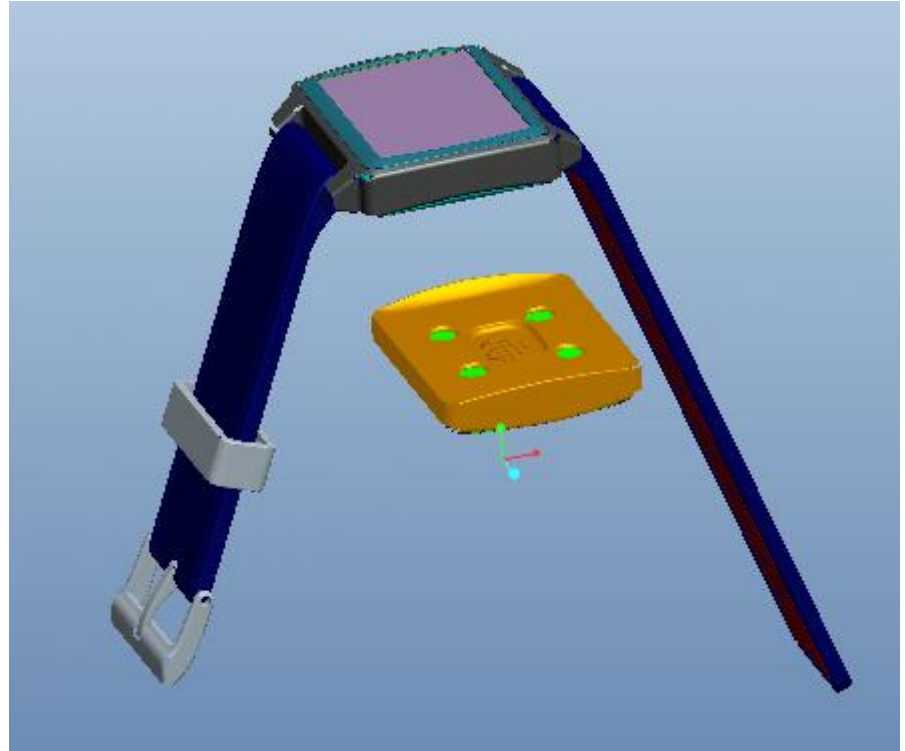
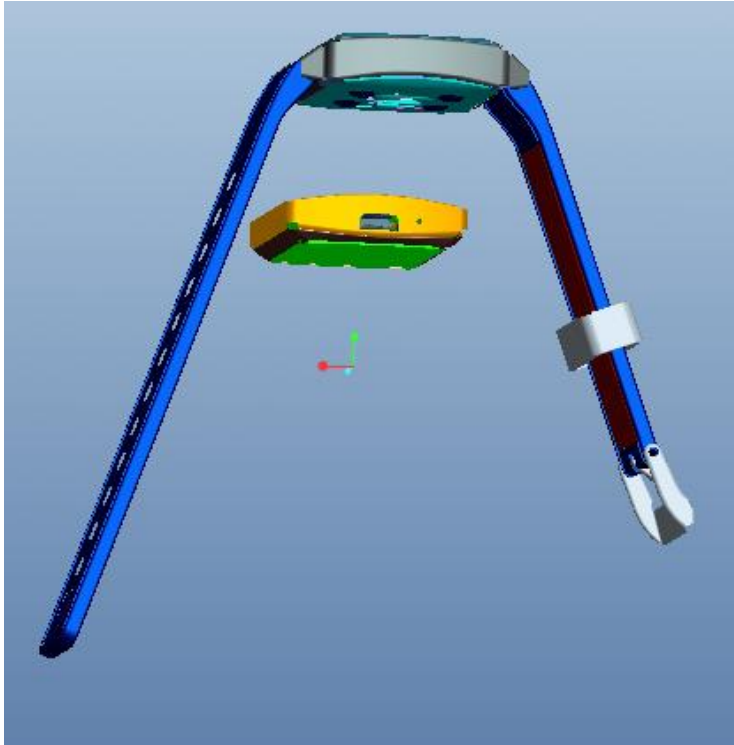


