

# INFIELD **RASCAL**® **ROOKIE**



## ASSEMBLY INSTRUCTIONS **INFIELD RASCAL**® **ROOKIE**

ONLY FRAME SHOWN. OPTIONAL ATTACHMENT ASSEMBLY INSTRUCTIONS BEGIN ON PG. 6

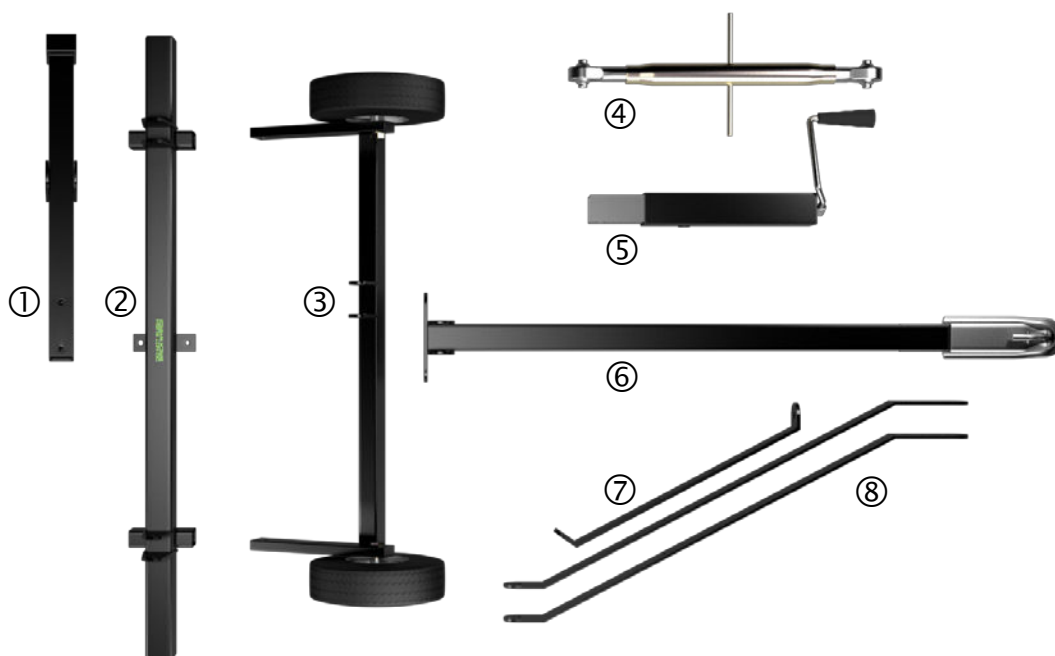


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## PARTS INCLUDED

- ① REAR MAST
- ② DRAG FRAME
- ③ WHEEL FRAME
- ④ TOP LINK
- ⑤ SQUARE HAND JACK
- ⑥ TONGUE BEAM
- ⑦ CENTER BRACE
- ⑧ ANGLED BRACES (2 QTY)



## HARDWARE INCLUDED

- |                           |                          |                  |
|---------------------------|--------------------------|------------------|
| (4) 2" x 3/4" BOLTS       | (16) 1 3/8" FLAT WASHERS | (8) 3/4" NUTS    |
| (4) 4" x 3/4" BOLTS       | (2) 3/4" FLAT WASHERS    | (1) 9/16" NUT    |
| (1) 4" x 9/16" BOLT       | (8) 2" FLAT WASHERS      | (2) 1 1/16" NUTS |
| (2) 4 1/2" x 1 1/8" BOLTS | (8) 3/4" LOCK WASHERS    | 7" HITCH PIN     |
|                           | (1) 9/16" LOCK WASHER    | 5 1/2" HITCH PIN |

## TOOLS NEEDED

- 3/4" WRENCH & SOCKET (OR TWO WRENCHES)
- 9/16" WRENCH & SOCKET
- 1 1/8" WRENCH OR SOCKET
- 1 1/16" WRENCH OR SOCKET
- OPTIONAL: RUBBER Mallet
- HIGH TEMP GREASE FOR WHEEL BEARINGS



**NOTE: TO ENSURE PROPER ASSEMBLY & SETUP, CAREFULLY FOLLOW THE INSTRUCTIONS IN THIS GUIDE!**

### SAFETY PRECAUTIONS:

**NOTE: FAILURE TO HEED THE FOLLOWING SAFETY PRECAUTIONS MAY RESULT IN PROPERTY DAMAGE, INJURY, OR EVEN DEATH OF THE OPERATOR AND/OR BYSTANDERS. ALWAYS OPERATE TOW VEHICLES AND TOOLS WITH CAUTION.**

- DO NOT operate tow vehicle or tool under the influence of alcohol, drugs, or under any other impaired state.
- DO NOT operate tow vehicle or tool with any riders, and ALWAYS operate your tow vehicle while safely seated.
- KEEP ALL HANDS AND FEET CLEAR of tool during transport and use.
- USE CAUTION when storing & decoupling this tool. Adjust square hand jack to keep tool from tipping or shifting.
- WATCH for pinch point decals and keep hands and feet clear!
- USE CAUTION when connecting this tool. TURN OFF tow vehicle before attempting to attach tool.
- **AND ALWAYS STAND CLEAR OF TOOL WHILE TOW VEHICLE IS RUNNING!**

# 1)

After carefully lifting the parts to your RASCAL® ROOKIE out of the boxes, make sure that all the pieces are present using the included list. Locate the top and bottom of the wheel and drag frame by making sure that the smaller hole on the rear flat bracket is on the bottom. Alternatively, ensure that the decals are face-up on the back of the drag frame. [fig. A]

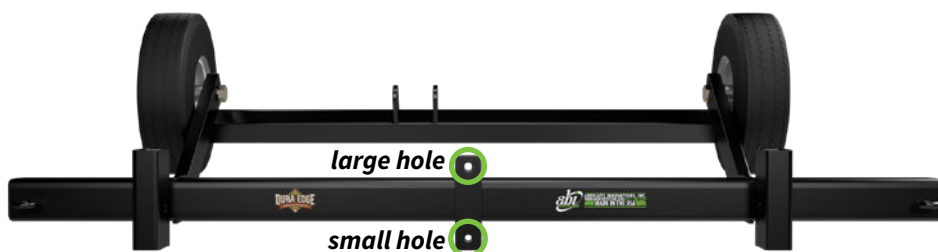


FIGURE A

# 2)

Remove the two large bolts that connect the wheel frame and drag frame with  $1\frac{1}{8}$ " &  $1\frac{1}{16}$ " wrenches or sockets. Set the bolts and hardware aside.

Then, locate the end of each angled brace with only one hole and align that end inside the drag frame ears. Make sure you orient the angled braces ABOVE the wheel frame. [fig. B]

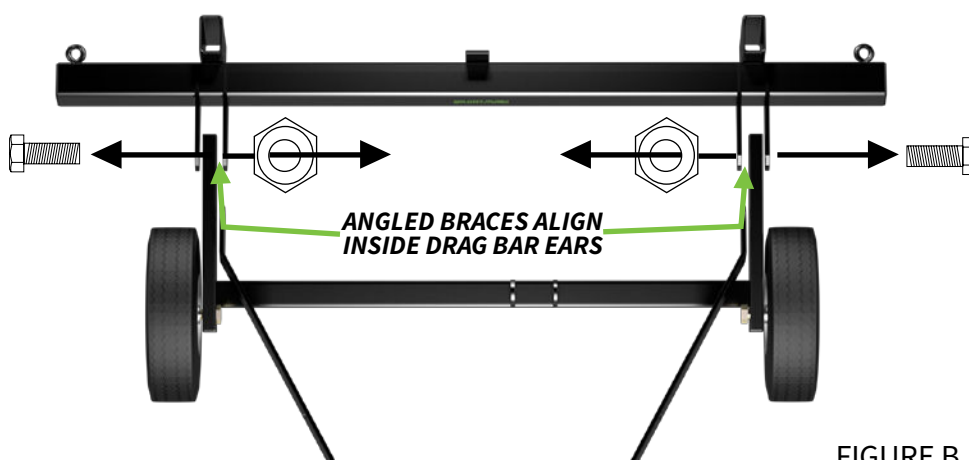


FIGURE B

# 3)

Thread a  $4\frac{1}{2}$ " frame bolt (the bolts removed in step 2) from the outside of the unit through these components in order:

- 2" flat washer
- the outside ear of the drag frame
- 2" flat washer
- the wheel frame
- the end of angled brace
- 2" flat washer
- the inside ear of the drag frame
- 2" flat washer
- $1\frac{1}{16}$ " nut.

