

# Strike Force USER MANUAL



**REDEFINE  
YOUR  
LIMITS.**

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## **LIMITED WARRANTY**

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THIS LIMITED WARRANTY DOES NOT COVER DAMAGE CAUSED BY ABUSE, NEGLIGENCE OR IMPROPER USE/CARE/MAINTENANCE OR FROM OTHER CAUSES BEYOND THE REASONABLE CONTROL OF NORTHERN ENGINEERING AND MANUFACTURING, INC. D/B/A POWER SOCCER SHOP

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- A. IF OWNER FAILS TO GIVE NORTHERN ENGINEERING AND MANUFACTURING, INC. D/B/A POWER SOCCER SHOP NOTICE IN WRITING OF ANY CLAIM DURING THE WARRANTY PERIOD; AND
- B. IF OWNER OR ANYONE ON OWNER'S BEHALF ATTEMPTS TO ALTER OR REPAIR THE PRODUCT FRAME OR GUARD.

THE WRITTEN LIMITED WARRANTY STATED HEREIN IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY NORTHERN ENGINEERING AND MANUFACTURING, INC. D/B/A POWER SOCCER SHOP. ALL OTHER WARRANTIES ARE HEREBY DISCLAIMED; NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE GIVEN. NORTHERN ENGINEERING AND MANUFACTURING, INC. D/B/A POWER SOCCER SHOP DISCLAIMS ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

## **SAFE OPERATION WARNINGS**

The Strike Force Chair is for Power Soccer ONLY! It is not built for everyday driving. "Off court" driving with the rear casters down will DAMAGE the casters!!! See Pg. 11

"Off court" driving the Strike Force Chair as an everyday power wheelchair may damage the front casters, and/ or other parts of the chair!

Strap feet down if they interfere with the front casters! As this can cause the front wheels to wear unevenly.

Make sure the chair is powered off while doing any of the following:

- Transferring
- Adjusting the chair
- Eating
- Any instance while not in use

The joystick can be bumped by someone other than the driver, which can result in injury!

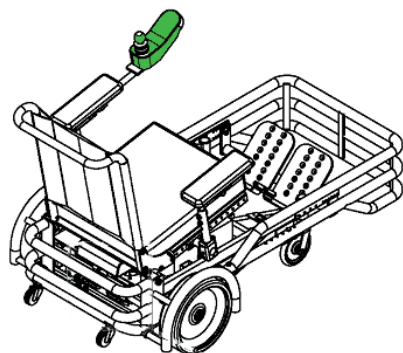
Do not drive in Profile 5, "Soccer Speed" when you are not on the power soccer court!

Slopes greater than 10% grade (one foot rise for every ten feet in length) can be dangerous and may cause the chair to tip over backwards!

## CONTROLLER

The Strike Force is equipped with a programmable and easy-to-use R-Net controller. The top button turns the Strike Force chair ON and OFF.

### Drive Profiles



The controller module, which is the “brain” of the Strike Force, is capable of holding five different “Drive Profiles”. Each profile is a specific group of settings for your chair that controls things such as speed, acceleration, deceleration, or sensitivity. Each profile is identified with a number from 1 to 5 and an assigned name.

To switch between the different profiles, press the PROFILE button. Each press activates the next profile.

The Strike Force is delivered pre-programmed with specific settings for each profile. Below is a brief description of the factory settings:

- Profile 1 is slow and recommended for indoor use when not playing
- Profile 2 is slightly faster and more sensitive
- Profile 3 is the normal program, with medium speed and control sensitivity
- Profile 4 is fast with more sensitive control settings
- **Profile 5 is ONLY for Power Soccer**

### Mode

If the Strike Force is equipped with tilt and/or recline capabilities, pressing the MODE button will activate these functions. Moving the joystick forward or backward will move the backrest or tilt the seating. To switch between tilt and recline, move the joystick left or right.



**If the MODE button has been pressed, you cannot switch between profiles by pressing PROFILE. Press MODE again to exit the Mode function, and then switch profiles.**

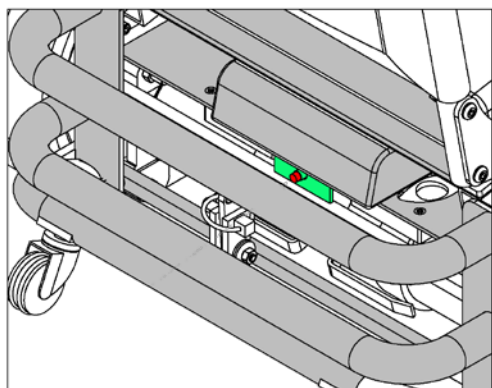
## Speed

The speed adjustment buttons on the Strike Force controller allow the user to globally change the speed of the chair. The two (2) speed buttons decrease or increase the maximum speed of the wheelchair.



