



BUILD IT YOURSELF BUMPER GUIDE

PART 2

20 x bumper tips

We gathered the best DIY tips to get you started.

The construction

Lighting and other finishing touches are also covered.

Everything you need to know to build a great-looking bumper for your tractor.

If you're going to do it anyway, why not do it well and nice right away?

The guide for the DIY builder



MAKE A TOP BUMPER

Since we started out this way ourselves and appreciate the DIY builder, we're happy to share this 'build-it-yourself' guide. This is PART 2 with 10 tips. PART 1 include another 10.

We collected 20 truly useful bumper tips, which we've thought long and hard about and learned over the past 12,5 years.

This way, you can do it right the first time ;)

PART 2

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Don't miss **part 1** (tip 1 t/m 10)!
Also available for download on
our website!



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TIP 11

PLATE ROLLING

TM BOVEN

TM VOOR

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You didn't end up here to make a plain, straightforward bumper, of course! If you want it to look good, aim for rounded shapes. Tractors hardly have any sharp corners anymore ;)

ROUNDED SHAPES

With a plate roller, you can create beautiful rounded shapes from sheet material. Due to stress lines in the steel, each plate will have a slightly different curvature after rolling. You need a measuring template to correct each plate for the exact curvature.

TIP 12

BENDING

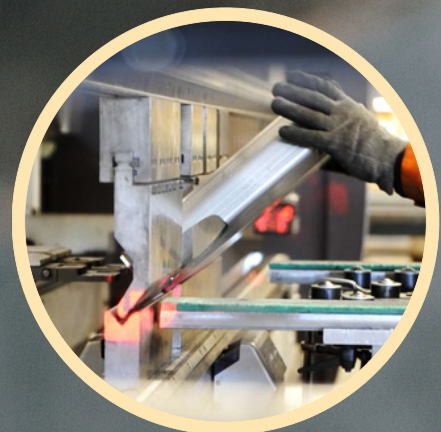
ENGRAVING

Make sure to include engravings on the bend lines. When the bend line is exactly in the right position, the 'puzzle' fits together perfectly. This prevents a lot of trouble during tack welding and welding.

ANGLE CORRECTION

Bending with angle correction ensures that each plate is bent at the exact correct angle. Every plate reacts differently in terms of dimensions during bending. This is due to the stress lines in the steel.

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TIP 13 TOPLINK

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Not unimportant: a strong tow point for when you get stuck.

STRONG TOW POINT WHEN GETTING STUCK.

Our top link plate is made of 12 mm steel. Because it runs in one piece all the way to the bottom, there are no weak joints, which provides a lot of strength (up to 8 tons of pulling force).



TIP 14 LIGHTING

Make the connectors waterproof by using a heat shrink tube with adhesive and secure it firmly with a heat gun.

WATER RESISTANT.

Neatly route the cables with cable ties and, if possible, create an integrated conduit in the frame for the lighting, see below.

More tips:

- If you want to install indicators on your bumper, you will need a 7-pin connector.
- Use lighting with the correct colors and light intensities according to legislation, see tip 15.



TIP 15

WIDTH LIGHTS



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CORRECT COLORS

Use marker lights with the correct colors according to legislation (E-mark).

>> White at the front, red at the rear, and orange on the sides.

Also pay attention to the rules for light intensities and colors for the indicators.

According to the law, the white light at the front must always shine straight ahead. That's why we made the marker light rotatable. The tube holding the marker light (integrated into the frame) is rotatable,

+ EXTREMELY FLEXIBLE

Choose marker lights that are not stiff and can take some impact.

+ RECESSED

Construct the marker lights, like LED strips, recessed in the frame. This prevents them from breaking easily.

TIP 16

ADJUSTABLE SIDE PANELS

ADJUSTABLE IN WIDTH

One of the most important things about a bumper, in our opinion? That you mark the exact width of your wheels.

