

Heat and Control, Inc.  
Packaging Service Department  
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# RCU Touch Screen Replacement Procedure



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photo 1: Required Tools



photo 2: Replacement Touch Screen Package



photo 3: Replacement RCU Front Border



photo 4: Touch Screen Adhesive Strip



photo 5: Touch Screen

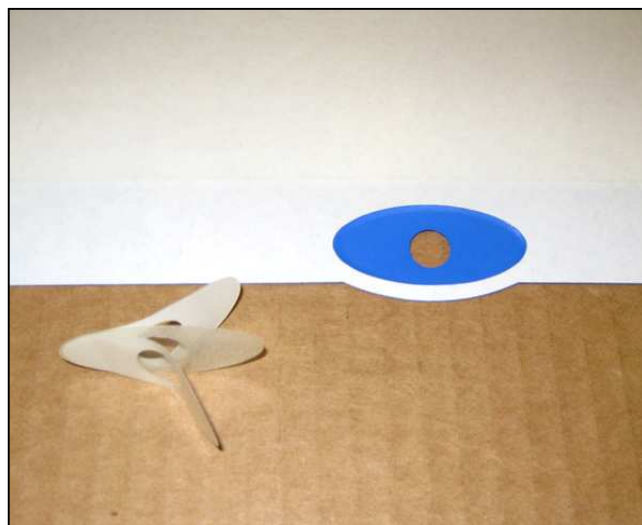


photo 6: Replacement Camera Cover





photo 7: Remove the 8 Phillips head screws from the back of the RCU.

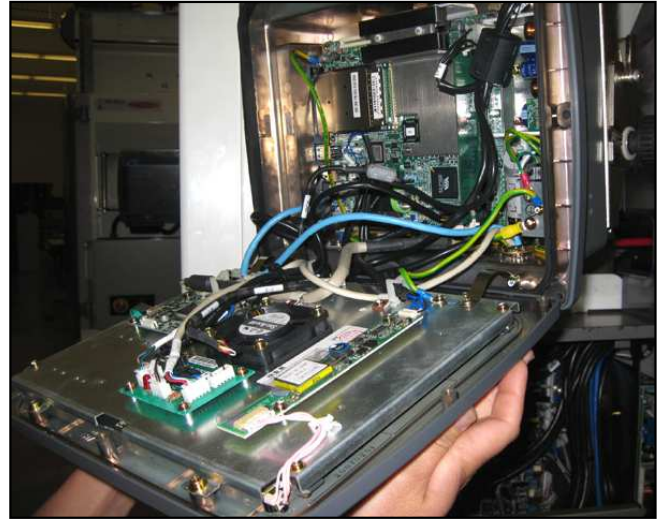


photo 8: Open the front of the RCU.



photo 9: Disconnect all cable mounting straps.

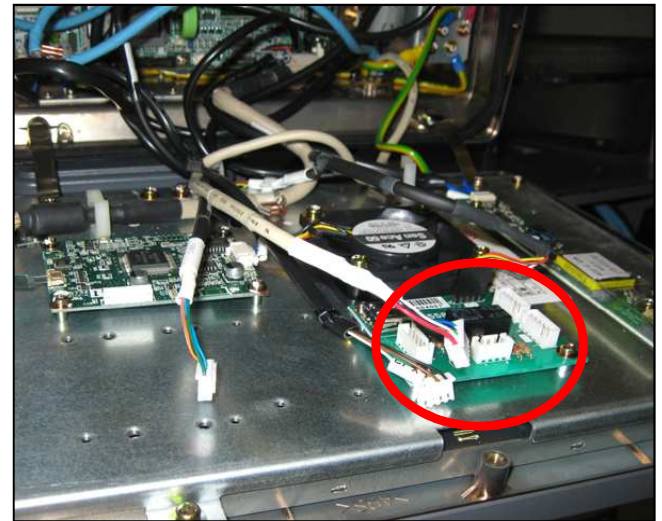


photo 10: Remove cables from electrical boards.

