

## Getting Started

### Monitor Styles

1. Identify the monitor style on your Pro-Stitcher by comparing to the photos at the right; newer display photos are not shown, see other displays as applicable. The newer displays utilize the QM03821-GEN3 upgrade kit. Please see the table on the following page.
2. Find the Part Number in the list below that is associated with your monitor; see page 2 for more detailed information.
3. Go to the indicated page for the Display Upgrade Parts List and Installation Instructions.

### Hardware Upgrade Part Numbers

**IEI Computer/Monitor** (Figure 1)  
**QM03821-GEN2** Pro-Stitcher Display Upgrade

See Page 2 for more detailed information.

**Innovatek Monitor** (Figure 2)  
and  
**Lilliput Monitor** (Figure 3)  
**QM03820-GEN2** Pro-Stitcher Display Upgrade

See Page 2 for more detailed information.

**Note:** Please see the next page for a list of complete part numbers for specific machine. These kits include the appropriate hardware and cables for the different machines and the software for the machines on the display.



**Figure 1 IEI Computer/Monitor  
QM03821-GEN2**



**Figure 2 Innovatek Monitor  
QM03820-GEN2**



**Figure 3 Lilliput Monitor  
QM03820-GEN2**

<b>Pro-Stitcher Display Upgrade</b>	<b>Brand</b>	<b>Machine</b>	<b>Machine Models</b>	<b>Coming from Display</b>
<b>Part Number:</b> QM03820-GEN2  <b>Description:</b> Hardware and Display Upgrade 16/18/24"  <b>Pages:</b> 3-9	All	16/18/24	Avante, Coronet, Crown Jewel, Fusion, HQ Sixteen, Simply Sixteen, Sweet Sixteen,	Lilliput, Innovatec
<b>Part Number:</b> QM03821-GEN2  <b>Description:</b> PS Display Upgrade-GEN2  <b>Pages:</b> 10-13	All	16/18/24	Avante, Coronet, Crown Jewel, Fusion, HQ Sixteen, Simply Sixteen, Sweet Sixteen, SMP KQII 18	IEI, EEEPC, W500, HP Omni, W700, Aspire Switch 11
<b>Part Number:</b> QM03821-JA16/18  <b>Description:</b> PS Display Upgrade-Janome 16/18  <b>Pages:</b> 14-18	Janome	16/18	QMP16, QMP18	IEI, EEEPC, W500, HP Omni, W700, Aspire Switch 11
<b>Part Number:</b> QM03821-INF  <b>Description:</b> PS Display Upgrade-Infinity  <b>Pages:</b> 19	HQ	26	Infinity	N/A
<b>Part Number:</b> QM03821-GEN3  <b>Description:</b> PS Display Upgrade-GEN3  <b>Pages:</b> 21	All	GEN3 20/24	Amara, Forte, QMP20, Regalia	N/A

# QM03820-GEN2 Parts List

**Pro-Stitcher Display Upgrade from the following displays:**

Innovatek Monitor and Lilliput Monitor

**On all brand machines, 16/18/24, these models:**

Avante, Coronet, Crown Jewel, Fusion, HQ Sixteen, Simply Sixteen, Sweet Sixteen.

## Included Parts

- (1) **QM20899** VT-TPC12.1, 12" Pro-Stitcher Touch-Screen Display
  
- (1) **QM11185** Pro-Stitcher Display Mounting Bracket Assembly (w/base) VESA75
  
- (1) **QM20811-9** Cable PS USB REVA
- (1) **QM20812-8** Cable PS Power 12v to PC
- (1) **QM20820** Board PS SER SR Adaptor
- (1) **QM24852** PS Cable Assembly (QM24851 Cable-PS Serial Motor 24, QM24850 Cable-PS PC Serial 18/24, QM10066 Tubing-Corrugated PS, 88" with power both ends).
  
- (1) **QM11881** Clamp-Cable Flat
- (4) **QM11882** Holder-Cable Press-in
- (2) wire tie mounts
- (4) 6" wire ties
- (1) **QM21869** PS USB Flash Drive 8GB
- (1) **QM30014** Pro Stitcher Quick Reference Guide
- (1) Instructions (these instructions)

 **NOTE:** The kit has the same hardware and display for all of the machines listed above. The display has software that recognizes the machine connected and configures accordingly.

# Installation Instructions

## QM03820-GEN2

### for Innovatek and Lilliput Monitors (Computer Mounted under Carriage)

#### for:

Avante, Coronet, Crown Jewel, Fusion,  
HQ Sixteen, Simply Sixteen, Sweet Sixteen

1. Disconnect the long VGA cable from the back of the Pro-Stitcher bracket (Figure 17).
2. Remove the handlebar mounting bolts from the handlebar (HQ Sixteen with tilt-screen owners will have a small bracket with one mounting bolt after the handlebar is removed that will need to be removed) and carefully remove the bracket and monitor from the quilting machine (Figure 18).

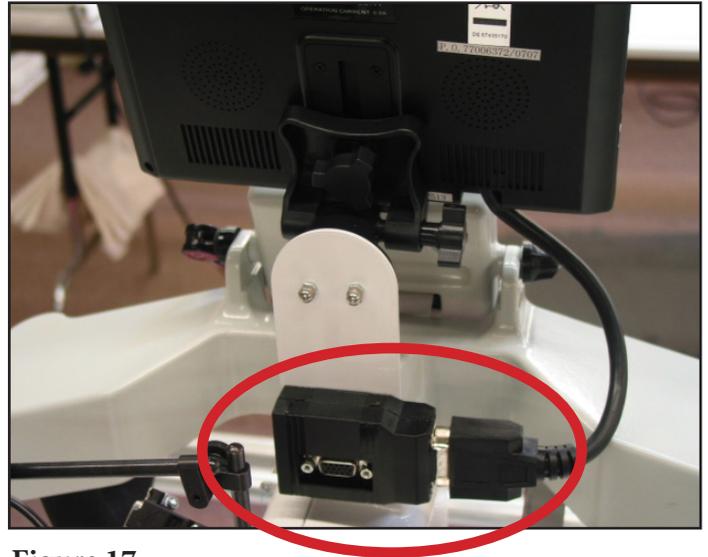


Figure 17



Figure 18

3. Attach the new display bracket to the quilting machine using the handlebar bolts in the same way the previous bracket was mounted.
4. With the frame poles removed, disconnect the stitch regulator cable from the back of the C-Pod and the machine encoder and carefully lift the quilting machine off the carriage (Figures 19 and Figure 20).
5. Turn the carriage over and disconnect the VGA cable, the gray 9-pin serial cable, the stitch-regulator ribbon cable and the power cord from the black box (you should no longer have any cables attached to the black box) (Figure 21).



Figure 19



Figure 20

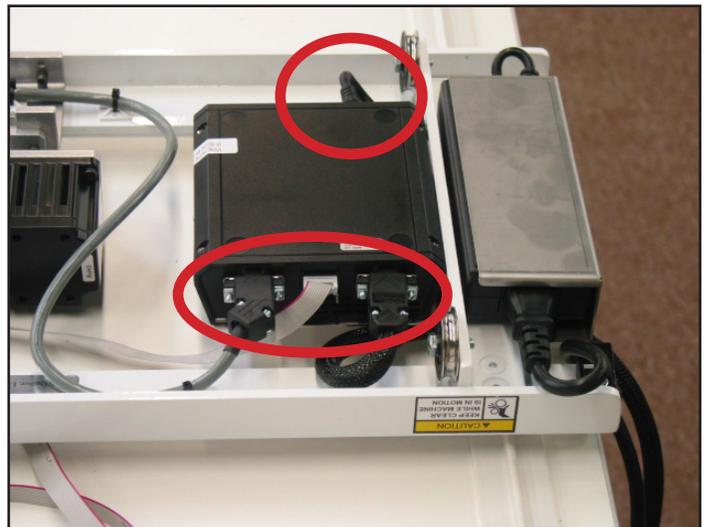


Figure 21

6. Disconnect the other end of the gray serial cable from the X-axis motor (there should still be a short black cable connecting the two motors together) (Figure 22).
7. Clip any plastic cable ties that are holding the gray serial cable to the carriage and completely remove the gray cable from the carriage (Figure 23).
8. Connect the new black cable harness to the X-axis motor and route the cable back toward the rear of the carriage under the Y-axis lever similar to the way the old gray serial cable had been mounted (Figure 24).

