

Action Trackchair®

OWNER'S MANUAL



ATTENTION:

Please read the content of your manual before operating your Action Trackchair®

MODEL _____

STOCK # _____

Table of Contents

Safety Instructions.....	2
Trackchair® Helpful Hints	3
Trackchair® Comfort Adjustments	4
Batteries and Charging.....	5
Repairs and Maintenance.....	7
Cleaning your Action Trackchair®	10
Warranty	11
Joystick Diagnostic Reference	12
Transporting your Action Trackchair®	14
Rocker Switch Override Instructions	15
Law, Regulation and Policy for Wheelchair/Mobility Device use in “Federally Designated Wilderness”	16
Notes.....	17

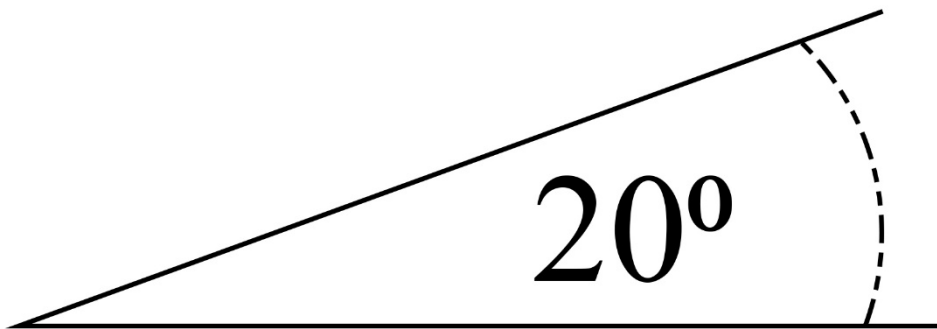


1105 Lake Road
Marshall, MN 56258
(507) 532-5940

Safety Instructions

Please review and adhere to the following safe use guidelines.

- Do **NOT** ride on the Action Trackchair® during loading or unloading from vehicle or trailer.
- Only one person should be on the Action Trackchair® at any time.
- A seatbelt is required when operating the Action Trackchair®.
- Keep hands and fingers away from the rotating parts of the tracks and pinch points.
- Make sure controls are turned **OFF** when getting in or out of the seat.
- Make sure controls are turned **OFF** before placing a cover over the Action Trackchair®.
- When approaching inclines or declines in any surface always use caution, switch to a slower speed.
- The Action Trackchair® will climb inclines enough to tip over in any direction.
- Do **NOT** attempt to climb stairs in the Action Trackchair®.
- When climbing over obstacles, approach at an angle, NOT perpendicular.
- Do not drive the Action Trackstander® in the upright position on uneven or rough terrain.
- Do **NOT** navigate Action Trackchair® on more than a 20-degree slope



Failure to know the limits and to adhere to the above items could cause personal injury or equipment damage.

Trackchair® Helpful Hints

- When you are transferring into your Trackchair®, make sure the controls are in the **OFF** position before sitting in the Trackchair®.
- When operating your Trackchair®, make sure you are securely fastened in with either the lap belt or 4-point harness.
- Your Trackchair® can be programmed by your dealer to have the option of locking the joystick.
- When locking the control, follow the process below:
 - Turn control OFF, hold ON/OFF button until the control has cycled both ON and then OFF. Control is now set in the locked mode.
- If your Trackchair® has a locking control, it can be unlocked in the following way:
 - Turn the control on, hold joystick forward until you hear a beep or three seconds and then pull the joystick back until you hear a beep or three seconds. It is now unlocked and ready for operation.
- The Trackchair® control has five speeds, one – five can be changed with the up and down arrows.
- The battery indicator is on the main screen of the controls. Battery charge will last up to approximately four hours, depending on battery condition and type of use the Trackchair® is subject to. Action Trackchair® has a built-in battery charger that plugs into a 120-volt outlet for North America, or a universal charger if sold overseas for AC voltage from 90 volts to 240 volts.
- Optional lighting is available and is controlled on the joystick control panel.
- If it is necessary to pull the Trackchair®, disengage the brakes on the motors with the levers on the back of the motors. Push levers to the outside on both motors. Do not pull the Trackchair® over 5 MPH.
- Action Manufacturing does not recommend operating your Trackchair® in salt water. Although the Trackchair® is powder coated to the highest quality with very durable powder coat, salt water is very corrosive and can cause problems with powder coat and metal. If your Trackchair® has been exposed to salt water, rinse the Trackchair® completely with fresh water and dry off.

