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Team Associated ASC40135

Team Associated Enduro Builder’s Kit 3 Instruction Manual

Model: ASC40135

Product Overview

The Team Associated Enduro Builder’s Kit 3 (ASC40135) is an advanced remote-controlled vehicle kit designed for enthusiasts to assemble. This kit features updated components for enhanced performance and durability, focusing on improved suspension, steering, and drivetrain capabilities for challenging terrains.
Key updates include GKS shock towers, Factory Team bronze shocks, a GKS aluminum track bar mount, and updated high-clearance links. The kit also incorporates the Stealth XF transmission with adjustable front and rear drive ratios and Behind-The-Axle (BTA) steering for superior approach angle and front-end clearance.

Features

- **Solid Axle Front Suspension:** Provides robust and reliable performance over varied terrain.
- **Behind-The-Axle (BTA) Steering:** Improves approach angle and front-end clearance, enhancing maneuverability.
- **Threaded Aluminum Shock Bodies:** Offers precise adjustment for suspension tuning and improved durability.
- **Stealth XF Gearbox With Forward Motor Mount:**Optimizes weight distribution and allows for independent adjustment of front and rear drive ratios.
- **Aluminum Motor Plate:** Ensures secure motor mounting and aids in heat dissipation.

Kit Contents and Assembly Overview

This Builder's Kit requires assembly. The following images illustrate key components and the overall chassis structure before body installation.



Figure 1: Fully assembled chassis of the Enduro Builder's Kit 3, showing the motor, battery tray, and suspension components.





Figure 2: Top-down view of the chassis, highlighting the central transmission, battery placement, and overall layout.



Figure 3: Detailed view of the front shock assembly, including the GKS shock tower and threaded aluminum shock body.



Figure 4: Detailed view of the rear shock assembly, showing the shock tower and the bronze-colored shock body.

