

Working in parallel with a partner, you'll be asked to fabricate two "widgets" from steel. You'll be using powered and hand tools. Before starting the project, you need to read the safety instructions for each of the powered tools, and (at a minimum) peruse the operator's manual for those tools sufficient to turn them on and operate them.

In the MakerSpace web site, open the [Safety and Manuals](#) tab and **read** the following sets of safety instructions:



Open and peruse the highlights of each of the manuals for the tools you'll be using. Find out how to turn them on (if powered) and operate each one.

Operator's Manual CRAFTSMAN®

18"
3 Speed
BAND SAW

Model No.
351.243981

CAUTION: Read and follow
all Safety Rules and Operating
Instructions before First Use
of this Product.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

8662 01 D08 (04/10/07)

SAFETY

ASSEMBLY

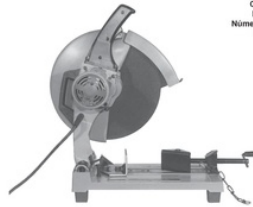
OPERATION

MAINTENANCE

PARTS LIST



OPERATOR'S MANUAL
MANUEL de L'UTILISATEUR
MANUAL del OPERADOR

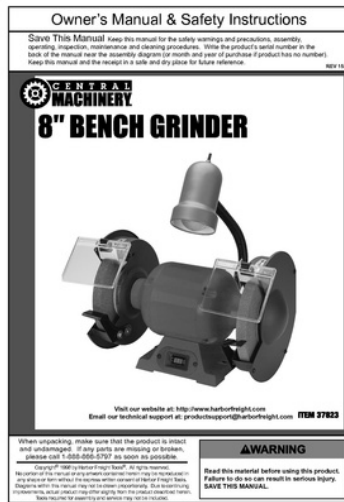


Catalog No.
No de Cat.
Número de Catálogo
6176-20

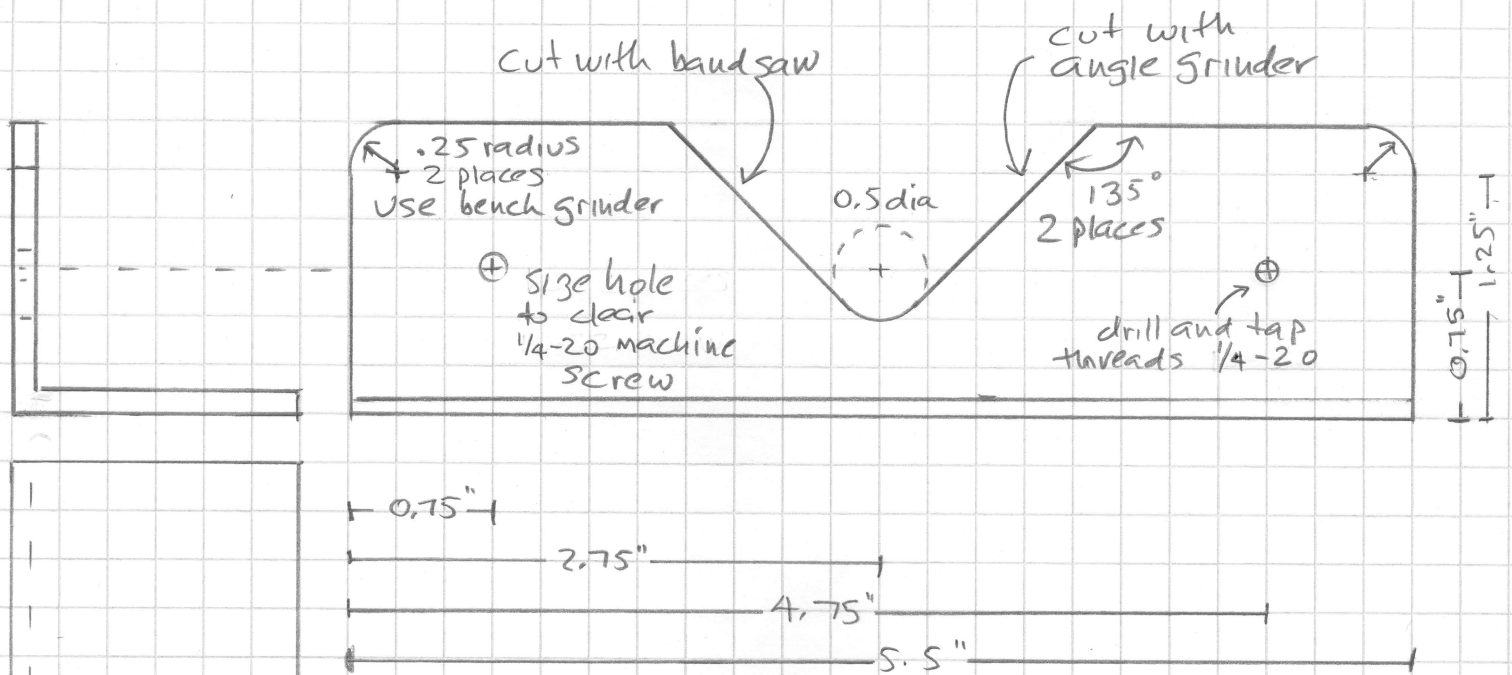
HEAVY-DUTY 14" ABRASIVE CUT-OFF MACHINE
EXTRA ROBUSTE TRONÇONNEUSE 35,6 cm À DISQUE ABRASIF
SIERRA TRONZADORA ABRASIVA DE 35,6 cm, HEAVY DUTY