**Adjusting the speed with these buttons will affect the speed across ALL profiles. If you need to adjust a specific parameter within a profile, please contact Power Soccer Shop.**

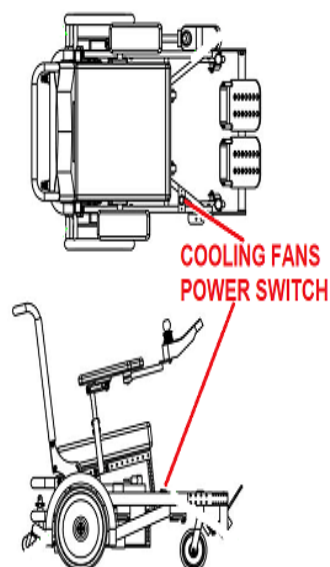
## Safety Breaker



To protect the controller module, an 80 Amp breaker has been installed on the wheelchair. Although very rare, if the chair is overworked, the breaker button may pop out. If this happens, the Strike Force will stop. Press the button located in the rear under the controller module and the chair should again function properly.

## Fan Power Switch

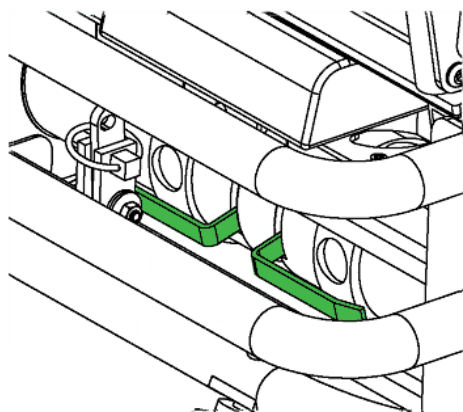
On/Off switch for cooling fans





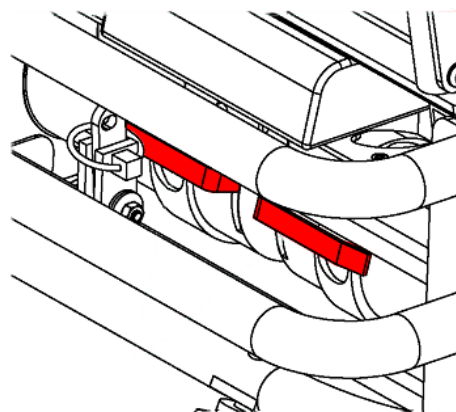
## BRAKES

The Strike Force motors have brakes that prevent the chair from moving. They activate automatically when the joystick is in a neutral position or if the chair is turned off. The brakes can be engaged or disengaged by pushing down or pulling up the brake lever of each motor located in the back of the chair.



Brakes are ON

To manually engage the brakes, locate the two (2) levers in the back of the chair attached the motors and pull them down.



Brakes are OFF

To manually disengage the brakes, locate the two (2) levers located at back of the chair attached to the motors and lift them up.



**If there is a weight plate mounted to the Strike Force, the levers will be behind the weight and can be accessed by reaching underneath the plate.**

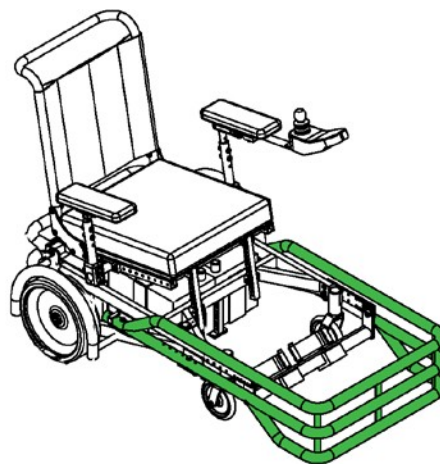


**It is HIGHLY recommended to leave the brakes engaged at all times. Disengaging the brakes can be hazardous. The owner assumes all responsibility for any injury or damage that occurs due to disengaged brakes.**

