

Vulcher 2 the Safety Mulcher/Installation

Tools required: tape ruler, marking pen, 3/8" and 1/4" drill bit, along with drill. Wrench, socket and ratchet, sizes 7/16" and 1/2". Two spring clamps. Hack saw or similar cutting device.

Pieces in the manual kit include: Upper section of Vulcher 2, Bottom section of Vulcher 2, with holes in the bottom lip. 2 Metal braces to be installed within the Vulcher cover. Polymer front door stop/grass deflector for the inside front of the Vulcher cover. Back door, lower section. Hardware including nuts, bolts, pins, and clips. Mounting base, with top plate attached to it. Backing plate to be mounted to mounting base. Curved under deck baffle. Metal deflector baffle that gets placed inside the Vulcher cover towards the back door.

Mounting Instructions: All models.

Basic Manual model of Vulcher 2 the Safety Mulcher and the first group of instructions for Vulcher 2 the Safety Mulcher, with mechanical control assembly.

Step 1. Remove existing grass shield. If your machine has a baffle at the top back corner of the discharge area this will need to be removed. Normally it has 3 bolts that can be removed allowing the baffle to be removed. If this baffle is welded in place, it will need to be cut off using a reciprocating saw or other cutting device.

Step 2. After removing the Vulcher parts and pieces from the box, Locate the mounting base with the top plate that is fastened to it. Position it on the discharge side of the mower approximately 1 1/2" to 2" back from the edge of the mower and about 4" from the front leading edge of the mower deck. Position it so that it stands on the narrow 1" base with 2 holes in it on the mower decks top surface. Make sure that there is plenty of room for it to operate by moving the top plate through its different positions. Before drilling the holes look under the mower deck to make sure that there is no weldments or items that will be in the way of the bolts and nuts. If the Vulcher needs to be repositioned do so now and recheck holes. When satisfied with the placement keeping it square with the mower deck edge, mark the positions of the two mounting base holes. Drill them out using a 3/8" drill bit. Install 5/16" by 3/4" bolts through the bracket and through the mower deck and secure them from underside of mower deck using the 5/16" serrated flange nuts.

Step 3. Position upper polymer Vulcher under the top plate and center the mulcher over the discharge side of mower deck. Allow mounting top plate bracket to sit on polymer shell, align the Vulcher shell in the correct position. Position the Vulcher so that it completely covers the discharge opening of the mower from the front to the back. Check to make sure that the front nose of the upper Vulcher extends a minimum of 2 1/2" ahead of the front opening of discharge area. This will allow for the angle of the bottom section to cover the discharge opening completely, and allow the door stop to make contact with the mower deck. This helps in preventing the bottom lip being pushed up and into the blade area where it would be hit and cut by the blade of the mower deck. The back door on most mowers will be

positioned just past the back of the discharge opening. This allows the Vulcher to cover the back section of the mower deck as well. Once you are satisfied with the position of the Vulcher mark the four hole positions where it will be fastened to the top plate. Drill the two 3/8" holes. Insert 5/16" x 1" bolts through the top plate and again through the holes that were just drilled in the polymer shell. Turn the assembly over and install the two metal braces that each have two holes in them and are curved, the two bolts that go through the top plate and upper Vulcher shell also go through these two metal stays, install serrated flange nuts and tighten securely. The top plate on the upper Vulcher section can be easily removed and repositioned using auxiliary hole markings on the top of the Vulcher for your guide. Simply reposition top plate drill out corresponding holes and then bolt back together.

Step 4. Now that the upper Vulcher assembly is in place, next take the lower section of the Vulcher; this is the piece that has multiple 3/4" holes in the bottom lip. It is best to clamp this temporarily in place using hand spring clamps. This section is placed on the inside of the upper assembly wall, so that it sandwiches the metal stays between the upper and lower polymer shells. with the bottom lip turned in towards the mower deck. The ideal placement of the bottom lip is one inch below the mower blade, slide the lower section upwards or down to achieve this making sure to make it even in the front and the back. Drill through the existing holes in the upper section of the Vulcher and then through the lower section. Install the 5/16" x 1" slotted screws through the upper assembly and the lower assembly and put the nuts on them. Remember to install the front door stop with grass deflector using the front positioned bolt. For the next set of holes flip the Vulcher up and drill the two holes in the two corner positions approximately 2" above bottom bolts matching the angles of the front and back edge of the Vulcher approximately 1" in from the edge. Note: You may need to swivel the door stop out of the way to drill the front hole. After drilling the front hole through, reposition the door stop in a vertical fashion and from the front face of the upper assembly drill the hole through. Install 5/16" x 1" bolts in these holes now. This will mean that the front bolts on the face of the Vulcher will be securing multiple layers of polymer.

Step 5. With the Vulcher now in place in the down position, install the lower section of the back door. Make sure it is covering the Vulcher from top to bottom. The door can be raised or lowered by removing the nut and bolt, and then repositioning the 3/8" hole. Place door in proper position and drill new hole and then fasten lower section back in place leave bolt loose so that bottom section can swivel.

Step 6. Take polymer backing plate and install, centering it on mounting bracket using 5/16"x 3/4" carriage bolts. You will need to position and then mark holes to be drilled out with 3/8" drill bit. If the Vulcher arm is going to pass through the backing plate, a 1 1/2" x 3/8" wide slot will need to be taken out using a hack saw or die grinder with cut off blade attached on it.

