



## Quick Assembly Car Kit

[www.pinewoodpro.com](http://www.pinewoodpro.com)

### Your Pinewood Derby Car kit includes:

- BSA pinewood derby car block - painted, pre-weighted with optimal center of gravity for maximum speed and with pre-drilled axle holes so your car rolls straight.
- BSA Speed Wheels, precision lathed to remove imperfections. Wheels are slightly lighter so your car starts fast and rolls fast.
- BSA Axles - deburred and polished
- PRO Axle Inserter Guide Tool
- Wheel Spacer gauge for gapping your wheels, if needed, after the axles/wheels are installed

## 1. Lubricate your Axles to reduce friction

Squirt graphite into both sides of the wheel bore where the axle goes through. Insert the axle and spin the wheel. Do this on all four wheels/axles. Get as much graphite as possible on your axles and inside the wheel bore. This process reduces friction on the axle and is the **single most important thing to make your car fast**.

**Warning!** Graphite is messy! It is best to wear light gloves. When applying graphite, be sure to do it over newspaper and in a safe area away from food and where children play. Wash your hands thoroughly when finished.

**Cleaner Lubricant** – NyOil is a thin film oil lubricant. It is invisible and a great lube for races that allow an oil lube.

## 2. Install the Axles and Wheels

Follow the instructions in the PRO Axle Guide package to insert your axles and wheels. Be sure to push the axle all the way in until the wheel meets the metal wheel spacer on the PRO Axle Guide.

**NOTE!** Once you have your axles inserted and spaced, drop a dab of glue near the pointed part of your axles to avoid your car from getting knocked out of alignment. **DO NOT** let the glue get near the wheels!

## 3. Speed Option - Raise one wheel for extra speed!

Your car block includes an extra axle hole above the front left axle hole. If your rules don't say "*All four wheels must touch the track*", insert the front left axle into the top axle hole to raise the left front wheel so it doesn't touch the track...**your car will actually roll fine on 3 wheels!** Raising one wheel will make your car faster because it takes less energy to spin 3 wheels than it does to spin 4 wheels. You can fill the extra hole with wood putty or just leave it.

Read your rules! If your rules say, "*All four wheels must touch the track*", then you can not raise a wheel and you must insert your axle into the lower axle hole.

That's it...Your car is ready to race!

Have fun and don't forget to share your story on our Facebook page [www.facebook.com/pinewoodpro](http://www.facebook.com/pinewoodpro)

You can also email [info@pinewoodpro.com](mailto:info@pinewoodpro.com) and we will add your story and pictures to our Gallery.

**Want more speed?** Download our **Winning Pinewood Derby Secrets** book!  
<http://www.pinewoodpro.com/p/010111.html>

**Questions? Call us! 203-400-3713**