Trackchair® Comfort Adjustments

There are a few adjustments that are needed when first setting up your chair. The footrest can be moved up or down to fit the rider's needs. The chair itself can be leveled to the desired comfort of the rider. The armrest can flip back for easier transferring into the chair. Electronic controls can be adjusted by a servicing dealer regarding speed, acceleration, deceleration, braking, etc.

- ST/TR/STS/NT will tilt forward and backward by depressing the rocker switch on the grab handle.



- ST/STS arms will move up and down by pulling the pin on the rear of arm and lifting. TR arms will move up and down simultaneously. NT/NR arms move up and down independently.
- NR knee pads and arm rests can be adjusted up and down, in or out, and forward or backward.
- TR knee pads can be adjusted up and down, forward, or backward.



Batteries and Charging (Dual Pro 120V AC only)

The Action Trackchair® will not drive while the chair is plugged into the wall outlet and charging the batteries.

- Battery charge will last up to four hours, depending on battery condition, temperatures, and type of use the Trackchair® is subject to (terrain and weight of rider). The Trackchair® has a built-in battery charger that plugs into the outlet. (Power factor corrected charger for overseas)

INDEPENDENT CHARGING BANK INDICATIONS (Dual Pro 20 AMP 120V only)

- When your battery charging system is activated, each bank provides charging information utilizing five red Light Emitting Diode (LED) indicators and one green Light Emitting Diode (LED) indicator.
- The five red LEDs enable you to track the progress of the charge cycle on each battery as the voltage rises. See chart below:

Standard Operation of Charge Status LED Indicators	
	1 RED LED = 10% Charged
	2 RED LEDs = 30% Charged
	3 RED LEDs = 50% Charged
	4 RED LEDs = 70% Charged
	5 RED LEDs = 90% Charged
	1 FLASHING GREEN LED = 90-100% Finishing Stage
	1 GREEN LED = 100% Charged + Maintenance Mode

2 to 12.78 volts = 10%
12.79 to 13.25 volts = 10%, 30%
13.26 to 13.49 volts = 10%, 30%, 50%
13.50 to 14.04 volts = 10%, 30%, 50%, 70%
14.05 to 14.52 volts = 10%, 30%, 50%, 70%, 90% Green Flashing {Finishing Stage}
14.52 to 15.49 volts

Operation of Fault Codes on the Charge Status LED Indicators		
	30% FLASHING RED LED	This is caused when the charger does not read the proper voltage on a battery. Reverse Polarity, A battery below 2 volts, and leads disconnected will all cause this indication.
	30 & 50% FLASHING RED LEDs	This happens when a 12 volt battery will not rise above 10.5 volts during the first 3 hours of charge, which would indicate that there is a problem with the battery.
	30, 50 & 90% FLASHING RED LEDs	This indication means that the battery was being charged for over 20 hours, which would mean there could be a problem with the battery.
	30 & 90% FLASHING RED LEDs	This indicates that the internal temperature of the charger reached a level that was beyond the acceptable operating temperature and the charger shut itself down for protection purposes. This will reset when the a/c power is removed.

- The batteries are fully charged when the Dual Pro charger has both green LED's on solid.
- The charger can be left on for an extended period without harming the battery.

Your system provides an equalization stage every 30 days while plugged in. If the charger is normally disconnected from A/C after completing charge, equalization can be accomplished by plugging back into A/C whenever this stage is desired. Battery manufacturers recommend that equalization is done once a month in order to further reduce sulfation on the lead plates of a battery, which helps promote longer battery life. Note: During this process the LEDs will go through their normal routine (Red counting up for % of charge) and the Green Led will blink until the unit returns to the maintenance mode and a steady Green LED. (Not applicable to a Gel Profile)

Batteries and Charging – EU Models (ProSport)

- **Operation after applying AC Power to the ProSport Charger connected to discharged batteries. (European Models Only)**

During the startup test the battery type LED will be illuminated and the red charge mode LED will flash indicating that the unit is in a self-test mode. When complete and if there are no faults, the charger's system check OK indicator will illuminate green and the ProSport's solid red charging LED will be ON indicating the charge process is initiated. Note: If there is a fault the appropriate bank LED will illuminate and the charge process may not start, depending on the location of the fault.

- **If there are no Battery Faults, the Green System Check OK LED will illuminate and the following sequences will proceed:**

- The red battery type LED (factory set for standard Flooded (lead-acid)/AGM batteries) will illuminate.
- The red charge mode LED will illuminate indicating the charger has started its multi-stage charging process.
- When the charge process is approximately 80% complete the red charge mode indicator will turn off and the amber conditioning LED will turn on indicating the conditioning mode.
- When the multi-stage charge process is completed you will observe the following: Battery type red LED goes OFF.
- The red charging LED and the amber conditioning LED will be off, and the green ready/maintain LED will illuminate indicating your batteries are fully charged.
- The only LEDs on after the multi-stage charge process is completed are the green system OK LED, blue AC power LED and the green ready/maintain LED.