## GUARD

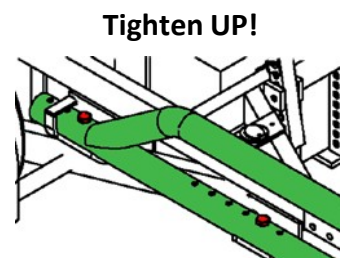
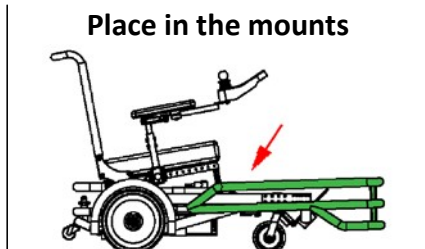
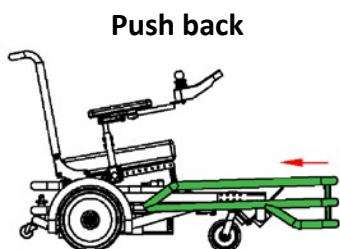
The foot guard is what Power Soccer athletes use to move and kick the ball. A special mounting system attaches the guard to the frame of the Strike Force.

The dimensions of the guard comply with the international standard established by Federation Internationale de Powerchair Football (FIPFA).



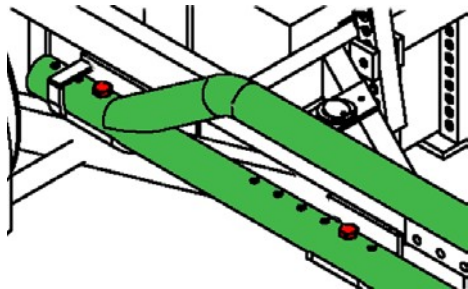
## Install

To attach the guard, place each side of the guard on the mount and push it backward (to the rear of the chair). On each mount is a guiding bolt to indicate where the guard should be placed. Once the holes underneath the guard fall on the guiding bolts, place the four (4) 5/16" bolts and tighten firmly with a 1/2" wrench. The chair is now ready to go for Power Soccer!



**In order to remain in compliance with FIPFA regulations, the position of the guard is not adjustable.**

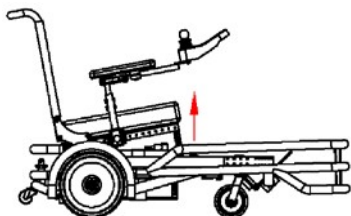
## Remove



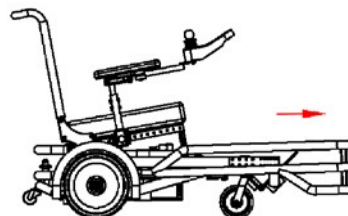
The guard is just as easily removed from the chair. With  $\frac{1}{2}$ " wrench, remove the four (4)  $\frac{5}{16}$ " bolts located on each side that secure the guard.

Once the bolts are removed, lift up the guard slightly to clear the guiding bolts. Then pull the guard to clear the frame.

**Lift up**



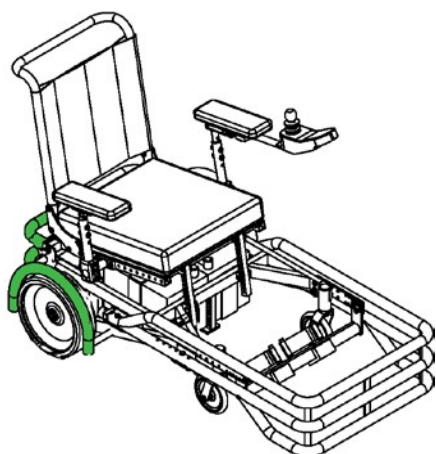
**Pull forward**



## Traveling Kit

An optional traveling kit can be mounted on the Strike Force. The traveling kit uses the original guard mounting system in order to attach the guard vertically on the chair and reduce the overall length of the wheelchair when traveling.

## ANTI-TIP SYSTEM



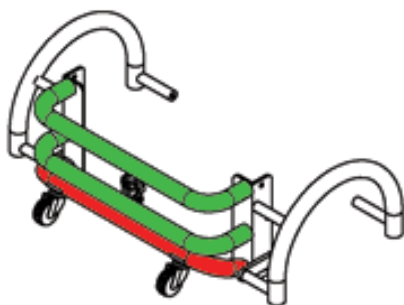
The Anti-Tip system of the Strike Force consists of multiple components to increase player safety:

- A bar over each rear wheel designed to prevent the chair from rolling over the soccer ball and flipping.
- A rear guard with two (2) independent caster wheels that prevent the chair from tipping backwards.