Repeat for the opposite side. Tighten both sides until the ears **just** begin to flex. [fig. C]

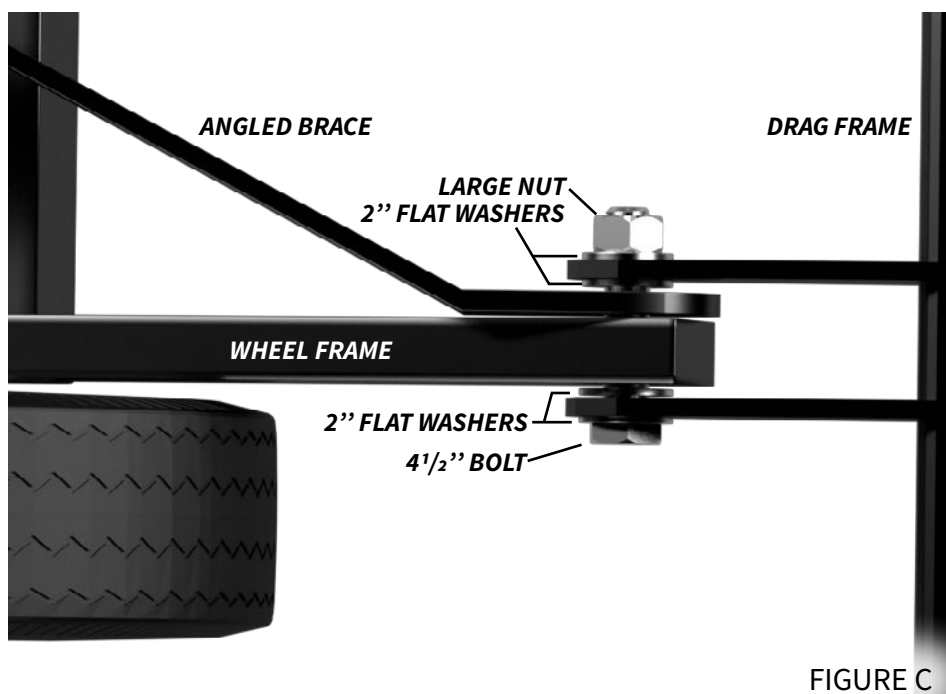


FIGURE C

# 4)

Align the cross brace with both angled braces' middle holes. Thread a 3/4" x 2" bolt & 1 3/8" flat washer through each angled brace and into the ends of the cross brace. Secure on the inside of the cross brace with a 1 3/8" flat washer, 3/4" lock washer, and 3/4" nut. **Do not fully tighten bolts until specified.** [fig. D]

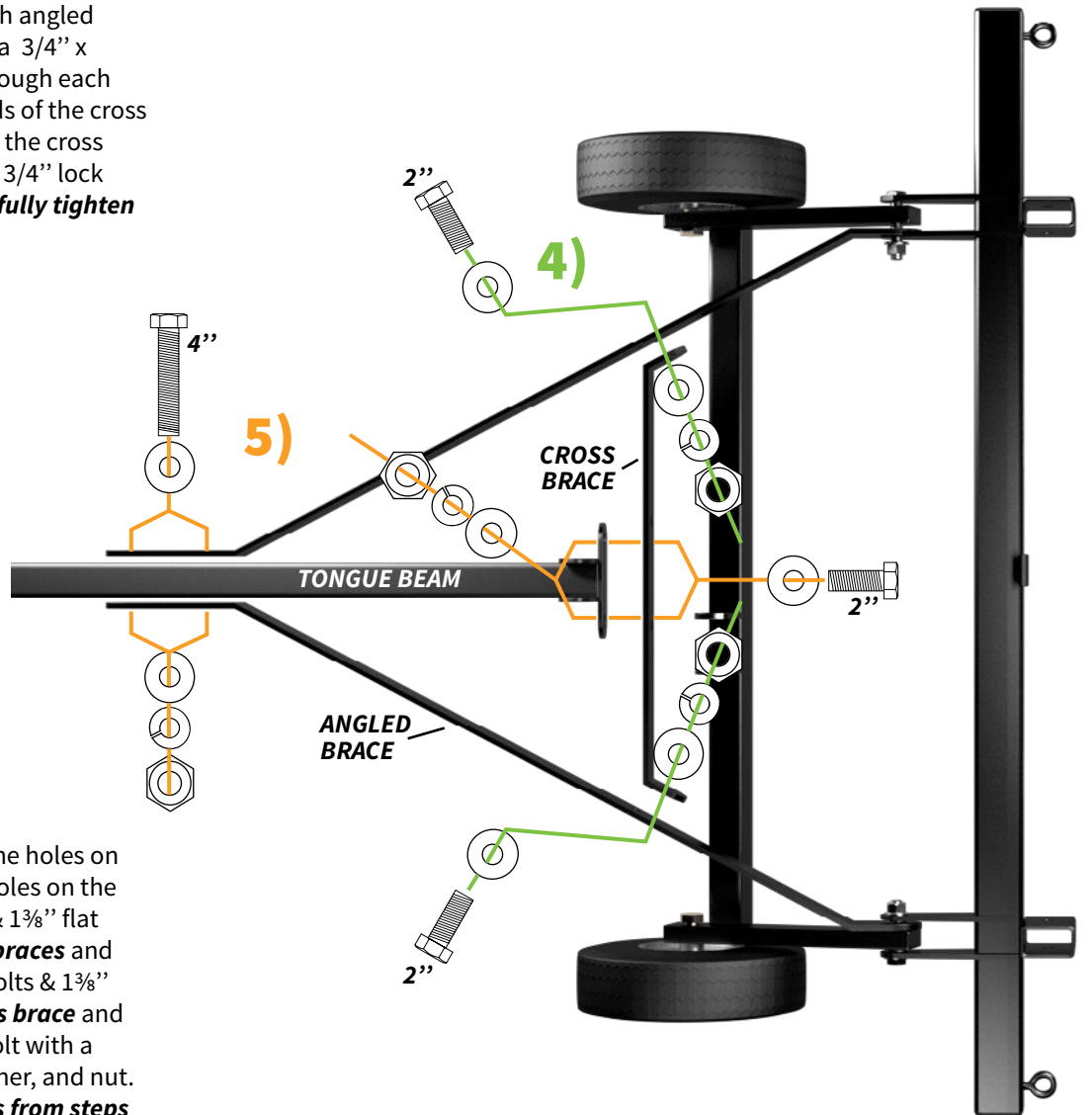


FIGURE D

# 5)

Align the tongue beam with the holes on both angled braces and the holes on the cross brace. Thread 4" bolts & 1 3/8" flat washers through the **angled braces** and the **tongue beam**. Insert 2" bolts & 1 3/8" flat washers through the **cross brace** and **tongue beam**. Secure each bolt with a 1 3/8" flat washer, 3/4" lock washer, and nut. **Tighten all the bolts and nuts from steps 4 & 5 at this time**, carefully making sure each seats properly, using 3/4" wrenches or sockets. [fig. D]

# 6)

Install the square hand jack to the center of the wheel frame using a 4" bolt, (2) 1 3/8" flat washers, 3/4" lock washer, and nut. **Do not fully tighten bolts until specified.** [fig. E]



FIGURE E

# 7)

Flip the drag frame up and over so the rear bracket and attachment points are facing upwards. Align the rear mast with the corresponding holes, and attach using the correct hardware. For the topmost hole, attach using a 4" x 3/4" bolt, (2) 1 3/8" flat washers, 3/4" lock washer, and nut. For the lower hole, attach with a 4" x 9/16" bolt, (2) 3/4" flat washers, a 9/16" lock washer, and nut. One flat washer should be placed next to the head of the bolt, and the second, between the flat bracket and lock washer.

