

<http://dmr-gutters.com>

Gutter Replacement Installation Instructions for DIY

(written for the laymen/do-it-yourselfer)

Updated 7 / 2013

 Read over all these instructions before ordering parts this project to evaluate if you can do this from start to finish. Walk around your house looking it over to carefully evaluate this project and think about each step. Figure out where the old gutter parts will be stored before they are recycled. Also, decide where you will process the new parts before they are ready to install. Carefully get measurements to fill in the form for the new gutter parts order. Longer gutter parts can be trimmed to fit, but if the parts are too short that’s not so easy to fix, so make sure the new parts will be long enough when placing your order.

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| Removal Tools | Metal Gutter Removal Instructions |
| 5 gal bucket A large garbage bag Claw hammerCat’s paw nail removerTool belt w/pouchesA T head wrecking barLong tape measureA pair of left and right offset tin snipsDrill w/assortment of tipsWire brushScraperPaint brush**Installation Tools:**Ladders: I use a 4' step ladder, 8' extension/step ladder w/stabilizer, 32' extension ladder w/stabilizer & leg levelersA pair of sawhorses to work on the gutters up off the ground. The top covered w/ padded outdoor carpet to avoid scratches, but cardboard taped on can workKnee padsA good pen or fine point markerPlumb-bob | **DSP Removal:** I recommend you take the downspout off first, so no more debris is washed down into your storm drains. Use a claw hammer and cats-paw to remove all the nails that hold the downspout pipes on the siding, unless they are attached with screws of course (rare).**Preparation:** Clean out the gutters using the bucket and empty the bucket into the trash bag as needed. This is so the gutters are not so heavy and make a mess on the ground as you remove them. If your old gutters are not so rusted out they will still hold water perform a water test to see where it leaves standing water in those clean gutters, so you can make notes of this to help give you an idea of how the new gutters will need to be positioned differently, so the rain water will drain efficiently. The drip edge flashing may also need replaced or custom formed to account for the correct gutter leveling.**Gutter Removal:** I use a T head wrecking bar to knock the 7” nail spikes loose and then pry them the rest of the way out with the claw end. If they fling out on the ground try to keep a mental note of where they landed, so you can gather them up as soon as you are on the ground again. Collect the spikes and ferrules in your tool-belt pouch. As you go down the line of the roof edge loosening the gutter use the tin snips to cut the gutters in 8’ to 9’ segments by cutting the front and back wall of the gutter letting it gently swing down. Then you can cut the floor of the gutter while being ready to catch it before it drops. Set them where it will be safely stored until you are ably to recycle these parts. You should clean the debris and spider nests that are behind the gutters and downspouts. Scrape any lumpy paint or caulk that may be in the way of a new install. Repair or replace any defective fascia boards. It is a good idea to add some deck screws to help support the fascia boards, so they can handle the weight of the new gutters if they were to become clogged and full of water.  Often I find the fascia boards and siding had not been painted behind the gutters and downspout, so if the weather is above 50 degrees and not too wet this is a good time to prime and paint these areas to match before the new parts are installed. You may want to consider having us form aluminum fascia covers to match the gutters. It is easier and quicker than to scrape and paint and looks better. The diagonal rake edge boards can also be capped with the same metal covers to better protect them than just paint.**Disposal:** Condense these parts by stacking then into each other for transportation to the scrap yard. The downspout can be condensed by smashing them under foot and even folded in half. If they are ready for hauling while I am out there to deliver the new gutter parts I will haul them off for you and recycle them at no charge. Plastic gutter will cost extra for the dump fee, since they may not be recycled. They will need to be cut in 3’ segments to fit in a trash can. Some recyclers will take PVC plastic. |
| Cordless **impact** driver and right fin snips to cut out to the 4 corners. Use t¼" magnetic**New** #3 Phillips tip, 4” to 5" extension. swivel joint to help with corner screws1" bi-metal hole saw1/8" to 9/64” drill bit.Pliers3” offset seamer (optional)Hacksaw or chop saw to cut downspoutsRivet hand toolLeft and right offset tin snipsDownspout crimper.Caulk gunA good 2’ level | **Gutter Preparation Instructions****Measurements:** After the old gutters are removed get the exact measurements of the roof, fascia boards, or rafter tails and write it on the chart to replace the loose measurements you may have gotten. Where there are just end-caps add ½” to the measurement of the roofing shingles on each end. For corner configurations measure the fascia boards. Carefully measure the outlet locations for the downspout placements. Use the plumb-bob to get straight DSPplacement, since just eye-balling it is not likely going to be accurate. A dangling tape measure can work, but is less accurate.**Gutter Supports:** Set out the new gutters on a pair of padded sawhorses and trim to the exact length. Place the **H**idden **H**anger in the gutters every 2 feet apart or to line up with each rafter tail. Pull the back of the HH up into the safety hem (if the gutter has it). While pulling the HH up tight pre-drill the screw holes with a small 1/8” drill bit. Start a pair of **S**tainless **S**teel screws into the back of the HH outer holes. Use the 1” to 1½" **SS** screws for fascia board attachment, or 2” to 2.5" screws for rafter tail attachment.