

## **CONTROLLER-SENSOR-DISPLAY INTEGRATION CHECKLIST**

- Is the controller grounded, either through 5mm metal mounting standoffs or via a low impedance ground cable to chassis ground of the integration? 
- Is the controller spaced away from all nearby metal work by at least 5mm? 
- Are the sensor flexible cables routed so that they do not cross over each other? 
- If the flexible cables bend, do they bend to a radius of no less than 2.5mm? 
- Are the flexible cables inserted into the correct ZIF connector sockets on the touch controller (check the TX and RX locations)? 
- Are the flexible cables inserted into the ZIF connector sockets in the correct way (generally gold contacts face up – please refer to your specific sensor part number drawing for special cases where gold contacts may need to be placed face down)? 
- Are the flexible cables fully inserted and seated into the ZIF connector sockets correctly and secured in place with the locking latch? 
- Is the gasket used between the LCD and the touch sensor of the correct thickness to minimise EMI interference from the display (experimentation with air gaps may be needed to reduce EMI interference)? 
- If a metal bezel has been used around the front or rear perimeter of the sensor, is it spaced away from the sensor to minimise capacitive coupling? 
- If a metal bezel has been used, is it grounded to a common ground point along with the metal chassis, LCD and touch controller? 