HQ Precision-Glide Track Upgrade Kit QF09710 (HQ Adjustable Table or HQ QuilTable For HQ Sixteen Machine)

Assembly Instructions

The Upgrade Kit:

Is designed for the Adjustable Table or the QuilTable Table with the HQ Sixteen machine at 10 foot. The length is designed to fill the entire QuilTable and the same length on the Adjustable Table. The kit includes two table top pieces with 8 wheel track supports that are each about 5 feet long. It is designed to about 10 feet long and not shorter or longer. We created a size that was most usable and flexible for both tables and the majority of users.

HQ Precision-Glide Track Upgrade Kit QF09760 (HQ Studio Frame for HQ Sixteen Machine):

Is available for end users that purchased the original HQ Studio Frame with white 4W track at 12 foot. This kit includes the QF09710 and a 2' extension kit and when combined give the customer the full 12 foot width. It is designed to be about 12 feet long and not shorter or longer. We created a size that was most usable and flexible for a majority or users.

Contents

•Assembly Instructions for: QF09710 and QM09811
• 1**:** QF09535 Precision-Glide Carriage Assembly HQ 16 8W (separate box)
• 2: Table top assembly: Includes table top each assembled with 2 track support extrusions and 2 adjustable brackets with hardware:

- 8 screw M6x1.0x12mm socketed washer head
- 8 screw M6x1.0x16mm socketed flat head screw with 2 flats on the sides of threads
- 8 screw M6x1.0x16mm socketed flat head
- 8 nut M6x1.0 acorn
- 8 washer M6 large stainless steel
- 8 lock washer M6

Tools:

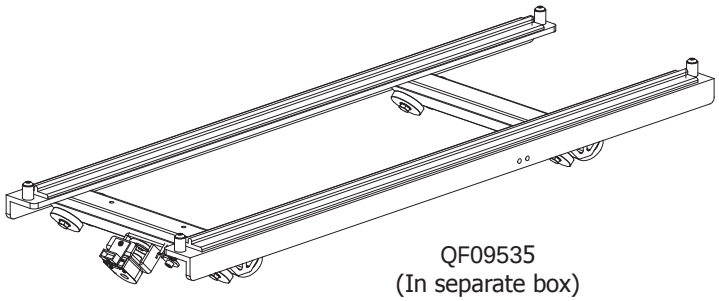
- 3mm Allen wrench
- 4mm Allen wrench
- 10mm/4mm Wrench
- 8mm Drill Bit
- 8mm Drill Bushing
- 2 nut M6 for fixture/drilling

Hardware:

- 12 - Screw M5x0.8x8 Socketed Button Head Screw
- 4 - Screw M6x1.0x32mm with 16.5mm socketed washer head.
- 9 - command strips,
- 4 - black track 10’
- 2 - track support coupler
- 1 - QM29711 Assy Machine Encoder HQ16 V3
- 1 - QM20795 Cable Terminator 18

Precision-Glide Machine Wheel Kit:

1 - QM09811 Precision-Glide Machine Wheel Kit



QF09535
(In separate box)

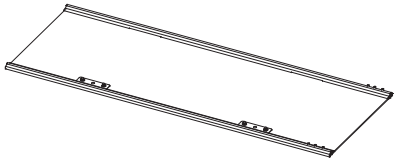
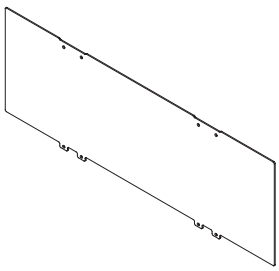


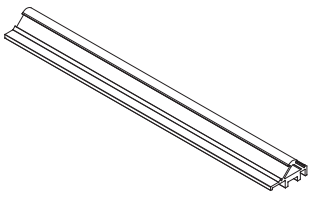
Table Top Assembly (2)

Part Number NA



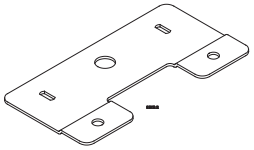
Plastic Table Top (2)
Part of table top assembly

QF09700-302



Track Support (4)
Part of table top assembly

QF09700-02



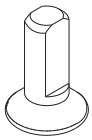
Adjustable Bracket (4)
Part of table top assembly
QF09700-10

M6x12 Washer Head Screw (8)
Part of table top assembly
QF09318-303

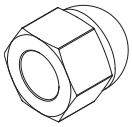
M6x16 Flat Head Screw (8)
Part of table top assembly
QF09700-14

M6 Flat Washer (8)
Part of table top assembly
QF09700-12

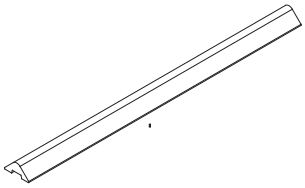
M6 Lock Washer (8)
Part of table top assembly
QF09700-16



M6 Flat Head Screw with two flats (8)
Part of table top assembly
QF09700-11

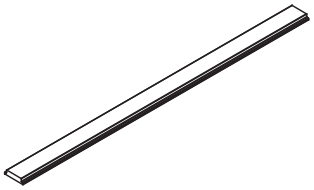


M6 Acorn nut (8)
Part of table top assembly
QF09700-13

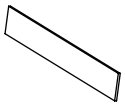


Track Support Coupler (2)
QF09318-03

M5x8 Screw (12)
QF09318-304

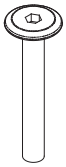


Black Track (4)
QF09700-04

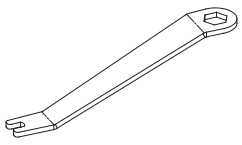


Command Strip (9)
QF10541

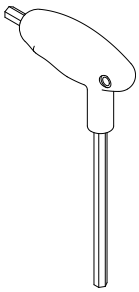
M6 Regular nut for drill fixture (2)
QF09725-17



M6x32 Socketed Washer Head Screw (4)
QF09725-03

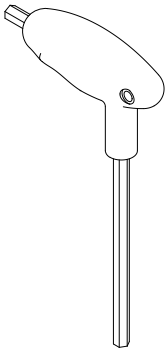


10mmX4mm wrench (1)
QF09700-15



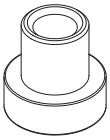
3mm Allen Wrench (1)

