

Action Trackchair Models

ST



TR



STS



NT



NR



Action Manufacturing Inc.

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Triplicate Registration Form

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Welcome to Action Manufacturing Inc., the maker of
the Action Trackchair.

We at Action Manufacturing Inc.
want to make your experience the best it can be.

Enclosed in this owner's manual you will find information to use and maintain your
Action Trackchair.

With any questions please contact
your distributor/dealer, or us at:

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1105 Lake Road
PO Box 620
Marshall, MN 56258
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Introduction

Safety Guidelines

- Make sure controls are turned **OFF** before sitting in the Trackchair and before getting out of the seat.
- Make sure the controls are turned **OFF** before placing a cover over the Trackchair.
- Only one person should be on the Trackchair at any time.
- Always wear your seatbelt.
- Do not navigate the Trackchair on more than a 20-degree slope.
- Trackchair will climb inclines enough to tip over in any direction.
- When climbing over small logs or curbs approach incline at an angle, NOT directly at 90°.
- Always have a backup plan, “What If....?”
- **DO NOT** ride the Trackchair during loading or unloading from vehicle or carrier.
- **DO NOT** attempt to climb stairways.
- Action Manufacturing Inc. does not recommend driving the Trackstander in the upright position other than on flat and stable terrain.
- Failure to know the limits can cause personal injury or equipment damage.

Operating Your Action Trackchair

- When you are ready to drive the 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 distributor/dealer to have the option of locking the joystick or not, ask them about the availability for this option.
- If your Trackchair has a locking control, **it can be unlocked in this way**. Turn control on, hold joystick forward until you hear a beep or three seconds, then joystick back until you hear a beep or three seconds. It is now unlocked and ready for operation.
- When **locking the control**, (if this option is selected by the distributor/dealer/customer) it is done in this way. After the control has been turned off, hold the on/off button until the control has cycled both on and then off. Control is now set in the locked mode.
- The Action Trackchair control has five speeds, one-five and can be changed with the up and down arrows.
- Battery indicator is on the main screen on controls. Battery charge will last up to approximately six 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 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 your Trackchair has no separate Tilt–On-The-Fly rocker switch, tilting of the chair is possible by pushing the “M” button on controls, and then moving joystick forward or backward to tilt chair. Cancel by pushing “M” again or moving joystick to the left.
- If for some reason it is necessary to pull the Trackchair. Disengage the brakes on the motors with the levers on back of motors. Push levers to the outsides on both motors. Do not pull Trackchair more than 5 MPH
- Action Manufacturing Inc. does not recommend operating your Trackchair in the salt water, although our Trackchairs are powder coated to the highest quality with very durable powder coat, salt water is very corrosive and causes 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.

Comfort Adjustments

There are few adjustments that are necessary. 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 at a servicing distributor/dealer as far as speed, acceleration, deceleration, braking, etc.

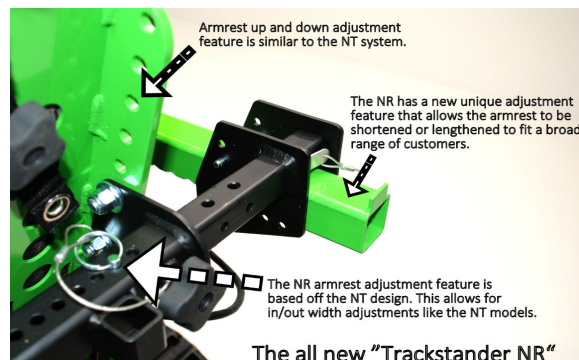
- ST/TR/STS/NT will tilt forward and backward by depressing the rocker switch on the grab handle.



- ST/TR/NT/NR arms will move up and down by pulling pin on rear of arm and lifting.



- NR knee pads and arm rests can be adjusted up and down, in or out, forward or backward.
- TR knee pads can be adjusted up and down, forward and backward.