TO REDUCE THE RISK OF INJURY, USER MUST READ AND UNDERSTAND OPERATOR'S MANUAL.
AVANT DE RÉDUIRE LE RISQUE DE BLESSURES, L'UTILISATEUR DOIT LIRE ET BIEN COMPRENDRE LE
MANUEL DE L'UTILISATEUR.
PARA REDUCIR EL RIESGO DE LESIONES, EL USUARIO DEBE LEER Y ENTENDER EL MANUAL DEL
OPERADOR.

Downloaded from www.ManualsLib.com search results page



You'll need to "tap" a threaded hole in the angle iron on the plans shown on the next page. If you've never done this, look at <http://makezine.com/2017/03/16/tapping-and-threading/> for guidance. Also, be sure to research the correct hole size to drill when tapping for a 1/4 - 20 threaded hole in steel.



Surface finish: Sandblast

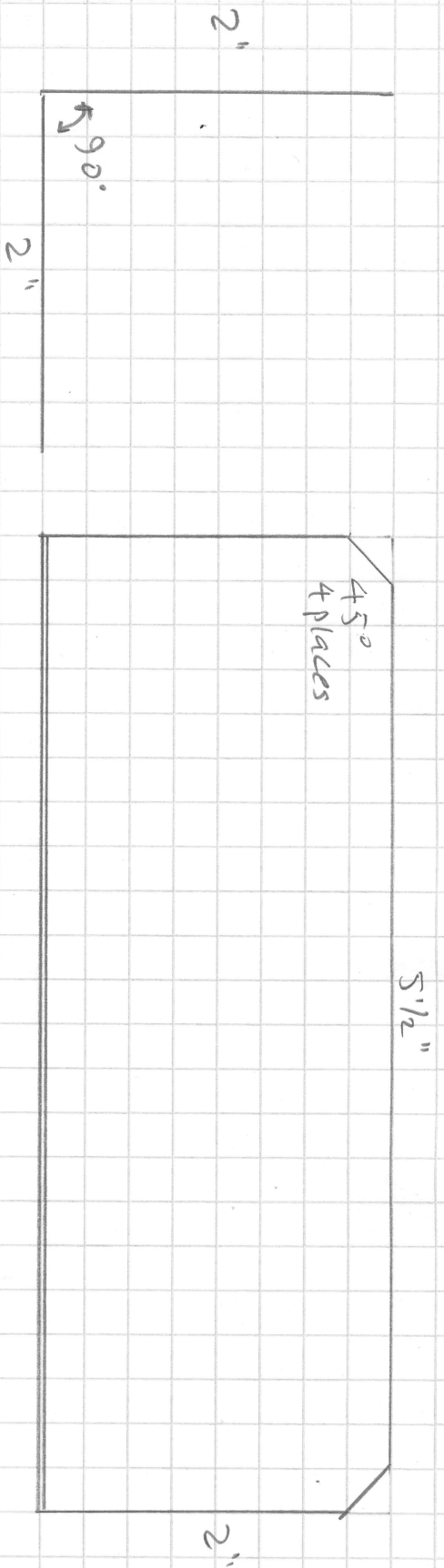
Material: $1\frac{1}{2}$ " \times $\frac{1}{8}$ " steel angle iron
cut to $5\frac{1}{2}$ " long with Milwaukee chop saw

tools used:

chop saw to cut to length
band saw for one diagonal
angle grinder for other diagonal
drill press for 3 holes (precision)
bench grinder for radius corners
abrasive blast cabinet to finish
tap set for threaded hole

Metal 2 badge (rev 1/1/2018)
Widget #1

Qty: 1 per person
work in groups of 2
Scale 1:1



Surface finish: none
Material: 30 SS galvanized steel
cut to size on shear
bend with brake

tools used: shear
brake
tin snips

Metal 2 badge (rev 11/12/2018)
Widget #2
Qty: 1 per person
Work in Groups of 2
Scale 1:1