ROADWIDENER

OPERATOR, MAINTENANCE AND PARTS MANUAL

Offset Vibratory Roller

www.roadwidenerllc.com

ROADWIDENER

OPERATOR, MAINTENANCE AND PARTS MANUAL

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1 GENERAL INFORMATION

Introduction

Congratulations on your purchase of the Road Widener Offset Vibratory Roller (AVR). We would like to thank you for purchasing the offset vibratory roller. The offset vibratory roller was engineered and constructed to provide years of productive results on the jobsite.

The AVR is the ultimate in safety and flexibility for vibratory compaction on road shouldering and offset compaction projects. In the construction business, safety is key. With an arm swing of 155 degrees, the AVR is capable of compaction on either side of the machine, outside of the wheel or track base, while leaving the host machine on flat, stable, and level ground. Many customers utilize this flexibility to take their AVR far beyond just road shouldering projects. Other utilization of the AVR includes trench backfill, tight areas, and slope compaction. The three axes of movement that allow this flexibility are boom swing, boom lift and vibratory roller rotation. With this much flexibility you can find the perfect position for the unit and visibility regardless of your host machine!

The intended use of the AVR machine is to allow safe rolling and compaction of aggregate, asphalt, reclaimed asphalt pavement (RAP), and soil. The operator of the AVR must remain seated in the host machine on level and stable ground. The host machine must meet all requirements outlined in this manual and have all safety systems, including the operator presence switch, working properly. All other use is prohibited by Road Widener.

Manufacturer's Limited Warranty terms are available if the attachment is registered within 60 days of delivery. Registration can be completed online at **www.roadwidenerllc.com**.

Please watch our operational and instructional video for important instructions and tips on how to operate your offset vibratory roller. The video can be found on our website under the RESOURCES page.

US Patent #s 10,087,587 and 10,689,812
Australia Patent # 2015369653
European Patent # 3,237,321

Patents are available on the following website:

https://www.roadwidenerllc.com/patents/

GENERAL INFORMATION

Read This Manual Prior to Operation

This manual contains safety information, operating instructions, lubrication and maintenance procedures, and a spare parts list. Read this manual carefully to learn how to operate and perform service on the attachment correctly. Failure to do so could result in personal injury or equipment damage. In addition to the manual, a service and operation video is available at www.roadwidenerllc.com and must be viewed before operating the attachment.

This manual should be kept nearby and be readily accessible to the operator at all times. If this manual is lost or damaged, contact your authorized Road Widener dealer or Road Widener LLC immediately to order a replacement.

Some photographs or illustrations in this manual may show details or attachments that may be different from your attachment. Guards and covers may have been removed for illustrative purpose. Guards should never be removed during operation.

Operating procedures in this manual are basic. They help with developing the skills and techniques required to operate the attachment efficiently and economically. Skill level and techniques will develop as the operator gains more knowledge of the attachment and its capabilities.

Contact Information

For additional information on Road Widener, go to www.roadwidenerllc.com. To ask a service or sales question, or to order spare parts, contact Road Widener at:

Road Widener LLC
514 Wells Street, Suite 1W
Delafield, WI 53018
www.roadwidenerllc.com
Sales E-mail: sales@roadwidenerllc.com
Parts E-mail: parts@roadwidenerllc.com
Phone: 844-494-3363

Limited Warranty

NOTE: To be eligible for coverage under this Limited Warranty (including with respect to any products, parts or labor), you must complete and return to Road Widener the Warranty Registration for this product. The Warranty Registration can be found on Road Widener's website (www.roadwidenerllc.com). Any questions or requests for assistance in completing the Warranty Registration must be directed to Road Widener's Parts Department.

WARRANTY

Subject to the limitations, exclusions, and claims procedures set forth herein, **ROAD WIDENER LLC** warrants to the first original purchaser from **ROAD WIDENER LLC** or its authorized distributor that this product will be free from material defects in material and workmanship under normal use and service during the warranty period.

If a material defect in material or workmanship is found, you must notify your authorized **ROAD WIDENER** distributor or **ROAD WIDENER LLC** in writing during the warranty period. **ROAD WIDENER LLC** or an authorized distributor will, at **ROAD WIDENER LLC**'s option, repair or replace the product or any part of the product that **ROAD WIDENER LLC** determines has failed to conform to the warranty during the warranty period, or refund to the purchaser the purchase price received by **ROAD WIDENER LLC** for the product or part in question.

The warranty period will begin upon initial delivery of the product by **ROAD WIDENER LLC** or its authorized distributor to the first original purchaser, as such delivery date is identified in the invoice to the purchaser, and will expire (12) months following such delivery date.

Replacement parts manufactured by **ROAD WIDENER LLC** are covered for the remainder of the warranty period applicable to the product in which such parts are installed. **ROAD WIDENER LLC** reserves the right for it or its authorized distributor to utilize reconditioned, refurbished, repaired, or remanufactured products or parts in the warranty replacement process. Such products and parts will be reasonably comparable in function and performance to an original product or part.

ROAD WIDENER LLC reserves the right to repair any part in lieu of replacing it. The purchaser shall, at its expense and risk, return defective products or parts, after pre-authorization by **ROAD WIDENER LLC**, to the distributor or manufacturing facility specified in such pre-authorization. This Limited Warranty covers only repair or replacement at such facility and does not include field service, travel, or other expenses, and does not include normal maintenance of products. Parts not manufactured by **ROAD WIDENER LLC** and purchased by **ROAD WIDENER LLC** or an authorized distributor are not warranted by **ROAD WIDENER LLC** but may carry a warranty from the manufacturer. **ROAD WIDENER LLC** will pass the warranty on to the purchaser if permitted by the manufacturer and reasonably practicable.