- **Multi-Stage Charging Overview**

Stage 1 - System Check OK and Battery Analyzing: During this stage the ProSport red “Charge” LED will flash indicating ProSport is analyzing all battery connections in addition to checking each battery is capable of being charged. Upon completion the “System Check OK” indicator will illuminate green followed by Stage 2 Charging.

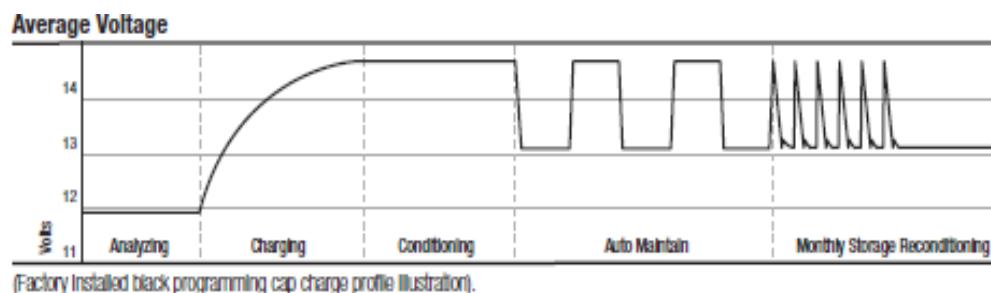
Stage 2 - Charging: During this mode, the “Charging” indicator will be red. The ProSport Series will use all its available charging amps

(as controlled by temperature) until the battery voltage is raised to 14.6VDC (Flooded lead-acid factory setting).

Stage 3 - Conditioning: During this mode, the “Conditioning” status indicator will be amber. Batteries will hold at 14.6 VDC (factory set for Flooded lead-acid batteries) to complete charging while conditioning each battery connected. Upon completion the ProSport will go into its Energy Saver Mode.

Stage 4 - Auto Maintain (Energy Saver Mode): During this mode, the blue “Power” and green “Auto Maintain” LED's will be on indicating Stage 2 charging and Stage 3 conditioning are completed. At this time ProSport will initiate its Auto Maintain (Energy Saver Mode) which will monitor and Auto Maintain batteries only when needed to maintain a full state of charge.

Stage 5 - Storage Recondition Mode: During this mode, the ProSport “Storage Recondition Mode” green indicator will illuminate with a slow fade in and out pulse. This indicates that while your batteries/boat are in storage the ProSport will automatically recondition all batteries for up to 3 hours once a month extending battery life and maximizing on the water battery power performance.



To get maximum daily use, the battery must be fully charged. This is accomplished by having the Trackchair® plugged in until the “READY LIGHT” comes on, on the battery charger.

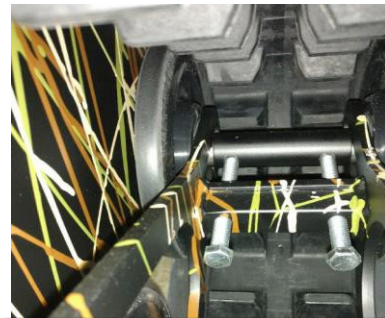
Repairs and Maintenance

Track adjustment procedure for NT/NR models

Tracks can be adjusted by loosening both bolts on the front idler wheels, inside and outside. Track tensioners can be tightened with a 9/16 wrench by turning track tensioner bolts clockwise an even amount. Adjustment is only needed if the track tension does not meet the below specification. **IT IS NOT NECESSARY TO OVER TIGHTEN THE TRACKS.** Re-tighten front idler wheels, inside and outside to 130 in./lbs.



Elevate chair with suitable lift or blocks, here you see the K&L model MC455 fat jack.



Track adjuster bolts

Front of chair

Locate track lug perpendicular to idler wheel mounting bolt towards front of chair as shown.

Press down on track with 20-25 lbs. of force and observe location of track lug. When properly tensioned the lug at the blue arrow should be about 1" from the frame with 20-25 lbs. of force. Rotate track to check measurement at 3 different locations around the track to confirm measurement.

