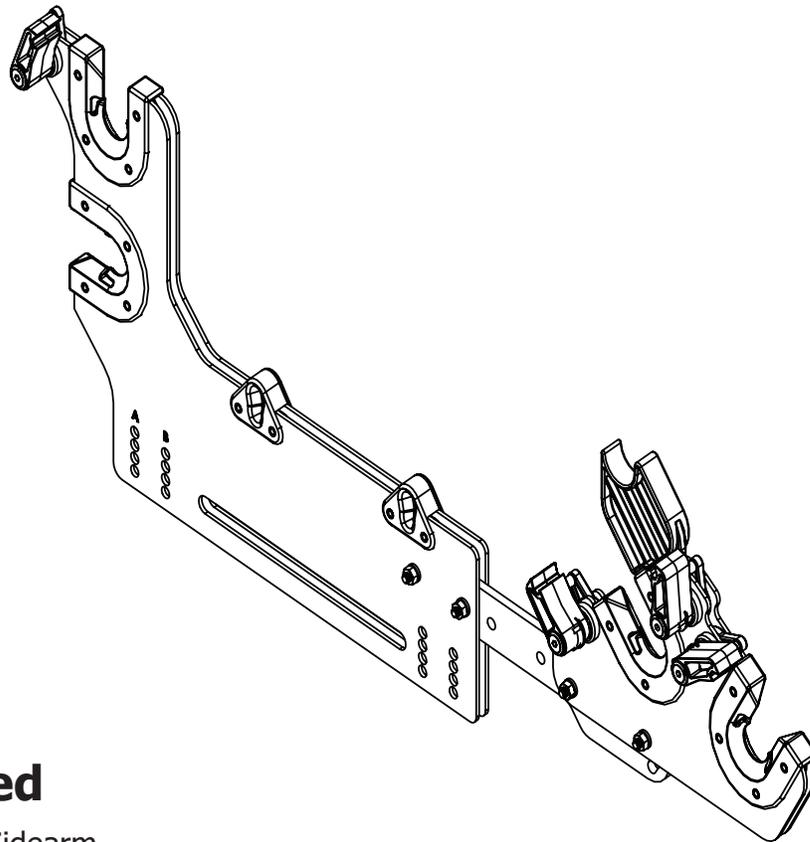


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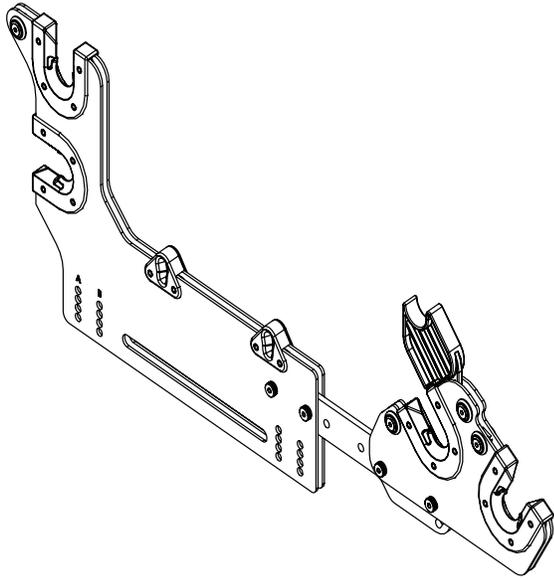


## What's Included

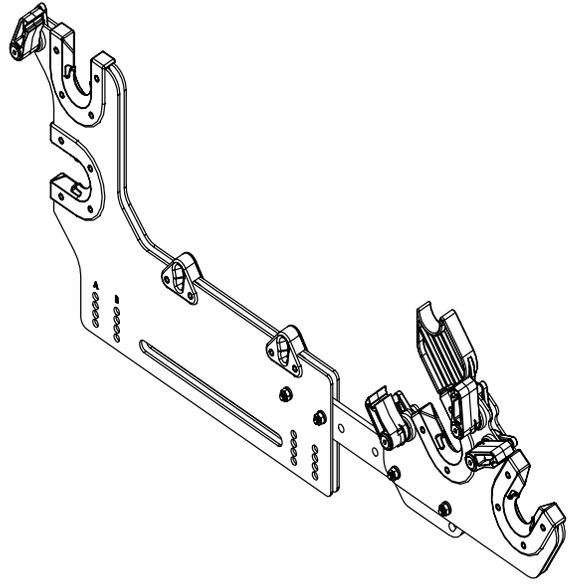
Your HQ Studio2 Frame Sidearm Upgrade Kit should have been delivered in one box. Upon opening, please check immediately to see if you have received the items listed in the Parts list found on pages 2 and 3.

If you find you are missing any items, please contact your retailer or Handi Quilter immediately.  
1-877-697-8458 • 1-801-292-7988  
HQcares@HandiQuilter.com

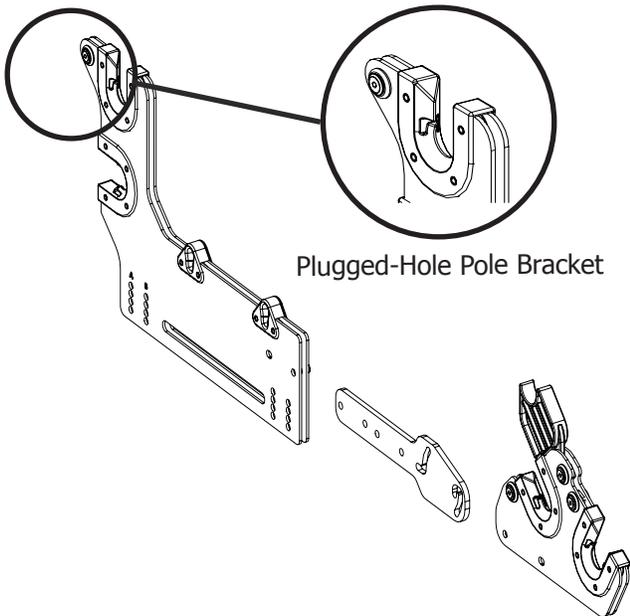
# HQ Studio2 Frame Sidearm Upgrade Kit Parts List



