

# **MAXX PIVOT PLUS LEGREST**

**(FOR MANUAL AND POWER LEGREST MODELS)**

## **INSTALLATION/SET-UP MANUAL**

**i DEALER:** This manual contains important instructions and safety information related to the installation, set-up and adjustment of our Maxx Pivot Plus Legrests. These instructions are for use only by trained /qualified technical personnel



TRD0438 Rev E



## POWER-POSITIONING SYSTEMS

### **i IMPORTANT!**

The most important link in the delivery chain is the end user. The user must be satisfied with the product in terms of function, safety and aesthetics. No sale is complete unless the end user receives thorough training in all aspects of the care and use of the system. A complete instruction session with your customer is essential.

As a qualified Dealer or Healthcare Professional it is your responsibility to ensure that the seating system is set up properly and safely to meet the specific requirements of the end user.

If you have any questions or concerns regarding the instructions contained in this manual, please contact our **Technical Service Department** for assistance.

**USA** 888-433-6818

**CAN** 800-680-4191

*This manual may not be reproduced or reprinted either partly or completely without previous written consent from Motion Concepts or its statutory representatives.*

*This manual is compiled from the latest specifications and product information available at the time of publication. We reserve the right to make any necessary as they become necessary. Any changes made to our products may cause slight variations between the illustrations and explanations in this manual and the product you have purchased. If you have any questions or concerns regarding the information provided in this manual, please contact our Technical Service Department for assistance.*

## Important Information: Before You Begin!

### Safety Symbols:

Safe and proper installation, set-up and adjustment of your Motion Concepts device depends upon your diligence in following the warnings, cautions and information provided in this Manual.

The symbols below are used throughout all Motion Concepts' manuals to identify warnings, cautions and important notes. It is very important for you to read and understand them completely.



**DANGER!** Danger indicates a potentially hazardous situation which, if not avoided, could result in significant non-reversible injury or death.



**WARNING!** Warning indicates a potentially hazardous situation which, if not avoided, could result in serious personal injury, compromised safety or device damage.



**CAUTION!** Caution indicates a potentially hazardous situation which, if not avoided, may result in a minor injury and/or minor device damage.



**IMPORTANT!** Indicates important information regarding the operation of your power positioning system, or a hazardous situation that could result in damage to property if not avoided, or both.

Please refer to **Section 2.0** of the **Motion Concepts Owner's Manual (TRD0000)** (*provided separately*) for detailed safety information related to our Motion Concepts power positioning system and accessories

### Training

Installation and set-up of the Maxx Pivot Plus Center Mount Legrest must only be done by a trained technician or healthcare professional. If you are not certified as an installer, please arrange immediately for training by a Motion Concepts technician or sales agent who has been certified to teach the installation and set-up of the Maxx Pivot Plus Legrest. Every effort will be made to meet your training needs.

**Note:** *Before proceeding with the installation/set-up, ensure that no pages are missing from this manual.*

### Hardware

Unless otherwise indicated, all the hardware required to complete the installation will be provided by Motion Concepts. Please refer to the **Installation/Assembly Overview Drawing in Section 1.0** to determine the size, type and configuration of the hardware.



**WARNING! Do Not Substitute Hardware**

• *All hardware used by Motion Concepts in the assembly and installation of our Power Positioning Systems is high strength. Use only the hardware supplied with your seating system.*

### Tools

The following tools are required to complete the installation, adjustment & set-up:

- Wrench and/or Socket Set (7/16", 11mm); Hex Keys: 4mm, 5mm; Standard Screwdriver

## General Safety Warnings!



**IMPORTANT!** Motion Concepts disclaims all responsibility for any personal injury or damage to property that occurs as a result of improper or unsafe use of the power positioning system or the wheelchair on which the system is installed.



**WARNING! Danger of injury if wheelchair and/or power positioning system is used in any other way than the purpose described in this manual!**

- *Only ever use the wheelchair/seating system in accordance with the instructions provided in this Owners Manual and your powerbase Owners/Operators Manual*
- *Pay strict attention to all safety information provided.*

## General Safety Warnings! (...cont'd)



### **WARNING! Risk of Serious Injury or Device Damage**

The following guidelines should be adhered to while operating your Motion Concepts power positioning system to avoid serious injury or device damage, and ensure safe operation:

- *ALWAYS check your surroundings before operating your Motion Concepts seating system. Make sure that the way is clear of obstructions throughout the full range of travel before operating any seat positioning function.*
- *NEVER operate the tilt or elevate function while underneath a fixed object such as a table or desk*
- *NEVER operate the powered legrest function while underneath a table, desk, or other obstruction.*
- *NEVER use your legrest footplates or foot platform to open doors or move obstructions.*
- *NEVER operate your power positioning system while driving your wheelchair.*
- *NEVER allow items such as posture belts, backpacks, coats, etc... to become trapped under your seat while in a tilted, or elevated position, OR under your power legrests while extended, otherwise damage to the system may occur.*



### **CAUTION! Risk of Injury or Device Damage or Property Damage**

Operating the wheelchair with insufficient ground clearance between the footplates and the ground/floor may cause injury, device damage or property damage.

- *While the wheelchair is in motion, ALWAYS maintain a minimum ground clearance of 3 inches, or the minimum ground clearance stated by wheelchair base manufacture (whichever is greater).*
- *If necessary, elevate the front rigging or tilt the seat to achieve the proper ground clearance prior to driving the wheelchair.*
- *If the wheelchair dips forward and the footplates touch the ground while in motion, please contact your Service Provider for immediate assistance and/or inspection; Avoid use of the wheelchair until corrected.*



### **WARNING! Risk of serious injury due to crushing or pinching.**

- *Be mindful of potential pinch points caused by moving parts. Use caution when operating your power positioning system, especially around children and pets.*
- *Keep hands, fingers or limbs clear of any articulating mechanisms/linkages on your positioning system.*



### **WARNING! Risk of injury or damage**

- *Following any legrest adjustment ALWAYS inspect the wheelchair to ensure the front rigging DOES NOT interfere with the wheelchair chassis or front casters, and that the footplates do not collide with the ground.*



### **WARNING! Risk of Serious Injury or Device Damage.**

Any sudden or gradual deterioration in the function/performance of your power positioning system (i.e. increased actuator motor/gearbox noise, rattling, sloppiness, etc...) must be reported to your Dealer immediately.