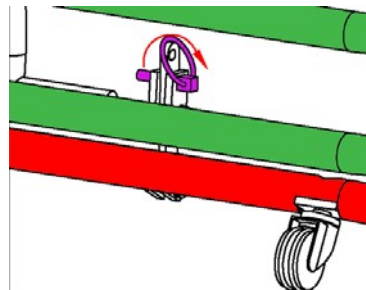
The Anti-Tip mechanism attached to the rear guard is calibrated to minimize the tilting angle of the chair, making the chair very stable despite aggressive driving.

The Strike Force Anti-Tip mechanism on the rear guard can be elevated when the chair is not being used on the court. A locking pin and ring are used to secure the bottom bar of the rear guard in place. To elevate or lower the anti-tip wheels, the ring must be flipped over and then the pin pulled out. The bottom bar of the rear guard is now free to be moved up or down. After moving the bottom bar in place, reinsert the pin and flip the ring over to secure the pin.

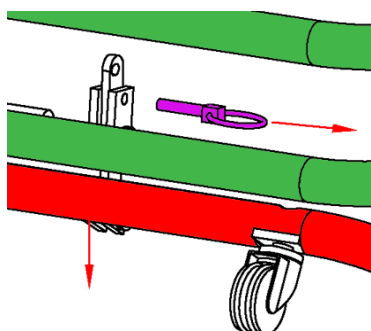
**1 - Anti-Tip is UP**



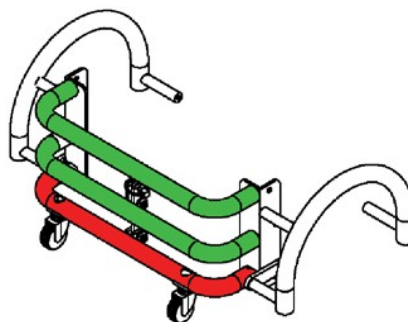
**2 - Flip the ring over**



**3 - Pull the pin out**



**4 - Push the bar down**





**Before participating in any kind of indoor activity, the anti-tip wheels must be positioned DOWN.**



**The Anti-Tip wheels are not designed for outdoor surfaces and should be elevated**

**when the chair is being transported outdoors. Driving on rough and/or uneven surfaces with the Anti-Tip mechanism down can severely damage the wheels. In addition, when traveling on uneven surfaces, the chair could get stuck if the anti-tip wheels are left DOWN.**

## MANUAL TILT AND RECLINE



This section is for the Strike Force without Power Tilt and/or Recline option.



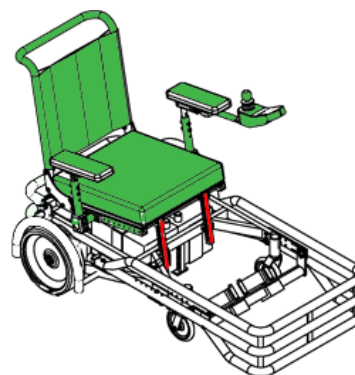
Before making any adjustments to the seat, ensure that no one is sitting on it. Failure to do so could result in serious injury.

### Tilt

The seat pan of the Strike Force can be tilted to the desired angle. To proceed, locate the two (2) 5/16" bolts that secure the seat pan located at the front the battery and use a 3/16" Allen wrench to remove them.

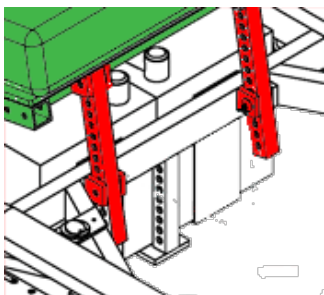


Before removing the second bolt, hold the seat pan to prevent the seat pan from dropping down as it has no support.

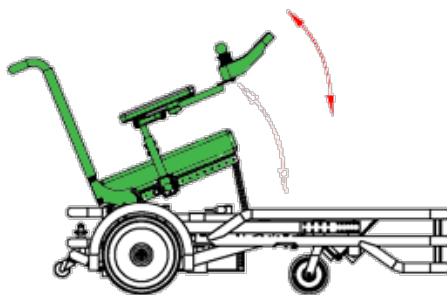


After removing the two bolts, angle the seating according to the needs of the athlete and put the bolts back in place to secure the seat.

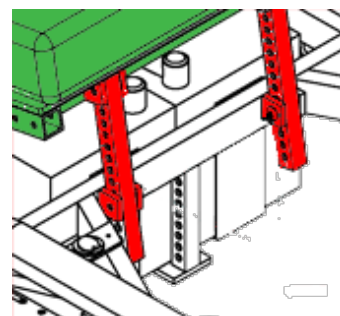
Remove the bolts.



Adjust the angle.