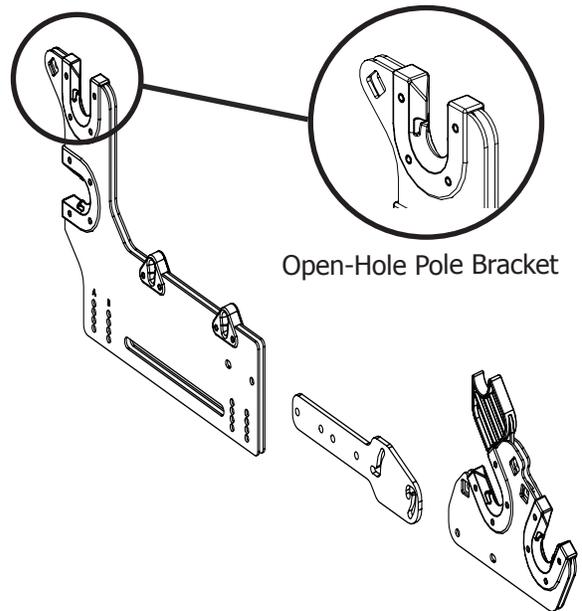
Plugged-Hole Pole Bracket (1)  
Part# QF09320-100 shown assembled  
(requires assembly, 3 main pieces and screws - see below and above)



Open-Hole Pole Bracket (1)  
Part# QF09320-200 shown assembled  
(requires assembly, 3 main pieces, screws and ratchets stop assemblies - see below and above)

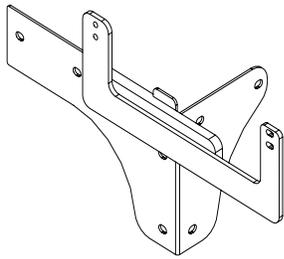


Plugged-Hole Pole Bracket

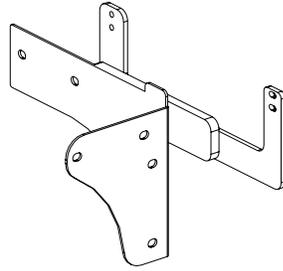


Open-Hole Pole Bracket

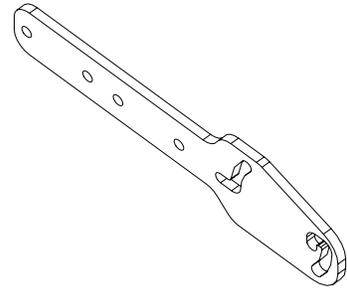
# Sidearm Upgrade Kit Parts List - continued



Left Frame Side Front (1)  
Part# QF09320-511



Right Frame Side Front (1)  
Part# QF09320-411



Connector Arm (2)  
Part# QF09320-124  
shown on previous page



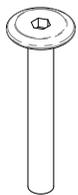
M8 x 12 shoulder  
screw (SCS) (4)  
Part# QF09320-07



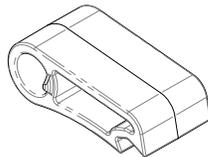
M6 X 5 Nyloc  
Lock Nut (4)  
Part# QM10216



M6 Flat Washer (4)  
Part# QM10642



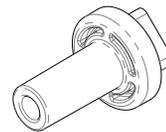
M6 x 45mm  
Connector Screw (4)  
Part# QF09318-204



Ratchet-Stop (4)  
Part# QF09318-203



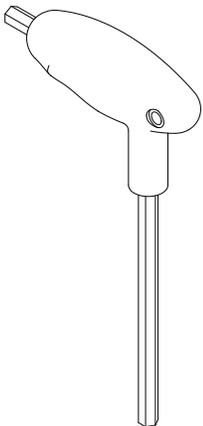
Ratchet-Stop  
Mount (4)  
Part# QF09318-202



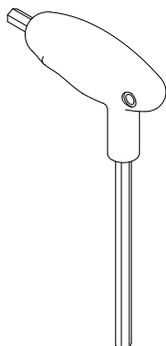
Ratchet-Stop  
Bushing (4)  
Part# QF09318-201



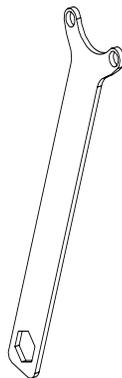
Ratchet-Stop  
Holder (4)  
Part# QF09318-205