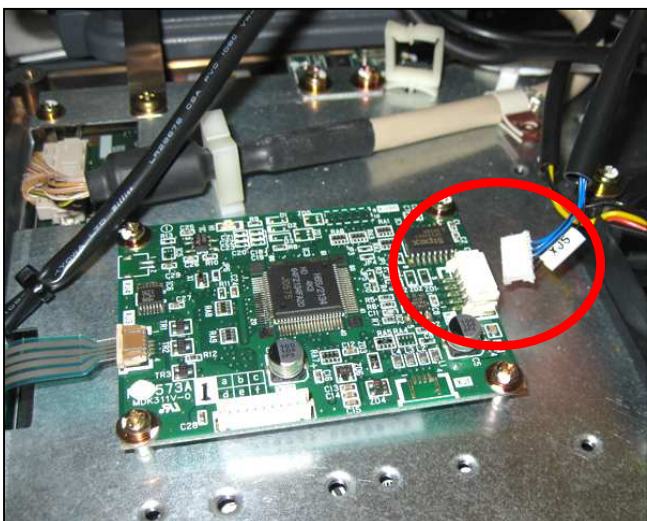


photo 11 : Disconnect the touch screen communication cable carefully.

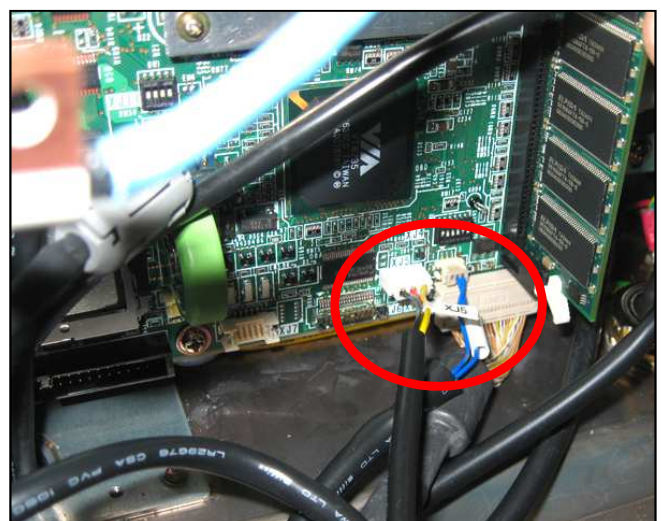


photo 12: Disconnect the fan cable from the back of the RCU board.



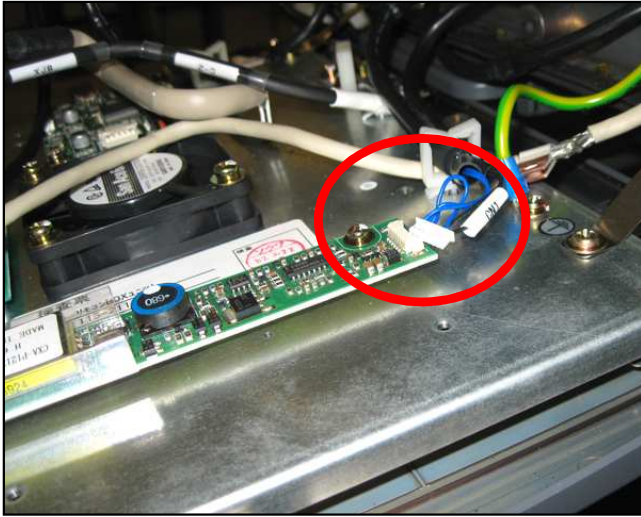


photo 13: Disconnect the Backlight Power Supply connector.

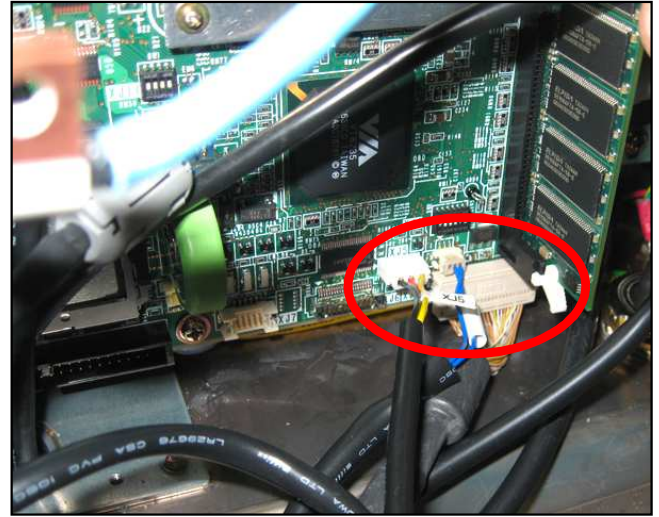


photo 14: Disconnect the cables to the RCU bd.



photo 15: Support the touch screen to remove the grounding cable and mounting straps.

