



Accessible | Affordable | Functional



EndoAR

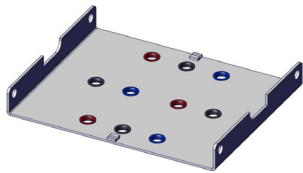
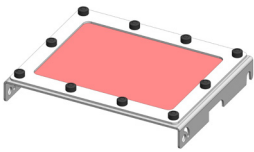
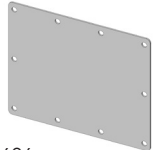
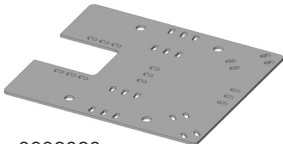
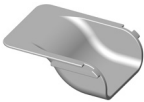
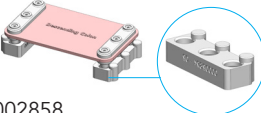
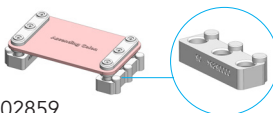
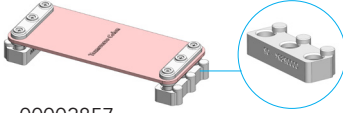
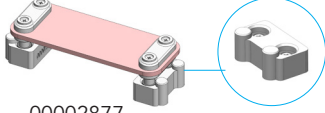
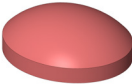
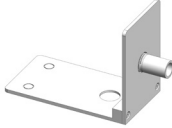
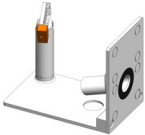
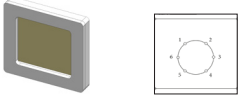
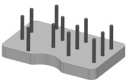
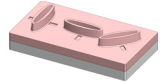
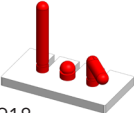
Pro

Setup Manual

Product number: 00002759

EndoAR

When opening your simulator it is recommended that you unpack all package contents and arrange them before starting assembly.

 00002203 1x Base plate	 00001785 1x Rear plate	 00002609 1x Front plate	 00002603 1x Top cover
 00002606 1x plate for top cover	 00002756 2 x Side panels	 0002828 1x Model plate	 00002890 4x Pillars 00002884 4 x Thumbscrew
 00002882 1x Pelvic bridge base	 00002946 1 x Pelvic bridge brim	 00002945 2 x Mag lock for pelvic brim	 00000546 8x Lock nuts
 00002858 1x Descending colon strap 00002895 2 x Mag lock for strap (3pin)	 00002859 1x Ascending colon strap 00002895 2 x Mag lock for strap (3pin)	 00002857 1 x Transverse colon strap 00002895 2 x Mag lock for strap (3pin)	 00002877 2x Corner colon Strap 00002898 4 x Mag lock for strap (2pin)
 0002850 2x Sigmoid riser silicone	 00002650 2x Male base lock screw	 00002784 Best Box front bracket	 00002695 Best Box rear bracket
 00002655 Picture frame and paper inserts	 00002645 1 x Best Box peg board task	 00002648 9x Best Box triangle pencil grip	 00002919 1x Best Box nip task assembly
 00002918 1 x Best Box snare task	 00002593 1x Bung	 00002754 1x BEST Box Twist Lock Front	
 00000857 Screen cable			

		
00000016 1x Actuator	00000014 1x Leg Assembly	00000024 1x Top Box assembly

		
00000296 1x Mounting Arm	00002746 1x Video Processor shelf	00001515 1x Dell 24" Touch Screen

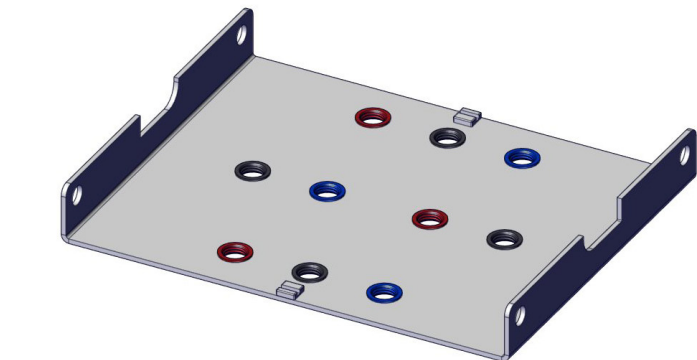
			
00002751 1x Endoscope camera bracket	00001170 8x M6 x 20 Button head screws	00001176 2x Nuts	00001174 8x M5 x 10 Button

			
00000483 Spanner	0000877 Allen key	00001090 Power cable	00001525 USBA-USBC cable

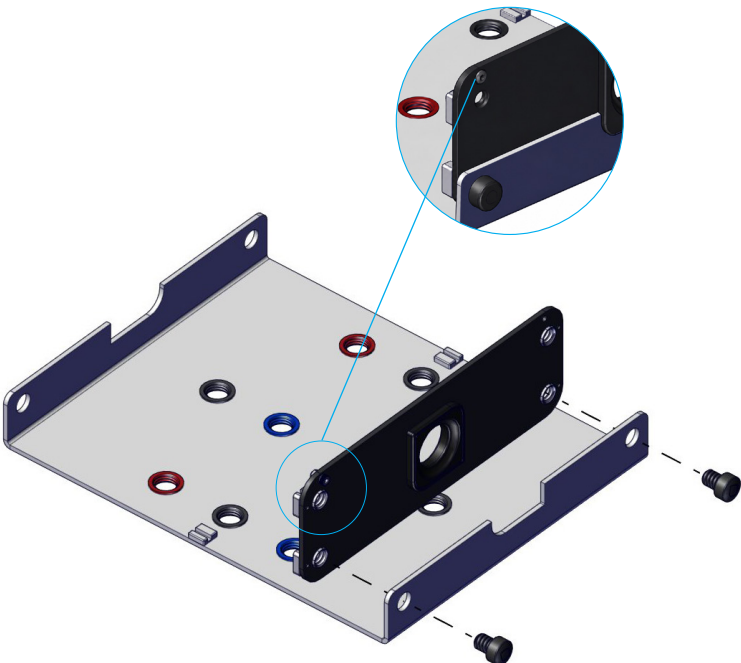

0000857 Screen cable

EndoAR

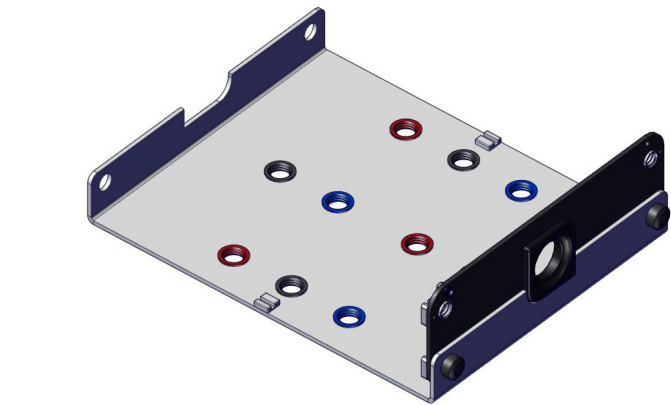
Configuration for LAB Range Colon Models



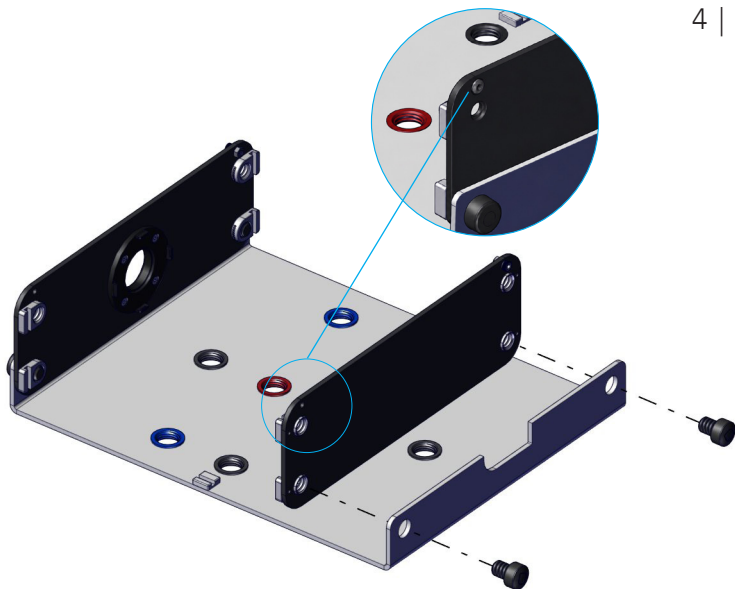
1 | Place 00002203 base plate on a secure, flat surface.