5mm Allen Wrench (1)  
Part# QF09318-113



4mm Allen Wrench (1)  
Part# QF09318-112

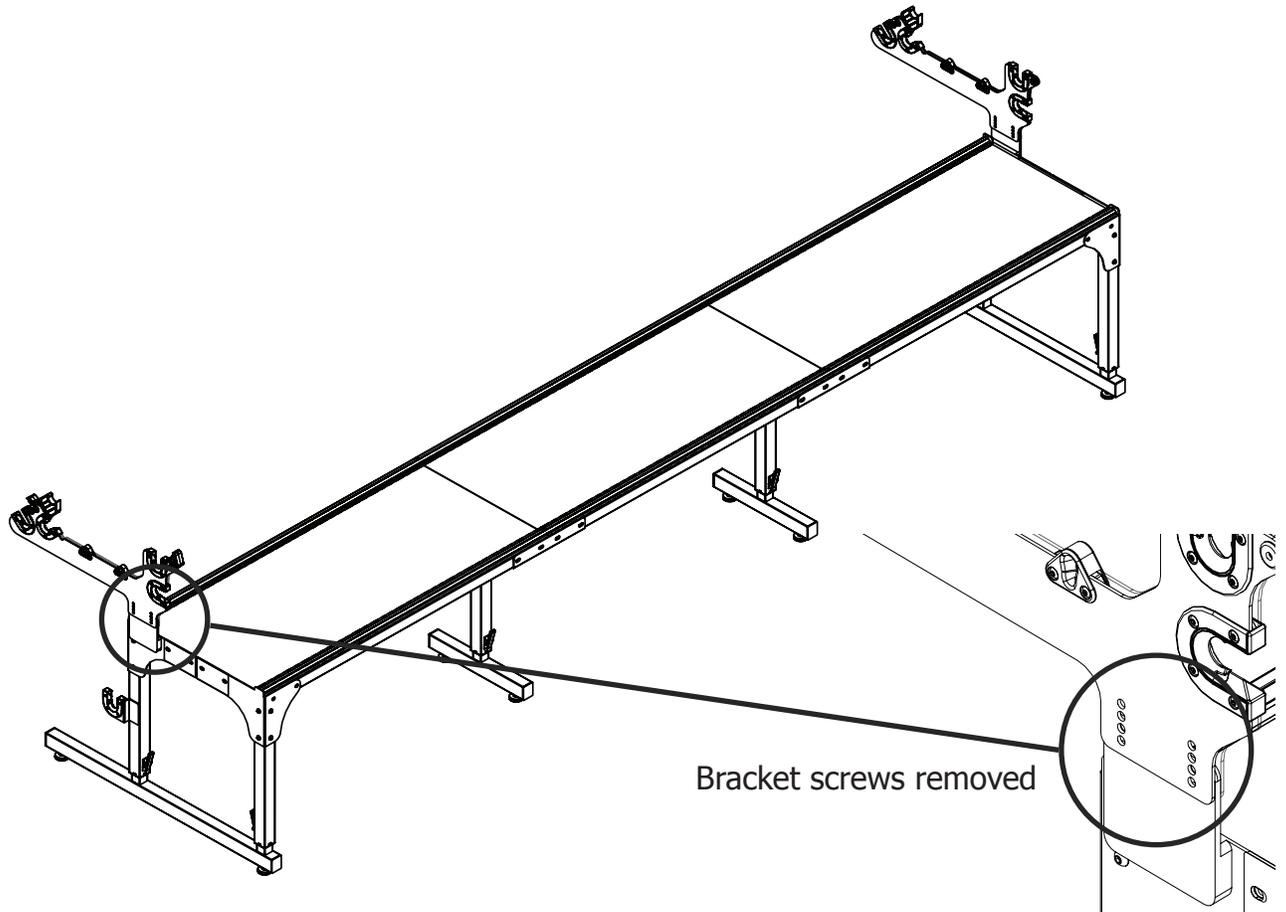


Pole end and 10mm  
wrench (1)  
Part # QM09318-12



17/13/16mm Wrench (1)  
Part# QF09318-114

# Step 1: Preparing Frame for Upgrade



## NOTE:

Remove any quilt you have loaded on the frame before performing the sidearm upgrade.

## Tools Required

5mm hex tool (provided)  
17/13/16 wrench (provided)



**NOTE:** These instructions will describe changing the right end of the frame first with the open hole/latches to the right.

**1-1:** If a quilt is loaded on the frame, remove the quilt.

**1-2:** Remove the poles and set them aside in a safe place.

**1-3:** Disconnect the machine cables and remove the machine, or secure it to the far end of the frame.

**1-4:** Remove the two screws holding the pole bracket onto the right frame side front bracket, using the 5mm hex tool and the 13mm wrench. Set the screws, nuts, and washers in a safe place to be reused later on.

**1-5:** Set the pole bracket aside.

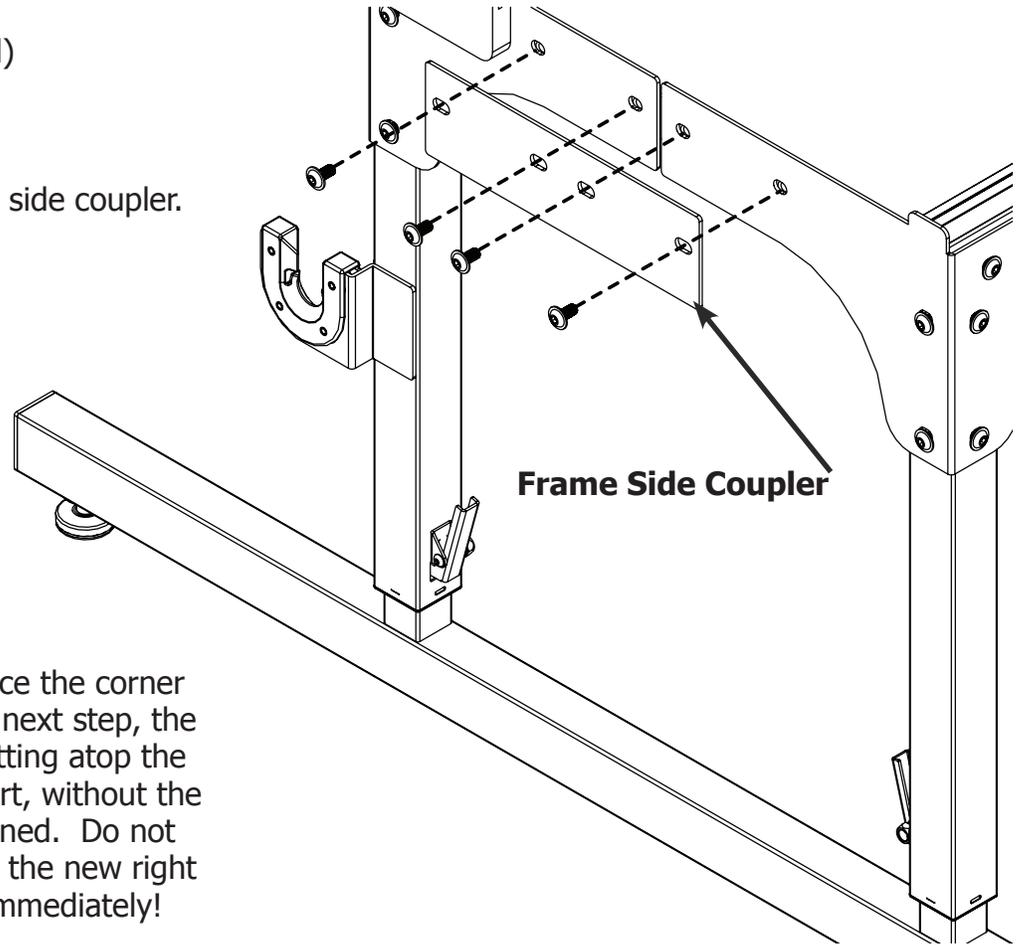
**1-6:** Repeat steps 1-4 and 1-5 for the other pole bracket.