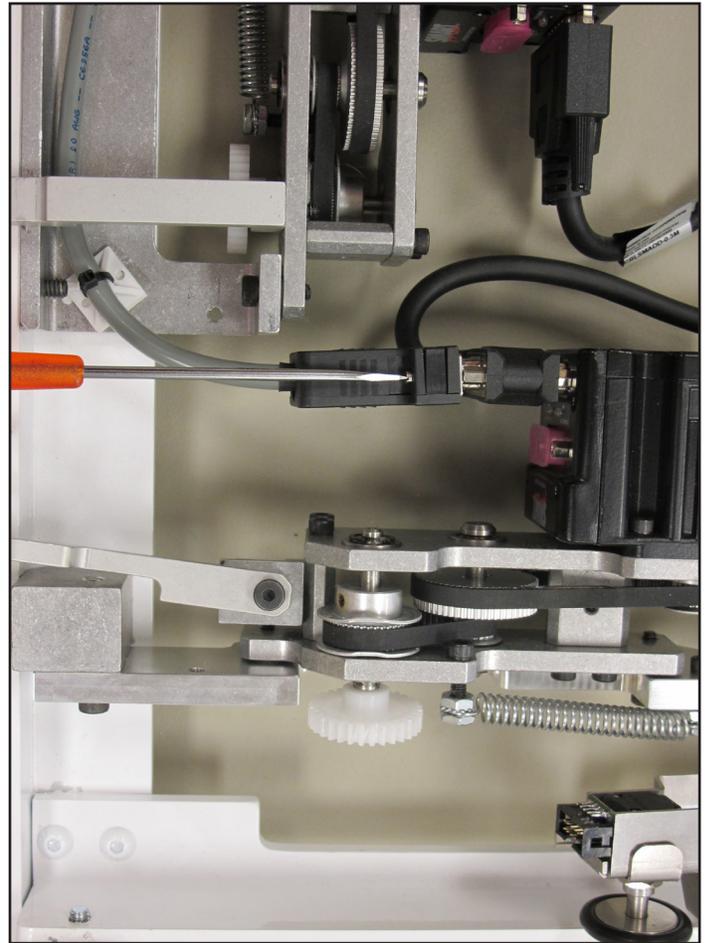


Figure 22



Figure 23

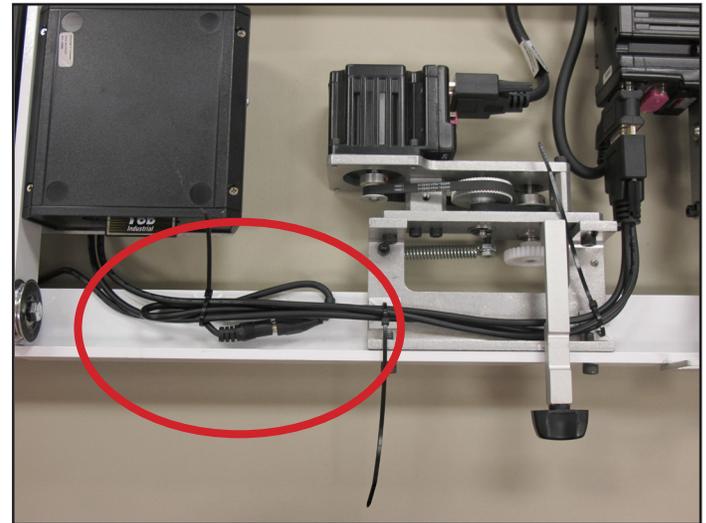
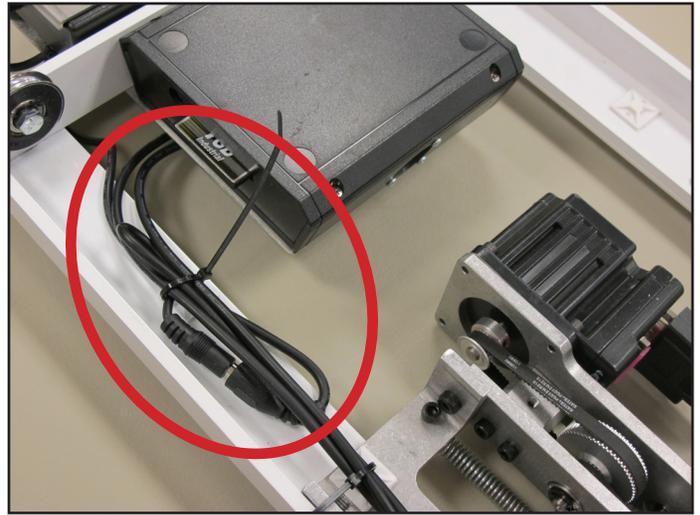
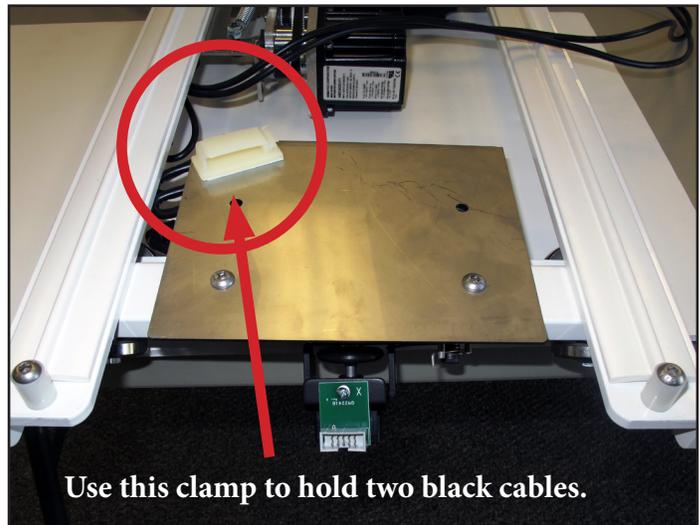


Figure 24

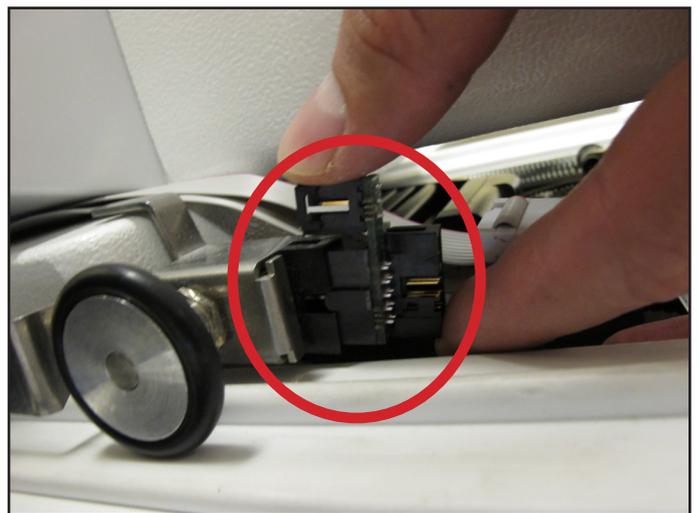
9. Using new cable ties (and mounting pads if necessary), attach the new cable harness to the underside of the carriage in such a manner that the X-axis motor can still freely move up and down with the lever and the cables do not interfere with any other components.
  - a. It may be necessary to fold the barrel connector cable over on itself prior to mounting with the cable ties as this cable may be slightly longer than needed (Figure 25).
10. Route the black cable harness up over the computer bracket and use the flat cable clamp to hold the two black cables (not the cable with the 3-pin connector) to the top surface of the old computer/power supply bracket (Figure 26).
11. Plug the new adapter board into the Y-axis encoder (Figure 27).



