



# INSTRUCTIONS

The Accutoe Advanced is an extremely accurate laser alignment system when used correctly. Please read the following instruction to insure you can get the most out of your new Accutoe Advanced.

**Make sure you have all your components to your Accutoe Advanced System. Your kit should include...**

- 1 Precision Laser with scale installed
- 1 Battery Pack and Required Cable
- 1 T-Handle
- 1 Mirror Bracket with mirror and built in camber gauge
- 2 Lightweight Spindle Nuts
- 1 Spindle Extension
- 1 Plastic case with custom foam lining
- Accutoe Advanced decals

**Objective of the Accutoe Advanced System...** To align the front and rear axles of a chassis by projecting a laser beam between the two axles in a reflective manner. Also, the Accutoe Advanced kit allows you to accurately check camber while also checking your toe and front end alignment. This ensures a more precise front end setting.

## **Instructions for Accutoe Advanced System**

The Accutoe Advanced kit allows you to align your chassis in an “as raced” form with wheels tires and driver in place.

***Aligning the right side...*** *The left side can be substituted if desired.*

1. With your kart and driver sitting on a flat surface (preferably your scales), insert the rear laser assembly into the rear axle.
2. Place the supplied T-Handle in the opposite side of the laser housing and turn counter-clockwise until the laser assembly is secure inside the rear axle. This procedure expands the collet on the end of the laser and secures the assembly inside the axle.
3. Lock your steering shaft into the desired position (usually with pitman arm at a 90° angle to the tie rods). Having a steering lock that will consistently repeat this location is required. The optional Accutoe Pro steering lock (part# 1145210) is recommended.
4. Install the front spindle nuts on each side of your chassis.
5. Install the spindle axle extension by turning the extension into the end of the spindle nuts. The extension will lock securely against the end of the spindle.
6. Attach and plug in the battery pack to the laser housing. This will automatically turn the laser on. Be sure to remove the battery pack when you are finished aligning your chassis so that the batteries do not go bad.
7. Install the mirror bracket on the front spindle axle extension so the mirror faces the rear of the kart from the underside of the spindle axle.
8. Pivot the mirror bracket on the spindle axle until the reflected laser beam is at an approximate height to intersect the laser housing.
9. Adjust the spindle tie rod in or out until the reflected laser dot is aligned with the centerline (or desired toe setting for the left side) on the laser housing. Be sure to jam lock your tie rod into position.
10. By using the camber gauge built into the top of the mirror bracket, accurately set your camber.
11. Recheck your toe after setting your camber to make sure it is at the desired setting.
12. Turn the laser off and remove the Accutoe Advanced System in reverse manner from which you installed it.
13. Repeat the following steps on the opposite side of the chassis.