2 | Using the image as a guide, attach 00002609 front panel with 2x 00000546 Lock nuts.

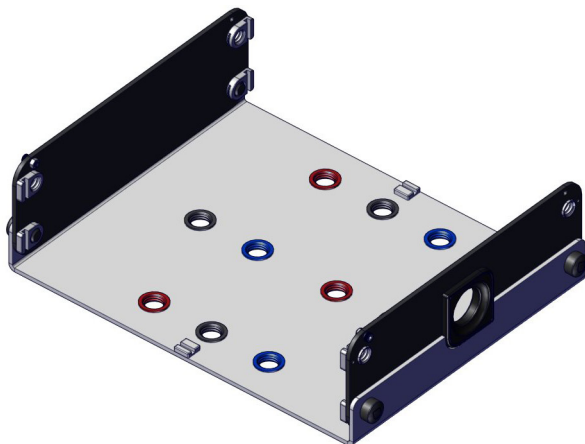


3 | Ensure 2x 00000546 Lock nuts are hand tightened.

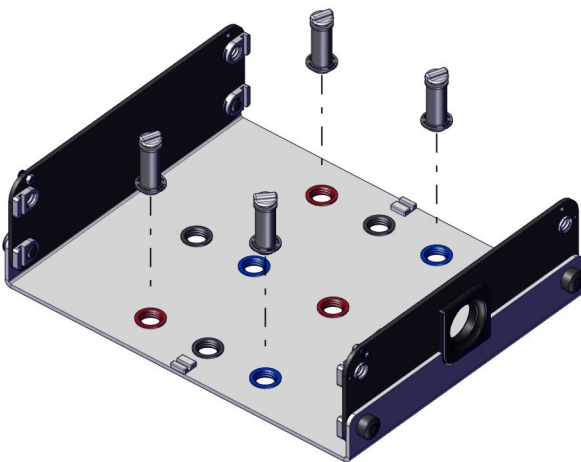


4 | Repeat steps 2 and 3 with 00001785 Rear panel as shown in the image.

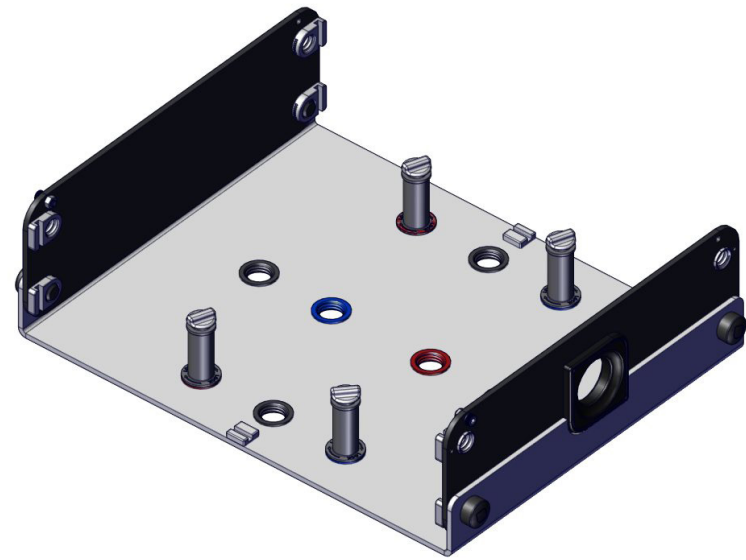
Ensure the cap screw is at the top of the panel.



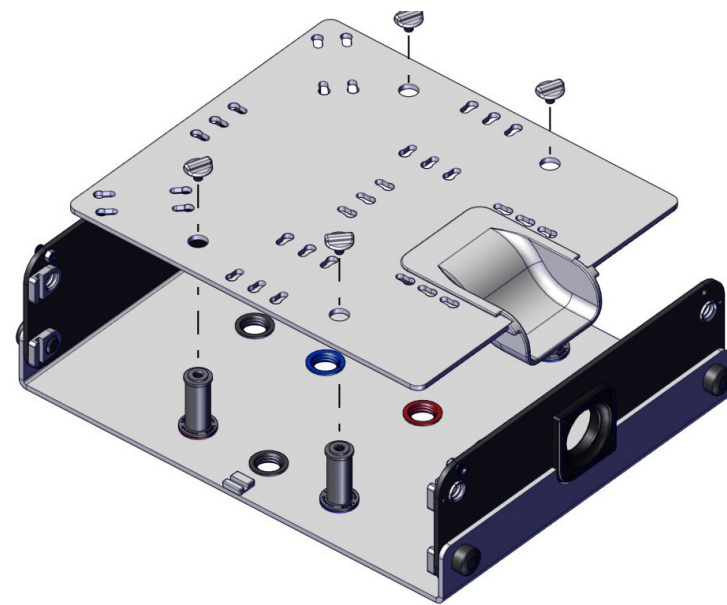
5 | Once the base elements are secure move onto the 00002890 Pillars.



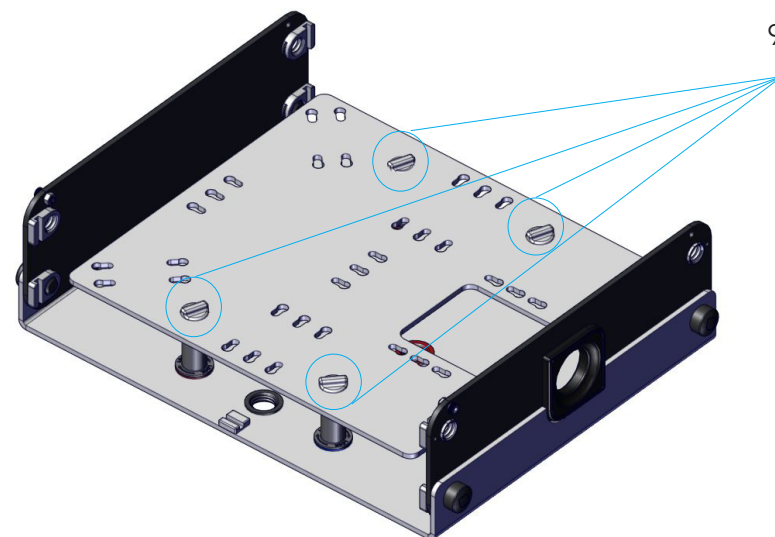
6 | Insert the 4x 00002890 Pillars and twist lock in place as shown.



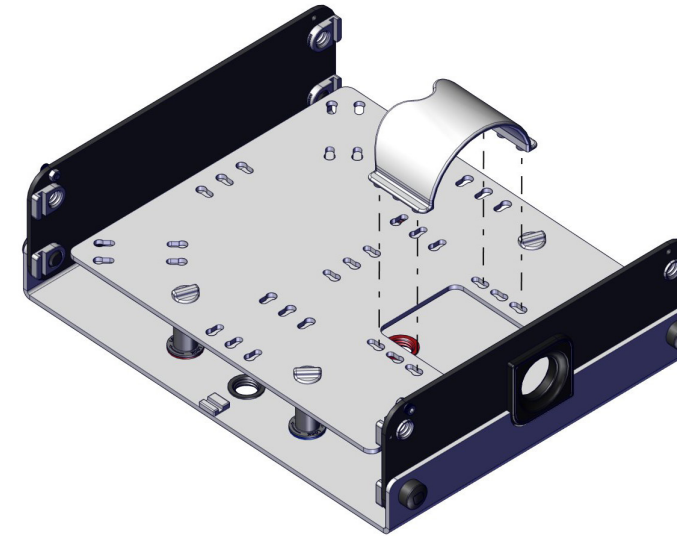
- 7 | Screw the 00002890 Pillars hand-tight to ensure they are secure.



