Top Down Assembly Modeling Refresher

- Assembly Features (Cut Extrude)
- In-Context Features
- External References
- Derived Sketch in an Assembly
- Smart Fasteners
- Inserting a New Component
- Virtual Components / External Components
- InPlace Mates
- Assembly Features (New and Existing Hole Series)
- Smart Components
Assembly Features

- *Insert, Assembly Features, Cut, Extrude*
- Cut Extrude Overall Length
In-Context Features

• *Edit Part, Edit Assembly*

• Boss on Tube1
  • Sketch Planes, Sketch Relations
  • External References
    • Update Holders ->, -> ?
    • Locking / Unlocking -> *
    • Breaking -> x
    • Removing
  • Feature References, Sketch Relations
Derived Sketch, Un-derive Sketch

• Insert, Derived Sketch
• Add feature to Tube3
Smart Fasteners

- *Insert, Smart Fasteners*
- Add fasteners to Tube2 to Tube1 flange
Inserting a New Component

- *Insert, Component, New*
- Sketch Planes, Sketch Relations
- Virtual Components / External Components
- New Hole Series, Smart Fasteners (specify End Component)
- InPlace Mates, Insert another instance, Smart Fasteners
Assembly Feature, Holes Series

- Another Instance of Endcap1 and Gasket
- *Insert, Assembly Feature, Hole, Hole Series, Use Existing Hole(s)*
Insert Smart Component

- Create Assembly of Components
- Tools, Make Smart Component
- Insert and mate Smart Component into assembly
- Right click on Smart Component, Insert Smart Features
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