GENERAL INFORMATION

The purchaser is responsible for the costs and risks of transporting the product or part from such facility following review of the warranty claim or warranty service.

LIMITATIONS

1] **ROAD WIDENER LLC** has no obligation for any defects caused in whole or in part by misuse, abuse, abnormal use, neglect, tampering, misapplication, negligence, damage in transit, damage due to environmental or natural elements or accidents. **ROAD WIDENER LLC** has no obligation for failure to maintain, store, install, or use products or parts in accordance with **ROAD WIDENER LLC**'s most current operating instructions.

2] **ROAD WIDENER LLC** has no obligation under this Limited Warranty if there has been unauthorized service or alteration of the product or parts.

3] **ROAD WIDENER LLC** has no obligation under this Limited Warranty for defects caused in whole or in part by any replacement parts or attachments not manufactured by or approved by **ROAD WIDENER LLC**.

4] **ROAD WIDENER LLC** has no obligation under this Limited Warranty if there has been a failure to conduct normal maintenance and operating service including, without limitation, providing lubricants, fluids, inspections, or adjustments.

5] **ROAD WIDENER LLC** has no obligation under this Limited Warranty if there has been unreasonable delay, as determined by **ROAD WIDENER LLC**, in making the applicable products or parts available upon notification of a service notice ordered by same.

6] This Limited Warranty sets forth the original purchaser's sole remedy, and **ROAD WIDENER LLC's** sole obligation, in connection with the **ROAD WIDENER LLC** product covered by the Limited Warranty. **ROAD WIDENER LLC** will not reimburse the purchaser for any expenses incurred by the purchaser in repairing or replacing products or parts unless an authorized representative of **ROAD WIDENER LLC** approves such costs in advance in writing. Any oral or written description of a product or part is for the sole purpose of identifying it and shall not be construed as an express warranty. Any assistance **ROAD WIDENER LLC** or its authorized distributor provides outside the terms or limitations of this Limited Warranty does not constitute a waiver of such terms or limitations, or extend or revive the warranty. The limitations in this Limited Warranty apply notwithstanding any failure of the essential purpose of the limited remedies.

7] This Limited Warranty extends only to the first original purchaser, ***and is not transferable.***

8] If any provision of this Limited Warranty shall be determined to be invalid or unenforceable under any applicable law, such provision shall be deemed null and void to the extent of such invalidity or unenforceability and the remainder of the Limited Warranty shall continue in full force and effect.

9] Used products or used parts of any kind including, without limitation, products that have been used personally or in demonstration by an authorized distributor, are not covered by this Limited Warranty, and there is **NO WARRANTY** on such products or parts.

10] This Limited Warranty does not apply if defects are caused in whole or in part by paint finish, corrosion, controller keyboards, or consumables including, without limitation, fluids, filters, belts, hoses, and replaceable teeth.

11] This Limited Warranty does not apply if the claim is due in whole or in part to normal wear and tear or operation of the product outside **ROAD WIDENER LLC**'s recommended operating parameters.

OTHER LIMITATIONS

The purchaser must satisfy the following obligations in order to be eligible for coverage by this Limited Warranty. Prior to using or permitting use of the products, the purchaser shall determine the suitability of the products for the intended use and the purchaser assumes all risk and liability whatsoever in connection therewith. The purchaser shall familiarize itself with and comply with all laws and regulations now or hereafter in effect and applicable to the purchase, transport, use, supply, storage, sale, offer for sale, lease, offer for lease, and/or disposal of the products. The purchaser shall maintain and provide to **ROAD WIDENER LLC** on request complete and accurate service records for products with respect to which the purchaser makes a warranty claim. The purchaser shall cause any installation to be performed by an authorized distributor of **ROAD WIDENER LLC** in accordance with product specifications, including torque.

THE EXPRESS WARRANTY DESCRIBED HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE. ROAD WIDENER LLC DISCLAIMS AND EXCLUDES ALL OTHER EXPRESS AND IMPLIED WARRANTIES.

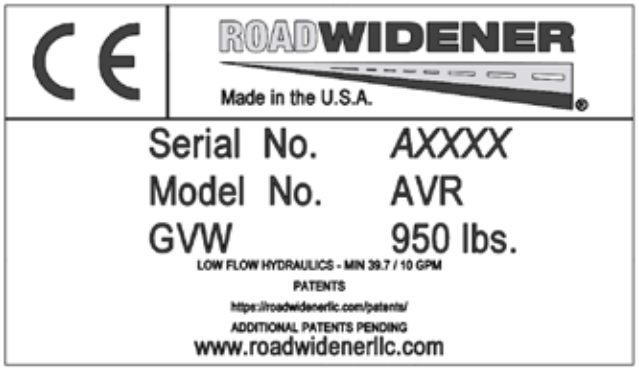
ROAD WIDENER LLC SHALL NOT BE LIABLE TO THE PURCHASER, OR TO ANYONE CLAIMING UNDER THE PURCHASER, FOR ANY OTHER REMEDIES, OBLIGATIONS OR LIABILITIES IN CONNECTION WITH PRODUCTS, THEIR USE OR PERFORMANCE INCLUDING, WITHOUT LIMITATION, REMEDIES, OBLIGATIONS, OR LIABILITIES ARISING OUT OF BREACH OF CONTRACT OR WARRANTY, NEGLIGENCE, OR OTHER TORT OR ANY THEORY OF STRICT LIABILITY, WITH RESPECT TO THE PRODUCTS OR ROAD WIDENER LLC'S ACTS OR OMISSIONS OR OTHERWISE. No sales representative, distributor or other party is authorized to modify or add to this Limited Warranty in any manner without **ROAD WIDENER LLC**'s prior written permission. No sales representative, distributor or other party is authorized to bind **ROAD WIDENER LLC** to any representation

