

USER MANUAL

Please review before installation and/or operation.

Universal Mounting Bracket



ATTENTION

Read this entire Manual carefully before attempting to install and/or operate. Retain for future reference.



CAUTION

To avoid injury, use care when lifting, installing or adjusting.



Each paving machine manufacturer has their own unique screed and screed extension design. Our road safety edge products and center lane jointing products are designed to attach to most standard paving machines by simply drilling two holes in the screed (or screed extension).

For those paving machines which do not allow our edging and jointing products to attach easily, we have developed a Universal Mounting Bracket. This bracket can be attached to any paving machine and our products can then be attached to it.

This product represents yet another creative effort to make the job of constructing safe and long lasting roads as easy as possible for the operator.

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Patents Pending

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TABLE OF CONTENTS

Section 1.	Important Safety Precautions.....	page 3
Section 2.	Product Background and Overview.....	page 3
Section 3.	Description of Key Parts.....	page 5
Section 4.	Installation and Use.....	page 7
Section 5.	Maintenance.....	page 9
Section 6.	Warranty.....	page 10

1. IMPORTANT SAFETY PRECAUTIONS

- Please read the entire operating manual before installation or operation of this unit.
- Use only according to directions in this user manual or other officially published documents of Advant-Edge Paving Equipment, LLC. This unit is designed to be mounted on the screed or screed extension of paving machines and is intended for asphalt only.
- The Universal Mounting Bracket is HEAVY! To avoid injury, use care when lifting, installing or removing. Wear work gloves as appropriate.
- Do not attempt to take apart, repair, modify or otherwise disassemble the Universal Mounting Bracket as it will void the warranty and can cause harm to the operator and others if not done correctly. If you are experiencing a problem, call Technical Support at 814-422-3343.
- During periods when the Universal Mounting Bracket is not in use, it is recommended that the holes in the screed (which were created for mounting) be filled so as to keep them clean.
- **WARNING! DO NOT DRAW THE SCREED EXTENSION TOO CLOSE TO THE MAIN SCREED.** During paving, the Universal Mounting Bracket could be exposed to contact with the cross feed auger and auger shaft if the screed extension is drawn in too close to the main screed. Severe damage could occur to both the cross feed auger and the Universal Mounting Bracket if they come in contact.

IF YOU HAVE ANY QUESTIONS, PLEASE REFER TO SECTION 6. "TROUBLE SHOOTING" AND/OR CALL TECHNICAL SUPPORT AT (814) 422-3343 (EDGE).

2. PRODUCT BACKGROUND AND OVERVIEW

Each paving machine manufacturer has their own unique screed and screed extension design. Our road safety edging products and center lane jointing products are designed to attach to most standard paving machines by simply drilling two holes in the screed or screed extension ("Screed"). There should never be a need to make major alterations to your equipment such as cutting away strike-off or kick out plates that are in the way.

We have noticed that on some models of the Blaw-Knox, Volvo and Carlson paving machines our edging and jointing products will not easily attach unless our Universal Mounting Bracket is employed. The reasons for the difficulty in attachment arise from Screed designs that have one or more of the following elements:

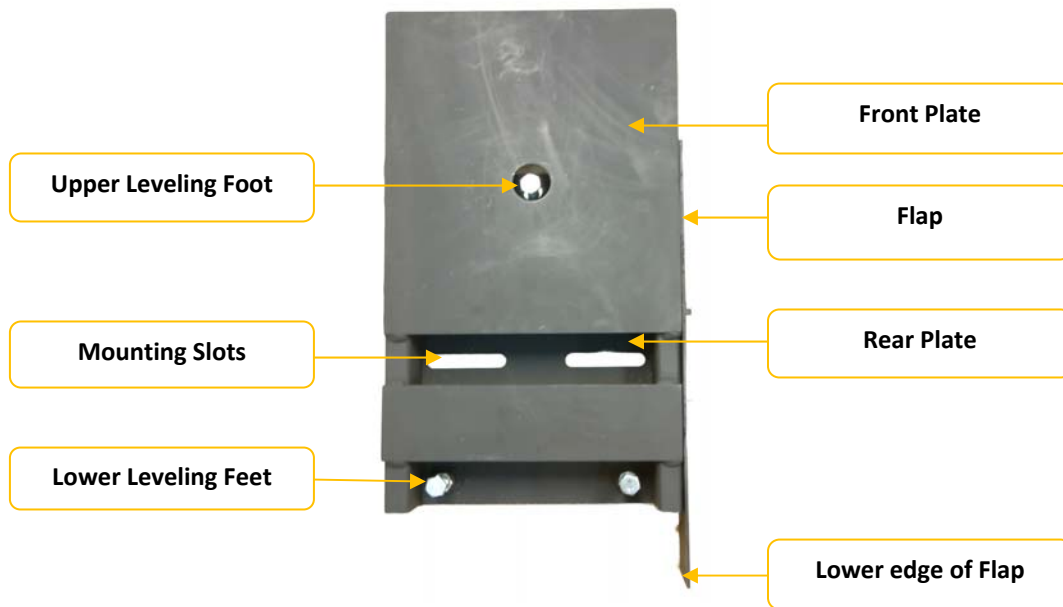
1. A lower strike-off plate (or kick-out plate) that prevents our product from being mounted plumb and/or prevents our products from moving up and down or rotating as designed.
2. A curved or arched Screed face.
3. An uneven Screed face with bolts and or other items that prevent a device from being attached plumb
4. An angled Screed face that prevents our units from being attached in a plumb position.

Our edging and jointing products are designed to attach to Screeds that have a minimum of 19" of flat, vertical Screed face. As an operator, if you find when attaching our edging or jointing products that they do not sit plumb and flush against the Screed, or if you find that there is a lower or upper kick-out plate on the Screed that interferes with the operation of our product, you will require a Universal Mounting Bracket in order to avoid making permanent alterations to your paving machine.

We make two sizes of the Universal Mounting Bracket. One for our Ramp Champ (11 ½" wide) and the other for our Advant-Edger (10" wide).

3. DESCRIPTION OF KEY PARTS

The Universal Mounting Bracket consists of four major components: the Rear Plate, the Forward Plate, the Leveling Feet, and the Flap. The purpose of the Universal Mounting Bracket is to provide a flat and plumb surface on which our edging and jointing products can attach. Simply put, our Universal Mounting Bracket attaches to the Screed face via two bolts and our edging and/or jointing products attach to the Universal Mounting Bracket via two more bolts. The Universal Mounting Bracket essentially holds the edging or jointing devices plumb and away from any Screed obstacles that might impair its performance. Additionally, the Universal Mounting Bracket has a Flap that prevents excess asphalt from flowing between the edging device and the Screed.



Mounting Slots are used for attaching the Universal Mounting Bracket to the Screed of the paver. $\frac{1}{2}$ " bolts, washers, lock washers and nuts are provided to mount the unit.

4. INSTALLATION and USE

Unpacking the Universal Mounting Bracket

Carefully unpack the shipping container and inspect the contents. You should find an assembled Universal Mounting Bracket configured in an orientation to be attached to the right hand side of the paver (i.e. for creating a shoulder edge when traveling in the direction of traffic). See section 5 to configure the unit for paving the left hand side of the road.

The assembled unit contains three leveling feet (1/2" bolts with lock nuts) and two bolts with washers and lock washers that hold the Flap in place. Also in the container is a full set of mounting hardware consisting of: two (2) 1/2-13 bolts, two (2) lock washers, four (4) regular washers and two (2) 1/2 -13 nuts.