Batteries and Charging (Dual Pro 120V AC only)

- **The Action Trackchair will not drive while the Trackchair is plugged into the wall outlet and charging the batteries.**
- Battery charge will last up to six 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 the following chart)

Dual Pro		Standard Operation of Charge Status LED Indicators	
		1 RED LED = 10% Charged	2 to 12.78 volts = 10%
		2 RED LEDs = 30% Charged	12.79 to 13.25 volts = 10%, 30%
		3 RED LEDs = 50% Charged	13.26 to 13.49 volts = 10%, 30%, 50%
		4 RED LEDs = 70% Charged	13.50 to 14.04 volts = 10%, 30%, 50%, 70%
		5 RED LEDs = 90% Charged	14.05 to 14.52 volts = 10%, 30%, 50%, 70%, 90% Green Flashing (Finishing Stage) 14.52 to 15.49 volts
		1 GREEN LED FLASHING = FINISH STAGE	
		1 SOLID GREEN LED = 100% Charged + Maint. Mode	

Operation of Fault Codes on the Charge Status LED Indicators	
	30% RED LED FLASHING with the 100% GREEN 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. This is also the the indicator for DeltaView Output
	30 & 50% FLASHING 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 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 AND 90% FLASHING 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 periods of time 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 (Except 120V AC models only, ProSport)

- **Operation after Applying AC Power to a 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. See page 25 for further troubleshooting details.

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.

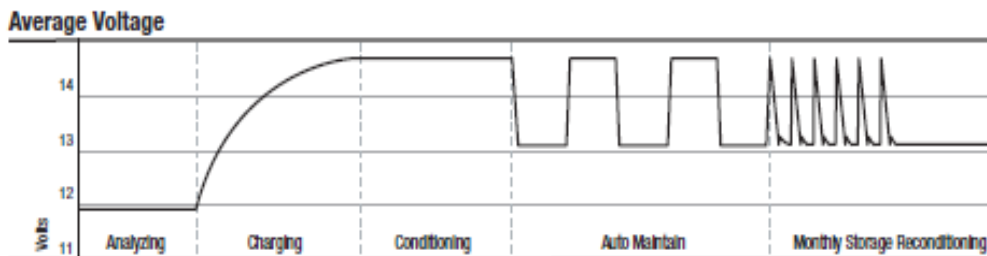
When the multi-stage charge process is completed you will observe the following: Battery type red LED goes OFF.

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.



(Factory installed black programming cap charge profile illustration).

*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.

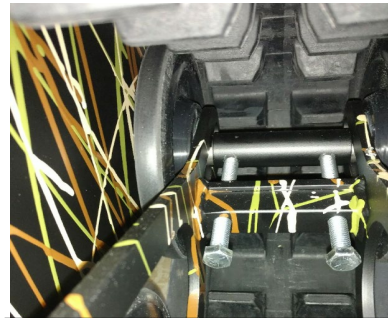
Repairs and Maintenance

Track adjustment procedure for NT/NR model Trackchairs

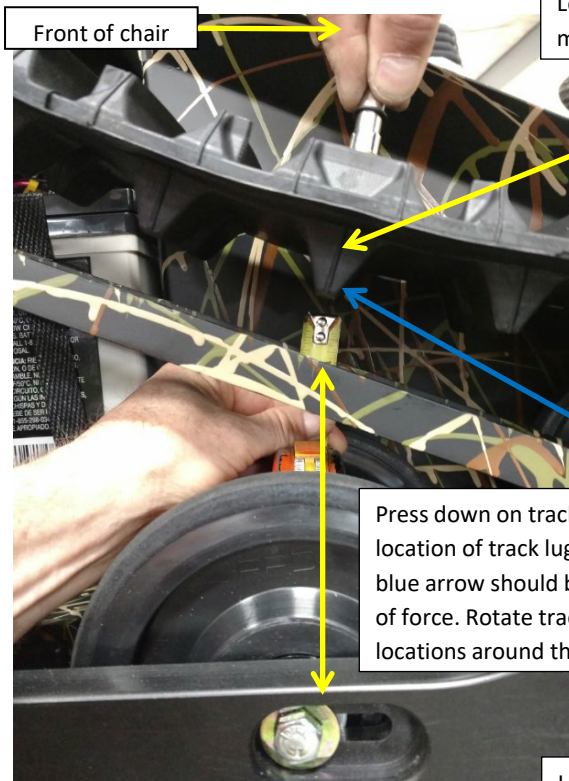
Track can be adjusted by loosening both bolts on the front idler wheels, inside and outside. Track tensioners can be tightened with a 9/16 wrench by turning track tensioner bolts clockwise an even amount. Adjustment is only needed if the track tension does not meet the below spec. ***IT IS NOT NECESSARY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



Elevate Trackchair with suitable lift or blocks, here you see the K&L model MC455 fat jack. (Purchase on-line.)