GENERAL INFORMATION

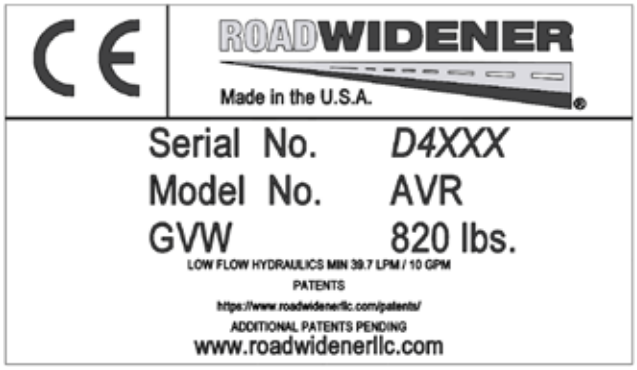
or warranty concerning the products except as specifically set forth in this Limited Warranty.

IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT OR WARRANTY OR ALLEGED NEGLIGENCE OR LIABILITY WITHOUT FAULT, SHALL ROAD WIDENER LLC BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF PROFIT OR REVENUE, COST OF CAPITAL, COST OF SUBSTITUTED OR REPLACEMENT EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, LABOR COSTS OR CLAIMS OF CUSTOMERS, PURCHASERS OR LESSEES FOR SUCH DAMAGES, EVEN IF ROAD WIDENER LLC WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL ROAD WIDENER, LLC BE LIABLE FOR AMOUNTS IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT RECEIVED BY ROAD WIDENER LLC.

Model and Serial Tag



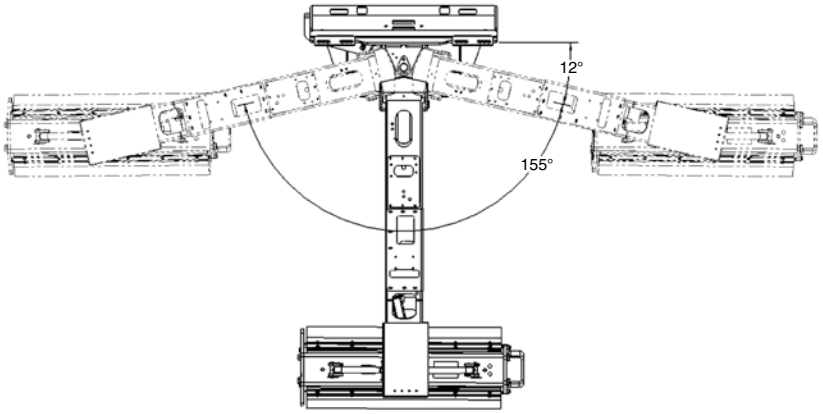
The arm model and serial number tag is located on the left side of the arm. Refer to this tag when needing any warranty or service assistance. This will help ensure that the correct part is ordered.

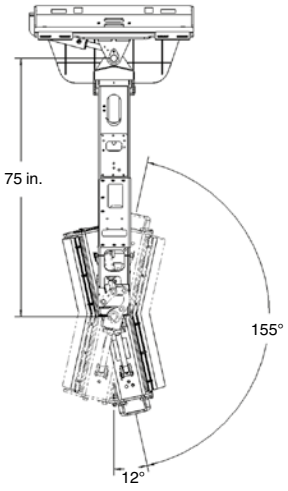


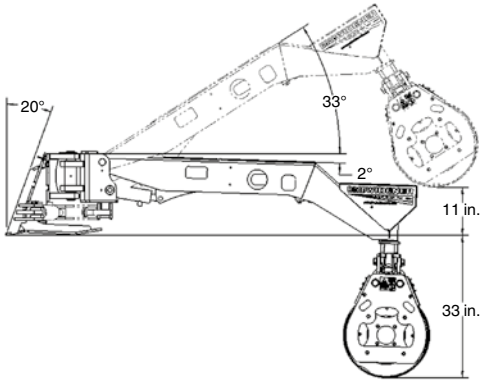
Looking down at the drum, the drum model and serial number are on the top plate. Refer to this tag when needing any warranty or service assistance. This will help ensure that the correct part is ordered.