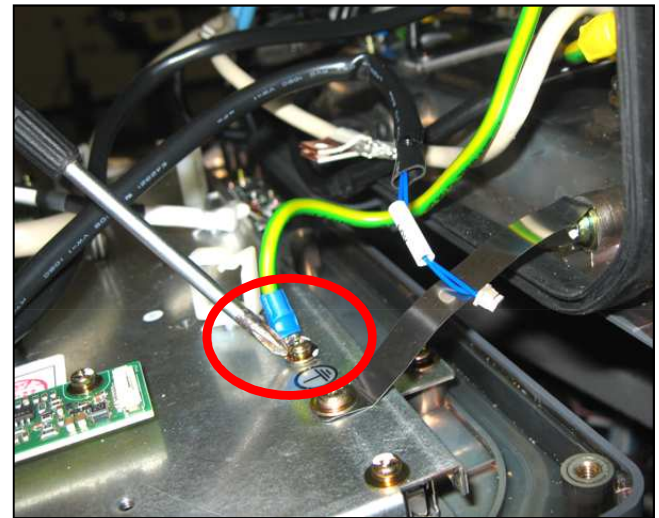


photo 16: Remove the ground cable.

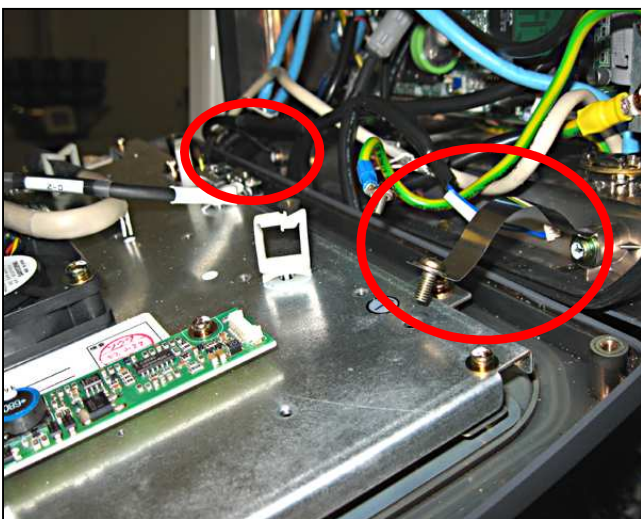


photo 17: Disconnect the mounting straps while securely holding the touch screen.

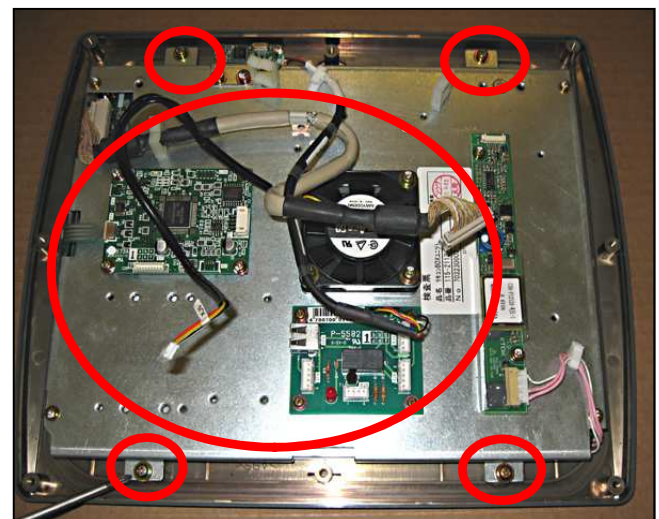


photo 18: After disconnecting cables, locate the screws to separate the touch screen mounting plate from the RCU.