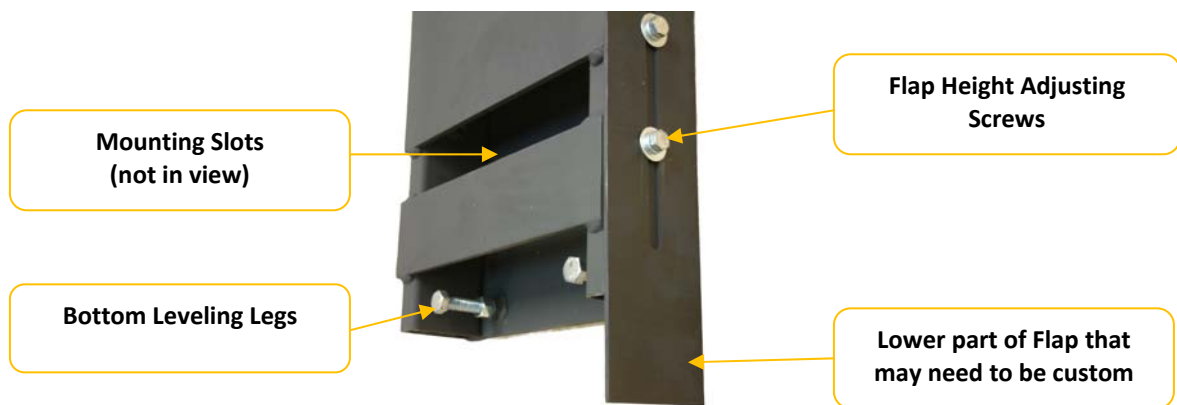
Two holes must be made in the screed to mount the Universal Mounting Bracket. In most cases, the tools required are: a drill, a pilot drill bit, a 1/2" drill bit, and two (2) 3/4" wrenches, one of which should preferably be a socket wrench. In some cases, where it is difficult to access the rear side of the screed, users may find it advantageous to drill holes in the screed and then weld two nuts onto the back side of the screed behind the holes. This method will be explained as well.

There are two Mounting Slots on the Universal Mounting Bracket. They are symmetrical in size and location and are used to attach the bracket to the Screed. They are not used for attaching the bracket to the edging or jointing device.

For installation on Screeds with lower strike-off plates or kick out plates.

- **Step 1:** With the paving machine on level ground, lower the screed so that it is resting on the ground.
- **Step 2:** Orient the Universal Mounting Bracket as in shown in the pictures above. The side with the Mounting Slots should be against the Screed and the end with the two leveling screws should be down. The Flap is shipped in an orientation assuming you are attaching the bracket to the right hand side of the paving machine, thus you should find that the flap is on the side away from the end gate. If the Flap is on the side that is abutting the end gate, please unbolt the Flap and re-bolt it to the other side.
- **Step 3:** Assuming the screed face is plumb and flat, make sure the Leveling Feet screws are not extending through the rear of the bracket.
- **Step 4:** Position the Universal Mounting Bracket vertically against the screed. The bottom edge of the bracket should be just above the lower strike-off plate of the Screed. The side of the bracket should lightly abut the end gate. Leaving a small gap of 1/16" or 1/8" to prevent binding is fine.

- **Step 5: Mark the center location of the Mounting Slots on the Screed face.**
- **Step 6: Drill two 1/2" holes – one for each of the two slots. In cases where access to the rear of the screed is difficult users may wish to tap two holes in the screed that will accept the 1/2-13 UNC bolt. If this alternate approach is taken please make sure that the screed is sufficiently thick to accept a tap. If it is not, we recommend that a nut be welded to the back of the screed in order to achieve a secure attachment. In the event that a cutting torch and welding is desired, only an experienced welder shall prepare the paver for mounting the bracket.**
- **Step 7: Position the Universal Mounting Bracket over the recently drilled holes and attach by inserting a 1/2-13 bolt and washer into each of the Mounting Slots and through the 1/2" holes. Next slide on a washer and lock washer over the protruding bolt, screw on nut and tighten using appropriate wrenches. The bracket should be square to the screed and plumb level.**



- **Step 8: Adjust and fit the Flap to the profile of your paver's lower strike-off plate. Loosen the Flap bolts and lower the Flap until it is resting on the strike-off plate. Next mark the corner of the Flap that needs to be cut off so that it will fit snugly against the strike-off plate when lowered. Cut off the corner. Note: this is an important step to do so as to prevent excess asphalt from flowing between the Screed and the edging /jointing device and leaving a pile of unwanted asphalt on top of the newly formed edge or joint.**
- **Step 9: Attach the edging or jointing device to the Universal Mounting Bracket according to the user manual(s) for these devices. Note the operator will now need to mark and drill two holes in the bracket when first installing these devices.**

For installation on Screeds which do not have plumb level faces or have uneven faces which prevent the edging device from being attached in a plumb manner.