**Figure 25**



**Figure 26**



**Figure 27**

12. Route the 3-pin black cable under the P-pod and plug it into the mating 3-pin connector on the new adapter board (Figure 28).
13. The current flat stitch regulator cable may continue to be used, but the cable will be too long and have one extra connector. With the stitch regulator cable plugged into the carriage encoder, leave the last connector disconnected and plug the 10-pin connector closest to the 9-pin D-connector into the machine encoder adapter board (Figure 29). Use a cable tie to tie up the excess cable that is left after the quilting machine is fully extended toward the back.

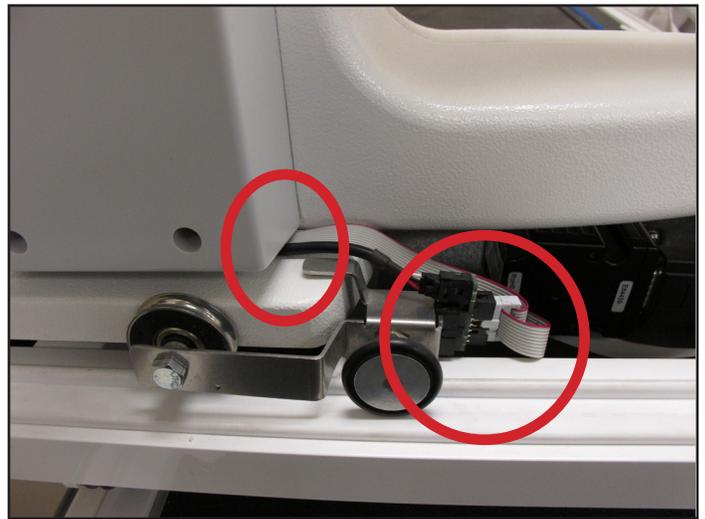


Figure 28

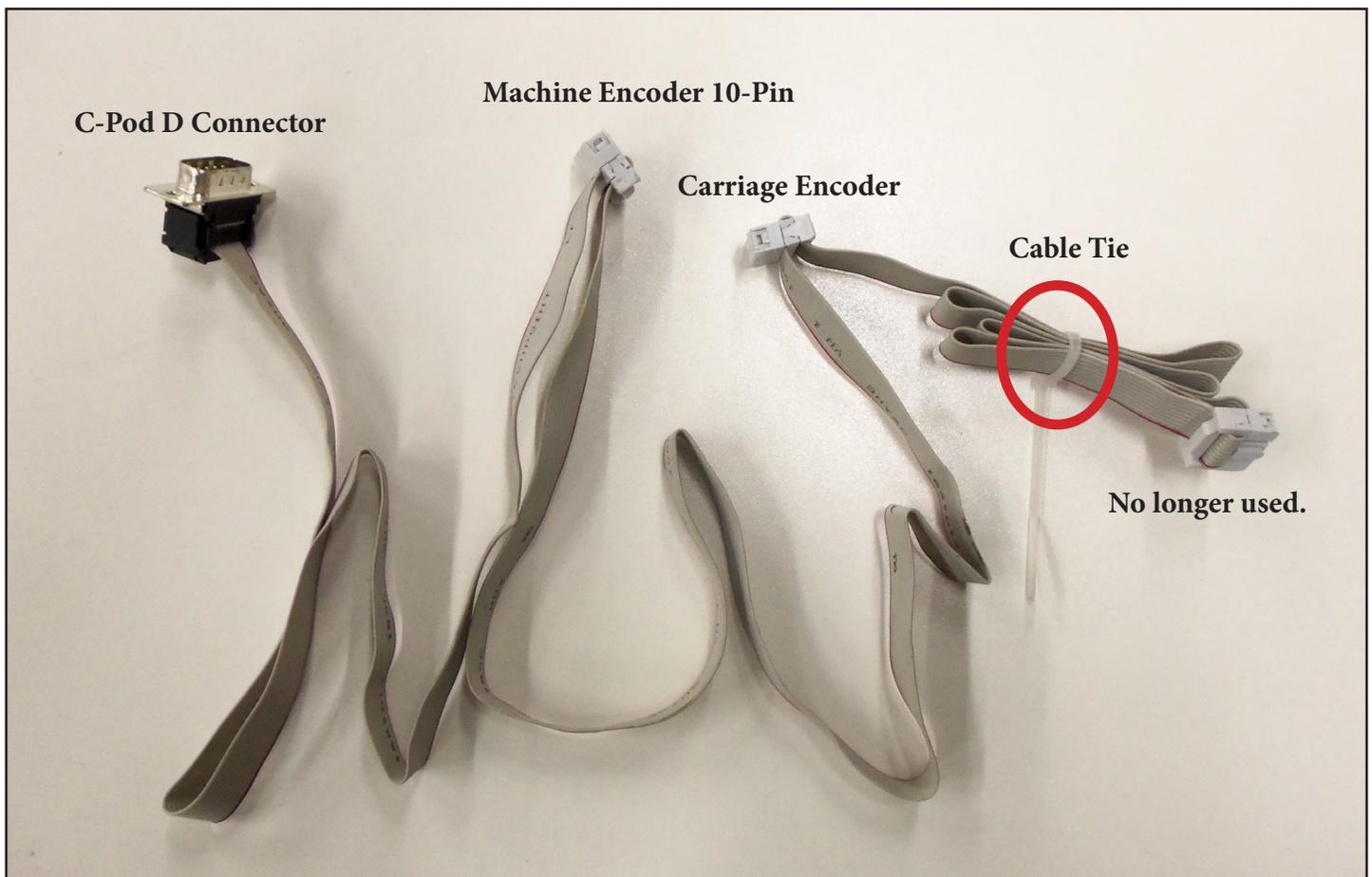


Figure 29

14. Route the new black cable harness up the back of the machine and across the top to the black box on the back of the new display bracket. Use the black plastic cable harness clips to hold the cable harness away from the rotating hand wheel and keep it attached to the top of the machine (Clips shown circled in Figure 30).

15. The display mount has four captured screws for the display (circled). Start all four screws into the back of the display and then tighten them firmly with a 3mm hex tool. Do not over tighten the screws. (Figure 31).

 **NOTE:** The display may have come pre-assembled to the bracket.

16. Attach the two 9-pin serial cables to the appropriate connectors labeled # 1 and #2 on the black box mounted on the back of the new bracket (Figure 31).

16. Plug the barrel connector (from the third cable wrapped together with the two serial cables) into the middle connector on the bottom of the black box (Figure 32).

17. Plug the small power and USB cables from the bottom of the black box into the display.

 **NOTE:** the display has two USB connections, it does not matter which one you use.

19. Download the latest Pro-Stitcher user manual from the [prostitcher.com](http://prostitcher.com) / [prostitcher](http://prostitcher). Refer to the instructions for connecting the USB and power cables.