QF09318-111



4mm Allen Wrench (1)

QF09318-112

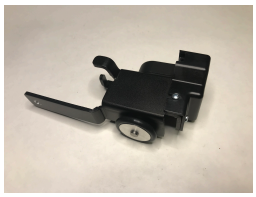


8mm Dill Bushing (1)

QF09725-02

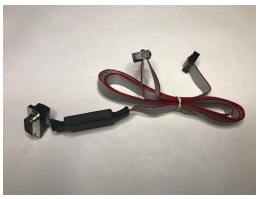
8mm Drill Bit (1)

QF09725-01



Assy Machine Encoder HQ16 V3 ((1)

QM29711



Cable Terminator 18 (1)

QM20795

Precision-Glide Machine Wheel Kit with Instructions (1)

QM09811

Step 1: Table Preparation

1-1: On the Adjustable Table, remove the poles, side arm clamps, and side arms. Set them aside in a safe place. On the QuilTable, remove the poles. If the side arms are in your way remove the mounting bolts and set them aside.

1-2: Clean the table top of all thread, dust and debris. Make sure all table leaves are firmly together with no gap between them.

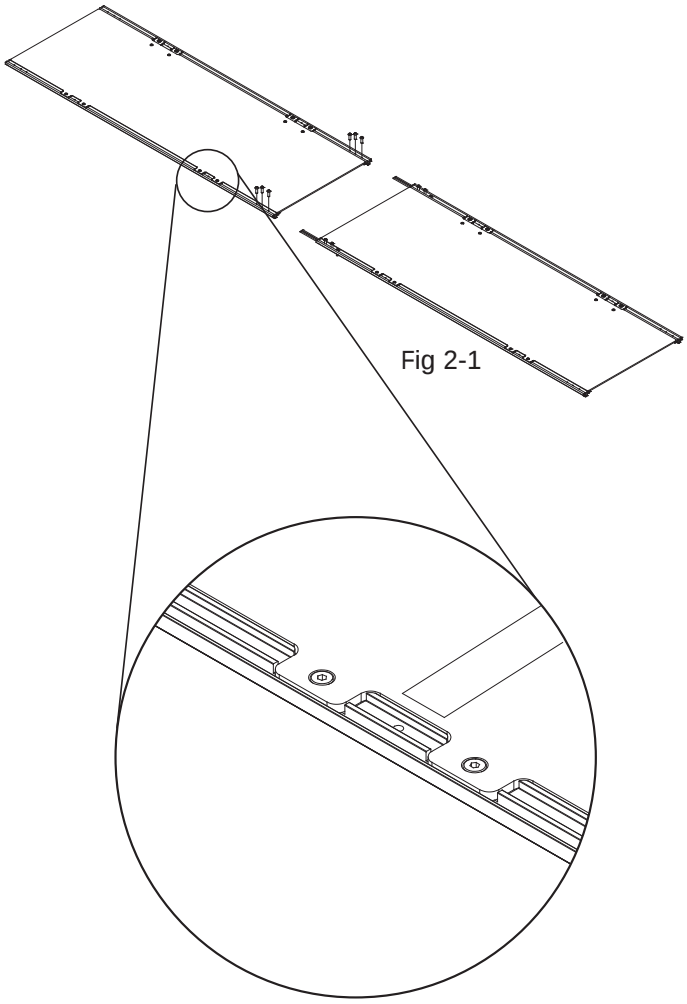


Fig 2-1

Step 2: Table Top and Track Support Joining

Parts needed
2-Table top assembly
2-Track support coupler
12-Screw, M5x8mm socketed button head

Tools Required
3mm Allen wrench (Provided)

2-1: Lay the two table top assemblies end to end with the track supports face down on a flat protective surface such as a carpeted floor or on the Adjustable Table or QuilTable surface. The table top assemblies should be orientated so the track support without the metal adjusting brackets is facing the front of the table when upside down, track support on table top (**Fig. 2-1 and Detail 2-1**). When the table top assembly is turned over, right side up, the track support without the metal adjustment brackets will be at the rear edge of the table top.

Detail 2-1 - Table shown upside down with non-adjusting track support at front edge of table

2-2: Check inside the ends of the track supports for burrs or debris and remove all foreign matter from the inside if necessary. (**Fig. 2-2**)

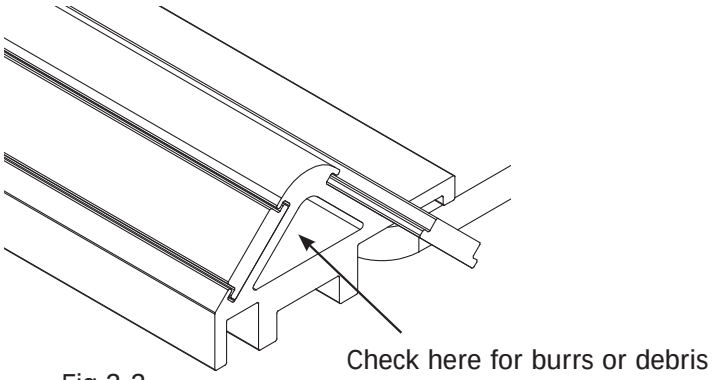


Fig 2-2

2-3: To prepare for joining the two table top assemblies together, screw one M5x8mm Socketed Button Head Screw into the third hole from the splice end on each of the two track support on one table top assembly, these serve as stop screws for the track support couplers. Fully tighten the screws with the 3mm Allen wrench provided. These screws will help align the coupler into the track support sections when joined. (**Fig. 2-3**)

