

SAFER AUTOMATIC WHEEL LOCK CLEANING PROCEDURES

The material used in Safer Locks is developed by one of America's top corporations, DuPont. The plastic materials used in the locks include Zytel nylon, a component that is strong, durable and slides easily against itself and metals without the use of lubricants.

Even when exposed to water, Zytel will not corrode or degrade.

Safer Locks use only stainless steel and zinc hardware which allow the locks to be washed by any cleaning method without the risk of rust or corrosion.

SAFER AUTOMATIC WHEEL LOCK WARRANTY

Safer Automatic Wheelchair Wheel Locks are warranted to be free from defects in material and workmanship under normal operating conditions for a period of **TWO YEARS** from the date of purchase.

Safer Automatic Wheelchair Wheel Locks sole obligation under this warranty will be replacement of the automatic wheel locking device and shipping cost.

This warranty does not cover failure due to abuse, misuse, alterations or improper installation performed outside of the Safer Automatic Wheelchair Wheel Lock facility.

Keep this manual and sales slip together for future reference. Proof of purchase or installation date must be provided for warranty service.

Write down the following information about your Safer Automatic Wheelchair Wheel Lock Kit to better help you obtain assistance or service in the event it should ever be needed.

You will need to know your complete wheelchair model and serial number, and the complete Safer Lock Kit part and serial number. The Safer Lock Kit part number is located on the box that the kit was received in. The serial number is on the back of the Lock Pin Assembly.

Dealer Name: _____

Date of Purchase: _____

Lock Kit Part Number: _____

Lock Kit Serial Number: _____

Wheelchair Model: _____

Wheelchair Serial Number: _____



Manufactured By; United Plastic Molders, Inc.
105 East Rankin Street • Jackson, MS 39201
Phone: 800-890-5113 • Fax: 601-353-0411
www.SaferWheelchairs.com

INSTALLATION/USER MANUAL

KIT MODEL:

SAFER-BR-600

FITS BREEZY WHEELCHAIR MODEL:

Breezy 600



IMPORTANT!

Please read the *entire* installation manual and review all pictures before starting installation

INSTALLATION VIDEOS ARE AVAILABLE ON OUR WEBSITE AT
www.SaferWheelchairs.com



Installation & Maintenance Manual

Safer Automatic Wheel Lock Kit

1. GENERAL

Check all parts for shipping damage. In case of damage, DO NOT USE. Contact Carrier/ UPM for further instructions.

To ensure the safe installation of your Safer Automatic Wheel Lock Kit, these instructions must be followed.

FOR INSTALLATION OR TECHNICAL ASSISTANCE PLEASE CALL 601-353-3193 x 215

1.1 Symbols

Signal words are used in this manual and apply to hazards or unsafe practices which could result in personal injury or property damage. See information below for definitions of the signal words.

WARNING

Warning indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.

CAUTION

Caution indicates a potentially hazardous situation which, if not avoided, may result in property damage or minor injury or both.



Gives useful tips, recommendations and information for efficient, trouble free use

1.2 Overview

WARNING

DO NOT use this product or any optional equipment without first completely reading and understanding these instructions and any additional instructional material such as owner's and service manuals supplied with this product or optional equipment. If you are unable to understand the warnings, cautions or instructions, contact a healthcare professional, dealer or technical personnel before attempting to use this equipment; otherwise, injury or damage may occur.

This procedure must be performed by a qualified technician.

After any adjustments, repair or service and before use, make sure that all attaching hardware is tightened securely; otherwise injury or damage may result.



WARNING

Sloped Surfaces: Always engage the wheelchairs manual wheel locks while seated on any type of sloped surface. Safer Locks are not designed to engage while the wheelchair is occupied.



WARNING

The intended use of Safer Automatic Wheelchair Locks is to safeguard the user from unintended wheelchair roll while transferring to and from the wheelchair in the event that the manual wheel locks are not used.



