



AeroTow T1

User manual



A better way to tug.
Plane and Simple.

Specs

 Tires 10" x 3.00	 Pulling capacity 5,000 lbs. on level ground	 T1 Weight 117 lbs.
 Drive 445 W 0.6 hp drive 2.2 mph. max	 Controls Electric. Power on/off Forward/reverse. Speed up/down. Light on/off	 Battery & Charger 2 12V AGM batteries 3 amp 72W charger

Precautions

- The operator is responsible for safe tug operation and for any aircraft or hangar damage resulting from operational errors.
- Familiarize yourself with the tug's throttle and speed response before attaching an aircraft. The tug does not stop immediately; this is intentional to help protect the aircraft.
- Aircraft should never be moved on any type of uneven, sloping, or hilly terrain.
- Store your tug in a dry location when not in use.
- Always turn the tug off while not in use, however the tug will automatically turn off after 25 minutes. Toggle the power switch to turn on.
- Leave your tug plugged in while not in use. The smart charge feature will prevent damage to the battery.
- Extreme cold can negatively impact the batteries, but climate control is not necessary in most circumstances.
- Recommended tire pressure is approximately 29 PSI. Always reference the tire sidewall for the exact pressure.
- Always follow all warnings and labeling on the T1.

Charging Information

To maximize range and battery life, keep the battery charged during periods of non-use and ensure it is fully charged before operation. The charger includes built-in overcharge protection and is preprogrammed to optimize charging for the batteries.



WARNING

Frequent deep discharges may permanently damage the battery. Charge often.

The enclosure displays a battery gauge with 5 bars to show the current charge levels.



<10% remaining battery



50% remaining battery



+90% remaining battery

At the start of the charge cycle, the bars on the battery gauge will blink for 45 seconds and then stay lit. The bars will light up incrementally until all 5 are lit, indicating the batteries are fully charged. All 5 bars will blink at the end of the charge cycle.

Setting Up the T1

Fork Assembly

The T1 has three mounting positions for the fork assembly (Figure 1).

Suggested Fork Heights (Figure 2)

1. Top level if connection is above the front wheel.
2. Middle level if connection is on the front axle.
3. Bottom level if connection is on taildragger rear axle.



Figure 1

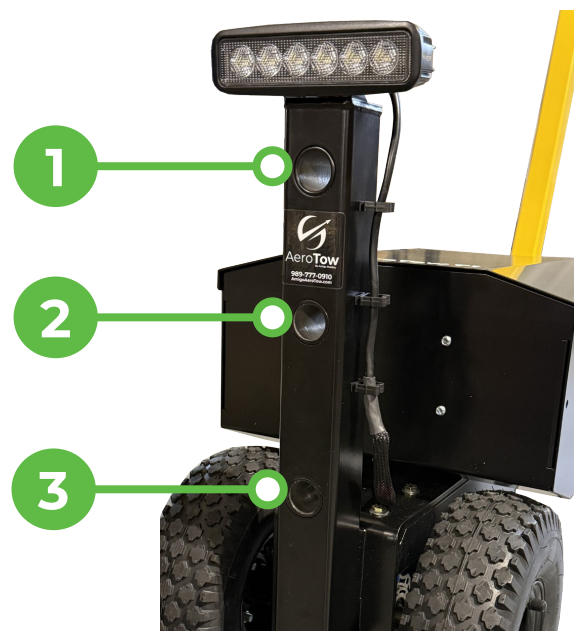
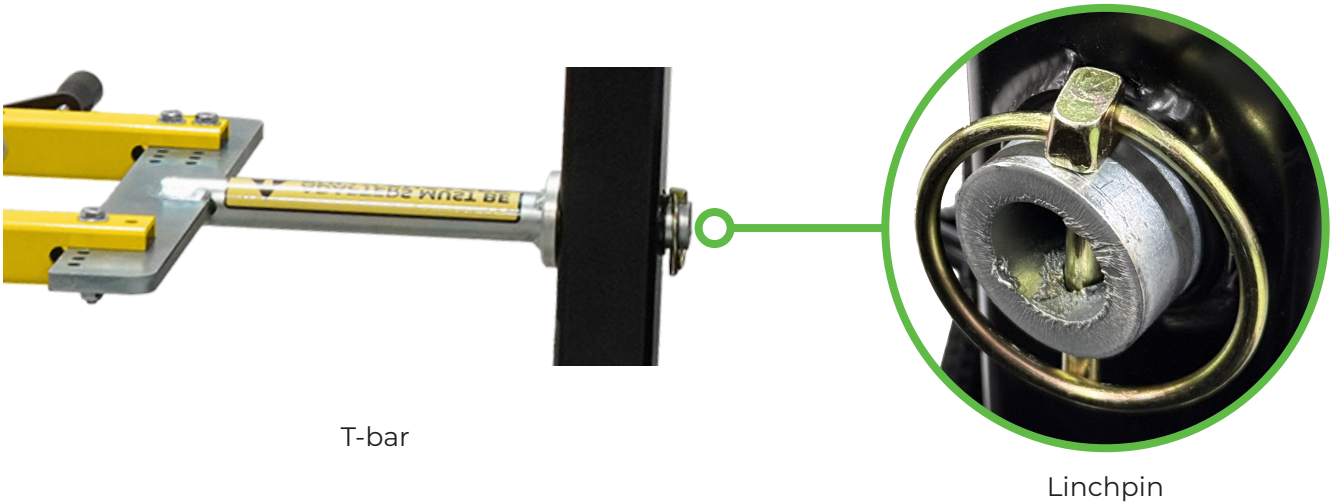


