

This guide is designed to help someone who is comfortable with small hand tools to manually adjust the center screen in the 2021+ Palladium Tesla Model S.

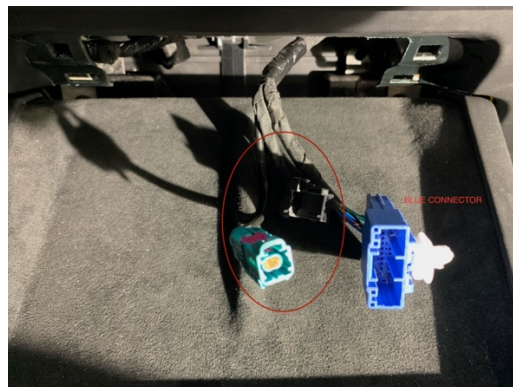
## TOOLS NEEDED

- Plastic trim removal tool
- Painters tape to protect surfaces
- Something padded like a towel to put the screen face down on
- T45 TORX bit and driver (to loosen mount assembly before adjusting)
- 10 mm socket and driver (to remove two screen mounting bolts)
- Drill on low speed (will run counter clockwise to adjust mechanism)

Remove trim piece above battery charging tray using plastic trim pry tool at top/front of panel



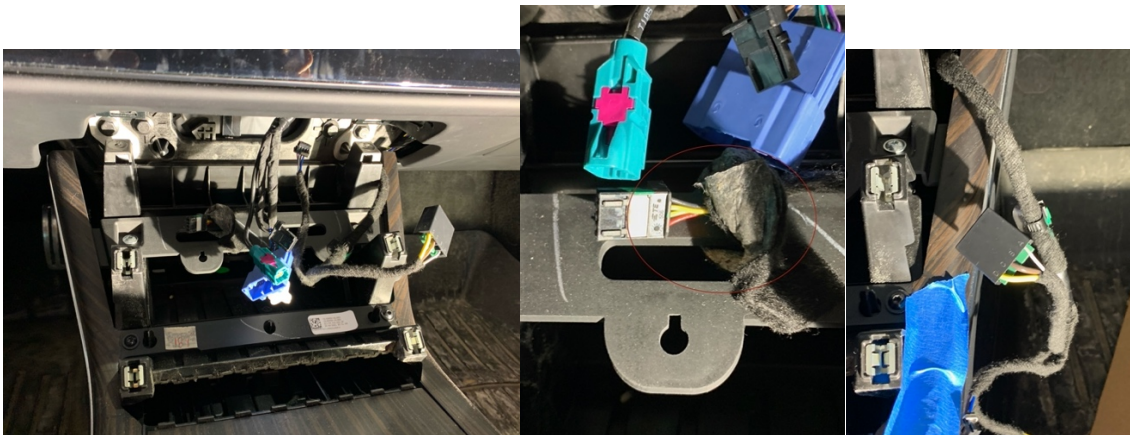
Unplug black connector and free green and blue connectors from access panel so wiring harness can be moved out of the way. Green and black connectors have push tabs on them to release them and rotate the blue connector to release the white push clip from the access panel.



Remove the battery charging tray by pulling up at the bottom on either side and then pulling it forward. Unplug the two connectors from the rear of the charger pad.



This is the accessible area with the top trim panel and charger pad removed. Pull unused black connector through tape securing loop to free wiring bundle and move wiring bundle from top access panel and charger pad to the right out of the way



Removing the two screen mounting bolts using 10 mm deep socket with extension. Deep socket not needed if extension is long enough. Remove the drivers side first as it is easiest.



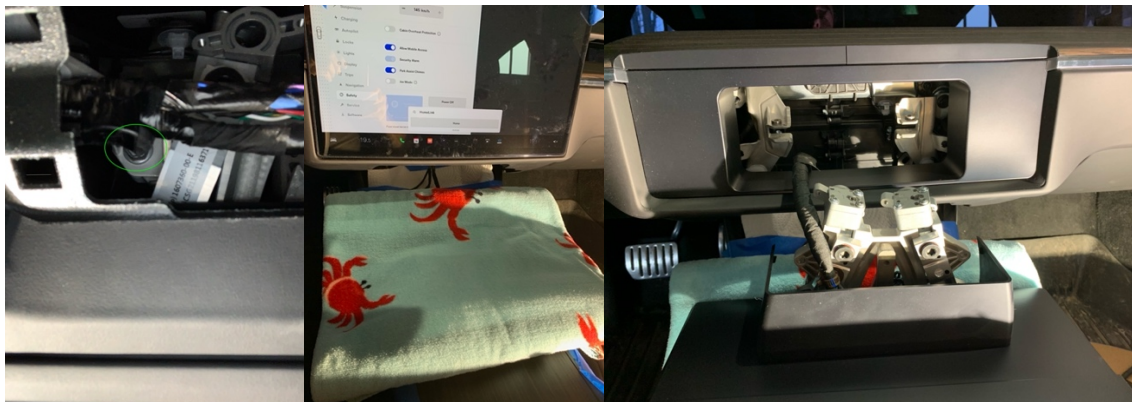


**SAFETY TIP :** put paper towel or some covering below the area you are working in as if you drop one of the mounting bolts, it will be lost forever into the voids below !