Step 7. Take the metal tin deflector and place on the inside of the Vulcher cover. Position it and bolt it so that the curved section feeds into the back of the discharge opening allowing grass a clear path back under the mower. The holes should be place in the raised area of the upper shell aligned with the existing screws, and approximately five inches forward of the back edge of the discharge opening.

Your Vulcher can now be positioned using the hairpin clip, and hitch pin. Simply raise or lower the Vulcher while the blades are off and not spinning. Align the holes in that position and insert hitch pin, place hair pin clip in place. Note you may have to trim the lower edge of the door stop so Vulcher 2 sits in a vertical configuration with relation to the mower deck discharge.

Baffle Installation for Vulcher2 Plus:

The Vulcher 2 plus Baffle comes fully assembled. 1.) You will need to lift mower for easy access. 2.) Position blade so that it rests straight across deck in a 9 o'clock/and 3 o'clock position. 3.) Measure in from the discharge edge 2"give or take ¼". Mark at the back edge of the blade, in 2" from discharge, this will be the pivot hole for the new baffle. Drill this out to 3/8". Take the baffle and remove the (2), 5/16" bolts from the two bent tabs. Insert bolt with washers from the bottom through the first, and largest baffle tab, washer, and then through the deck using the 3/8" hole that you previously drilled out. Install lock nut on top and tighten to allow movement of baffle. 4.) Swivel baffle or move baffle against the back wall of the mower deck, it needs to lay flat against this back wall. If it does not lay flat you will need to remove bolts securing band in place. Once band and bolts are removed take a hammer or mallet and tap band so that it conforms to the back edge of mower, reinstall band and bolts with lock nuts. Note: you will not be able to bend baffle if band is bolted in place. If baffle needs to be deeper slots allow polymer to be moved up or down so that it sits about ¼" above wing on back side of blade. This gives clearance for the blade to pass under the baffle. With the baffle in this position we call it closed. Locate and mark the hole position for the 2nd tab on the baffle assembly. Drill out to 3/8" this will serve to lock baffle in this position and allows mower to operate as a dedicated discharge type mower. 5.) Swivel baffle to the full open position. This will place trailing edge of baffle up next to spindle housing hub. Locate mark and drill hole out to 3/8", this will serve as the locking hole for this position. In this position you will have moderate suction with maximum flow for processing grass and leaves in wet and heavy conditions. 6.) The next position should locate the baffle in the midway position. Locate and mark the hole position and drill out to 3/8", this will serve to lock baffle in this position. This will give the operator maximum suction for cutting light grass and or dried leaves and debris.

Note; if the baffle is not going to be used in the other two positions those holes need not be drilled until they are desired.

This baffle when used in conjunction with the Vulcher allows operators to adjust air flow, and discharge of mower deck. This then allows mowers to be fine tuned to conditions that exist at that time and place that mowing is to occur. This also allows mowers to for the first time be tuned to handle different types of grasses in different geographical locations.

Thank you for choosing Vulcher 2 Plus, your safety mulching partner.

Installing remote unit: Install basic unit as previously stated, next take the remote control box with the cable and short stanchion on it. Position the short stanchion on the top of the mower deck 4 3/4 inches to 5 1/4 inches behind the flat edge of the mounting plate that is bolted to the mounting bracket (but do not drill holes) .

Take the end of the cable with the hole in it and bolt on the Vulcher's arm and tighten the ny-lock nut loosely so that it allows movement. Now align up stanchion so that cable is parallel to the Vulchers arm and the correct distance behind the mounting baffle plate. Mark and drill for the (2) 5/16 inch holes and then bolt short stanchion to the mower deck.

At this point you will need to decide where and how the control box itself will be fast fastened to the mower. There are three common approaches.

1): Fasten the control box to the top of the tall stanchion using the (2) 1/4" x 3/4" hex bolts, and flange nuts supplied. Place the stanchion on the back corner area of the mower deck. Position the control box that is now on the stanchion in a position that can be easily reached from the operators position. Mark the two holes and drill them out using a 3/8" drill bit. Fasten the assembly to the top of the mower deck.

2): Take the control box and fasten it to a hard surface of the machine where it can be operate from the operators position. This could be on a body rail weldment.* **DO NOT DRILL THROUGH THE BODY RAIL ITSELF.**

3): Use a crossbar kit and attach it to the handlebars of the walk behind mower.

An alternate install on some smaller decks would be to replace the short stanchion with the tall stanchion put a hole in the appropriate position for the slider assembly to fastened to that tall stanchion. Install the remote box on top of it allowing this tall stanchion to do double duty. Doing this you will eliminate the short stanchion and give you a more compact install. **If you have any questions please do not hesitate to call 1-800-806-6764. Thank you.**

Installation or replacement of Cable.

Remove cable ends from the control box and the Vulcher arm bolts, by removing nylock nuts with a 7/16" wrench or socket. Loosen cable clamps using a 1/2" wrench, to loosen nylock nuts. Using a pair of pliers loosen bushing on cable clamp with a counter clockwise twist. Take cable from clamps. Install new cable by reversing this procedure. Do not over tighten cable clamps by using air tools. This will crush the brass cylinders and make movement of inside cable impossible. Tighten clamps just tight enough to prohibit sliding of brass cylinders. The clamps are installed generally where the markings are on the brass cylinder ends. If you have any questions please call 1.800.806.6764 Thank you.