- *A complete wheelchair inspection by a qualified technician is recommended to ensure there is no unusual wear and tear, or physical damage that requires servicing and/or repair.*



### **WARNING! Accidental activation of wheelchair caused by pets, children, etc. may result in serious injury or damage.**

- *ALWAYS turn power off when around pets and/or children to prevent unintended movement.*



### **DANGER! Risk of Death, Significant Injury or Device Damage when travelling on an incline.**

- *When travelling up or down a ramp/incline, NEVER attempt to drive with power elevating leg rests in the fully extended position*



### **DANGER! Risk of Injury, Damage or Death**

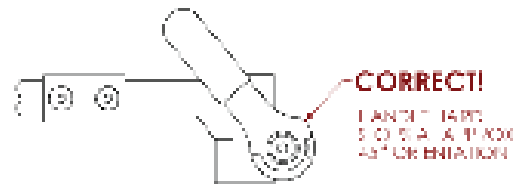
Improper set-up, service, adjustment or programming may result in injury, damage or death.

- *A Qualified Technician MUST set-up, service and program the wheelchair/power positioning system.*
- *DO NOT allow non-qualified technicians to perform any service repairs, modifications or adjustments on your wheelchair/power positioning system.*
- *Turn off power BEFORE adjusting or servicing the wheelchair/power positioning system.*
- *Ensure that all hardware is securely tightened after set-up, or following any maintenance or adjustments.*

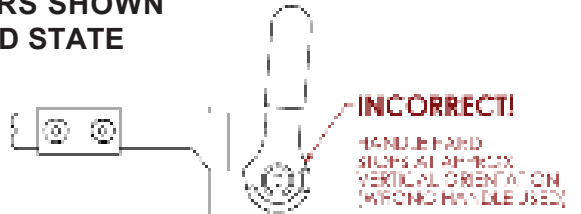
## 1.0 Assembly/Overview Drawings

### Adjustable Depth Maxx Cam-Lock Legrest Receivers

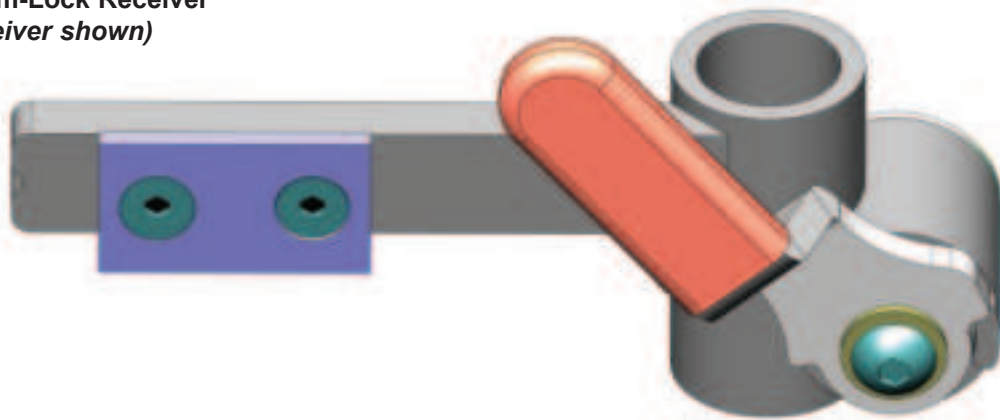
**IMPORTANT!** Ensure the locking lever is installed as indicated



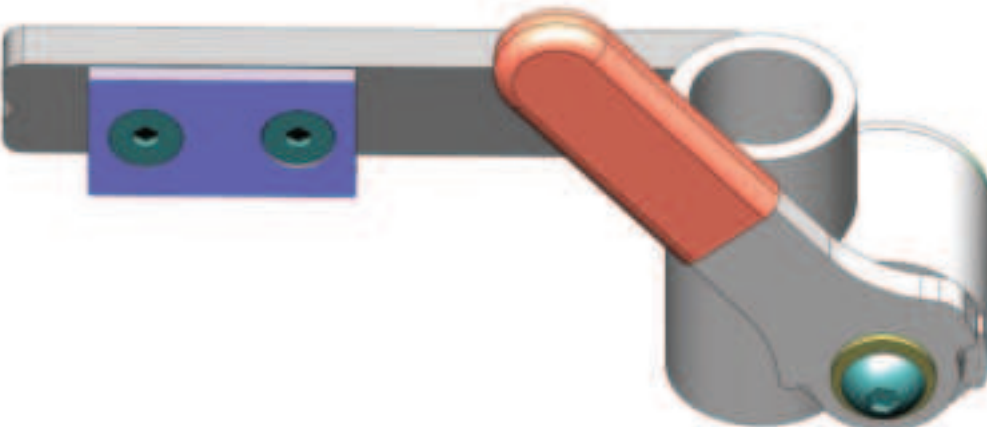
**BOTH RECEIVERS SHOWN  
IN UNLOCKED STATE**