- 8 | Unscrew and remove the 4x 00002884 Pillar thumbscrews. Position the 00002828 Modular tissue mounting plate over the 4x 00002890 Pillars, aligning the pillars indicated, then refit the Pillar thumbscrews.



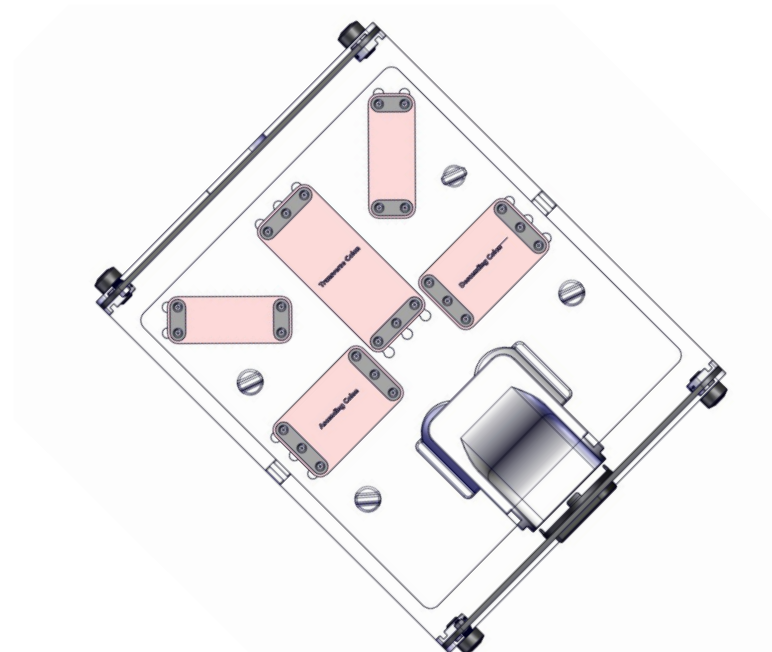
- 9 | Hand tighten the 00002884 Pillar thumbscrews to secure the model plate.



- 10 | Align the 1x 00002946 Pelvic bridge brim above the 6 slots as shown.



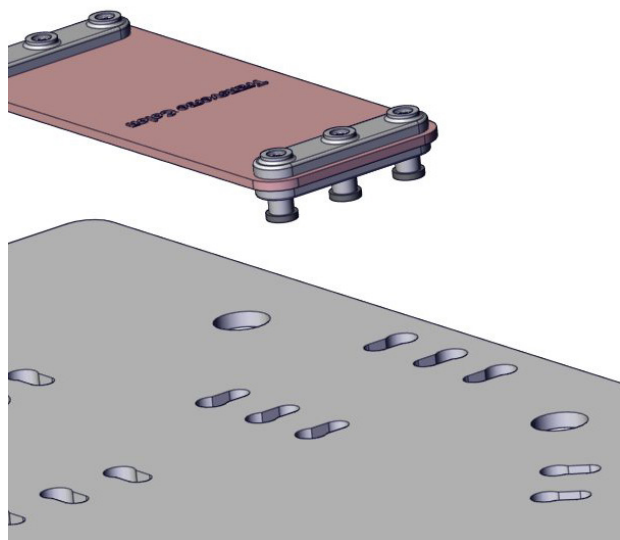
- 11 | Insert the 00002946 Pelvic bridge brim and push to lock it in position and attach the 2x 00002945 Mag lock for pelvic brim on the underside of the 00002828 Modular tissue mounting plate.



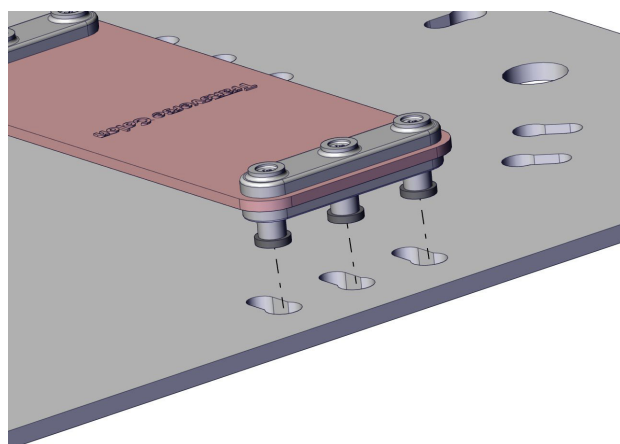
- 12 | The next few sections will show you how to attach the colon straps to the model mounting plate. Be sure to place each colon strap in the correct position as shown in the diagram.

The colon straps can be fitted with the model mounting plate in position or it can be removed to make assembly easier.

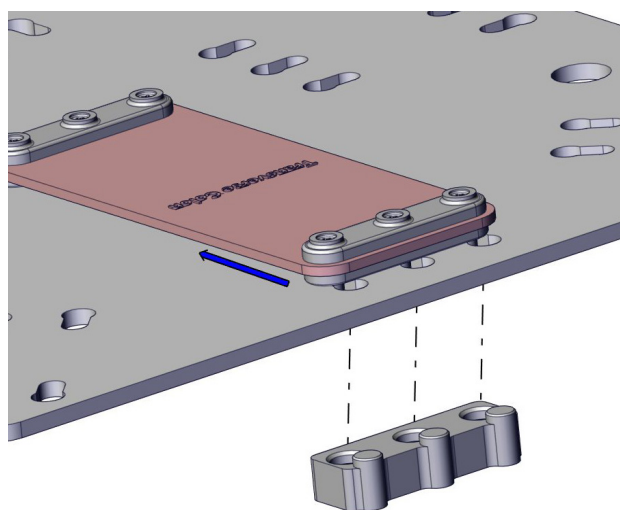
Just unscrew the thumbnail screws and lift the plate out.



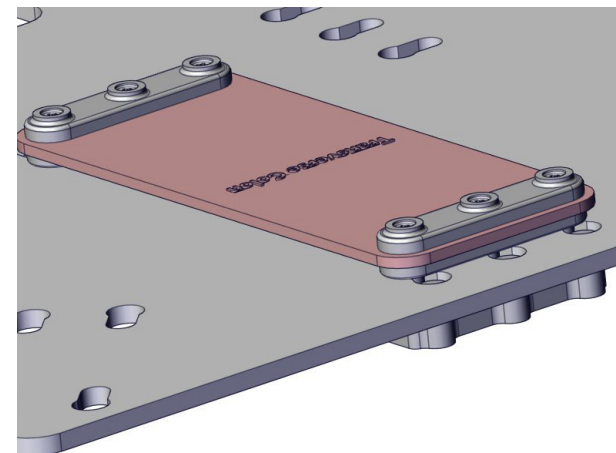
13 | Referring to the diagram in step 12, insert the 00002857 Transverse colon strap in the correct position.