GENERAL INFORMATION

Attachment Specifications







ARM WEIGHT LB (KG)	DRUM WIDTH FT (CM)	DRUM MASSV LB (KG)	MIN. CENTRIFUGAL FORCE LBF (KGF)	MIN. TOTAL APPLIED FORCE LBF (KGF)	VPM
950 (431)	2' (61.0)	570 (259)	1513 (686)	3016 (1368)	2500-3500
950 (431)	3' (91.4)	713 (323)	1513 (686)	3110 (1410)	2500-3500
950 (431)	4' (121.9)	819 (371)	1513 (686)	3196 (1449)	2500-3500

OFFSET VIBRATORY ROLLER	
Typical Working Pressure (Host Machine)	3,000 psi (207 bar)
Minimum Flow rate (Host Machine)	10 GPM (37.9 l/min)
Hydraulic Fittings	SAE
Host Machine Rated Operating Capacity (ROC)	2,100 lb (953 kg)
Maximum Size of Material to be Rolled and/or Compacted	2 in. (50.8 mm)
Optimum Traveling Speed Range While Laying Down Road-Widening Material	0.5 to 1.5 mph (0.8 to 2.4 km/hr)

Optional Equipment

Some optional equipment can be ordered from Road Widener for your specific job if needed.

Spray Bar Options

If the roller will be compacting asphalt, or other materials that may stick to the drum, a Water Spray Bar option is available. The option either comes with (2) 7-gallon water tanks or can hook up to an existing tank on the host machine. Regardless of the tank option, all systems have (3) spray nozzles to evenly coat the drum with water during operation. Contact your Road Widener Distributor/Dealer for installation instructions based on the system you choose.

