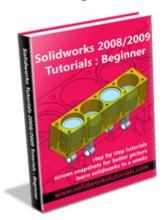
This Solidworks tutorial composes using the exact format and delivery as Solidworks 2008/2009
Tutorials: Beginner e-book.

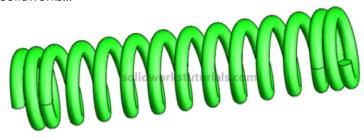


If you a beginner to Solidworks, I recommend you to get this e-book just for \$9.95 USD only



## **Solidworks Tutorial #4: How to create compression spring**

Spring is a common mechanical parts, there is compression, extension and torsion spring. Here is the basic design springs in Solidworks...





2. Click on **Top Plane** and click **Sketch**.



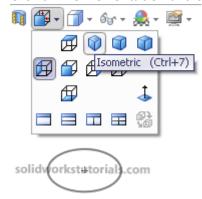
3. Click **Circle** , sketch a circle center at origin.



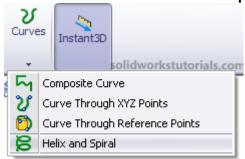
click on circle a dimension it to **0.5**".



4. Click on **View Orientation** and click on **Isometric**.



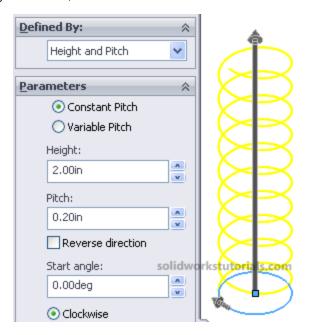
5. Click on Features>Curves>Helix and Spiral



and click on sketched circle as base diameter.



On its option set **Define By: Height and Pitch**, **Constant Pitch**, **Height: 2.0"**, **Pitch: 0.2"**, **Start Angle: 0**, **Clockwise** and

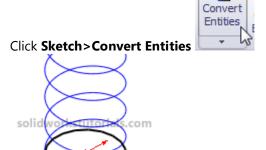


6. Click on Top Plane and click Sketch,



Open Helix/Spiral tree [+] and click Sketch1





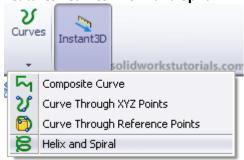


and click Exit Sketch.

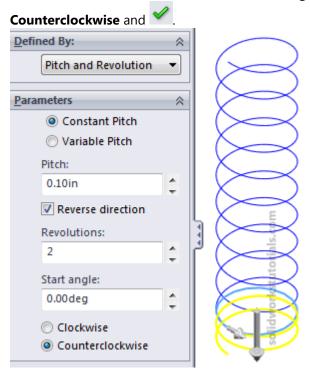


7. Click on Sketch2,

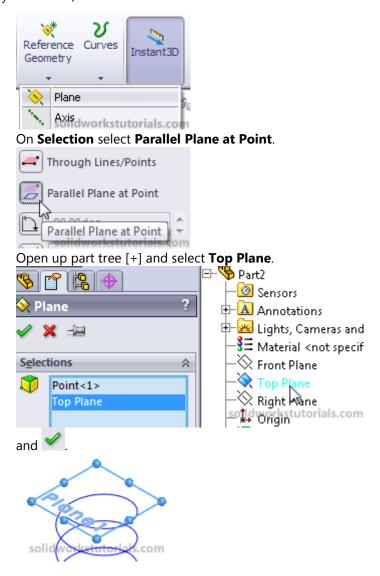
Features>Curves>Helix and Spiral



on its option set **Define By: Pitch and Revolution**, **Pitch: 0.1**", **Reverse direction**, **Revolution: 2**, **Start Angle: 0**,

