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Team Associated ASC30141

Team Associated TC8 Graphite-Spec Team Kit (ASC30141) Instruction Manual

Model: ASC30141

1. SAFETY INFORMATION

WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property, and cause serious injury.

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision.

Do not use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. The product manual contains instructions for safety, operation, and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup, or use, in order to operate correctly and avoid damage or serious injury.

2. PRODUCT OVERVIEW

The Team Associated TC8 Graphite-Spec Team Kit (ASC30141) is a high-performance touring car chassis designed for competitive racing. This kit requires assembly and additional electronic components to be fully operational.

Key Features:

- Mid-Motor Configuration with Symmetrical Belts: Optimizes weight distribution and power delivery.
- Centralized Ultra-Short Shock Design: Enhances handling and responsiveness.
- TC8GS Carbon Fiber Chassis: Provides a lightweight yet rigid platform.
- Horizontal Rear Body Mount: Offers flexible body mounting options and improved aerodynamics.
- High-Volume Rear Differential: Ensures consistent power transfer and durability.



Image: The Team Associated TC8 Graphite-Spec Team Kit, shown with a clear body shell, highlighting its racing chassis design.

3. PACKAGE CONTENTS

The Team Associated TC8 Graphite-Spec Team Kit (ASC30141) includes the following components:

- TC8 Graphite-Spec Team Kit (unassembled chassis components)

Note: This is a kit and requires additional items for completion, such as a motor, electronic speed controller (ESC), servo, radio system, battery, charger, and body.

4. SETUP AND ASSEMBLY

Assembly of the TC8 Graphite-Spec Team Kit requires careful attention to detail and adherence to the included detailed assembly manual (separate from this overview). Ensure you have all necessary tools before beginning.

4.1. Chassis Assembly

Follow the step-by-step instructions in the dedicated assembly manual for building the carbon fiber chassis, suspension arms, bulkheads, and drivetrain components. Pay close attention to screw lengths and thread-locking compound application where specified.

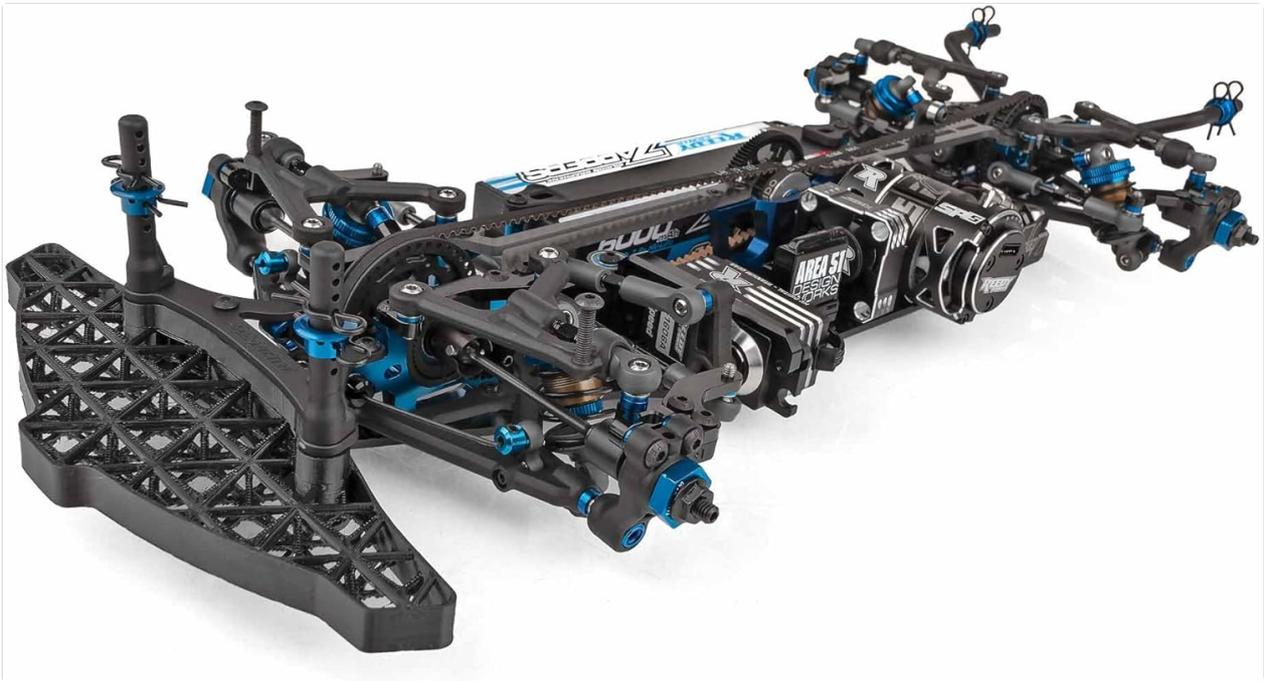


Image: An angled view of the TC8 Graphite-Spec chassis, showcasing the intricate suspension and belt-driven drivetrain.