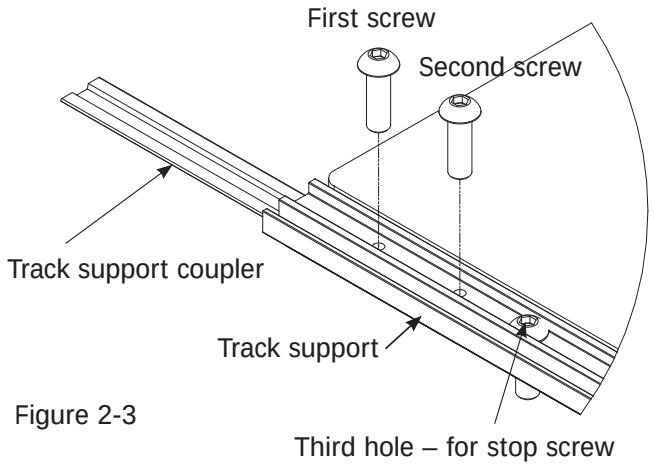


Figure 2-3

2-4: Insert a coupler into each of the two track supports on the first table top assembly up to the stop screw. Thread an M5x8mm Socketed Button Head Screw into the first and second holes on both track supports on the first table top assembly and lightly tighten. (**Fig. 2-4 and Detail 2-4**)

2-5: Repeat step 2-3 for the other table top assembly, to install the third screws/stop screws. (**Fig. 2-3 and Fig. 2-4**)

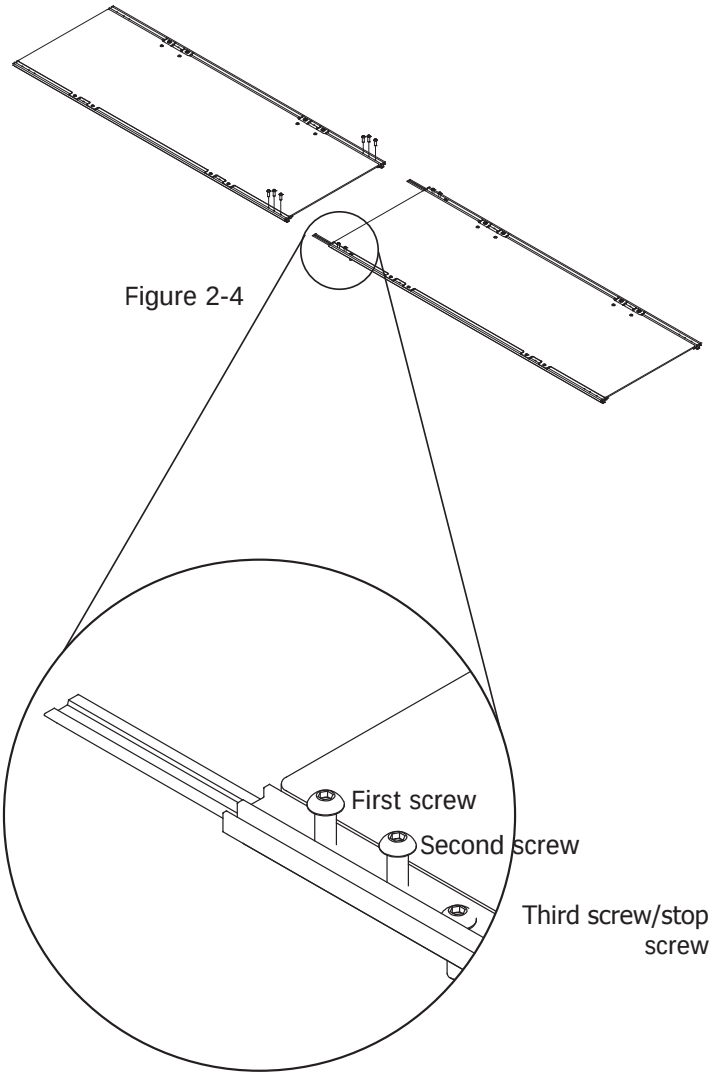


Figure 2-4

Detail 2-4

2-6: Slide the second table top assembly over to receive the two couplers, align the couplers and slide the two table top assemblies together as close as possible. There should be minimal gap. Hold the two adjoining track support sections tightly together and thread an M5x8mm Socketed Button Head Screw into the first and second hole on the two track supports on the second table top assembly and lightly tighten. (**Fig. 2-5**) You may need to gently rock the track support to seat the coupler.

2-7: Once alignment is assured, tighten all screws firmly.

