CHE Controller Parts List

Top Coverplate

1" Case Screws

Backplate

2.7"LCD Screen

LED Lightpipe

Screen Coverplate Top

Antenna

Brainboard Mounting Screws, Mounting Nuts, Screw Spacer 3mm

Four Screw Core A & B

Daughterboard PCBA

Screen Coverplate Bottom
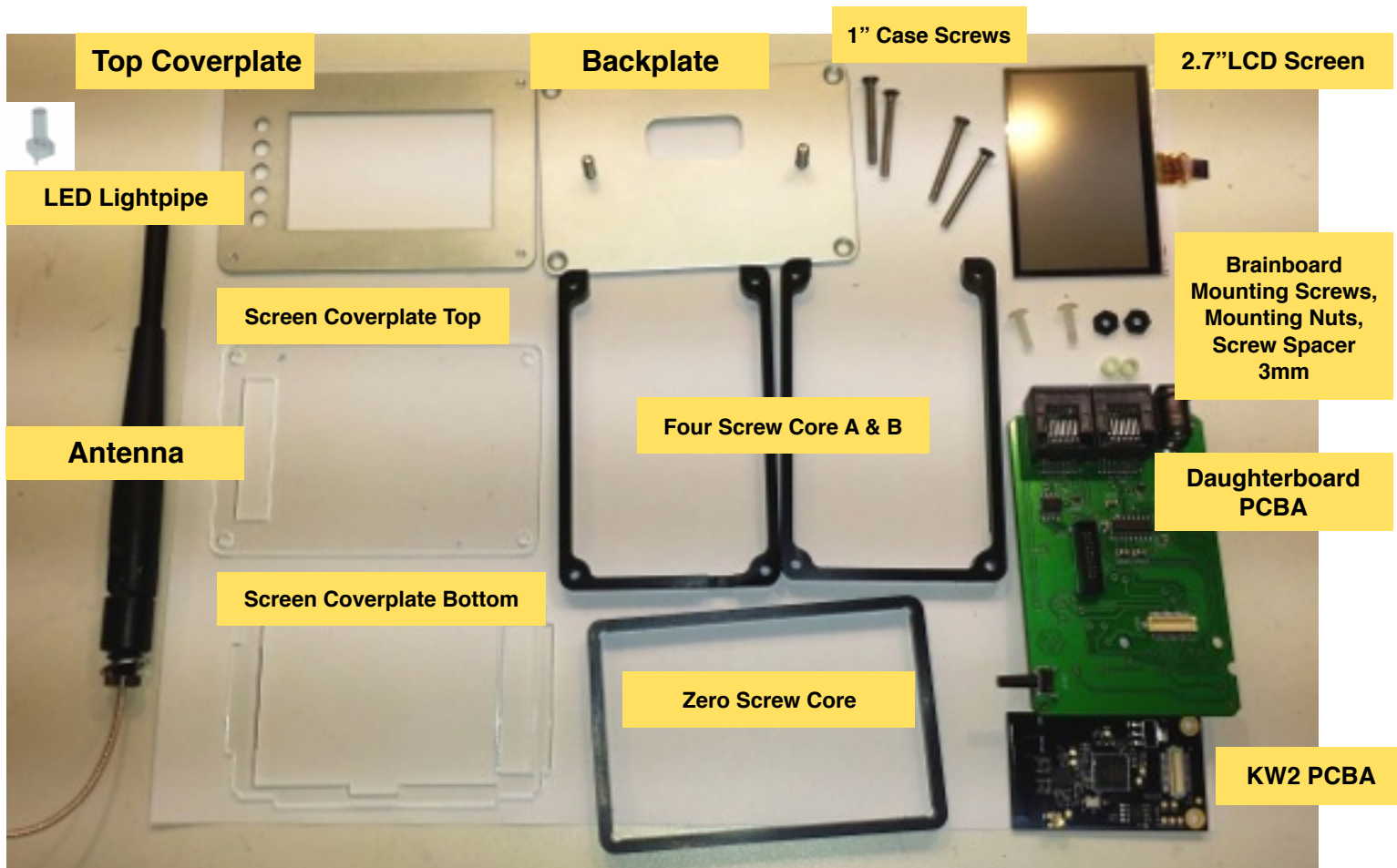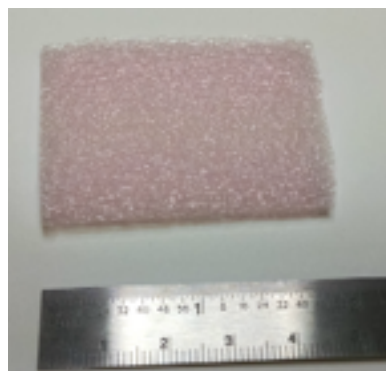
Zero Screw Core

