TRAX

ELECTRIC TRAILER DOLLY

TX6000

Owner’s manual

From opening the carton to parking your trailer. Follow the setup, hitching and operating instructions for your TX6000.



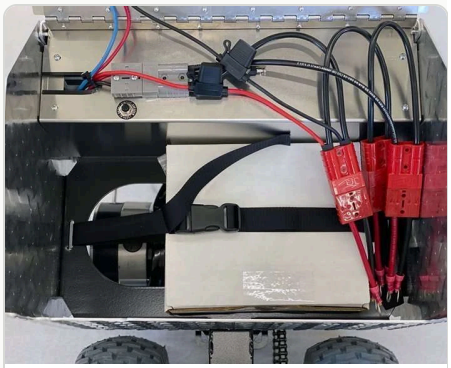
FIRST SETUP / 01

Open the carton and check your kit

Keep the carton, inserts and bags until you have accounted for the parts. If the carton arrived damaged, photograph it before unpacking.

Where to find the parts

1. **Find the long steel shaft along the side of the carton.** The short steel handle for the T-handle has one rubber grip already fitted and is tied or strapped to the side of the shaft.
2. **Open the dolly's battery box.** The cardboard box holds the second rubber grip, clevis pin, thumb throttle, penny washer, thrust bearing, flat adjustment plate, red and black terminal boots, two zip ties, two Allen keys and a black D-ring retainer for the trailer's jack post.
3. **Look inside the battery box for the main power harness.** The short battery cable ends ship connected to this harness.



Inside the TX6000 battery box. The red quick connects are visible on the right.

Check the rest of the order. Identify the EZ-Secure-Lock ball mount, the hitch ball in the size ordered and the turnbuckle. Check the tires against your order. The standard pair is 4.5-inch grey pneumatic tires.

Check the order for these two items

The TX6000 needs three UB12350 batteries (12 V, 35 Ah AGM each) and a compatible charger. Both are sold separately. If you ordered the TRAX batteries, check for a separate battery shipment.

When the batteries arrive, check each battery carton. The battery manufacturer usually packs the terminal hardware in a clear resealable bag. For each battery, expect two bolts, two lock washers, two penny washers and two nuts.

Order the TRAX three-battery kit

Order the TRAX three-bank charger

Missing or damaged part? Keep the packaging and send TRAX your order number, packing slip and a photo of what arrived.

FIRST SETUP / 02

Fit the handle and ball stand

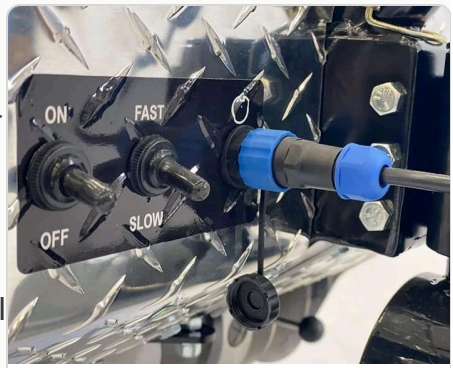
Work on firm, level ground. Keep the power off and the battery harness disconnected during assembly.

1. **Fit the handle.** With one rubber grip already in place, slide the bare end of the short steel handle through one side of the T-handle yoke. Slide the thumb throttle onto the handle with its lever facing up, away from the dolly. Pass the handle through the other side of the yoke. Fit the second rubber grip from the cardboard box inside the battery box.



Assembled T-handle with both rubber grips and the thumb throttle.

2. **Secure the shaft and route the cable.** Seat the T-handle shaft in its socket and align the holes. Insert the clevis pin, fit its retainer and check that the shaft cannot pull out. Run the throttle cable under the yoke and between its sides. Leave slack at the throttle so steering does not pull on the throttle body. Leave enough cable at the lower end for the cannon plug to reach the receiver socket on the dolly body. Secure the cable to the shaft with both zip ties, keeping it clear of pinch points.



The blue locking collar sits beside the power and speed switches.

3. **Connect the throttle.** Rotate the cannon plug until it lines up with the receiver socket, then slide it in. It should slide in easily. If you feel resistance, check the alignment. Once the plug is fully seated, turn the blue locking collar clockwise to secure it. If the plug and socket do not match, contact TRAX.

4. **Install the thrust bearing and penny washer.** Place the thrust bearing in the ball-stand receiver. Either side can face up. Place the hitch penny washer on top of the bearing.

5 **Lower the EZ-Secure-Lock ball stand into the receiver.** Guide the post through the penny washer and thrust bearing until the stand rests on the washer. Match the ball size to the marking on the trailer coupler. See the hitching instructions to fit the adjustable flat plate and set the over-center tension.

FIRST SETUP / 03

Connect the batteries and charger

The TX6000 harness connects three 12 V batteries to make a 36 V pack. For charging, follow the instructions for the charger supplied with your dolly.

1 **Identify the hardware.** Confirm the dolly's power switch is OFF and unplug the charger. Inside the battery box, disconnect the short cable ends from the main harness. Take the red and black terminal boots from the small Ziploc bag inside the cardboard box. Gather the hardware supplied with each battery (see the unboxing checklist).