CONTINUE TO USE MANUAL WHEEL LOCKS AS NORMAL

SAFER WHEELCHAIR SERVICE STAND

A MUST HAVE FOR MANUAL WHEELCHAIR SERVICE, REPAIR & CLEANING

- Solid, secure platform for all types of wheelchair service and repairs
- Unparalleled access for disinfecting wheels and other hard to reach areas
- Lightweight, portable design allows for easy and efficient use while on the road
- Durably built for everyday warehouse use




www.SaferWheelchairs.com




6. SAFER LOCK KITS BY WHEELCHAIR MAKE AND MODEL

INVACARE	Kit Model	Seat Width	Back Height
Tracer EX2	SAFER-IVC	16"-20"	16"
Tracer SX5	SAFER-IVC	16"-22"	16"-18"
9000 SL	SAFER-IVC	16"-20"	ADJ
9000 XT *Dual Axle Frame*	SAFER-IVC	16"-22"	ADJ
9000 XDT	SAFER-IVC	16"-22"	ADJ
Tracer SX5 Recliner	SAFER-IVC-RC	16"-22"	34"
Tracer IV	SAFER-IVC-T4	16"-24"	16"
9000 XT **Super Hemi/Single Axle**	SAFER-IVC-SL	16"-18"	ADJ
MEDLINE			
Excel Narrow	SAFER-MED	16"	16"
Excel 2000	SAFER-MED	18"	16"
Excel Wide (300 LB Capacity)	SAFER-MED	20"	16"
Excel K3 Lightweight	SAFER-MED	16"-18"	16"
Excel K4 Lightweight	SAFER-MED-K4	16"-20"	ADJ
BREEZY			
Breezy Ultra 4	SAFER-GT-U4	16"-20"	ADJ
Breezy 600	SAFER-BR-600	16"-20"	ADJ
* WILL NOT FIT ULTRA HEMI			
DRIVE			
Cruiser III	SAFER-DRV-C3	16"-20"	16"
Silver Sport 1 & 2*	SAFER-SS2-NVA	16"-20"	16"
Viper Plus GT	SAFER-GT-U4	16"-22"	ADJ
Sentra EC	SAFER-DRV	20"-22"	16"
* ALSO FITS NOVA 5000 SERIES			

2. GENERAL OVERVIEW

 Tools Required: Flathead Screwdriver, Phillips Screwdriver, Socket Wrench Set, Level, Rubber Hammer, (Allen Wrench Included)

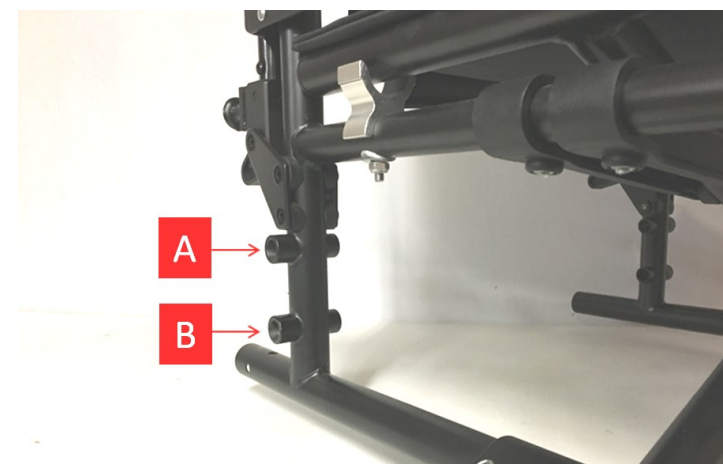
 If not using a Safer Wheelchair Service Stand during installation, see below:
IF AT ALL POSSIBLE, install your Safer Lock Kit with the wheelchair **right-side up**. **SECURELY** block up the wheelchair frame 1-3 feet from the floor, allowing for better access and enabling the wheels to rotate freely.

2.1 Parts Supplied

 Check that you receive all parts listed and for any damage to parts during shipping. In case of damage, DO NOT USE. Contact Carrier/UPM for further instructions