Figure 2

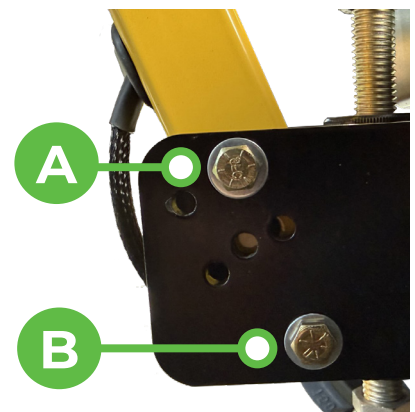
Installing the Fork Assembly

1. Insert the end of the T-bar into the desired adjustment hole.
2. Insert the linchpin through the hole at the end of the T-bar.
3. Snap the linchpin ring over the T-bar to secure the pin.



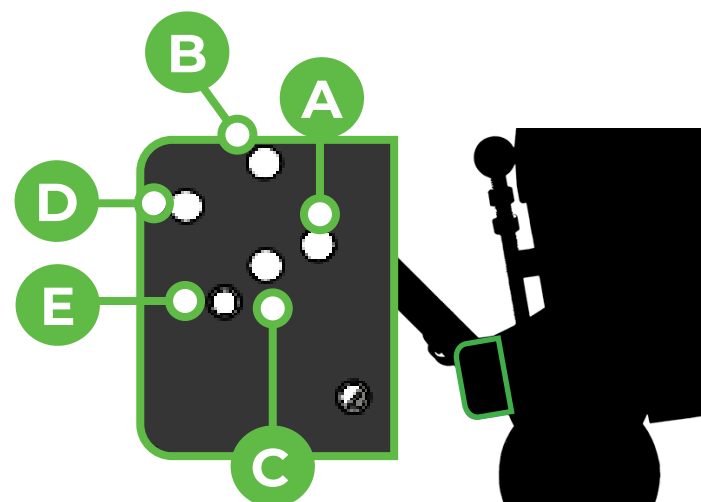
Adjusting the Handle Height

1. Loosen the nut on bolt B with a 7/16" wrench.
 2. Using bolt A from the bag provided, insert it through the selected adjustment holes in the handle and the aligned hole in the frame.
- Note:** There are five positions to choose from; see below.
3. Securely tighten bolts A and B.



A. Height/angle adjustment bolt
B. Frame attachment bolt

We suggest using the image and chart below as a starting point. Each aircraft and individual is different and may require adjustments for optimal performance.



Level	Your Height
A	6'4" and up
B	6'0"-6'3"
C	5'7"-5'11"
D	5'1"-5'6"
E	5'0" and below

Choose a comfortable height adjustment for pulling your aircraft, not for maneuvering the T1 without an aircraft attached.

Note: Handle height is measured from the ground with the fork parallel to the ground (Figure 3).