Secure the bolts



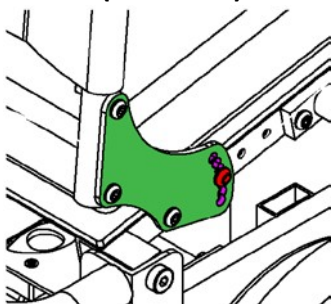
If you need to test the seat angle prior to securing the seat, be sure to insert the bolts before placing anyone on the seat.

## Recline

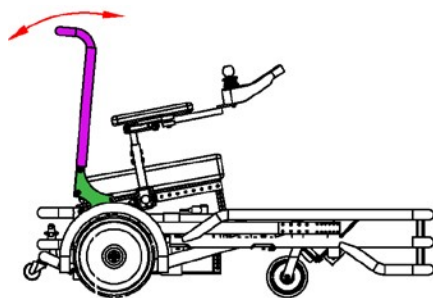


The back rest can also be adjusted separately according to the needs of the athletes. To make adjustments, use a 3/16" Allen wrench to remove the 5/16" bolt located on the back rest mount located on each side of the chair. When each bolt has been removed, adjust the angle and place the bolts back to the mount to secure the new angle. To finish, make sure each bolt is in place and tightened.

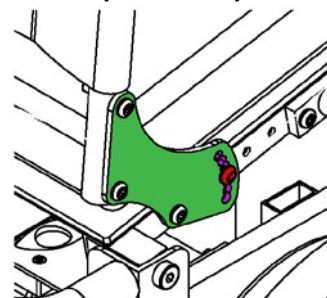
**Remove the bolt  
(each side)**



**Adjust the angle of the back rest**

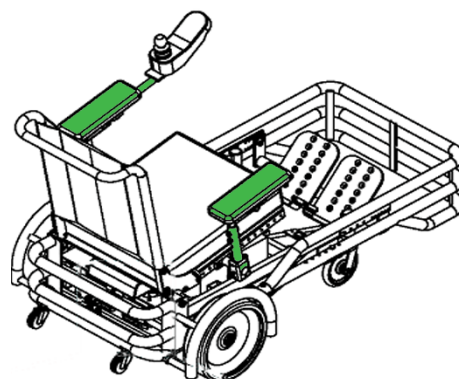


**Secure the bolts!  
(each side)**

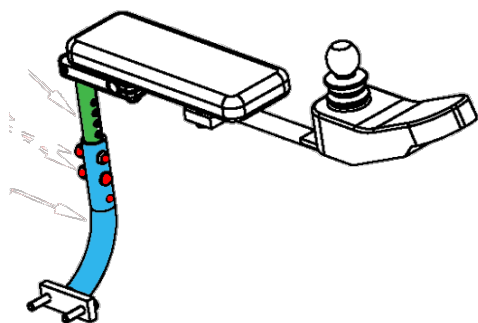


## ARM REST

The flexible design of the Strike Force allows athletes to position the arm rests and the controller in a wide variety of positions. The following will cover how to take advantage of the arm rest system to set them and the controller in the exact location desired.



### Height



To adjust the arm rest height, locate and remove the two (2) 5/16" bolts (red) that secure the extension tube (green) on the top to the main tube (blue) with a 1/2" wrench.

The extension tube is now free to move up and down. After placing the arm rest at the desired height, replace the bolts in their original position in order to secure the extension tube.

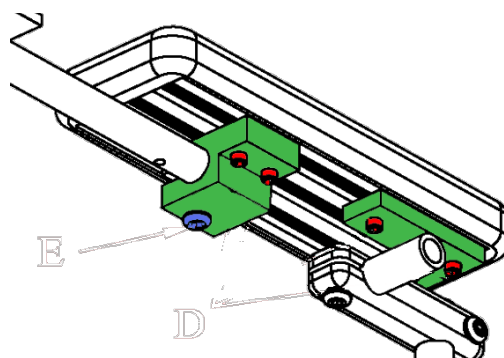


**The arm rest height is adjustable in 1/2" increments.**

### Arm Pads and Controller Mount

The arm pads, controller mounts and controller post can all individually slide forwards and backwards to position them exactly where they are desired.