- **Step 1:** With the paving machine on level ground, lower the screed so that it is resting on the ground.
- **Step 2:** Orient the Universal Mounting Bracket as in shown in the pictures above. The side with the Mounting Slots should be against the Screed and the end with the two leveling screws should be down. The Flap is shipped in an orientation assuming you are attaching the bracket to the right hand side of the paving machine, thus you should find that the flap is on the side away from the end gate. If the Flap is on the side that is abutting the end gate, please unbolt the Flap and re-bolt it to the other side.
- **Step 3:** Set the Universal Mounting Bracket on a shim that is 1" to 2" high (2" by 4" works well) and hold the bracket vertically against the face of the Screed.
- **Step 4:** Next, slide the bracket toward the end gate. The side of the bracket should lightly abut the end gate. Leaving a small gap of 1/16" or 1/8" to prevent binding is fine.
- **Step 5:** Adjust the bracket so that it is plumb level using the leveling feet. Be sure to tighten the inside nut so that the setting will not vibrate loose. Should you find that one of the feet is directly on a bolt or other part of the screed which prohibits making a leveling adjustment possible, change the shim height in step 3.
- **Step 6:** Mark the center location of the Mounting Slots on the Screed face.
- **Step 7:** Drill two 1/2" holes – one for each of the two slots. In cases where access to the rear of the screed is difficult users may wish to tap two holes in the screed that will accept the 1/2-13 UNC bolt. If this alternate approach is taken please make sure that the screed is sufficiently thick to accept a tap. If it is not, we recommend that a nut be welded to the back of the screed in order to achieve a secure attachment. In the event that a cutting torch and welding is desired, only an experienced welder shall prepare the paver for mounting the bracket.
- **Step 8:** Position the Universal Mounting Bracket over the recently drilled holes and attach by inserting a 1/2-13 bolt and washer into each of the Mounting Slots and through the 1/2" holes. Next slide on a washer and lock washer over the protruding bolt, screw on nut and tighten using appropriate wrenches. The bracket should be square to the screed and plumb level.
- **Step 9:** Adjust and fit the Flap to the profile of your paver's lower profile if necessary. If there is a gap between the bracket and the Screed face, this can be an important step to do so as to prevent excess asphalt from flowing between the Screed and the edging /jointing device and leaving a pile of unwanted asphalt on

top of the newly formed edge or joint. To “fill” the gap, loosen the Flap bolts and lower the Flap until it is approximately 1” above ground level. Then, tighten Flap bolts.

- **Step 10:** Attach the edging or jointing device to the Universal Mounting Bracket according to the user manual(s) for these devices. Note the operator will now need to mark and drill two holes in the bracket when first installing these devices.

For assistance during preparation, installation and use of the Advant-Edger,

- call Technical Support at 1-814-422-3343 (EDGE) or
- e-mail us at sales@advantedgepaving.com

5. MAINTENANCE

In the past, diesel fuel has been used to clean paving equipment and tools of residue and materials left over. This method of maintenance and cleaning can be dangerous and harsh on the environment. Recently, soy based cleaning agents are being widely accepted to be just as effective on cleaning paving equipment but without the harmful effects on the environment. Similar cleaning techniques used on your other paving equipment may be applied to cleaning our products. We suggest that the Universal Mounting Bracket be cleaned after use on a daily basis.

6. WARRANTY

EXPRESS LIMITED WARRANTY. Advant-Edge Paving Equipment, LLC warrants to the original purchaser only (Buyer) and subject to the limitations, terms and conditions and exclusions set forth herein: the Universal Mounting Bracket unit(s) are warranted only against failure due to defective material or workmanship for the period of one (1) year from the date of delivery.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, AND ALL OTHER LIABILITIES (CONTRACT, TORT OR OTHERWISE, INCLUDING NEGLIGENCE) AND ADVANT-EDGE PAVING EQUIPMENT, LLC MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE. THIS WARRANTY WILL AUTOMATICALLY TERMINATE AND BECOME VOID UPON THE SALE, TRANSFER OR CONVEYANCE OF THE UNIVERSAL MOUNTING BRACKET(S) OR MACHINE, MACHINE ATTACHMENT OR PROPERTY ON WHICH THE UNIVERSAL MOUNTING BRACKET UNIT(S) ARE INSTALLED AND OPERATED.