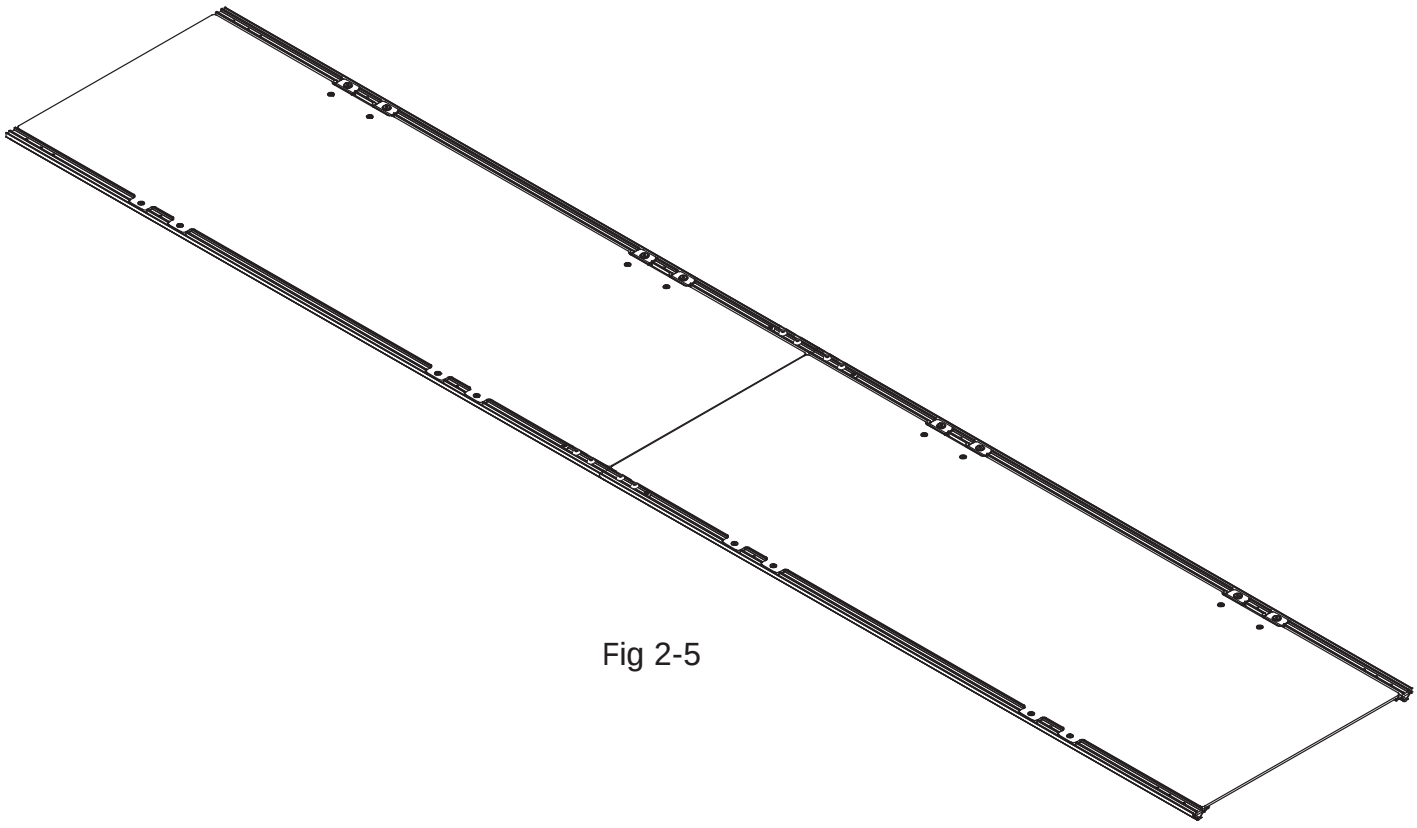
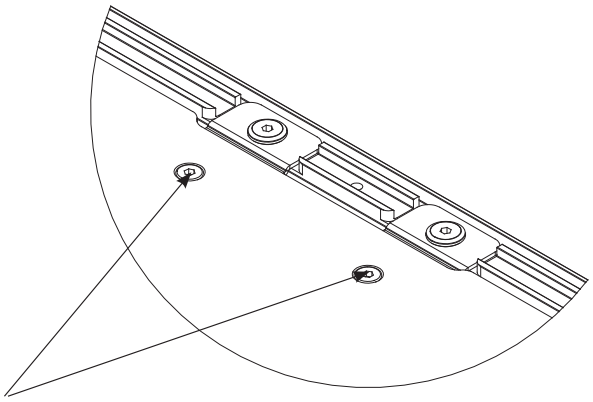


Fig 2-5

Step 3: Check Screws

Tools Required
4mm Allen wrench (Provided)

3-1: Important: The flat head screws on the stainless steel adjusting bracket do not turn, they have two flats that fit into slots in the adjusting bracket to prevent them from turning. (**Fig. 3-1**) **If you turn the head of these screws they will become damaged and or break.** This may also damage the adjusting bracket. The acorn nuts on these special flat head screws on the adjusting bracket will be checked and tightened later once the final track support adjustments are made.



These screws do not turn, they have flats for adjusting bracket – do not turn. Tighten at the acorn nut only.

Figure 3-1

3-2: Check the (8) large washer head screws on the track support on the adjusting bracket side to make sure they are tight. (**Fig. 3-2**) Check the (8) flat head screws on the track support without adjusting brackets to confirm they are tight. (**Fig. 3-3**) These screws turn and tighten into the track support.

Check these for tightness

Large washer head screws

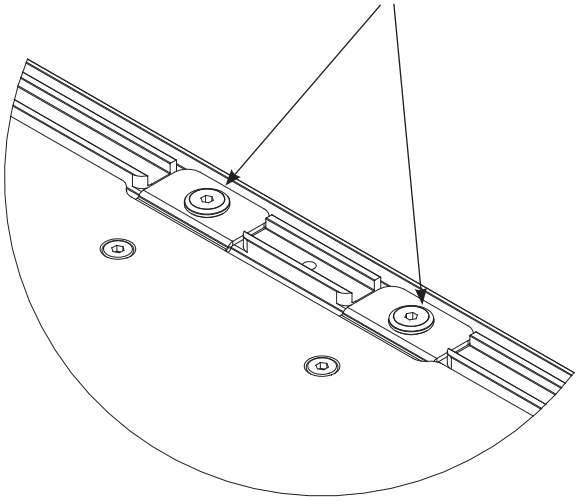


Figure 3-2

Flat head screws on non-adjusting track support

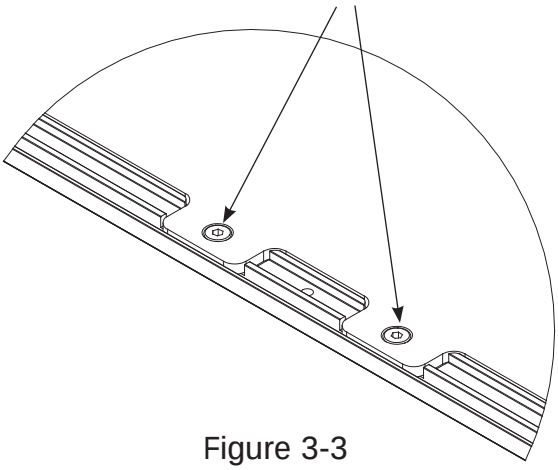


Figure 3-3

Step 4: Install the Command Strips

Parts Needed
9- 3M Command Strips® (8 plus 1 extra included)
1- Table top assembly

4-1: Place a 3MCommand Strip® on the bottom of the table top between the two screws that hold the tracks to the table top at four locations per table top piece. (**Fig. 4-1 and Fig 4-2**)

HINT: We recommend the red side go toward the black plastic table top assembly. The black side is labeled "wall side" and will go down to the adjustable or quiltable top. Leave the black protective cover on for now, it will be removed after when the table top assembly is positioned correctly onto the adjustable or quiltable top.