> **WARNING**
> Install the short cables with the batteries outside the dolly. If a positive terminal touches the alloy battery box, it can short the battery and damage the motor controller.

2 **Match the cables to the TX6000 harness diagram.** Check the polarity marks on each battery and its leads. Red connects to positive (+) and black to negative (−). Keep tools clear of exposed posts. If the diagram is missing, obtain it from TRAX before proceeding.

3 **Fit the short cables and boots.** Thread each short disconnect cable through its matching rubber boot. Pass the bolt through the cable eye, then through the battery lug. On the other side of the lug, fit the penny washer, then the lock washer, then the nut. Tighten to the battery manufacturer's specification. Most bolts take a 10 mm wrench or socket. Some also have a large Phillips recess. Slide the boot over the terminal. Repeat for the other color cable on each battery.

Follow the TRAX diagram for cable routing and the quick-connect sequence. Close the lid only when all terminals are covered and the cables clear the lid.

4 **Charge the batteries.** Use the charger you purchased.

NOCO GEN5X3 off-board charger

Switch the dolly OFF. With the NOCO unplugged, disconnect all three batteries from the main harness. Connect one 12 V battery to each of the charger's three red Anderson quick connects. Plug the fourth cable, the AC power cord, into a standard wall outlet.

Press MODE on each bank to match its battery type. Select 12V for standard lead-acid, 12V AGM for AGM or 12V Lithium for compatible lithium batteries. For TRAX UB12350 batteries, select 12V AGM on all three banks. Check each bank's indicator.

Read the NOCO charging guide (PDF)



NOCO GEN5X3 three-bank charger.

8-hour on-board charger

Plug the supplied cord into the charger, then into a standard wall outlet. Switch the charger ON. The red light shows the charger has power. The separate status light is yellow while the batteries are charging and green when the 36 V pack is fully charged.



Optional 8-hour on-board charger.

5 **Charge in a dry, ventilated area.** Unplug the AC cord after charging. For the NOCO, disconnect the charging leads and reconnect the batteries to the main harness. Secure all cords before moving the dolly.

FIRST SETUP / 04

Learn the controls before hitching

Use a clear, level practice area. Leave the trailer disconnected. Hold the T-handle and keep your feet clear of the tires.

Find the motor park-brake lever

UP applies the motor park brake. DOWN releases it. Lowering the lever releases the dolly's holding brake. Keep the dolly secured against rolling. Never release it with a trailer relying on the dolly to hold it.

Practice starting, stopping and reversing

1. **With the throttle released, switch the dolly ON.** Check the battery lights on the thumb throttle. All three lights (green, yellow and red) indicate full charge. As charge falls, green goes out first, then yellow. If only red is lit, recharge before moving a trailer.

2. **Select SLOW.** This limits top speed to about one quarter. Use the throttle lever to control your speed. Just above the lever is a gray rubber button that feels soft and spongy. Each press switches the dolly from forward to reverse or from reverse to forward.



Motor park-brake lever beside the wheel.

3. **Test forward and reverse.** With the trailer disconnected, lightly press the throttle lever and watch which way the dolly moves. Release the throttle and let the dolly stop completely. Press the gray button once to select the opposite direction. Lightly press the throttle again to confirm the change, then release it to stop.

4. **Practice turning and stopping while walking with the handle.** When finished, release the throttle, stop completely and switch OFF. If motion continues after throttle release, keep the trailer disconnected and contact TRAX.

EVERY MOVE / 05

Set the plate and lock the coupler

1. **Match the hitch ball and plate.** Use the ball size stamped on the coupler. Check the underside where the plate rests. If it is flat, the plate should sit flat against it. If the front tips up, seat the plate pins in their slots. On the front of the stand, loosen the nut on the upside-down silver bolt. Turn the bolt clockwise to raise the plate until it matches the coupler angle. Snug the adjustment nut to keep the bolt from backing off.



EZ-Secure-Lock ball stand and cam handle, shown without the hitch ball.

Insert the ball, latch the coupler and raise the over-center cam by hand. To adjust ball height, release the cam and open the latch. Latch and test again. The cam must lock firmly with no play between stand and coupler. Never force the handle with a tool or extension.

2 **Check the fit with the mount hanging.** Step back a few paces and look at the handle and base from the side. The post must hang straight down, at 90° to level ground. If the base tips forward or the stand rocks, keep the tongue supported and recheck the plate angle, pin seating and ball height. A turnbuckle cannot correct a poor fit.

3 **Choose either hookup method.** Keep the trailer chocked and supported on its jack. In the dolly receiver, check that the thrust bearing is in first and the penny washer sits on top.



TX6000 positioned beneath a trailer coupler.

Leave the mount latched to the trailer. With the cam locked, align the dolly receiver under the hanging post. Use the trailer jack to lower the post into the receiver until the stand is fully seated.

Or seat the mount in the dolly first. Support the stand, release the cam and open the trailer latch. Remove the stand and seat its post in the dolly receiver. Position the ball under the coupler. Lower the coupler onto the ball with the jack, close the trailer latch and raise the cam handle to lock.

