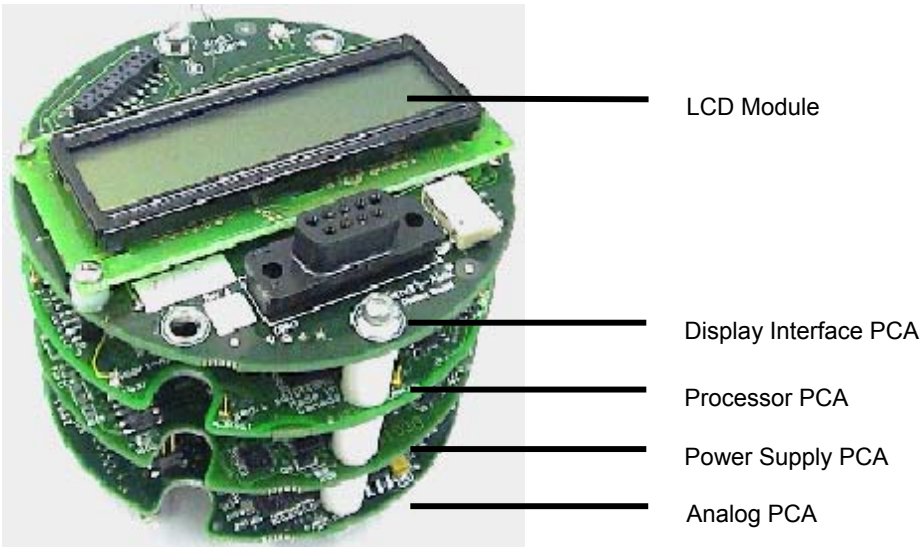
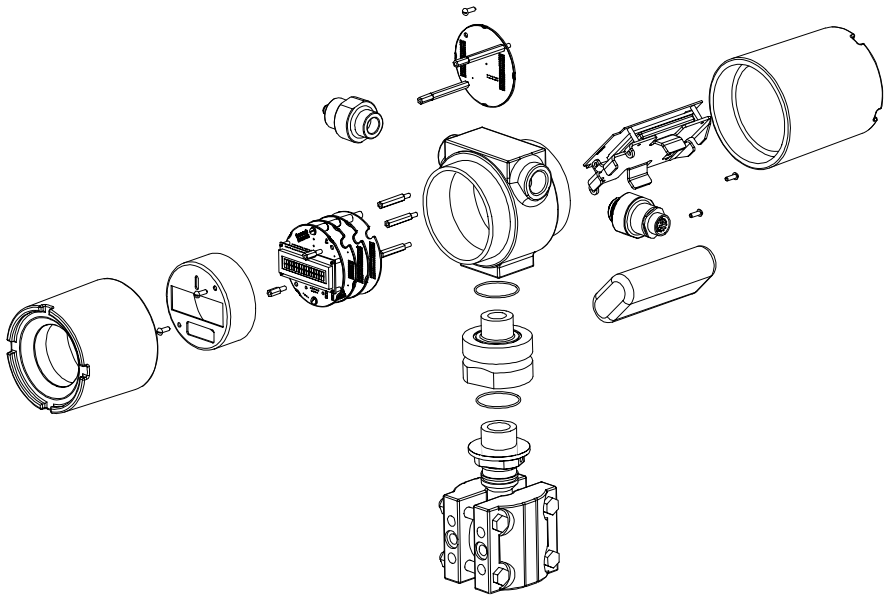
General Information on Smart-Alek V2 Board Installation





FIELD SERVICE REFERENCE DOCUMENT

zed.i solutions

General Information on Smart-Alek V2 Board Installation

CAUTION: **Static Sensitive Device(s)**

Contains components susceptible to damage from Electrostatic Discharge. Handle only at static-protected workstations using static preventive processes.

CAUTION: Place Smart-Alek into **Off-line mode** and **turn off power** prior to performing this procedure.

