

# Sharpening Templates

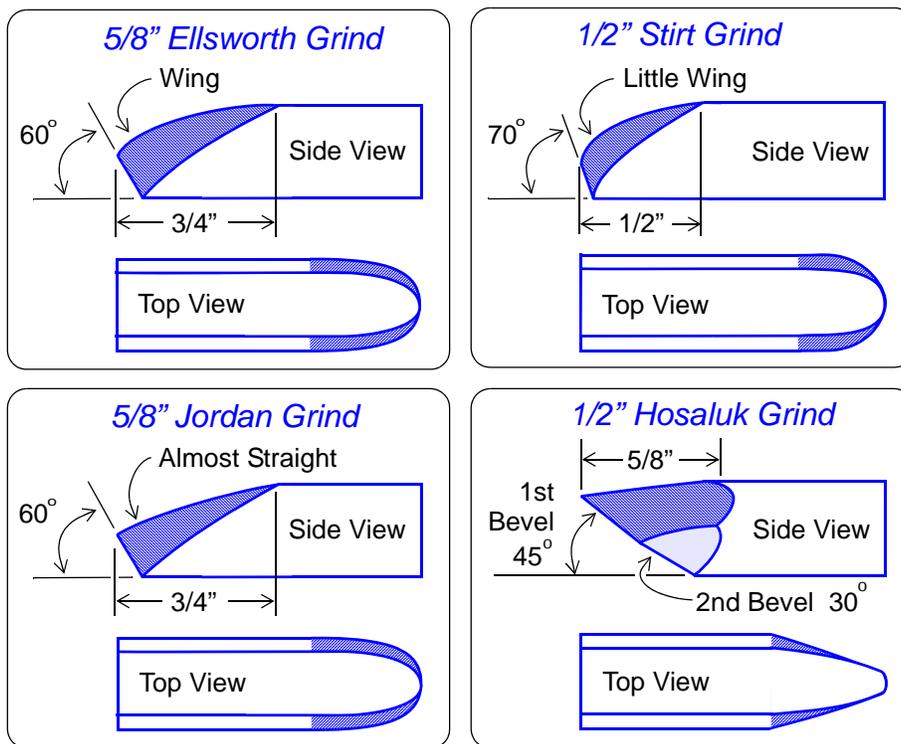
by Carl Ford, 7/16/2009

Updated 2/12/2015: Added Jordan and Stirt grinds to existing templates. Added 2 intro pages.

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## Grinds



## Use Ellsworth Templates for Jordan and Stirt Grinds

I use the same sharpening templates for Ellsworth, Jordan and Stirt grinds.

### **Ellsworth & Jordan Grinds:**

You extend the tip of the gouge out of grinding jig the same amount (i.e. 2", etc) for Ellsworth and Jordan grinds. You create the flatter Jordan grind by grinding off (down) the wing on a Ellsworth grind. See above drawing.

*Note: Many people who think they have an "Ellsworth" grind really have a "Jordan" grind. This is because the wing on a properly sharpened Ellsworth grind works great in green wood. But is, way to aggressive in dry wood. People often try to incorrectly use an Ellsworth grind in dry wood when they do the 2nd turning on a twice turned bowl. They find it way to aggressive. Thus they grind off (down) the wing and end up with a Jordan grind. Or, something that is almost a Jordan grind.*

### **Stirt Grind**

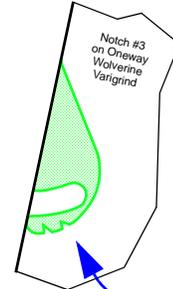
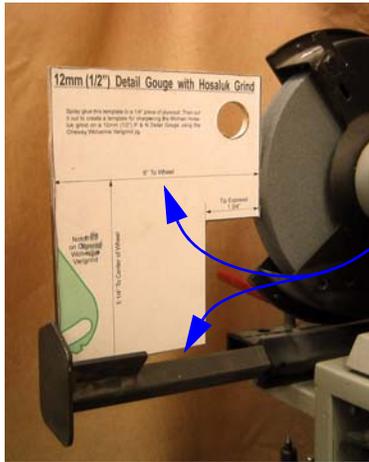
The front bevel angle is 60 degrees for Ellsworth grind and a steeper 70 degrees for Stirt grind. The steeper angle is created by extending the tip of the gouge out of the grinding jig less for Stirt grind (if 2" for Ellsworth then 1-3/8" for Stirt). The wing is also smaller on Stirt grind. Stirt wing = 1/2 way between Ellsworth & Jordan.