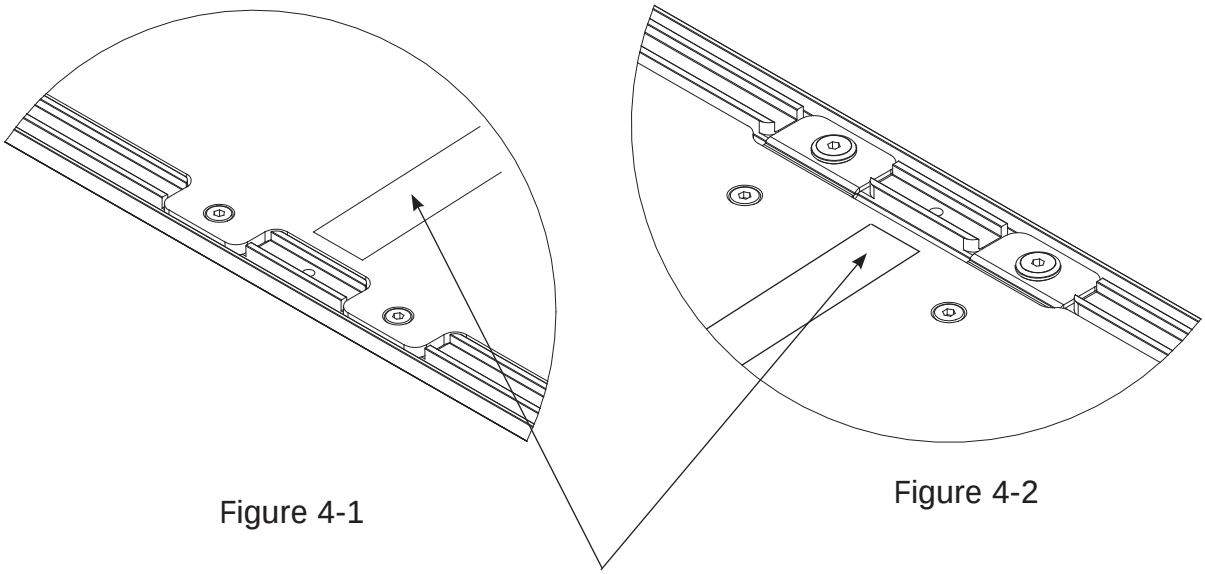


Figure 4-1

Figure 4-2

Place command strips here

Step 5: Turn Over the Table Top

Parts needed
1-Table top assembly

Tools Required
1-Second person

5-1: Now the two table assemblies are joined it is time to carefully turn them over. Care should be taken to turn the assembly over so the couplers will not be bent and no damage will occur to the assembly. It is recommended that two people turn the assembly over being careful to keep it as straight as possible. Keep as much weight and stress off the center joint of the table assembly as possible. (**Fig.5-1**)

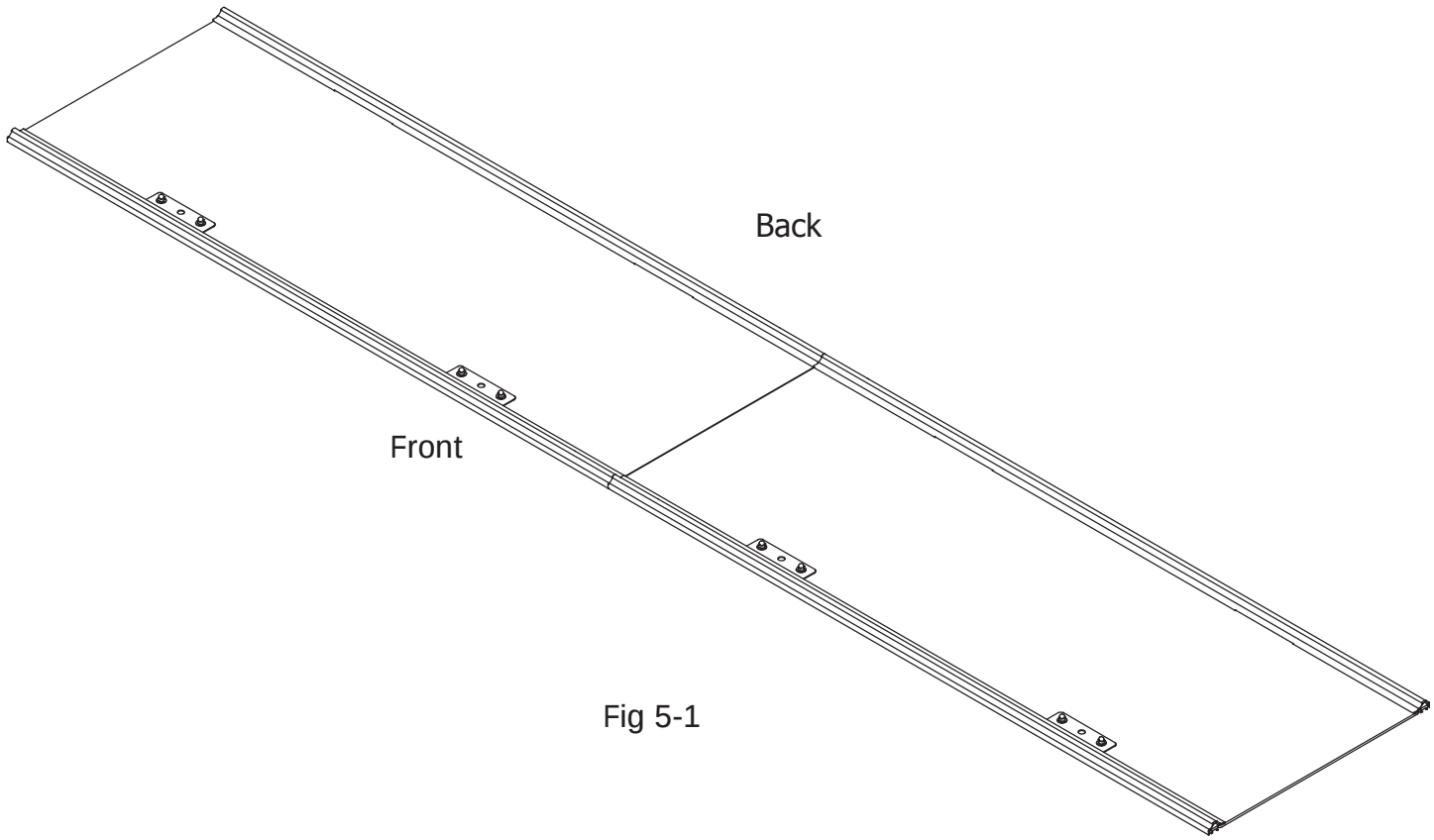


Fig 5-1

Step 6: Insert Black Track

Parts Needed
4-Black track 10'
1-Table top assembly

6-1: Insert a black plastic track completely into both sides of the two aluminum track supports. The plastic track should slide into the track support easily. If a plastic track binds slightly, try backing the track out a little, then, try pushing it further. If the track binds badly, check the track supports for debris, burrs misalignment or damage. (**Fig. 6-1**)