Display Board Removal

Remove 2 screws holding cover

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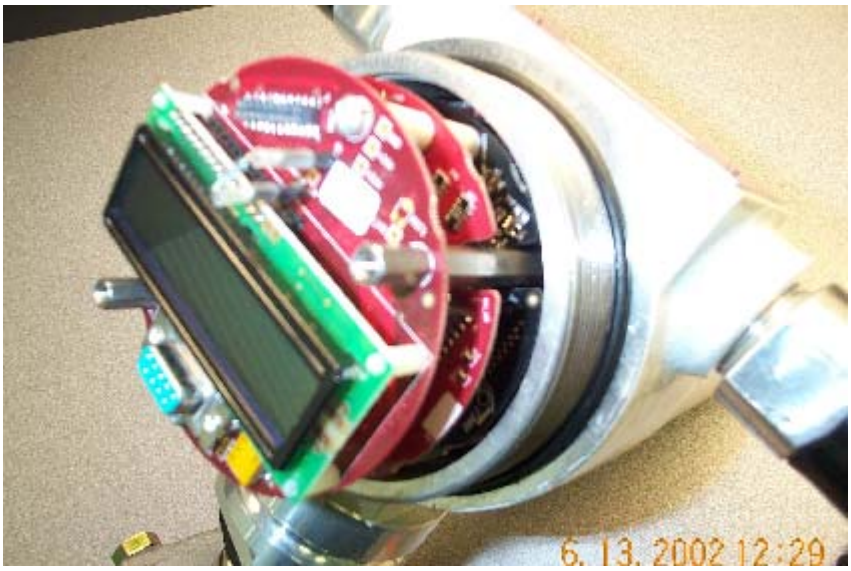

Remove Cover (Shown with cover removed)

Remove 2 screws that hold board-stack down

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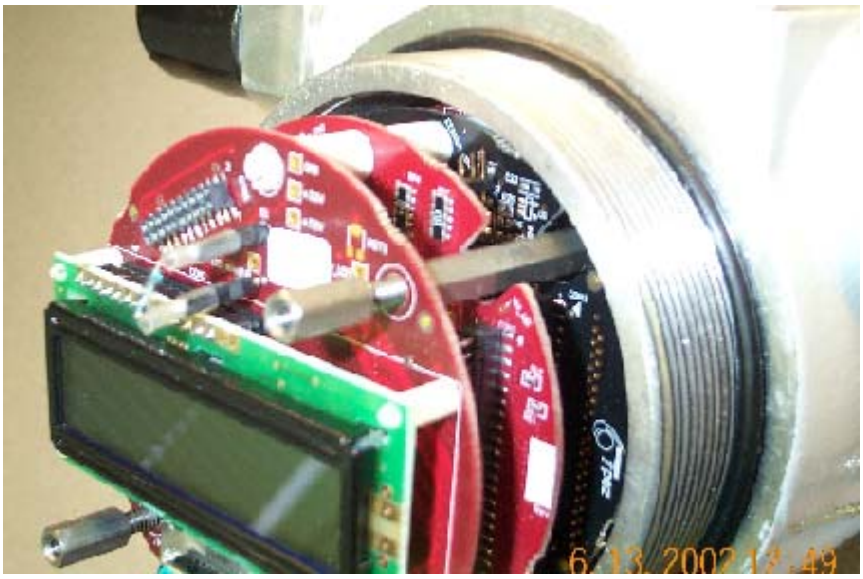