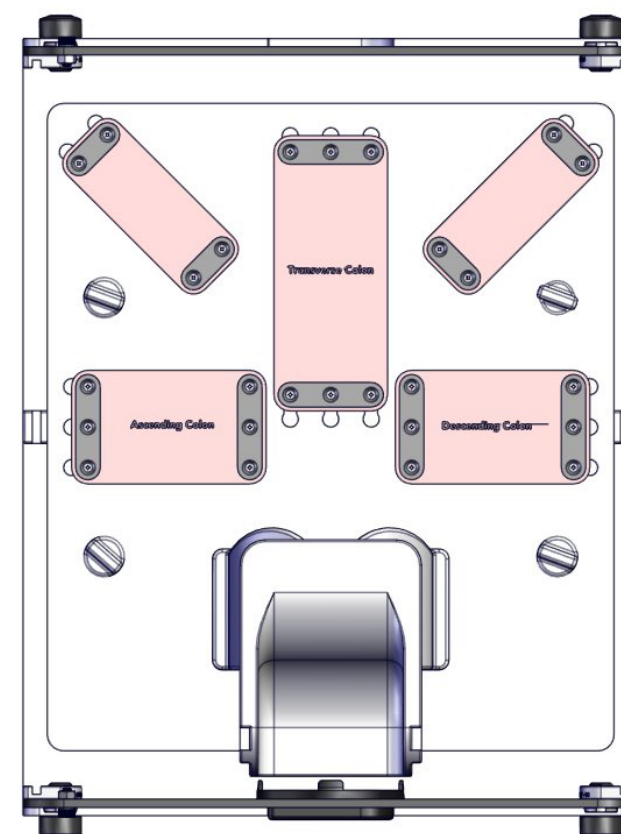
14 | Align the magnetic probes on the underside of the 00002857 Transverse colon strap with the correct holes in the 00002828 Modular tissue mounting plate.



15 | Slide the magnetic probes til the lock in position. Then attach a 00002945 Mag lock from the underside of the 00002828 Modular tissue mounting plate.



16 | Repeat step 15 with the other end of the 00002857 Transverse colon strap.

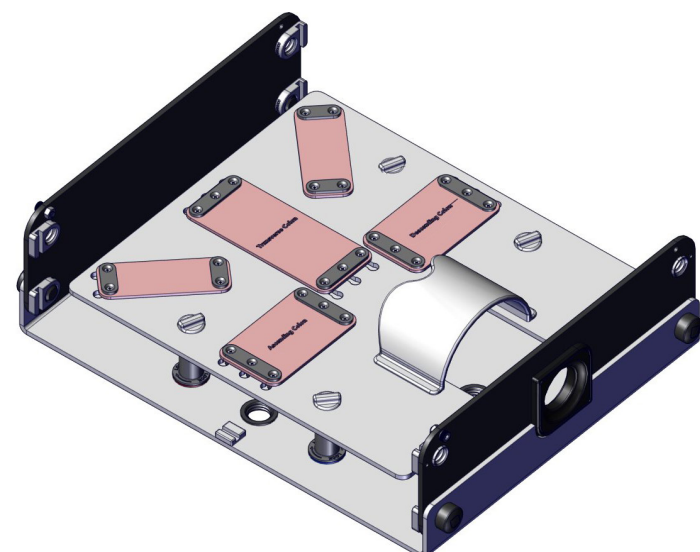


17 | Then repeat steps 13 -16 with each of the following items:

00002858
1x Descending colon strap

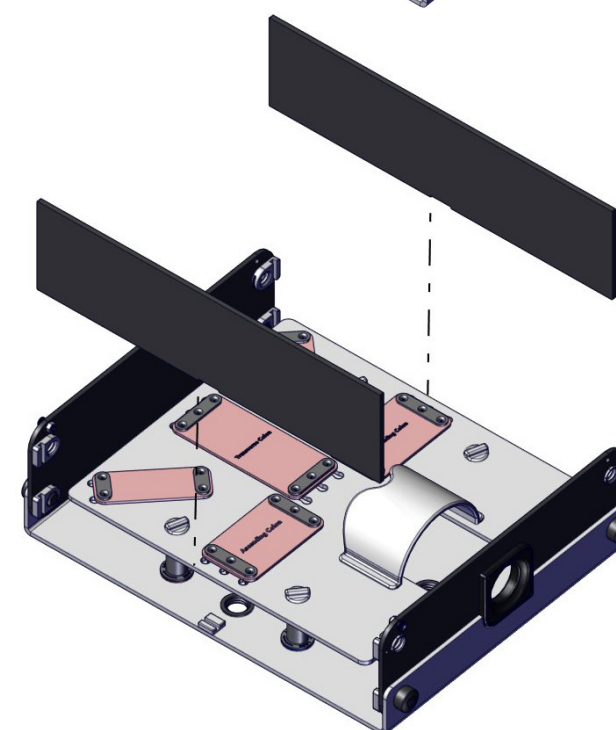
00002859
1x Ascending colon strap

00002877
1x Corner colon Strap

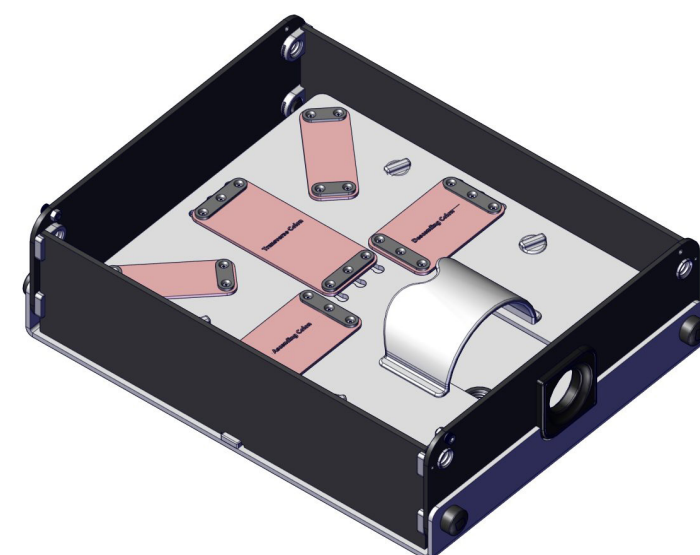


18 | The 00002828 Modular tissue mounting plate is now fully assembled and can be reattached to the inside of the simulator.

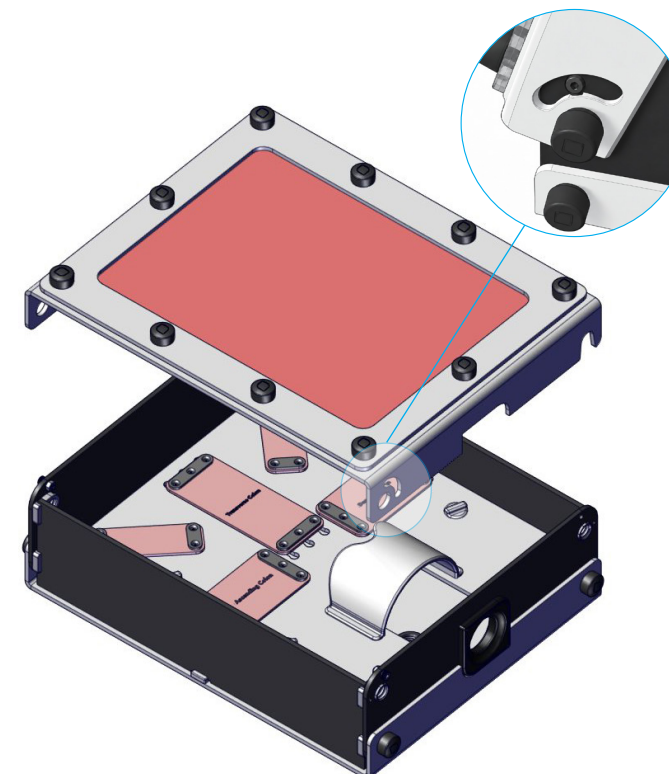
Following steps 8 and 9.



