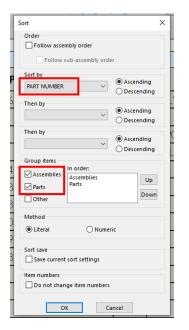
## Code currently sorts Bill of Materials on drawings by "Part number". Works well. (code shown below)

ITEM NO.		PART NUME	BER	REV	TITLE	QTY.
1	171828				EYE BRACKET (RH)	1
2	172	869			LOWER TRACK RAIL	1
3	172	870			LOWER TRACK RAIL	1
4	172	873			TRACK SPACER	4
5	172	886			VALVETRACK ASSY. (LH MANIFOLD)	1
6	172	893			UPPER LEFT TRACK RAIL	1
	172	894				1
8	A05	524			FLOW CONTROL 1/4" x 1/8" NPT	1
9	E06	.06			90 DEGREE FIBER OPTIC CABLE	1
10	HOC	007			1/4" LW	4
11	HOC	)27			BHCS #10-32 x 3/8" SS 18-8	1
12	H0028				BHCS #10-32 x 1/2" SS 18-8	6
13	H07	H0782			1/4"-20 x 2-1/4" HXCS	4

However, team want to start to sort the Bill of Material so that Sub-Assemblies are Listed first and then parts.

ITEM NO.	PART	NUMBER	REV	TITLE	QTY.
1	171828	~		EYE BRACKET (RH)	1
2	172869			LOWER TRACK RAIL	1
З	172870			LOWER TRACK RAIL	1
4	172873			TRACK SPACER	4
5	172886			VALVE TRACK ASSY. (LH MANIFOLD)	1
6	172893			UPPER LEFT TRACK RAIL	1
7	172894			MANIFOLD (RH)	1
8	A0524	they want to list this	FLOW CONTROL 1/4" x 1/8" NPT	1	
9	E0606	Sub-assy f	Sub-assy first	90 DEGREE FIBER OPTIC CABLE	1
10	H0007			1/4" LW	4
11	H0027			BHCS #10-32 x 3/8" SS 18-8	1
12	H0028			BHCS #10-32 x 1/2" SS 18-8	6
13	H0782			1/4"-20 x 2-1/4" HXCS	4

## SolidWorks allows you to do it like this:



This would be the desired result.

	₽	А	В	С	D	E
	1	ITEM NO.	PART NUMBER	REV	TITLE	QTY.
+	2	1	172886		VALVETRACK ASSY. (LH MANIFOLD)	1
	3	2	171828		eye bracket (RH)	1
	4	3	172869		LOWER TRACK RAIL	1
	5	4	172870		LOWER TRACK RAIL	1
	6	5	172873		TRACK SPACER	4
	7	6	172893		UPPER LEFT TRACK RAIL	1
4	8	7	172894		MANIFOLD (RH)	1
	9	8	A0524		FLOW CONTROL 1/4" x 1/8" NPT	1
	10	9	E0606		90 DEGREE FIBER OPTIC CABLE	1
	11	10	H0007		1/4" LW	4
	12	11	H0027		BHCS #10-32 x 3/8" SS 18-8	1
	13	12	H0028		BHCS #10-32 x 1/2" SS 18-8	6
	14	13	H0782		1/4"-20 x 2-1/4" HXCS	4

I have not successfully been able to add that feature in the code. It would be great is code could be modified to create this result.

I added this to the code, but it didn't change the results.

```
swSortData.Ascending(0) = True ' Sort in ascending order
' Group rows by assemblies and parts
bWantGrp = True
If bWantGrp Then
    sortArray(0) = swBomTableSortItemGroup_e.swBomTableSortItemGroup_Assemblies
    sortArray(1) = swBomTableSortItemGroup_e.swBomTableSortItemGroup_Parts
    sortArray(2) = swBomTableSortItemGroup_e.swBomTableSortItemGroup_None ' No further grouping
    swSortData.ItemGroups = sortArray
End If
' Allow re-numbering of items after sorting
```

---- Here is the code----

Dim swApp As SldWorks.SldWorks

Dim swModel As SldWorks.ModelDoc2

Dim swDraw As SldWorks.DrawingDoc

Dim swBomTable As SldWorks.BomTableAnnotation Dim swBomFeat As SldWorks.BomFeature Dim swSortData As SldWorks.BomTableSortData Dim swSelMgr As SldWorks.SelectionMgr Dim swFeat As SldWorks.Feature Dim vTables As Variant Dim boolstatus As Boolean Dim sortArray(2) As Integer Dim bWantGrp As Boolean

## Sub main()

' Initialize SolidWorks application and active document Set swApp = Application.SldWorks Set swModel = swApp.ActiveDoc Set swDraw = swModel Set swSelMgr = swModel.SelectionManager

Set swFeat = swModel.FirstFeature

'Toggle document property to set Top-level BOMS to 1 configuration

boolstatus = swModel.Extension.SetUserPreferenceToggle(swUserPreferenceToggle\_e.swOneConfigOnlyTopLevelBom, 0, True)

' Loop through features to find BOM feature

Do While Not swFeat Is Nothing

If swFeat.GetTypeName = "BomFeat" Then

swFeat.Select False

Set swBomFeat = swFeat.GetSpecificFeature2

vTables = swBomFeat.GetTableAnnotations

Set swBomTable = vTables(0) ' Get the first BOM table annotation

Exit Do ' Exit once the BOM is found

End If

Set swFeat = swFeat.GetNextFeature

Loop

' Get BOM sorting data

Set swSortData = swBomTable.GetBomTableSortData

' Specify the literal sort method

swSortData.SortMethod = swBomTableSortMethod\_Literal

swSortData.ColumnIndex(0) = 1 ' Sort by the second column (index 1)

swSortData.Ascending(0) = True ' Sort in ascending order

' Group rows by assemblies and parts

bWantGrp = True

If bWantGrp Then

sortArray(0) = swBomTableSortItemGroup\_e.swBomTableSortItemGroup\_Assemblies

sortArray(1) = swBomTableSortItemGroup\_e.swBomTableSortItemGroup\_Parts

sortArray(2) = swBomTableSortItemGroup\_e.swBomTableSortItemGroup\_None ' No further grouping

swSortData.ItemGroups = sortArray

End If

'Allow re-numbering of items after sorting

swSortData.DoNotChangeItemNumber = False

' Apply the sorting to the BOM

boolstatus = swBomTable.Sort(swSortData)

' Clear selections

swModel.ClearSelection2 True

End Sub