FLEXTRONICS X

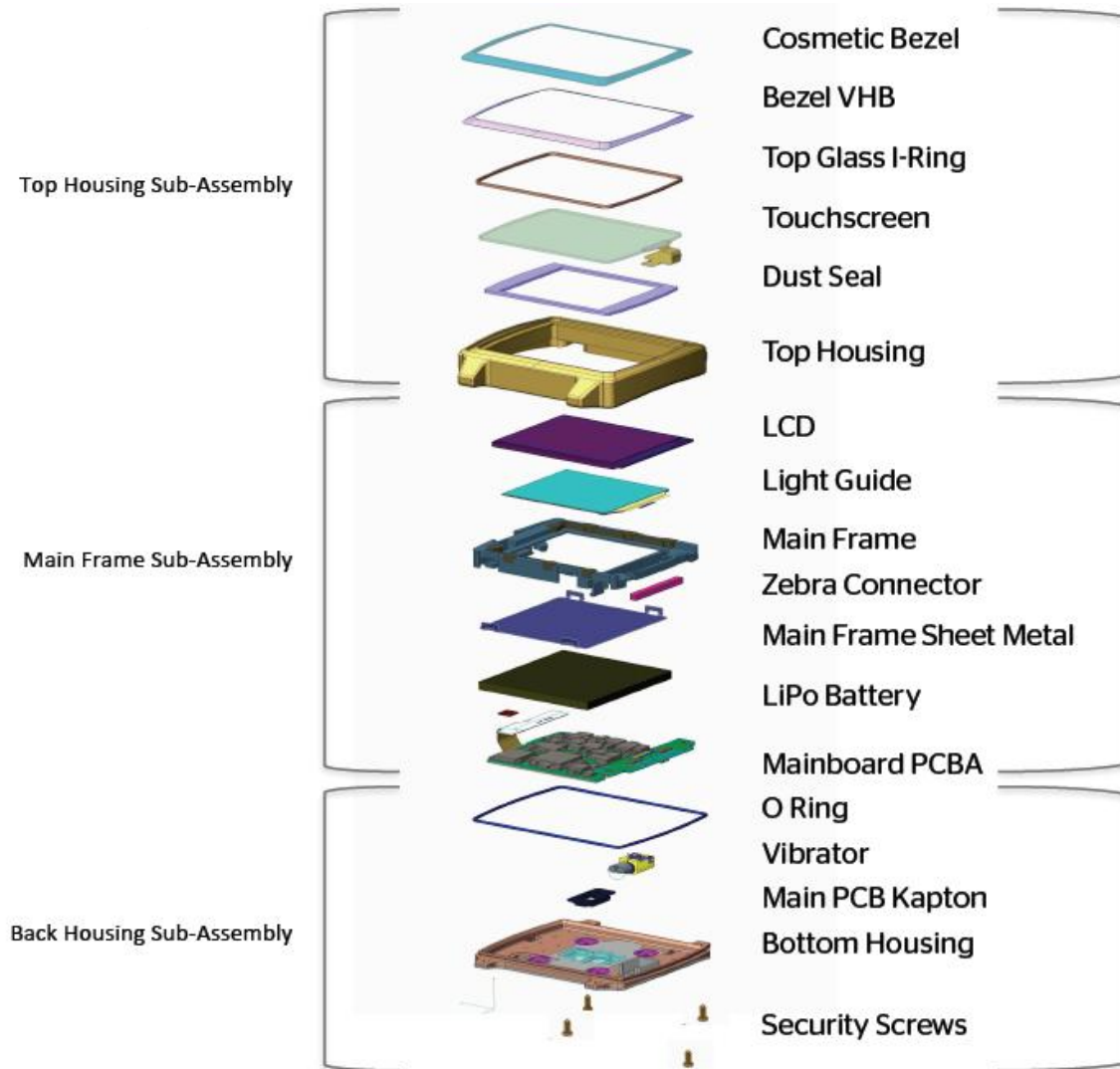


High Velocity Solutions
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Folsom Overview



Watch Overview

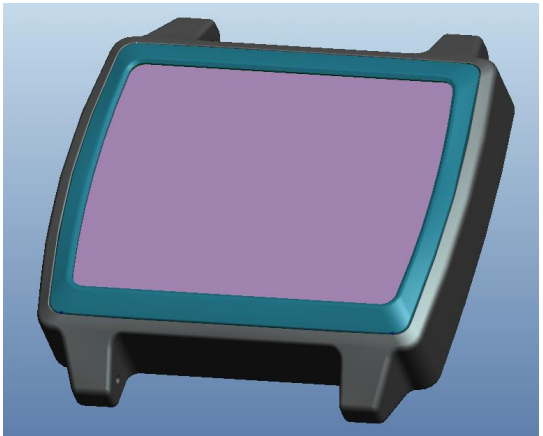
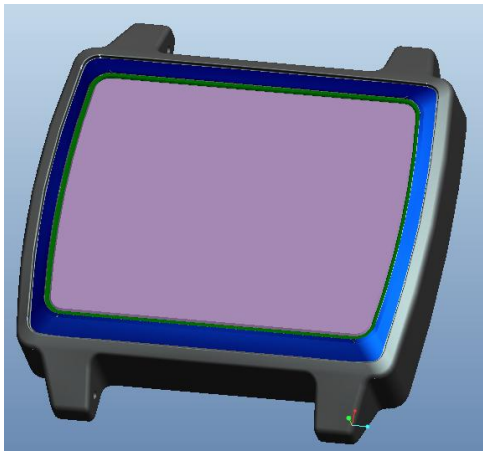
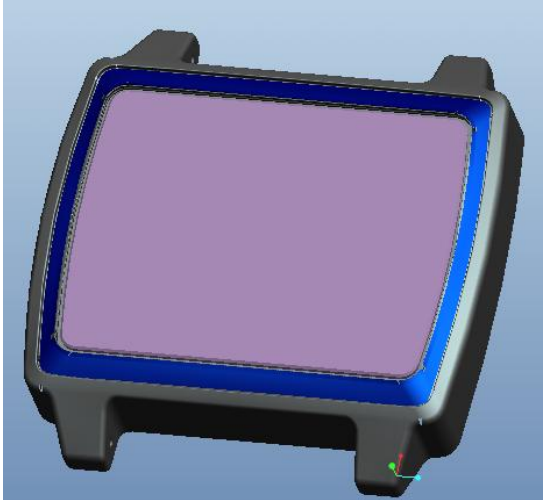
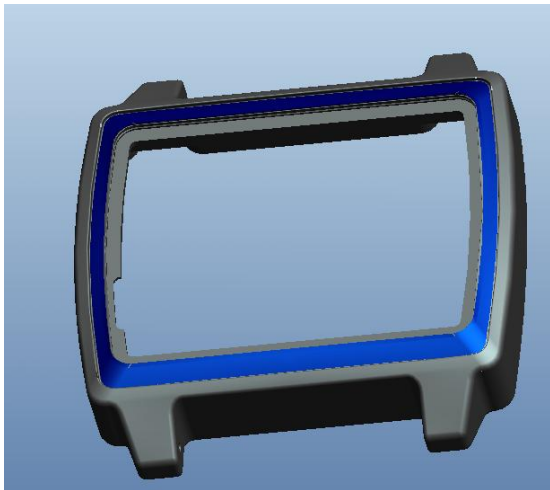