4.2. Drivetrain and Differentials

Assemble the front and rear differentials according to the manual, ensuring proper lubrication and shimming for smooth operation. Install the drive belts, ensuring correct tension. The high-volume rear differential is designed for consistent performance.



Image: A top-down view of the TC8 Graphite-Spec chassis, illustrating the mid-motor layout and symmetrical belt system.

4.3. Suspension and Steering

Assemble the shocks, ensuring they are filled with the correct weight oil and are bleed properly. Attach the suspension arms, steering knuckles, and turnbuckles. Set initial camber, toe, and ride height as recommended in the manual.

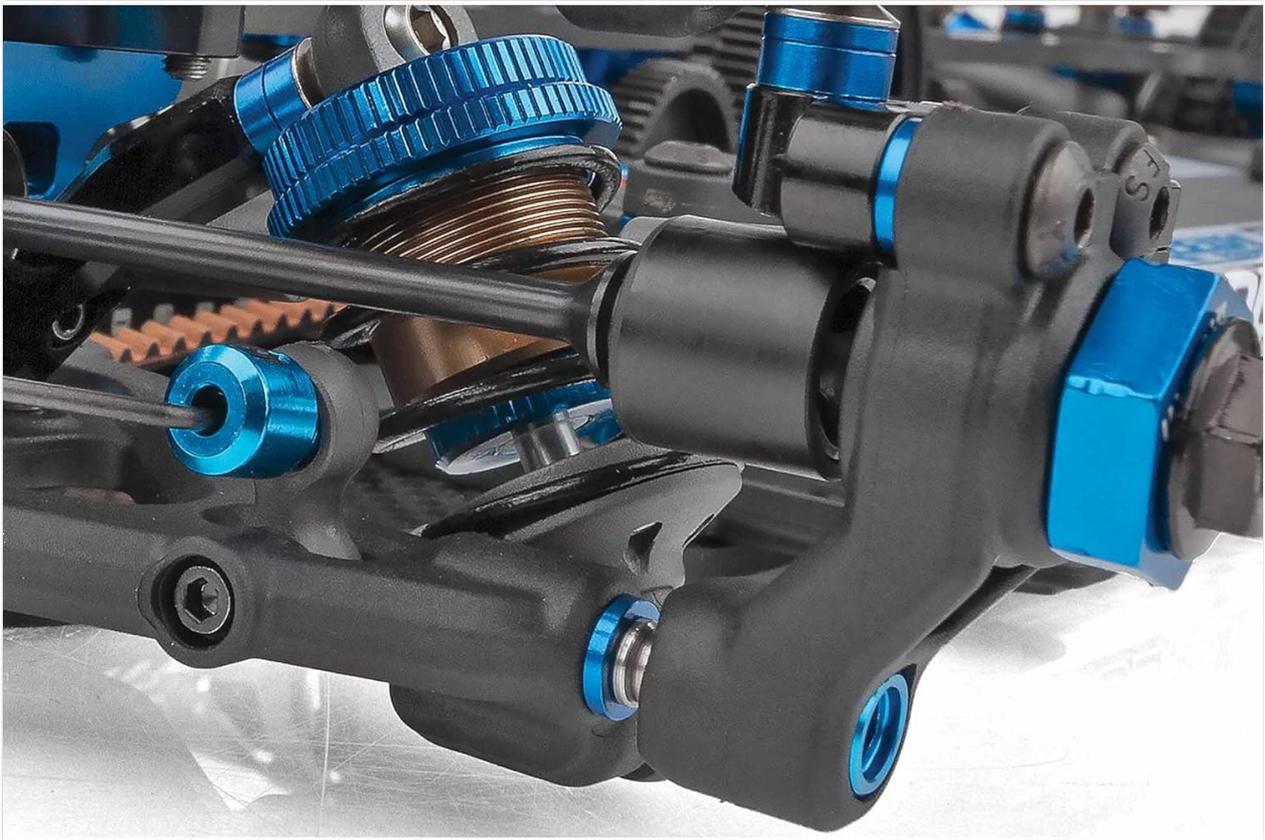


Image: A detailed close-up of a shock absorber and associated suspension components on the TC8 Graphite-Spec chassis.