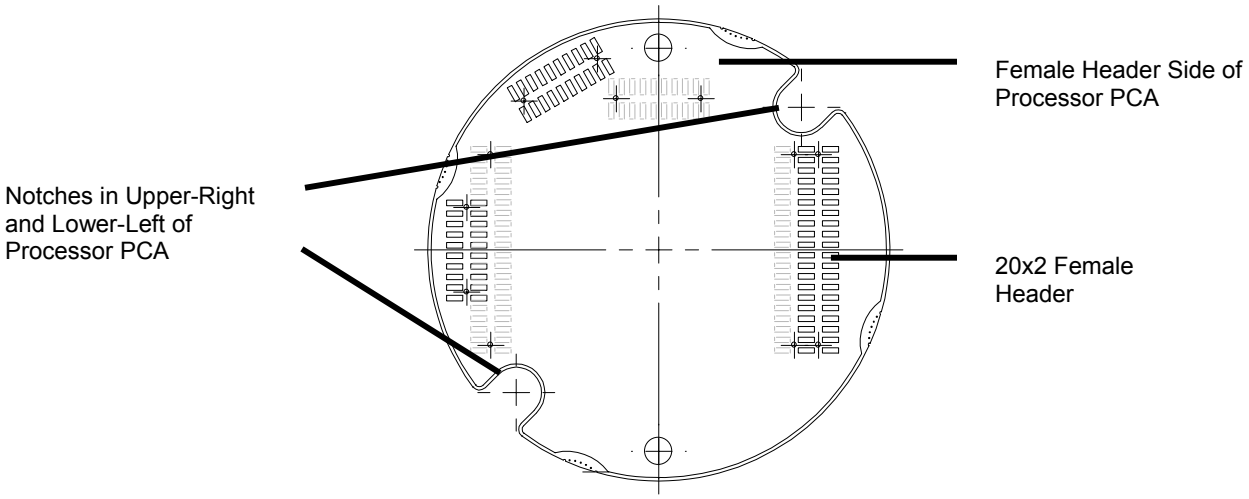
Remove 2 standoffs that hold Display Board

Remove Display Board (shown with board removed)

Installation

> **Note:** Make sure the **Button Battery** is installed in the appropriate location on the **Display Interface PCA** when assembling the Display Interface PCA on top of the Processor PCA.

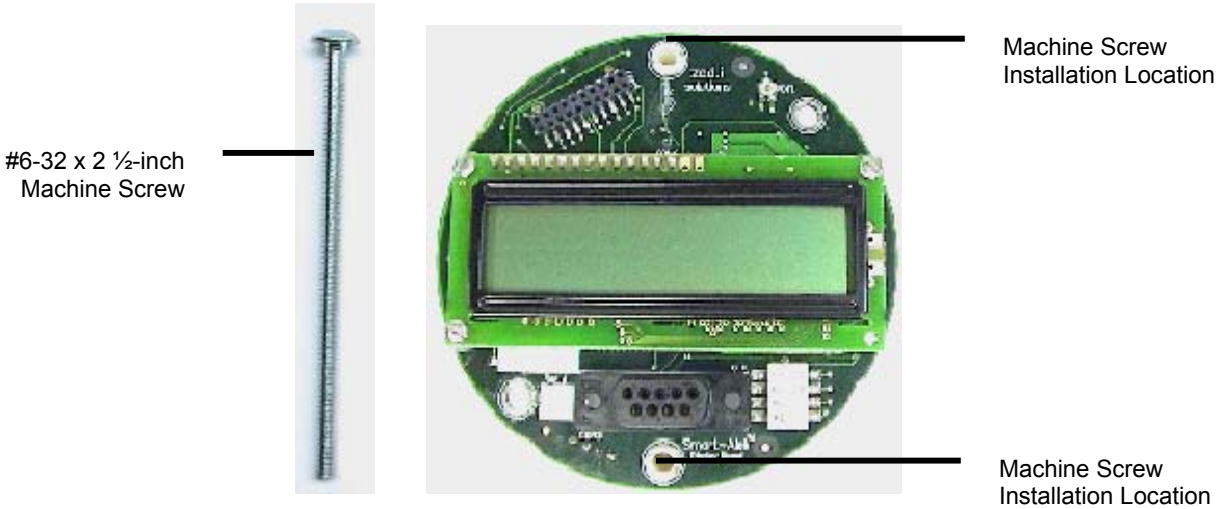
Make sure each board is aligned and oriented with the screw hole and spacer notches in the upper-right and lower-left corners of the PCAs. Refer to the following diagram.



Processor PCA

General Information on Smart-Alek V2 Board Installation

1. Insert the two **#6-32 x 2 ½-inch machine screws** through the **nylon spacers** and **stack of PCAs** at the locations shown in the following diagram and thread the screws into the two **steel standoffs** attached to the bottom of the CCA stack.