**Do not fully tighten bolts until specified.**

[fig. F]

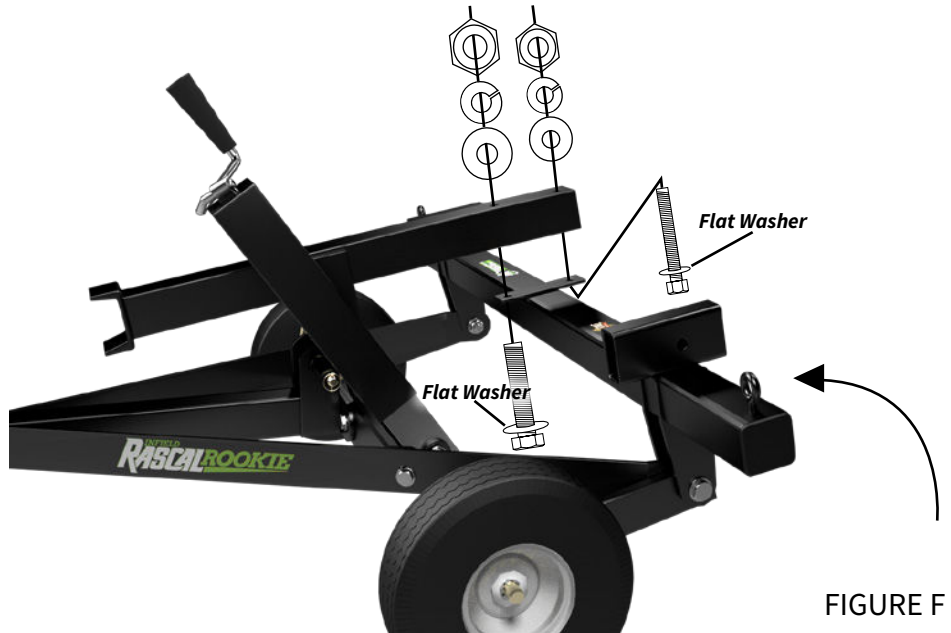


FIGURE F

# 8)

Using the 5 1/2" hitch pin, attach the toplinek to the rear mast. [fig. G]

# 9)

Using the 7" hitch pin, align the toplinek inside the ears of the tongue beam, and attach to the square hand jack.

The jack should now function to raise and lower the wheels. The top link, when twisted **FROM THE MIDDLE HANDLE**, adjusts the pitch of the drag frame.

**Finally, tighten the hardware installed in steps 6-7**, using 3/4" wrenches or sockets, and 9/16" wrenches or sockets. [fig. G]

**NOTE: Before use, make sure you grease your wheels with high-temp grease, and re-grease every month (depending on use)!**

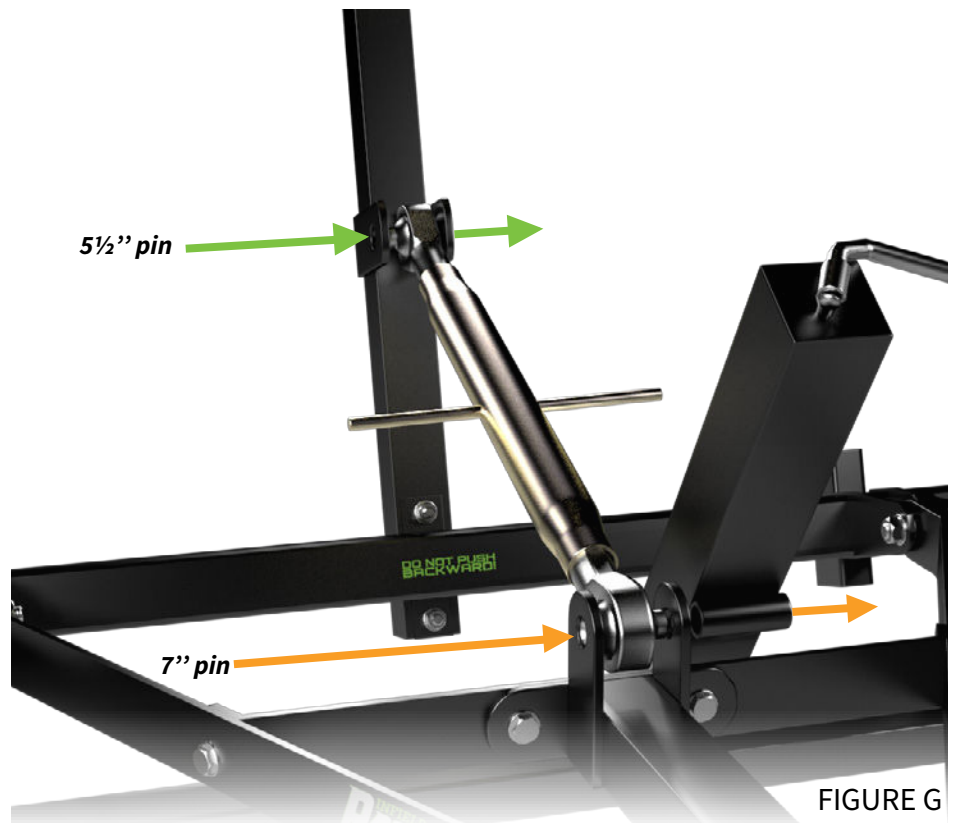


FIGURE G

**Congratulations! Your ABI® Infield Rascal® Rookie is ready to use!**

**Refer to the following pages for proper use and implementation of attachments and optional drags!**



## ATTACHING YOUR VIBRAFLEX™ DRAG

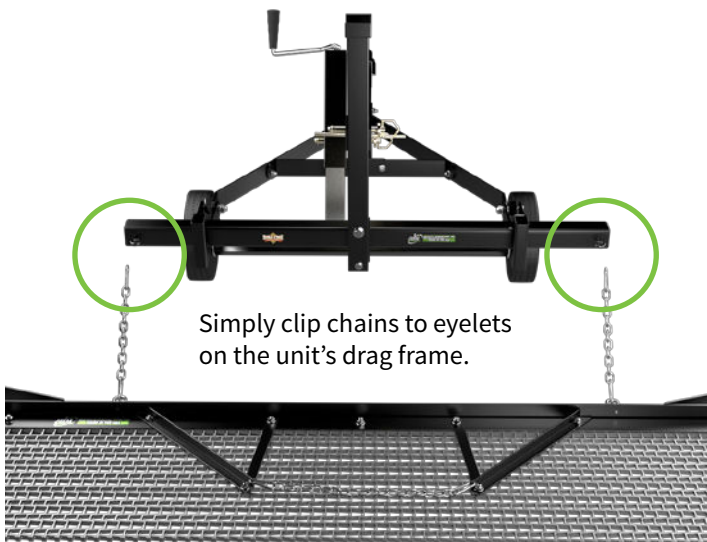
**NOTE:** Please refer to assembly instructions found on subsequent pages or included with your Vibraflex™ drag to ensure proper assembly before using with your Infield Rascal® Rookie.