ADVANT-EDGE PAVING EQUIPMENT, LLC DOES NOT MAKE ANY WARRANTY OR ASSUME ANY OBLIGATION WITH RESPECT TO THE VALIDITY OF ANY PATENTS, DESIGNS, COPYRIGHTS OR TRADEMARKS WHICH MAY COVER SUCH UNIVERSAL MOUNTING BRACKET UNIT. THE CONDITIONING OF LIABILITY, RIGHTS, OBLIGATIONS AND REMEDIES OF THE BUYER RELATING TO CLAIMS ARISING FROM A DEFECTIVE UNIVERSAL MOUNTING BRACKET UNIT(S) SHALL BE GOVERNED EXCLUSIVELY BY THE TERMS OF THIS SECTION 6 HEREOF.

This EXPRESSED LIMITED WARRANTY does NOT apply where there has failure of the Universal Mounting Bracket unit(s) due to improper use; breakage not due to defect, including, but not limited to, natural forces and/or acts of God; failure on account of faulty or improper installation or handling; where repairs or modifications have been made or attempted by others; or failure on account of installation in or on a product of faulty design or construction. As an example, this EXPRESS LIMITED WARRANTY will NOT apply if an object of any kind is attached to Universal Mounting Bracket unit without the prior written consent of Advant-Edge Paving Equipment, LLC. Sales representatives of Advant-Edge Paving Equipment, LLC are not authorized to make warranties about the Universal Mounting Bracket unit. Advant-Edge Paving Equipment, LLC sales representatives' ORAL STATEMENTS DO NOT CONSTITUTE WARRANTIES, shall not be relied upon by Buyer, and are not part of the contract for sale.

If Buyer believes it has purchased a defective Universal Mounting Bracket unit(s) as described above, Buyer must notify Advant-Edge Paving Equipment, LLC immediately in writing why Buyer believes the Universal Mounting Bracket unit(s) are defective. Advant-Edge Paving Equipment, LLC may then request the Buyer to return the allegedly defective Universal Mounting Bracket unit(s) to Advant-Edge Paving Equipment, LLC; have an Advant-Edge Paving Equipment, LLC representative inspect the unit(s) at the job site, as installed,

or at Advant-Edge Paving Equipment, LLC's address; and/or rely upon the information Buyer has provided to determine whether the unit(s) are defective as described above. If any unit(s) are proven to be defective as described above, then Advant-Edge Paving Equipment, LLC will, at Advant-Edge Paving Equipment, LLC's sole discretion, either repair or replace the defective unit(s) or issue to Buyer a credit equal to the price of the defective unit(s) charged by Advant-Edge Paving Equipment, LLC to Buyer. Said repair or replacement of defective unit(s) or issuance of credit shall constitute fulfillment of all liabilities of Advant-Edge Paving Equipment, LLC to Buyer with respect to, or arising out of, the unit(s), whether based on contract, negligence, and strict tort or otherwise. Advant-Edge Paving Equipment, LLC reserves the right to change design, color, and models and to discontinue the manufacture of any unit(s).

LIMITATION OF LIABILITY. Advant-Edge Paving Equipment, LLC shall not under any circumstances be liable for incidental damages or for special or consequential damages. The remedies of Buyer set forth herein are exclusive, and the liability of Advant-Edge Paving Equipment, LLC with respect to any contract or anything done in connection therewith such as the performance or breach thereof, or from the manufacture, sale, delivery, resale, installation or use of any Universal Mounting Bracket unit(s) covered by or furnished to Buyer, whether arising out of contract, negligence, strict tort, or under any warranty or otherwise, shall not, except as expressly provided herein, exceed the price of the unit(s) upon which such liability is based. This limitation of liability applies to original and replacement unit(s).

CONTROLLING LAW. The sale, delivery and use of Universal Mounting Bracket unit(s) shall be governed by, and this warranty shall be construed and enforced in accordance with, the laws of State of New York.

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