SA2- Install touch sensor on top housing

Process Flow

- 1 Place top housing on fixture
- 2 Stick bezel VHB on top housing
- 3 Install touch sensor on top housing
- 4 Install L-ring on top housing
- 5 Peel off the protect paper of VHB, then install cosmetic bezel on top housing
- 6 Pressure 30s'
- 7 Pass it to next station

Illustration



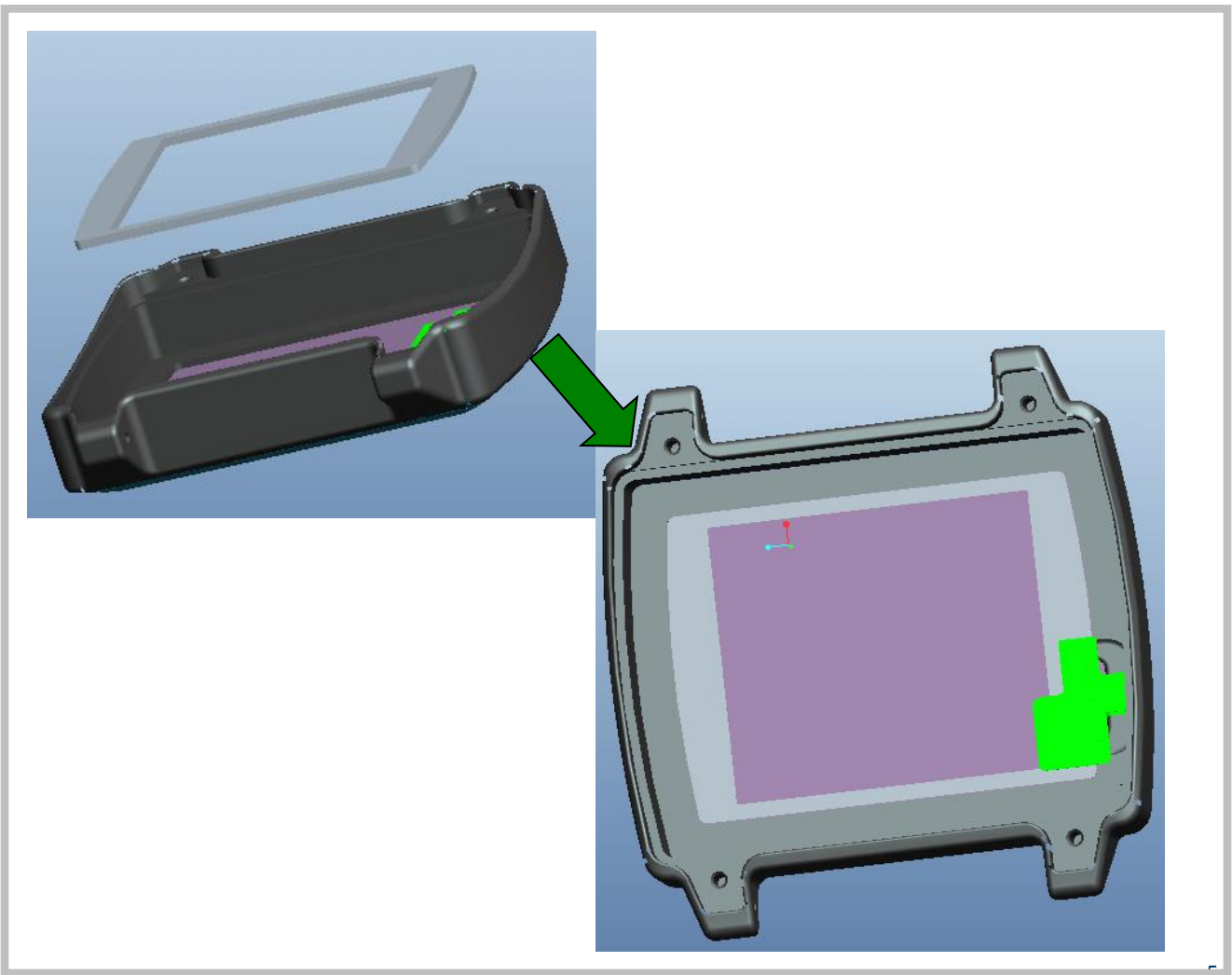
Item	Data
Estimated Cycle Time (S)	37
Expected Yield(%)	99.7%
Fixture& Tool	Cosmetic bezel pressure fixture

SA3- Stick dust seal on top housing

Process Flow

- 1 Place top housing on fixture
- 2 Stick a dust sealing on top housing
- 3 Pass it to next station