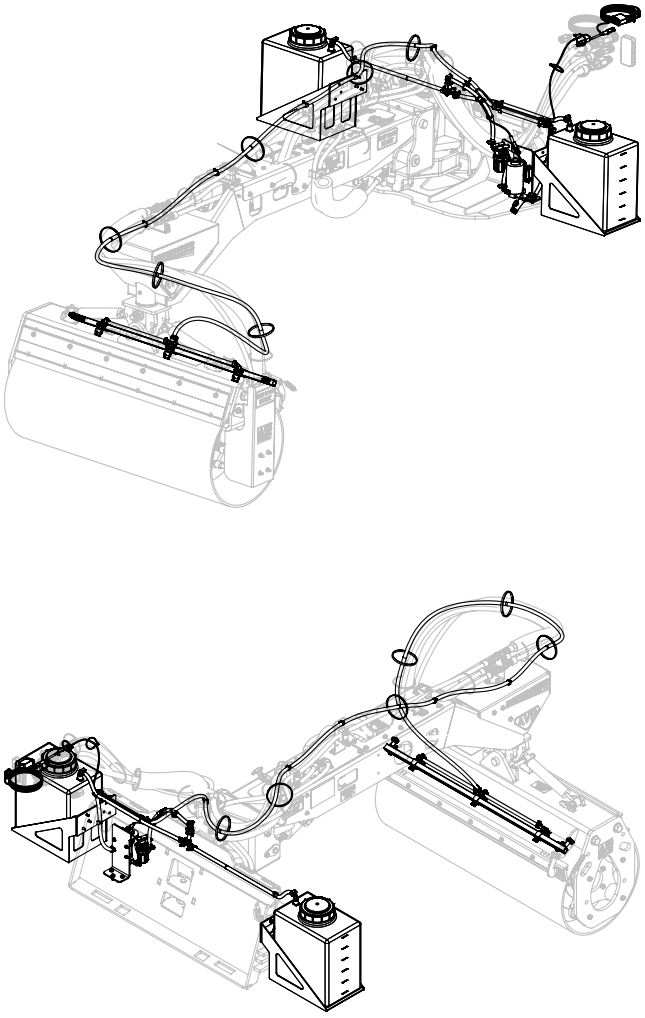


Figure 1: Water Spray Bar System with Tanks

GENERAL INFORMATION

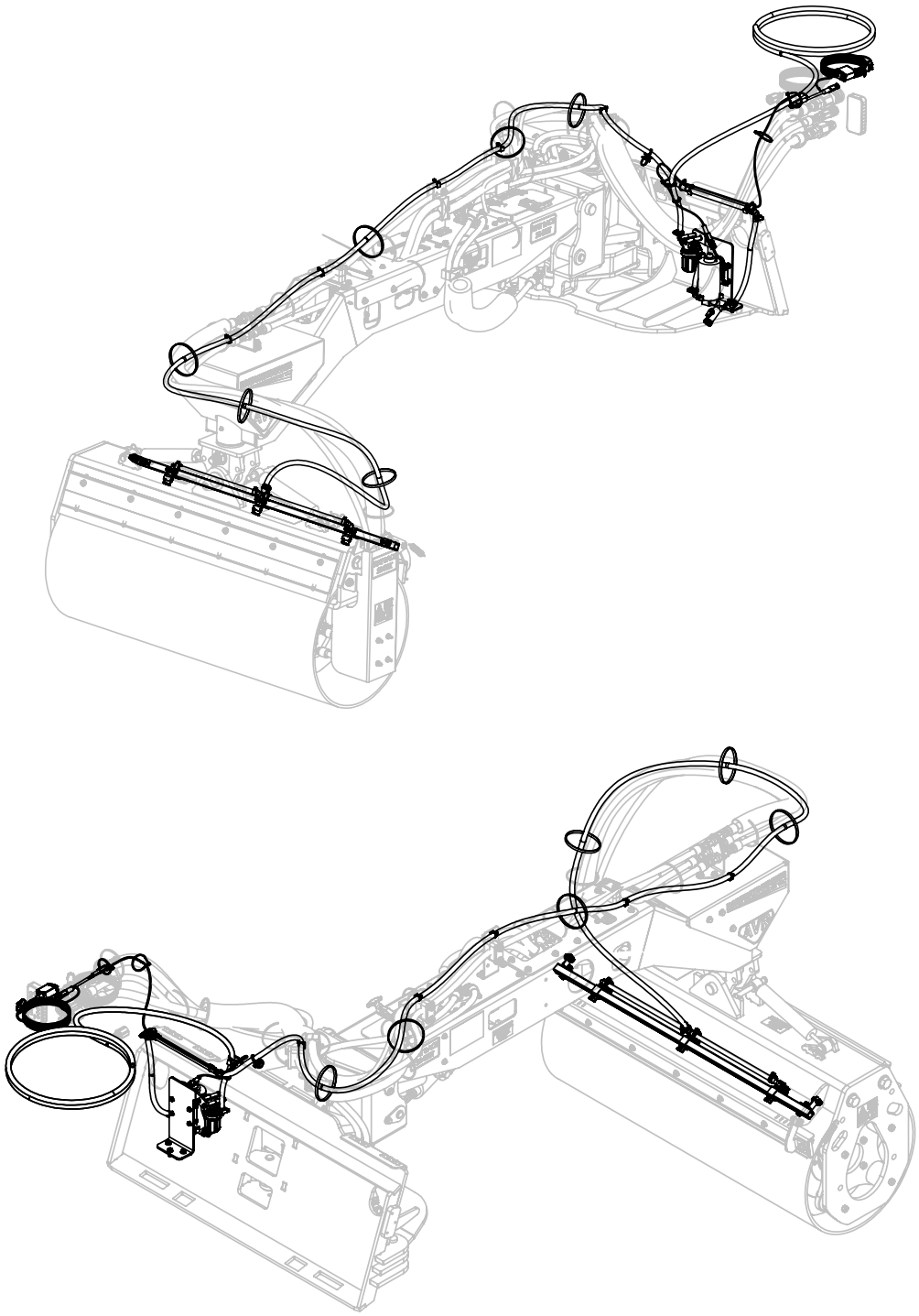


Figure 2: Water Spray Bar System without Tanks

Water Spray Bar Service Items

When using the Water Spray Bar system on your Offset Vibratory Roller, check several items before each use. Check the main filter/screen on the main frame, inline with the water pump inlet line, and the screen/check valve in each of the individual spray heads. You can easily inspect the main screen through the clear housing. To inspect the screens in the nozzles, twist and remove the plastic outer caps, remove the spray nozzle, and locate the screens behind the nozzles. Inspect each screen and clean it as required to allow for the full flow of water in the system. If the screen is damaged or too dirty to clean, please contact your Road Widener Distributor/Dealer for replacement parts.