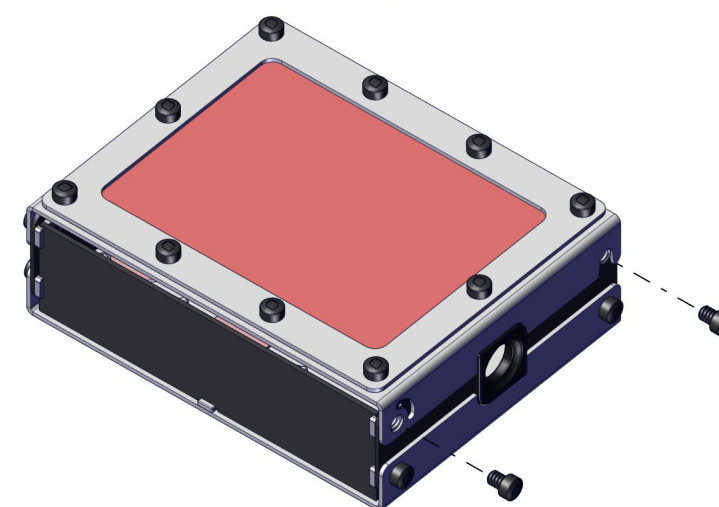
19 | Slot the side 2x 00002756 side panels in place.



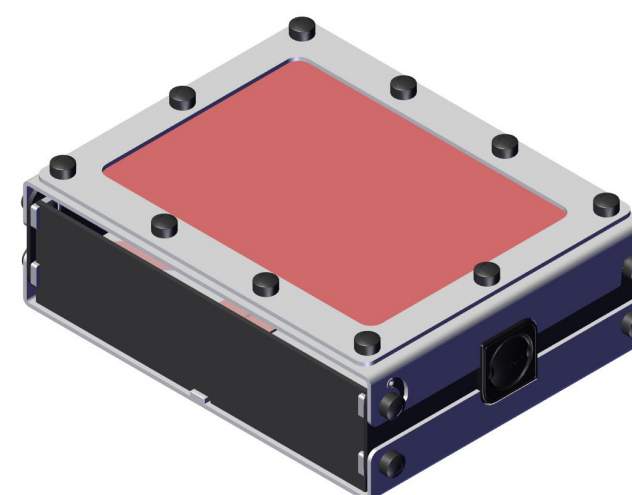
20 | The side panels do not require any bolts to hold them in place.



21 | Align the 00002603 Top cover over the base of the simulator ensuring the bolt on the front and rear panel is inserted into the cut-out-arc on the lid.



22 | Insert the 4x 00000546 Lock nuts (2x in the front 2 x in the rear) to secure the top cover. Hand-tighten only. Do not over tighten, as you will need to lift the cover to insert the colon models.

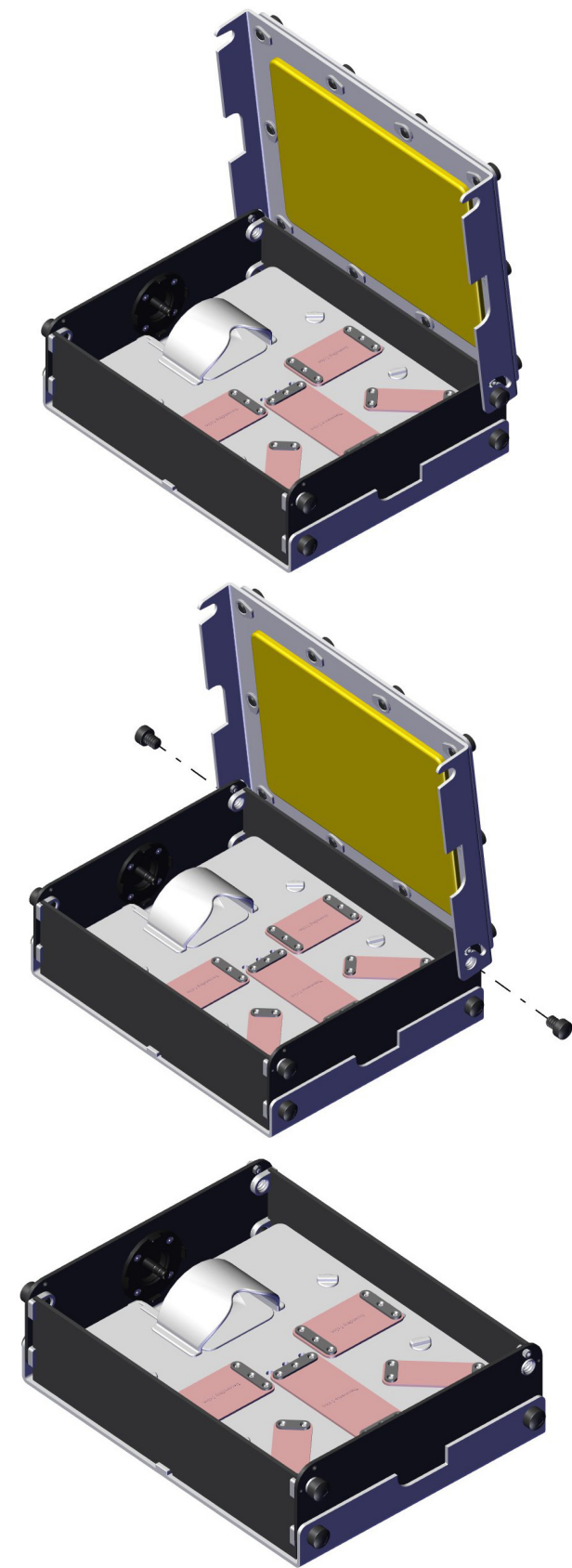


23 | The EndoAR box simulator is now ready to be used with your choice of Lab Range colon models from Inovus Medical.

Setup complete.

EndoAR

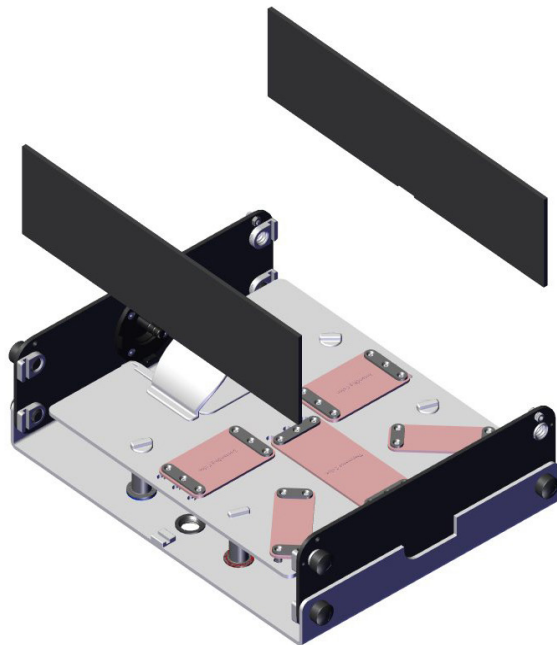
Preparing EndoAR for BEST tasks



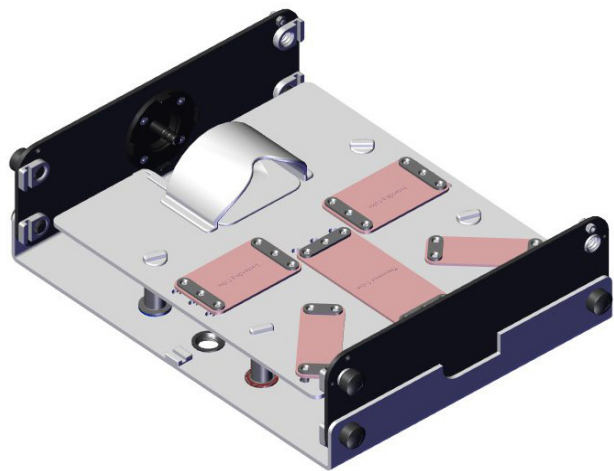
24 | EndoAR can also be configured for BEST Box skills training. To change configurations, several components must first be removed, as shown in the following steps.

25 | Unscrew the 2x 0000594 Lock nuts as shown in the diagram.