## Step 2: Replacing Frame Side Front with Bracket

### Tools Required

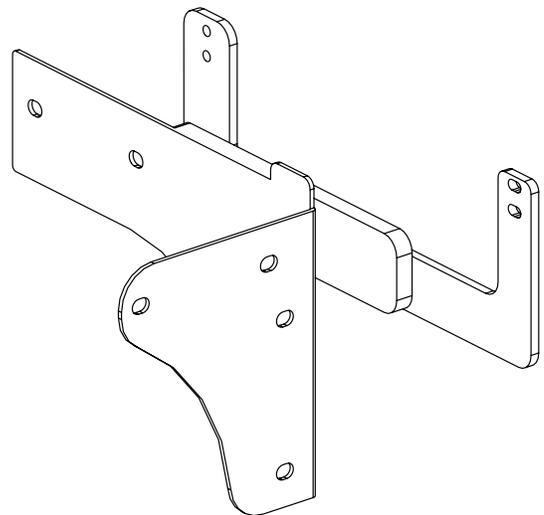
5mm hex tool (provided)

**2-1:** Remove the frame side coupler.



**IMPORTANT:** Once the corner piece is removed in the next step, the frame top will just be sitting atop the front leg tube for support, without the corner to keep it positioned. Do not move the frame. Put on the new right frame side front piece immediately!

**2-2:** Locate the new right frame side coupler.

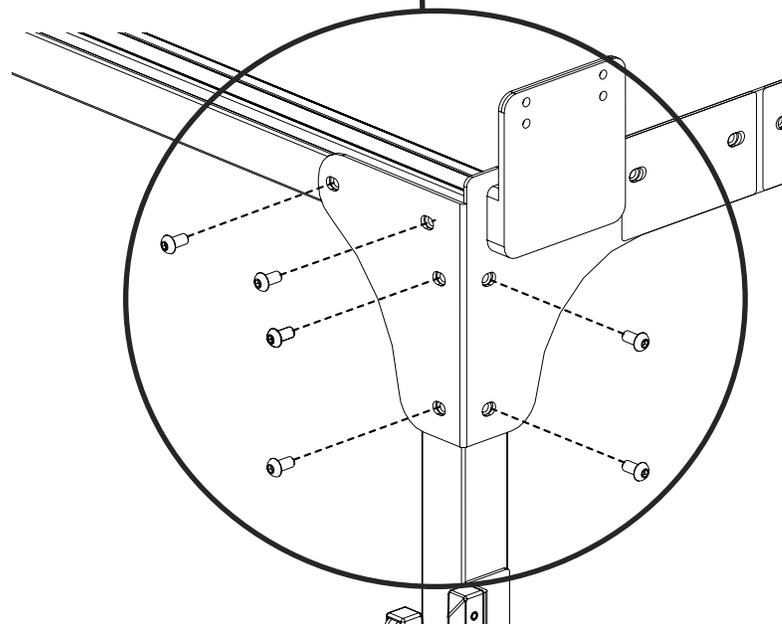
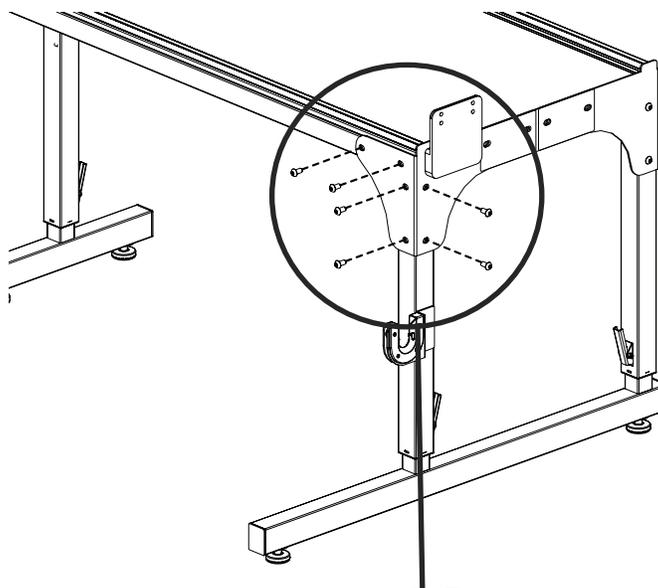


**New Right Frame Side Front**

## Step 2: Replacing Frame Side Front w/Bracket - Cont.

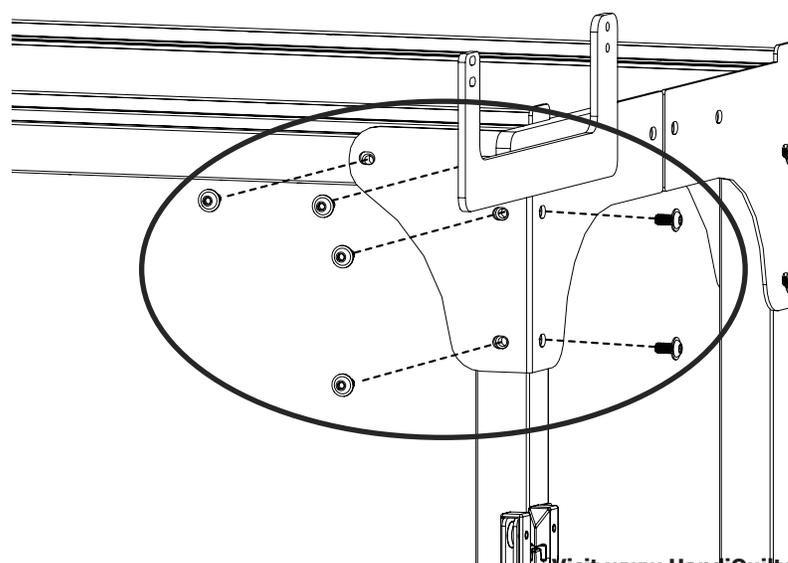
**2-3:** Carefully remove the two remaining front table top screws, the two front corner screws and the two right side corner screws from the front leg.