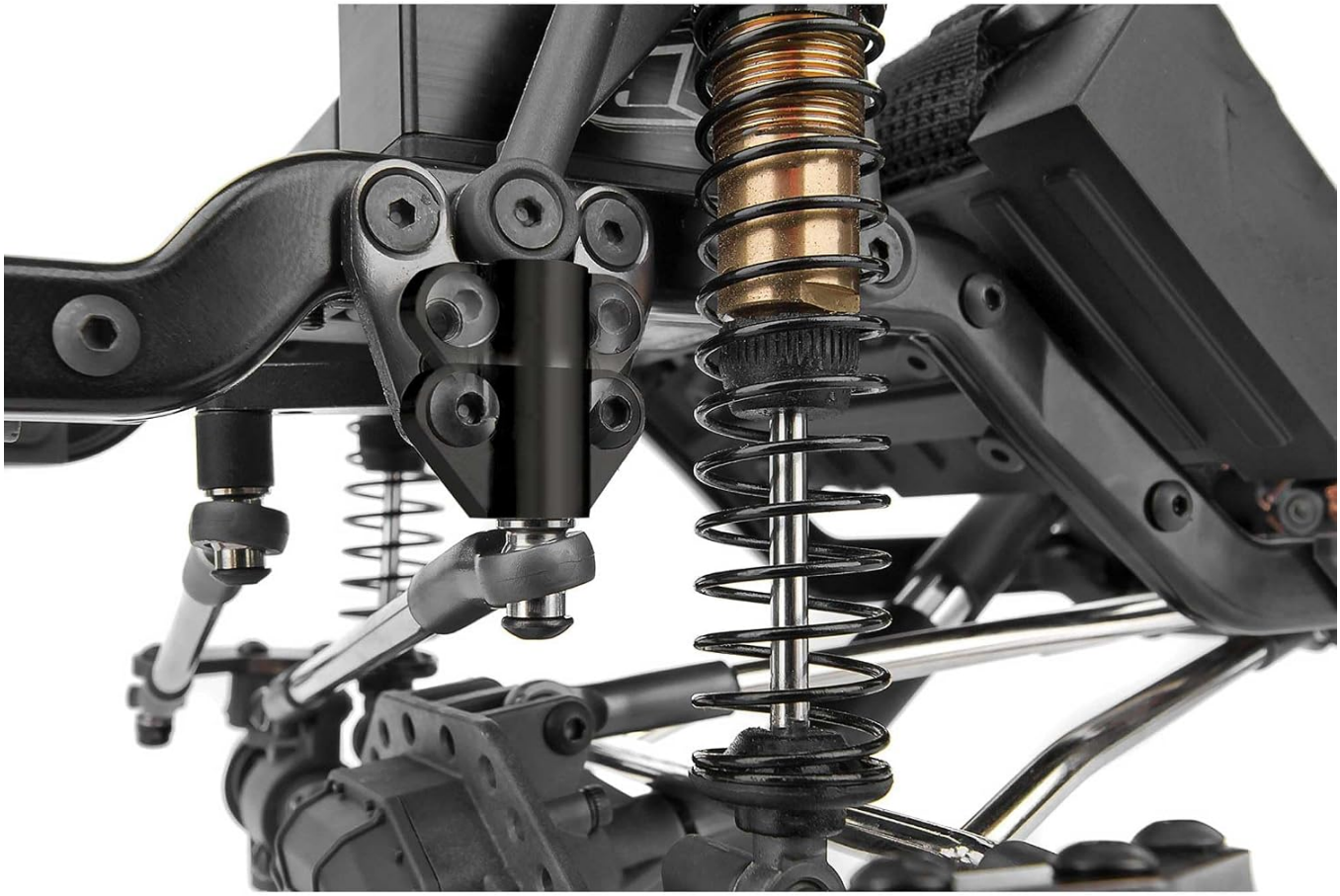


Figure 5: Underside view showing the suspension links and the durable Factory Team steel pivot balls for smooth articulation.



Figure 6: Close-up of the Stealth XF gearbox with the forward motor mount, showcasing the motor and transmission assembly.



Figure 7: View of the GKS aluminum track bar mount, bolted directly to the frame rails for increased rigidity, and the steering links.



Figure 8: Example of 6mm hex wheel hubs, essential for wheel attachment.



Figure 9: Collection of Factory Team steel pivot balls, used in various articulation points of the suspension and steering.

Required for Completion (Not Included in Kit):

- 2-channel radio system
- Steering servo
- Electronic Speed Controller (ESC)
- 540-size motor
- 7.4V LiPo battery pack
- Battery charger
- Polycarbonate paint for body
- Assembly tools (e.g., hex drivers, pliers, hobby knife)

Setup and Assembly

The Enduro Builder's Kit 3 is designed for experienced hobbyists. Follow the detailed instruction manual provided within the kit for step-by-step assembly. Pay close attention to the following critical areas:

1. **Chassis Assembly:** Assemble the frame rails and cross members according to the manual. Ensure all screws are tightened securely but do not overtighten.
2. **Drivetrain Installation:** Install the Stealth XF transmission, ensuring proper gear mesh. The kit includes 5.7% and 11.83% overdrive gears; select the desired ratio during assembly. Refer to the manual for correct orientation of overdrive gears.
3. **Axle and Suspension Assembly:** Assemble the front and rear solid axles. Install the GKS shock towers and Factory Team bronze shocks. Adjust shock angle, droop, and ride height using the shock mount inserts.
4. **Steering System:** Install the Behind-The-Axle (BTA) steering components and the GKS aluminum track bar mount.

Ensure smooth movement and proper alignment.

5. **Electronics Installation:** Mount your chosen steering servo, ESC, and motor. Route wiring neatly and securely. Connect the radio receiver.
6. **Linkage and Driveshafts:** Install the high-clearance links and driveshafts. Ensure all pivot points are free-moving.
7. **Wheel and Tire Mounting:** Mount tires onto wheels and attach them to the hex hubs.
8. **Body Preparation:** Trim and paint the polycarbonate body according to your preference. Mount the body to the chassis using the provided body posts.