**End-caps:** Position the end-caps on the ends of the gutters where needed. While holding it in place seal with caulk along the inside seam. Press the caulk deep in the joint with your finger. Squeeze the outside end-cap flanges closed tight with pliers or a 3” seamer (if you have that tool). Drill rivets holes through the 3 layers of metal of the outside flange. At least 2 on each of the 3 faces, 6 total. Use spray paint inside the gutter over the caulk to use as a solvent to smoothen the caulk with your finger yet again. Then spraying one last time to shade the caulk from the Sunlight.**Outlets:** Flip the gutter upside down and place the elbow on the bottom of the gutter pointed in the right direction. Trace the outside of the elbow touching the floor of the gutter. Cut a hole in the center of the outline mark with the 1" hole saw. Use the left and right tin snips to cut from the hole out to the 4 corners of your marks. Use the pliers to pry the metal up at a right angle. Caulk the inside rim of the elbow near the edge. Then position it on the bottom of the gutter where you made the outlet. Rivet through the side of the elbow and the flanges of the bottom of the gutter you bent. Flip the gutter back over right side up and crimp the backside of the gutter with the **DS** crimper on each side of the outlet to give the gutter a dip at the outlet. |
| **Installation Instructions****Attaching the Gutters:** Set the ladder in the middle position of where the gutter goes. Rest the ladder stabilizers on the roofing just above where the gutter goes in place. Leave enough space for the gutter under it. Holding the gutter where it is balance in the middle lift the gutter up into position as best you can. The gutter will be bowing a bit, but as long as it is not more than 50’ long, it should be fine to install with just 1 person. Drive the center screws in with the cordless impact driver. If the screw spins instead of pulling the gutter tight against the wood and cinches down; you may have cracked the wood, striped out the hole, or there is too much dry rot. You will need to change the angle of the screw, reposition the hidden hanger, or use a longer set of screws to dig deeper to find some good solid wood for a secure attachment.**Sideways Alignment:** Check the ends of the gutter to see that the sideways position is correct, having the end of the gutter pulled up to meet the roof and set ½” past the edge of the roofing shingles or lined up with the end of the fascia board where there is a corner. Measure the correction needed, and go back to the center to reposition that center screw. Make a mark on the drip-edge of where you need the screws repositioned over sideways to. Run the screw out and slide the gutter into the corrected position and run the screws back in.**Leveling:** Go to the end away from the outlet. Lift the gutter up into position as high as it can be and drive the end screws in. Set the level in the bottom of the gutter against the back wall of the gutter to get a good reading. Keep in mind that sand under the level can give you a false reading, so make sure the floor of the gutter and the bottom of the level is clean. Be careful to adjust gutter height with the bubble in the level touching the line away from the direction you need the water to flow, as opposed to dead center. This gives the gutter a slight slope towards the outlet, but not too drastic. Work your way towards the center driving the screws in while checking the level as you go. You may need to temporarily drive a screw in on the outlet end to loosen the center screw for height adjustment. As you’ve work your way to the middle again reposition the height of that center screw as needed. Finish driving all the screws in checking with the level to make sure it has the right grade downwards the outlet.**Corner Pieces:** Caulk and rivet any corners you may have. Use 4 to 5 rivets across the bottom, 3 to 4 in the face, 1 on the top of the outer lip, and 2 to 3 stainless steel screws w/washers in each inside seam. Caulk over inside seams and the rivets inside the gutter. Smoothen the caulk with paint and your finger like you did in the end-caps.**Downspout Installation:** Install the **L**eaf-**C**atcher first with the screen to be positioned 3’ above the standing surface (see **LC** instruction sheet). Hold the other **DS** elbows up in position to get the measurements between the elbows and down into the **LC** 1.5”. Cut the **DS** pipe to length and assemble with 2 rivets for each connection. Rivet the pipe cleats on the back of the **DS** pipe not more than 6’ apart. Use the wider head **SS** screws to install the downspouts on the house. Do not rivet the upper **DS** assembly onto the **LC** or the upper elbow under the gutter. That will be the connections that are left loose to be able to remove the **DS** off the siding if needed. **Note:** Try to set the gutters with a slight slope towards the outlet if possible to avoid standing water when some debris begins to accumulate. Be sure there is a healthy overhang to the roofing shingles and drip-edge flashing of ½” to 1” overhanging the roof edge, Any more and there is little room to fit your hand in the gutter for cleaning. The drip-edge flashing should always be installed so the bend lines up with the edge of the shingles. Not tight to the fascia boards.Best luck. Any questions can be directed to David Rich of DMR Gutters though the web site or (503) 351-7082 if it is a rush. |