20. Download and install the current version of Pro-Stitcher from [prostitcher.com](http://prostitcher.com) / [prostitcher](http://prostitcher) - software - update /

 **NOTE:** the black box has two USB connections that can be used for the USB memory stick, a USB mouse, etc.



Figure 30

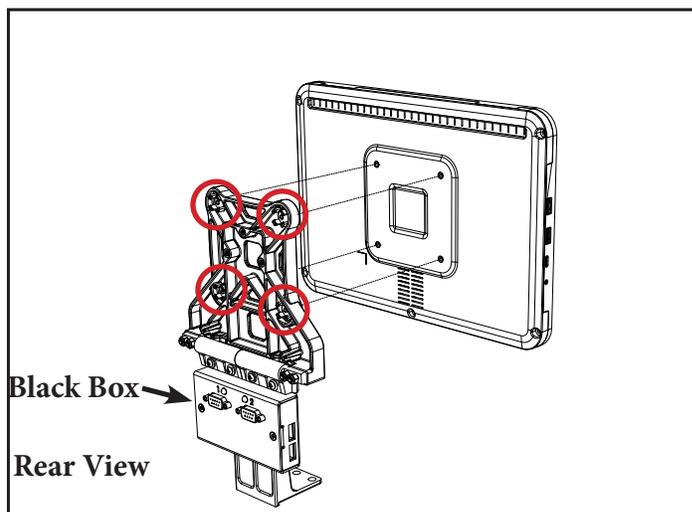


Figure 31

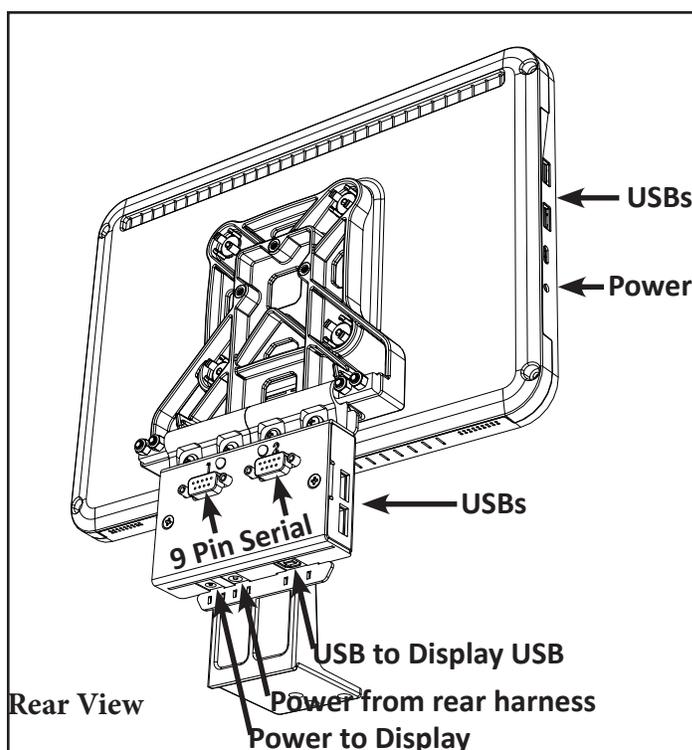


Figure 32

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# QM03821-GEN2 Parts List

**Pro-Stitcher Display Upgrade Only, from the following displays:**

IEI, EEPC, W500, HP Omni, W700, Aspire Switch 11, Alpha 12, and Switch 3...

**On all brand machines, 16/18/24, these models:**

Avante, Coronet, Crown Jewel, Fusion, HQ Sixteen, Sweet Sixteen, Simply Sixteen, SMP KQII 18

## Included Parts:

- (1) QM20899 VT-TPC12.1, 12" Pro-Stitcher Touch-Screen Display
  
- (1) QM11185 Pro-Stitcher Display Mounting Bracket Assembly (w/base) VESA75
  
- (1) QM20811-9 Cable PS USB REVA
- (1) QM20812-8 Cable PS Power 12v to PC
- (1) QM21869 PS USB Flash Drive
- (1) QM30014 Pro Stitcher Quick Reference Guide
- (1) Instructions (these instructions)

 **NOTE:** The kit has the same hardware and display for all of the machines listed above. The display has software that recognizes the machine connected and configures accordingly.

# Installation Instructions

QM03821-GEN2 for:

Avante, Coronet, Crown Jewel, Fusion,  
HQ Sixteen, Sweet Sixteen, Simply Sixteen,  
SMP KQII 18

1. Disconnect the two serial cables and the power cable from the bottom of the IEI or other display (Figure 4).
2. Remove the three bolts from the handlebar and carefully remove the black plastic bracket and display from the quilting machine (Figure 5).



Figure 4

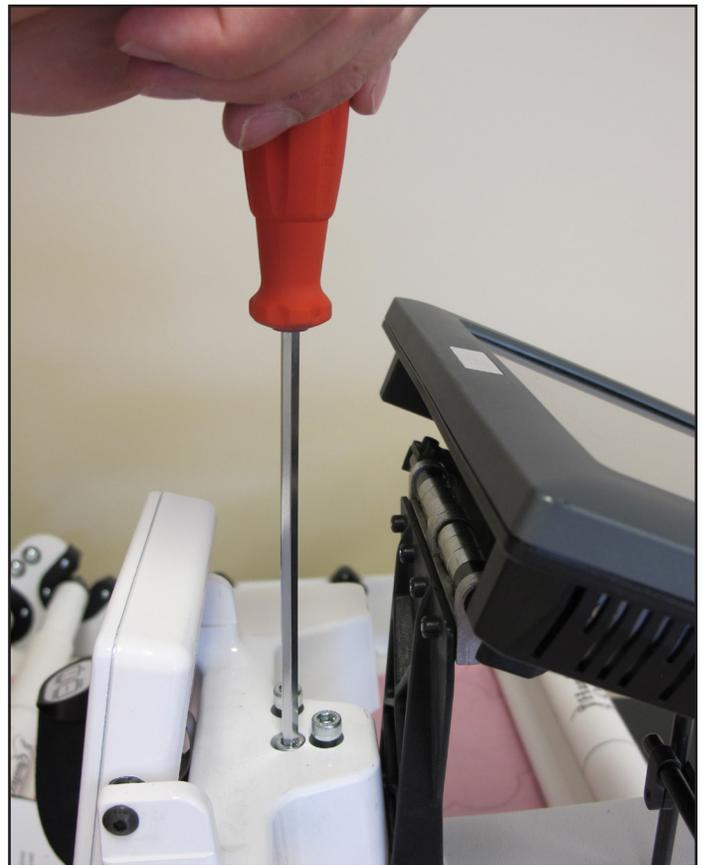


Figure 5

- Attach the new display bracket to the quilting machine using the handlebar bolts in the same way the previous IEI bracket was mounted (Figure 6).

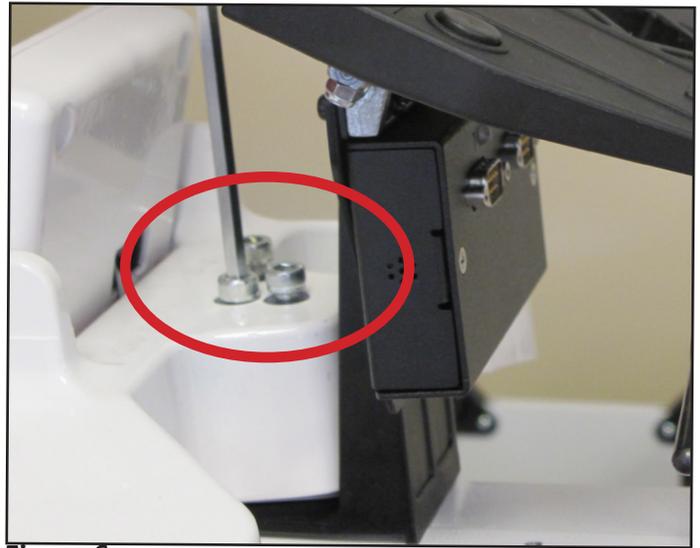


Figure 6

- The display mount has four captured screws (circled) for the display. Start all four screws into the back of the display and then tighten them firmly with a 3mm hex tool. Do not over tighten the screws. (Figure 6a).

