



ITEM	QTY	PART NUMBER	TITLE
1	2	SM-TM1	Spindle Mount
2	4	SM-H11	Insertion Nut
3	4	SM-H07	M5 x 10mm SHCS
4	8	SM-H03	M5 Flat Washer
5	2	SM-TM2	Spindle Strap
6	4	SM-H09	M5 x 55mm SHCS
7	8	SM-H02	3/4" Nylon Spacer
8	1	SM-TM3	Rotary Tool

**OPEN HARDWARE**  
Attribution-ShareAlike 3.0  
Unported  
(CC BY-SA 3.0)

**TOLERANCES**  
(EXCEPT AS NOTED)  
BETWEEN  
FINISHED SURFACES

FRACTIONAL:  $\pm 1/64"$

DECIMAL:  $\pm .010"$

DETAIL DIMENSIONS:  $\pm 1/16"$

shapeoko

DESIGNED BY:  
ERF

DETAILED BY:  
ERF

DATE:  
6/5/2012

TITLE

Z Axis Spindle Assembly

SIZE  
B

DRAWING NUMBER  
SM-ZA03

SCALE

SHEET 1 OF 1