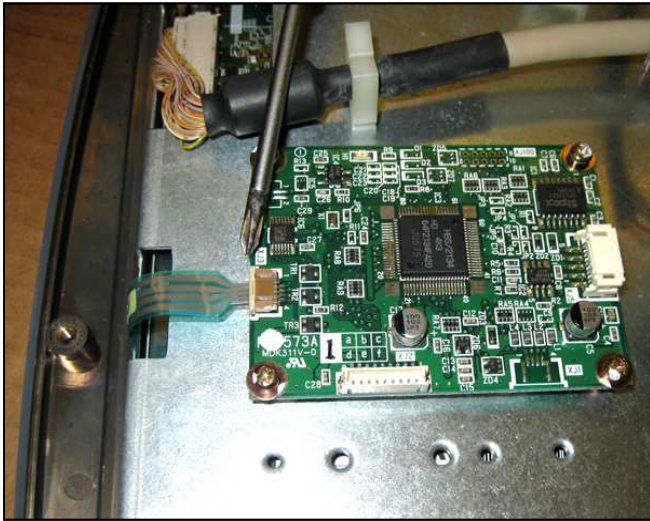


photo 19: Place the touch screen face down on a clean, flat surface to disconnect the ribbon.

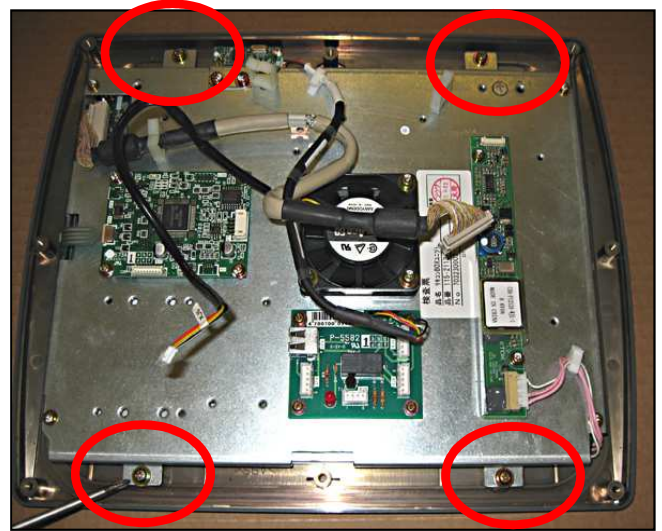


photo 20: Separate the back of the touch screen from the RCU front.



photo 21: Carefully remove the metal plate and LCD screen and set it aside.



photo 22: Place the front of the RCU face up.



photo 23: Use a utility knife to carefully lift the front cover.

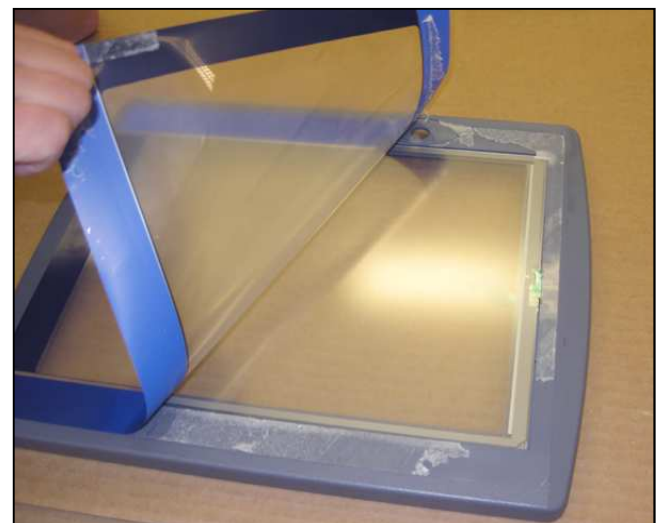


photo 24: Firmly and smoothly remove the old cover from the front.



photo 25: Begin the slow process of removing the glue that remains on the RCU front.



photo 26: It may take an hour of rubbing to remove the adhesive.



photo 27: Lift the camera cover with a utility knife.



photo 28: Peel the camera cover back to remove.