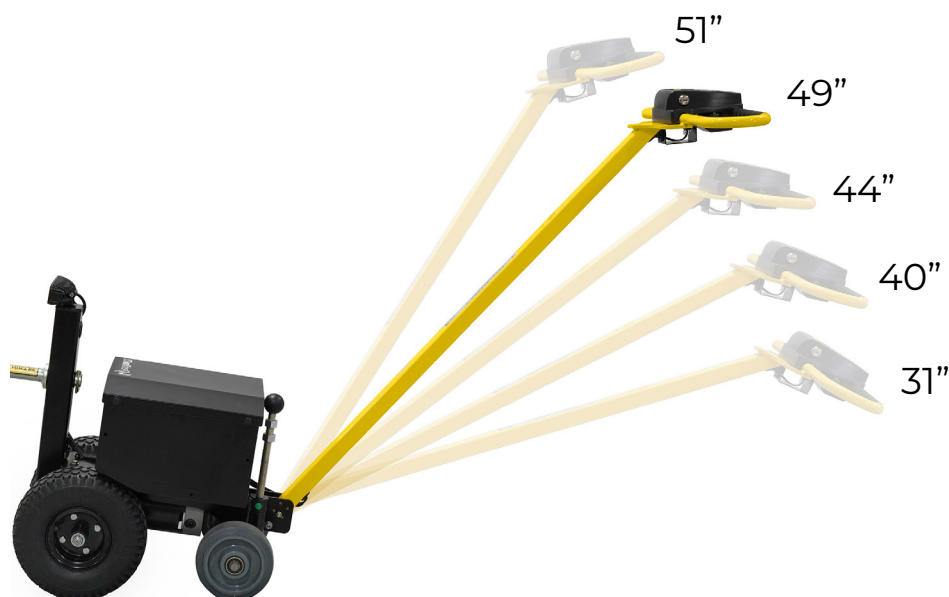


Figure 3

Removing the Handle

1. Remove the top cover on the metal box.
2. Unclip the MPC cable from the wire clip in the box, then unplug the wire connector (A) from the blue housing (B) (Figure 4).
3. Pull the MPC cable out from the bottom of the box.
4. Remove the two bolts from the handle and remove the handle from the frame.

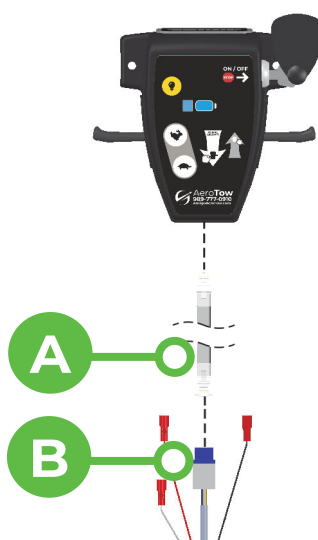


Figure 4

See Page 9 for wiring diagram



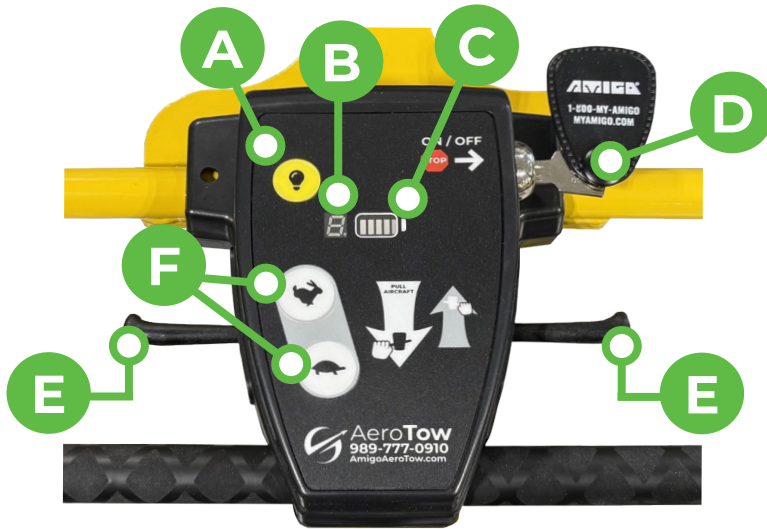
Figure 5



CAUTION

Route the MPC cable through the hole in the handle, then feed it through the bottom hole at the rear of the frame to prevent pinching (Figure 5).