 **IMPORTANT:** Do not move or re-position the frame at this point.



**2-4:** Immediately install the new right frame side front using four screws into the leg and two into the table top. Finger tighten only for now. The screws will be fully tightened in step 3-2 after the frame side coupler is installed.

**2-5:** Repeat the process for the Left Frame Side Front.

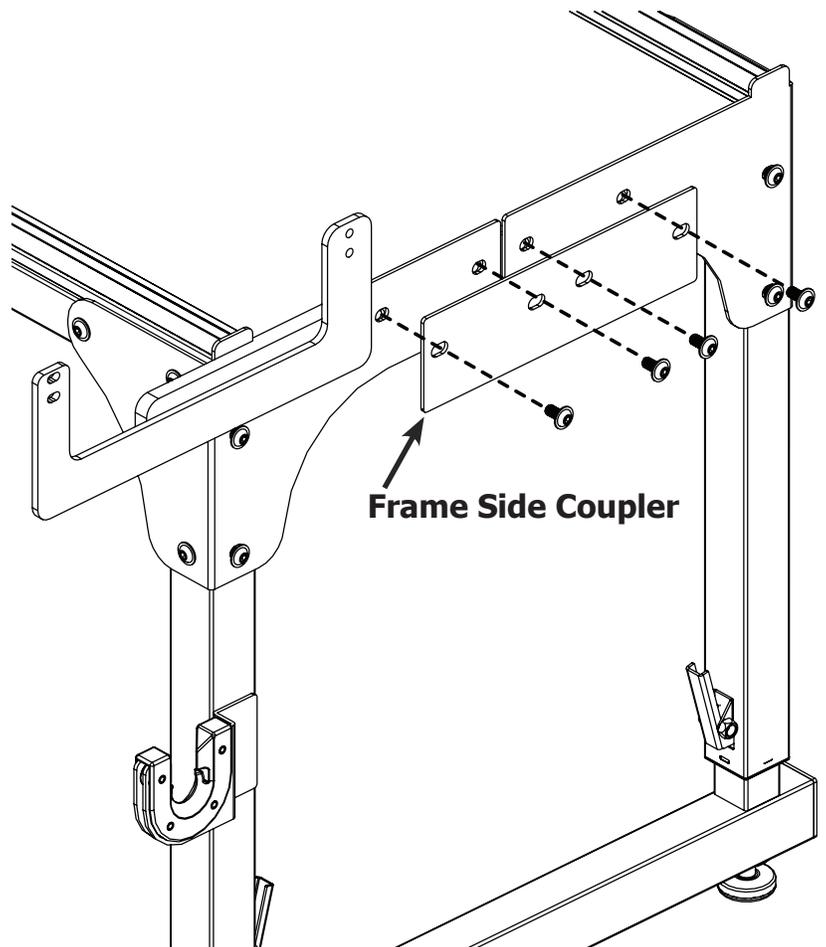


## Step 3: Re-Installing the Frame Side Coupler

### Tools Required

5mm hex tool (provided)

- 3-1:** Replace the frame side coupler and install the four screws into the frame side. Finger tighten only for now.
- 3-2:** Fully tighten all the screws with the 5mm hex tool.
- 3-3:** Repeat the process for the frame side coupler on the other side of the frame.



# Step 4: Front Pole Bracket to Back Pole Bracket Assembly

## Parts Needed

- 1 - QF09320-200 Open-hole pole bracket (requires assembly, 3 main pieces and screws each)
- 4 - QM09320-7 M8-12 shoulder screw
- 4 - QM10642 M6 X 12 x 1.5 washer
- 4 - QM10216 M6 X 5mm Nyloc nut
- 2 - QF09318-06 M8 X 25 screw
- 2 - QF09318-08 M8 Nyloc nut
- 2 - QF09318-09 M8 washer

## Tools Required

- 4mm Allen wrench (provided)
- 10mm wrench (provided)

**4-1:** Decide whether you want the frame to be set up for a 16-inch, 18-inch or 20-inch machine. The assembly and mounting are different between the 16-inch/18-inch and the 20-inch machines.

**4-2:** For the 16-inch/18-inch machines: The pole bracket needs to be assembled in the shorter configuration. Use the front two holes in the center connector arm for the front bracket and the next two holes for the back bracket. Align the holes and insert the four shoulder screws from the outside to inside so the threads will be on the inside when assembled. Then place the washer and Nyloc nut onto the screw. Fully tighten all four screws with the 10mm wrench and 4mm hex tool.

For the 20-inch machine: The pole bracket needs to be assembled in the longer configuration. Use the front two holes in the center connector arm for the front bracket and the back two holes for the back bracket. Proceed as described above.

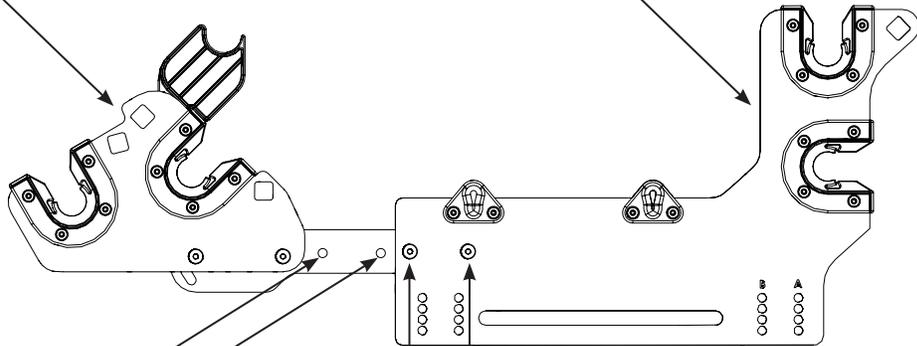


**IMPORTANT:** For more information on how to decide whether the open hole bracket will be on the right or left of the frame see **Step 5**.