 **NOTE:** The display may have come pre-assembled to the bracket.

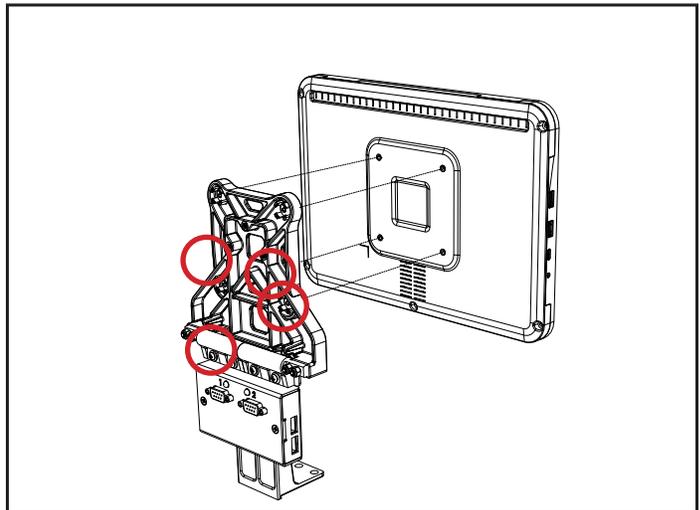
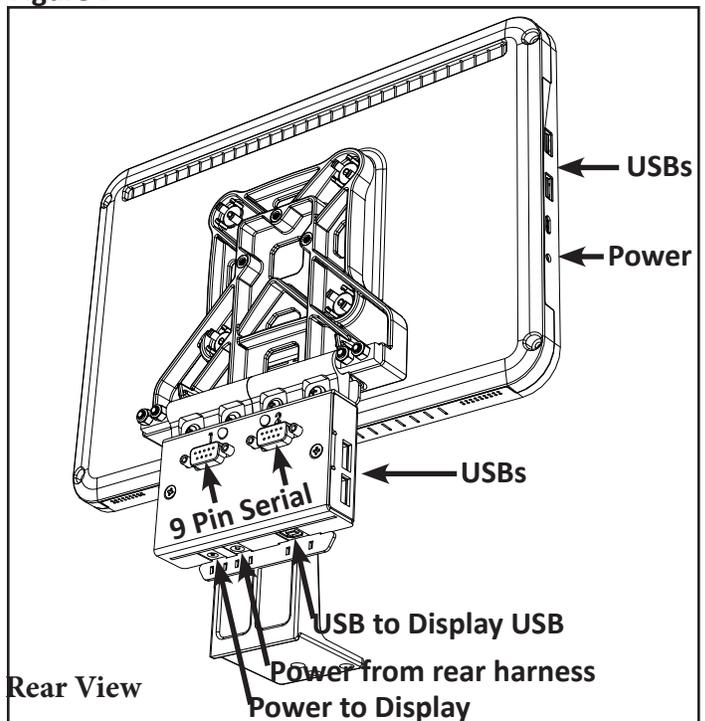


Figure 7

- Attach the two 9-pin serial cables to the appropriate connectors labeled #1 and #2 on the black box mounted on the back of the new bracket (Figures 8 and 8a).
- Plug the barrel connector (from the third cable wrapped together with the two serial cables, (Figure 8 and 8a) into the middle connector on the bottom of the black box (Figure 8, 8c and 9).
- Carefully plug the appropriate end of the power cord and one end of the USB cable into the side of the display (Figure 8). Plug the opposite ends of the two cords into the bottom of the black box attached to the back of the display bracket (Figure 8c and 9).
- The black box on the back of the display bracket has two USB ports on the left-hand side that can be used for the USB memory stick, a USB mouse, etc. (Figure 8 and 9).



Rear View

Figure 8

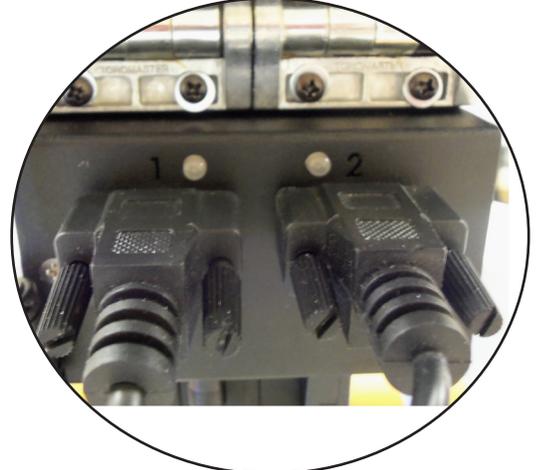
Two 9-pin connections coming from Pro-Stitcher with barrel connector for power

Figure 8a



Two 9-pin connections connected to black box on back of monitor mount.

Figure 8b



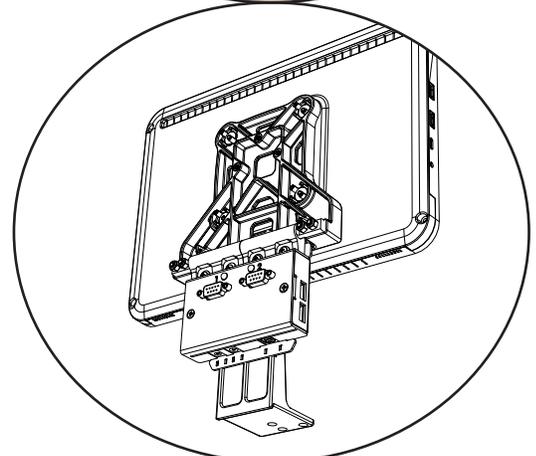
Left bottom cable on black box is power to display; center bottom cable on black box is power from the Pro-Stitcher, right bottom cable USB to display computer.

Figure 8c



VESA 75 display computer mount with black box mount to the back

Figure 9



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# QM03821-JA16/18 Parts List

**Pro-Stitcher Display Upgrade Only, from the following displays:**

IEI, EEPC, W500, HP Omni, W700, Aspire Switch 11, Alpha 12, and Switch 3...

**On all brand machines, 16/18 these models:**

QMP 16, QMP 18

## Included Parts:

- (1) QM20899 VT-TPC12.1, 12" Pro-Stitcher Touch-Screen Display
  
- (1) QM11180 Pro-Stitcher Display Mounting Bracket Assembly VESA75
  
- (1) QM10825 Bracket-QMP 16 PS
- (1) QM10821 Bracket-QMP18 PS
  
- (1) QM20811-9 Cable PS USB REVA
- (1) QM20812-8 Cable PS Power 12v to PC
- (1) QM21869 PS USB Flash Drive
- (1) QM30014 Pro Stitcher Quick Reference Guide
- (1) Instructions (these instructions)