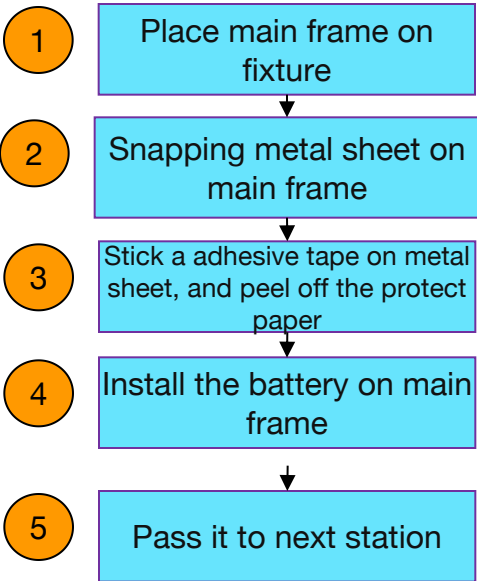
Illustration



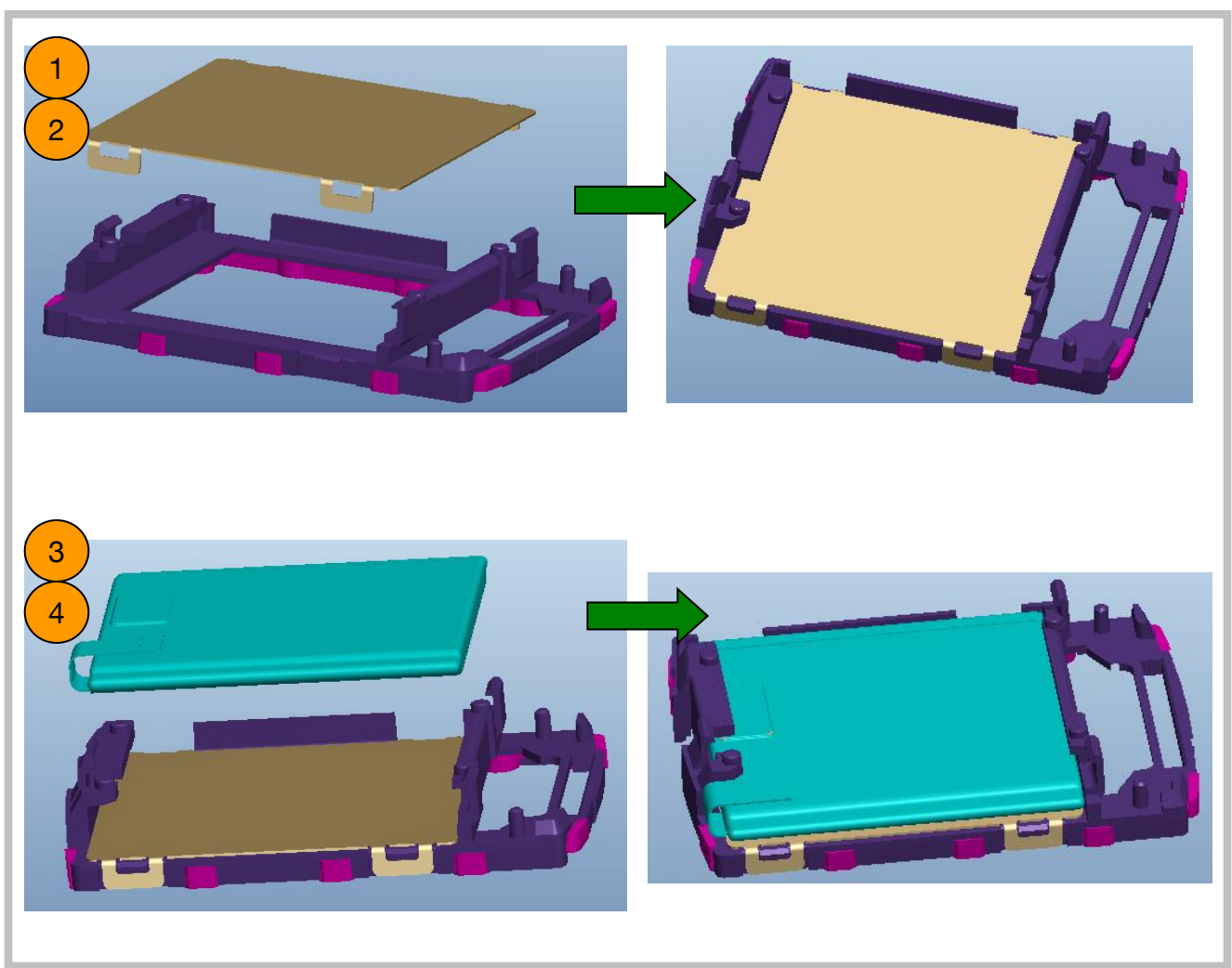
Item	Data
Expected Yield(%)	99.5%
Fixture& Tool	Sticking fixture