**STRAIGHT Cam-Lock Receiver**  
*(right receiver shown)*



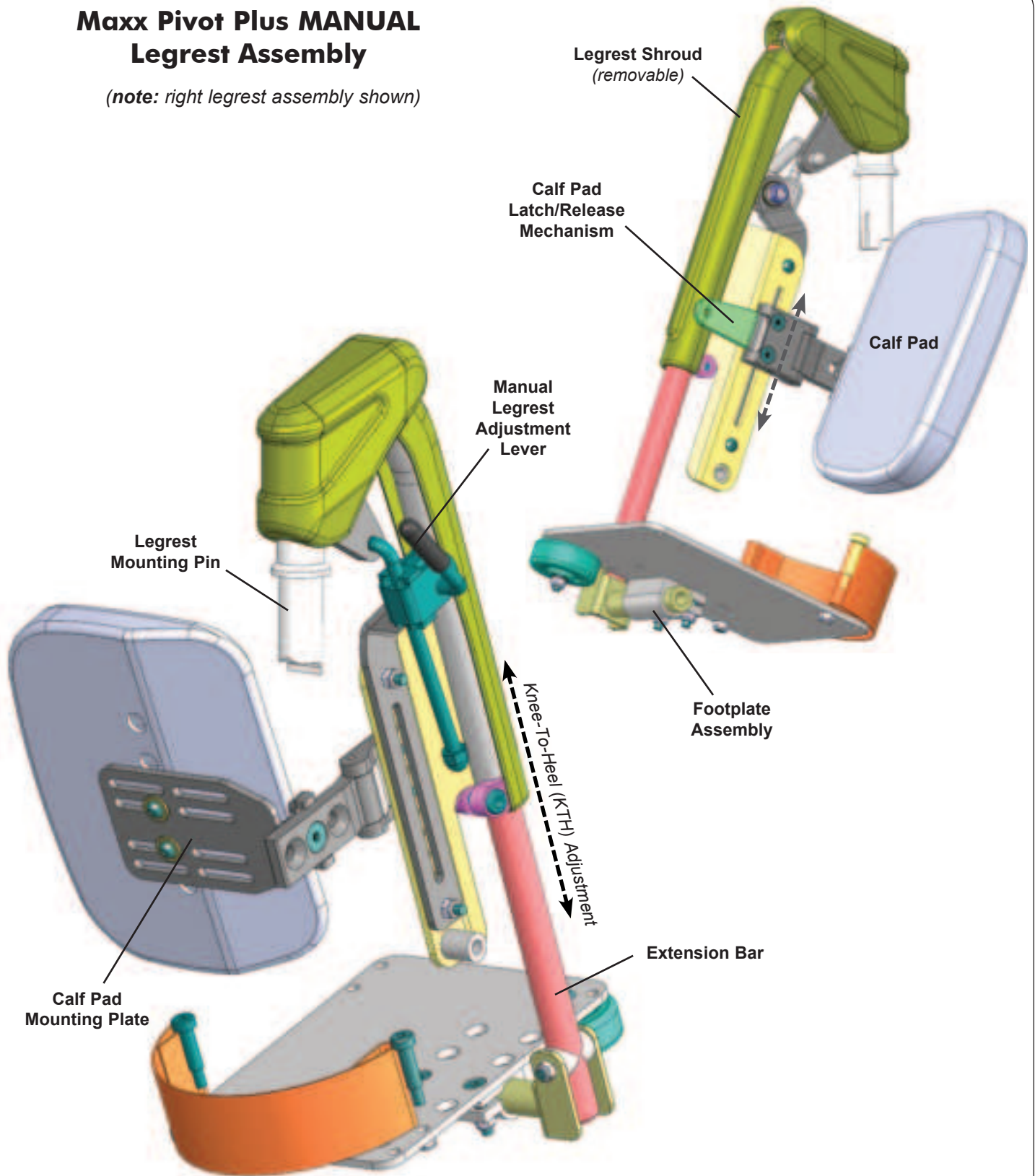
**OFFSET Cam-Lock Receiver**  
*(right receiver shown)*



## 1.0 Assembly/Overview Drawings

### Maxx Pivot Plus MANUAL Legrest Assembly

(note: right legrest assembly shown)

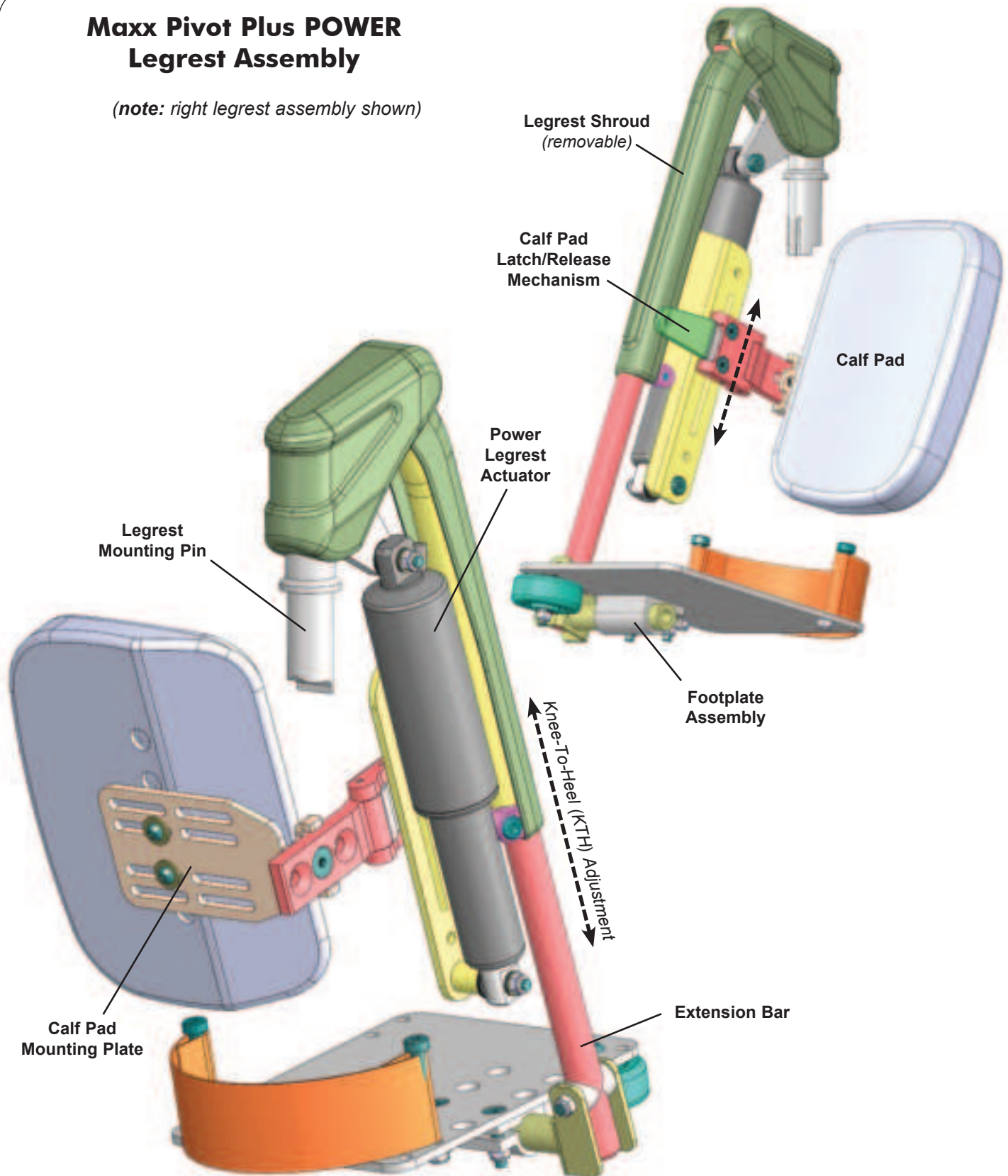




## 1.0 Assembly/Overview Drawings

### Maxx Pivot Plus POWER Legrest Assembly

(note: right legrest assembly shown)