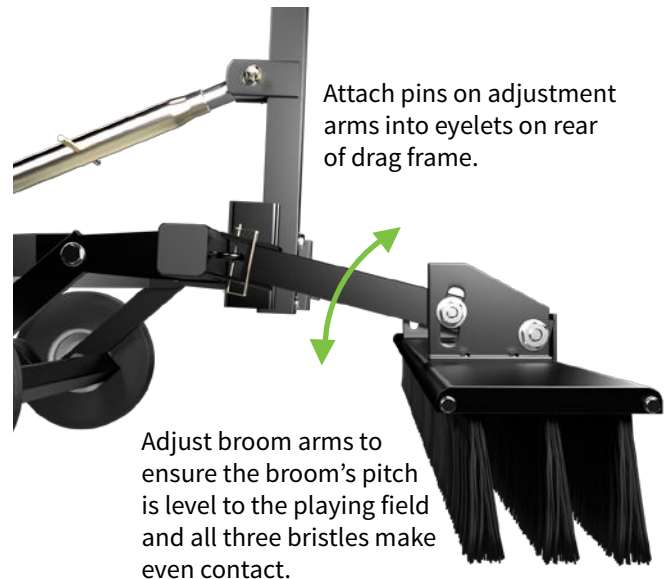
## ATTACHING YOUR DRAG MATS, COCO MAT, OR FINE FINISH BROOM (IF EQUIPPED)

**NOTE:** Please refer to assembly instructions found on subsequent pages or included with your drag mat, coco mat, or fine finish broom to ensure proper assembly before using with your Infield Rascal® Rookie.

### RIGID DRAG MAT, COCO MAT, AND XD FLEXIBLE DRAG MAT:



### FINE FINISH BROOM:



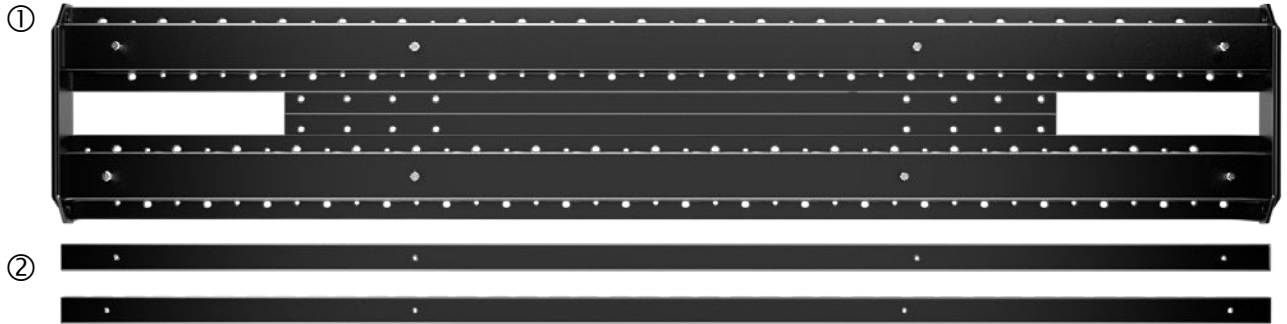
# ASSEMBLY INSTRUCTIONS

# VIBRAFLEX™ DRAG

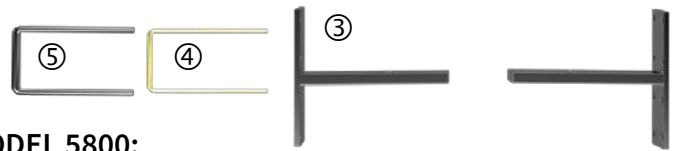
MODEL 3800 (IF EQUIPPED)

*\*Model 5800 not available for use with Infield Rascal® Rookie*

## PARTS INCLUDED



- ① MAIN BODY
- ② 2 VIBRAFLEX™ U-PIN LOCKING BARS
- ③ 2 BODY POSTS



### MODEL 3800:

- ④ 38 QTY. GOLD 1/4" VIBRAFLEX™ U-PINS
- ⑤ 38 QTY. BLACK 3/8" VIBRAFLEX™ U-PINS

### MODEL 5800:

- ④ 58 QTY. GOLD 1/4" VIBRAFLEX™ U-PINS
- ⑤ 58 QTY. SILVER 1/8" VIBRAFLEX™ U-PINS

## HARDWARE INCLUDED

- (8) 7/8" FLAT WASHERS
- (8) 1/2" LOCK WASHERS
- (8) 1/2" NUTS
- (16) 5/8" LOCK WASHERS
- (16) 9/16" BOLTS

## TOOLS NEEDED

- 1/2" WRENCH OR SOCKET
- (OPTIONAL) RUBBER Mallet
- 2 BLOCKS WITH AT LEAST 3.5" CLEARANCE OR TWO STURDY CHAIRS TO RAISE MAIN BODY
- 9/16" WRENCH
- 9/16" SOCKET (DEEP WELL RECOMMENDED)



**NOTE: KEEP ALL HANDS AND FEET CLEAR OF PINS DURING TRANSPORT & USE.**



**USE CAUTION WHEN  
STORING THIS TOOL. ENSURE  
THAT PINS ARE FACING  
DOWNWARD.**



**CAUTION: AN IMPROPERLY  
COUPLED TOOL CAN RESULT  
IN DAMAGE OR SERIOUS  
INJURY.**

# 1)

After carefully lifting the parts to your VIBRAFLEX™ drag out of the box, make sure that all the pieces are present using the included list. The Vibraflex™ U-pin locking bars come loosely attached to the main body for transportation.

# 2)

Remove the Vibraflex™ U-pin locking bars from the main body using a wrench or your fingers. Set the hardware and caps aside. [fig. A]

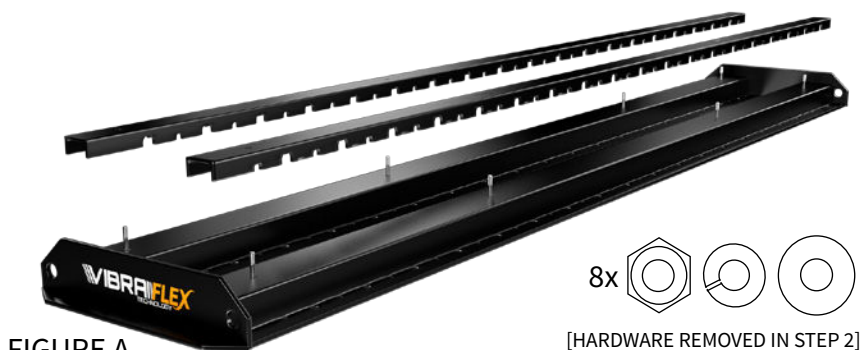


FIGURE A

# 3)

Prop the main body up on the blocks or chairs carefully. Make sure that the last pin holes on each end are not covered by the blocks or chairs. You should be able to rest about 1.5 inches on the blocks or chairs. [fig. B]

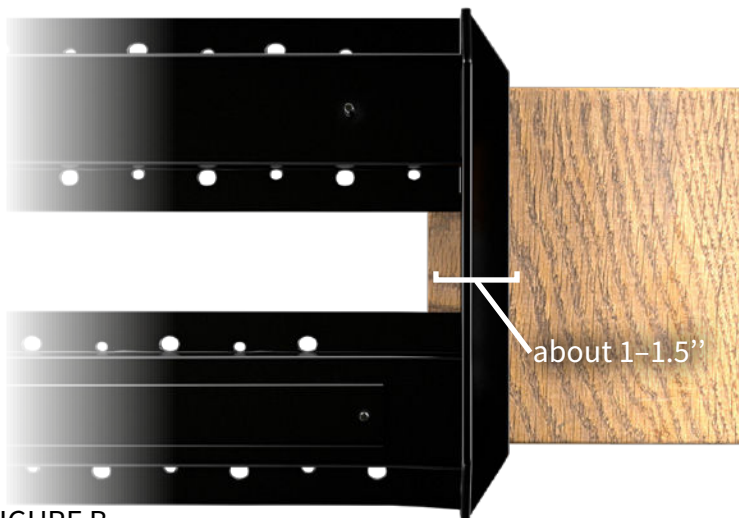


FIGURE B

# 4)

Line the two uprights up with the corresponding threaded holes on the main body. Make sure both are angled the same way. Then insert a **9/16" bolt** and **5/8" lock washer** through the upright and into each of 8 threaded holes. Start with each upright's corners to ensure proper line-up. Tighten with a socket or wrench only once all bolts have been inserted by hand. [fig. C]