Eraser

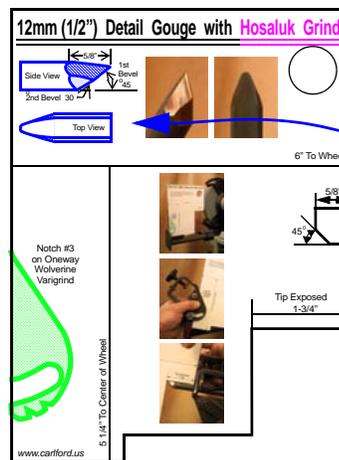
Chalk

## How to Use

1. Adjust the Wolverine Sharpening Jig Arm to be correct distance from grinding wheel.



2. Adjust the angle of Wolverine Varigrind Jig. Hold it up to the template with the arm flat against the template, loosen the thumb nut, and then adjust the angle until it matches the green outline on the template.
3. Adjust the distance the tip of the gouge sticks out of the Wolverine Varigrind Jig.



4. Grind the shape shown on the template.

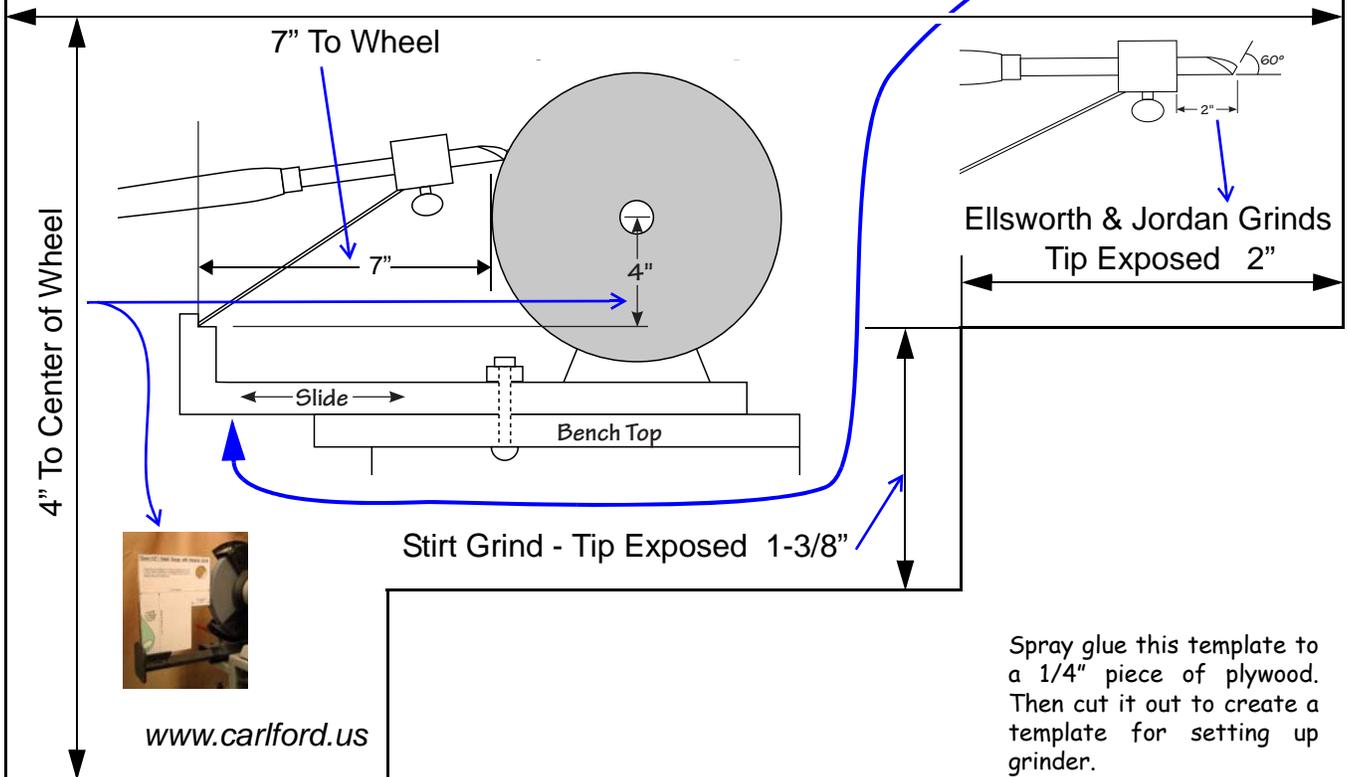