Handle Controls



A. Light on/off

B. Speed/Troubleshooting indicator

Note: The speed indicator will display a solid number from 1 through 4. This is the speed level the T1 is set to. Speed **does not** indicate miles per hour. If the T1 requires service, **the number on the display will flash continuously**. See page 8 for diagnostic information.

C. Battery gauge

D. T1 key on/off

E. Throttle levers

F. Faster (rabbit)/Slower (turtle)

Using the Kickstand

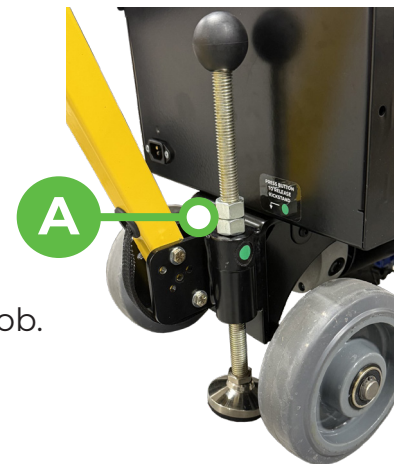
The kickstand helps keep the fork in line with the attachment points on the aircraft.

Lowering the Kickstand

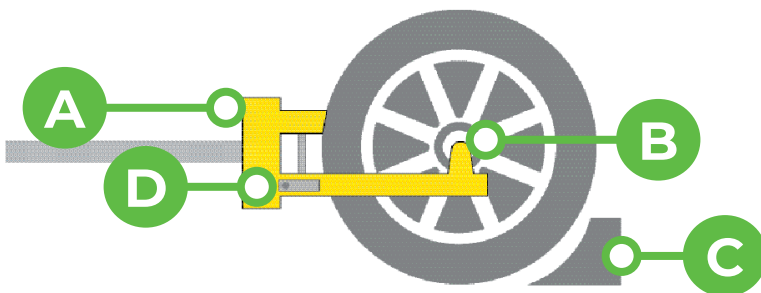
1. Apply upward pressure on the base of the yellow handle.
2. Press the green button and let the stand drop to the ground.
3. Adjust the two nuts (A) to keep it at the desired height.

Raising the Kickstand

1. Apply upward pressure on the base of the yellow handle.
2. Press and hold the green button and pull up on the black knob.
3. Release the button to lock it in place.



Connecting the Aircraft



A. Fork prongs

B. Tow pin adapters

C. Chocks

D. Locking bar

1. Unlock the locking bar (D) using the lever on the right fork prong. Open the fork prongs (A) fully.
2. Use the forward button to approach the wheel at a slight angle and position the prongs on either side.
3. Close the prongs and insert the tow pin adapters (B) into the wheel's tow connectors.
4. Tighten the locking bar to secure the aircraft.

Moving the Aircraft

1. Check the surrounding area and remove any obstacles or obstructions before moving your aircraft. **Then remove the chocks.**
2. To move forward, pull the right throttle lever toward you. To reverse, pull the left throttle lever toward you. Release the throttle lever to gradually roll to a stop. The T1 has four speed levels. Press the rabbit or turtle button twice quickly to change one level. Repeat after a short pause to continue changing speeds.
3. To make a gradual turn, tilt the T1 so one tire is slightly off the ground. For sharper turns, lift the T1 by the handle so the wheels are off the ground and place it down in the direction you wish to go.

Disconnecting the Aircraft

1. **Chock your aircraft.**
2. Loosen the locking bar.
3. Move your tug using the reverse switch located on the front of the handle control box.



CAUTION

Always chock the aircraft wheels when parked, not in use, or when attaching your tug.

How-To Video

Scan the QR code or visit amigoaerotow.com/owners/ to watch a how-to video.



Diagnostic Codes

If the tug requires service, the speed indicator may **flash** one of the following numbers. Use this guide to help diagnose the issue. For further support, contact the Amigo customer service department at 800-248-9131.

Note: The first solution listed for each diagnostic code has been shown to fix the problem 80% of the time. Attempt solutions in the order listed.



1

Problem:
Brake circuit is shorted.