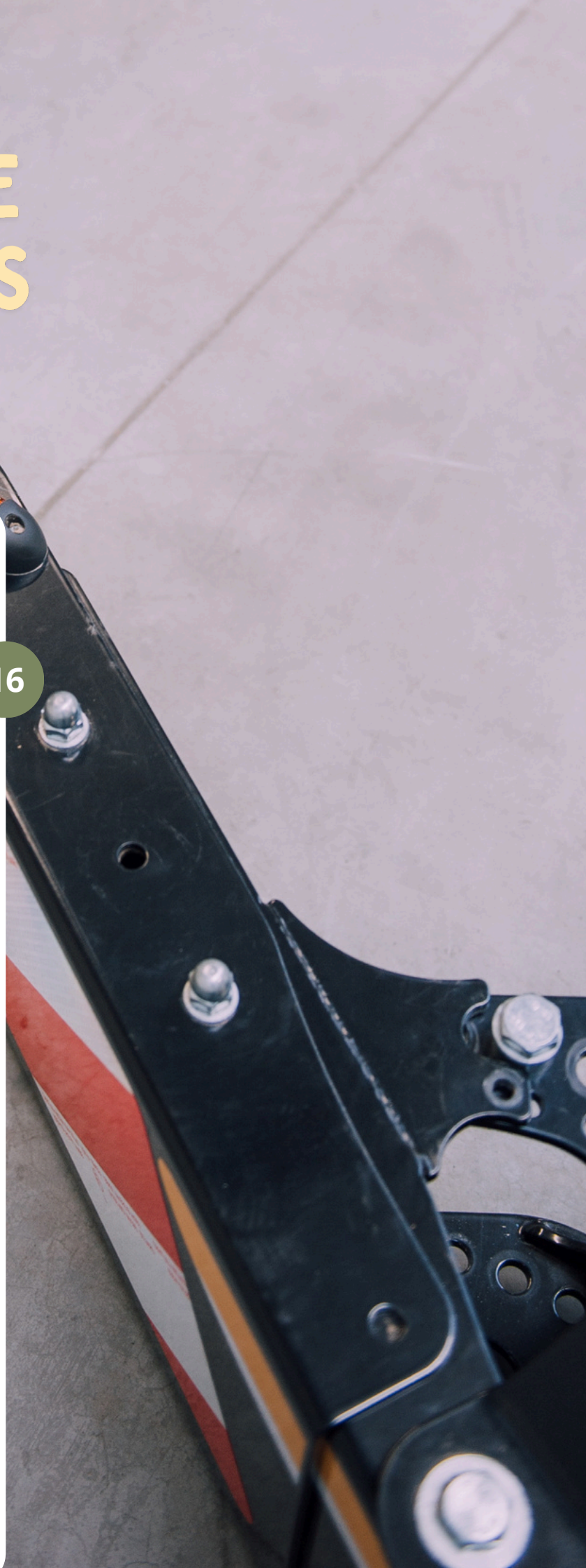
Our side wings are adjustable in width so the marker light is always positioned on the outside of the wheel, no matter which tractor the bumper is mounted on. Got a wide machine behind the tractor in spring? Or dual wheels? Make it so it's easy and quick to adjust.

BENEFITS HINGED SIDE PANELS:

- Compact adjustment close to the wheels for better maneuverability;
- Space between wheel and bumper is laterally shielded for two-wheelers;
- Possibility to install shear bolt protection (see tip 6 in DIY part I).

NOTE: The hinged side panels are patented and may only be used when the bumper is made for personal use.

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TIP 17

GUIDE POLES

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You might wonder why there are poles on a bumper? We often hear from bumper users that they find them very useful because they are clearly visible from the cab. You can always see exactly how far your bumper extends.

Our tip is not to make them out of steel, because they can be a dangerous protruding part in a collision. We believe it's safer if they break off in such a situation.

FROST PROOF

In our early years, we often had to replace them because they broke due to frost. Now we make them waterproof with a cap and from very durable material, namely POM-C plastic.

REFLECTIVE

Stick a reflective sticker on them to provide extra width marking at the eye level of motorists.





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TIP 18

STORAGE BOX

Besides front weight, you can make the bumper even more functional by integrating a storage box. Or you can make a bumper with only a storage box (small or large) if you don't need front weight.

Size: Make the box large enough (at least 50 liters) so it can fit at least one toolbox; this can be handy.

Waterproof: Equip the storage box with a rubber seal to make it waterproof.

Lock: Install a lock if you want to keep your belongings safe overnight.

DRAINAGE HOLES

Making it 100% waterproof is expensive, so it's better to ensure that any water (also when cleaning the box) can drain out. Make drainage holes. To improve it further, make the bottom of the box slope towards the holes.

DRAINAGE CHANNEL

If you make a small channel above the box, much of the water will drain to the side.

TIP 19

BLASTING + POWDER COATING

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When you have made a nice bumper, of course you want it to stay beautiful for a long time. The best is to have it blasted and then apply a prime powder coat layer.

Finally, apply a top powder coat layer. This makes it impact resistant.

CHASSIS COLOR

What often gives the best result is to paint the bumper the same color as your tractor's chassis. Any extra 'design' decals can then be in the tractor's color. This creates a nice overall look.



TIP 20

DECALS

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Do you want to personalize your bumper with your own logo or the tractor brand logo? Or have it match the color of your tractor?

If you want to do this with stickers, make sure to choose the highest quality stickers with the best adhesive strength and that are resistant to cold and sun.

AT LEAST 18°C.

Apply the sticker(s) in a room with a minimum temperature of 18 degrees Celsius. Cleaning and degreasing is very important. Do not use soap.

When using the best adhesive quality stickers, you need to apply them right the first time ;). We use magnets for this. Apply them smoothly without any unevenness using a squeegee.

+ SEALER

Apply an extra layer of sealer on the corners of all stickers to make them last longer.



Why a bumper?

Visibility

Underrun protection

and practical!



Who is TractorBumper?

TractorBumper since 2013.



BOERENZOON MET PASSIE VOOR LANDBOUWTECHNIEK.

A farmer's son with a passion for agricultural technology. I am Fons, son of a dairy farmer, and I spent my youth working Saturdays and weekends at Loonbedrijf Van Eijck in Alphen (NB). With a passion for technology, I worked for 6 years as a designer developing KUHN drum mowers. Since 2013, I have been fully dedicated to the TractorBumper project.

I am convinced that better lighting prevents dangerous situations and that shielding the wheels reduces the consequences in case of an accident.

My passion is to make everything perfect down to the last millimeter. A bumper must be practical both in the field and on the road, as well as functional (weight/storage box), and something beautiful for your tractor.

— View all models

Prefer to buy a
bumper? :)

Visit our webshop!

TRACTOR BUMPER.com