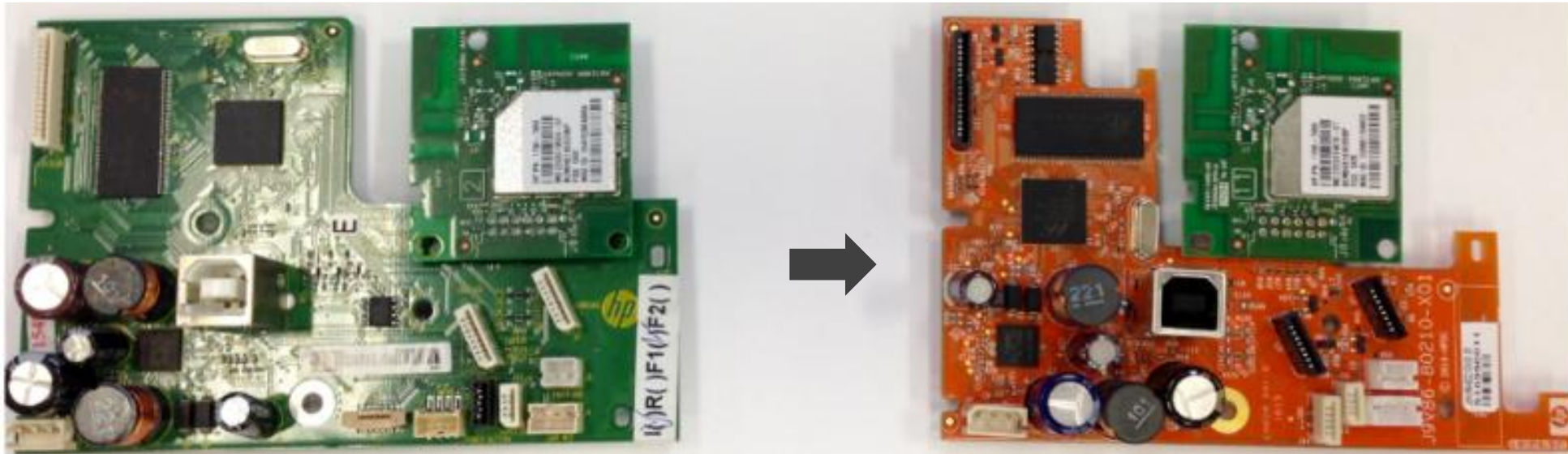
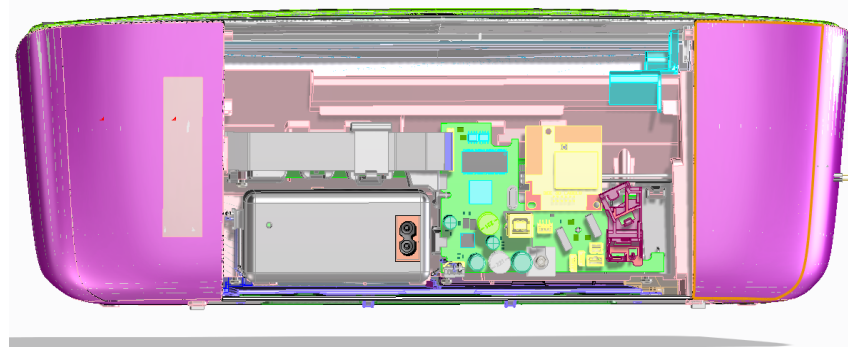
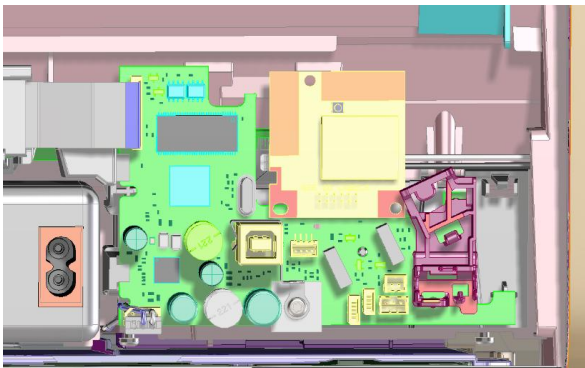


# High Volume Product Logic PCA redesign to low cost | \$1.6 M in savings

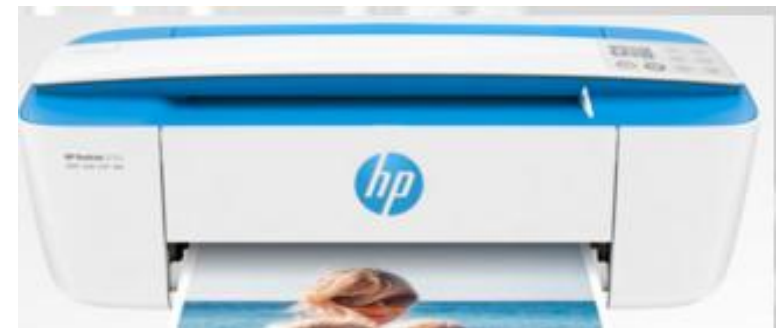


Original design Main Logic PCA

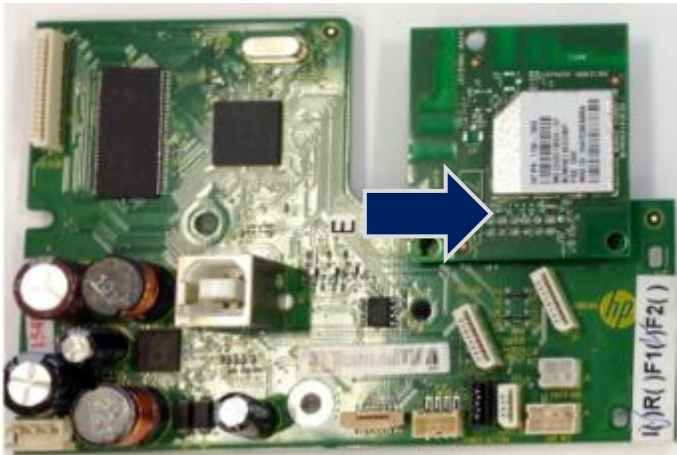
Cost reduced Design



Thorough study with Mechanical engineering for cable routing ,  
fire enclosure, final assembly with the reduced cost board