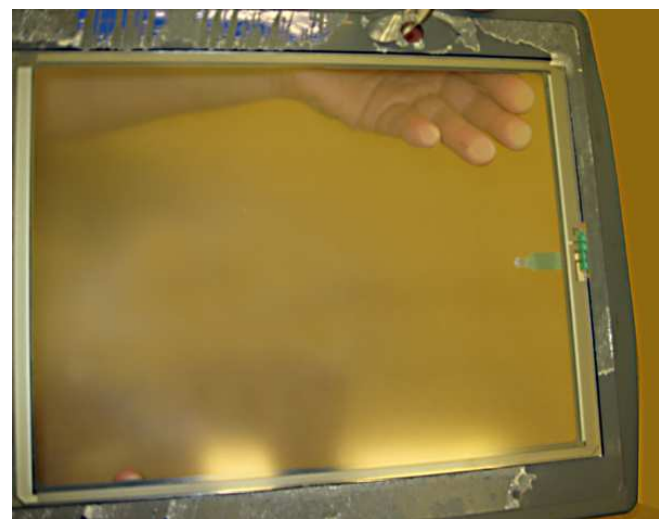


photo 29: Gently press the touch screen from the front side and loosen the screen.



photo 30: Lift out the old touch screen and set it aside.





photo 31: Peel the adhesive strip from the RCU cover inner slot.



photo 32: After all the adhesive is removed, begin the installation of the new parts.



photo 33: Remove the white protective layer from the blue border strip.

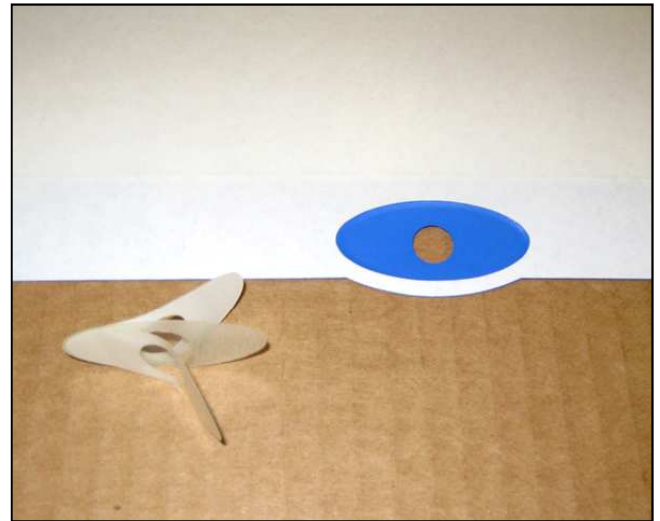


photo 34: Separate the camera cover oval's three layers and remove the bottom layer.

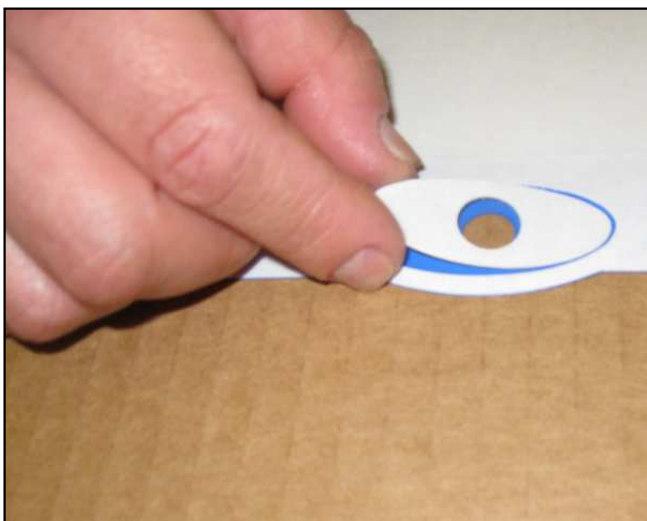


photo 35: Carefully place the oval covering the camera area into position.