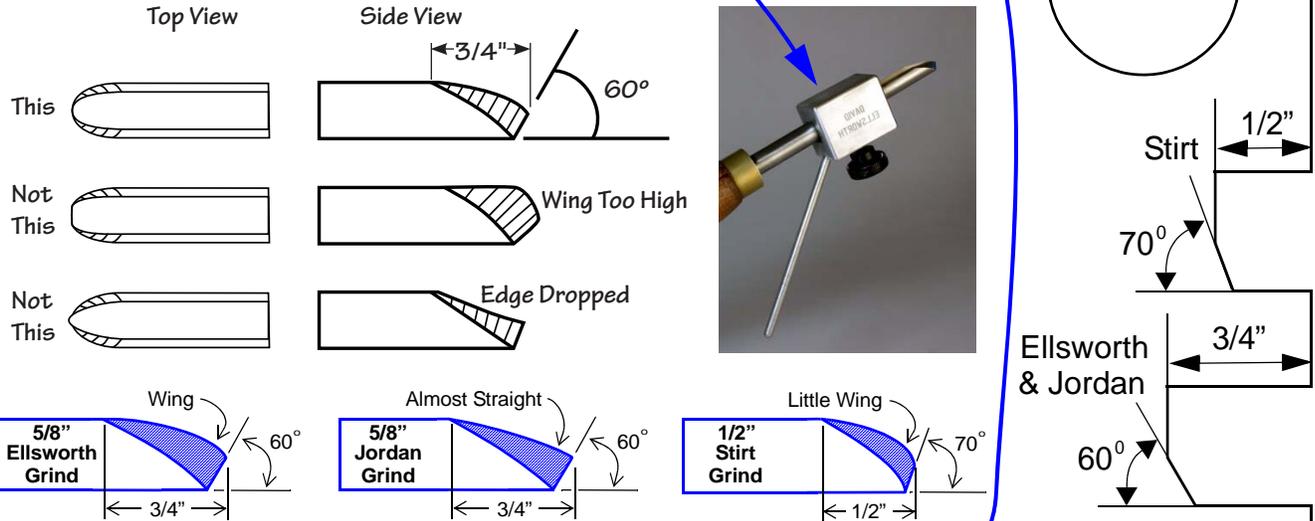
**You** must swing the gouge smoothly to create the shape. **This is NOT fool proof!** The same template will grind many different shapes. The shape is determined by the way you swing the gouge, where you grind and how long you grind.

**Remember: Always grind the tip, twice as much as the sides. i.e. 2 passes on the tip foreach pass on the side.**

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## Ellsworth Grind with Ellsworth Jig & Arm

(Jordan & Stirt Grinds with Ellsworth Jig & Arm)