KW2 PCBA

Screen Mounting Tape   **Anti-Static Foam**
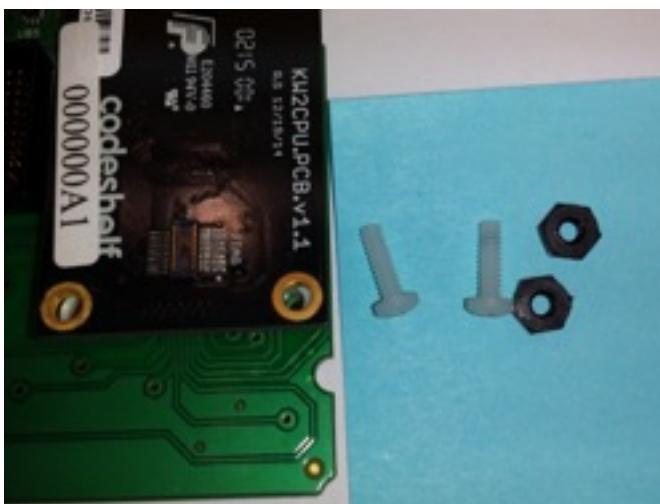
1. Attach Brain board to CHE board

Gently seat the plug on the KW2 BRAINBOARD onto the socket of the CHECON Daughterboard PCBA and snap them together. Be sure they align properly and seat firmly.

carefully align plug with socket and gently snap into place

Insert two 3mm SCREW SPACERs between BRAINBOARD PCBA and DAUGHTERBOARD PCBA. Align with screw holes in both boards.

Insert two BRAINBOARD MOUNTING SCREWS (Nylon 4-40 Thread, 3/8" Length)through BRAINBOARD, 3mm SCREW SPACERS and DAUGHTERBOARD Secure with two BRAINBOARD MOUNTING NUTS (Nylon 6/6 Hex Nut).
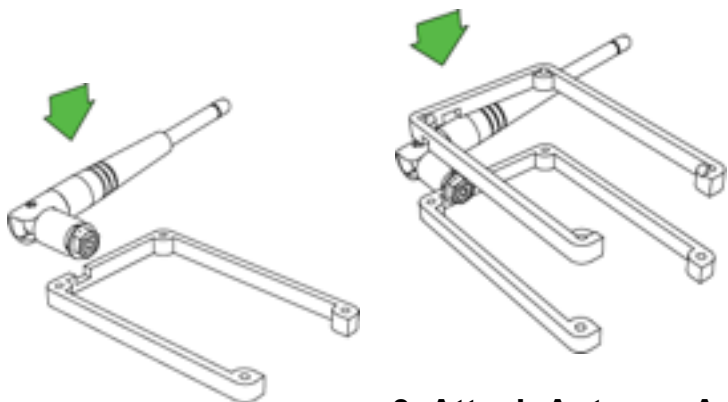
2. Assemble FOUR SCREW CORES A & B and ANTENNA.
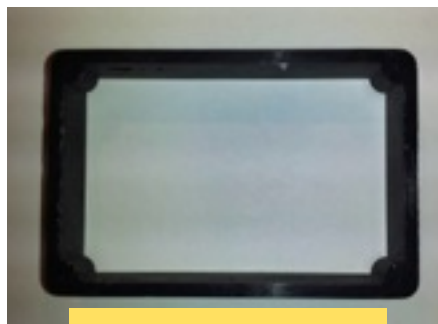
Lay Antenna into groove of CORE A

Align notch in CORE B with notch in CORE A, and place CORE B over the exposed base of the ANTENNA. Tighten ANTENNA nut to secure it to both cores. The nut should be tight enough that the antenna remains in position. Be careful not to over-tighten.