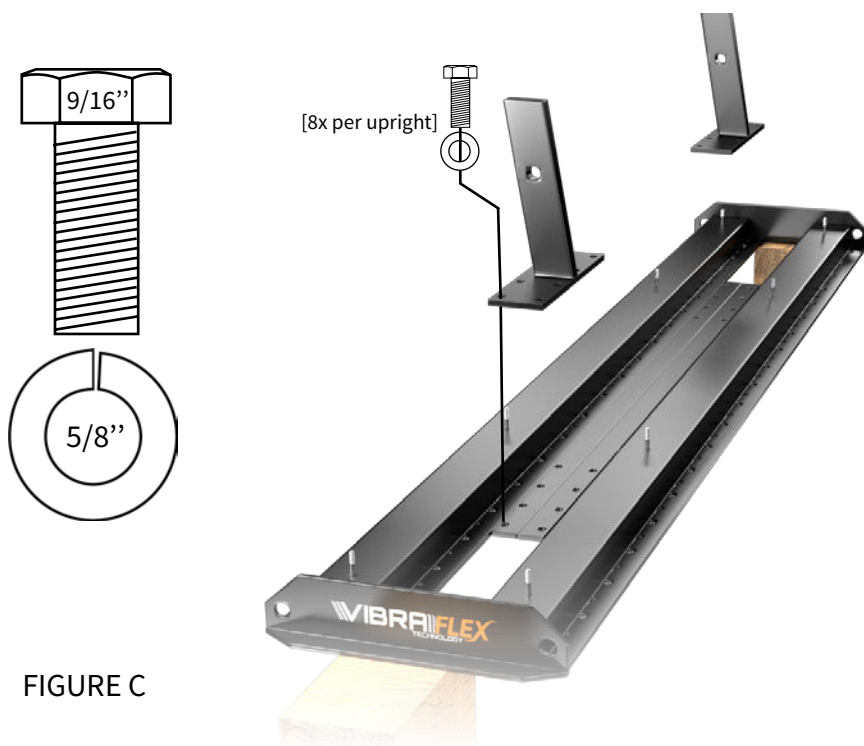


FIGURE C

# 5)

Choose which set of pins to insert (default is gold 1/4" pins), and carefully insert each of 38 OR 58 pins (depending on your model) into the correctly-sized holes (There should be a tight fit. Do not insert the smaller pins into the larger holes). For best results, only install one set of pins at a time. If desired, use a rubber mallet to ensure each pin is completely inserted. [fig. D]

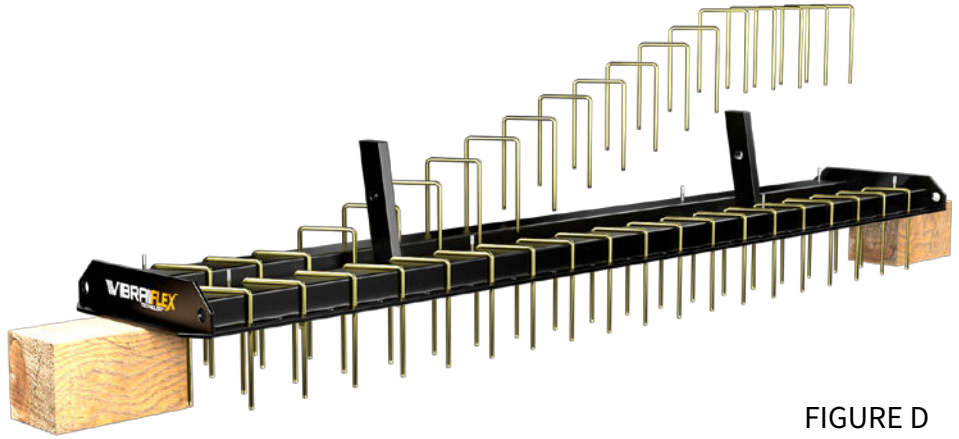


FIGURE D

# 6)

Replace the long Vibraflex™ U-pin locking bars, making sure that each pin is properly seated in the corresponding groove cut in the cap. Caps only fit onto the U-pins one way. Optional: Gently pound bars with the rubber mallet to ensure a tight and flush fit. [fig. E & F]

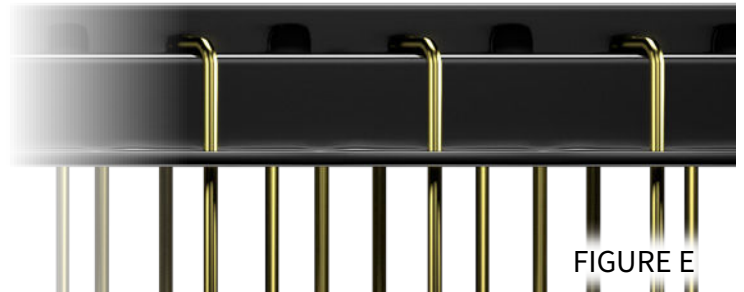


FIGURE E

# 7)

Place a 7/8" flat washer, then a 1/2" lock washer, and finally a 1/2" nut on each of the attached body bolts. Tighten once all are properly seated, starting with the middle bolts and moving outward. Do not overtighten nuts. [fig. F]

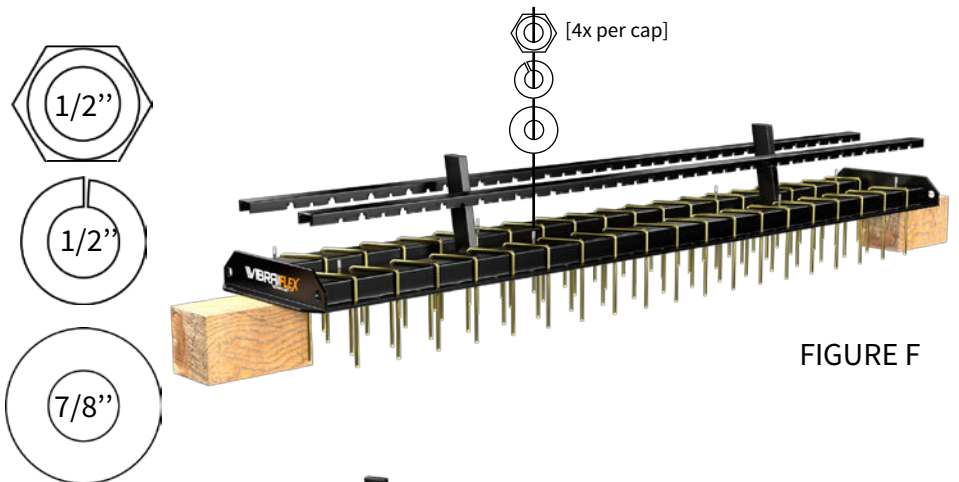


FIGURE F

# 8)

Remove main body assembly from blocks or chairs and carefully set down.

NOTE: To replace or swap pins, simply follow steps 2 through 8, excluding step 4.