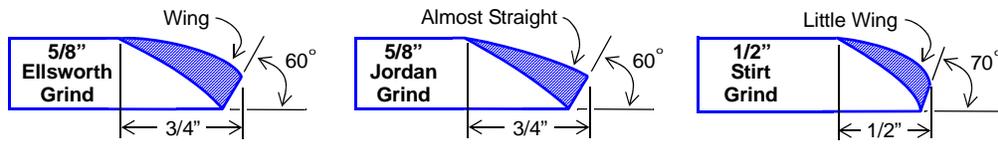
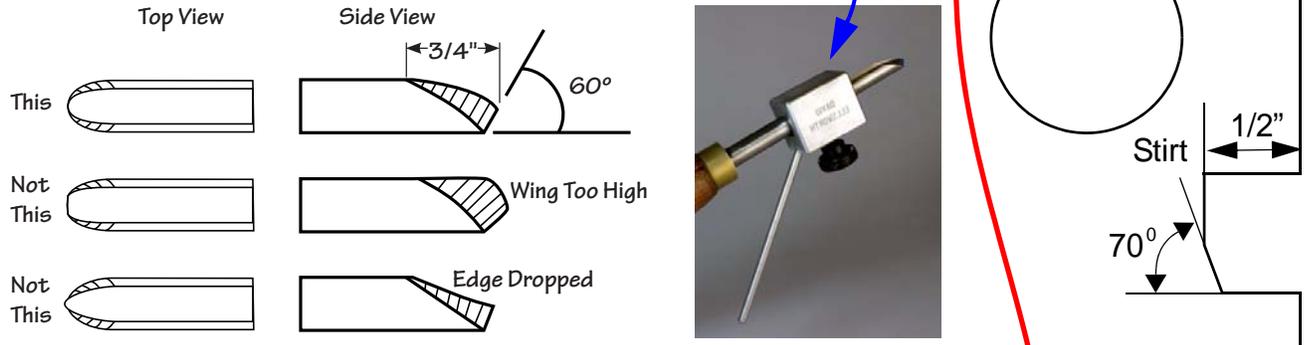
Spray glue this template to a 1/4" piece of plywood. Then cut it out to create a template for setting up grinder.



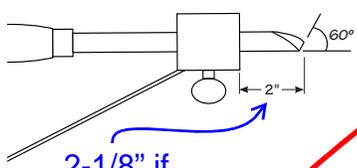
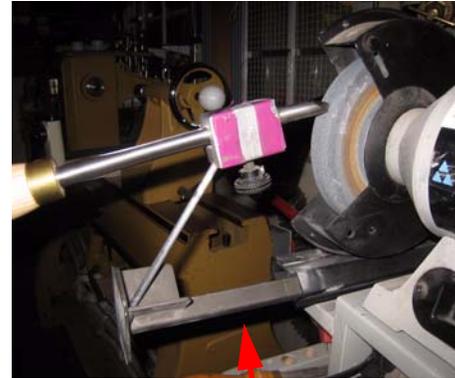
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## Ellsworth Grind with Ellsworth Jig & Wolverine Arm

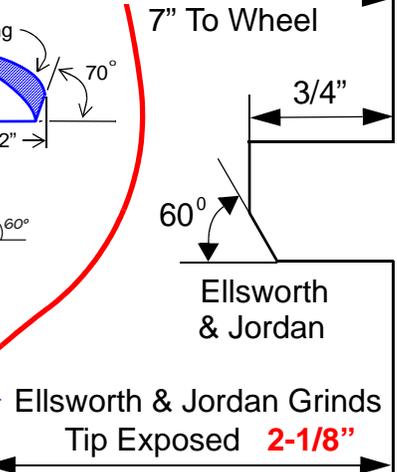
(Jordan & Stirt Grinds with Ellsworth Jig & Wolverine Arm)



5-1/4" To Center of Wheel



2-1/8" if Wolverine Arm



Stirt Grind Tip Exposed 1-5/8"

Spray glue this template to a 1/4" piece of plywood. Then cut it out to create a template for setting up grinder.



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Note: For Stirt grind add 1/4" (rather than 1/8") to 1-3/8" to get 1-5/8" because the Ellsworth Jig shoves the 1/2" Stirt gouge (verses 5/8" Ellsworth gouge) up 1/8 of an inch because the Ellsworth Jig thumb screw is on the bottom!

Note: Wolverine Varigrind jig keeps the bottom of the gouge constant because the thumb screw is on top.