Use suitable spring tension gauge purchased from your dealer (PN 80500)

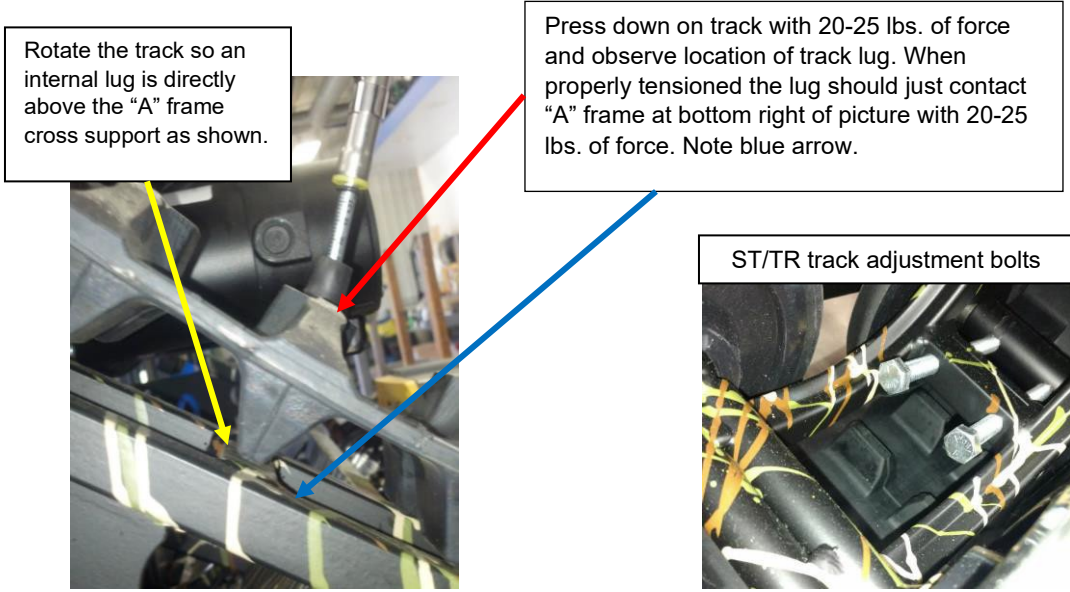
The diagram shows a person's hands adjusting the track. A yellow arrow points to the front of the chair. A blue arrow points to the track lug. A yellow arrow points to the track being pressed down. A yellow arrow points to the track being rotated. A yellow arrow points to the track being measured. A yellow arrow points to the track being adjusted. A yellow arrow points to the track being tensioned. A yellow arrow points to the track being checked. A yellow arrow points to the track being confirmed. A yellow arrow points to the track being adjusted. A yellow arrow points to the track being tensioned. A yellow arrow points to the track being checked. A yellow arrow points to the track being confirmed. A yellow arrow points to the track being adjusted. A yellow arrow points to the track being tensioned. A yellow arrow points to the track being checked. A yellow arrow points to the track being confirmed.

Repairs and Maintenance (cont.)

All bearings are sealed and need no additional greasing.

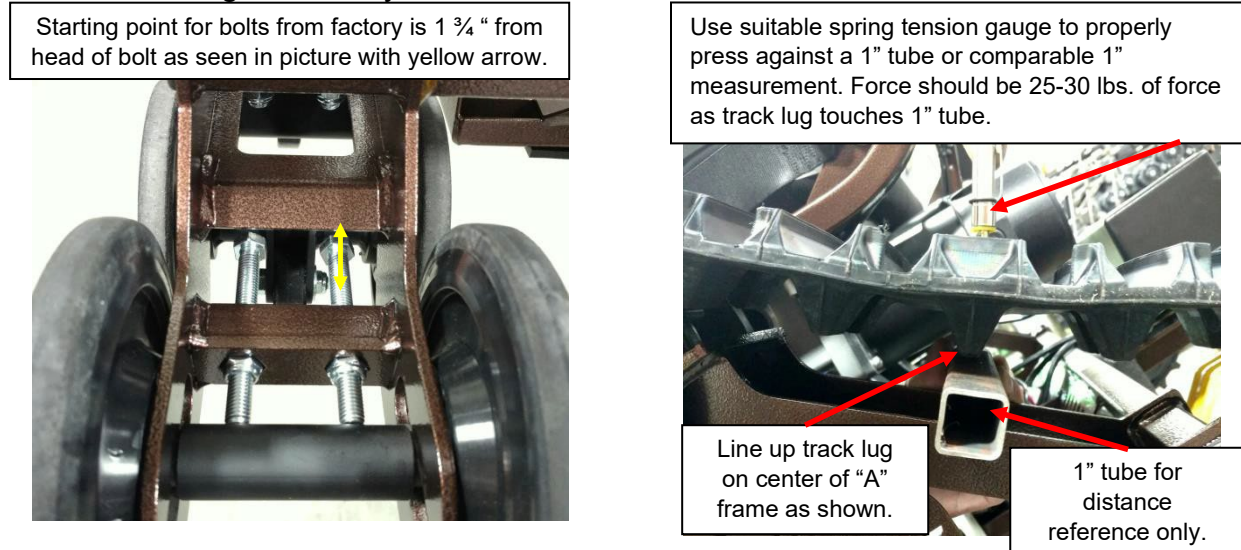
Track adjustment procedure for ST/TR models