4.4. Electronics Installation

Install your chosen motor, ESC, steering servo, and receiver. Ensure all wiring is neat, secure, and does not interfere with moving parts. Calibrate the ESC and radio system according to their respective manuals.





Image: A top-down view of the fully assembled TC8 Graphite-Spec chassis, showing the placement of a motor, battery, and other electronic components.

4.5. Body Preparation

Paint and trim your chosen touring car body. Mount it to the chassis using the horizontal rear body mount and front body posts, ensuring proper clearance for wheels and suspension travel.

5. OPERATING INSTRUCTIONS

Before operating your TC8 Graphite-Spec Team Kit, ensure all components are securely fastened and electronics are properly calibrated.

5.1. Pre-Run Checklist

- Check battery charge level.

- Verify radio system functionality and range.
- Inspect all screws for tightness.
- Ensure wheels are securely attached.
- Check suspension for free movement.

5.2. Driving Tips

- Start with gentle throttle inputs to familiarize yourself with the vehicle's handling.
- Practice steering and braking in an open, safe area.
- Avoid operating in wet conditions or areas with loose debris to prevent damage.
- Always maintain a clear line of sight to the vehicle.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your TC8 Graphite-Spec Team Kit.

6.1. Post-Run Maintenance

- Clean the chassis and components of dirt and debris using a soft brush or compressed air.
- Inspect for any loose screws, damaged parts, or worn tires.
- Check differential fluid levels and shock oil.
- Charge batteries safely.

6.2. Periodic Maintenance

- Disassemble and clean differentials, replacing fluid as needed.
- Inspect and replace worn drive belts.
- Check bearings for smooth operation and replace if rough.
- Lubricate moving parts as recommended in the assembly manual.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your TC8 Graphite-Spec Team Kit.

7.1. Vehicle Not Responding

- **Issue:** No power to motor or steering servo.
Solution: Check battery connection, ensure battery is charged, verify ESC and receiver are powered on and bound to the transmitter.
- **Issue:** Steering works, but no throttle.
Solution: Re-calibrate ESC to transmitter. Check motor connections.

7.2. Poor Handling

- **Issue:** Car pulls to one side.
Solution: Adjust steering trim on transmitter. Check for bent suspension components or incorrect toe settings.
- **Issue:** Excessive body roll or instability.
Solution: Check shock oil weight, spring rates, and anti-roll bar settings. Ensure all suspension links are free of binding.

7.3. Excessive Noise or Vibration

- **Issue:** Grinding or clicking sounds from drivetrain.
Solution: Inspect gears for damage, check belt tension, and verify differential assembly.
- **Issue:** General vibration.
Solution: Check for bent axles, unbalanced wheels, or loose motor mounting screws.

8. SPECIFICATIONS

Detailed specifications for the Team Associated TC8 Graphite-Spec Team Kit (ASC30141).

Attribute	Value
Product Dimensions	14.6 x 8.1 x 2.6 inches
Item Weight	2.2 pounds
Item Model Number	ASC30141
Manufacturer Recommended Age	14 years and up
Release Date	May 14, 2025
Manufacturer	Horizon Hobby

9. WARRANTY INFORMATION

Warranty coverage for the Team Associated TC8 Graphite-Spec Team Kit (ASC30141) is provided by the manufacturer, Horizon Hobby. Please refer to the warranty card included with your product or visit the official Team Associated or Horizon Hobby website for detailed warranty terms and conditions. Warranty typically covers manufacturing defects for a specified period from the date of purchase.

10. CUSTOMER SUPPORT

For technical assistance, spare parts, or further inquiries regarding your Team Associated TC8 Graphite-Spec Team Kit, please contact Horizon Hobby customer support. Contact information can typically be found on the manufacturer's website or in the product packaging.

Online Resources: Visit the official Team Associated website for product updates, additional manuals, setup sheets, and community forums.