**4-3:** The front bracket can be moved into two positions so it needs to be adjusted with care. In **step 4-2** the front two screws on the front bracket were fully tightened; now back them off about one half turn, or until the front bracket can be set in both positions freely.

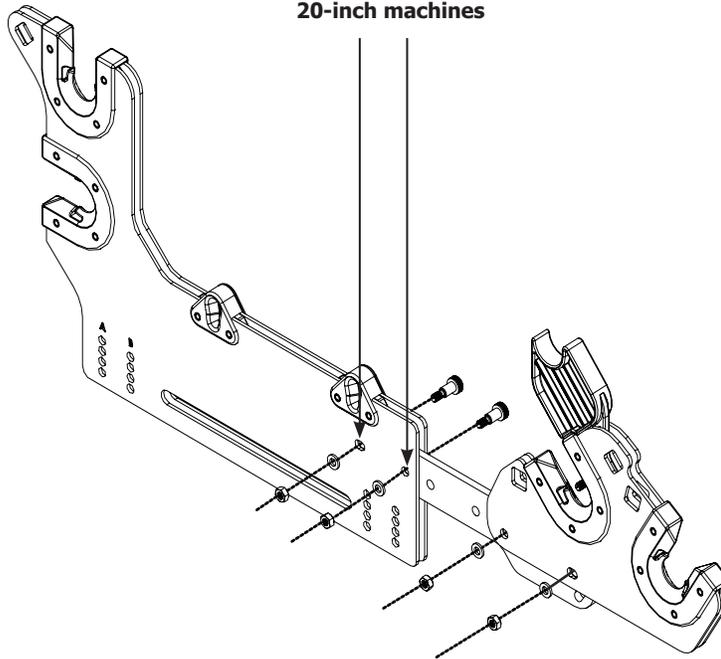
Front Pole Bracket Assembly

Back Pole Bracket Assembly

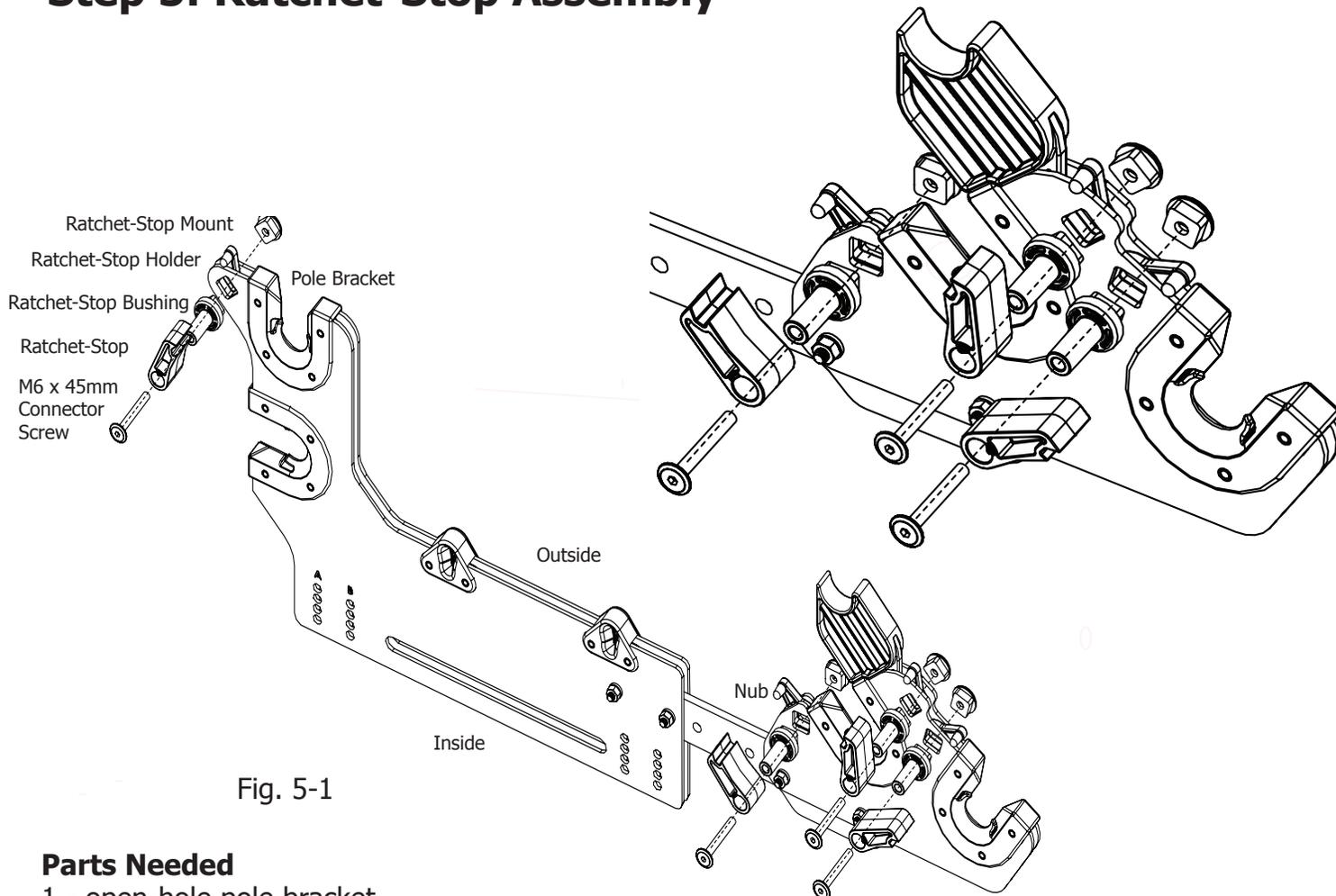


Slide the front bracket assembly to the back until these two holes are aligned with the back bracket before inserting the bolts for **16-inch/18-inch machines**.