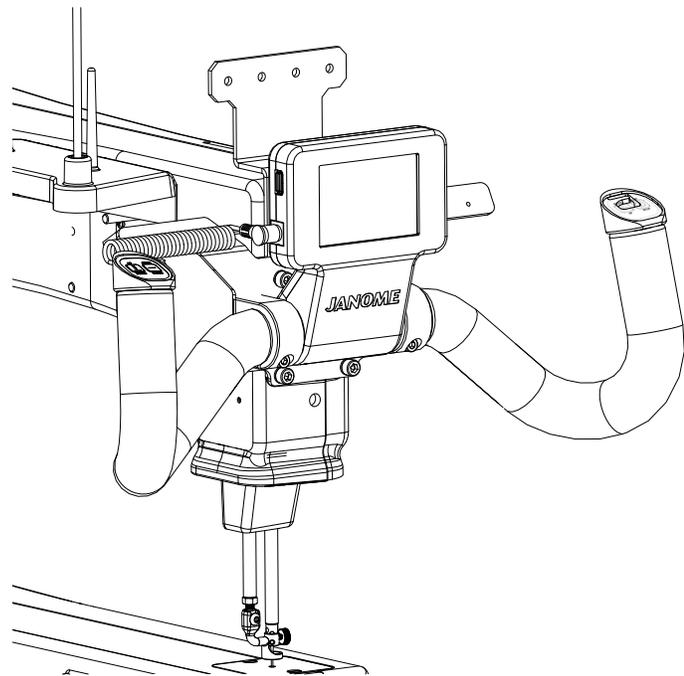
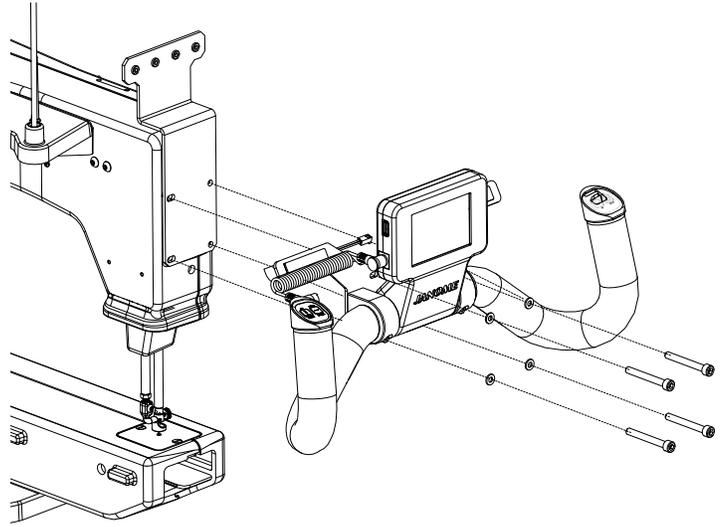
 **NOTE:** The kit has the same hardware and display for all of the machines listed above. The display has software that recognizes the machine connected and configures accordingly.

# Installation Instructions

## QM03821-GEN2 for:

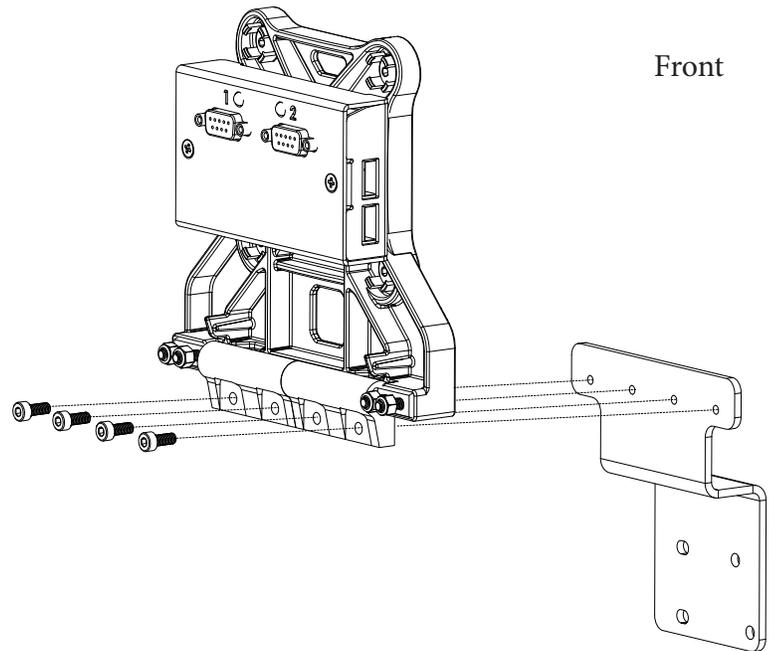
QMP 16, QMP 18

1. Locate either the 16" machine (smaller) or the 18" machine (larger) computer display bracket as needed. See QM10825 and QM10821 on page 14 in the Parts List.
2. Disconnect the front handlebar cable from the side of the machine. Then remove the handlebars from the front of the quilting machine by removing the four hex-head bolts with a 3mm Allen wrench.
3. Position the computer bracket mount next to the machine and then the front handlebar assembly as shown.
4. Insert the screws with washers removed earlier through the front handlebar, the bracket, and into the machine head. Start all four screws and tighten them firmly with a 3mm hex tool.

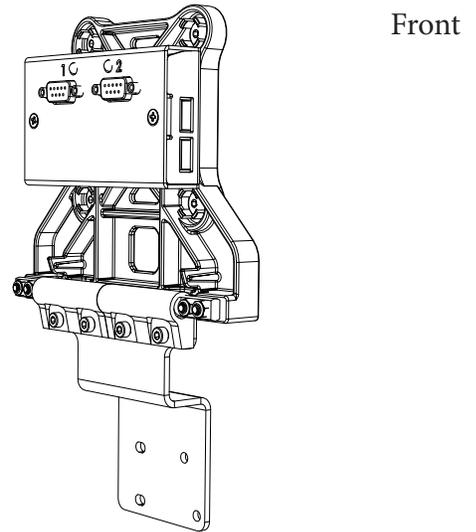


5. Attach the computer bracket with the four included screws (M4X10 SKC) by inserting them through the hinge and into the bracket. Start all four screws and then tighten them with a 3mm hex tool.

 **NOTE:** It is important to orient the brackets correctly as shown.

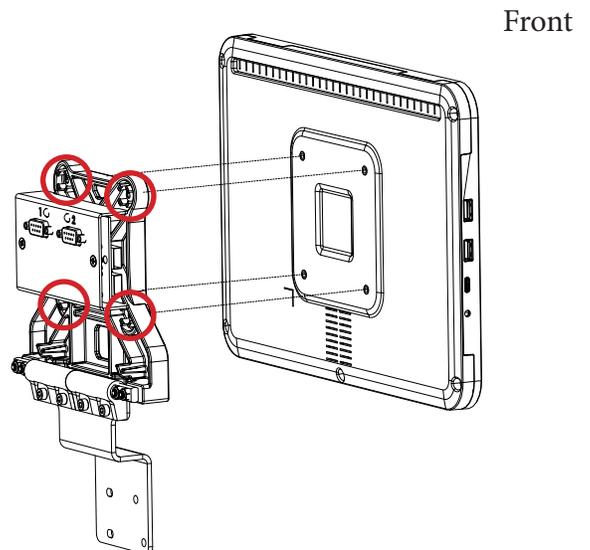


6. Remove the computer from its packaging.



7. Align the four holes in the computer display with the four captured screws in the computer bracket (circled). Start all four screws and then tighten them firmly with a 3mm hex tool being careful not to over tighten them.

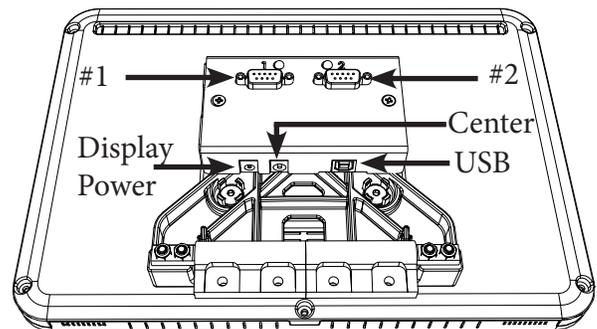
 **NOTE:** Note the display connections are on the left as seen from the front.