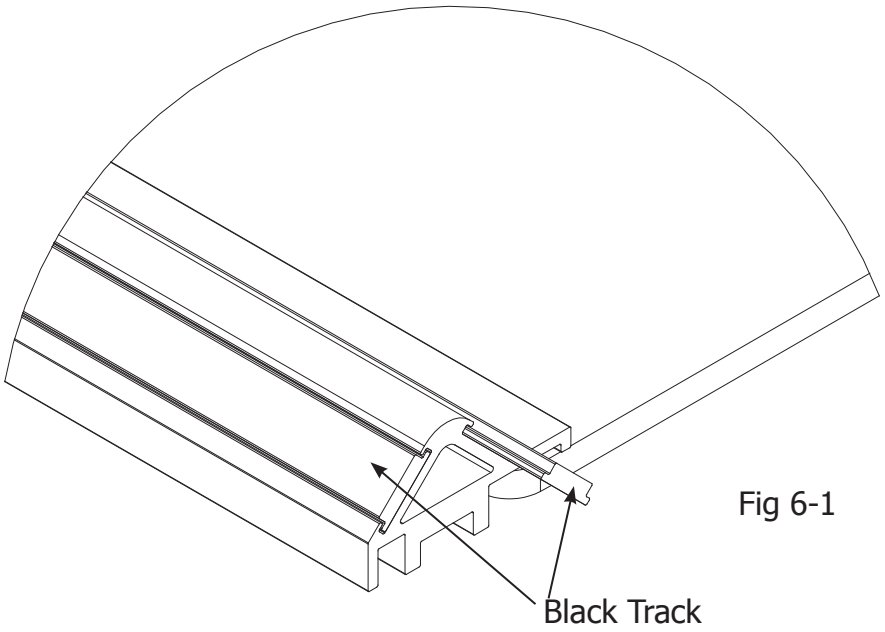


Fig 6-1

Step 7: Position the Table Top

Parts needed
1-Table top assembly
8- Command Strips

Tools Required
1-Tape measure (not provided)
1-Pencil, (not provided)
8- Spacers (not provided)Spacers may be wood dowels, pencils, pens or whatever to provide approximately 3/16" to 3/8" thickness.
1-Second person

Important: Before using the screw down kit it is important that the table leaves are all pulled firmly together to remove all gap between them.

7-1: Using a tape measure, mark the center of the table/frame top, left to right, with a pencil. Position the table top track assembly left to right with the center joint line over your center frame top line. Position the table top track assembly so the aluminum track support without the adjusting brackets is flush with the back edge of the table/ frame top. (**Fig. 7-1**)

HINT: Make sure the stainless steel adjusting brackets are towards the front of the table.

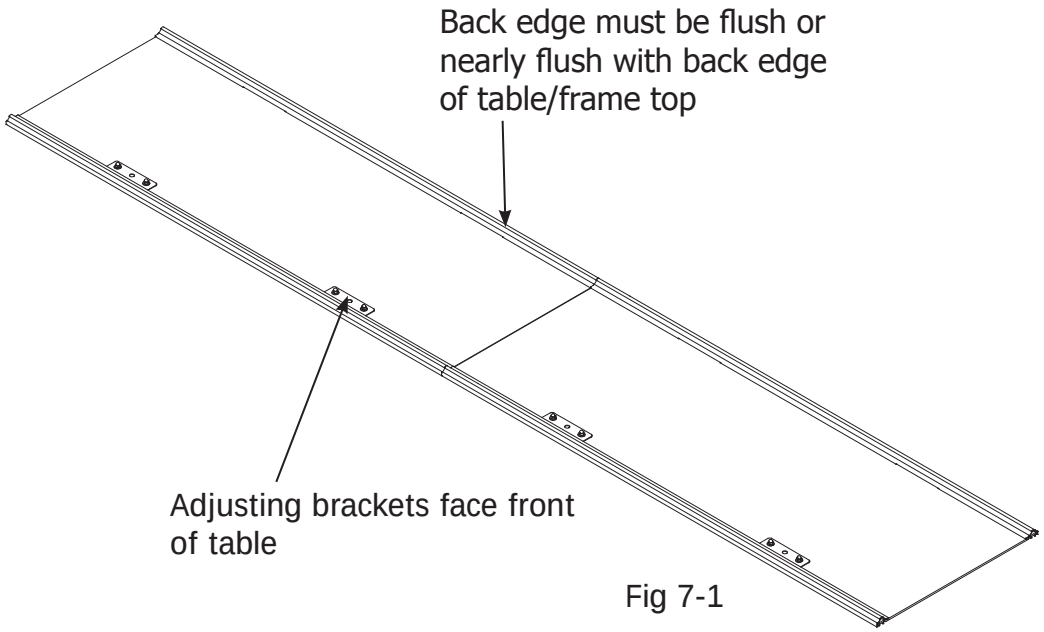


Fig 7-1

HINT: On the Adjustable Table the aluminum track support should be no more forward than the inside edge of the protective edging on the table top (about 1/8″). On the QuilTable the aluminum track support should be no more forward than the inside radius of the QuilTable Frame (about ¼″). **This is important so the carriage encoder will not interfere with table top assembly and will operate correctly.**

7-2: Once you have determined the position of the table top assembly, carefully raise the edges and place a spacer to the side of each 3M Command Strip®, so the entire assembly floats above the table top.

HINT: These will make it easier to position and stick down the top properly when you are ready for each command strip.

7-3: While the second person is holding the table top assembly in place, carefully remove the backing from each 3M Command Strip® and stick the table top assembly into place as you pull out the spacers.

HINT: We recommend you start at the back edge, and work across the length of the table aligning the table top assembly to the back edge of the table top as explained above.

