

Appendix

F

Programming Problem 27

Use the program that created a Bill of Material from World Class CAD Challenge 4-16, and adapt the code by adding a subroutine, which will place the Part Number, Description, Remarks and Quantity (QTY) in the table. Our code will automatically identify entities in the assembly that have the organization's part number by using to code to select the blocks or externally referenced components. We will count the entities and reference any other data for the description or remarks by associating the part number to an external file. The finished Bill of Material will appear in the drawing similar Figure F.1.

BILL OF MATERIAL				
ITEMS	PART NUMBER	DESCRIPTION	REMARKS	QTY.
1	A124056	Bracket		1
2	B230451	Screw, Hex Hd, 1/4-20x1.0		3
3	D230395	Lockwasher, 1/4		3
4	D230223	Flatwasher, 1/4		3
5	D230174	Nut, Hex 1/4-20		3

Figure F.1 – The Automatic Bill of Material

*** World Class CAD Challenge 04-27* - Within two hours, create a new AutoCAD file where you display the regular Bill of Material information, with the Part Number, Description, Remarks and Quantity (QTY) fields filled. Save the code as autobom.lsp.**

Send your copy of your code for verification to the authors of these problems to have your name and location posted. See the web site for instructions at:

www.worldclasscad.com