8. The black cable has three connections – two 9-pin serial connectors and one barrel connector for power.



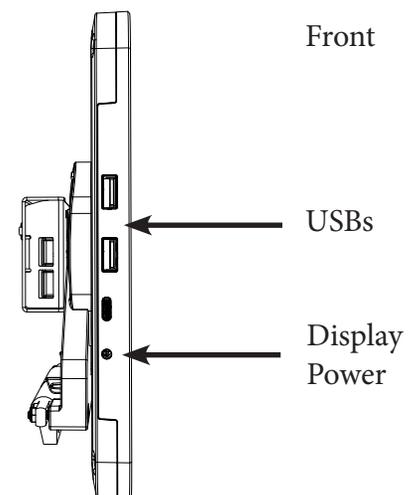
9. Insert the barrel connector into the center jack located on the bottom edge of the black box that is mounted to the back of the computer bracket. Attach the two 9-pin serial cables to the appropriate ports on the back of the same box, making sure cable connectors are plugged into their corresponding ports on the black box.



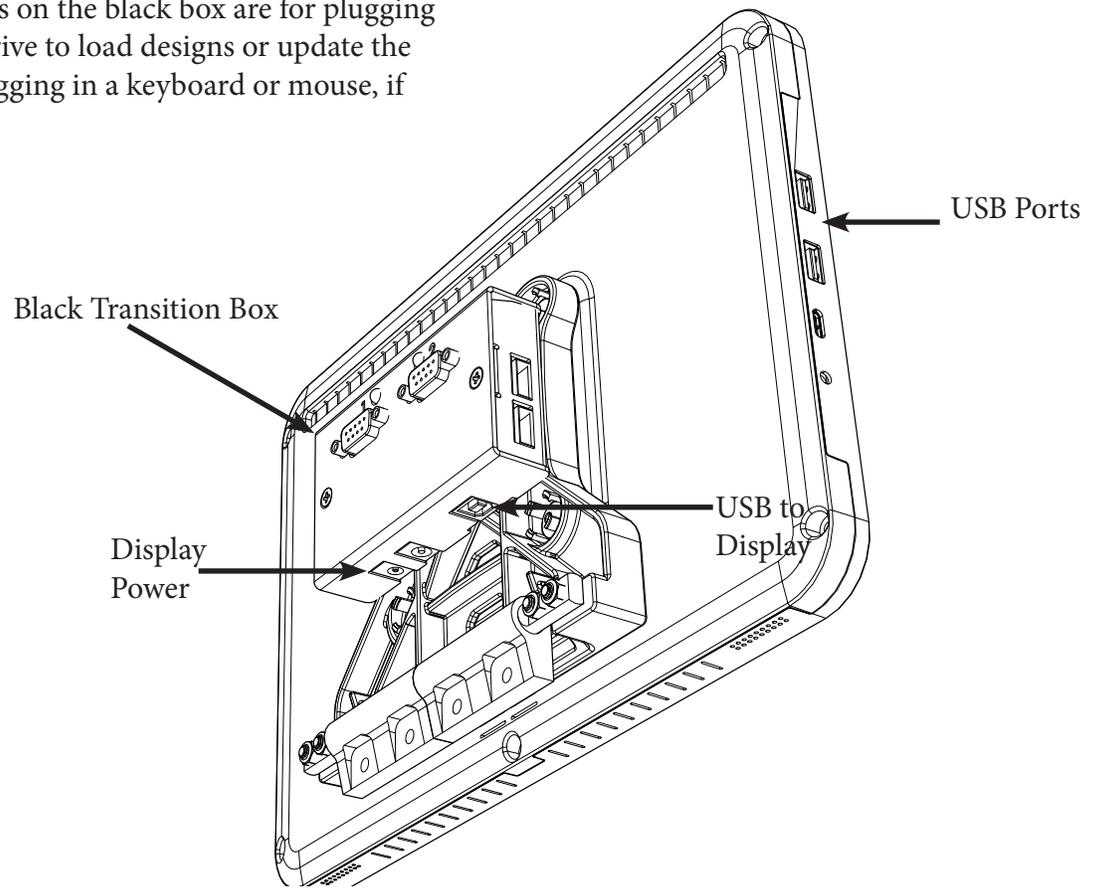
10. With the computer installed on the bracket, connect the USB short cable to one of the USBs on the left side of the display (as seen from the front). Connect the other end to the USB on the bottom of the black transition box.

11. Connect the computer power cord to the display connector on the bottom left of the display (as seen from the front) and the other end into the black transition box bottom connector.

 **NOTE:** See Step 12 for more information and image of black transition box.



12. The open USB ports on the black box are for plugging in the USB Flash drive to load designs or update the software, or for plugging in a keyboard or mouse, if desired.



⚠ IMPORTANT: Your display may be a different make or model than the one shown. Connect the USB and power cables in their proper location based upon your make and model of display.

# QM03821-INF Parts List

Pro-Stitcher Display Upgrade from the following displays:

HP Omni, W700, Switch 11, Alpha 12, Switch 3...

**On the HQ Infinity Machine:**

## Included Parts

- (1) QM20899 VT-TPC12.1, 12" Pro-Stitcher Touch-Screen
- (1) QM11170 Pro-Stitcher Display Mounting Bracket Assembly VESA75 (Includes Four QM10169 (M4X10 SKS Screws)
- (1) QM23811-9 Cable-USB PS Acer Switch Alpha
- (1) QM23094-8 Cable PS Power 12v to PC
- (1) QM21869 PS USB Flash Drive
- (1) QM30014 Pro Stitcher Quick Reference Guide
- (1) NA Instructions (these instructions)

## Installation Instructions

### QM03821-INF for Infinity

1. Remove the USB and power cables from the display. (Figure 12)
2. Remove the USB and power cables from the side of the machine.
3. Lift up on the top bracket and slide the display out of the bracket. (Figure 13)
4. Remove the four screws from the mounting bracket hinge with a 3mm hex tool. (Figure 14)
5. Place the display, mounting bracket, and cables aside. The hinge screws will be reused.
6. Reverse the process with the new display, mounting bracket, and cables to install the updated display assembly.