FA1- Install sheet metal & battery on main frame

Process Flow



Illustration

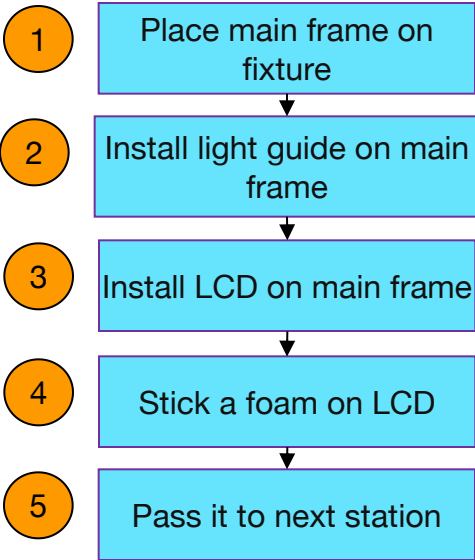


Item	Data
Expected Yield(%)	99.9%
Fixture& Tool	Battery installing fixture



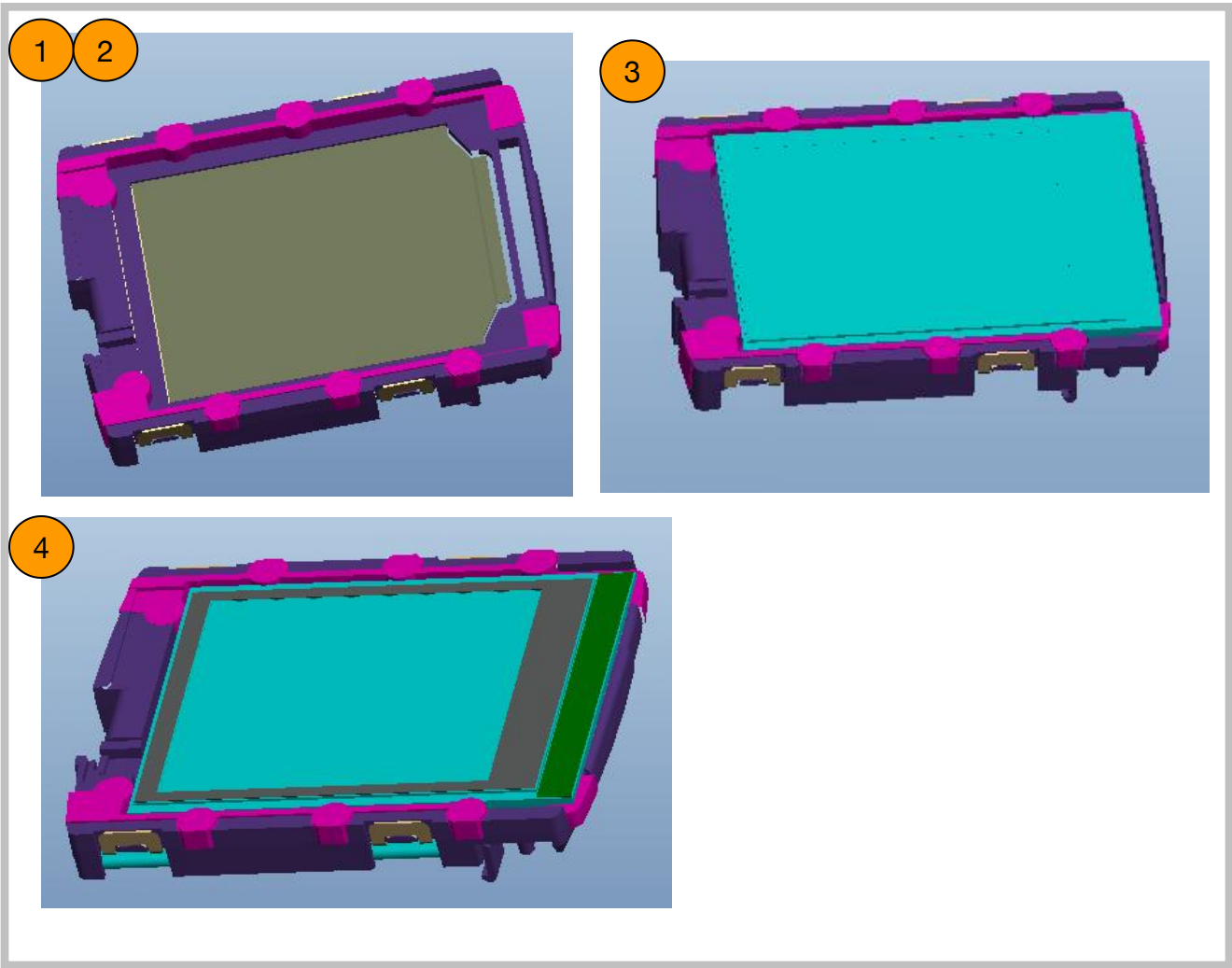
FA2- Install light guide and LCD on main frame