Align here for  
**20-inch machines**



## Step 5: Ratchet-Stop Assembly



### Parts Needed

- 1 - open-hole pole bracket
- 4 - M6 x 45mm connector screw
- 4 - ratchet-stop
- 4 - ratchet-stop bushing
- 4 - ratchet-stop mount
- 4 - ratchet-stop holder

### Tools Required

4mm Allen wrench (provided)

**5-1:** Decide whether you want the ratchets and hand wheel to be on the left or the right side of the frame. The following instructions show how to assemble the frame with the hand wheel on the right side of the frame, which is the most common setup. If you prefer the hand wheel to be on the left side of the frame, see "Left Side Option" on page 11.

**5-2:** Identify the open-hole pole bracket and the plugged-hole pole bracket. The plugged hole pole bracket can be used "as-is" on either the left or right side, depending on the decision made about which side the hand wheel will be on. Set the plugged-hole pole bracket aside at this time.

The ratchet stops and ratchet-stop holder will be assembled into the open-hole pole bracket, but the orientation of the stops and holders will vary, depending upon whether the pole bracket is used on the right or the left side of the table. The instructions that follow assume that the open-pole bracket (and hand wheel) will be used on the right side of the frame.

## Step 5: Ratchet-Stop Assembly (continued)

**5-3:** Place one ratchet-stop holder between the two metal pieces at the back of the open-hole pole bracket, with the stop nub facing inside, as shown in Fig. 5-1. If the ratchet-stop holder will not fit, loosen the two pole-bearing screws nearest the square hole. Slide in the ratchet-stop holder and re-tighten when finished.

**5-4:** Following the parts order in the circled detail in Fig. 5.1, thread one M6 x 45mm connector screw through a ratchet stop, ratchet-stop bushing, pole bracket (with ratchet-stop holder inserted) and finally into the ratchet-stop mount. Pay close attention to the orientation of the ratchet stop. Tighten with the 4mm Allen tool until the ratchet-stop holder nub holds the ratchet stop.

**5-5:** In same manner, attach the remaining ratchet stops and ratchet-stop holders to the front of the pole bracket, paying attention to the orientation of the ratchet stops (Fig. 5-1) to create the right pole bracket.

### Left Side Option

If assembling with the hand wheel and ratchets on the left side, remember that the ratchet stops and the ratchet-stop holder nubs go to the inside of the pole bracket when it is attached to the table. Keeping this in mind, follow **Steps 5-2** through **5-5** to assemble the left pole bracket, reversing the direction of the ratchet-stop, ratchet-stop bushing, ratchet-stop holder and ratchet-stop mount shown in Fig. 5-1.

## Step 6: Pole-Bracket Assembly

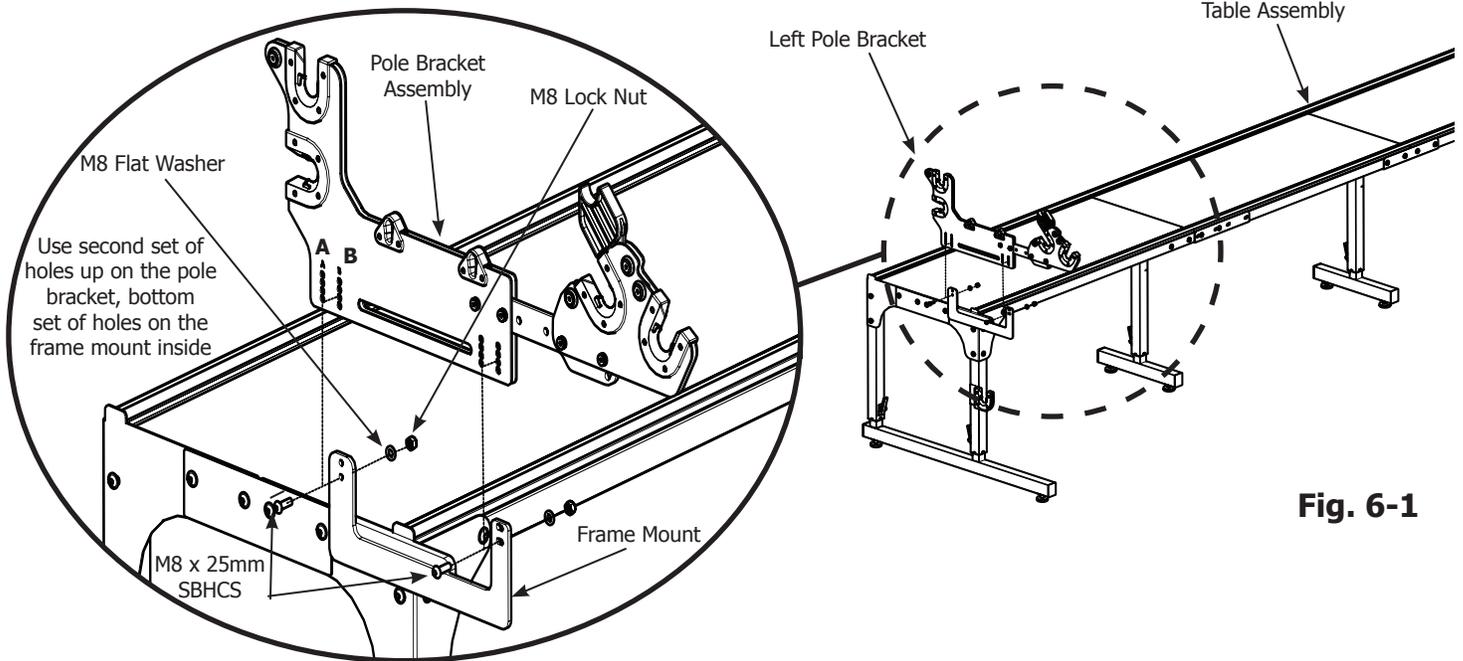


Fig. 6-1



**NOTE:** If setting frame up with hand wheel on the left side of frame, reverse position (switch sides) of pole brackets.