Track adjuster bolts.



Front of chair

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

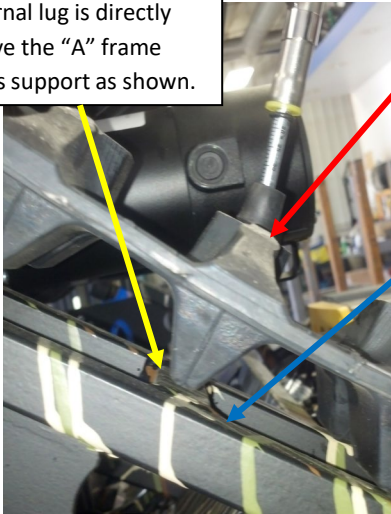
Press down on track with 20 to 25 lbs. of force and observe location of track lug. When properly tensioned the lug at the blue arrow should be about 1" from the frame with 20 to 25 lbs. of force. Rotate track to check measurement at 3 different locations around the track to confirm measurement

Use suitable spring tension gauge purchased from your distributor/dealer #80500

Repairs and Maintenance, cont.

- All bearings are sealed and need no additional greasing.
- **Track adjustment procedure for the ST/TR** 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 spec. **IT IS NOT NECESSARY TO OVER TIGHTEN THE TRACKS.** Re-tighten front idler wheels, inside and outside to 130 in./lbs.

Rotate the track so an internal lug is directly above the "A" frame cross support as shown.



Press down on track with 20 to 25 lbs. of force and observe location of track lug. When properly tensioned the lug should just contact "A" frame at bottom right of picture with 20 to 25 Lbs. of force. Note blue arrow.

ST/TR track adjustment bolts.

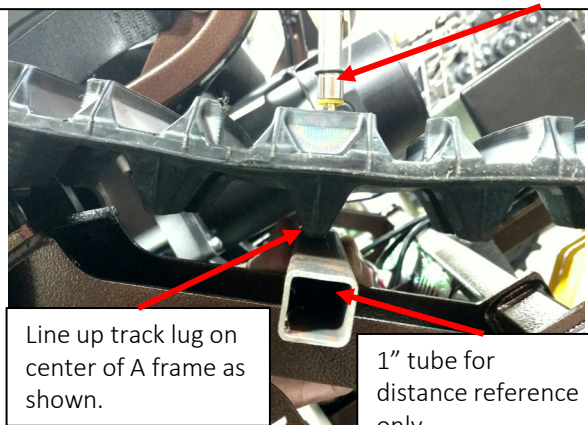


Track adjustment procedure for the STSx/STS can be adjusted by loosening the bolt on the rear idler wheels. Track tensioners can be tightened with a 9/16 wrench, or swivel socket with extension by turning track tensioner bolts clockwise an even amount. Adjustment is only needed if the track tension does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

Starting point for bolts from factory is 1 3/4" from head of bolt as seen in picture with yellow arrow.



Use suitable spring tension gauge to properly press against a 1" tube or comparable 1" measurement. Force should be 25-30 lbs. of force as track lug touches 1" tube.



Line up track lug on center of A frame as shown.

1" tube for distance reference only.

Cleaning your Trackchair/Trackstander

- The Action Trackchair can be washed with a garden hose, do not use high pressure wash to clean the Trackchair.
- **ALWAYS** cover the joystick with a plastic bag to protect it from getting moisture inside. ****THE JOYSTICK IS NOT WATERPROOF** and should be covered when washing or stored outside or when transporting behind the vehicle open.
- Do not spray water directly onto the motor controller which is under the seat.
- Action Manufacturing Inc. does not recommend operating your Trackchair in the salt water, although our Trackchairs are powder coated to the highest quality with very durable powder coat, salt water is very corrosive and causes 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 immediately.