Solution:

- (1) Check all connections running from the brake to the controller.
- (2) Disconnect the brake wires from the controller. Restart the Amigo. If the code changes to a 2, replace the brake.
- (3) Replace the controller.

2

Problem:
Brake circuit is open.

Solution:

- (1) Check all connections running from the brake to the controller.
- (2) Replace the brake.
- (3) Replace the controller.

3

Problem:
Motor circuit is shorted.

Solution:

- (1) Check all connections running from the motor to the controller.
- (2) Disconnect the motor wires from the controller. Restart the Amigo. If the code changes to a 4, replace the motor.
- (3) Replace the motor controller.

4

Problem:
Motor circuit is open.

Solution:

- (1) Check all connections running from the motor to the controller.
- (2) Replace the motor.
- (3) Replace the controller.

5

Problem:
Throttle circuit out of range.

Solution:

- (1) Check the handle cable, the receptacle on the controller and the throttle enclosure are in good condition.
- (2) Check to make sure the throttle levers move freely and returns to neutral position.
- (3) Replace the throttle device.

6

Problem:
Motor controller over temperature

Solution:

- (1) Turn the Amigo off and sit idle for 15 minutes. Restart and drive for 5 minutes to see if the code disappears.
- (2) Replace the brake and motor if causing excessive amp draw.
- (3) Replace the controller.

7

Problem:
Battery charger did not change to float mode during battery charging. **Note:** This code will only appear while the tug is plugged in.

Solution:

- (1) Replace the DC Charge Cable and check by allowing the charger to run through a full charge cycle.
- (2) Replace the battery charger and check by allowing the charger to run through a full charge cycle.
- (3) Replace the controller and check by allowing the charger to run through a full charge cycle.

You must allow the battery charger to run through a full charge cycle to make sure the problem has been corrected.

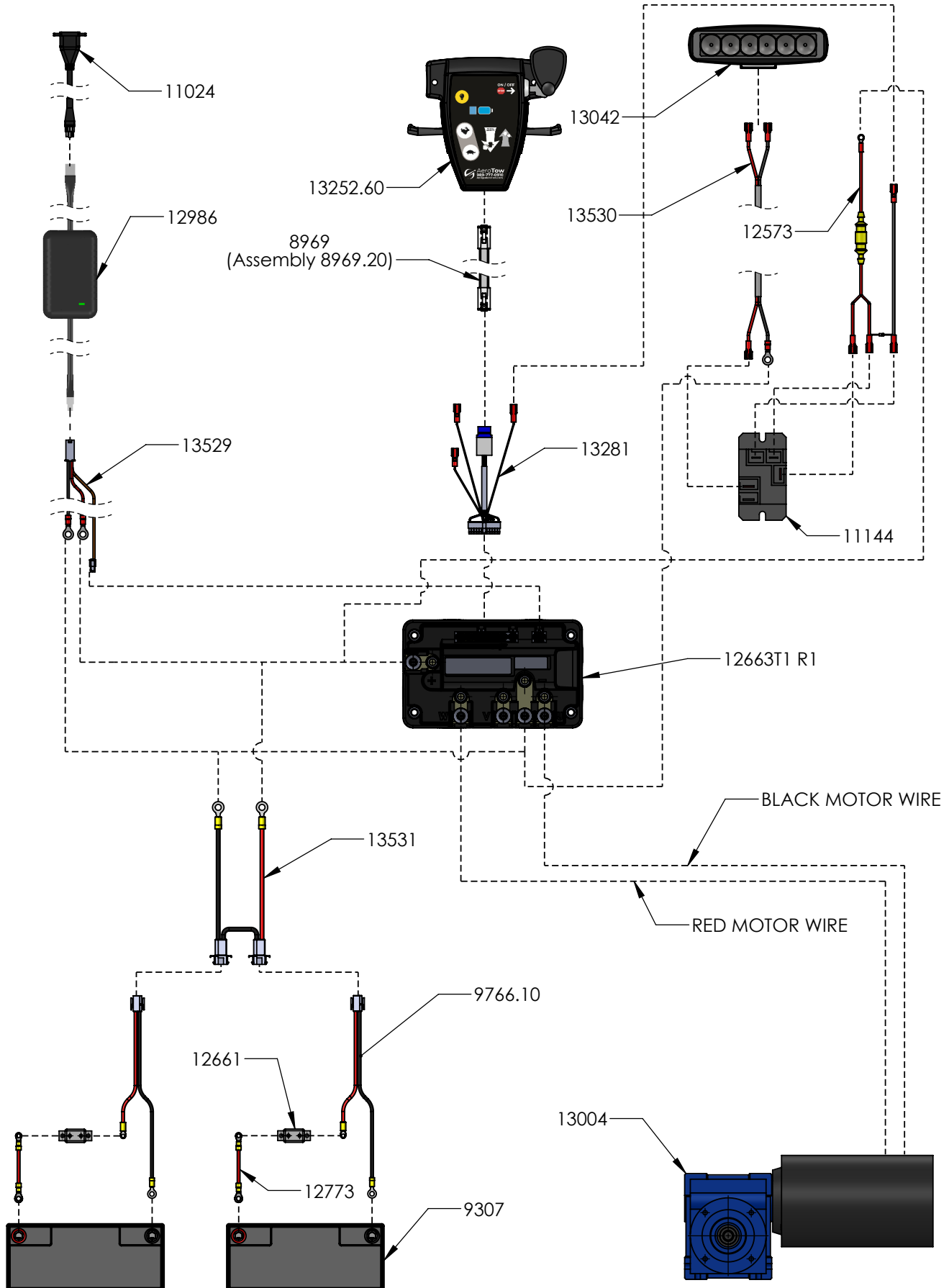
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Problem:
Motor controller fault condition.