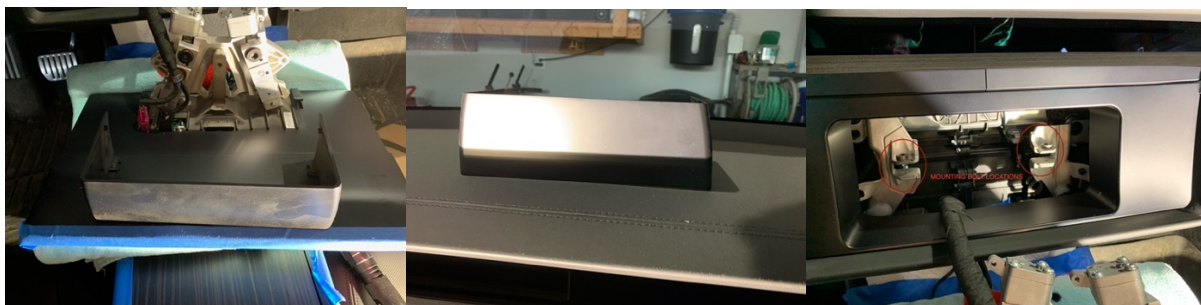


The passenger side bolt is harder to get to as there is a thick wiring bundle running right below it. Push the bundle firmly rearward to flex it and push it out of the way so you can get your tool on the bolt above. Remove the bolt and now the screen is free to pull forward and away from the car. It will NOT fall out on it's own as it sits quite a ways back into the mount.

Place something soft like a thick towel on the console and pull the screen forward and away from the car. There is enough cable that it does NOT need to be disconnected and you do not have to power the car off.



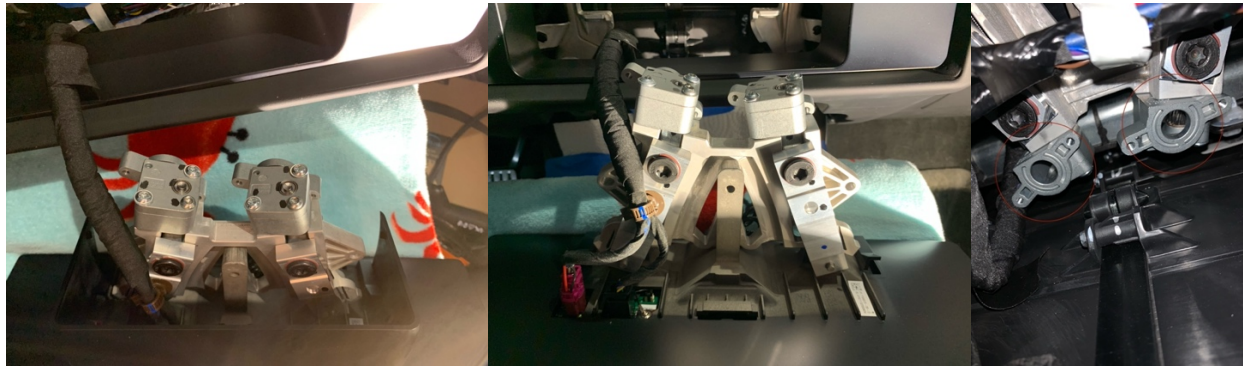
Slide the trim piece from either side along the screen towards you (top of screen). It frees easily and once clear of the mechanism can be put up on the dash. Mounting locations are visible where two bolts were removed



You now have a clear view of the mechanism. If you have not watched the video on YouTube by Sandy Munro then I highly recommend doing it now as it demonstrates how the tilt mechanism is run in and out using a drill.

<https://youtu.be/jSP2yVpcd3s>

Here is a view of the tilting mechanism including the opening in the two gearboxes where the electric motors are missing from the completed mechanism. Adding two motors at these locations along with electronics or switches to operate them forward and reverse will allow the mechanism to tilt left/right by the operator.