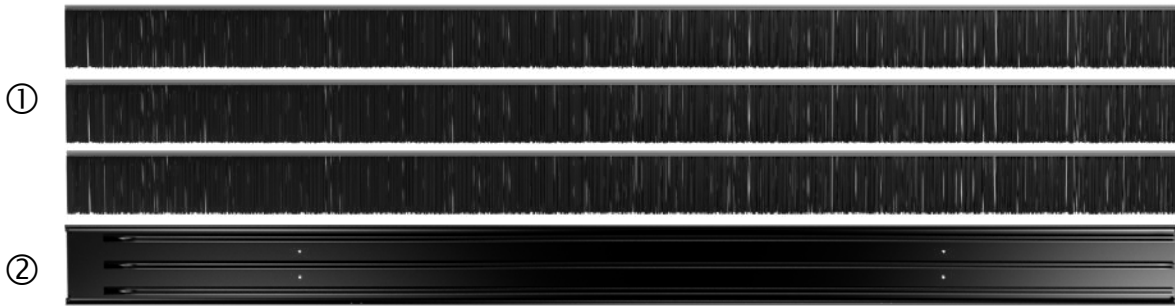
**Congratulations! Your ABI Vibraflex™ Drag is ready to use on your ABI™ product!**

**Remember to refer to your tool's documentation for proper use and safety guidelines!**

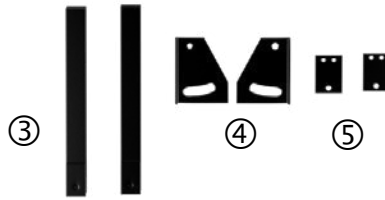
# ASSEMBLY INSTRUCTIONS

# FINE FINISH BROOM (IF EQUIPPED)

## PARTS INCLUDED



- ① BRISTLE SECTIONS
- ② BROOM FRAME
- ③ ADJUSTMENT BARS
- ④ ADJUSTMENT BRACKETS
- ⑤ FLAT PLATES



## HARDWARE INCLUDED

- (4) 1/2" LOCK WASHERS
- (12) 7/8" FLAT WASHERS
- (4) 1/2" NUTS
- (8) 1/2" BOLTS
- (1) ATTACHMENT CHAIN WITH CLIPS
- (4) 3/4" NUTS
- (4) 1 3/8" FLAT WASHERS

## TOOLS NEEDED

- 1/2" WRENCH AND SOCKET (OR TWO WRENCHES)
- 3/4" WRENCH OR SOCKET
- (OPTIONAL) RUBBER Mallet

# 1)

Unbox your fine finish broom and ensure you have all the parts on the list included. Locate the front and back edge of the main broom frame: the back of the frame has 4 holes drilled into it for attaching flat brackets, whereas the front of the frame has none.

# 2)

On the broom frame, locate the end cap with loosened hardware (nut and washers). Remove the hardware and end cap with a wrench (or your fingers) and set aside. [fig. A]

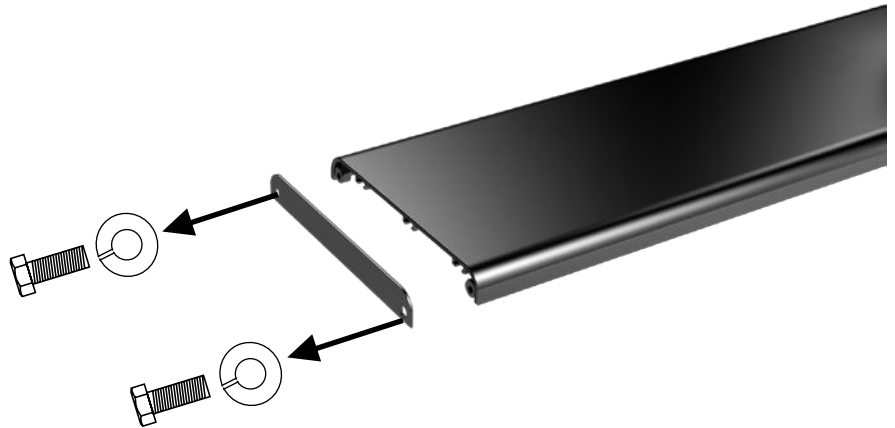
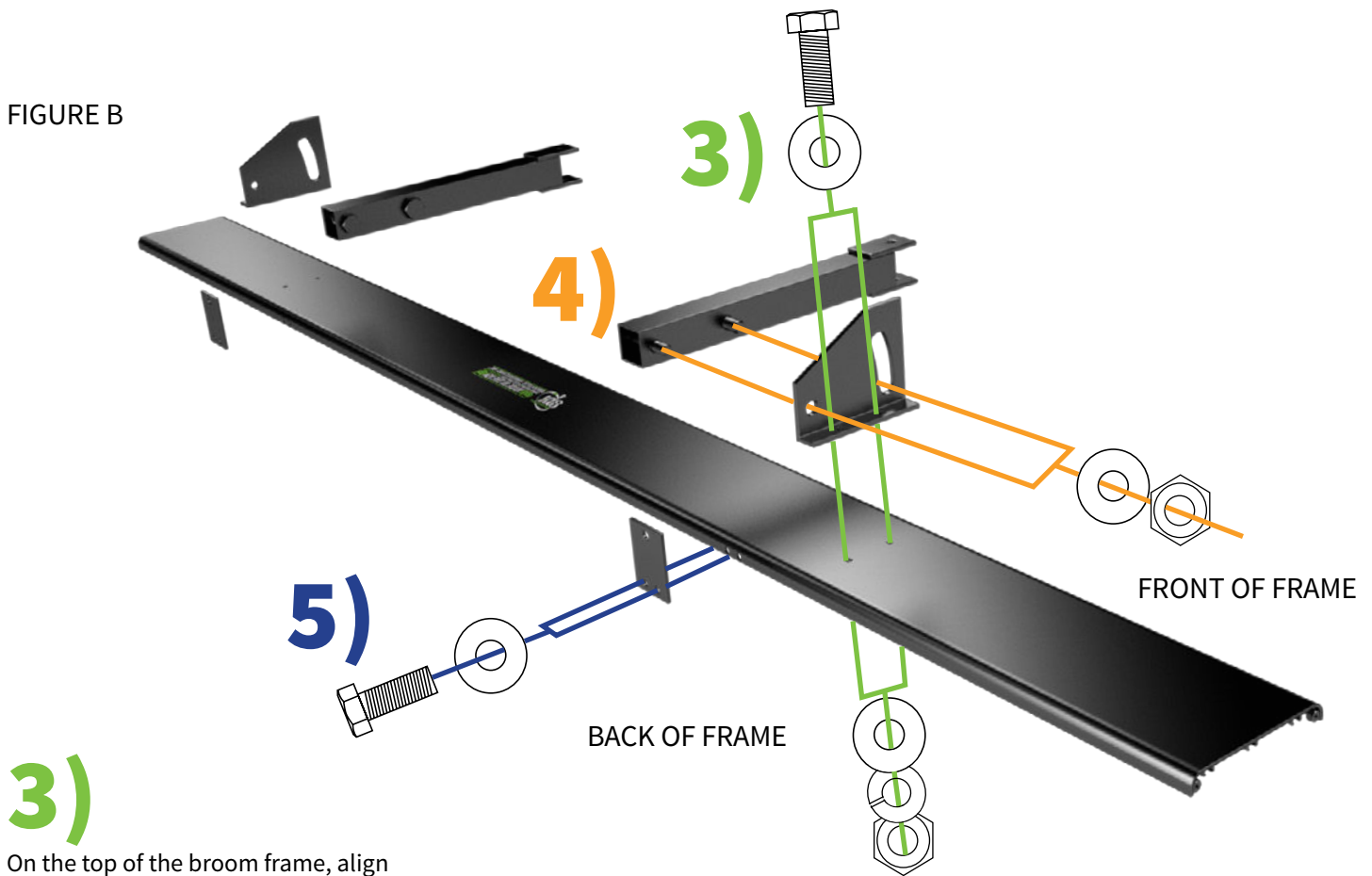


FIGURE A

FIGURE B



3)

On the top of the broom frame, align L-shaped adjustment brackets with the corresponding holes. *The short legs of the L-shaped brackets face the outside of the broom frame!* The long adjustable hole faces the front of the tool (the front of the broom frame DOES NOT have any holes drilled into its lip). Attach both brackets by threading a bolt through a flat washer, the bracket, broom frame, and then through another flat washer, lock washer, and nut. Tighten with a socket and wrench once all hardware has been threaded. [fig. B]

4)

Install adjustment arms onto adjustment brackets by inserting welded bolts through each hole in the adjustment brackets. The adjustment arms are attached to the **INSIDE** of each adjustment bracket. Secure loosely with a large flat washer and nut. NOTE: Do not over-tighten the adjustment arms! [fig. B]

