning uses straight pressure to some component of the engine. The force is commonly applied to pistons (piston engine), turbine blades (gas wind turbine), a rotor (Wankel engine), or a nozzle (jet engine). This force moves the part over a range. This procedure changes chemical power right into kinetic power which is made use of to thrust, move or power whatever the engine is affixed to. The initial readily successful internal burning engines were created in the mid-19th century. The initial contemporary internal combustion engine, the Otto engine, was created in 1876 by the German designer Nicolaus Otto. The term interior combustion engine typically refers to an engine in which burning is recurring, such as the more familiar two-stroke and four-stroke piston engines, together with versions, such as the six-stroke piston engine and the Wankel rotating engine. A second course of internal combustion engines make use of constant burning: gas generators, jet engines and the majority of rocket engines, each of which are inner burning engines on the exact same principle as formerly defined. On the other hand, in exterior combustion engines, such as vapor or Stirling engines, energy is supplied to a functioning liquid not containing, blended with, or contaminated by burning products. Working fluids for external combustion engines include air, hot water, pressurized water or perhaps boiler-heated liquid salt. While there are several fixed applications, most ICEs are utilized in mobile applications and are the main power supply for vehicles such as cars, airplane and boats. ICEs are normally powered by hydrocarbon-based fuels like natural gas, fuel, gasoline, or ethanol. Renewable gas like biodiesel are used in compression ignition (CI) engines and bioethanol or ETBE (ethyl tert-butyl ether) produced from bioethanol in stimulate ignition (SI) engines. As early as 1900 the innovator of the diesel engine, Rudolf Diesel, was utilizing peanut oil to run his engines. Renewable fuels are typically mixed with nonrenewable fuel sources. Hydrogen, which is rarely made use of, can be acquired from either nonrenewable fuel sources or renewable resource.

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About Shorewood Home & Auto (Formerly Circle Tractor)

Driving Directions in Will County

john deere homer glen

41.64194464615, -87.907293353371

Starting Point

Shorewood Home & Auto (Formerly Circle Tractor), 13639 W 159th St, Homer Glen, IL 60491, USA

Destination

[Open in Google Maps](#)

john deere homer glen

41.664600222373, -87.96819704524

Starting Point

Shorewood Home & Auto (Formerly Circle Tractor), 13639 W 159th St, Homer Glen, IL 60491, USA

Destination

[Open in Google Maps](#)

atv rental chicago il

41.545276661987, -87.96486613091

Starting Point

Shorewood Home & Auto (Formerly Circle Tractor), 13639 W 159th St, Homer Glen, IL 60491, USA

Destination

[Open in Google Maps](#)

auto atv

41.58938458501, -87.942080491627

Starting Point

Shorewood Home & Auto (Formerly Circle Tractor), 13639 W 159th St, Homer Glen, IL 60491, USA

Destination

[Open in Google Maps](#)

atv push mower

41.619926653045, -87.892455610928

Starting Point

Shorewood Home & Auto (Formerly Circle Tractor), 13639 W 159th St, Homer Glen, IL 60491, USA

Destination

[Open in Google Maps](#)

atv rental chicago il

41.544615869136, -87.989359069024

Starting Point

Shorewood Home & Auto (Formerly Circle Tractor), 13639 W 159th St, Homer Glen, IL 60491, USA

Destination

[Open in Google Maps](#)

john deere homer glen

41.620165606192, -87.989335447653

Starting Point

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Destination

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atv stores in illinois

41.554418107696, -87.979806538721

Starting Point

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Destination

[Open in Google Maps](#)

gravely tractors & polaris atv

41.562098144276, -87.981490622895

Starting Point

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Destination

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auto atv

41.552561624984, -87.891646486351

Starting Point

Shorewood Home & Auto (Formerly Circle Tractor), 13639 W 159th St, Homer Glen, IL 60491, USA

Destination

Open in Google Maps

Google Maps Location

https://www.google.com/maps/place/Shorewood+Home+%26+Auto+%28Formerly+Circle+Tractor%29/@41.587958021423633,25.2z/data=!4m6!3m5!1s0x880e41f2e579f223:0xe5c5c23b2b8dc77a!8m2!3d41.598588!4d87.9510205!16s%2F

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Open in Google Maps

Google Maps Location

https://www.google.com/maps/place/Shorewood+Home+%26+Auto+%28Formerly+Circle+Tractor%29/@41.688,000192733008,25.2z/data=!4m6!3m5!1s0x880e41f2e579f223:0xe5c5c23b2b8dc77a!8m2!3d41.598588!4d87.9510205!16s%2F

Click below to open this location on Google Maps

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Google Maps Location

<https://www.google.com/maps/place/Shorewood+Home+%26+Auto+%28Formerly+Circle+Tractor%29/@41.587.9510205,25.2z/data=!4m6!3m5!1s0x880e41f2e579f223:0xe5c5c23b2b8dc77a!8m2!3d41.598588!4d-87.9510205!16s%2F>

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Shorewood Home & Auto

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City : Shorewood

State : IL

Zip : 60404

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Google Business Profile

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