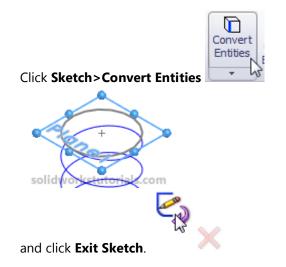


8. Click the endpoint of top curve and click **Features>Reference Geometry>Plane**.



9. Click on Plane1 and click Sketch,

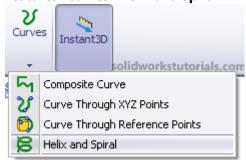








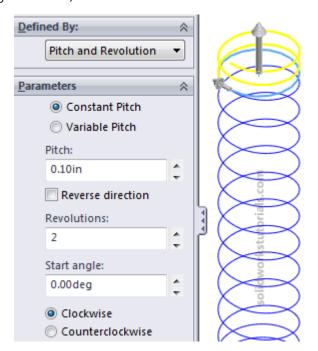
## Features>Curves>Helix and Spiral



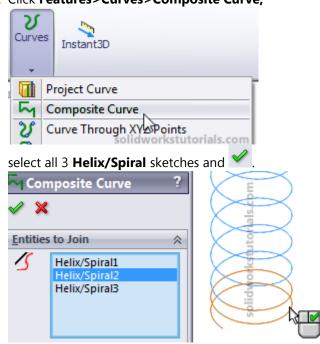
on its option set **Define By: Pitch and Revolution**, **Pitch:** 0.1", uncheck Reverse direction, Revolution: 2, Start

Angle: 0, Clockwise and





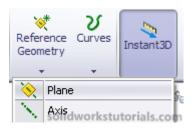
12. Click Features>Curves>Composite Curve,



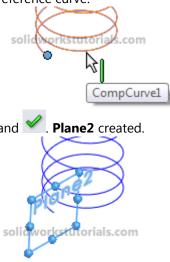
13. Click on spring bottom endpoint



Geometry>Plane.



14. The following steps are to show you how to create a plane Normal To spring endpoint. Click on **Composite Curve** as a reference curve.



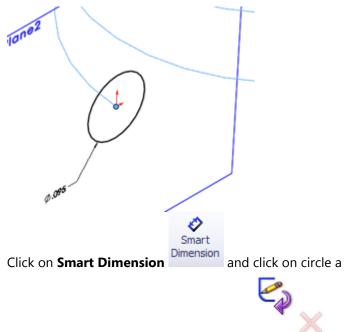
15. Click on **Plane2** and click **Sketch**.





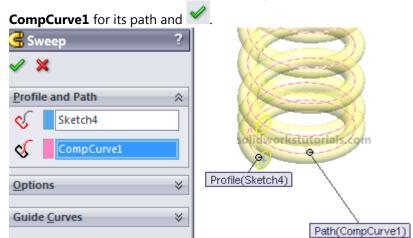


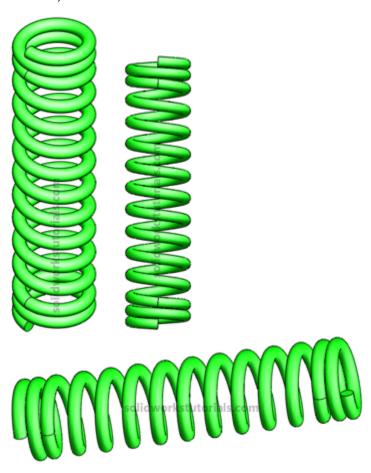
Click Circle and sketch a circle center at endpoint of Composite Curve,



dimension it to 0.095". Click Exit Sketch.

16. Click **Features>Swept Boss/Base** for Profile and Path, click **circle Sketch4** for its profile and click





17. Save the part as **Compression Spring** and you're done! and . Simple isn't it?

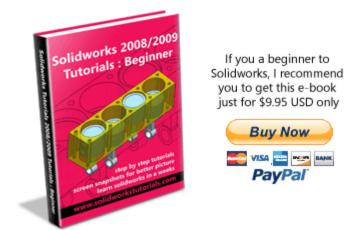
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