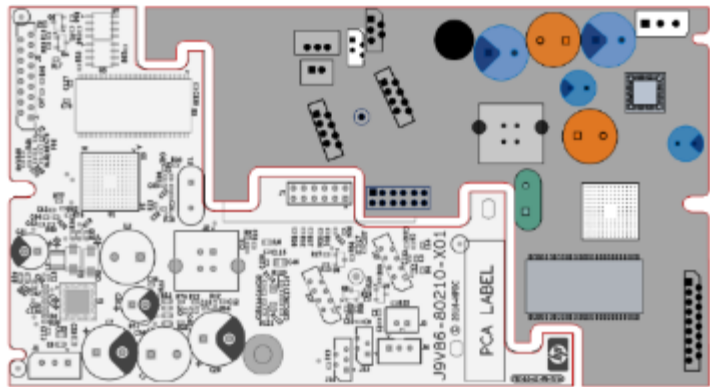
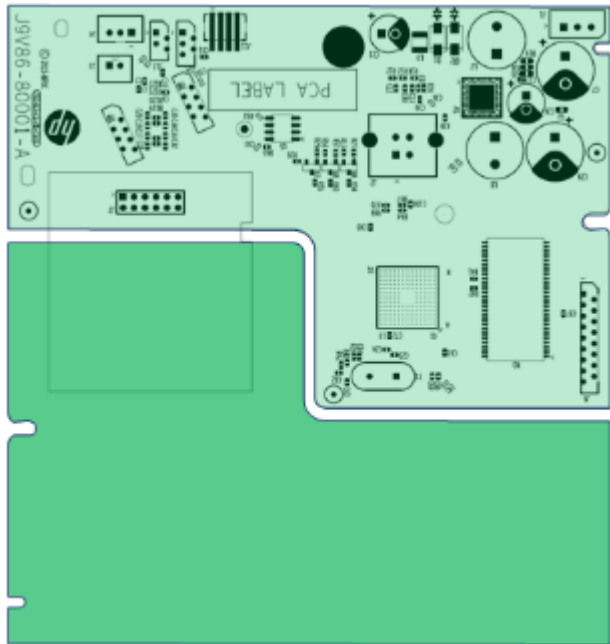
# Main PCB 23% size shrink re-design saves \$0.21/unit