## 1.0 Assembly/Overview Drawings

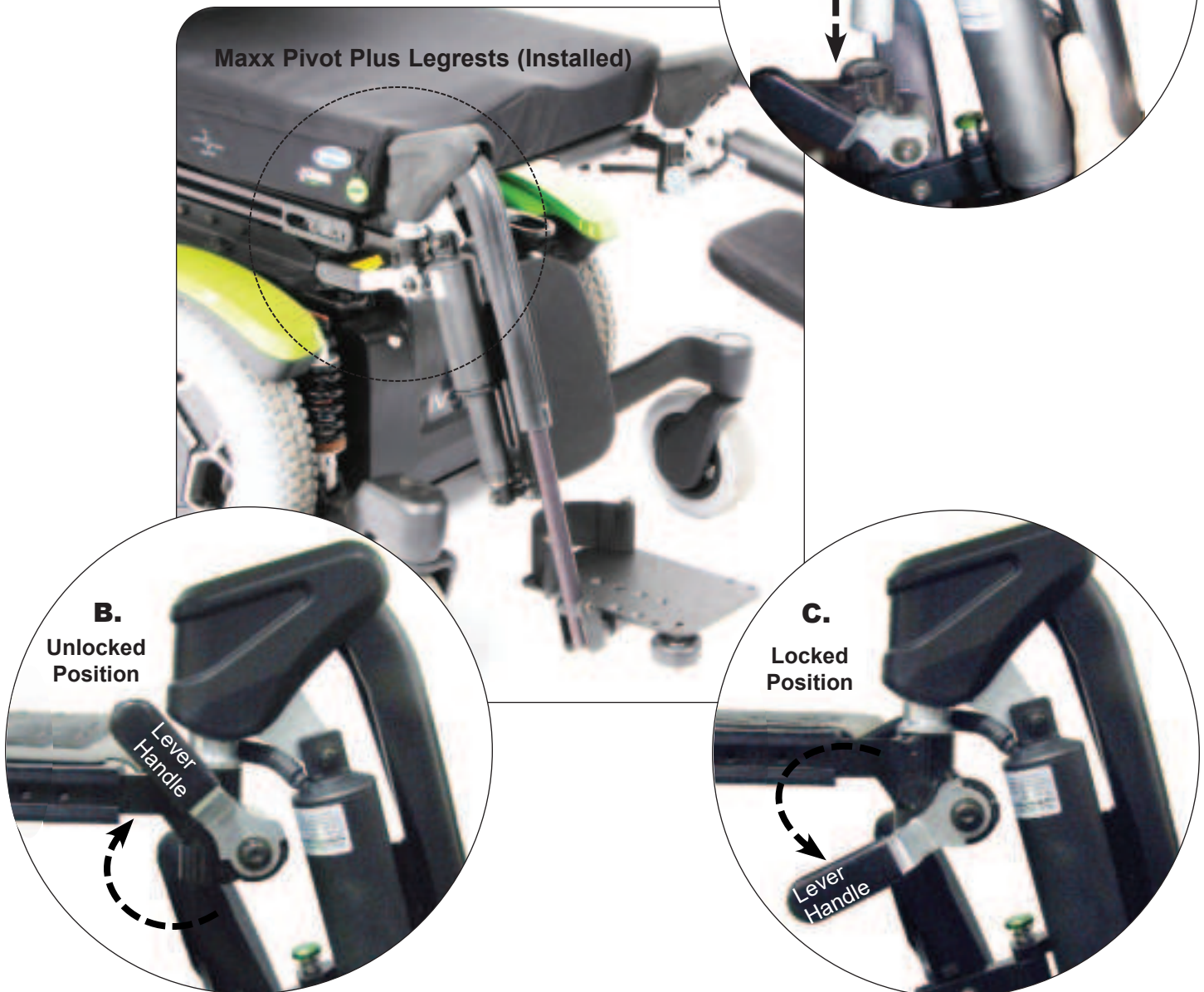
### 2.1 Installing the Maxx Pivot Plus Legrest

**Legrest Installation:** (Refer to images A, B and C below)

2.1.1 Place the lever handle in the upright (unlocked) position.

2.1.2 Insert the mounting pin into the legrest receiver and lower the cam lever to lock the legrest into position.

**Note:** The beveled face of the mounting pin will align with the cam-lock and secure the Maxx PPL into place.

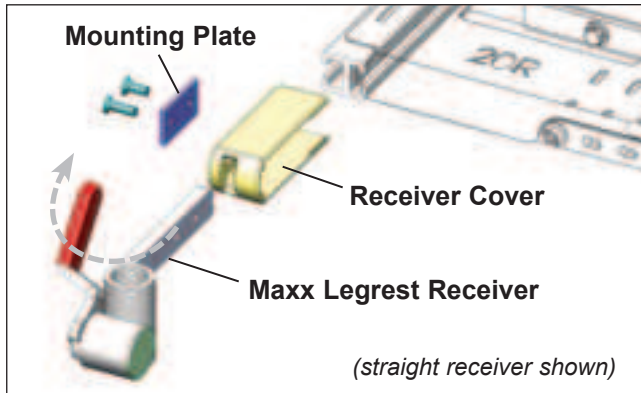




## 2.0 Maxx Pivot Plus Legrest Installation & Set-Up

### 2.2 Legrest Depth Adjustment

The Maxx style cam-lock legrest receivers are available in straight or offset styles. Each legrest receiver assembly is designed to provide up to 1.5" (40mm) of independent fore/aft depth adjustment via the slotted channel in the receiver cover.



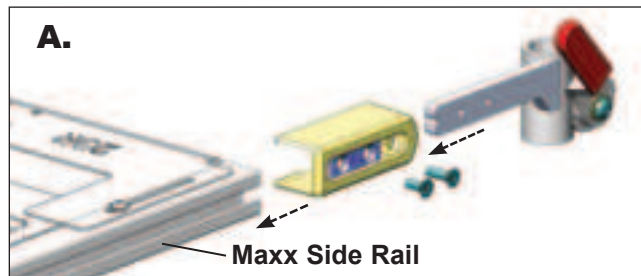
#### Maxx Legrest Receiver Installation & Adjustment:

*Tools Required: 4mm hex key*

*Complete the following instructions separately for each Maxx legrest receiver.*

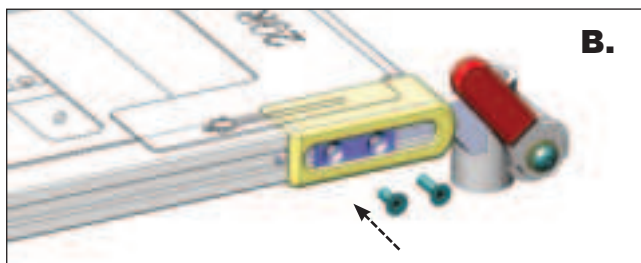
2.2.1. To install/assemble the legrest receiver, insert the mounting plate inside the receiver cover (**A**), then slide the receiver cover overtop of the Maxx side rail.