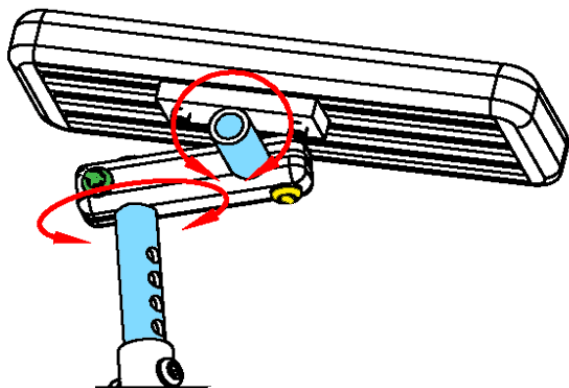
To slide the arm pads and/or controller mount, locate and loosen the 10-32" bolts (red) with a 5/16" Allen wrench. For the Controller post, use a 3/16" Allen wrench to loosen the 5/16" bolt (purple).







To remove the Joystick easily, loosen the 5/16" (purple) bolt and remove the entire mount with the controller attached to it. **Don't forget to unplug the controller.**



The arm pads can also tilt vertically and rotate horizontally.

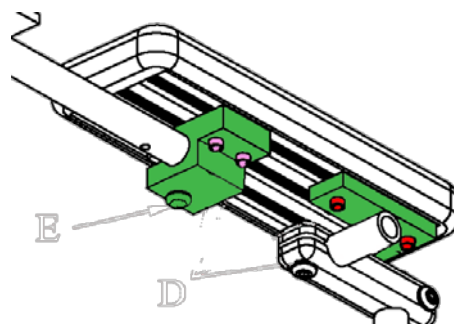
To tilt, locate and loosen the 5/16" bolt (yellow) with a 3/16" Allen wrench. Then change the arm pad angle, when the angle is set, tighten the bolt.

To rotate the arm pad, locate and loosen the 5/16" bolt (green) with a 3/16" Allen wrench. When the arm pad is set to its new position, tighten the bolt.

After adjusting the arm pad, check and tighten both bolts further if necessary.

Underneath each arm pad is a series of three rails which allows for adjusting the distance of the pad from the athlete. To make this adjustment, loosen the 5/16" bolts (yellow in figure above) and completely remove the arm pad from the arm.

Then, remove the two (2) 10-32" bolts (red) to remove the pad from the mount.



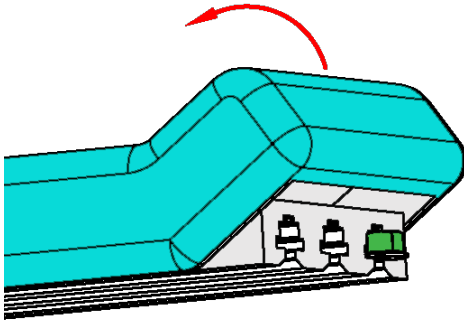
If the Controller is mounted on the arm pad, remove the two (2) 10-32" bolts (pink) that secure the controller mount to the pad. It is not required, but makes adjusting the arm pad easier.

On the arm pad, pull up at the end of the rubber padding. Then slide the 10-32" flange nuts in or out of the channel as shown in the illustration below. Once the flange nuts are placed in the desired channel, press the rubber padding back over the arm.

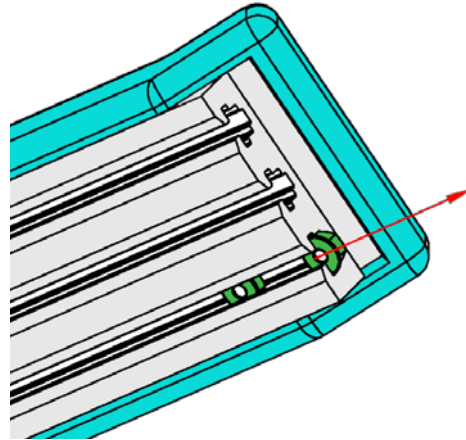
The arm pad is now ready to return to the arm rest. Place the arm pad back to the mount and make sure the 10-32" nuts (red) are in the proper location above the mounting block. Secure the bolts.

Adjust each arm rest as needed.