Step 8: Align Tracks to the Carriage

Parts needed
1-table top assembly
1-table
1-carriage

Tools Required
1-10mm wrench (Provided)

Important Note: If you will be using the screw down kit described in Step 9 proceed to Step 9 before Aligning the tracks to the Carriage in Step 8.

8-1: Loosen, but do not remove the acorn nut on each of the four metal adjusting brackets on the track support at the front of the table.

8-2: Place the carriage on the tracks at one end of the table. Roll the carriage back and forth along the length of the table, establishing the distance between the two tracks, taking care to check that the wheels are engaging the track on both the front and the back of the carriage.

8-3: With a machine on the carriage, roll the carriage the entire length of the table, working the tracks into the wheels as you go. Lightly tighten the two acorn nuts on each metal adjusting bracket as you move down the table. Check the carriage to verify that it rolls smoothly and that both ends of the carriage are engaging the tracks. If you find a section of track where the carriage rocks back and forth when the machine is moved all the way forward or back, loosen the acorn nuts and adjust the front track until the carriage rolls smoothly and does not rock, then re-tighten the acorn nuts on the metal adjusting bracket.

8-4: Finally, fully tighten the two acorn nuts on the four adjusting brackets. **Do not over tighten the acorn nuts onto the screws with flats.**

Step 9: Screw Down Kit

Parts Needed
4-M6x32mm washer head screws

Tools Needed
1-10mm/4mm Wrench (Provided)
1-4mm Allen Wrench (Provided)
1-8mm Drill Bit (Provided)
1-8mm Drill Bushing (Provided)
1-Electric Drill (Not Provided)
1-Second Person

Important: Before using the screw down kit it is important that the table leaves are all pulled firmly together to remove all gap between them.

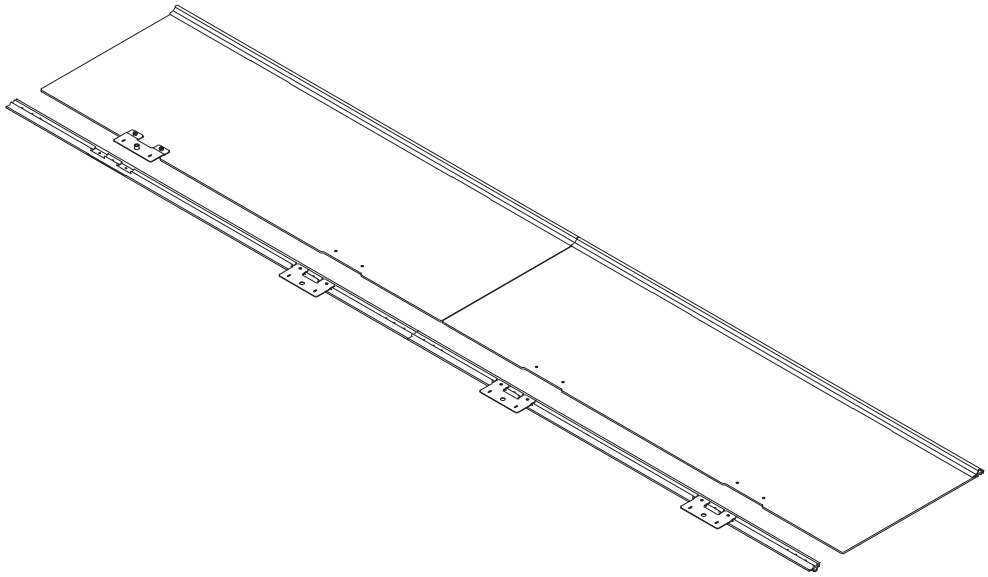


Fig 9-1

9-1: To hold the table top assembly more firmly in place, a screw down kit is provided.

9-2: Remove the two acorn nuts from each of the 4 adjusting brackets at the front of the table with the 10mm wrench provided. (**Fig. 9-1**)

9-3: Flip the track assembly upside down and remove the two screws with washer heads from just one of the adjusting brackets with the 4mm Allen wrench provided. (**Fig. 9-1**) This will be used as a drill template along with the drill bushing to help drill the hold down screw holes in the correct position.

9-4: Insert the drill bushing through the bottom of the adjusting bracket so the drill bushing flange is under the bracket and so the top of the drill bushing protrudes above the bracket. (**Fig. 9-2 and 9-3**)

9-5: Rotate the adjusting bracket 180° and place the two round holes over the two screws with flats on the side. The two mounting tabs with round holes should be facing down. (**Fig. 9-2 and 9-3**)

9-6: Lightly tighten the two regular M6 nuts onto the two screws with flats on the side with the 10mm wrench provided. This will position the drill bushing properly for drilling the 8mm hole.

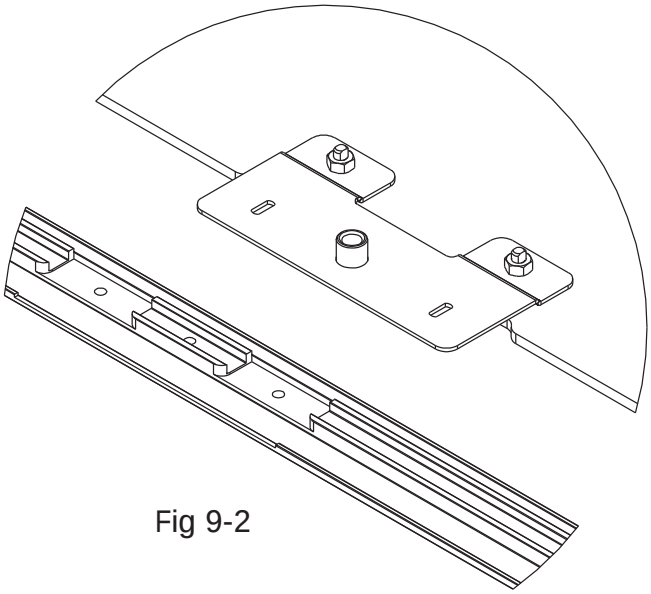


Fig 9-2

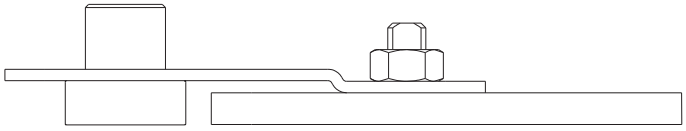


Fig 9-3

HINT: if you over tighten the two regular nuts you may have a hard time getting them back off – do not over tighten them! The wrench has a 4mm side to help hold the screw if needed.