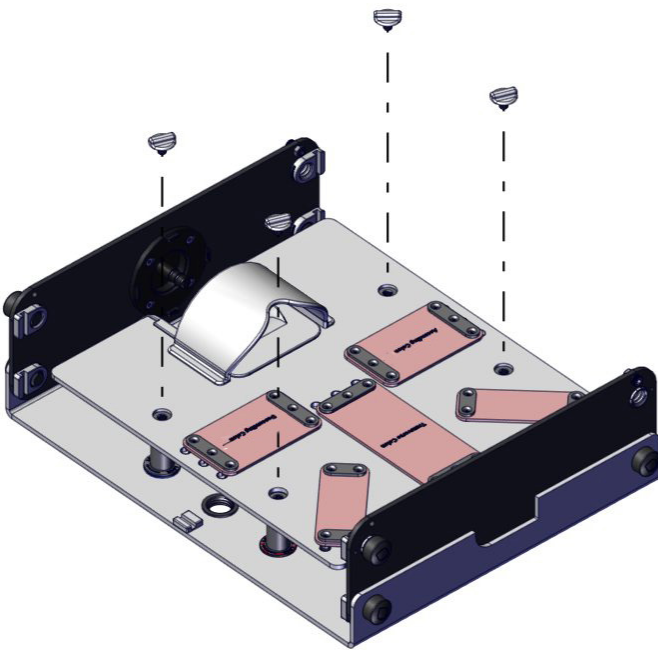
26 | Remove the 00002603 Top cover.



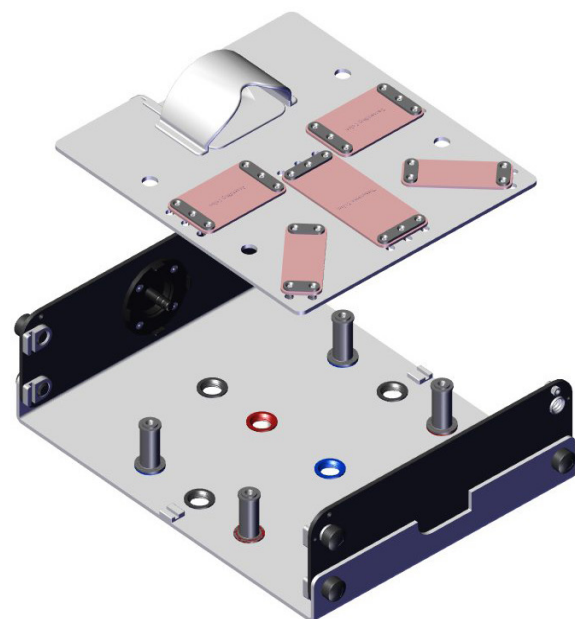
27 | Remove the 2x 00002756 side panels.



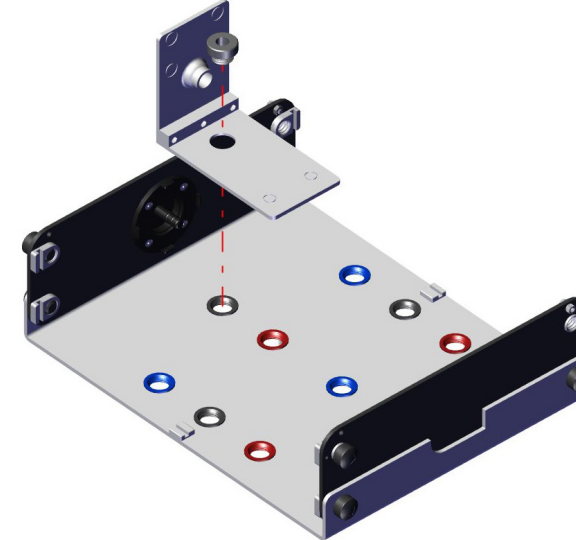
28 | Locate the pillar thumbnail screws.



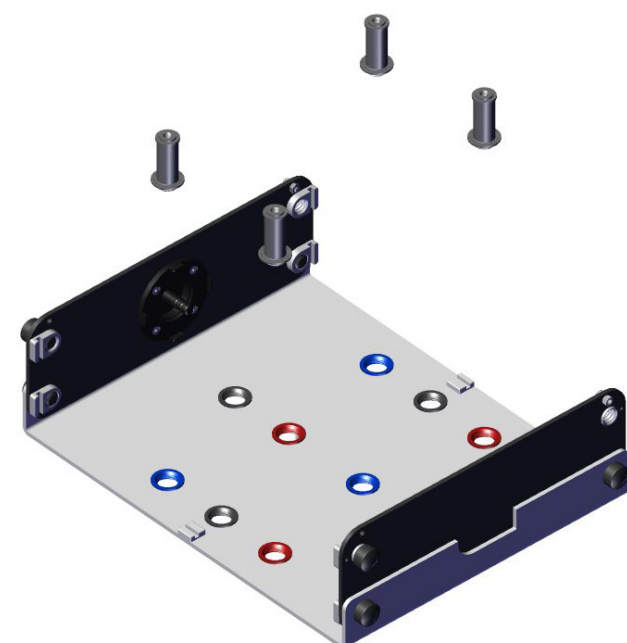
29 | Remove the pillar thumbnail screws.



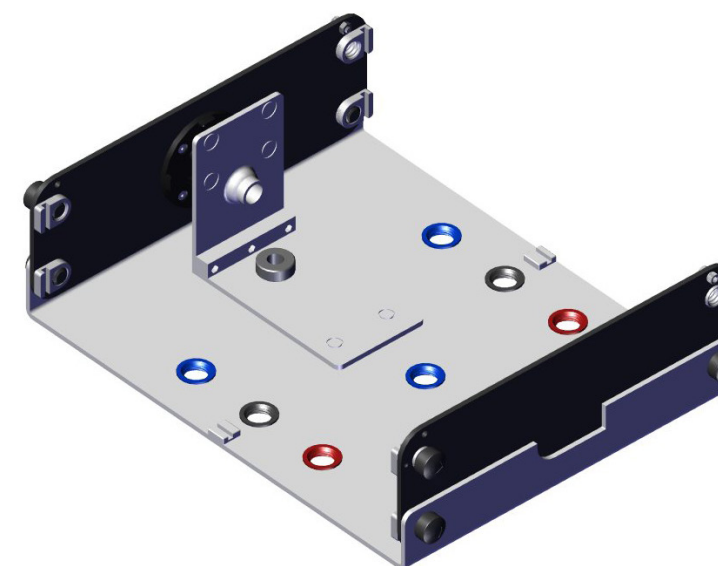
30 | Remove 00002828 Modular tissue mounting plate.



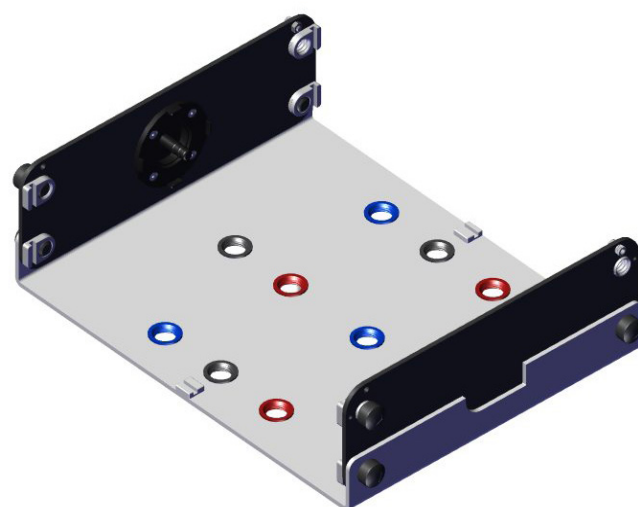
33 | With the blind end of the simulator facing you attach the 00002784 Best Box front bracket and screw to the base of the simulator with 1x 00002650 Male base lock screw.