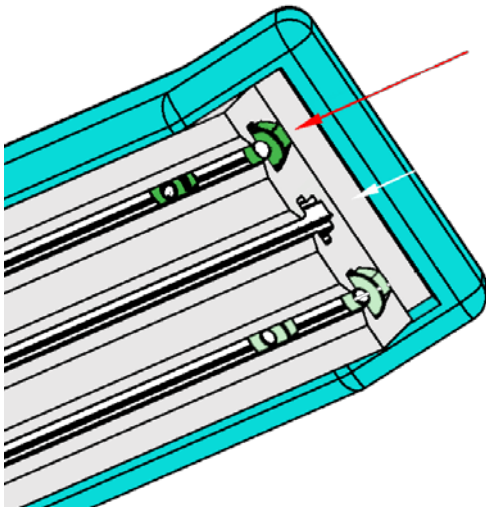
Lift up the end of the arm pad



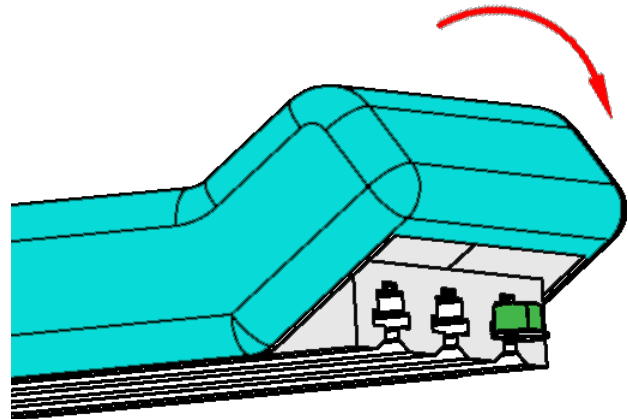
Slide out the 10-32" flange nut.



Slide in the 10-32" flange nut.



Push down the end of the arm pad.



## FOOTREST



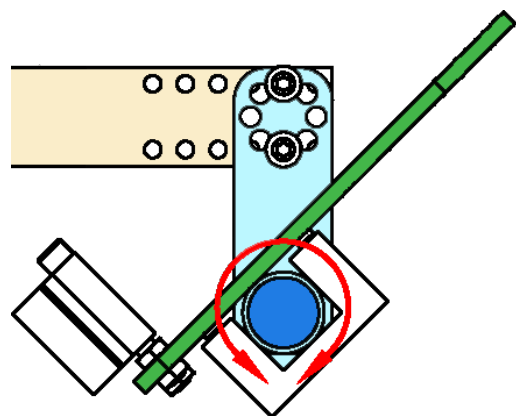
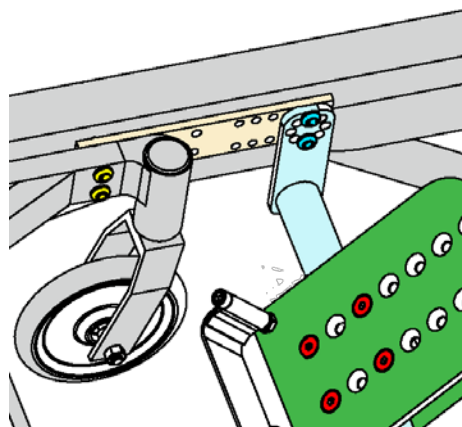
The Strike Force has one of three options available for the footrests:

- Round Bar
- Round Bar with two (2) Footrest Plates
- Single Plate Footrest

### Round Bar and Round Bar with two (2) Footrest Plates

All the adjustments described in this section referring to the Round Bar (light blue) can be applied with or without the footrest plates mounted on it.

The double plates offer different adjustments in order to fit a wide range of needs. With little effort, it is easy to change the length, angle and position of the plates.



To change the angle and/or spacing of one or both plates, locate and loosen the four (4)  $\frac{1}{4}$ " bolts (red) with a  $\frac{3}{16}$ " Allen wrench. Then, rotate the plate around the round bar (light blue) to the desirable angle and or slide the plate along the round bar to the desirable width. When the plates are set, tighten the bolts to secure them.

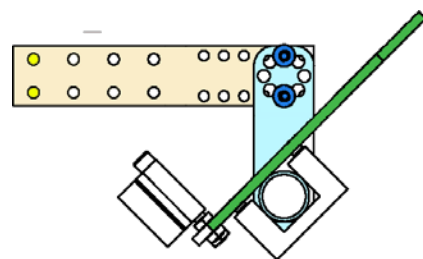
There are two (2) different ways to fine tune the distance of the footplates:

1. Locate and remove the 5/16" bolts (yellow in above illustration) on each side at the front of the frame. Then slide the entire footrest assembly (light yellow) forward or backward according your needs. Tighten the bolts to secure in place.
2. Locate and remove the 5/16" bolts (blue) that secure the round bar to the mount (light yellow) and slide the round bar (light blue) forward or backward to a desirable position. When the round bar is set, tighten the bolts to secure in place.

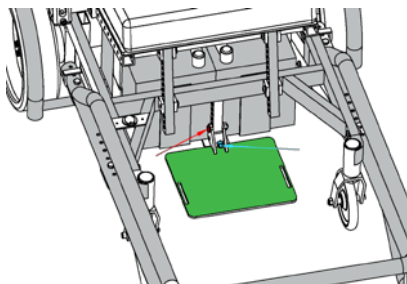
Removing the 5/16" bolts (dark blue) also allows you to change the angle of the round bar.