Original Main PCA \$0.80/ PCB



Redesign PCB new cost estimate \$0.59/PCB



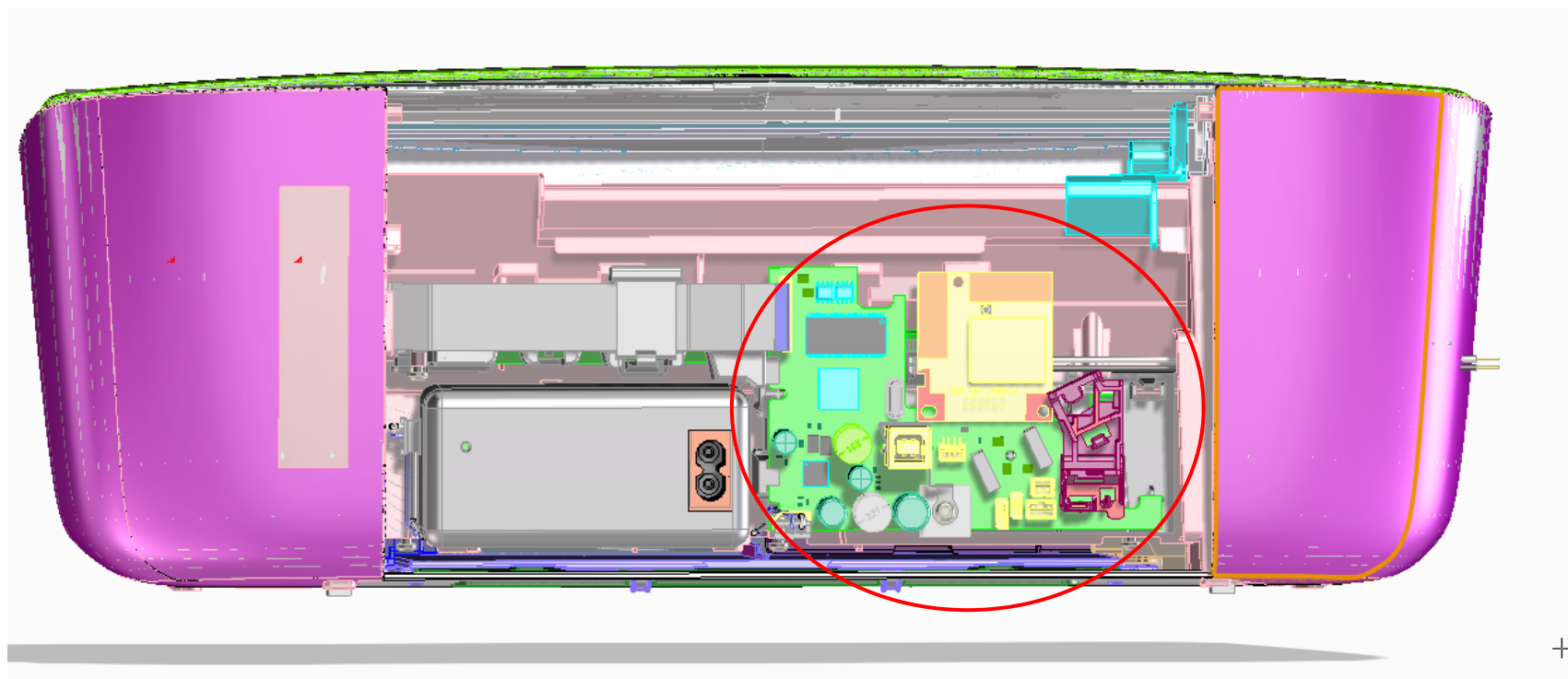
Improved nesting on Panel



Trays Removed

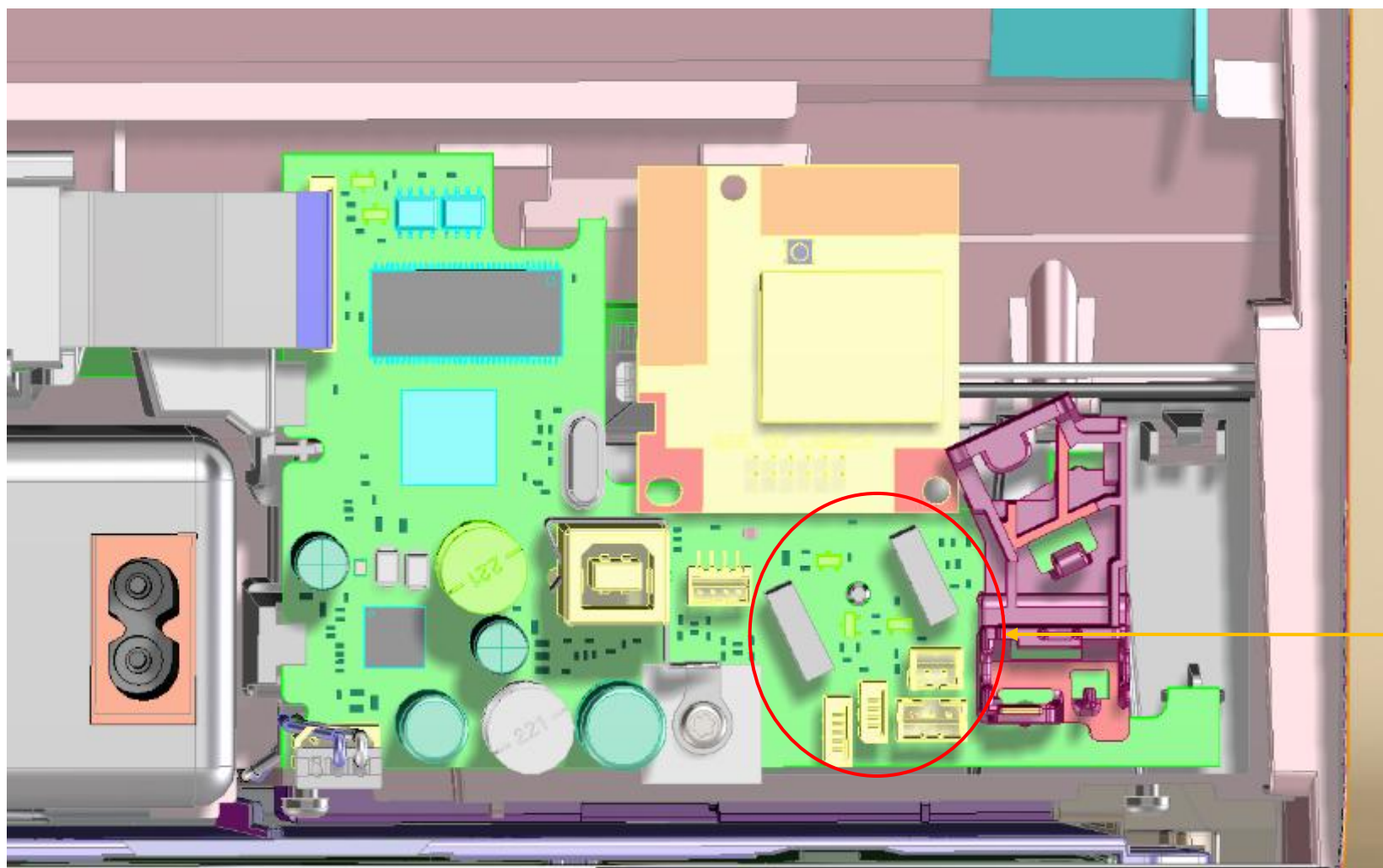