### Parts Needed

- 1 - table
- 1 - open-hole pole bracket w/ratchet-stops assembly
- 1 - plugged-hole pole bracket
- 4 - M8 x 25mm SBHCS
- 4 - M8 flat washer
- 4 - M8 lock nut

### Tools Required

- 13/17 mm wrench (provided)
- 5mm Allen wrench (provided)

### 6-1: Observe these items first:

- a. For 20-inch machines:** Align the B set of holes on the pole bracket assembly with the frame mount
- b. For 16 or 18-inch machines:** Align the A set of holes on the pole bracket assembly with the frame mount.
- c. Use the bottom set of holes on the frame mount**
- d. Use the 2nd set of holes up on the pole bracket assembly**

**6-2:** Slide the plugged-hole pole bracket down over the metal frame mount on the left frame side front. The pole bracket should straddle the frame mount. Attach the plugged-hole pole bracket to the frame using two (2) M8 x 25mm SBHCS. Align the screws through the second hole from the bottom of the pole bracket into the bottom hole on the frame mount and insert the screws from the outside to the inside of the frame. On the end of each screw, slide a flat washer followed by a lock nut, as shown in Fig. 6-1.

**6-3:** Visually level the pole bracket assembly and fully tighten the two screws using the 13/17 mm wrench and the 5mm Allen wrench provided.

**6-4:** Repeat **Step 6-1** and **Step 6-2** to attach the open-hole pole bracket with ratchet stops assembly, making sure the ratchet stops are on the inside of the frame.

## Steps 7: Pole to Frame Assembly

### Parts Needed

- 1 - frame assembly
- 1 - batting storage pole
- 1 - idler pole
- 1 - quilt-top pole
- 1 - backing pole
- 1 - take-up pole

**7-1:** Place the poles on the frame, as shown in Fig. 7-1.

 **NOTE:** The poles will snap past the plastic fingers, which are shown in Fig. 7-2.

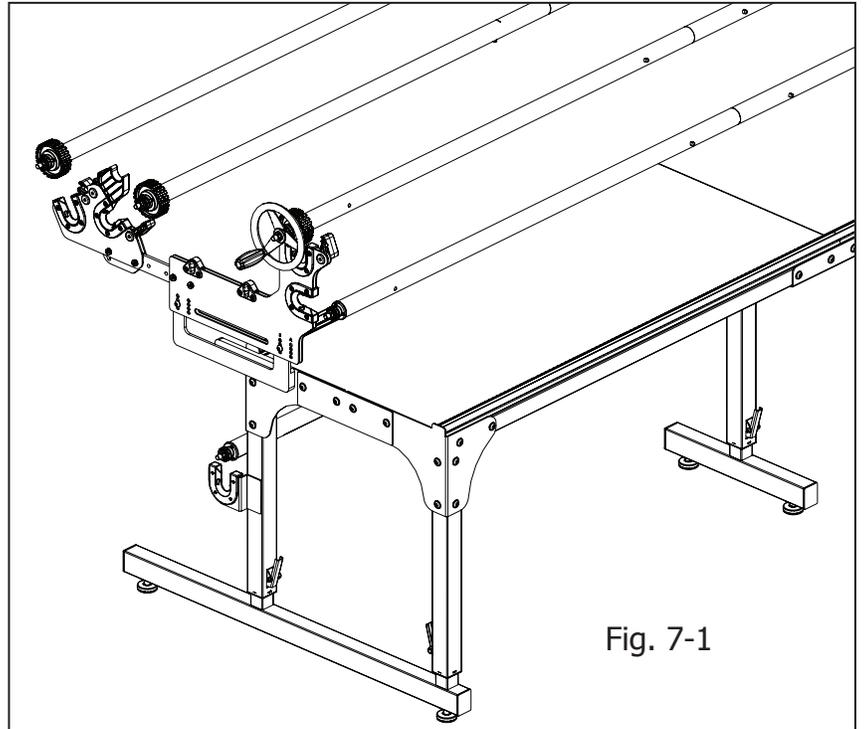


Fig. 7-1

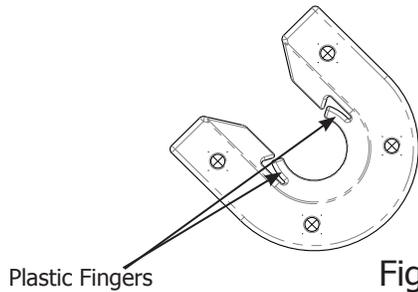


Fig. 7-2

## Section 8: Using the Pole Cradles

### To use the HQ Pole Cradles when loading the quilt and quilt batting

1. After loading the quilt backing and the quilt top, release the ratchets on the quilt-top pole.
2. Pull one side of the quilt-top pole out of the pole bracket and lay it in the corresponding pole cradle. Repeat on the other side of the frame.
3. Lay the quilt batting on the quilt backing, align it with the top of the backing, and smooth in place.
4. Unroll enough of the quilt top to reach the top of the quilt backing and batting.
5. Return both sides of the quilt-top pole to the pole brackets and put the ratchets back in place.
6. Proceed with stitching the plumb line, aligning the quilt top with the plumb line, basting the top edge and sides of the quilt top and attaching the clamps.

### To use the HQ Pole Cradles when advancing the quilt

1. When you're ready to advance your quilt, release the ratchet-stops on the top and backing poles. Advance the quilt by turning the take-up pole.
2. Pull one side of the quilt top pole out of the pole bearing and lay it in the corresponding pole cradle. Repeat on the other side of the quilt frame.
3. Reach under the quilt top to smooth and straighten the batting.
4. Return both sides of the quilt top pole to the pole brackets and put the ratchets back in place.
5. Proceed with smoothing and tensioning the quilt, basting down the sides of the quilt top and attaching the clamps.







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