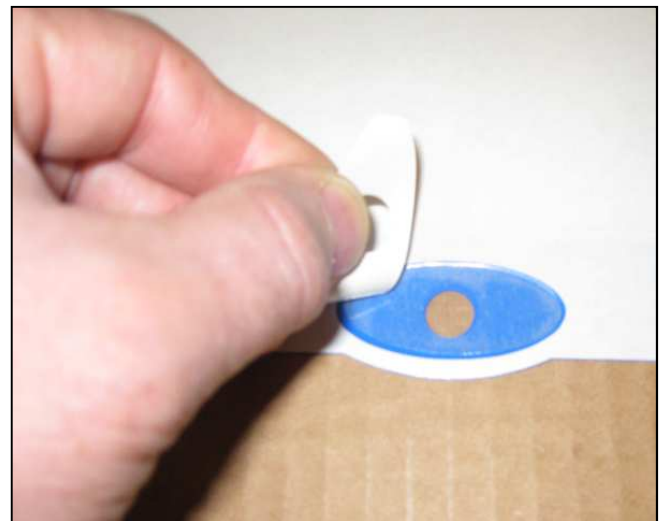


photo 36: Remove the top white oval.

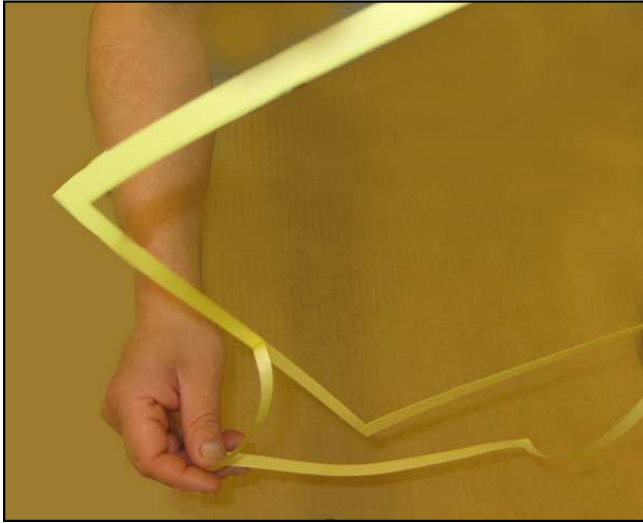


photo 37: Separate the bottom layer from the thin flexible yellow strip revealing the adhesive.

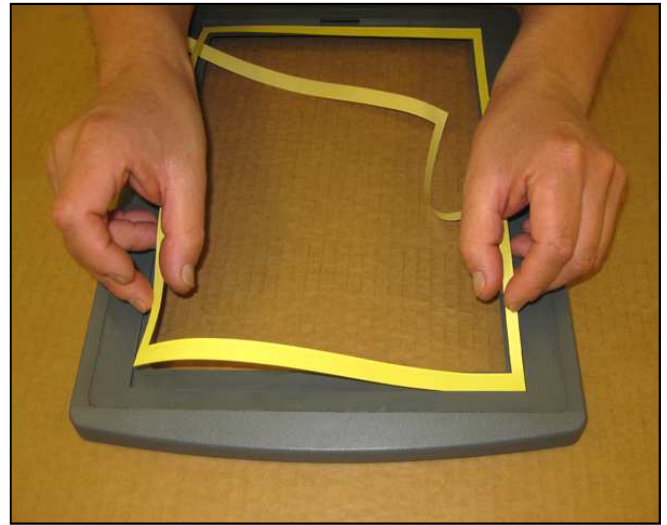


photo 38: Carefully insert the adhesive side into position on the RCU's inner slot as shown.

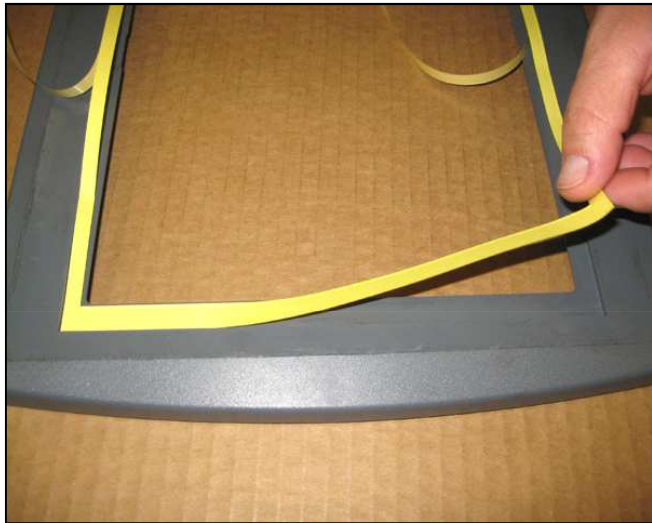


photo 39: Continue to gently lower the sides of the strip aligning the edges with the slot.