Tracks can be adjusted by loosening both bolts on the front idler wheels, inside and outside. Track tensioners can be tightened with a 9/16 wrench by turning track tensioner bolts clockwise an even amount. Adjustment is only needed if the track tension does not meet the below specification. **IT IS NOT NECESSARY TO OVER TIGHTEN THE TRACKS.** Re-tighten front idler wheels, inside and outside to 130 in./lbs.



Track adjustment procedure for STSx/STS models

Tracks can be adjusted by loosening the bolt on the rear idler wheels. Track tensioners can be tightened with a 9/16 wrench, or swivel socket with extension by turning track tensioner bolts clockwise an even amount. Adjustment is only needed if the track tension does not meet the below spec. **IT IS NOT NECESSARY TO OVER TIGHTEN THE TRACKS.** Re-tighten front idler wheels, inside and outside to 130 in./lbs. Trackchair must be elevated when checking the tension of tracks, when lowered to the ground, they will relax a little.



Repairs and Maintenance (cont.)

The Action Trackchair® was constructed with no grease zerks, no tires, no chains, and no pulleys to minimize maintenance and requires only periodic cleaning to maximize performance. Your daily maintenance is as simple as plugging in the Action Trackchair® to a standard wall receptacle and giving it a rinse now and then. This is a very stable, dependable, durable, and user-friendly machine!

Note: Install the black cover provided over the top of the joystick assembly before washing your Trackchair®. In the event of a lost or severely damaged black cover, use a plastic bag and tape or rubber glove to protect the joystick.

Cleaning your Action Trackchair®

- The Action Trackchair® can be washed with a garden hose. It is not recommended to use a pressure washer to clean your chair.
- **ALWAYS** cover the joystick with the black cover provided or with a plastic bag from getting moisture inside. **THE JOYSTICK IS NOT WATERPROOF** and should be covered when washing, stored outside, or when transporting.
- Do not spray water directly onto the motor controller which is under the seat.
- If your Trackchair® has been exposed to salt water, rinse the chair completely with fresh water and dry off immediately.
- If your Trackchair® has been in the mud, we recommend you rinse the chair completely with fresh water and dry off immediately.

Warranty

Action Manufacturing, 1105 Lake Road, Marshall, MN 56258 gives a ONE YEAR LIMITED WARRANTY on all components of your Action Trackchair® against defects in material or workmanship.

1-Year: The following components are covered for both parts and labor against manufacture defects in materials and workmanship for the period of one year.

- Batteries
- Motor Control Box
- Joystick
- Seats
- Tilt Actuator
- Motors
- All Sprockets and Idler Wheels

3-Year: The following components are covered against manufacture defects in materials and workmanship for the period of three years.

- Dual Pro battery charger
- Tracks (1st Year – Parts and Labor / 2nd and 3rd Years – Parts Only)
- Frame Welding (1st Year – Parts and Labor / 2nd and 3rd Years – Parts Only)

This warranty covers parts and labor charges for repair or replacement of defective parts and begins on the date of delivery to the original purchaser. This warranty is not transferable to another owner.

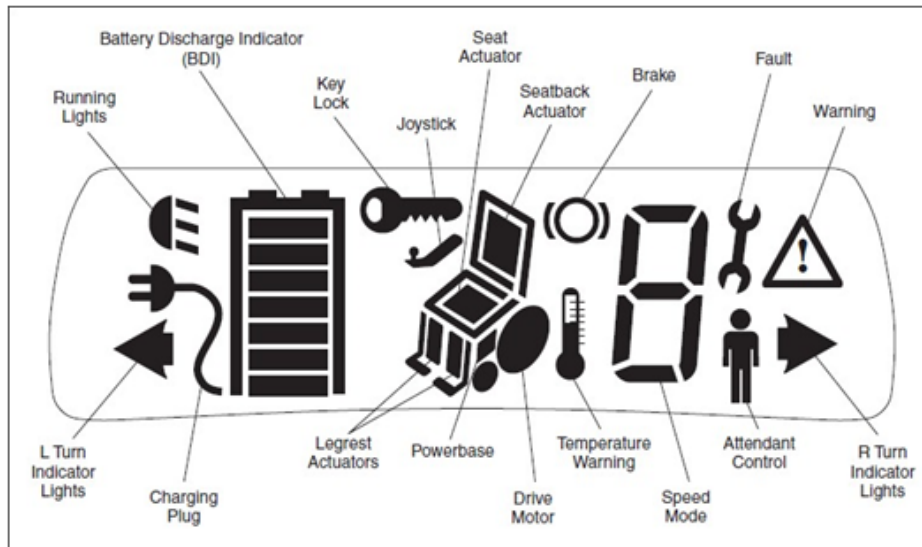
This Action Trackchair® limited warranty excludes any failures that are not caused by a defect in material or workmanship. THIS WARRANTY DOES NOT COVER CLAIMS OF DEFECTIVE DESIGN. This warranty also does not cover acts of God, accidental damage, normal wear and tear, abuse, or improper handling. This warranty also does not cover any Action Trackchair® component, or part that has been altered structurally, modified, neglected, improperly maintained, or purposes other than for which it was designed.