Warranties

- **1 YEAR:** The following components are covered against manufacture defects in materials and workmanship for the period of one year.
 - Batteries
 - Control box and joystick
 - Motors
 - All sprockets and idler wheels
 - Seats
 - Tilt Actuator
 - All other parts 1 year
Parts and Labor.
- **3 YEARS:** The following components are covered against manufacture defects in materials and workmanship for the period of three years.
 - Dual Pro battery charger
1st Year- Parts and Labor 2nd and 3rd Years- Parts Only.
 - Tracks
1st Year- Parts and Labor 2nd and 3rd Years- Parts Only.
 - Frame welding

* Warranty period starts @ delivery date to customer.

Specifications

Model ST

	<i>ST16</i>	<i>ST18</i>	<i>ST20</i>	<i>ST22</i>	<i>ST24</i>
• Model	16"	18"	20"	22"	24"
• Width between arm rest	37"	37"	39"	41"	43"
• Total Width					
• Height				43 inches	
• Length				52.5 inches	
• Weight				400 lbs. est.	
• Seat height				23"	
• Tilt Angle				Forward and Back	
• Tilt on the Fly switch				Standard	
• Track Size				6.5" X 90"	
• Batteries				Two 12-volt AGM	
• Controls				Joystick wheelchair controls	
• Motors				24-volt DC 24:1 ratio	
• Speed				3 MPH Approximate	
• Front USB charging port				Standard	
• Turning Radius				ZERO	
• Ground Clearance				3.5 inches	
• Battery Charger				20 Amp Std.	
• Range				Variable up to 10 Miles	
• Footrest				Optional Flip up footrest	
• Flip up Arm rest				Standard	
• Accessory holders				Three each side/Two back of chair	
• Lap belt				Standard	
• Warranty				One-year parts and labor, all components	
• Three years on welding, Three years on tracks (parts only)					

Specifications

Model STS

- Width between arm rest 20"
 - Total Width 39"
 - Height 43"
 - Length 52.5"
 - Weight 450 lbs. est.
 - Seat height 23"
 - Tilt Angle Forward and Back
 - Tilt on the Fly switch Standard
 - Track Size 6.5" X 90"
 - Batteries Two 12-volt AGM
 - Controls Joystick wheelchair controls
 - Motors 24-volt DC 24:1 ratio
 - Speed 3 mph approximate
 - Front USB charging port Standard
 - Front Battery Charger Plug-in Standard*
 - Turning Radius ZERO
 - Ground Clearance 3.5 inches
 - Battery Charger 20-amp STD
 - Range Variable up to 10 Miles
 - Accessory Holders Two each side/Two back of chair
 - Footrest Optional flip up footrest
 - Lap belt Standard
 - Warranty One-year parts and labor, all components
-
- Three years on welding Three years on tracks (parts only)

*Front battery charger plug-in is not available when Euro style--Power Factor Corrected charger is required.

Specifications

Model NR Trackstander 14"-22" Adjustable

- Track Type II is standard
 - Width 29.5"
 - Height 46" lowered- 59" raised
 - Length 48 inches
 - Weight 450 lbs. est.
 - Person weight limit up to 175 Lb. person
 - Person height limit 45" thru 65"
 - Seat height 26"
 - Seat depth 15"
 - Track Size 6.5" X 90" Type II Standard
 - Batteries Two 12-volt AGM
 - Controls Joystick wheelchair controls
 - Motors 24-volt DC 24:1 ratio
 - Speed 3 MPH approximate
 - Front USB charging port Standard
 - Front Battery Charger Plug-in Standard*
 - Turning Radius ZERO
 - Ground Clearance 3.5 inches
 - Battery Charger 20 Amp std
 - Range Variable up to 10 Miles
 - Footrest Adjustable
 - Knee Support Adjustable
 - Accessory holders Two each side/Three back of chair
 - Flip Up Arm rests Adjustable
 - Four-point harness Standard
 - Warranty One-year parts and labor, all components
 - Three years on welding, three years on tracks (parts only)
- *Front battery charger plug-in is not available when Euro style--Power Factor Corrected charger is required.