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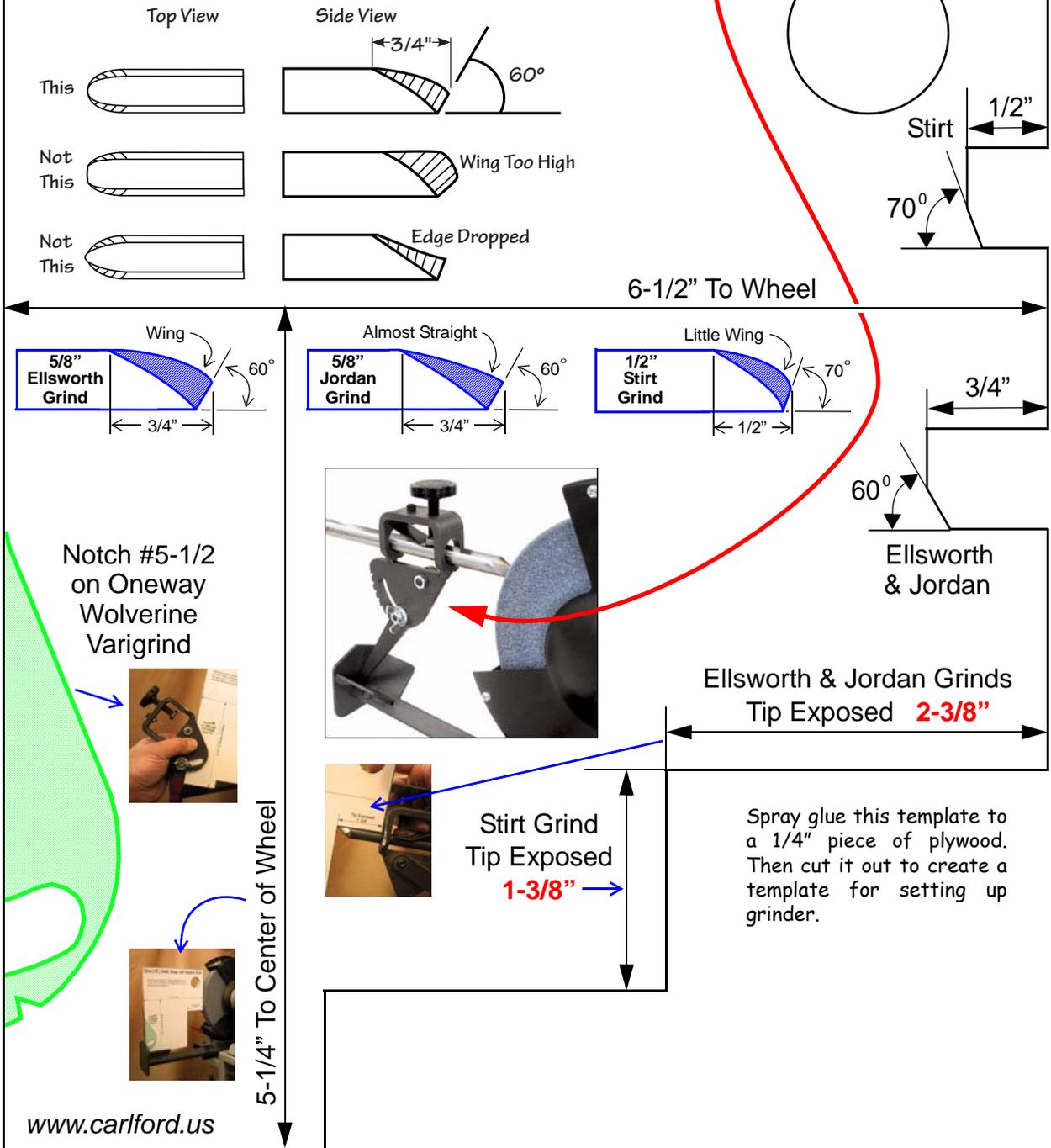
Chalk