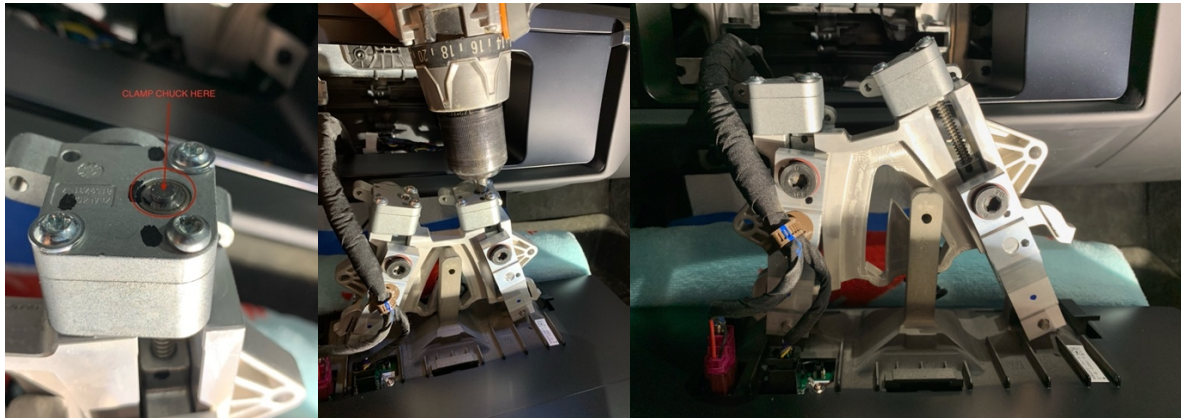
Now we have to loosen the TORX bolts with the T45 TORX bit to allow the drill to drive the mechanism to the tilt angle that we want. They only have to be loosened a couple of full turns and will be tightened up again once we are at the tilt angle we want to keep.



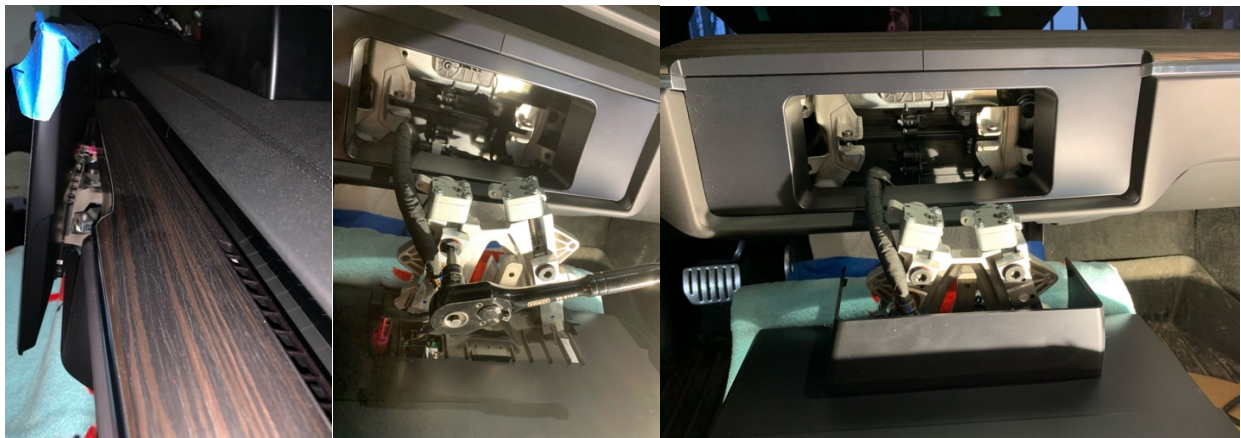
Now we are going to adjust the tilt angle using an electric drill running on LOW speed. This is done by tightening the drill chuck carefully down on the extended end of the drive shaft at the top of the gearbox.



This is the gearbox/location to clamp the drill to. It will be the one on the right or passenger side of the assembly to allow the right side of the screen to tilt outward. Run the drill slowly and counter-clockwise to drive the right side of the mount outward.



Once you drive the screw drive out a couple of inches, you can easily dry-fit the screen back into the mount to determine if you have as much tilt as you want. Once you get the amount of tilt that you want, you have to tighten down the two T45 TORX screws on either side of the mount again and slide the black trim piece back into place.



You can then slide the screen back into the mount as far as it goes and reinsert the two 10 mm bolts on either side. Once you start threading the bolts back in, wiggle the screen to ensure that the bolt is up through the screen and mount (verifying that you it pushed back in far enough) and then tighten hand tight.

Reverse the process of mounting the charger tray back into position after plugging the two connectors back in and feeding the unused loose connector back through the tape loop shown earlier in this document. The charger tray pushes in to place at the top/back and then push down to secure to the console.

Reverse the process to reinstall the top access panel but plugging the temperature sensor cable back in, sliding the green fiber optic connector back onto the mount and snap the white push clip on the blue unused connector back to the hole in the top access panel. At the rear/bottom of the top access panel are clips on either side that slide back into the holes on the console and then push the top two clips back into the console.

Done and this is what it looks like