Process Flow

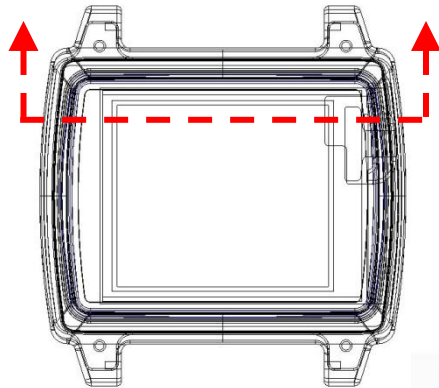


Item	Data
Expected Yield(%)	99.8%
Fixture& Tool	LCD installing fixture

Illustration

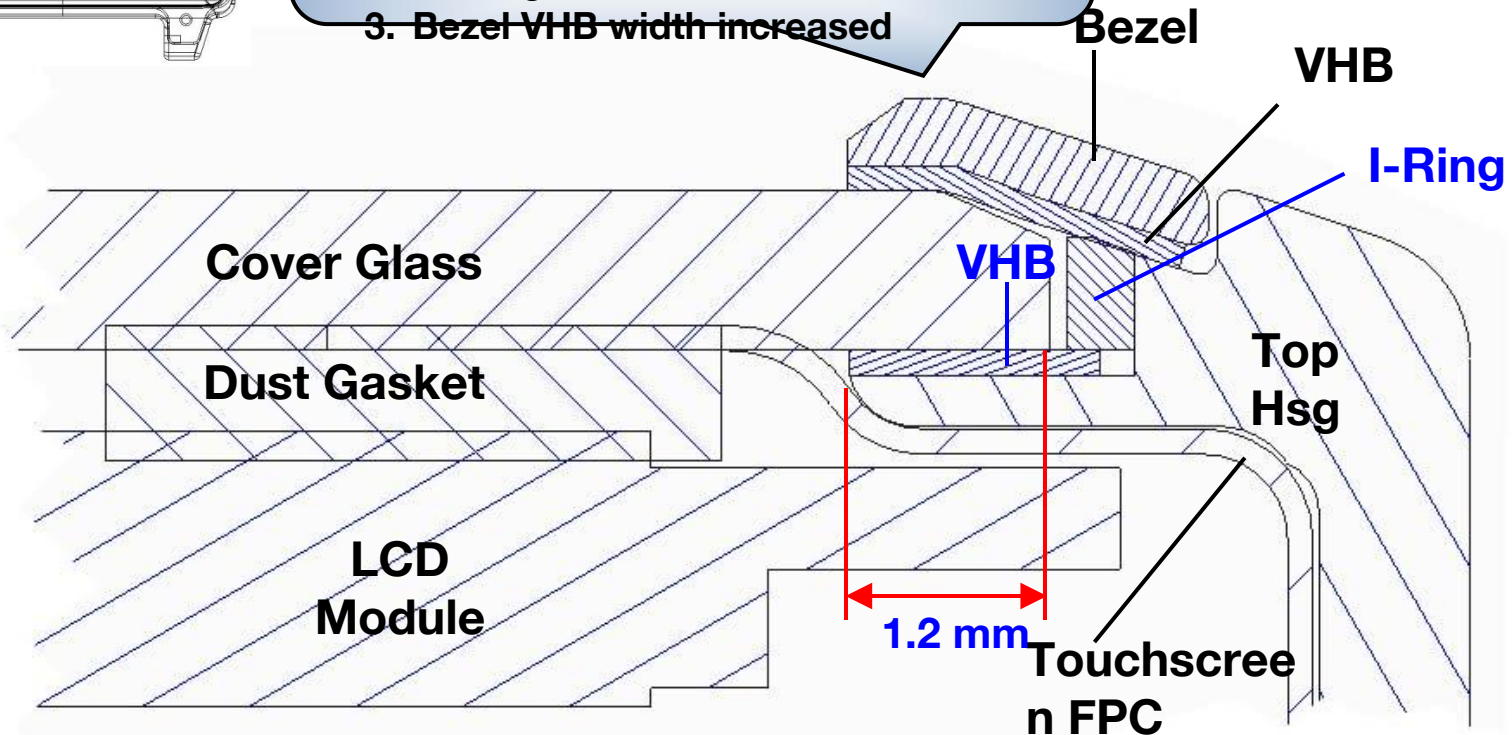


DFA PROPOSAL: sealing of Cover Glass to Top Hsg

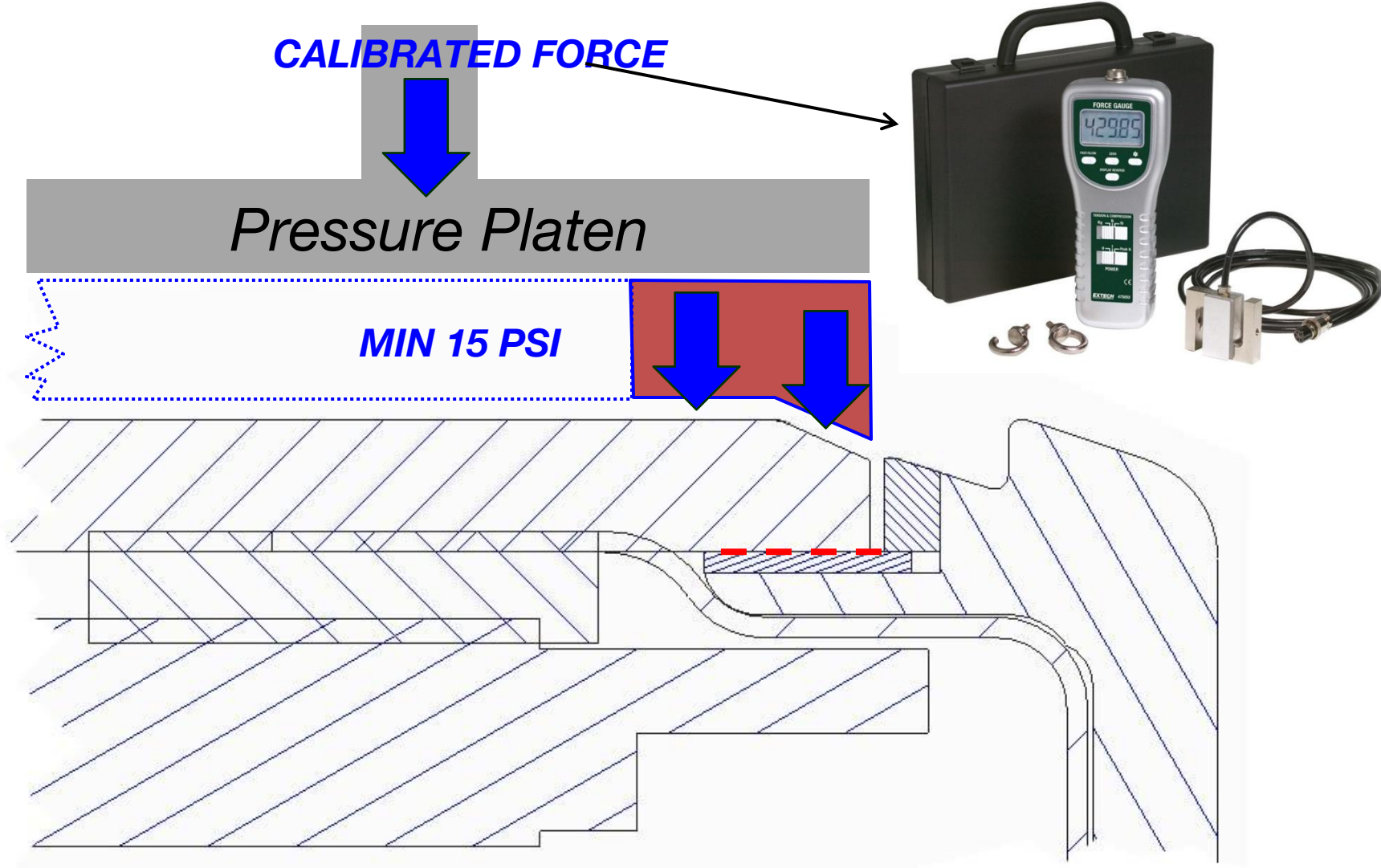


SOLUTION:

1. CG size increased to overlap with Top Hsg