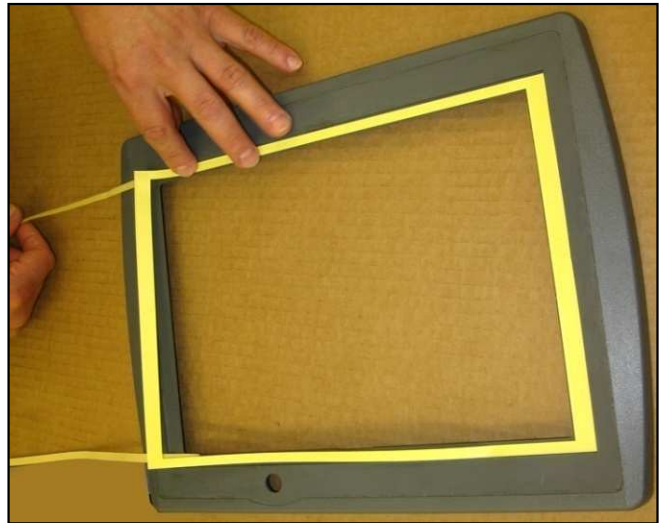


photo 40: Press and hold the strip while pulling the backing out of the RCU front.

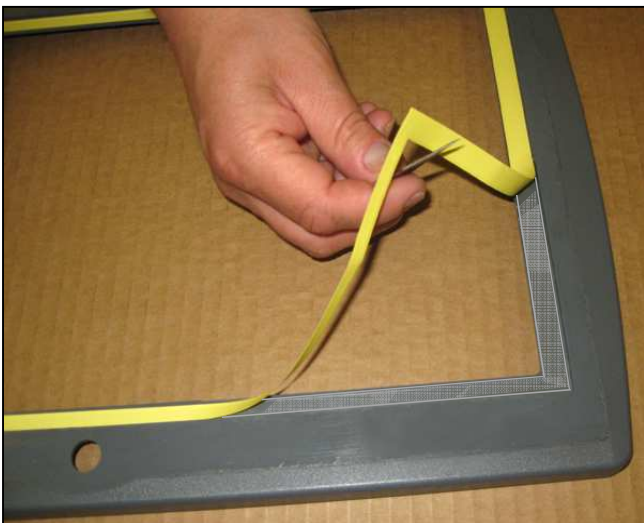


photo 41: Separate the top layer from the thin flexible yellow strip revealing the adhesive.



photo 42: The new adhesive strip is shown with the top yellow layer removed.





photo 43: Remove the protective layer from the front side of the new touch screen.

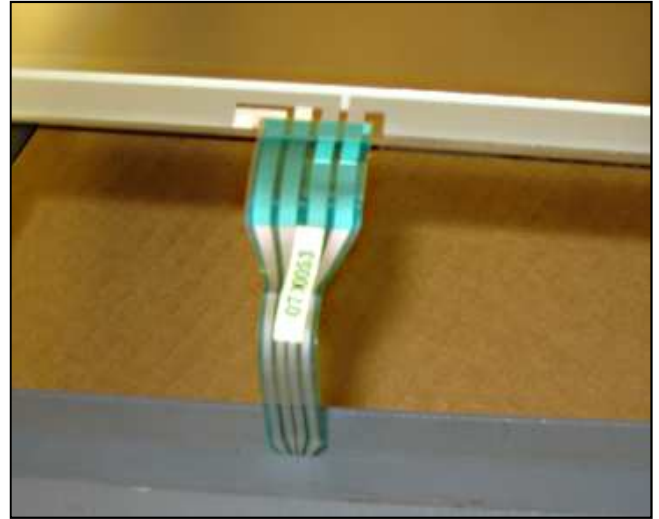


photo 44: Place the touch screen in the RCU with the ribbon number-side up by the ribbon slot..



photo 45: Place the touch screen into position and hold the ribbon side up.



photo 46: Tuck the ribbon through the slot.



photo 47: Lower the touch screen in place.



photo 48: Remove the protective plastic sheet.



photo 49: Separate the white backing and bend it in half without creasing.



photo 50: Place the touch screen cover precisely and lower slowly to avoid creases or bubbles.



photo 51: Check the blue cover's position and smooth it slowly as the backing is removed.



photo 52: Be very careful to align the cover since it must be placed correctly the first time.



photo 53: Use a utility knife blade to lift the top corner of the protective plastic to remove it.



photo 54: Clean the front with a soft cloth.