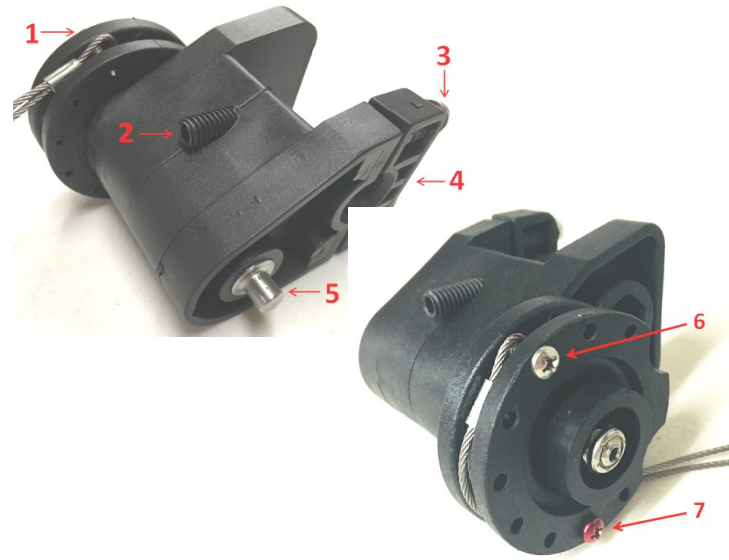
2.2 Wheelchair Height Settings



A: Hemi Height: Generally 2" lower than Adult/ Standard Height, giving a seat to floor height of 17.5", allowing the user to easily propel the wheelchair with their feet.

B: Adult/Standard Height: Typically sets seat to floor height at 19.5".

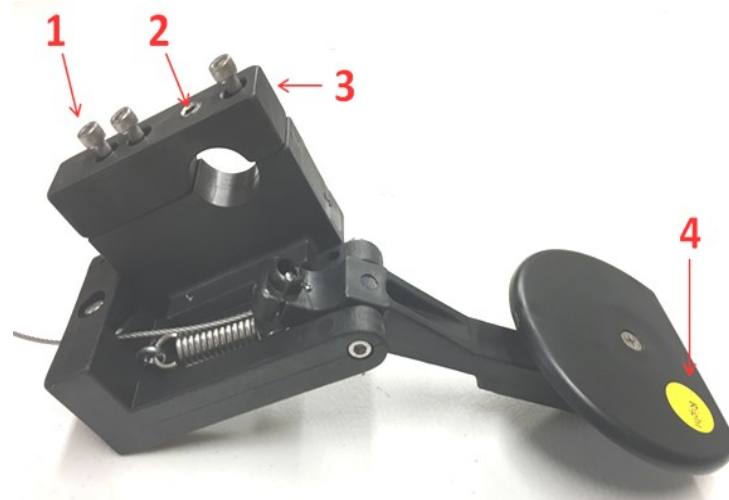
2.3 Lock Pin Assembly Breakdown (Lock Assembly)



- 1) Cable Guide
- 2) Set Screw
- 3) Mounting Screw (two per side)
- 4) Cam Clamp
- 5) Lock Pin
- 6) Cable Adjustment Screw
- 7) Guide Screw*

*Do not remove. Not on all kits

2.4 Paddle Assembly Breakdown



- 1) Mounting Screws (three per side)
- 2) Set Screw
- 3) Paddle Clamp
- 4) Left/Right Label

2.5 Override Assembly Breakdown

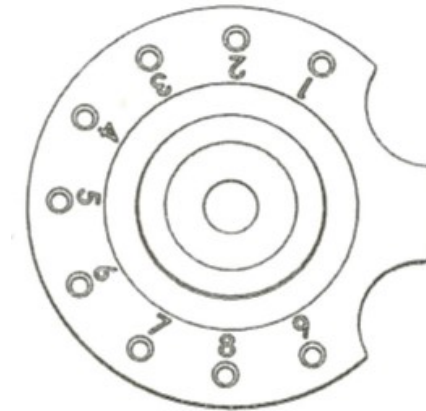


- 1) Override Handle
- 2) Fine Tune Adjuster
- 3) Override Assembly Adjuster
- 4) Safer Lock Kit Model (Not on all kits)
- 5) Adjuster Cover
- 6) Clamp Screw
- 7) Handle Clamp

5. CABLE SETTINGS

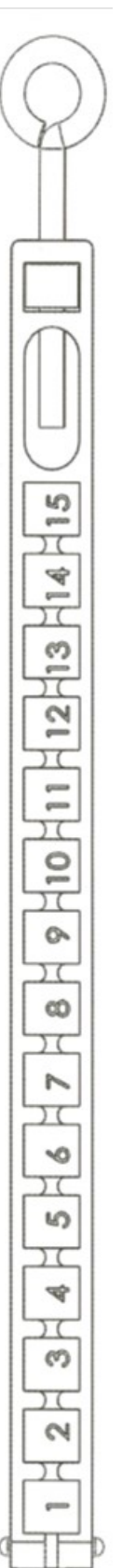
Lock Pin & Override Assembly Cable Adjustment Guide

