

Car Assembly Instructions:

ALL CARS MUST PASS INSPECTION TO QUALIFY FOR THE RACE

DO NOT PUT ANY NUMBERS ON YOUR CAR – THEY WILL BE ASSIGNED ON THE RACE DAY

Following are the Inspection Points:

1. The **car weight** shall **not exceed 0.5 lb.** The official **race scale** (which we will have at the church on Race Day and every Sunday leading up to Race Day in the foyer)
2. The overall **length of the car** can not exceed **8 inches.**
3. The overall **width of the car** can not exceed **2¾ inches.**
4. The **maximum height of the car** is whatever you want it to be.
5. The car **must** have **1¾” clearance** between the wheels (if there is any more or any less it will not fit on the track).
6. The car must have at least **3/8” clearance underneath the body.**
7. The **wood provided in the kit must be used.** The block may be shaped any way that is desired and added on to, but the weight must not exceed 0.5 lb.
8. The **wheels** supplied with the kit must be used and you can do whatever you like with them as long as they don't change the other required specs listed above.
9. The **axles** supplied with the kit must be used. They may be polished or lubricated.
10. The car must be **free-wheeling** aka: powered by gravity. No starting devices.
11. Your **front wheels** can not extend past the nose of the block. The farthest forward they can be is flush with the nose of the block. There can be no slits or grooves which allow your wheels to be ahead of the start line.
12. All cars must have the **participant's name** on the **bottom of the car.**
13. Your **car number will be added the morning of the race** next to your name on the bottom of the car.
14. ***Cars must be delivered to Sam Neufeld in the Fellowship Hall/Foyer prior to Worship Service on Race Day!***

Suggestions:

1. The more **wind resistance** there is, the slower your car will go
2. **Add weight** in the right places
3. Try and figure out a **suspension** mechanism for the back ;)
4. Use **Crazy Glue** to hold the axles in, hot glue lets the axels vibrate
5. **Lubricate** your axles

Need Help?

Go to this website <http://www.abc-pinewood-derby.com/blocks.php> for car ideas and “how-to’s”. This website has some great ideas and even some products for sale that may help you out. (The regulations on this website **do not** apply, what you see above is what applies to West Zion Race Day).

Have a fun time building your car, do your best, and consider both **speed & design** because there will be a **prize** (and your name on the plaque) for the **fastest car** and a **prize** (and your name on the plaque) for the **best-designed car**.

If you have any more questions, text or call Sam Neufeld @ **587-703-6048** 😊