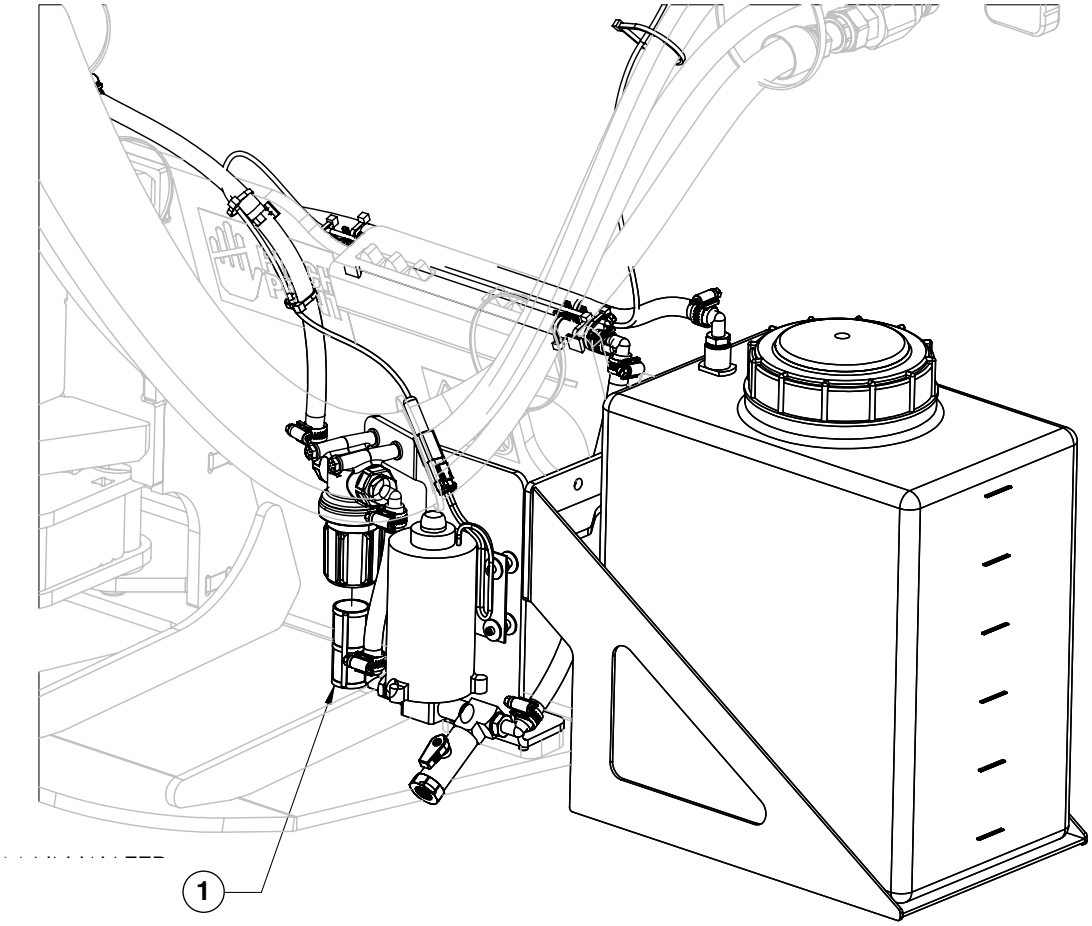


Figure 3: Water Spray Bar Service Items

1. **Main Water Screen Element**

GENERAL INFORMATION

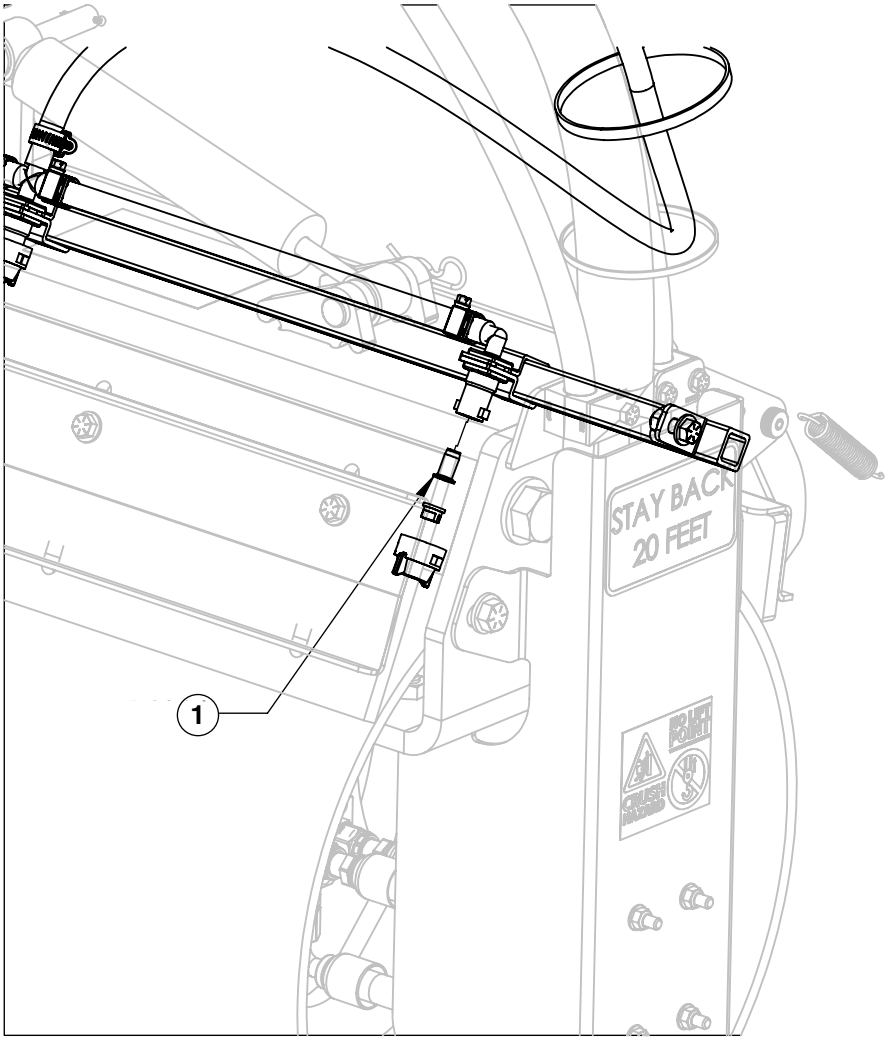


Figure 4: Individual Spray Nozzle Screens

1. **Individual Nozzle Screen**

Pairing the Remote Control

NOTE: Road Widener recommends that the 12-volt DC accessory socket is a 10-amp continuous solid state connection. Using a lower amperage 12-volt DC accessory socket may cause the machine to not function.

Your remote should arrive paired and remain paired even when batteries are replaced. **Only on a rare instance will you have to pair the remote, such as if the remote has been replaced.**

The pairing procedure may require an assistant to power up the vibratory roller attachment while another person works the remote.

1] Make sure the batteries in the remote are new and fully charged.

2] All power must be off. Make sure the remote is turned off and the 12-volt DC power plug from the vibratory roller is not connected.

Figure 5: Remote Buttons and LEDs

1. **Red Power OFF Button**
2. **Green Power ON Button**
3. **Error LED**
4. **RX LED**

GENERAL INFORMATION

3] With the remote power off, press and hold the associate button and the green power ON button simultaneously. The RX and ERR LEDs will illuminate solid.

Figure 6: Associate/Learn Button

1. **Associate/Learn Button**
2. **Power ON Button**
3. **TX LED**
4. **RX LED**

Figure 7: Associate/Learn Button

1. **Associate/Learn Button**

4] Continue holding the associate and green buttons.

5] The TX, RX, ERR and BAT LEDs will flash on and off and then just the TX LED will flash.

6] Continue holding both the associate and green buttons, and plug in the power source.

7] The TX, RX, ERR and BAT LEDs will flash on and off.

Figure 8: TX and RX LEDs Flashing

8] Release the associate/learn button. When properly paired, the TX and RX LEDs will be flashing.