Specifications

Model NT

• Model	NT14	NT16	NT18	NT20	NT22
• Width between arm rest	14"	16"	18"	20"	22"
• Total Width	29.5"				
• Height	47"				
• Length	47.5" inches w/rear idlers				
• Weight	440 lbs. est.				
• Seat height	26.5"				
• Tilt Angle	Forward and Back				
• Tilt on the Fly switch	Standard				
• Track Size	6.5" X 90" Type II Standard				
• Batteries	Two 12-volt AGM				
• Controls	Joystick wheelchair controls				
• Motors	24-volt DC 24:1 ratio				
• Speed	3 MPH Estimate				
• Front USB charging port	Standard				
• Front Battery Charger Plug-in	Standard *				
• Turning Radius	ZERO				
• Ground Clearance	3.5 inches				
• Battery Charger	20-amp Std.				
• Range	Variable up to 10 Miles				
• Footrest	Flip up footrest standard				
• Flip up Arm rest	Standard				
• Accessory holders	Two each side/Three back of chair				
• Lap belt	Standard				
• Warranty	One-year parts and labor, all components				
• Three years on welding					
• Three years on tracks (parts only)					

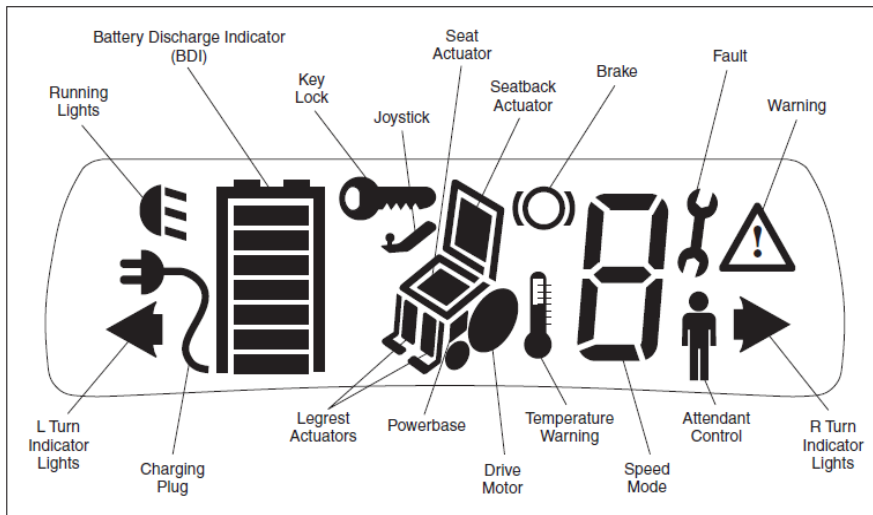
*Front battery charger plug-in is not available when Euro style--Power Factor Corrected charger is required.

Specifications

Model TR Trackstander






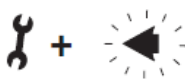
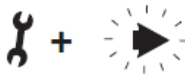

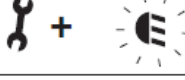




	<u>Width between armrests</u>	<u>seat depth</u>	<u>total width</u>
• Model TR1816	18 inches	16"	37"
• Model TR1820	18 inches	20"	37"
• Model TR2016	20 inches	16"	39"
• Model TR2020	20 inches	20"	39"
• Height		43" lowered- 63" raised	
• Length		59 inches	
• Weight		490 lbs. est. (TR2020)	
• Seat height		24"	
• Tilt angle for chair		Forward and back	
• Tilt on the fly switch		Standard	
• Track Size		6.5" X 90"	
• Batteries		Two 12-volt AGM	
• Controls		Joystick wheelchair controls	
• Motors		24-volt DC 24:1 ratio	
• Speed		3 MPH approximate	
• Front USB charging port		Standard	
• Turning Radius		ZERO	
• Ground Clearance		3.5 inches	
• Battery Charger		20 Amp Std.	
• Range		Variable up to 10 Miles	
• Accessory holders		Two each side/Two back of chair	
• Footrest		Adjustable	
• Knee Support		Adjustable	
• Flip Up Arm rests		Standard	
• Four-point Harness		Standard	
• Warranty		One-year parts and labor, all components	
•	• Three years on welding		
•	• Three years on tracks (parts only)		

Hand Control Faults/Error Codes, Cont.