2. Sealing VHB added under CG
3. Bezel VHB width increased



DFA PROPOSAL: How Flextronics ensures VHB seal?

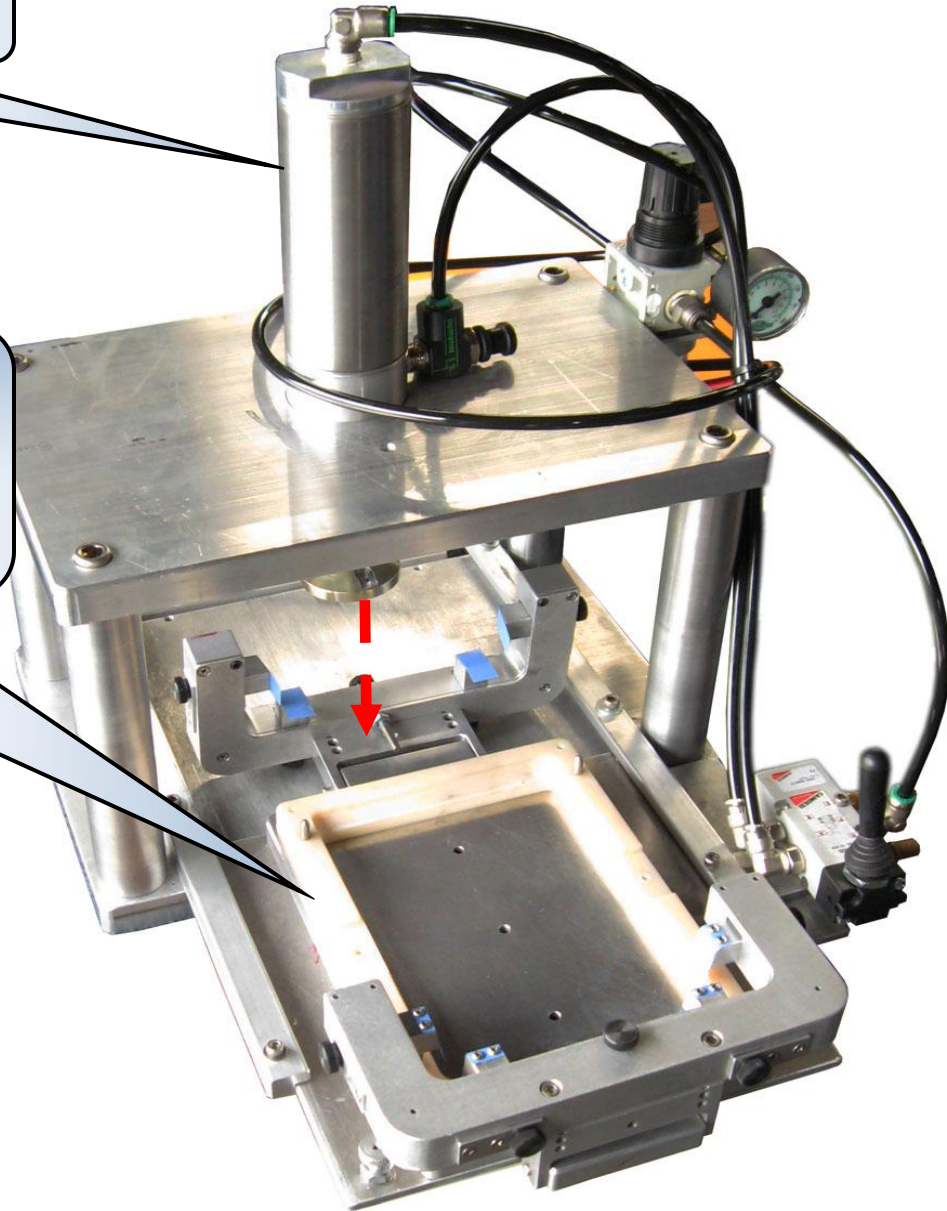


DFA PROPOSAL: How CG placed accurately to Hsg?

The fixture is calibrated so that exact required force bonds the VHB, without breaking glass.