Figure 9: Red LED

9] When the remote is paired the red LED on the machine will be lit.

NOTE: If the LED does not light, check for proper pairing or that the correct 12-volt DC power is supplied for base unit.

GENERAL INFORMATION

Unpairing the Remote Control

If pairing has occurred successfully (indicated by RX and TX LEDs flashing) and the remote is not functioning, on rare occasions nearby signal interferences may require frequency change. If you feel the remote is paired but not functioning, please perform the unpairing process followed by the pairing process.

NOTE: Road Widener recommends that the 12-volt DC accessory socket is a 10-amp continuous solid state connection. Using a lower amperage 12-volt DC accessory socket may cause the attachment to not function.

The unpairing procedure may require an assistant to power up the vibratory roller attachment while another person works the remote.

1] Make sure the batteries in the remote are new and fully charged.

2] All power must be off. Make sure the remote is turned off and the 12-volt DC power plug from the Road Widener is not connected.

Figure 10: Remote Buttons and LEDs

1. **Red Power OFF Button**
2. **Green Power ON Button**
3. **Error LED**
4. **RX LED**

3] With the remote power off, press and hold the green power ON button and the dissociate button simultaneously. Initially all 6 LEDs (TX, RX, ERR, Bat, Conv, and Float) will illuminate. They will all stay on momentarily and then only the TX will illuminate solid.

Figure 11: Dissociate Button

1. **Dissociate Button**

4] Continue holding the dissociate button and the green power ON button while plugging in the 12-volt DC power cord into a 12-volt DC power source.

Figure 12: TX and RX LEDs Flashing

5] Release the dissociate button. When properly paired, the TX and the RX LEDs will be flashing.

6] The unpairing is now complete.

GENERAL INFORMATION

Figure 13: Red LED

7] When the remote is unpaired the red LED on the attachment will not be lit.

Hardware Torque Chart

Use this chart when tightening hardware to the proper torque value.

DUE TO VIBRATION - ALL NUTS AND BOLTS TO UTILIZE BLUE 243 LOCTITE. FAILURE TO USE LOCTITE MAY RESULT IN LOOSE HARDWARE AND OR DAMAGE TO MACHINE.

U.S. Standard Cap Screw Torque Values

SAE GRADE NUMBER	GRADE 8		
SIZE/ THREADS PER INCH	TORQUE in.-lb (N·m)		
THREADS	DRY	OILED	PLATED
1/4 – 20	142 (16)	133 (15)	124 (14)
1/4 – 28	168 (19)	159 (18)	133 (15)
5/16 – 18	292 (33)	265 (30)	230 (26)
5/16 – 24	327 (37)	292 (33)	265 (30)
3/8 – 16	531 (60)	478 (54)	416 (47)
	ft-lb (N·m)		
3/8 – 24	49 (66)	44 (60)	39 (53)
7/16 – 14	70 (95)	63 (85)	56 (76)
7/16 – 20	78 (106)	70 (95)	62 (84)
1/2 – 13	105 (142)	95 (129)	84 (114)
1/2 – 20	120 (163)	108 (146)	96 (130)
9/16 – 12	155 (210)	140 (190)	124 (168)
9/16 – 18	170 (230)	153 (207)	136 (184)
5/8 – 11	210 (285)	189 (256)	168 (228)
5/8 – 18	240 (325)	216 (293)	192 (260)
3/4 – 10	375 (508)	338 (458)	300 (407)
3/4 – 16	420 (569)	378 (513)	336 (456)
7/8 – 9	605 (820)	545 (739)	484 (656)
7/8 – 14	675 (915)	608 (824)	540 (732)
1.0 – 8	910 (1,234)	819 (1,110)	728 (987)
1.0 – 14	990 (1,342)	891 (1,208)	792 (1,074)

NOTE:
- Dry torque values are based on the use of clean, dry threads.
- Oiled torque values have been reduced by 10% when engine oil is used as a lubricant.
- Plated torque values have been reduced by 20% for new plated cap screws.
- Oiled torque values should be reduced by 10% from dry when nickel-based antiseize

GENERAL INFORMATION

EC Declaration of Conformity

EC DECLARATION OF CONFORMITY

Manufacturers Name: Road Widener LLC

Manufacturers' Address: 514 Wells Street, Suite 1W,
Delafield, WI 53018.

Declare that the machinery described below complies with applicable health and safety requirements of Part 1 of Annex 1 of the Machinery Directive 2006/42/EC. Confidential technical documentation has been compiled in accordance with Part A of Annex VII of Machinery Directive 2006/42/EC and is available to European national authorities on written request only. If a request is received, documentation will be transmitted either electronically and or by post.

Description: Road Widener Offset Vibratory Rollers

Model Number: AVR

Sizes: Roller widths 2 feet, 3 feet and 4 feet.