Eraser

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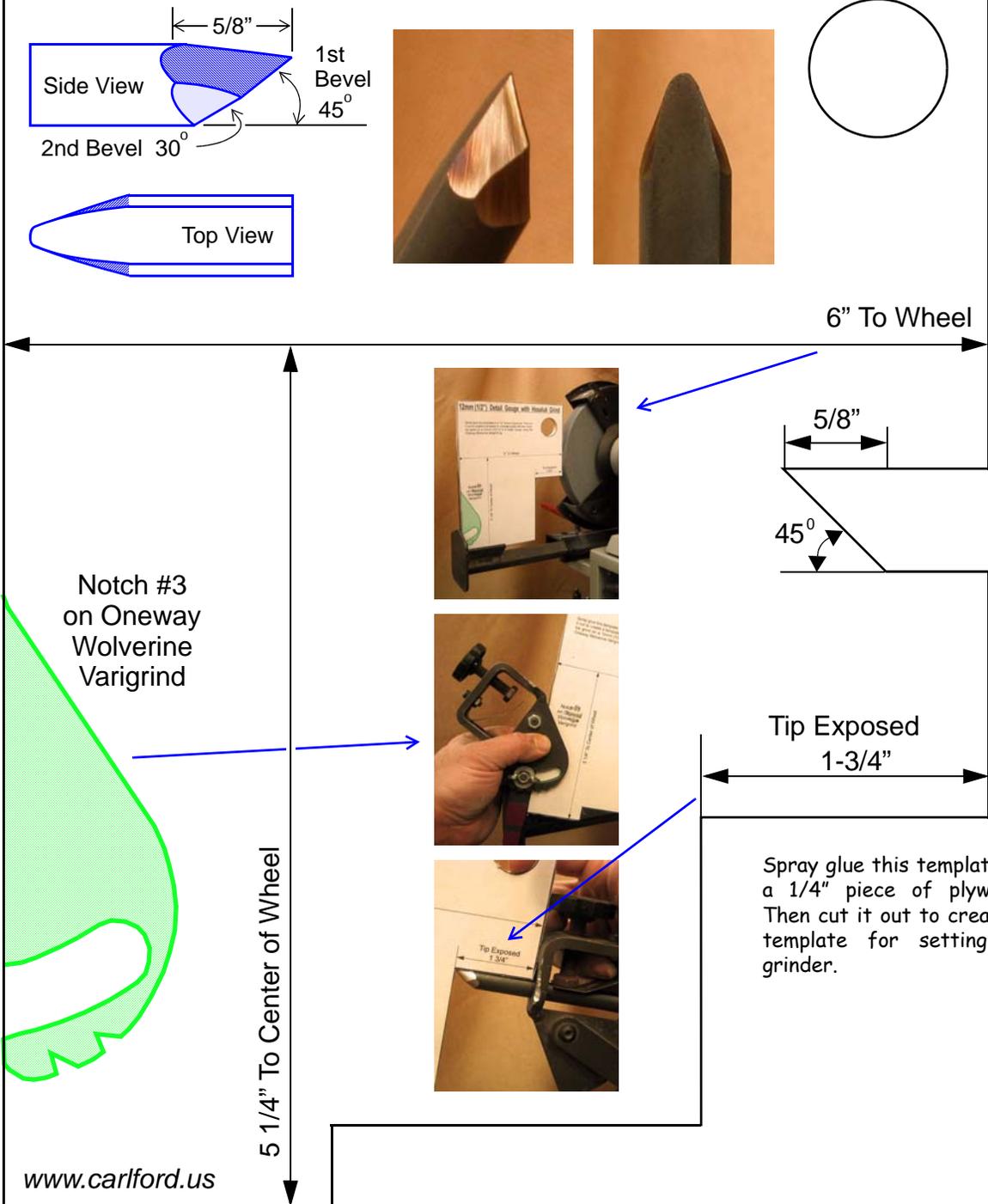
## Ellsworth Grind with Wolverine Varigrind Jig

(Jordan & Stirt Grinds with Wolverine Varigrind Jig)



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## 12mm (1/2") Detail Gouge with Hosaluk Grind



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## 16mm (5/8") Detail Gouge with Hosaluk Grind