SAFER-BR-600		HEMI HEIGHT SETTINGS		ADULT HEIGHT SETTINGS	
CHAIR MODEL	BACK HEIGHT	CABLE GUIDE	ADJUSTER SLOT	CABLE GUIDE	ADJUSTER SLOT
Breezy 600	17"			3	13
Breezy 600	17.5"			3	12
Breezy 600	18"			3	11
Breezy 600	18.5"			3	10



LOCK PIN CABLE GUIDE
The bottom hole is # 9

OVERRIDE ADJUSTER



4. TESTING

4.1 Testing the Lock Pin Assemblies and Wheels

1. Before removing the wheelchair from the stand the following safety checks **must** be performed on both sides:
 - a) Pull the Override Handle and release while turning the wheel. Each time the wheel locks you will hear a “pop”.
 - b) Repeat the process until you have heard sixteen pops. (One for each hole on the Hub)



If the Lock Pin does not lock into all sixteen holes, check the following:

- 1) Turn wheel until the Pin is in line with one of the holes on the Hub. With the Handle released, check that the shoulder of the Lock Pin is flush with the Lock Assembly as seen on Page 7.

If the Pin is drawn into the Lock Assembly, the Paddles are mounted too far forward on the frame causing excessive tension on the cable.

Slide Paddle Assembly rearward to relieve tension,(3.1-11)

If the Lock Pin shoulder is flush and still will not engage in all holes, move to next step.

- 2) Loosen the Lock Assembly Set Screw (2.4-2) one quarter turn at a time until the Lock Pin engages in all holes. **LOCK ASSEMBLY SHOULD NOT BE ABLE TO ROCK UP OR DOWN.**

If the Lock Pin shoulder is flush and the Set Screw is not over tightened:

- 3) Loosen the Axle Nut one quarter turn at a time until the Lock Pin engages.

4.2 Test by USING

1. Remove the wheelchair from the stand and place on the floor.
Make sure that the manual wheel locks are not engaged
 - 1) **Push** the chair without squeezing the Override Handles. The wheels should be locked
 - 2) **Push** the chair while squeezing the Override Handles. The wheels should be unlocked allowing the wheelchair to roll as normal
 - 3) **Sit** into the chair to ensure that the wheels unlock once seated
 - 4) **Stand** from the chair while pushing back on the arms to ensure that the wheels lock as soon as weight is removed from the seat

REPEAT THIS PROCESS SEVERAL TIMES.



Use caution when sitting and standing from the chair while testing. If your Safer Lock Kit fails, it is designed to fail in the LOCKED position. However, if not installed properly, the Lock Pin Assembly may not lock into the Hub.

Follow all Safety Guidelines in your Wheelchairs Owners Manual

Contact UPM if your Kit does not work properly after troubleshooting

3. INSTALLATION

3.1 Mounting the Assemblies



If not using a Safer Wheelchair Service Stand (Pg. 15) during installation, see below:

IF AT ALL POSSIBLE, install your Safer Lock Kit with the wheelchair right-side up.

SECURELY block up the wheelchair frame 1-3 feet from the floor, allowing for better access and enabling the wheels to rotate freely.



Your Safer Lock Kit is labeled LEFT or RIGHT as if you were sitting in the wheelchair, (2.4) and is preset for installation at Adult/Standard Height. (2.2) See Page 13 for Hemi Height Cable Settings

READ BEFORE BEGINNING INSTALLATION

WHEELCHAIRS WITH THREADED AXLES FOLLOW STEPS 1-6 (SKIP 7- 11)

WHEELCHAIRS WITH QUICK RELEASE AXLES BEGIN INSTALLATION ON STEP 7 (SKIP 1-6)

1. Take off the rear wheels by removing the outside and inside Nuts on the Axle Bolt. Slide the Axle Bolt out once both Nuts have been removed. **KEEP THE AXLE BOLT Discard the Nuts and Washers.** Replacements are provided.
2. Unpack each side of your Safer Wheel Lock Kit and perform the following:
 - a) Loosen Mounting Screws enough to remove Clamps from the Lock and Paddle Assemblies. (2.3 & 2.4)
 - b) Loosen the Clamp Screw on the Override Assembly enough for the Clamp to spread. (2.5-6)
3. With Set Screw facing the **front** of the chair position the Lock Assembly over the Axle
4. From the **outside**, slide the Axle Bolt through the Lock Assembly and Axle. Use the two Screws to **tightly** secure the Clamp to the Lock Assembly.