**Note:** the receiver cover is installed over the Maxx side rail and under the seat pan



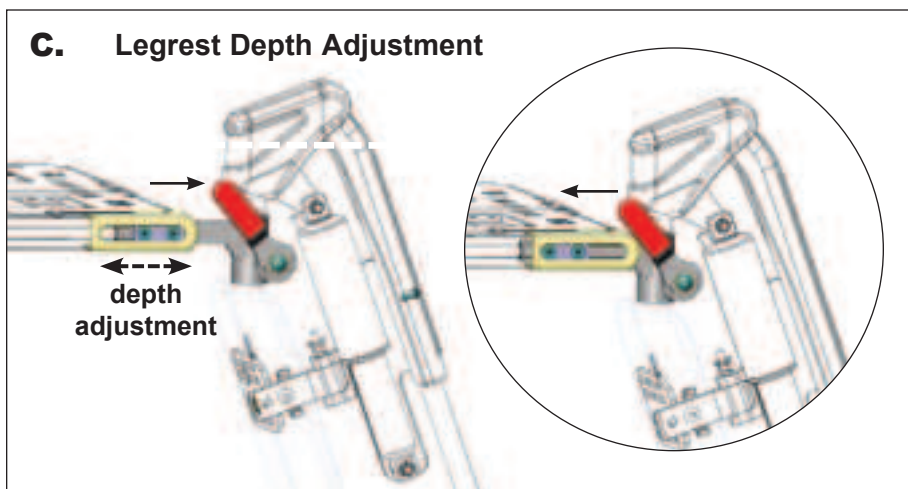
2.2.2 Install the Maxx legrest receiver into the opening (slot) at the front of the receiver cover, and align the threaded holes in the legrest receiver with the holes in the mounting plate.

2.2.3 Secure the mounting plate to the legrest receiver using the mounting hardware (screws x2) provided (**B**).



2.2.4 To adjust the depth of the legrest receiver, loosen both mounting screws and slide the receiver inward/outward along the slot in the receiver cover (**C**).

2.2.5 Following any adjustment, always ensure the mounting screws are fully secure/tighten.



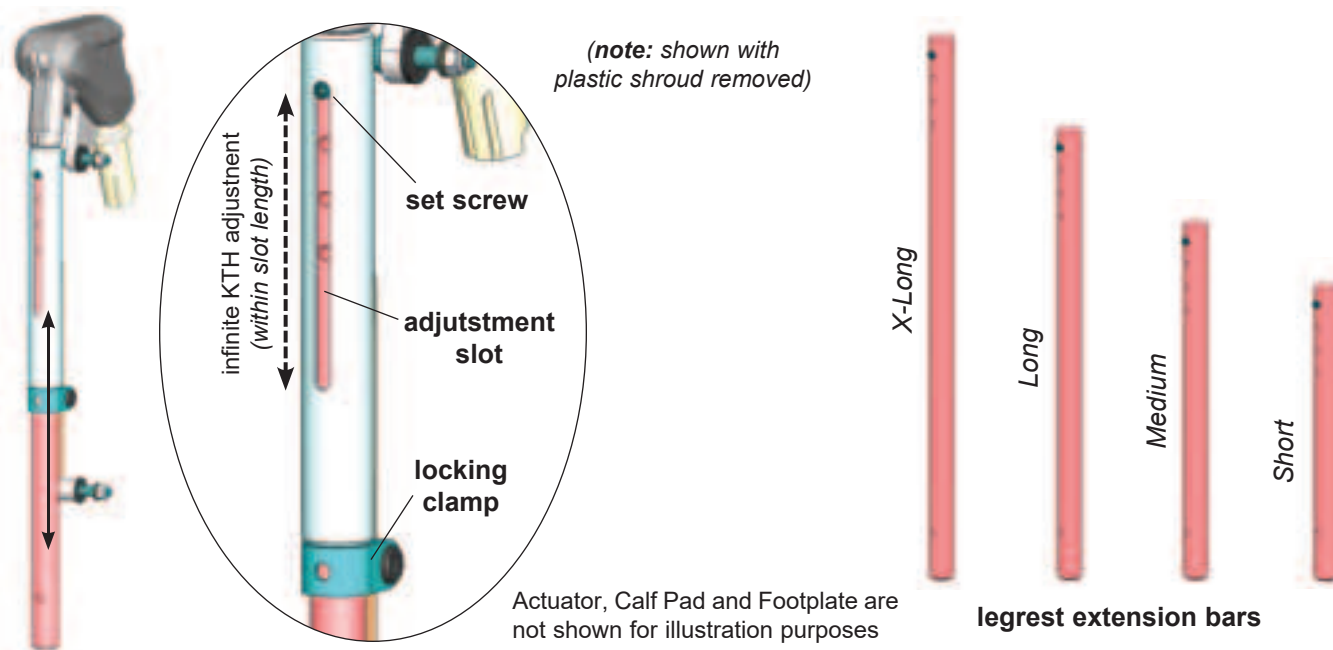
## 2.0 Maxx Pivot Plus Legrest Installation & Set-Up

### 2.3 Legrest Extension Bar: Knee-to-Heel (KTH) Adjustments

**i NOTE:** Your legrest has been factory pre-assembled using the appropriate length extension bar needed to achieve the KTH Length requested at the time of order. If at any time you require a different sized extension bar, please contact our Customer Service Department for assistance

Each legrest extension bar is independently adjustable to accommodate a wide range of knee-to-heel (KTH) lengths. The set screw slides up and down inside the adjustment slot on the upper legrest housing to allow infinite KTH adjustment within the slot length. There are four extension bar lengths available to accommodate a KTH range from 8½" - 20" (22-51cm). The adjustment range for each individual extension bar is as follows:

Short: 8½ - 12" (22-31cm), Med: 10 - 14" (26-36cm) Long: 13 - 17" (33-43cm) X-Long: 16 - 20" (41-51cm)



#### Adjusting the KTH Length: (Tools Required: 5mm hex key)

**Note:** When possible, the client should be seated in the chair during the legrest set-up/ KTH adjustment.

2.3.1. Working on one legrest at a time, loosen the locking clamp assembly so that the legrest extension bar will slide freely up and down.