Power Cover Removed

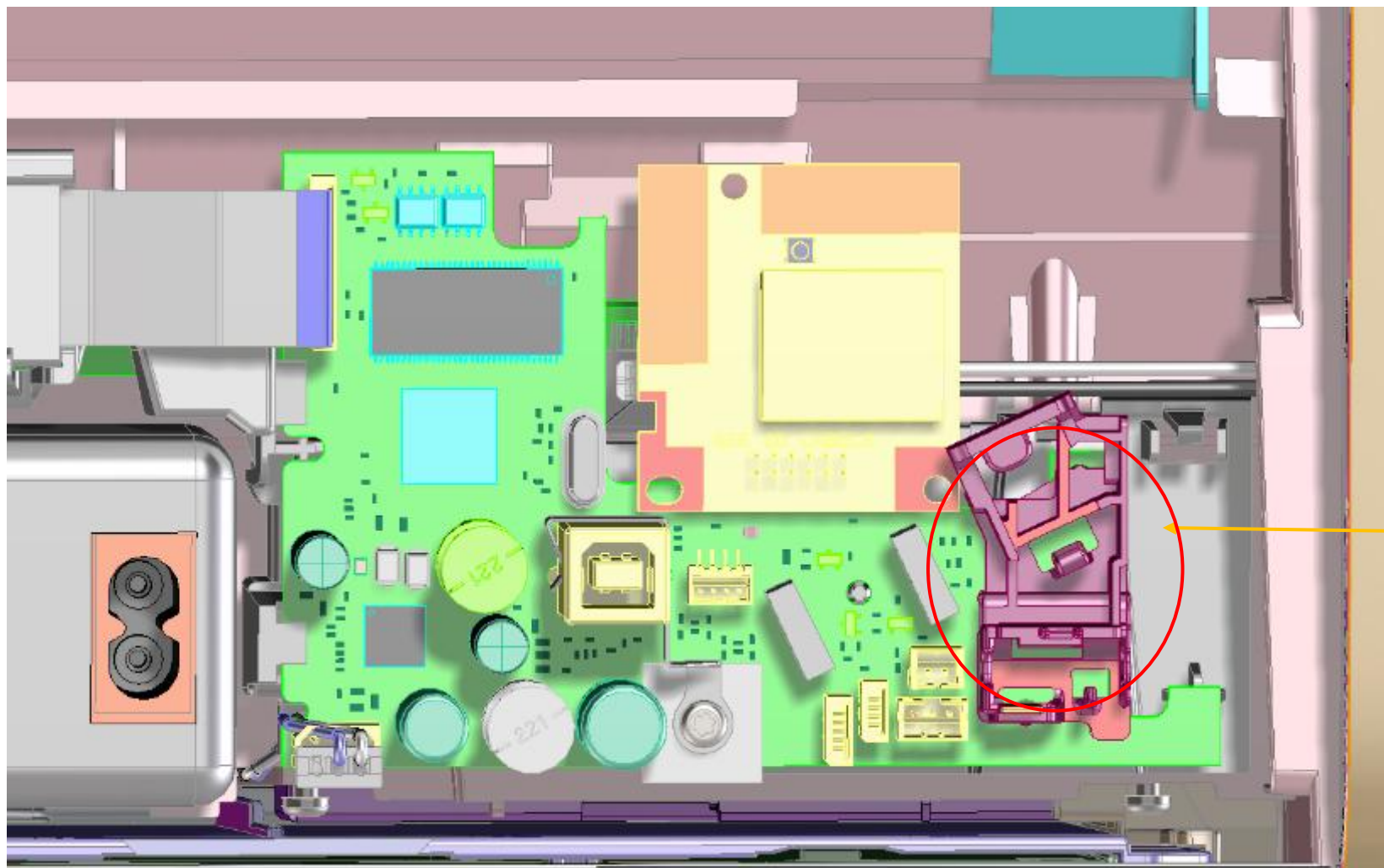


# Changes from Previous Board



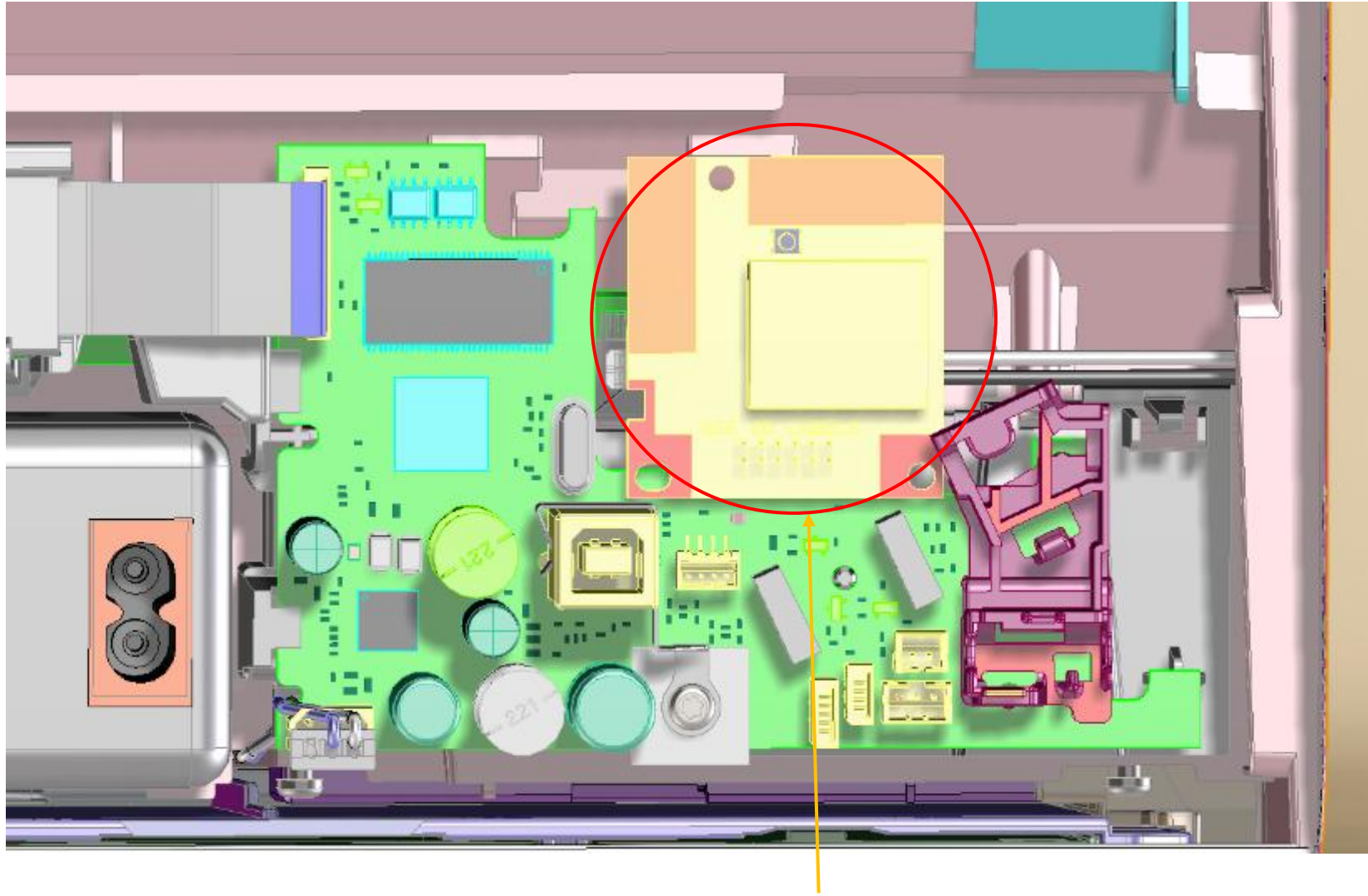


Connectors and Cabling  
Shifted Left (Cables &  
Ground Strap not Shown)