1. Top Housing (with VHB) locates into fixture.
2. Then shims (blue) swing into position.
3. Cover glass gently lowers, guided by shims to determine gap.
4. Then pressure platen bonds VHB

Example fixture used on different project. Bonds Cover Glass to metal housing

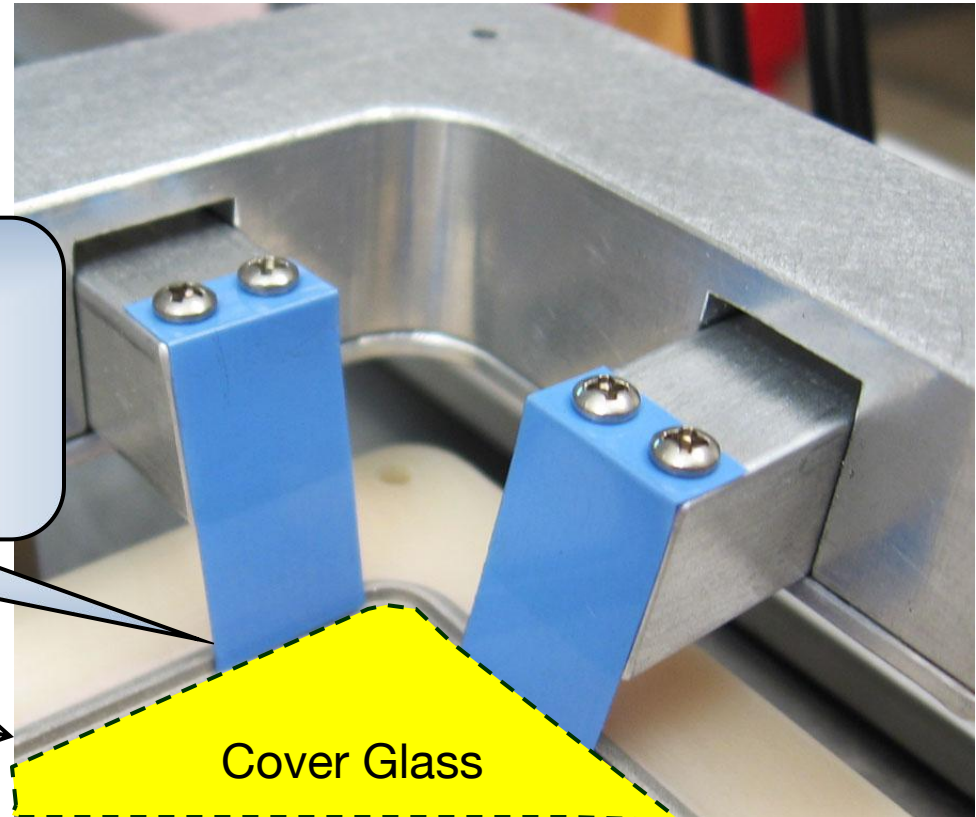


DFA PROPOSAL: How CG placed accurately to Hsg?

Tight-tolerance shims determine the gap from CG to Top Housing. Gaps (& shims) are typically 0.05 mm nominal

Shims are gently pulled out after adhesive has bonded between CG and Top Hsg+

Top Hsg would go here →

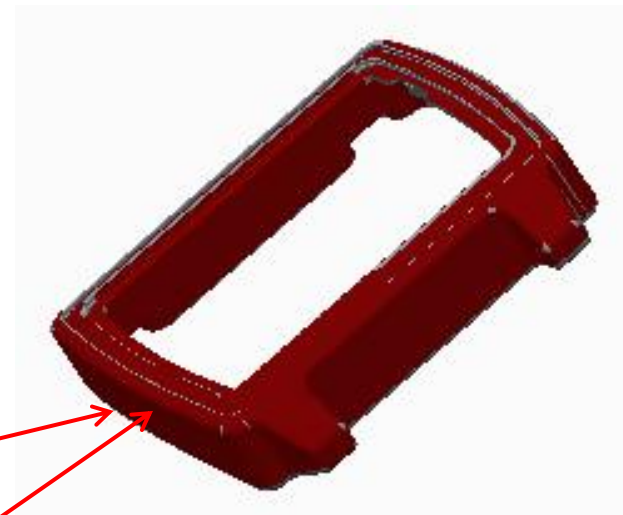
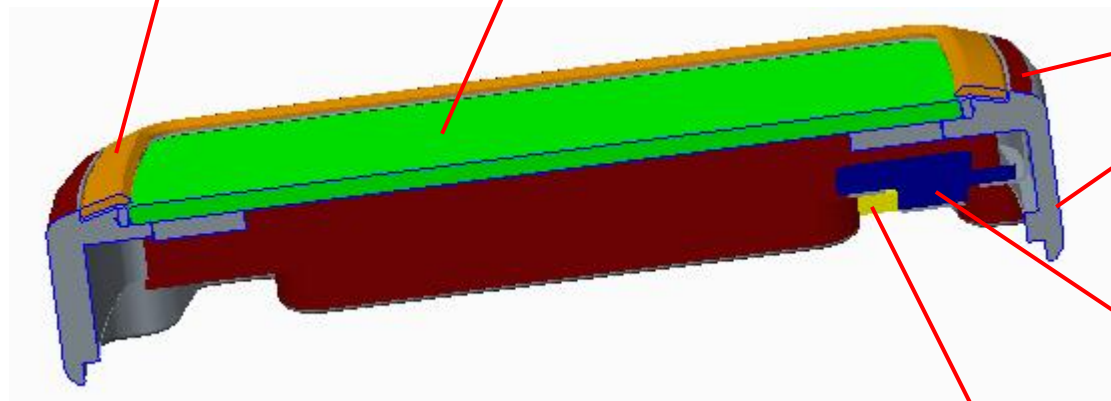




Bezel



Cover Glass



Top Housing

ITO

FPC