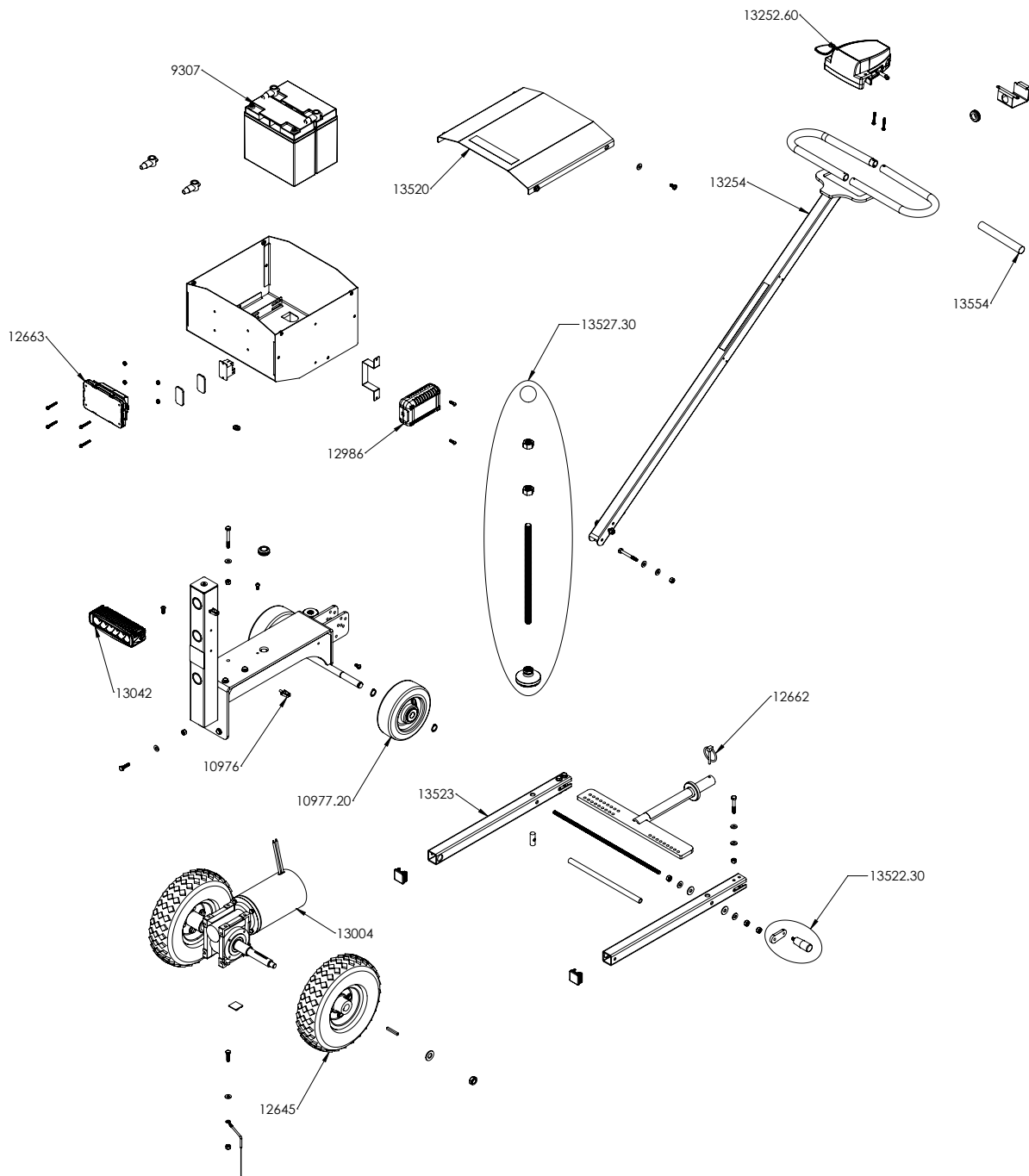
Solution:

- (1) Turn the Amigo off and sit idle for 1 minute. With a voltage meter connected to the batteries, restart the Amigo and measure the battery voltage, if it drops more than 1-volt then replace the batteries.
- (2) Replace the controller.

Wiring Diagram



Exploded View



Parts List

Part #	Description	QTY.	Part #	Description	QTY.
9307	Battery 12V 18Ah 216 WH Deep Cycle	2	13042	Light LED 6" Flood	1
10976	Clip wire guide	2	13252.60	Enclosure Hi/Lo 1-4 key AeroTow	1
10977.20	Wheel 6" RER Solid Flat	2	13254	Handle T2	1
12662	PIN .187 x 1.25 Linch	1	13520	Powerbase top AeroTow T1	1
12663	Controller CSP190	1	13523	Bracket arm AeroTow T1	2
19986	Charger 24V 3A 72W – SRD	1	13554	Grip Handle	2
13004	Drive 24V T1	2	12645	Wheel 3.00-4 Keyed AeroTow	2

Warranty Coverage

General Warranty Provisions

Amigo Mobility International, Inc. (AMI) disclaims any responsibility for personal injury or property damage resulting from the improper or unsafe use of its products. AMI warrants its products to the original purchaser and commences on the date of shipment. The warranties do not cover the failure of any part or accessory due to:

- Shipping damage.
- Abuse, misuse, accidental damage, or acts of nature.
- Exceeding the specified weight capacity of the model.
- Modifying the product, or installing accessories not authorized by AMI.

Warranty Coverage

AMI will repair or replace a part that is defective in material or workmanship under normal use. AMI may use factory refurbished parts rather than new parts for some warranty repairs. Warranty parts will be shipped via ground service in the United States free of charge. Expediated shipping will be charged to the customer. Warranty replacement parts are covered for the remainder of the original AMI unit warranty.

- Main electronic components — drive, controller, enclosure, charger — and frame have a two-year warranty.
- Other components — wheels, headlight, latches — have a one-year warranty.
- Batteries supplied by AMI have a six-month warranty.
- Damage caused by lack of charging, battery moisture, spillage, or leakage is exclusive of warranty. Batteries must be charged consistently; you can leave them plugged into the charger provided when not in use.
- Onsite labor, if required, is not covered under warranty.
- AMI provides an ARS tag with warranty parts that are required to be returned to the factory (continental United States only).
- If inspection determines that a returned part is inoperable due to a non-warranty nature, credit for replacement parts ordered will not be issued.

This warranty supersedes and is in lieu of all other warranties expressed or implied, and no person, agent, or dealer is authorized to give any warranties on behalf of AMI, nor to assume for AMI any other liability concerning any of its products unless made in writing and signed by an official of AMI.

This warranty gives you specific rights, with the possibility of other rights, which vary depending upon your locality.

Customer Satisfaction

Your complete satisfaction is our main goal. Please contact us at 800-248-9131 or service@myamigo.com if you have questions regarding service.

To register your tug, please scan the QR code or visit amigoaerotow.com/owners/warranty.





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