Ferrite Clip Shifted Left  
(Ferrite not shown)





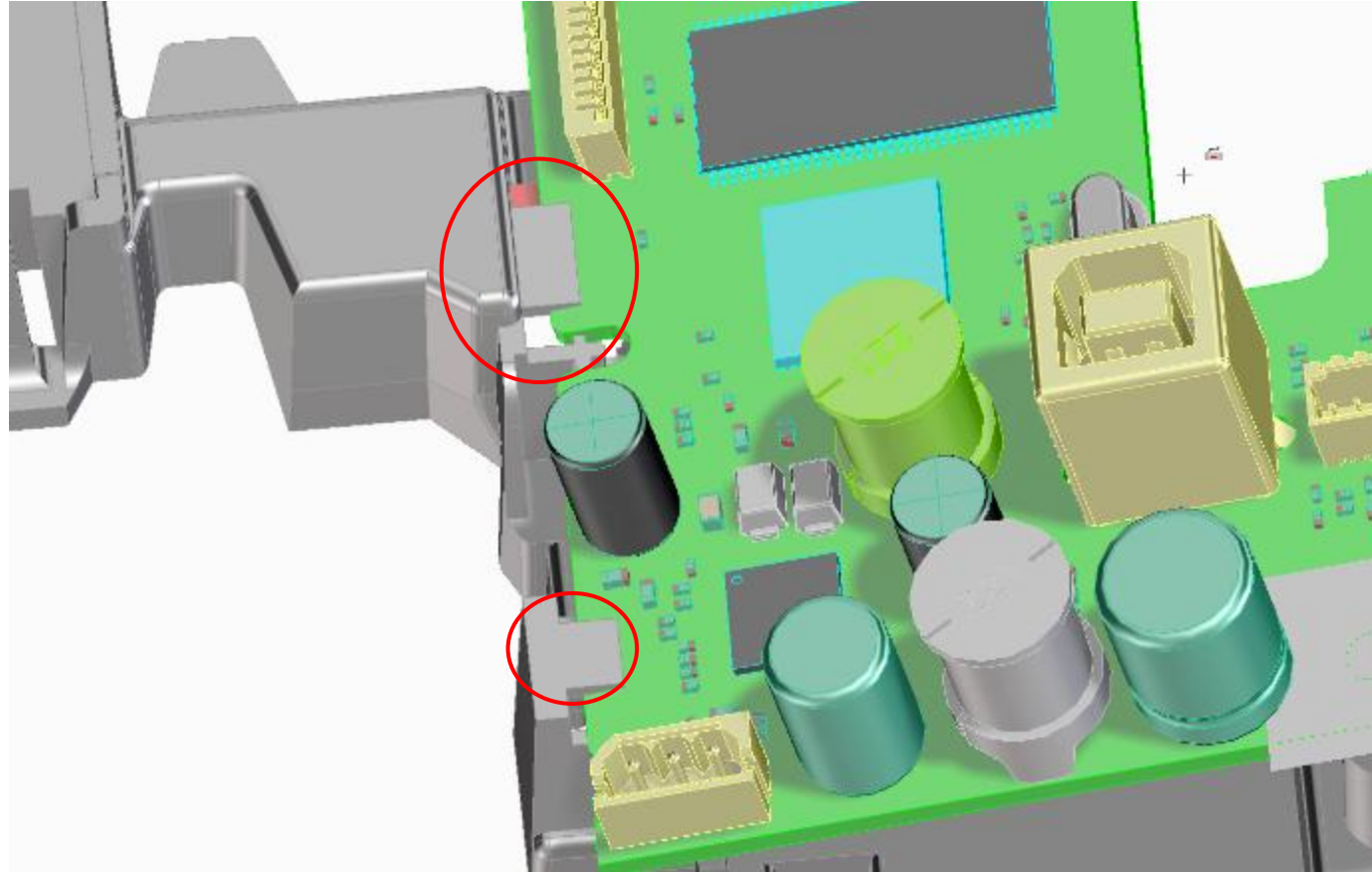
Wifi Card Shifted Up



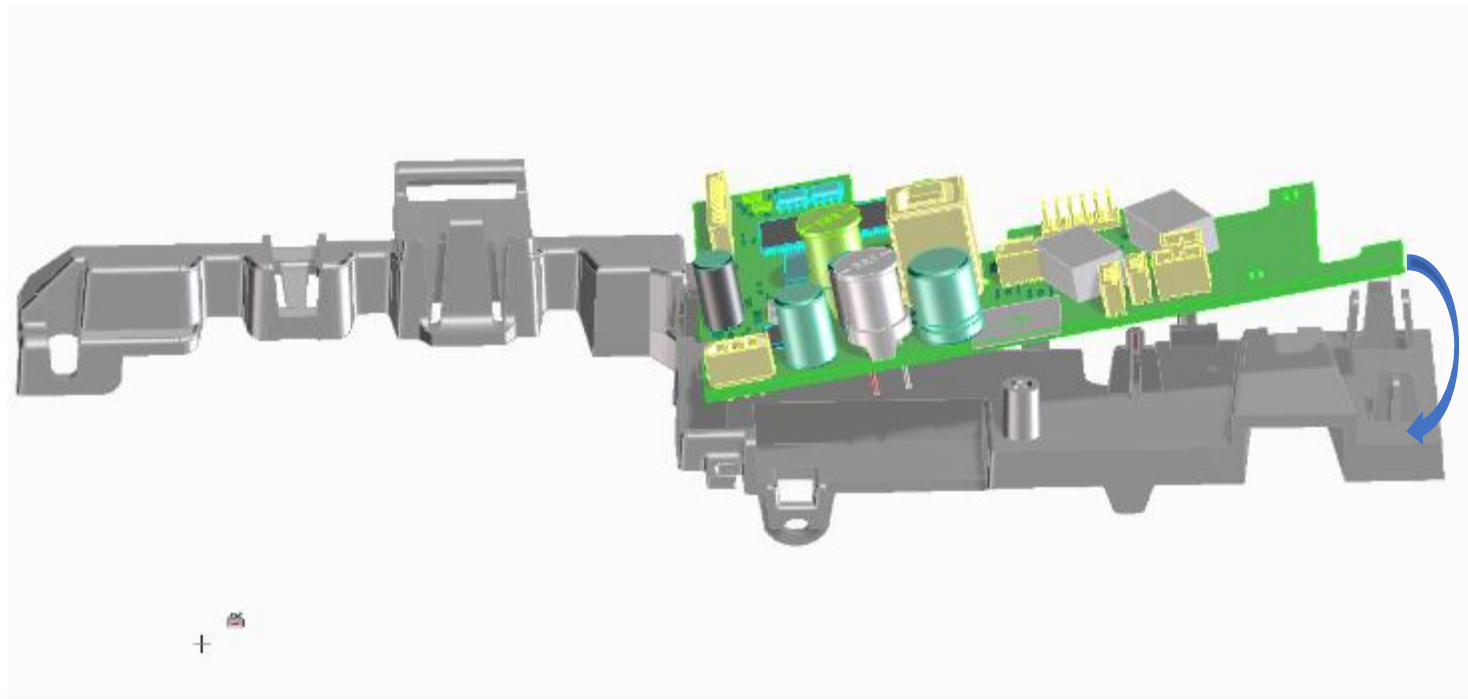
Power  
Shifted Left