5)

Attach both flat plates to the back side of the broom frame, threading a bolt and flat washer into each threaded hole. Tighten with a wrench or socket. [fig. B]

6)

Flip broom frame over so the bristle channels are facing up. Carefully insert each bristle piece into each channel. The fit is intentionally snug. OPTIONAL: gently tap each bristle piece with a rubber mallet to fully secure. [fig. C]

**DO NOT pound bristles in with your hand. The metal bristle cap may cut you!**



FIGURE C

# 7)

Once all bristle pieces are fully inserted, replace the broom frame end cap with the hardware it was originally attached with. Tighten carefully, and make sure the cap fits flush to the end. [fig. D]

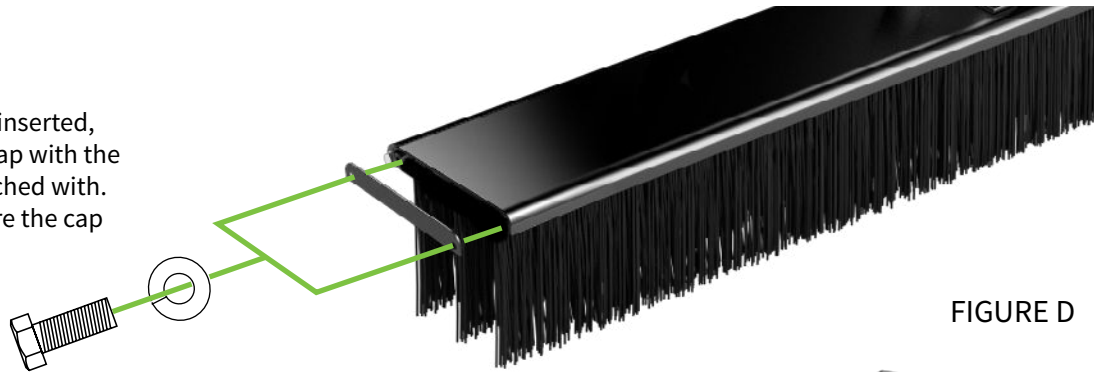


FIGURE D

# 8)

Attach the hanging chain to the flat plates on the back of the unit using the supplied clips. [fig. E]

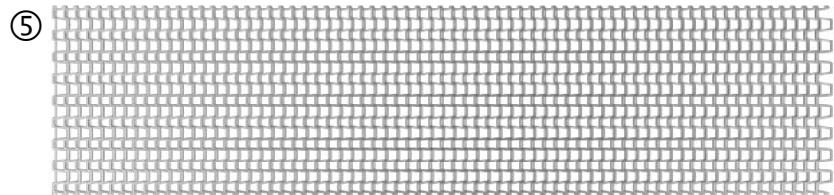


FIGURE E

*Congratulations! Your ABI® Fine Finish Broom is ready to use on your ABI® product!*

## ASSEMBLY INSTRUCTIONS COCO MAT or RIGID DRAG MAT (IF EQUIPPED)

### PARTS INCLUDED



- ① 2 DRAG BRACES
- ② LEVELING BAR FRAME
- ③ HOLDING BAR
- ④ COCO MAT (IF EQUIPPED)
- ⑤ RIGID DRAG MAT (IF EQUIPPED)

### TOOLS NEEDED

- 2 9/16" WRENCHES OR SOCKET
- (OPTIONAL) RUBBER MALLET

### HARDWARE INCLUDED

- (8) 9/16" LOCK WASHERS
- (8) 9/16" NUTS
- (2) 9/16" BOLTS
- (2) ATTACHMENT CHAINS (WITH ATTACHED CLIPS)
- (1) LIFT CHAIN (WITH ATTACHED CLIPS)

# 1)

After carefully unboxing your rigid drag mat or coco mat, ensure you have all the pieces mentioned on the previous page. Much of the hardware comes loosely attached for safe transport. Remove the 6 nuts and lock washers from the 6 bolts welded onto the frame. Leave the hardware connecting the two pieces of each brace attached. [fig. A]

# 2)

Lift the 2 brace assemblies from the leveling bar bolts and set aside. Then, lift the holding bar off of the 6 frame bolts and set aside. [fig. A]

# 3)

**FOR COCO MAT ASSEMBLY:**

Starting in the middle, line the pre-cut holes in the Coco Mat up with the welded bolts, flattening the coco mat as you work towards the ends, ensuring the mat does not buckle or flex. Press the mat fully onto the bolts. OPTIONAL: Use a rubber mallet to make sure the mat is completely pressed on to the frame [fig. B]

**FOR DRAG MAT ASSEMBLY:**

Starting at the ends, place the rigid mat onto each of the 6 welded frame bolts, ensuring the mat remains flat. NOTE: All 6 bolts fit into the **SECOND ROW** of links and each of two end bolts fit into the **THIRD LINK FROM BOTH EDGES** of the mat. Once the mat is placed correctly on the edges, some re-positioning may be needed on the middle frame bolts to remove buckles and flatten mat. [fig. C & inset]

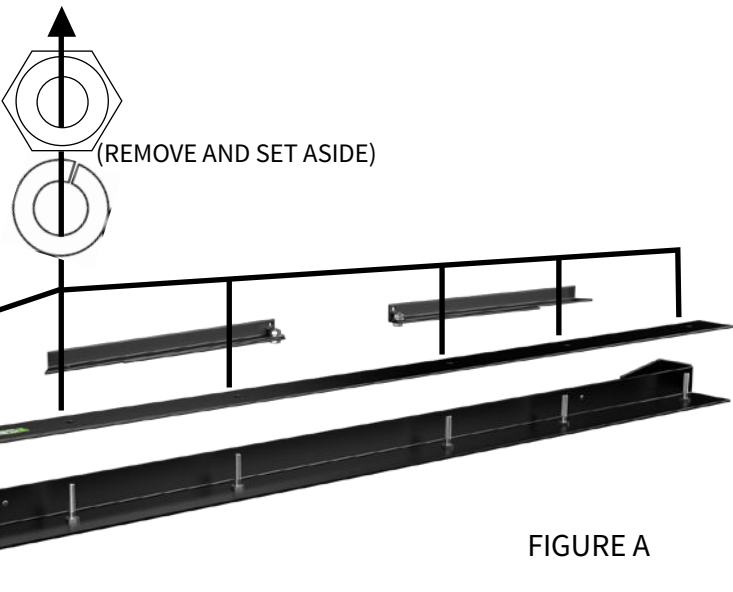


FIGURE A



FIGURE B

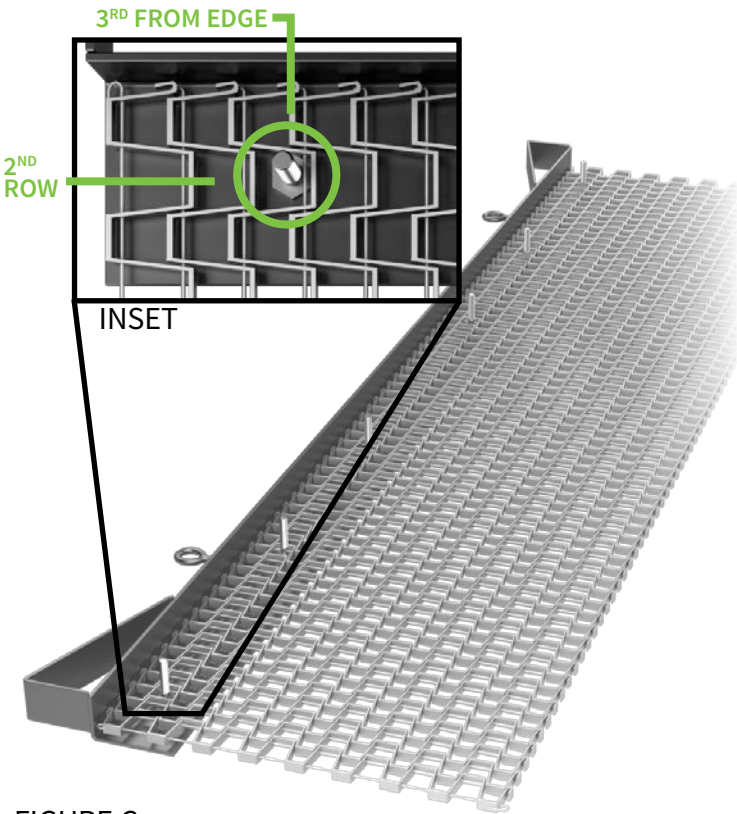


FIGURE C

# 4)

Replace the holding bar on top of the mat, fully onto each of the six bolts. OPTIONAL: Use a rubber mallet to ensure the holding bar is pressed completely down onto the bolts. [fig. D]