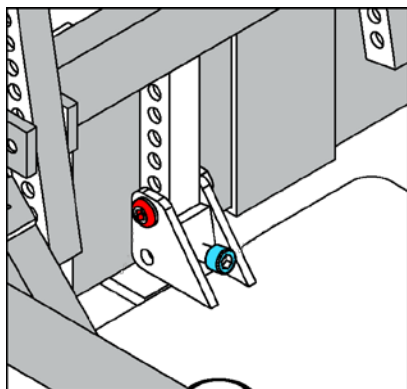
**Adjusting the round bar will make small changes to the height of the bar and its distance from the seat.**



## Single Plate Footrest



The single plate footrest is another available option. In this configuration, the footrest is attached directly to the Strike Force frame, so if it needs to be extended out, the two-plate system is recommended. However, the single plate system still allows for adjustment of the height and angle of the plate.



To adjust the height of the footplate, locate and remove the 5/16" bolt (red) with a 3/16" Allen wrench and a 1/2" wrench to remove the lock nut. Then position the single plate at the desirable height and secure in place.

To adjust the angle of the footplate, locate the 5/16" bolt (blue) and with a 3/16" Allen wrench. Turn the screw clockwise to raise the angle of the plate or counter-clockwise to lower the angle. Do not remove the bolt.

## **BASIC MAINTENANCE**

The Strike Force is a high-performance power wheelchair that is designed to withstand very aggressive driving. However, it requires basic maintenance and care to remain in top condition.

### **Frame**

To clean your Strike Force frame, you can blow it off with an air hose. You can also wipe it down with a damp cloth.

### **Seating**

If your Strike Force has the sports seat, you can wipe it down with a damp cloth and a vinyl conditioner.

### **Tires**

The front tires should last a long time. The drive tires wear time depends on your driving style. The anti-tip casters should last a long time if you do not drive "off court" with them down. See Page 11. If tires are wearing unevenly, you can rotate tires from side to side.

### **Batteries**

Your Strike Force has two 12-volt batteries. They are sealed gel cell batteries and FAA approved. They need to be charged with a charger that has a "Gel" setting. The charger needs to be 24 volts and outputs between 8 – 13 amps.

To charge the chair, plug the XLR (three prong) charger plug into the front of the controller.

Charge your batteries every night!!! Battery life decreases if you let your batteries get too low.

New batteries take 15 to 20 charges to reach maximum performance. If your Strike Force sits for a few days between practices, never let it sit more than 24 hours with low batteries. It is recommended to charge the night after practice or competition, then charge it again the night before your next session. **DISCONNECT FRONT POSITIVE CABLE WHEN NOT IN USE FOR LONG PERIODS OF TIME. MUST CHARGE AFTER PRACTICE, DO NOT LET SIT PARTIALLY CHARGED.**

## Motor Brushes

Besides keeping the Strike Force clean, it is also recommended before every season to perform maintenance on the motors by checking the four brushes in each motor.

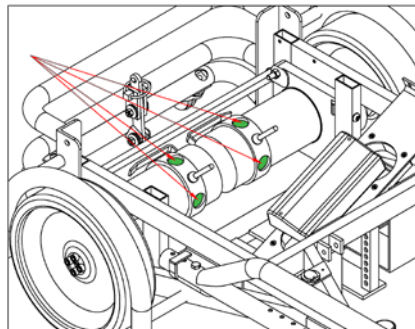


**Power Soccer Shop recommends a trained professional carry out the procedure described in this section. Performing this maintenance without proper training may result in serious damage to the Strike Force motors.**

To check the brushes, take off the seat by removing the two bolts that secure it with a 3/16" Allen wrench and two ¼" bolts in front.

Next, unplug both batteries by removing the battery cable. It is not required to remove the batteries.

Use a standard flathead screwdriver to remove the brush caps (green).



**The brushes are spring loaded, and may pop the cap out. Once the cap is removed, grab the end of the spring and gently work the brush out. To get to the brushes underneath the motors, the chair will need to be lifted up on to its side.**

## SAFE SECUREMENT FOR TRANSPORTATION

Below are recommended securement areas for your Strike Force chair. Be aware that these securement areas are not designed as tie down points. They are simply recommendations.

Power Soccer Shop claims **NO** responsibility for how the chair is secured. The Strike Force has **NOT** been crash tested, transport at your own risk.