Assembly

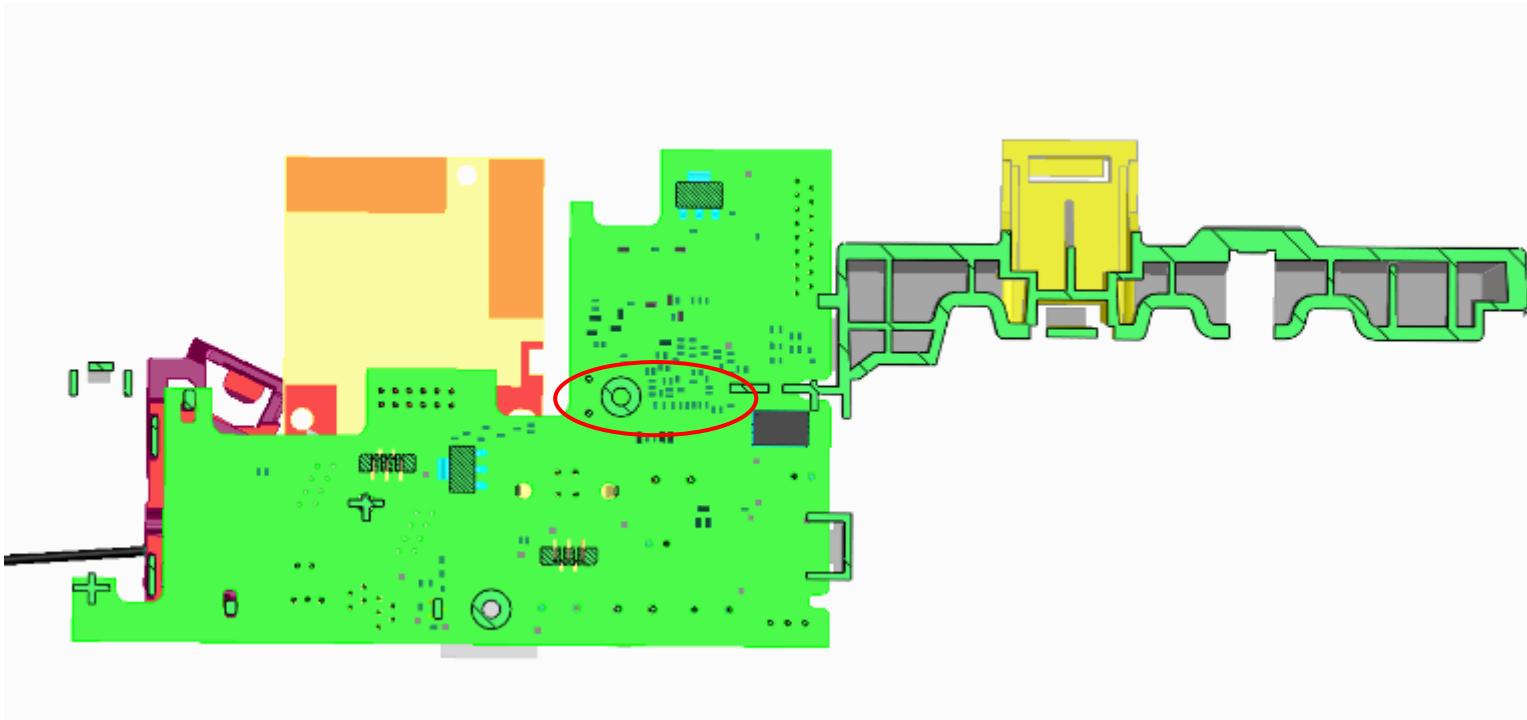
## MPCA Insertion Guides



Board Rocks into Position



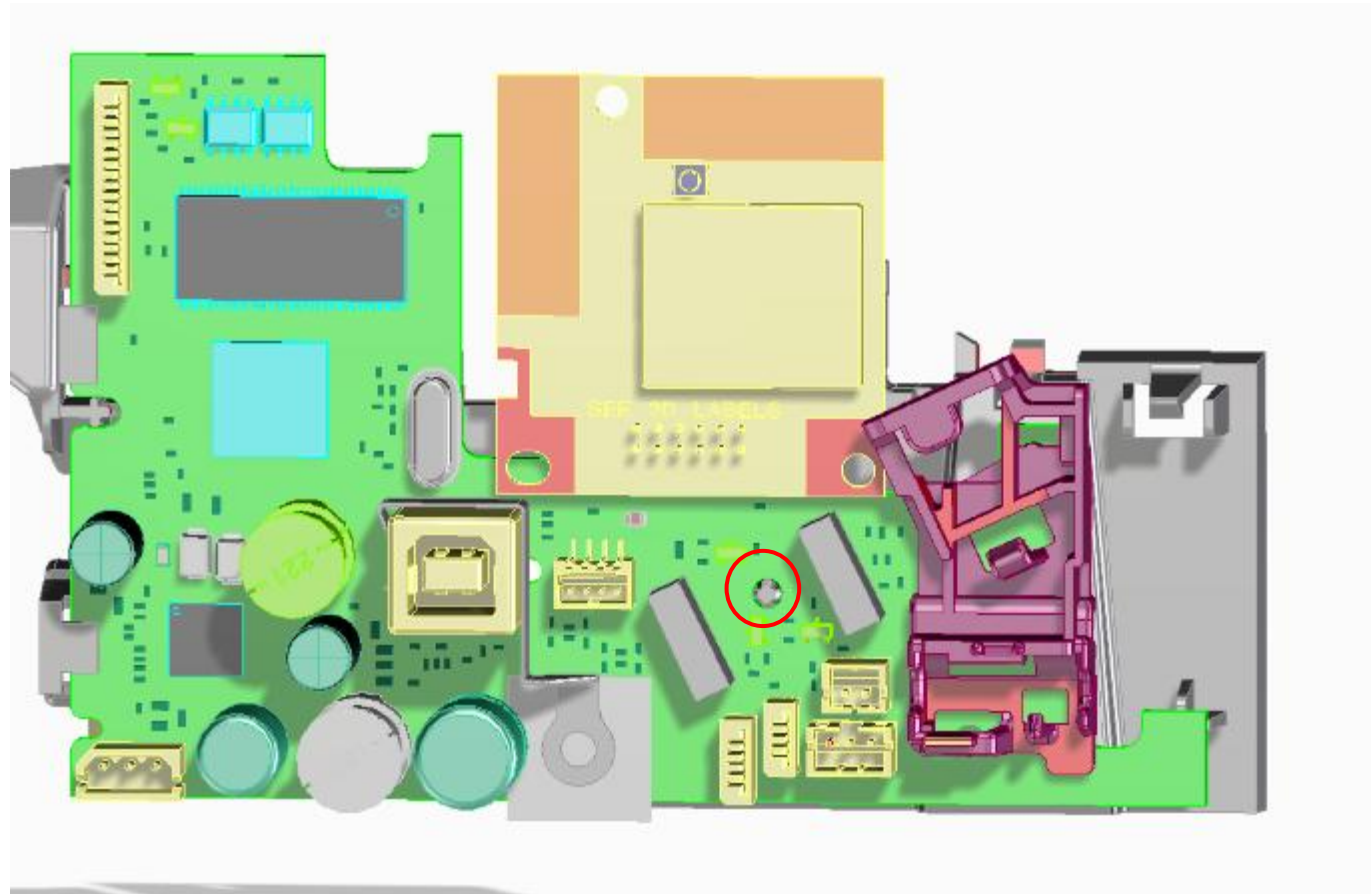


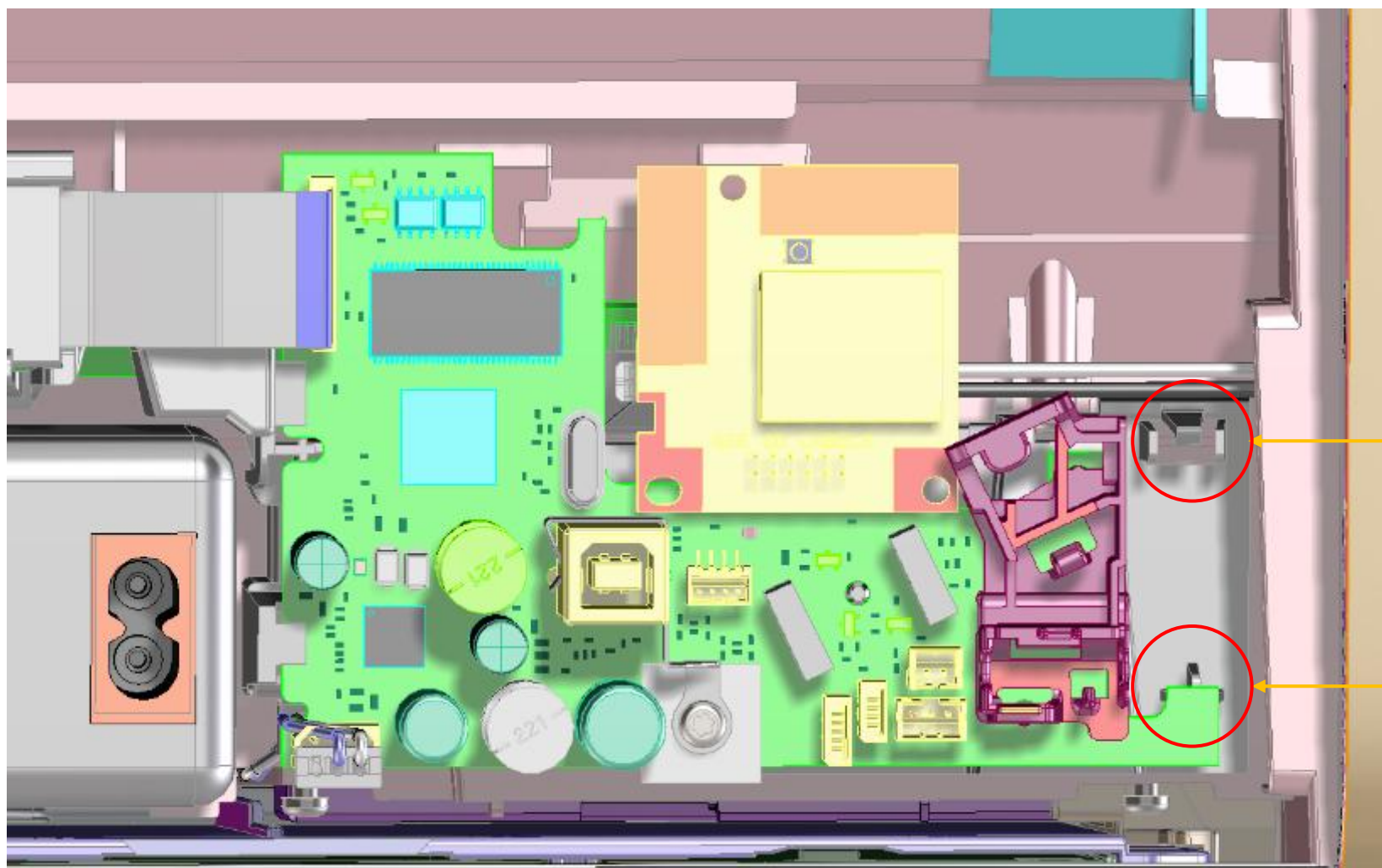