9-7: Using an electric drill (not provided) and the 8mm drill bit provided, place the drill bit into the drill bushing provided and carefully drill through the table top, making sure you drill straight and not at an angle.

9-8: Repeat **Steps 9-5** through **9-7** to drill holes for the other three adjusting brackets.

9-9: Reinstall the bracket you have been using as a drill template back onto the aluminum track extrusion with the two screws with washer heads. Tighten the screws with the 4mm Allen Wrench provided.

9-10: With the help of a second person, place the (4) adjusting brackets over the 4 sets of screws with flats. Install a flat washer, lock washer and acorn nut on each screw. Finger-tighten only for now.

9-11: Thread the (4) M6x32mm Socketed Washer Head Screws up through the table top and into the aluminum track supports. Leave them loose for now.

9-12: Place the carriage on the tracks and adjust the track alignment as needed and described in **Step 8 page 15**.

9-13: Lastly, tighten fully the M6x32mm Socketed Washer Head Screws up through the table top. Test one more time with a machine on the carriage to ensure that the tracks are aligned to the carriage and that the carriage does not rock when moved all the way forward or back as it moves up and down the table.

Step 10: Machine Encoder and Wheel Installation

10-1: Use the Precision Glide Wheel Instructions to install the new machine encoder HQ16 V3 (QM29711) and wheels to the machine.

Step 11: Cable Connections

11-1: Discard the old Stitch Regulation termination cable. A new longer cable is provided, QM20795.

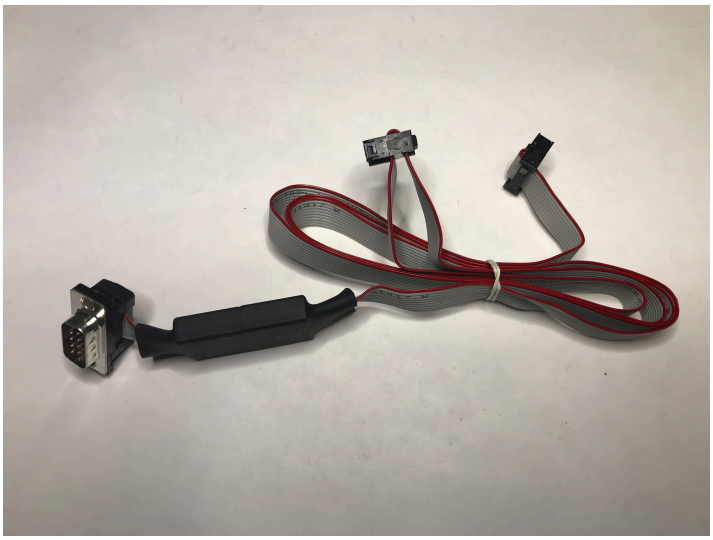


Fig 11-1

11-2: Locate the new QM20795 stitch regulation terminator cable and plug the D 9 pin connector into the back of the machine control-pod.

11-3: Run the middle connection, with a wire going in and a wire going out around behind the machine, under the bottom of the power-pod cover and to the machine encoder.

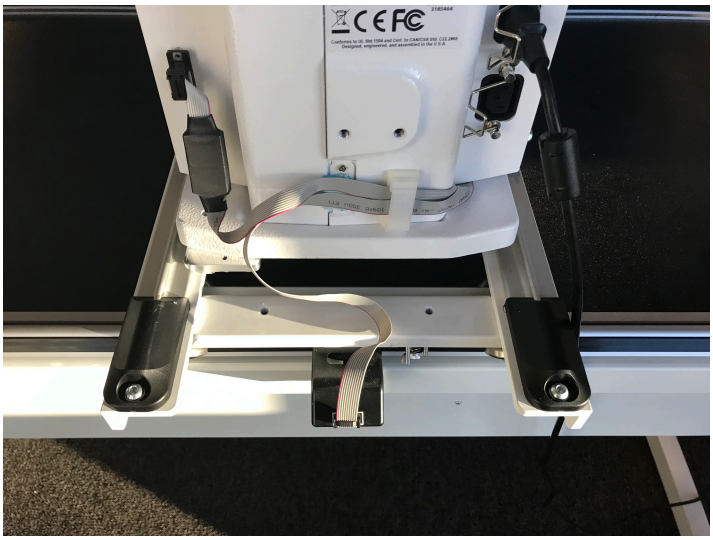


Fig 11-2

11-4: Run the remaining connector at the end of the cable back under the power-pod cover and to the carriage. Plug it into the carriage encoder.

11-5: Locate the flat cable clamp, QM11881 and stick it to the back of the machine as shown.

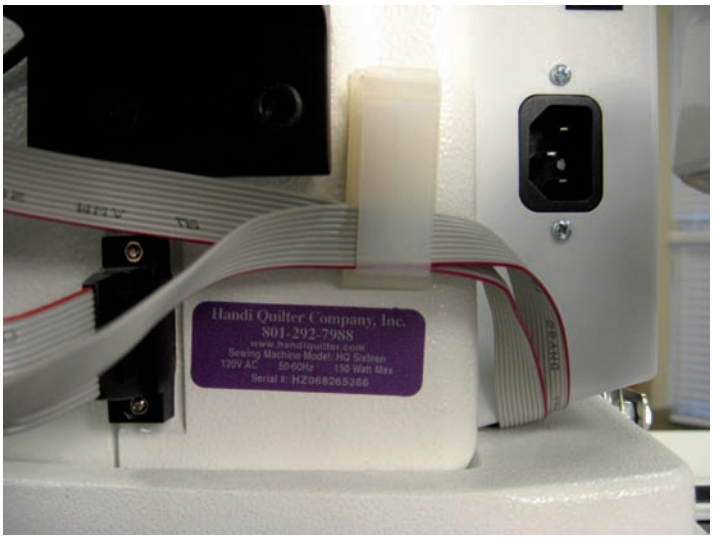


Fig 11-3