Clamp must be flush with the Lock Asby



5. Tighten the Set Screw until it touches the frame and the Lock Assembly is in a fixed position.
DO NOT OVERTIGHTEN- STOP ONCE THE SET SCREW TOUCHES THE FRAME

6. Place the smaller Nut supplied with your kit onto the **inside** Axle and tighten using a 5/8 socket



25. Slide the wheel onto the Axle Bolt.
 - a) Once completely on the Bolt, rotate while pushing the wheel until the Lock Pin inserts into one of the holes on the Hub
 - b) Using a 3/4 socket, tighten the supplied Axle Nut until snug

IF THE WHEEL DOES NOT FREELY SPIN, BACK OFF ON THE NUT USING QUARTER TURNS UNTIL IT IS ABLE TO DO SO



INSTALLATION: BREEZY 600 WITH QUICK RELEASE AXLES

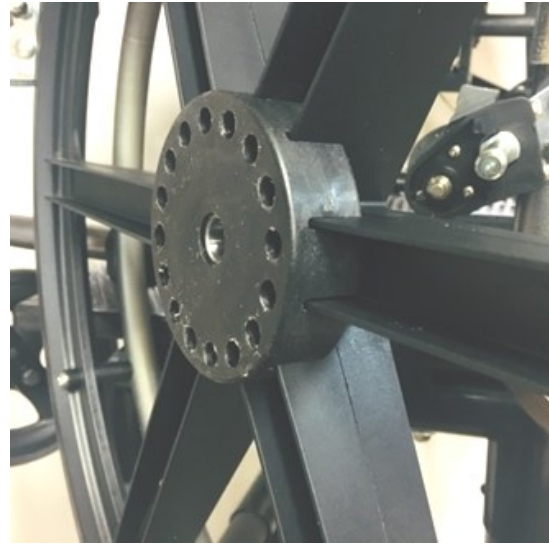
7. Take off the rear wheels by removing the Quick Release Axle Bolts
DISCARD both Quick Release Axle Bolts. Replacements are supplied
8. Unpack each side of your Safer Wheel Lock Kit and perform the following:
 - a) Loosen Mounting Screws enough to remove Clamps from the Lock and Paddle Assemblies. (2.3 & 2.4)
 - b) Loosen the Clamp Screw on the Override Assembly enough for the Clamp to spread. (2.5-6)
9. With Set Screw facing the front of the chair, position the Lock Assembly around the Axle
10. From inside the chair, slide the Axle Bolt through the Lock Assembly and Axle. Use the two Screws to **tightly** secure the Clamp to the Lock Assembly.
Clamp must be flush with the Lock Asby



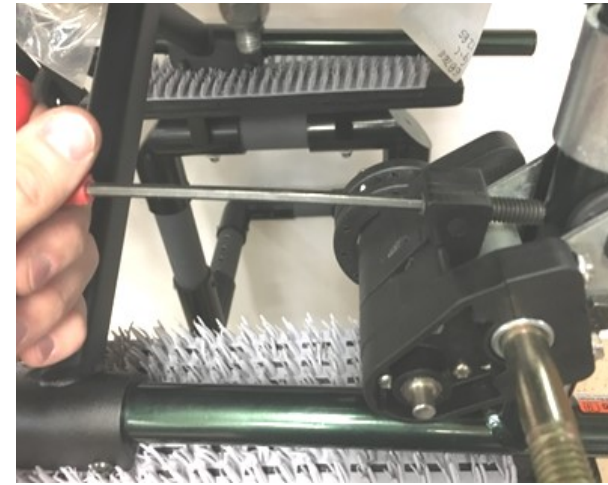
SEE NEXT PAGE FOR SAFETY TESTING BEFORE REMOVING THE WHEELCHAIR FROM STAND



22. Line the Hub slots up with the wheel spokes. Using a Rubber Hammer, **tap** until the Hub is flush and level with the wheel



11. Tighten the Set Screw until it touches the frame and the Lock Assembly is in a fixed position.
DO NOT OVERTIGHTEN- STOP ONCE THE SET SCREW TOUCHES THE FRAME