3. Attach Antenna Assembly to BACKPLATE

Insert four 1" CASE SCREWS into BACKPLATE. They should sit flush in the countersunk holes. Lay it on CHE assembly platform
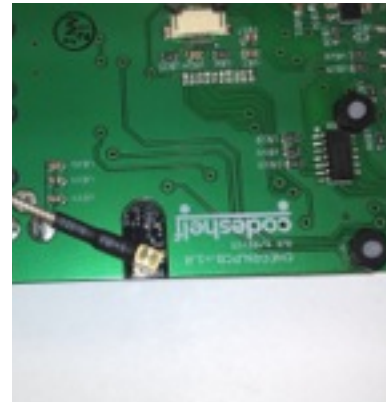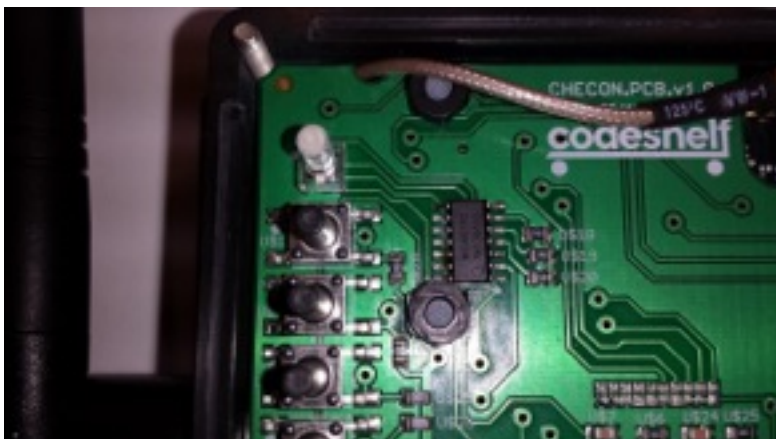

CHE Assembly Platform

Align Antenna Assembly so that ANTENNA is to the left and fit over 1" MOUNTING SCREWS on the BACKPLATE.

4. Attach ANTENNA to KW2/DAUGHTERBOARD Assembly

Snap ANTENNA connector to KW2 BRAINBOARD socket. This is the small brass socket seen through the notch in the DAUGHTERBOARD when it is placed on a surface face-up (codeshelf logo visible).
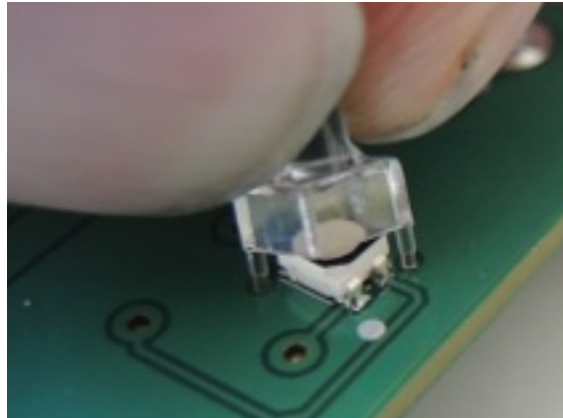

Tilt the DAUGHTERBOARD onto the Core Assembly. The Reset Button should protrude through the slot facing you. The Antenna Cable should be routed in a straight line along the edge of the core, and into the small notch to the left of the Codeshelf logo, as shown below:

5. Mount the LED Lightpipe to the Daughterboard PCBA

Seat the Lightpipe over the LED on the DAUGHTERBOARD PCBA. The LED is located above the buttons on the left side of the daughterboard.

6. Mount the ZERO SCREW CORE to the Assembly

Place the ZERO SCREW CORE over the four MOUNTING SCREWS and gently push into place. The four milled slots on the ZERO SCREW CORE are different lengths. The correct position is with the slots facing up and the shortest one on the right, over the RJ45 and power ports.

7. Prepare the SCREEN Assembly

Cut a 1.5" x 2" piece of the supplied pink Anti-Static foam and place it centered over the daughterboard. Be sure the FPC Connector remains exposed (you'll be connecting the screen to it.)

Place the SCREEN face-up (you should see a grey rectangle within a black rectangle, as shown above) and put the SCREEN COVERPLATE BOTTOM over the top of it so that the FPC ribbon connector is underneath the screen tray. Flip both parts over. Be careful with the ribbon connector—it is VERY delicate.

Align the screen with the top of the screen tray, then *very gently* tape the screen down as shown. The screen is very delicate and easy to crack.

Spin CHECON Assembly 180 degrees

Pull both of the tabs on the FPC connector to open it. It will not seat the ribbon unless it's open.

Insert LCD Screen Ribbon Connector into FPC connector and gently pull the black tabs toward you at the same time to lock the ribbon into place. It should be seated as shown below, with the ribbon traces perpendicular to the connector.

Lay the LCD Screen Tray Assembly flat onto the milled slots atop the ZERO SCREW CORE.

Place the SCREEN COVER over the SCREEN and the four 1" MOUNTING SCREWS as shown above. Place the TOP COVERPLATE over the SCREEN COVER, gently flip the CHECON over and tighten the four MOUNTING SCREWS from the back.