**NOTE: FIGURES E, F, G, & H APPLY TO BOTH COCO AND RIGID MAT ASSEMBLIES**

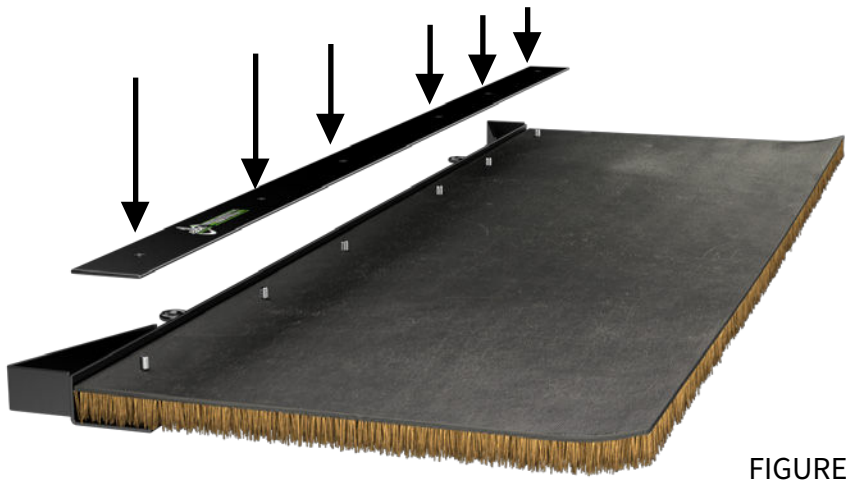


FIGURE D

# 5)

Place each brace assembly on the left and right middle bolts over the holding bar. The angle-ended arm of each brace should be oriented outward. For a proper fit, you may need to gently loosen the connecting hardware to open up the arms of the brace. [fig. E]

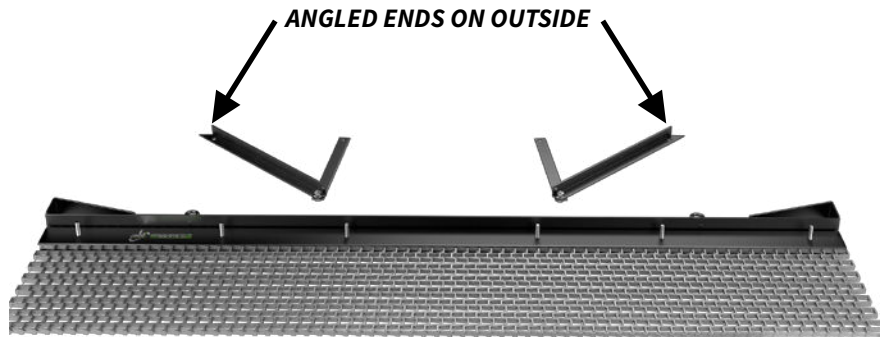


FIGURE E

# 6)

Once the holding bar and two braces have been properly placed over the mat and on the frame, attach a lock washer and nut to each bolt. Tighten once all have been properly seated. Use two wrenches or a wrench and socket to tighten the arm connection on each brace. [fig. F]

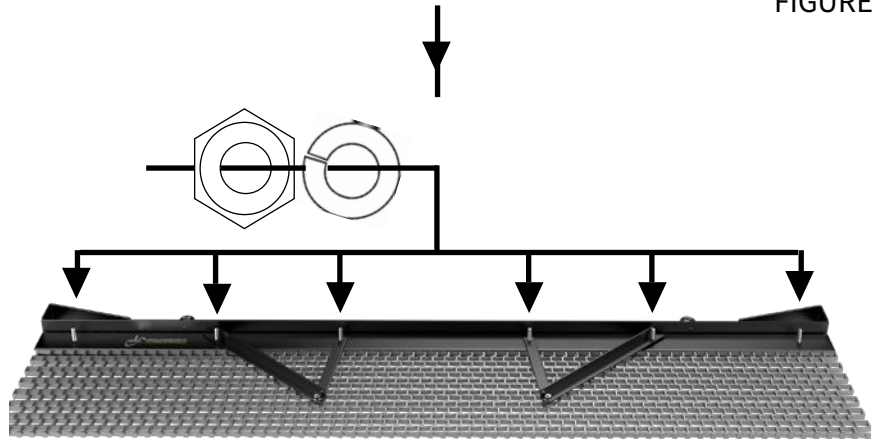


FIGURE F

# 7)

TWO of the included chains are the same length. Clip these two chains to the eyelets on the front of the drag mat. The last chain attaches to the drilled holes on the joint of the angled braces (for easy lifting). [fig. G]



FIGURE G

**Congratulations! Your ABI Coco Mat or Rigid Drag Mat is ready to use on your ABI® product!**  
**Remember to refer to your tool's documentation for proper use and safety guidelines!**

# GETTING STARTED

## 3 ways to adjust and use your Infield Rascal® Rookie

**NOTE:** Before use, make sure you grease your wheels with high-temp grease, and again every month (depending on use)!

### 1) WHEEL POSITION

When the Rookie is properly connected to a tow vehicle, turning the square hand jack raises and lowers the wheels, which in turn, raises and lowers the frame and ground contact points. There are 3 primary wheel positions:

#### Transport

Fully extending the wheels downward raises the tool off the ground for easy transport and underbelly access to the VibraFlex groomer. Note: NOT high speed bearings. Do not exceed 8 MPH and slow down for corners.



#### Typical Use

To set and adjust the maximum penetration depth of your Vibraflex pins, transport the tool onto the infield surface and retract the wheels until the gap between the bottom of the wheel and the top of the infield surface is the same as the grooming depth desired. For everyday use, a maximum depth of 1/4" to 1/2" is generally most effective. For occasional tension and compaction relief, a depth of 1" – 2" is a good rule of thumb. Maintain a consistent speed for best results.



*Note: As surface material loosens, wheels may sink slightly into softer material and adjustments may be necessary.*

#### Aggressive Use

With the wheels fully retracted upward (no longer in contact with the ground), the full weight of the tool rests on the VibraFlex groomer pins, allowing for more aggressive action. This method should only be used when the infield surface is exceptionally hard-packed and typical use is ineffective.



#### Storage

This wheel position is the safest storage and hitch decoupling position, preventing the weight of the drag from swinging the tongue upwards unexpectedly.

### 2) GROUND CONTACT PITCH

The gold top link adjusts the front and back pitch of the VibraFlex groomer. Adjust the pitch so that the Vibraflex groomer is parallel to the ground. All 4 rows of pins must be perfectly flat to the ground. If the drag skips during use, it is likely that the pitch of the VibraFlex groomer needs to be adjusted. Note: Ground contact pitch will need to be adjusted for each tow vehicle when connecting the Infield Rascal Rookie.



### 3) FINISH ATTACHMENT CHAIN SLACK

The chain slack on finishing attachments is intentionally adjustable, and will vary depending upon material, moisture, and desired results. As a general rule, reduce slack as possible while still maintaining desired results. If using the ABI rigid drag or coco mat with integrated leveling bar and too much material is building up, simply shorten the chain until the front of the leveling bar is approx. 1/8 - 1/4" off the ground in the front when pulling forward.



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