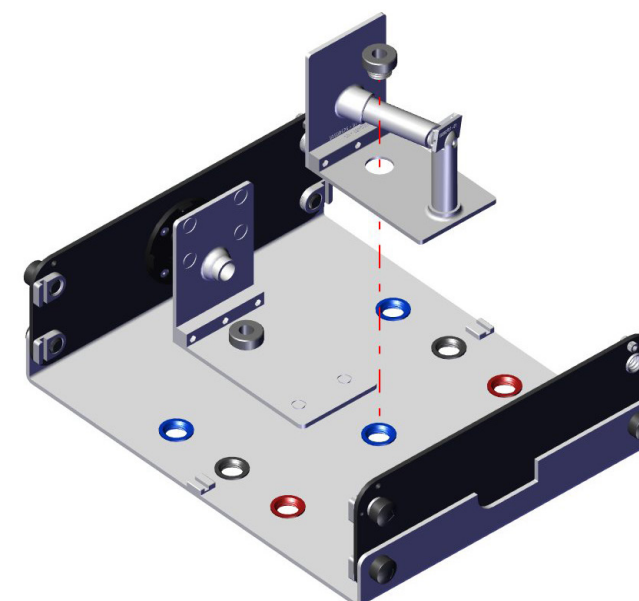
31 | Unscrew and remove 4x 00002890 Pillars.



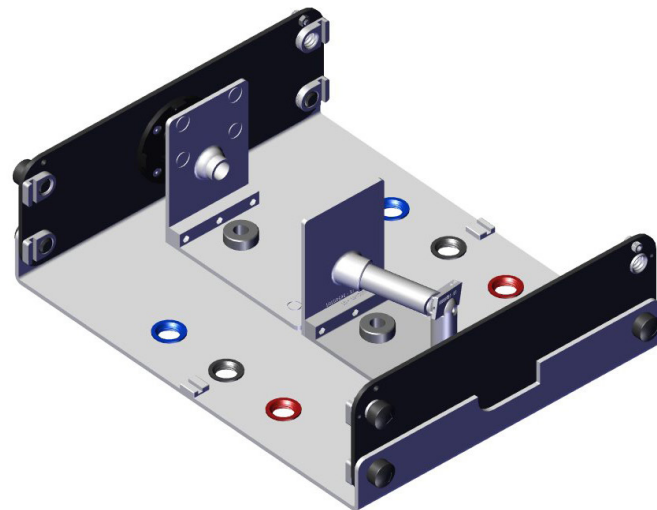
34 | Secure the 00002650 Male base lock screw in place hand-tight.



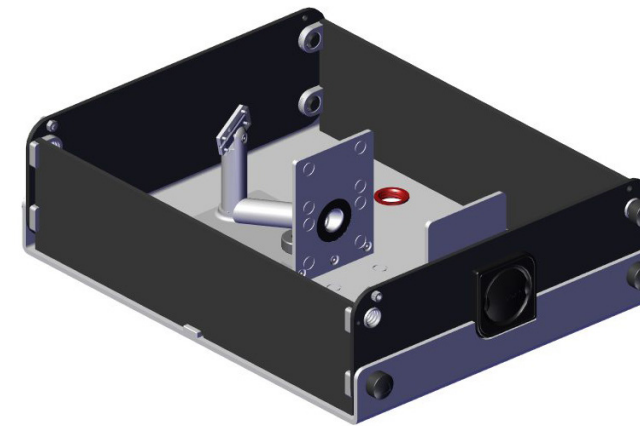
32 | Rotate the EndoAR base so that the blind end with no hole is now at the front of the simulator box.



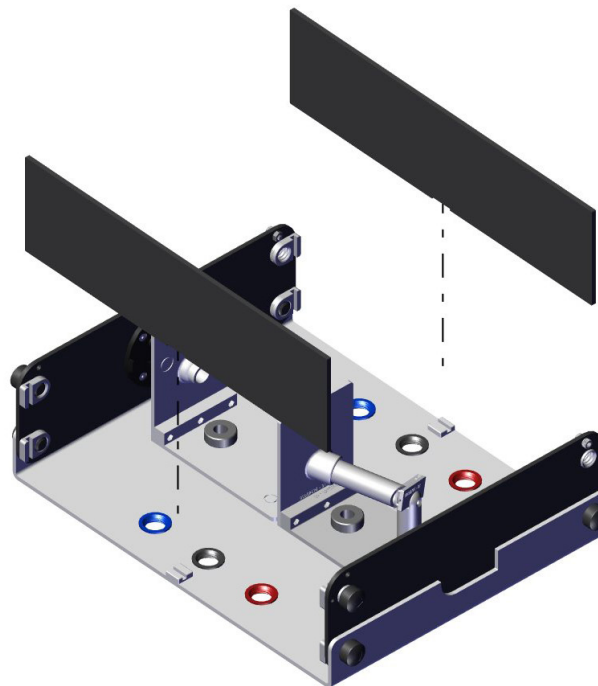
35 | Repeat this process with the 00002695 Best Box rear bracket now ensuring you screw the second 00002650 Male base lock screw into the blue circle in the base of the simulator.



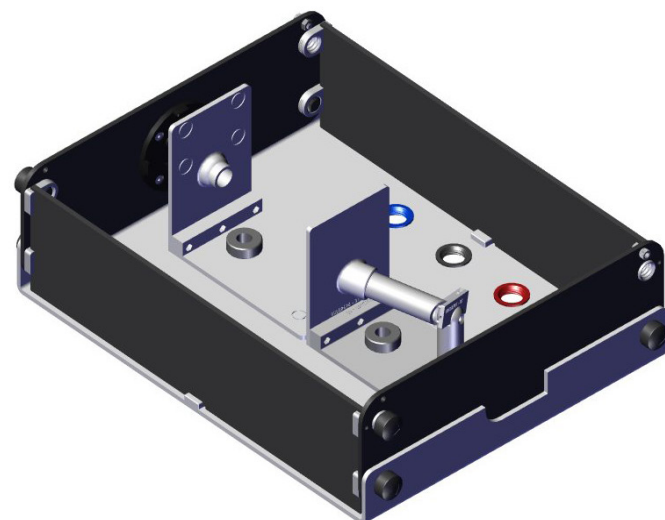
- 36 | Hand tighten the 00002650 Male base lock screw to secure the 00002695 Best Box rear bracket



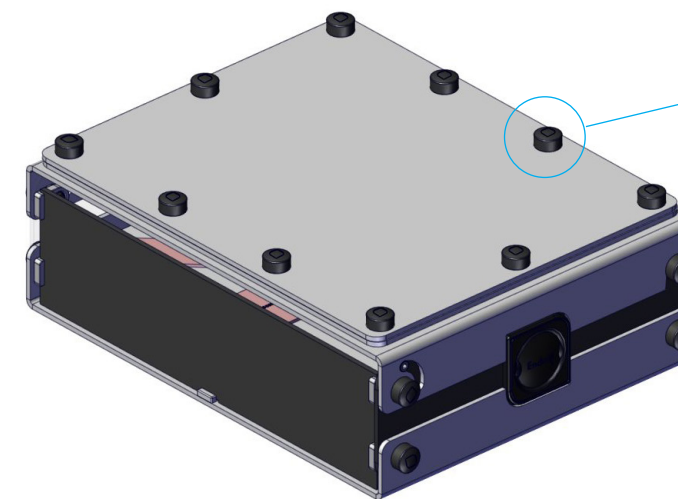
- 39 | Rotate the simulator so that the front of the EndoAR is facing you.



- 37 | Slot the side 2x 00002756 side panels in place back in place.



- 38 | Ensure both side panels are correctly fitted and the simulator enclosure is fully assembled.



- 40 | Remove the 10x 00000546 Lock nuts from the top cover.

Remove the skin layer and replace it with the supplied flat white cover. Refit and hand-tighten all 10 lock nuts.

Reattach the top cover as shown in steps 16–17.



00002754
1x BEST Box
Twist Lock Front



00002593
Bung

Setup complete
Your EndoAR is now configured for BEST Box training.