With either method, verify the stand is seated, the post is vertical, the latch and cam are locked, and the specified retainers are fitted. Connect the trailer's 7-way plug, then raise the jack post clear. Keep the wheels chocked until ready to move.

> **WARNING**
> Stop if a tire or the handle lifts. A tilted mount can push the tire on the inside of a turn onto its outer edge. The opposite tire and steering handle can lift, making the dolly unstable. Stop, chock the wheels and support the tongue before adjusting the mount.

Watch TRAX fit the adjustable ball mount

EVERY MOVE / 06

Check the turnbuckle and tires

The hitch must be secure before adding secondary stabilization. If the caster starts to lift, stop, chock the trailer and support it before making adjustments.

Fit the turnbuckle when the setup calls for it

1. With the trailer secured, extend the turnbuckle only within the approved thread-engagement range. Attach one end to the mount's designated point.

2. Attach the other end to the trailer's safety chain where it attaches to the frame or, on a compatible round jack leg, the black D-ring from the parts box. Tighten by hand. Recheck the latch, post and caster before travel.

Check the tires before moving the trailer



Turnbuckle attached at the trailer-side chain.

3. **Check the dolly tires under tongue weight.** Inspect both tires and wheels for damage. With the trailer chocked and its tongue weight on the dolly, look at how the tread meets the ground. Aim for even contact across the tread for traction when pushing, pulling and stopping. On air-filled tires, excessive squat lets the sidewalls flex and spring back as you steer, making the dolly hard to pivot. If only the center of the tread touches, you lose contact at the edges.



Optional 6-inch air-filled tire. Check pressure with a gauge when cold.

4. **Check the load and cold tire pressure.** Know the loaded trailer weight and actual tongue weight. Confirm the approved load and cold PSI for the installed tires with TRAX. Use a gauge on both 4.5-inch grey or 6-inch black air-filled tires. If they squat excessively and pressure is low for the load, add air to the approved setting. If they ride on the center and pressure is high, release air to that setting. The sidewall maximum alone does not give the correct operating pressure. Optional 6-inch solid rubber tires need no inflation and raise the TX6000's tongue-weight rating from 900 lb on air tires to 2,000 lb.

5. **Check the most difficult section of the route.** Look for loose gravel, wet grass, a cross-slope, a crest or an abrupt lip. If you are unsure the dolly can safely move and stop the trailer there, confirm the route with TRAX before moving. Keep the tires at the approved pressure.

Walk the route and make the move

Walk from the starting point to the final parking spot before removing the chocks. Look from the operator’s position and check where the back corners of the trailer will swing.

1. **Clear and sight the route.** Check overhead and side clearance, gates, door frames, surface changes, edges, people and pets. Keep a clear place to stand and walk. Never put yourself between the trailer and a fixed object. If you lose sight of a critical clearance or your spotter, stop.
2. **Check the connection once more.** Confirm the post is vertical, the latch and retainers are secure, the jack is clear, the tires are ready and the charger is unplugged. Route the 7-way cable away from moving parts.



The trailer’s 7-way plug connects to this socket on the dolly.

3. **Understand the 7-way.** It controls compatible electric trailer brake application and release. On a compatible boat trailer it sends the reverse signal to the hydraulic surge-brake lockout. Trailer running and reverse lamps may stay dark when connected to the dolly.
4. **Start in SLOW.** Hold the handle, release the throttle, power on and select direction. Remove the chocks only when ready to move. On firm, level ground, move a short distance at low speed and release the throttle to verify stopping. Resolve any brake fault before continuing.
5. **Move in short, controlled increments.** Steer smoothly and stop fully before reversing. If the tires spin, the hitch shifts, the caster lifts, the motor stalls or a breaker trips, release the throttle. Secure the trailer before investigating.

AFTER EACH MOVE / 08

Park and disconnect

Choose a firm, level parking spot. Keep the trailer secured while taking its weight off the dolly.

1. Release the throttle, stop completely and chock the trailer wheels.
2. Lower the trailer jack onto firm support until it carries the tongue weight.

3. **Once the trailer is supported and chocked, release the turnbuckle if fitted.** Disengage the mount from the receiver, disconnect the trailer's 7-way plug and move the dolly clear.

4. **Recharge after use.** Store the dolly dry, keep the tires and caster clear of debris and check fasteners, retainers and battery connections regularly. Follow the charger manual for storage charging.

If something feels wrong

No power. Check the main connection, battery charge and power switch. Power but no movement. Release the throttle before startup and check the direction selector. Keep the motor brake engaged until TRAX confirms the appropriate diagnostic procedure.

Weak movement or a tripped breaker. Secure the trailer. Check for dragging trailer brakes, obstructions, load, traction and battery charge. Never bypass the breaker or reset it repeatedly.

For help, have the serial number, tire type, loaded trailer weight, tongue weight and a photo of the connection or route ready. Call 1-844-488-8729, extension 2, or email help@traxpowerdolly.com.

Open the TRAX troubleshooting guide