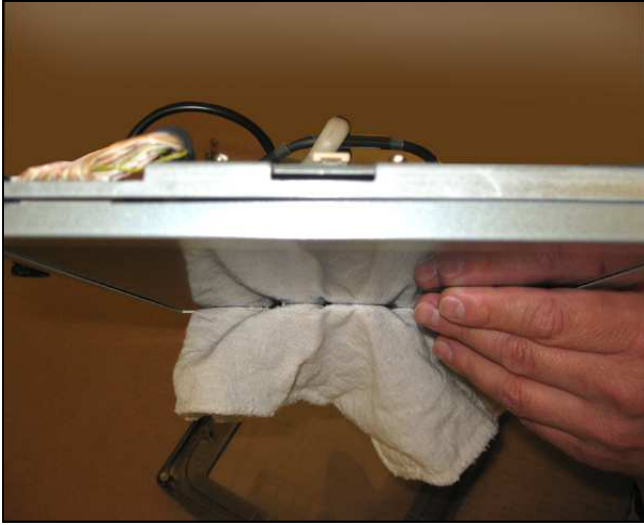


photo 55: Hold the cover using a clean cloth and examine the thin ribbon slot.

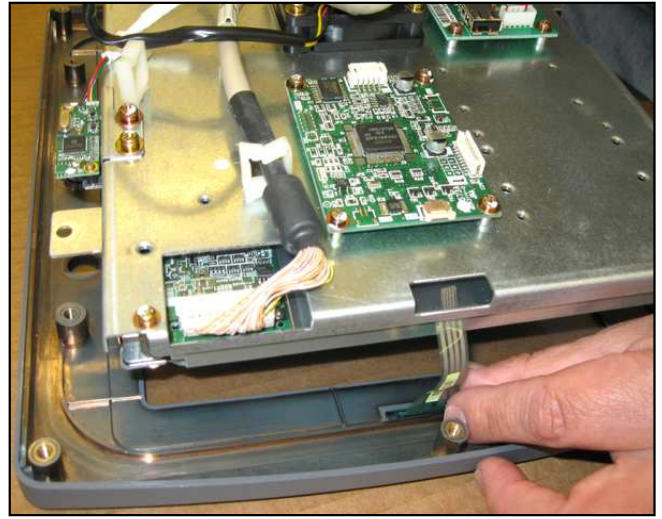


photo 56: Pass the ribbon through the slot.



photo 57: Attach the RCU front to the mounting plate using the Phillips head screws.



photo 58: Attach cables and install clamps.

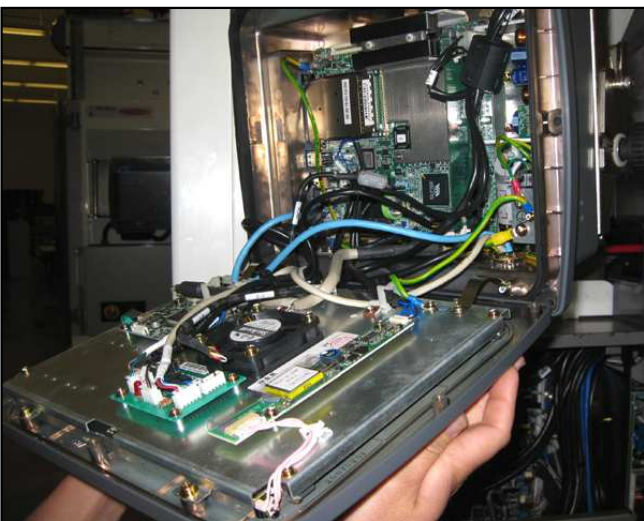


photo 59: Hold the front of the RCU into position and carefully attach the mounting straps.



photo 60: Tighten the 8 screws to close the RCU.