Note: *A user review mentioned potential discrepancies in the included instruction manual regarding shock O-ring placement and overdrive gear orientation. Always cross-reference with official Team Associated resources or community forums if you encounter difficulties.*

Operating Instructions

Once assembled and all electronics are installed and calibrated, the Enduro Builder's Kit 3 is ready for operation. Ensure your battery is fully charged and your radio system is properly bound and calibrated to the vehicle's ESC and steering servo.

- **Pre-Run Check:** Before each use, inspect all screws for tightness, check suspension movement, and ensure steering operates freely. Verify battery charge level.
- **Starting the Vehicle:** Turn on your radio transmitter first, then connect the battery to the ESC. Wait for the ESC to initialize.
- **Driving:** Use the throttle trigger for forward and reverse movement, and the steering wheel for direction control. Practice in an open area to familiarize yourself with the vehicle's handling characteristics.
- **Overdrive Functionality:** The Stealth XF transmission allows for different front/rear drive ratios. Experiment with the 5.7% and 11.83% overdrive gears to find the optimal setup for your driving style and terrain.
- **Stopping:** Always turn off the vehicle's power (disconnect battery) before turning off the transmitter.

Maintenance

Regular maintenance is crucial for the longevity and performance of your Enduro Builder's Kit 3.

- **Cleaning:** After each run, especially in dirty or wet conditions, clean the chassis and components. Use a soft brush or compressed air to remove dirt and debris. Avoid using water directly on electronics.
- **Lubrication:** Periodically lubricate moving parts such as universal joints, bearings (if applicable), and shock shafts with appropriate RC-specific lubricants.
- **Screw Check:** Regularly check all screws and fasteners for tightness. Vibrations during operation can cause screws to loosen.
- **Shock Maintenance:** Inspect shocks for leaks and smooth operation. Rebuild shocks periodically by replacing O-rings and refilling with shock oil.
- **Drivetrain Inspection:** Check gears for wear and tear. Ensure the motor pinion and spur gear mesh is correct.
- **Linkage and Pivot Points:** Ensure all suspension and steering linkages move freely and are not binding. Inspect pivot balls for wear.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Vehicle does not respond to throttle/steering	Low battery (vehicle or transmitter), loose wiring, ESC not armed, radio not bound.	Charge/replace batteries. Check all connections. Re-bind radio. Refer to ESC manual for arming procedure.
Vehicle runs slowly or lacks power	Low battery, motor/ESC overheating, binding in drivetrain, worn motor brushes (brushed motors).	Charge battery. Allow components to cool. Check for debris or tight spots in drivetrain. Inspect motor.
Steering is erratic or unresponsive	Loose servo horn, damaged servo, binding in steering linkage, radio interference.	Tighten servo horn screw. Inspect servo for damage. Check steering links for smooth movement. Change radio channel or location.
Unusual noises from transmission/gears	Incorrect gear mesh, debris in gears, worn gears, loose motor mount.	Adjust gear mesh. Clean gears. Replace worn gears. Tighten motor mount screws.

Specifications

Attribute	Detail
Product Dimensions	15.9 x 10.7 x 4.4 inches
Item Weight	4.6 pounds
Model Number	ASC40135
Manufacturer Recommended Age	14 months - 9 years (*Note: This age range appears to be a general Amazon categorization. Due to the complexity of a "Builder's Kit," it is generally recommended for ages 14+ or with adult supervision.*)
Manufacturer	Team Associated

Warranty and Support

For specific warranty information and technical support regarding your Team Associated Enduro Builder's Kit 3, please refer to the documentation included with your product or visit the official Team Associated website. Warranty terms and conditions may vary.
It is recommended to register your product with Team Associated, if applicable, to ensure you receive updates and support.

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