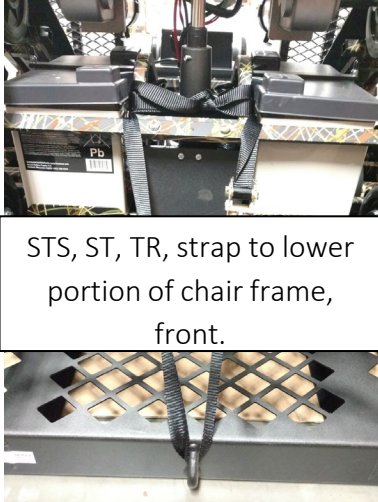
HANDCONTROL LCD DISPLAY	FAULT/WARNING	REMEDY
	Power Section Fault, or Current Sensor Fault, or EEPROM Fault, or Main Relay Fault, or Precharge Fault, or HW Fallsafe Fault.	<ol style="list-style-type: none"> 1. Cycle power. 2. Replace powerbase.
	Handcontrol Fault, or Joystick Fault: Joystick Out-of-Center, Joystick Stuck OOC, Joystick Out-of-Range.	<ol style="list-style-type: none"> 1. Return joystick to neutral and cycle power. 2. Recalibrate joystick (see Joystick menu, page 26). 3. Check joystick cable and cable connections. 4. Replace joystick. 5. Replace handcontrol.
 <i>These flash alternately.</i>	Communications Fault.	<ol style="list-style-type: none"> 1. Check cable and cable connections. 2. Replace cable.
	Brake Fault.	<ol style="list-style-type: none"> 1. Check wiring. 2. Replace motor. 3. Replace powerbase.
	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 seat is not jammed. 4. Check actuator; replace if faulty. 5. Replace powerbase.
	Leg 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 leg rest is not jammed. 4. Check actuator; replace if faulty. 5. Replace powerbase.

Hand Control Faults/Error Codes, Cont.

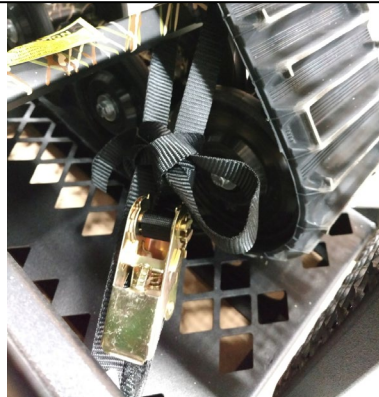
HANDCONTROL LCD DISPLAY	FAULT/WARNING	REMEDY
	Undervoltage Warning	<ol style="list-style-type: none"> 1. Recharge battery. 2. Replace old battery. 3. If this is happening frequently, replace charger. 4. Check charger port on handcontrol; replace if damaged.
	Overvoltage Warning.	<ol style="list-style-type: none"> 1. Wait for voltage to come down. 2. Replace old battery. 3. Check charger; replace if faulty.
	Controller Over/Undertemperature Warning.	<ol style="list-style-type: none"> 1. If too hot, wait for controller to cool. 2. If too cold, drive chair in limited current mode until controller warms up.
	Drive Thermal Warning.	<ol style="list-style-type: none"> 1. Wait for motor to cool.
	Open Motor Fault.	<ol style="list-style-type: none"> 1. Check wiring. 2. Replace motor. 3. 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.
	Low battery.	<ol style="list-style-type: none"> 1. Recharge battery.
	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).
 <i>The bars on the battery icon light up in a chase sequence.</i>	Battery charging; inhibit. *	<ol style="list-style-type: none"> 1. Unplug charger when charging is complete.

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

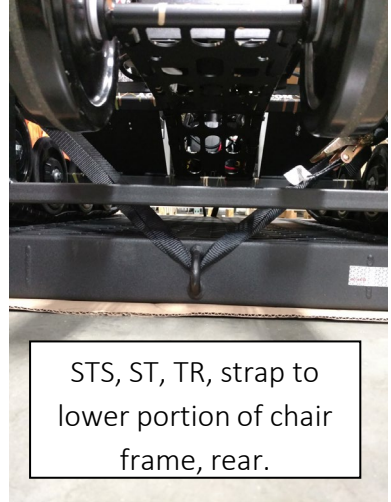
Strapping Methods, Action Trackchair



STS, ST, TR, strap to lower portion of chair frame, front.



STS, ST, TR, strap to lower portion of chair, rear.