2.3.2. Adjust the legrest (extension bar) to the desired KTH Length\*, then retighten the clamp assembly to secure the legrest extension bar into place.

**\*Note:** The final KTH length may be affected by the set-up/angle of the footplates. Additional fine-tune KTH adjustments may be required following the final footplate set-up. Refer to **Section 2.4** for footplate adjustments.



#### **WARNING! Risk of Serious Injury or Damage**

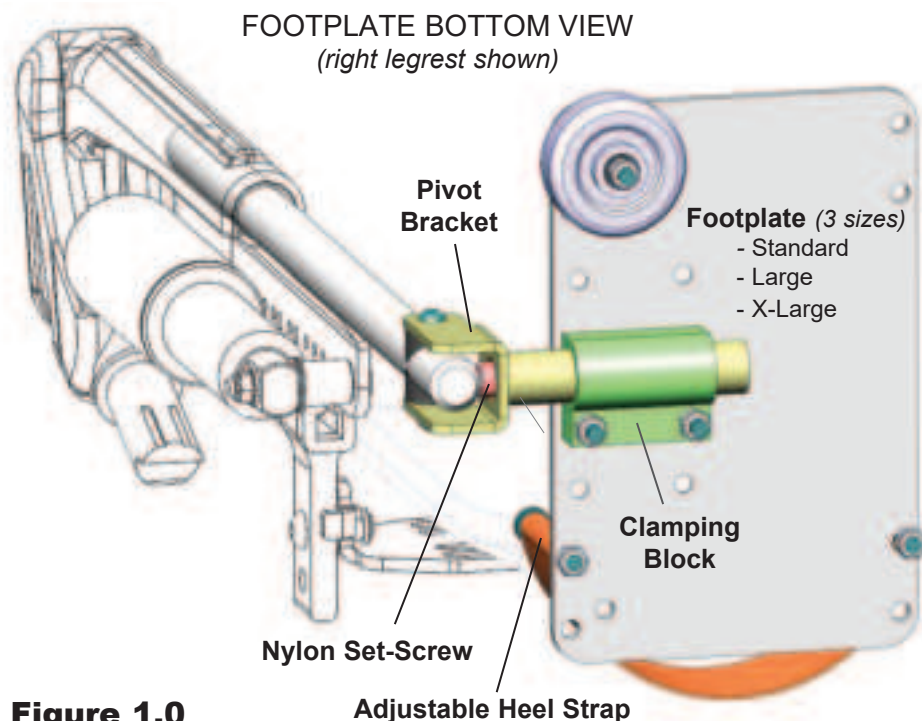
Operating the wheelchair with insufficient ground clearance between the footplates and the ground/floor may cause serious injury or property damage.

- While the wheelchair is in motion, ALWAYS maintain a minimum ground clearance of 3 inches, or the minimum ground clearance stated by wheelchair base manufacture (whichever is greater).
- If necessary, elevate the front rigging or tilt seat to achieve proper ground clearance prior to driving wheelchair.
- Test to ensure the wheelchair does not dip forward and allow the footplates to touch the ground while it is in motion. Make further adjustments when necessary.

## 2.0 Maxx Pivot Plus Legrest Installation & Set-Up

### 2.4 Footplate Adjustments

Our footplates are available in 3 sizes and offer multiple independent adjustments to achieve a wide range of angles and, depending on the client's needs. Please refer to **Figure 1.0** and the additional images below for an illustration of the available footplate adjustments.



**Figure 1.0**

#### Footplate Adjustments:

*Tools Required: 4mm hex key, 7/16" (12mm) wrench, standard screwdriver*

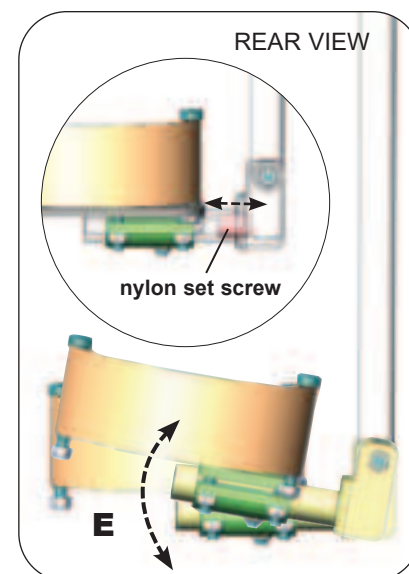
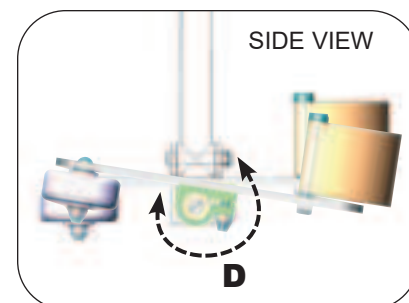
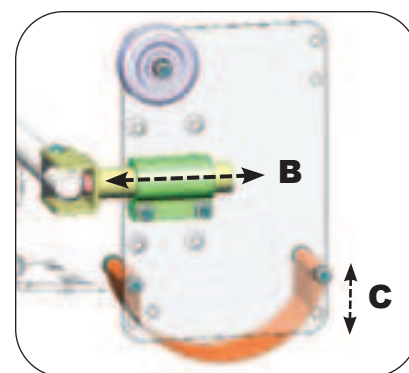
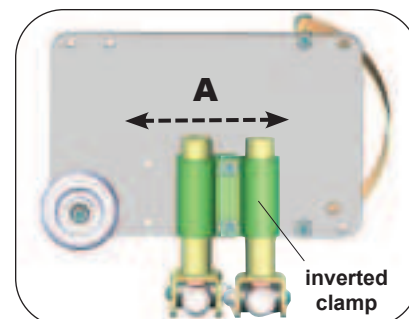
2.4.1 By altering the mounting position\* of the clamping block (**A**), the footplate can be adjusted forward or backward (relative to the legrest extension tube) in 1" (26mm) increments. (*\*note: the clamping block can also be inverted (rotated 180 degrees), in order to achieve a variation in fore/aft adjustment*).

2.4.2 By loosening the clamping block, the entire footplate can be adjusted inward or outward (in relation to the extension tube) along the pivot bracket post (**B**).