41 | When opening your simulator it is recommended that you unpack all package contents and arrange them before starting construction.



42 | Start the assembly of your cart system by screwing the 4x 00001170 M6 x 20 Button head screws into the underside of the 00000014 Leg assembly to the 00000016 Actuator. You can do this using the allen key provided.



43 | Now that the base is attached to the 00000016 actuator you are ready to attach the 00000024 top box assembly.



44 | Locate the 4x 00001170 M6 x 20 Button head screws provided to attach the top box.



45 | Insert two 00001170 M6 x 20 Button head screws into the side of the cart system 00000016 Acutator and top box, screwing in place with the 00000877 allen key provided.



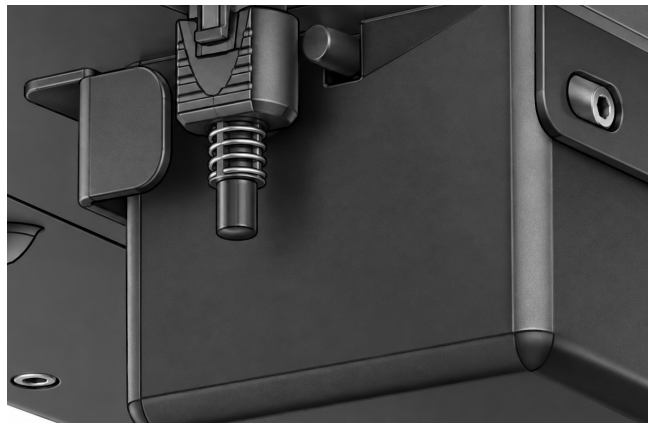
46 | Ensure the 00001170 M6 x 20 Button head screws are finger tightened initially whilst you move onto the next step.



47 | Repeat this process on the other side of the cart system.



48 | Tighten all 00001170 M6 x 20 Button head screws with the 00000877 allen key provided. The top box of the cart system should now be securely attached to the main column.



49 | Locate the 00000016 Actuator lead on the underside of the cart system.



50 | Secure the lead in place with the connector as shown.



51 | Taking the 00000029 monitor bracket, attach to the underside of the top box of the cart system using the 2x 00001176 nuts provided.



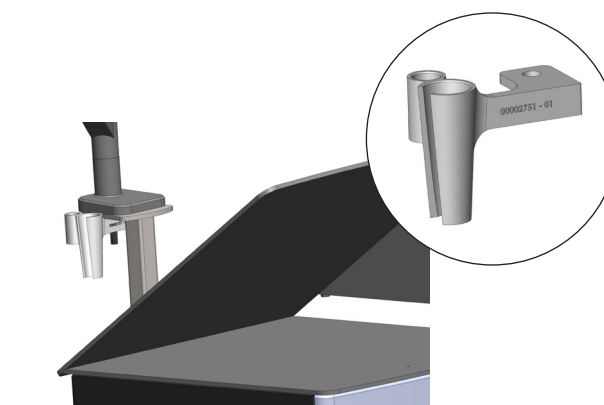
52 | Use the 00000483 13mm Spanner tighten the 00001176 nuts to ensure the bracket is secured in place.



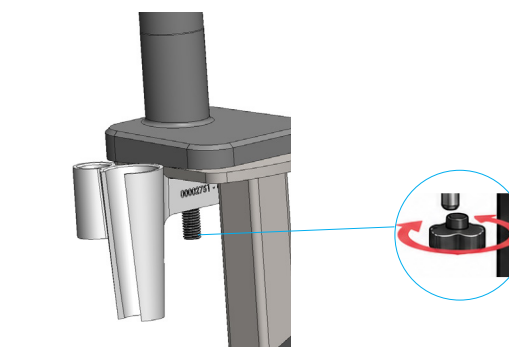
53 | Locate the 00000296 1x Mounting Arm. (There are further instructions included with the screen arm should you require them).



54 | Insert the 00000296 bolt on the base of the screen stand into the hole on the top of the 00000296 1x Mounting Arm now attached to the cart system.



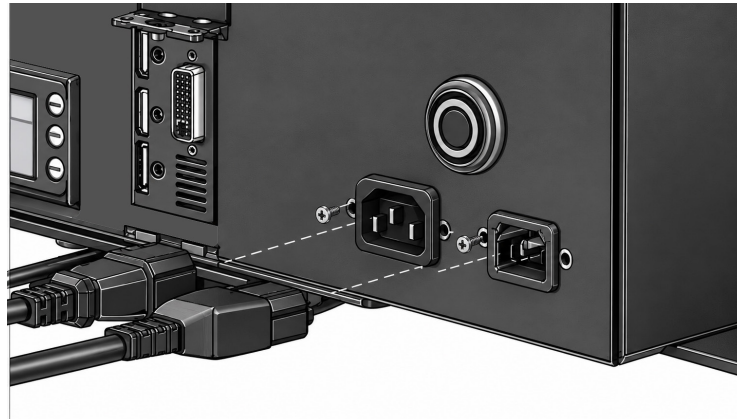
55 | Attach the 00002751 Endoscope bracket to the bolt on the base of the monitor arm.



56 | Tighten the underside of the bolt as shown. Fully tighten the handle to secure both the 1x 00000296 Mounting Arm and the endoscope camera bracket in position.



57 | Locate 4x 00001174 M5 x 10 Button and thread through the 00001515 bracket and into the back of the 1x 00001515 Dell 24" Touch Screen. Ensure the bolts are securely tightened.



58 | Plug the 00000779 and 00000857 power cables into the relevant ports at the back of the cart system as shown. (Please note the mounting arm is not shown here just for clarity of plug positioning)



59 | Connect the three cables 00001090, 00001525 and 00000857 to the corresponding ports on the underside of the monitor.



60 | Connect the opposite ends of the three cables to the corresponding ports on the rear of the 00000024 cart system, as shown.



61 | Locate the 00002746 shelf components and assemble the shelf by securing the first side panel to the base.



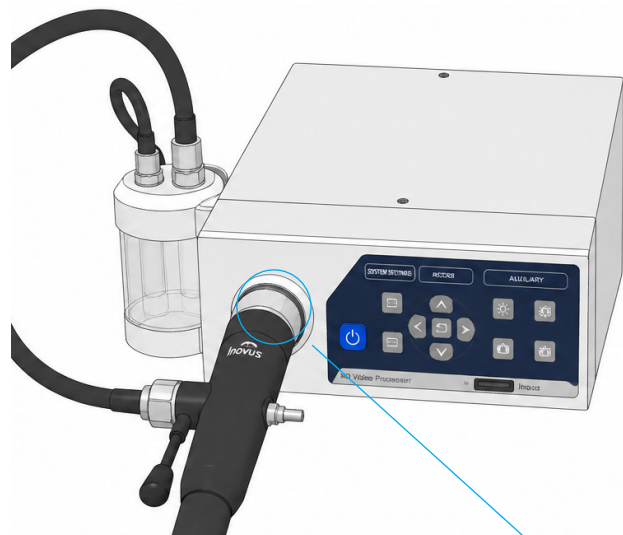
62 | Repeat the process to attach the second side panel.



63 | Attach the assembled shelf and the two instrument holders to the underside of the cart system, as shown.



64 | The cart system is now complete.



65 | Fill the bottle with water making sure not to overfill, the bottle has max and min indicators to guide you.

Attach the irrigation tube from the top of the bottle to the socket on the side of the endoscope.



66 | Place the EndoAR simulator box on top of the 00001527 cart system. Connect the 00002610 endoscope to the front of the control unit, then place the endoscope into the endoscope bracket.



67 | Connect the 00002610 USB-A USB-C cable to the corresponding port on the rear of the cart system.

68 | Connect the 00000779 power cables to an electrical supply, then turn on the control unit using the power switch located on the rear of the unit.



69 | Press the front button to power up the EndoAR pro.



Surgical Training Remastered

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