This warranty excludes damages or failures caused by external stress, heat, cold or contamination; abuse, accident, fire; operator error or abuse; improper component alignment, tension, adjustment or altitude compensation; snow, water, dirt or other foreign substance ingestion/contamination; improper maintenance; modified components; use of aftermarket or unapproved components, accessories, or attachments; use of unapproved software or calibration; unauthorized repairs; or repairs made after the warranty period expires or by an unauthorized repair center.

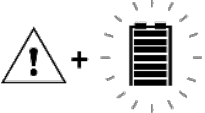
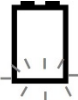


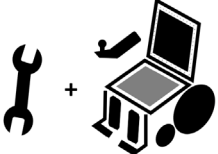

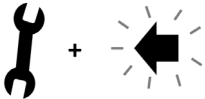
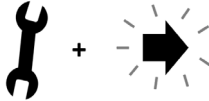




This warranty provides no coverage for personal loss or expense, including mileage, transportation costs, hotels, meals, shipping or handling fees, product pick-up or delivery, replacement rentals, loss of product use, loss of profits, or loss of vacation or personal time.

If your Action Trackchair® requires warranty service, please contact the Action Trackchair® Dealer in your area.

Joystick Diagnostic Reference



Hand Control Display	Fault / Warning	Remedy
	Power Section Fault, Main Relay Fault, or Pre-charge Fault, or HW Failsafe Fault.	<ol style="list-style-type: none"> 1. Cycle Power. 2. Replace powerbase.
	Joystick Fault.	<ol style="list-style-type: none"> 1. Return joystick to neutral and cycle power. 2. Recalibrate joystick. 3. Check joystick cable and cable connections. 4. Replace joystick. 5. Replace hand control.
	Communications Fault.	<ol style="list-style-type: none"> 1. Check cable and cable connections. 2. Replace cable.
	Open Motor Fault.	<ol style="list-style-type: none"> 1. Check wiring. 2. Replace motor. 3. Replace powerbase.
	Controller Over/Under Temperature Warning.	<ol style="list-style-type: none"> 1. If too hot, wait for controller to cool. 2. If too cold, drive Trackchair® in limited current mode until controller warms up.
	Driver Thermal Warning.	<ol style="list-style-type: none"> 1. Wait for motor to cool.
	Brake Fault.	<ol style="list-style-type: none"> 1. Check wiring. 2. Replace motor. 3. Replace powerbase.
	Undervoltage Warning.	<ol style="list-style-type: none"> 1. Recharge battery. 2. Replace old battery. 3. Check charger port on hand control; replace if damaged. 4. If this is happening frequently, replace charger.