2.4.3 The heel strap position can be adjusted front to back as necessary via mounting holes in the footplate (**C**); Adjustments are in 1" (26mm) intervals.

2.4.4 The footplate angle (front to back) can be adjusted by loosening the clamping block and rotating the clamp around the pivot bracket post (**D**).

2.4.5 The lateral (side-to-side) footplate angle can be adjusted\*\* via the nylon set-screw located inside the pivot bracket (**E**). By adjusting the set screw depth, the footplate angle can be adjusted to achieve an angle greater than or less than 90 degrees as needed. (*\*\*note: set-screw adjustment requires a standard slot screwdriver*).



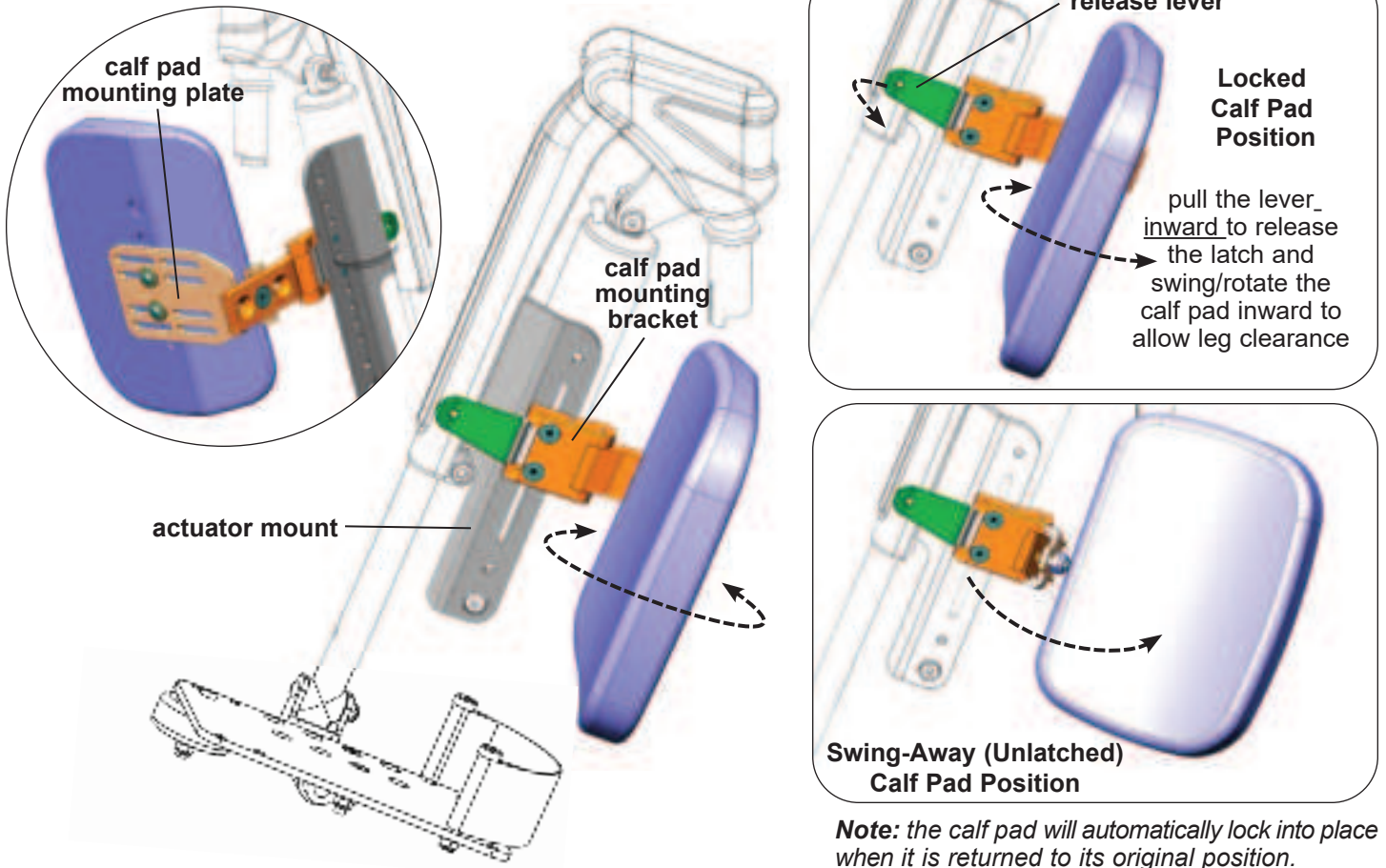


## 2.0 Maxx Pivot Plus Legrest Installation & Set-Up

### 2.5 Calf Pad Set-Up/Adjustments:

The curved calf pads on the Maxx Legrest offer a full range of independent adjustment to ensure a high level of comfort for the end user. A lock/release mechanism (lever) allows each calf pad to be swivelled around the legrest in order to improve leg clearance during transfers in and out of the wheelchair. Refer to **Figure 2.0**, along with the additional images/instructions provide below, for a summary of the various calf pad adjustments.

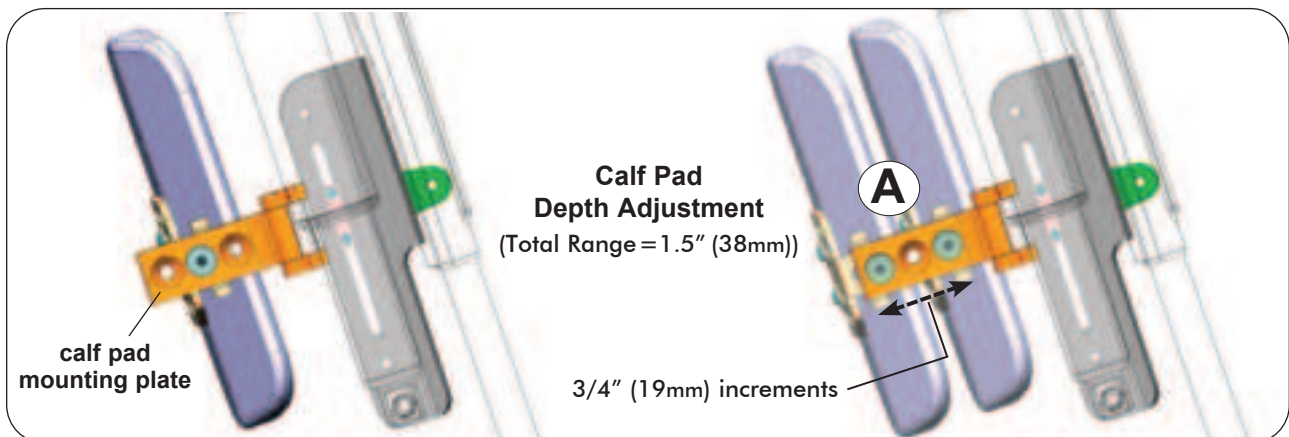
**Figure 2.0**



#### I. Independent Calf Pad Adjustments:

*Tools Required: 4mm/5mm hex key*

2.5.1. The depth of each calf pad can be adjusted independently, relative to the legrest extension tube. The calf pad mounting plate can be mounted in one of three optional positions along the calf pad mounting bracket (**A**).