CAUTION:  
Do not Damage  
Components on  
Back by Sliding  
Left and Right

Trace View of Back  
of MPCA

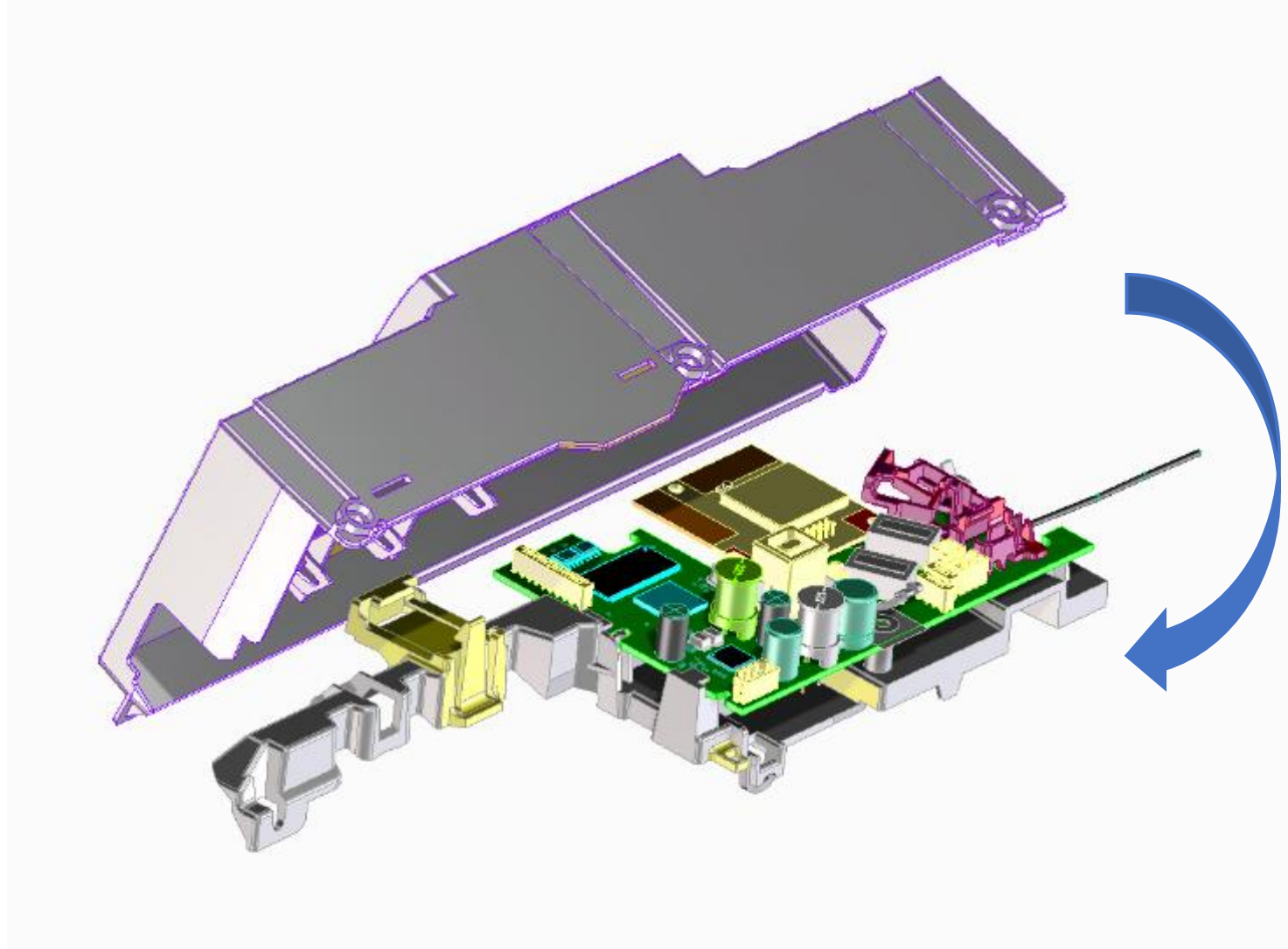
Insert into MPCA Centering Post





Clip No Longer Used

Board Rests on Post



Power Cover Rocks  
into Place

Wifi Card and Board Need to  
Clear Cover on Assembly



CAUTION:  
Board Should  
not Rub on  
Assembly