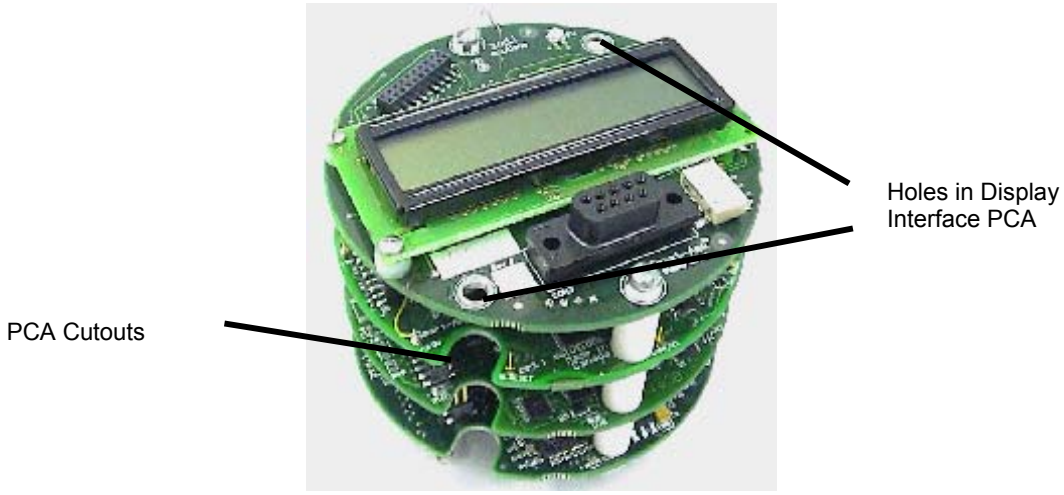
#6-32 x 2 ½-inch Machine Screw Installation

Note: Torque the machine screws to **12 in. lbs**.

Installing the CCA

To install the Complete Circuit Assembly (CCA):

1. Install the **CCA** onto the **Wiring PCA** by aligning the **standoffs** with the **cutouts** in the **bottom three PCAs** in the assembly and connecting the two **20x2 male headers** on the **bottom** of the **Analog PCA** (bottom PCA of the CCA) to the two corresponding **20x2 female headers** on the **top** of the **Wiring PCA**.



Holes and Cutouts that Align with Standoffs

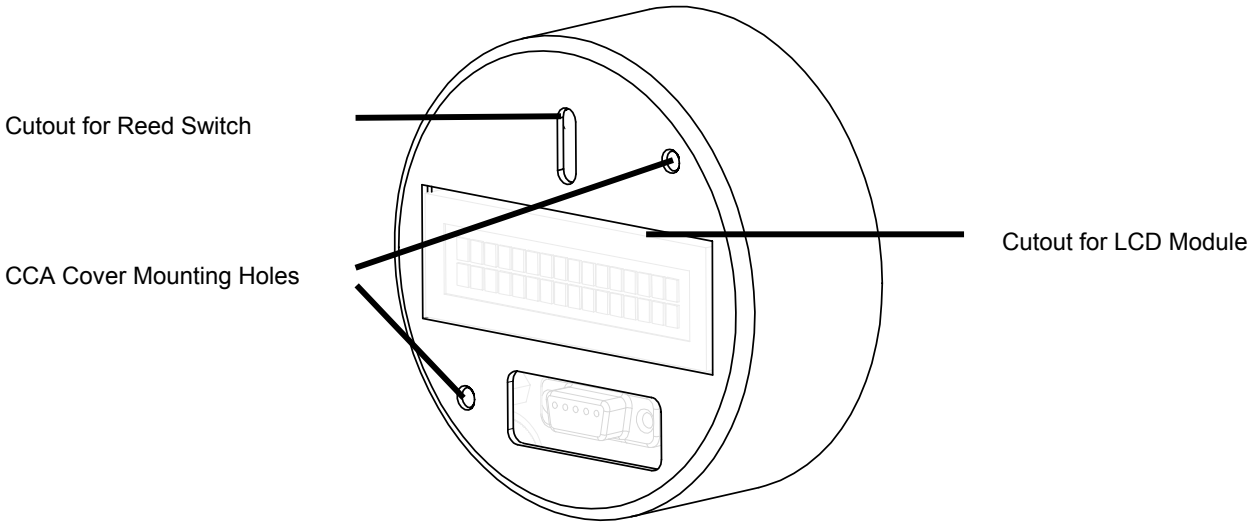
Note: Be sure the headers on the Wiring PCA connect to the headers on the CCA.