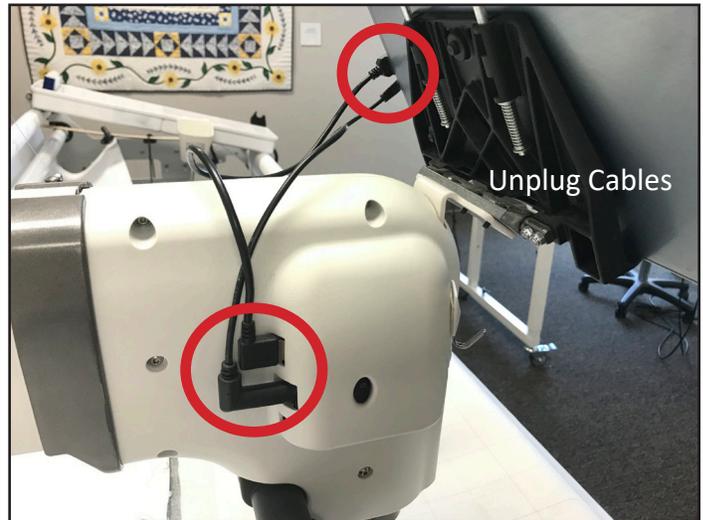


Figure 12

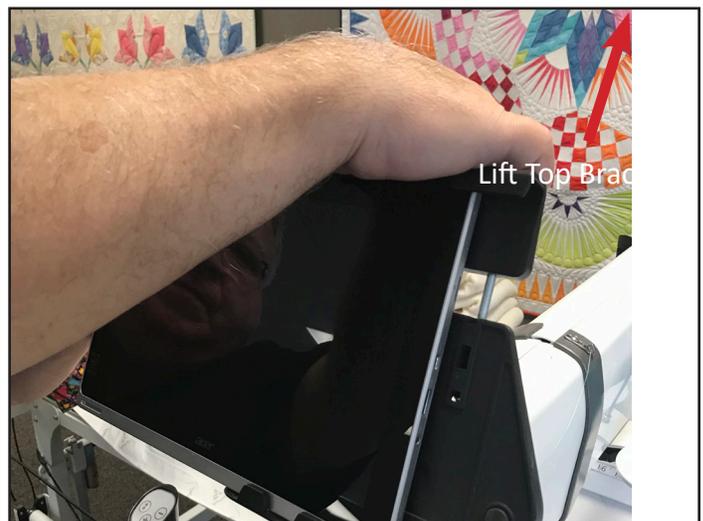


Figure 13

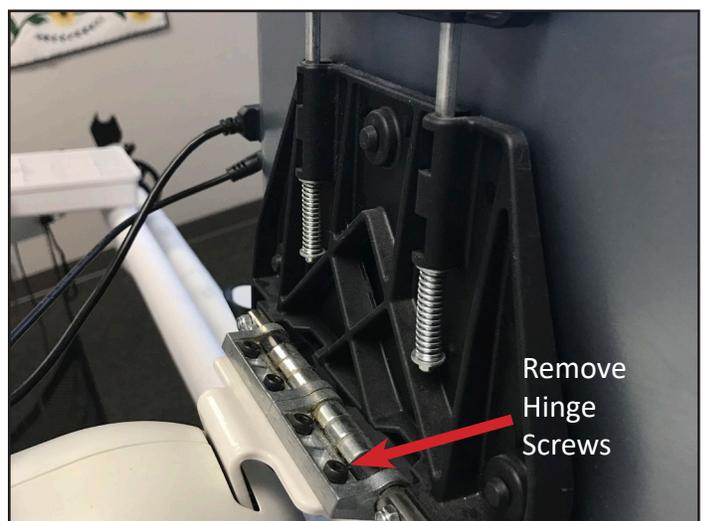
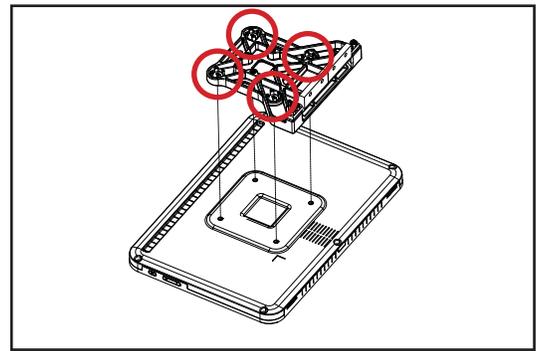


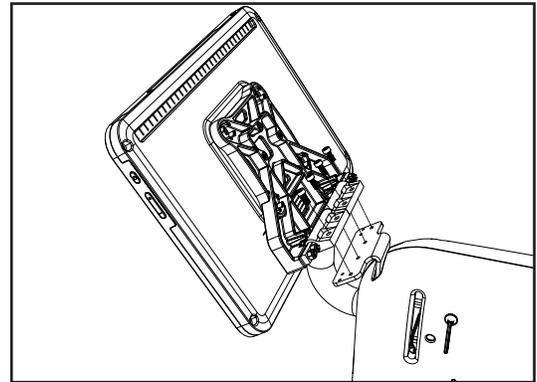
Figure 14

7. Attach the Pro-Stitcher display bracket by aligning the four captured screws in the bracket (circled) with the holes in the back of the display.

 **NOTE:** Tighten the screws firmly with a 3mm hex tool being careful not to over tighten them.



8. Use the four M4x10mm hex screws (provided) with the display bracket. Insert them through the Pro-Stitcher bracket hinge and into the Infinity front metal display bracket. Loosely tighten all four screws with a 3mm Allen wrench and then fully tighten them.



9. Locate the USB cable provided and connect one end to the USB port on the side of the display computer and the other end to the USB port on the side of the Infinity.
10. Locate the power cord and connect one end to the side of the display computer and the other end to the power connector on the side of the Infinity.



 **IMPORTANT:** Your display may be a different make or model than the one shown. Connect the USB and power cables in their proper location based upon your make and model of display.



# QM03821-GEN3 Parts List

**Pro-Stitcher Display Upgrade Only,  
from the following displays:**

HP Omni, W700, Switch 11, Alpha 12,  
Switch 3 ...

**On all brand machines, GEN3 20/24  
these models:**

Amara, Forte, QMP 20, Regalia

## Included Parts:

- (1) QM20899 VT-TPC12.1, 12" Pro-Stitcher Touch-Screen
- (1) QM11175 PS-Display Mounting Bracket Assy
- (1) QM20811-9 Cable PS USB REVA
- (1) QM20812-8 Cable PS Power 12v to PC
- (1) QM21869 PS USB Flash Drive
- (1) QM30014 Pro Stitcher Quick Reference Guide
- (1) NA Instructions (these instructions)

## Installation Instructions

**QM03821-GEN3 for:**

Amara, Forte, QMP20, Regalia

1. Remove the USB and power cables from the display. (Figure 15)
2. Remove the USB and power cables from the top of the black box located on the back of the display bracket.
3. Remove the two cables from the bottom of the black box that come from the top of the machine face cover.
4. Lift up on the top bracket and slide the display out of the bracket. (Figure 15)
5. Remove the four screws from the mounting bracket hinge with a 3mm hex tool. (Figure 16)
6. Place the display, mounting bracket, and cables aside. The hinge screws will be reused.
7. Reverse the process with the new display, mounting bracket, and cables to install the updated display assembly. See steps 8, 9, 10 for more info.



Figure 15

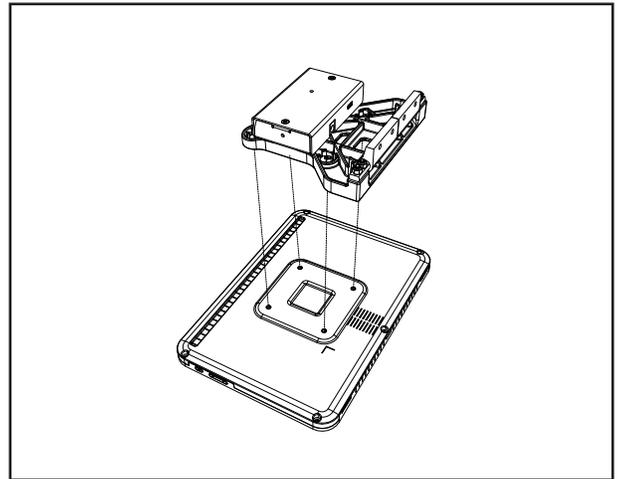


Figure 16

8. Remove the display computer from its packaging. Determine the top of the display.

 **NOTE:** The cable connections are on the left side of the display and the buttons are on the right.

9. Place the display onto a flat surface. Align the four screws captured in the display bracket with the holes in the display and start the screws using a 3mm hex tool.



10. Position the Pro-Stitcher display mount with the black box toward the back of the machine. Place the four M4x10 screws through the large hinge and into the front mounting bracket. Use a 3mm Allen wrench to tighten the screws firmly.

 **NOTE:** This can be done with the machine mount still connected to the machine.