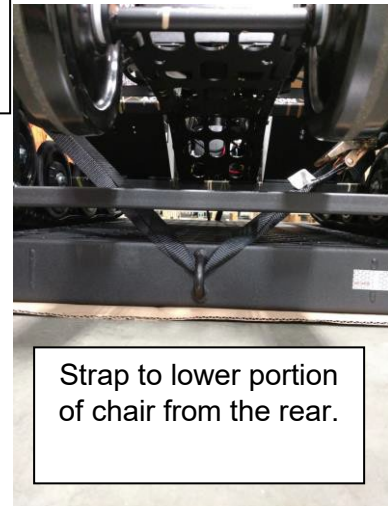
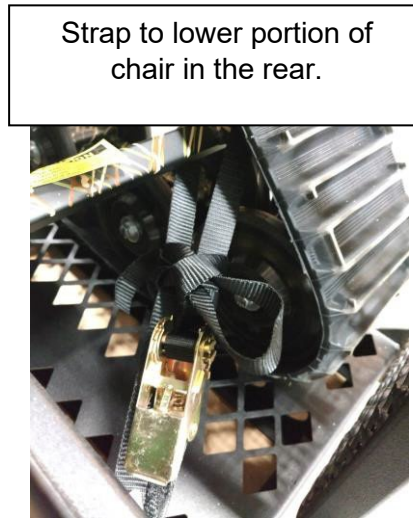
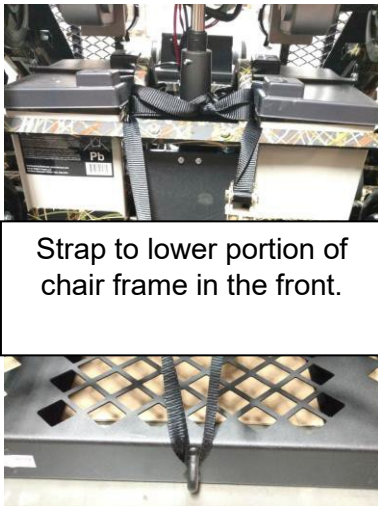
	Overvoltage Warning.	<ol style="list-style-type: none"> 1. Wait for voltage to come down. 2. Replace old battery. 3. Check charger; replace if faulty.
	Low Battery.	<ol style="list-style-type: none"> 1. Recharge Battery.
	Battery Charging; Inhibit	<ol style="list-style-type: none"> 1. Unplug charger when charging is complete.
	Seatback Actuator Driver Fault.	<ol style="list-style-type: none"> 1. Select drive or a different actuator; fault may clear. 2. Check wiring. 3. Check that the seatback is not jammed. 4. Check actuator; replace if faulty. 5. Replace powerbase.
	Seat Actuator Driver Fault.	<ol style="list-style-type: none"> 1. Select drive or a different actuator; fault may clear. 2. Check wiring. 3. Check that the seatback is not jammed. 4. Check actuator; replace if faulty. 5. Replace powerbase.
	Leg Actuator Fault.	<ol style="list-style-type: none"> 1. Select drive or a different actuator; fault may clear. 2. Check wiring. 3. Check that the seatback is not jammed. 4. Check actuator; replace if faulty. 5. Replace powerbase.
	Left Indicator Fault.	<ol style="list-style-type: none"> 1. Press Left Indicator button. 2. Replace bulb. 3. If fault continues, check wiring.
	Right Indicator Fault.	<ol style="list-style-type: none"> 1. Press Right Indicator button. 2. Replace bulb. 3. If fault continues, check wiring.
	Hazard Lights Fault.	<ol style="list-style-type: none"> 1. Press Right or Left Indicator button. 2. Replace bulb. 3. If fault continues, check wiring.
	Running Lights Fault.	<ol style="list-style-type: none"> 1. Press Running Lights button. 2. Replace bulb. 3. If fault continues, check wiring.
	Locked Mode. *	<ol style="list-style-type: none"> 1. Unlock the system.
	Chair Under Attendant Control*	<ol style="list-style-type: none"> 1. Turn off attendant control (1742).

*These icons indicate a problem only if they appear when they shouldn't.

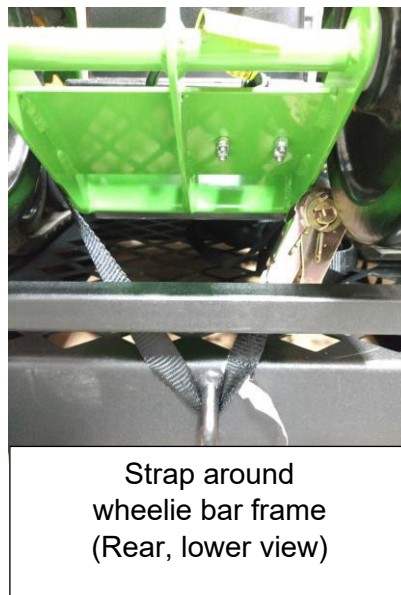
Transporting your Action Trackchair®

Proper strapping options for the Action Trackchair® to the carrier
*****Class III receiver hitch required for carrier. Check automobile manufacturers recommendation for hitch capacity.**

STS/ST/TR Model Photos:



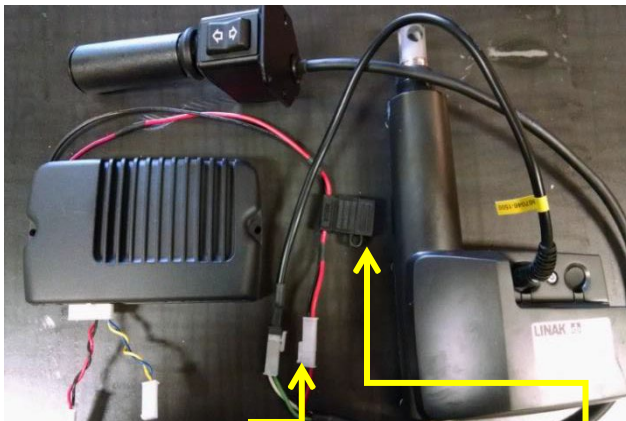
NT/NR Model Photos:



Rocker Switch Override Instructions

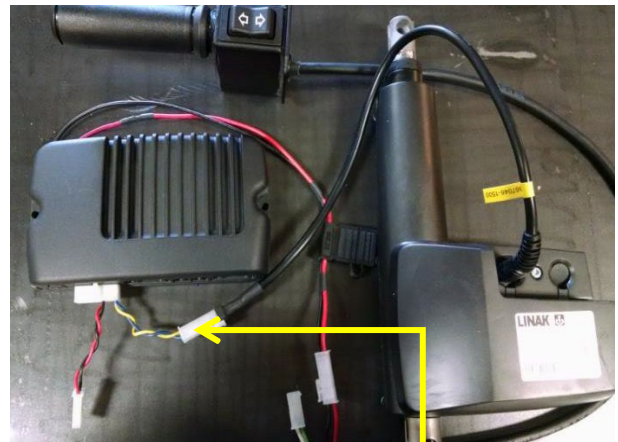
If the actuator is not moving up or down, follow the steps below:

- First check the fuse in the black fuse holder located at the black and red 16 gauge wire harness which comes off the battery. Fuse type is an ATC 20 amp.
- If you suspect the actuator has failed and you have a “Tilt on the Fly” rocker switch (not tilt through the joystick) you can simply bypass the rocker switch as follows:
 - Locate wire coming out of the side of the actuator, unplug from the current plug it is attached to. Plug lead from actuator into blue/yellow lead from the 14-pin connector which is located under the seat.
 - Now turn joystick on and press the “M” button, move the joystick forward or reverse and the actuator should move up or down.
 - If you find the actuator does work, then the problem would be in the “Tilt on the Fly” rocker switch or wiring to it.



Tilt on the fly wiring harness

Tilt fuse holder



Tilt with joystick connection



Law, Regulation and Policy for Wheelchair/Mobility Device Use in “Federally Designated Wilderness”

(ADA Title V Section 508c, as amended in 2008)

(1) IN GENERAL – Congress reaffirms that nothing in the Wilderness Act prohibits wheelchair use in a wilderness area by an individual whose disability requires its use. The Wilderness Act requires no agency to provide any form of special treatment or accommodation or to construct any facilities or modify any conditions of lands within a wilderness area to facilitate such use.

(2) Definition – for the purposes of paragraph (1), the term wheelchair means a device designed solely for use by a mobility impaired person for locomotion, that is suitable for use in an indoor pedestrian area.” (per American with Disabilities Act, Title V Section 508 (c))

Application: “Designed solely for use by a mobility-impaired person” means that the original design and manufacture of the device was only for the purpose of mobility by a person who has a limitation on their ability to walk. “Suitable for indoor pedestrian use” means the device would be allowed to be used inside a mall, etc.

A wheelchair or mobility device, even one that is a battery powered, that meets both parts of this definition is allowed anywhere foot travel is allowed including in federally designated wilderness areas.

The following CFR and FSM apply in ALL areas of the National Forest System

36 Code of Federal Regulation (CFR) 212.1

“Motor Vehicle. Any vehicle which is self-propelled, other than:

- (1) a vehicle operated on rails; and
- (2) any wheelchair or mobility device, including one that is battery-powered, that is designed solely for use by a mobility-impaired person for locomotion, and that is suitable for use in an indoor pedestrian area.”

Forest Service Manual 2353.05“Wheelchair or Mobility Device. A device, including one that is battery- powered, that is designed solely for use by a mobility-impaired person for locomotion, and that is suitable for use in an indoor pedestrian area. A person whose disability requires use of a wheelchair or mobility device may use a wheelchair or mobility device that meets this definition anywhere foot travel is allowed.”

Application: “Designed solely for use by a mobility-impaired person” means that the original design and manufacture of the device was only for the purpose of mobility by a person who has a limitation on their ability to walk. “Suitable for indoor pedestrian use” means the device would be allowed to be used inside a mall, etc. A wheelchair or mobility device, even one that is a battery powered, that meets both parts of this definition is allowed anywhere foot travel is allowed.

NOTES