2. Insert the male end of each of the **two #8-32 x ½-inch M-F hex standoffs** through the holes in the **Display Interface PCA** and thread into the female end of the **2 11/16 -inch standoffs**. This holds the CCA in place by securing it to the standoffs.

Note: Torque the standoffs securing the CCA to 30 in-lbs.

3. Position the **CCA cover** over the installed CCA so that the CCA cover **mounting holes** align with the **standoffs** installed in the CCA and the **DB-9 connector** and the reed switch protrude through their appropriate **cutout** as shown below.

Note:	The CCA Cover may not fit over the CCA if the Printed Circuit Board (PCB) breakaway tabs have not been completely removed.

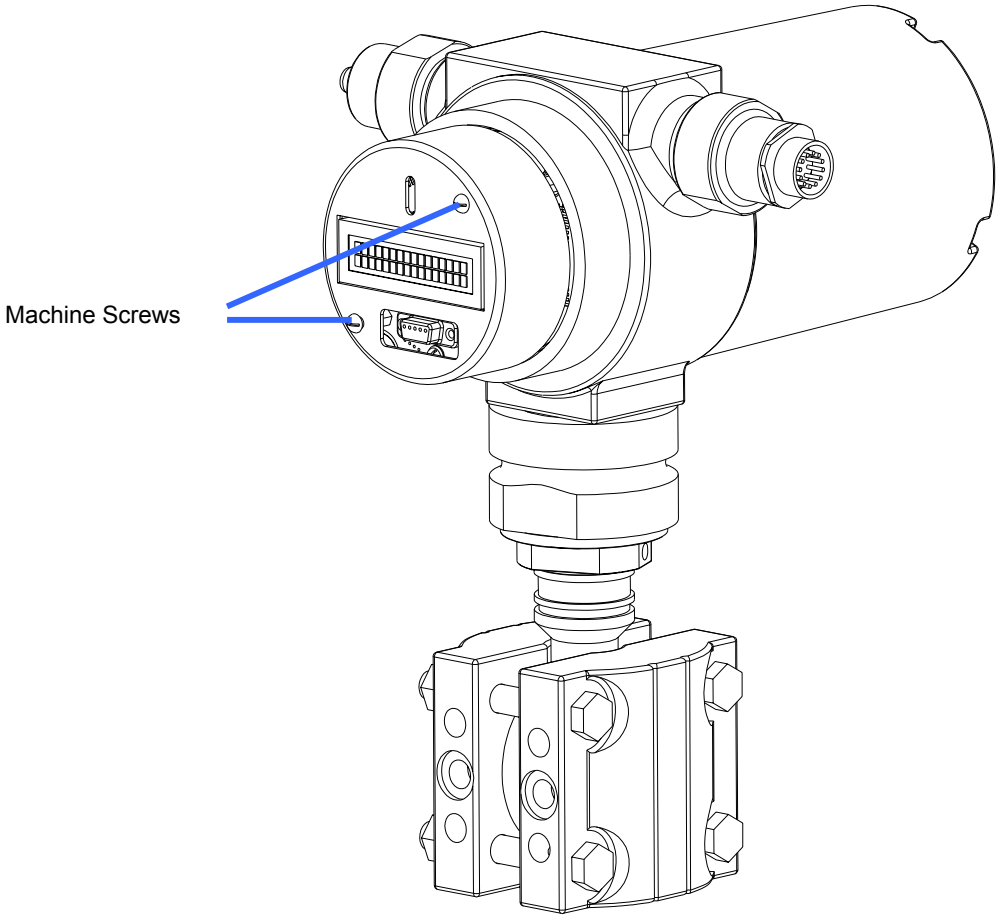


CCA Cover

CAUTION:	**<u>Take care not to damage the reed switch</u>** either when you position the CCA cover over it or if you have to manipulate the switch to make it protrude through its cutout.

4. Insert one **#8-32 x 3/8-inch machine screw** through each of the **CCA cover mounting holes** and thread the **screws** into the **female end** of the **½-inch steel hex standoffs.**

Note: Torque the machine screws to **30 in. lbs.** in the standoffs.



CCA Cover Installation