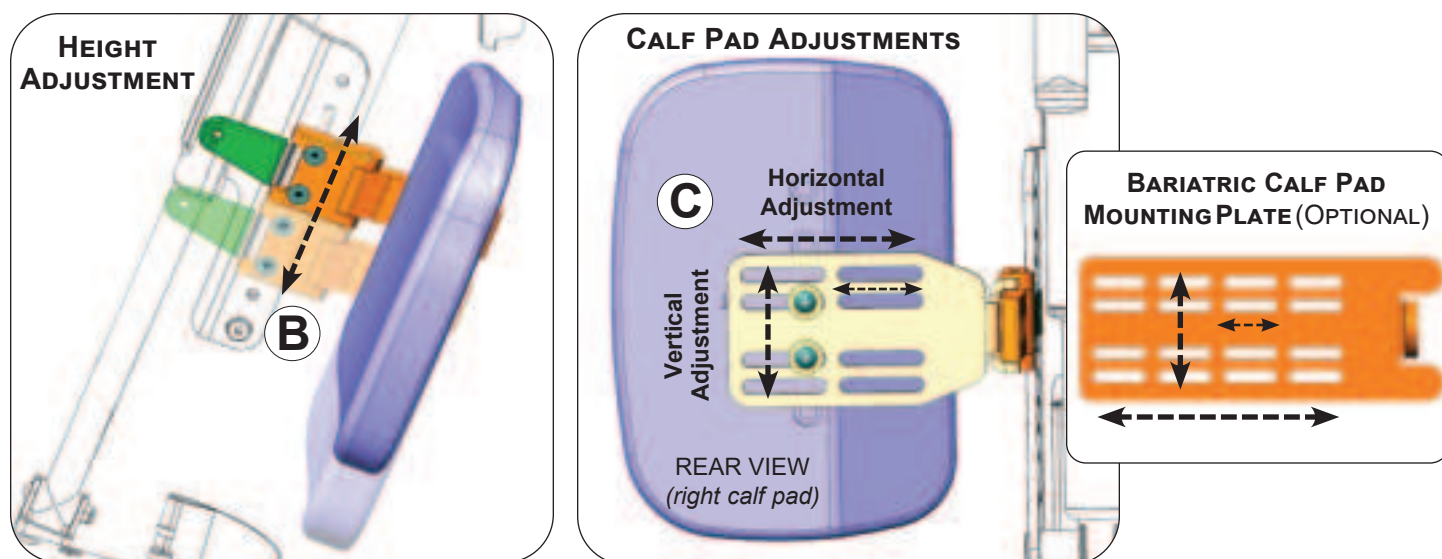




## 2.0 Maxx Pivot Plus Legrest Installation & Set-Up

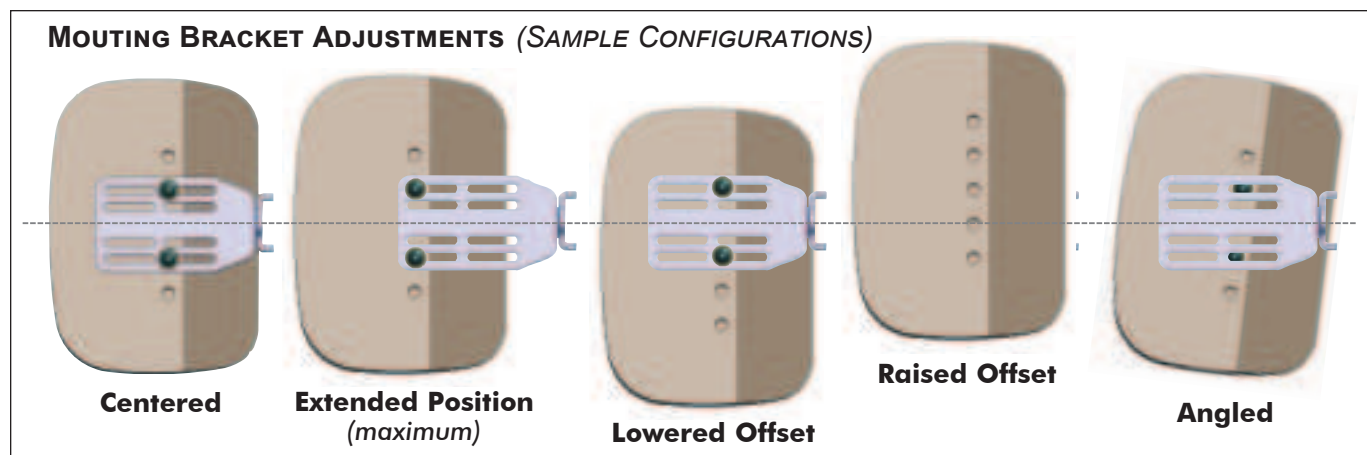
2.5.2. Altering the mounting position of the calf pad mounting plate on the actuator mount, will adjust the height of the calf pad up or down relative to the footplate (B).

2.5.3. By changing the screw/slot positions in the mounting bracket, and/or by changing the mounting hole locations on the calf pad itself, each pad can be independently adjusted to meet the specific needs of the end user (C). (See also **Calf Pad Mounting Bracket Adjustments** below)



### II. Calf Pad Mounting Plate Adjustments:

2.5.4. The calf pads may be adjusted independently on their respective mounting plate using the hardware at the rear of the calf pads. Calf pads can be adjusted (for depth, height and angle) to achieve a variety of different configurations. Refer to sample configurations illustrated below.



If you have any questions or concerns regarding the programming instructions contained in this manual, please contact our **Technical Service Department** for assistance.

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## NOTES:





[www.motionconcepts.com](http://www.motionconcepts.com)

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