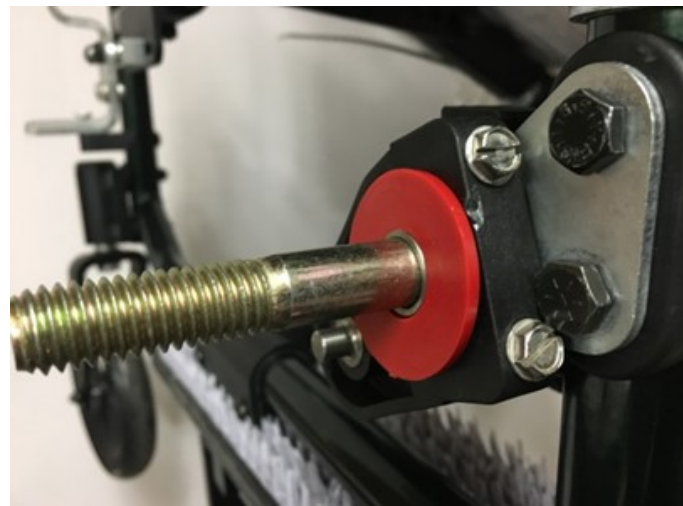
12. Using a 7/16 socket and wrench, remove the Nut and Bolt holding the flip-back arms to the frame.
DISCARD NUT AND BOLT ONCE REMOVED



23. Slide 1 of the 2 Metal Spacers supplied with your kit onto the Axle Bolt



24. Slide 1 of the 2 Black Washers* onto Axle Bolt flush with the Lock Assembly
***RED WASHER SHOWN FOR CONTRAST**



13. Push the supplied Override Pulley Bolt through the arm bracket from the outside
a) Slide the Bushing onto the Bolt large end first

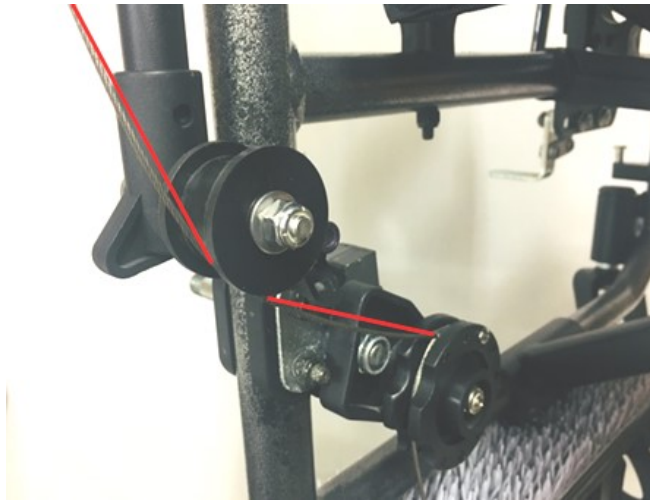


14. Slide the Pulley Wheel over the Bushing, followed by Washer and Nut, then tighten.



15. Run the Cable going to the handle from the top of the Cam Wheel and under the Pulley Wheel

16. Open the Adjuster Cover if slack in the Cable is needed for the Handle Clamp to reach the handle of the chair.
 a) Spread the Clamp and position onto the handle
 b) Tighten the Clamp Screw



18. With Paddle Assembly Cable wrapped under the Cam Wheel, position the Assembly onto the frame behind the cross brace.
 a) Line Paddle Clamp with Assembly from the outside
 b) Thread the three Mounting Screws through Clamp into the Assembly
 c) **DO NOT COMPLETELY TIGHTEN**

19. Slide the Assembly toward front or back until there is about 1" slack in the cable
 a) Paddle Assembly **MUST** be vertically level to have the correct cable tension and to operate properly.



17. Place the Cable End into the Adjuster so that the Handle on the Override is near the angle shown below the close the Cover
 a) While squeezing the Handle the Lock Pin should fully disengage into the Lock Assembly

20. Once the Assembly is level and has the right amount of cable tension
 a) Tighten the three Mounting Screws
 b) Securely Tighten the Set Screw

21. Watch the Lock Pin as the Screw are tightened.
 If the Pin begins to pull into the Lock you will need to slide the Paddle back to relieve cable tension

If fine adjustments are needed
 a) Loosen the Square Nut at the top of the Adjuster
 b) Turn the round Knurled Nut to either tighten or loosen the handle
 c) Once all adjustments have been made, **FIRMLY TIGHTEN** the Square Nut