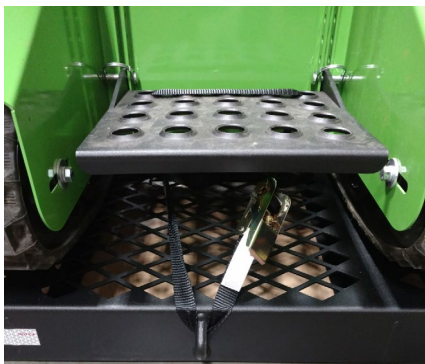


STS, ST, TR, strap to lower portion of chair frame, rear.

Proper strapping options for Action Trackchair to the carrier

*****Class III receiver hitch required for carrier, Check auto manufacturers recommendation for hitch capacity*****

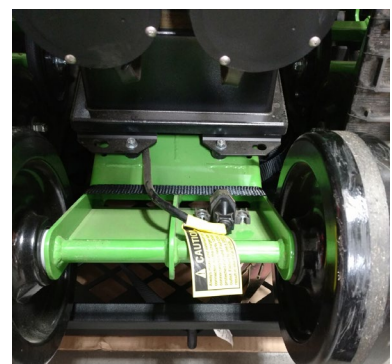
- **Class III—2”**-- Up to 6,000 pounds towing capacity, up to 600 pounds tongue weight



NT, NR, front, strap through footrest, through carrier and secure.



NT, NR, rear, lower view, strap around wheelie bar frame.

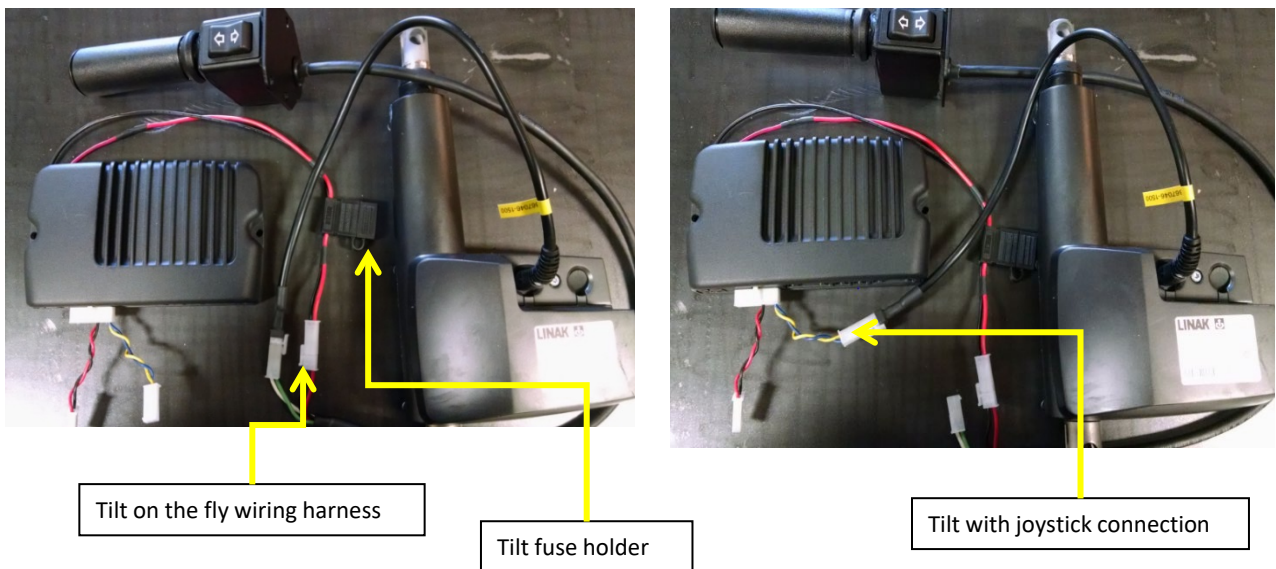


NT, NR, rear, top view strapping around wheelie bar, use caution with AC cord.

Rocker Switch Override Instructions

Actuator not moving up or down?

- First check the fuse in the black fuse holder located at the black & 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 that the actuator does work, then the problem would be in the “Tilt on the Fly” rocker switch or wiring to it.





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.