Solid Edge Fidget Spinner Steps - 02

* From the Application button select the New tab and choose [Assembly of Active Model](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:createassembly1c).
* Select the [Parts Library](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:index_assemble_parts:xid950491:xid287408:prtlib1d) from the fly-out menu and click on Bearing.par.
	+ Note if you click in the drag in the preview window you can orient the part close to what you will want it to be in the assembly
		- This makes creating relationships easier and more obvious.
* Drag Bearing.par into the graphics window.
	+ [FlashFit](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:xid961628) is the default assembly relationship type so simply select the center cylinder in the bearing and align with the center hole in the spinner
	+ Change the relationship type to [Center-Plane](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:center_plane1c) and be sure the option is set to “Double”.
		- First select the top and bottom planar faces of the bearing to find its center plane and then select the top and bottom planar faces of the spinner to align with its center plane.
		- Note the bearing extends equally on both sides of the spinner
* Notice the center hole in the spinner is much too large to hold the bearing. From the Inspect tab select the [Smart Measure](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:smrtmeas1d) command and select the outside edge of the bearing to gets its diameter. (22 mm)
* Using the Select tool, pick the face of the center hole in the spinner.
	+ Use the Smart Dimension value to change the 25 mm diameter to 22.4 mm diameter.
* From the Parts Library drag in the M8x14Lng-Screw.par.
	+ Select the cylinder on the screw and align with an outer hole in the spinner.
	+ Mate the bottom face of the screw head to the top face of the spinner.
* From the Parts Library drag in the M8 Nut.par.
	+ Select the hole in the nut and align with the screw cylinder.
	+ Mate the face of the nut to the bottom face of the spinner.
* Select both the screw and the nut from the PathFinder in the assembly and align the center of the steering wheel with the center of the screw.
	+ Choose the option to [Move-Copy](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:asmsteering_wheel1a) from the QuickBar and select the steering wheel plane to start the copy.
	+ Be sure the key-point filter is set to find centers and snap to the center of one of the remaining holes and click to accept.
		- In the [relationship options dialog](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:asmbyrelatopts) be sure to enable “Repair unsatisfied relationships” and “Replace to other components only (where possible)”. You may also check the option to remember these settings.
		- You will need to select the Spinner part for the relationships to reconnect to the new spinner hole.
	+ Repeat the same process to copy the screw and nut to the remaining hole.
* In order to put the spinner in motion we need to reorder the parts and change which part is [grounded](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:ground1h).
* In the PathFinder drag the Spinner.par below the Bearing.par.
* Select the Spinner.par and delete the [Ground relationship](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:ground1h) from the bottom pane of the PathFinder.
* Select the Bearing.par and add a Ground relationship from the Assembly collector on the home tab.
* Using the [Drag command](http://docs.plm.automation.siemens.com/data_services/resources/se/latest/se_help/en_US/selfPacedExt/xid1012449/index.html?goto=movprt1c.htm) with the rotate option, select the spinner part and the center axis of the center hole and while holding down the left mouse button drag the spinner around to show its motion.
* Select the command to add a [rotational motor](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:index_assemble_parts:xid950487:xid287399:xid287401:motor1c).
	+ Notice the Tool Tip video
	+ Select the Spinner part to add the motor to and the center axis to rotate about.
	+ The arrows will flip the direction of rotation.
	+ Click Finish to accept and note the motor is added to PathFinder.
* Select the [Simulate Motor](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:index_assemble_parts:xid950487:xid287399:xid287401:motor1c) command.
	+ Accept the Rotational 1 motor to simulate and default settings by clicking OK.
* Click Play on the timeline to put the Fidget Spinner Assembly in motion.
* Close out of motion simulation.
* From the Application button navigate to the Info tab to access the [File Properties](http://docs.plm.automation.siemens.com/tdoc/se/latest/se_help#uid:prop7d_v1).
	+ On the Summary tab add:
		- Title: Fidget Spinner Assembly
		- Subject: Toys
		- Author – your Name
		- Manager: your Manager
		- Company: your Company
	+ On the Project tab add:
		- Doc Number: FS-001-ASM
		- Revision: A
		- Project Name: Fidget Spinner
* Save the Assembly as “Fidget Spinner Assembly.asm”