Serial Number: .....(As applicable)

The following standards have either been referred to or been complied with in part or in full as relevant:

EN ISO 12100: 2010	Safety of machinery	-	Safety of machinery - General principles for design - Risk assessment and risk reduction.
EN ISO 13849-1:2015	Safety of machinery	-	Safety-related parts of control systems - Part 1: General principles for design.
EN 349:1993+A1:2008	Safety of machinery	-	Minimum gaps to avoid crushing of parts of the human body.)
EN 13857:2008	Safety of machinery	-	Safety distances to prevent hazard zones being reached by upper and lower limbs.
EN ISO 14120:2015	Safety of machinery	-	Guards - General requirements for the design and construction of fixed and movable guards.
EN 614-1:2006+A1:2009	Safety of machinery	-	Ergonomic design principles
EN 4413:2010	Hydraulic fluid power	-	General rules and safety requirements for systems and their components.
EN ISO 13732-1:2008	Safety of machinery	-	Ergonomics of the thermal environment - Methods for the assessment of human responses to contact with surfaces - Part 1.
ISO 3744:2010	Acoustics	-	Determination of sound power levels of noise sources using sound pressure - Engineering method in an essentially free field over a reflecting plane.

Name and place of signing of Responsible Person

Name Lynn Marsh ..... (Typed)
Address 514 Wells Street ..... (Typed)
Suite 1-W ..... (Typed)
Delafield, WI 53018 ..... (Typed)

Position President ..... (Typed)
Date 07/28/2021 ..... (Typed)
Signature Lynn Marsh .....

EC REP
QNET BV
Kantstraat 19
NL-5076HP Haaren
The Netherlands

Road Widener LLC, 514 Wells Street, Suite 1W, Delafield, WI 53018 www.roadwidenerllc.com
Sales E-mail: sales@roadwidenerllc.com Parts E-mail: parts@roadwidenerllc.com Phone Number: 844-494-3363

2 SAFETY

This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alert symbol.

The words DANGER, WARNING, CAUTION and NOTICE are used throughout this manual to highlight important information.

⚠ DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Indicates a situation which can cause damage to the offset vibratory roller, personal property, and/or the environment, or cause the equipment to operate improperly.

NOTE: Indicates a procedure, practice or condition that should be followed in order for the Road Widener to function in the manner intended.

⚠ WARNING

Before starting and operating the offset vibratory roller, be sure to read and understand the content and safety messages within this manual as well as the safety labels on the offset vibratory roller. The operator of the host machine is responsible for safe operation of the offset vibratory roller. Be sure all potential users of the offset vibratory roller also understand these instructions.

Always keep your offset vibratory roller in proper working condition.

SAFETY

⚠ WARNING

It is the operator's responsibility to read and understand the host machine safety messages and proper operation and capabilities. Only qualified and responsible operators should be permitted to operate the machinery. Prior to operating the host machine, the operator should verify that all host machine safety functions are active and operating properly, including the seat pad switch.

⚠ WARNING

Know the total rated operating capacity of the host machine which you will be attaching to the Road Widener offset vibratory roller. The total operating capacity should exceed the weight of the Road Widener offset vibratory roller.

⚠ WARNING

Never operate the attachment while under the influence of alcohol or drugs. Their effect on vision and judgment make operating the attachment dangerous.

⚠ WARNING

Never operate the attachment with the guards missing or damaged. Tampering with or modifying the guards may result in injury or premature wear on the attachment.

⚠ WARNING

Before operating the attachment, read the host machine operation manual and know what the acceptable grade requirements are. The Road Widener offset vibratory roller will usually add to the host machine's stability.

⚠ WARNING

Never allow anyone to sit or stand on the offset vibratory roller while in operation.

⚠ WARNING

The offset vibratory roller should only be operated using the remote control by the host machine operator who is properly seated in the host machine cab.

SAFETY

⚠ WARNING

ALWAYS wear the appropriate personal protective equipment as required by the task at hand, including but not limited to:

- Relatively tight and belted clothing
- Safety gloves
- Safety shoes/boots
- Safety eyeglasses/goggles/shields
- Hearing protection, ear plugs
- Head protection, hard hats

Operating the attachment requires the full attention of the operator. Do not wear radio or music headphones that may interfere with jobsite communications or monitoring the attachment in operation.

⚠ WARNING

Use extreme caution when near rotating parts. Rotating parts can entangle hands, feet, hair, clothing and/or accessories. Traumatic amputation or severe laceration can result.

- Keep hands and feet away from rotating parts.
- Tie up long hair and remove jewelry.
- Operate equipment with all guards in place.
- DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.

Stay clear of all moving parts, drum, arm and host machine when the offset vibratory roller is in operation.

NOTICE

Always be environmentally responsible.

- *Follow the guidelines of the EPA or other governmental agencies for the proper disposal of hazardous materials. Consult the local authorities or reclamation facility.*
- *NEVER dispose of hazardous materials irresponsibly by dumping them into a sewer, on the ground, or into groundwater or waterways.*
- *Failure to follow these procedures may seriously harm the environment.*

NOTICE

Inspect all hoses, fittings and hydraulic components on both the Road Widener offset vibratory roller and the host machine before operation of the hydraulic system. Repair any problems that are discovered.

SAFETY

Safety Decals

Read and understand all machines' safety decals. Keep safety decals in good condition. Replace all missing or damaged safety decals. Replacement safety decals can be ordered from Road Widener LLC.

Safety decals located on your attachment contain important and useful information that will help you operate your equipment safely. To ensure that all decals remain in place and in good condition, follow these instructions:

- Keep decals clean. Use soap and water, not mineral spirits, abrasive cleaners or other similar cleaners that will damage the decal.
- Replace any damaged or missing decals. When attaching decals, the surface temperature of the metal must be at least 40°F (5°C). The surface must also be clean and dry. When replacing an attachment component with a decal attached, replace the decal also.

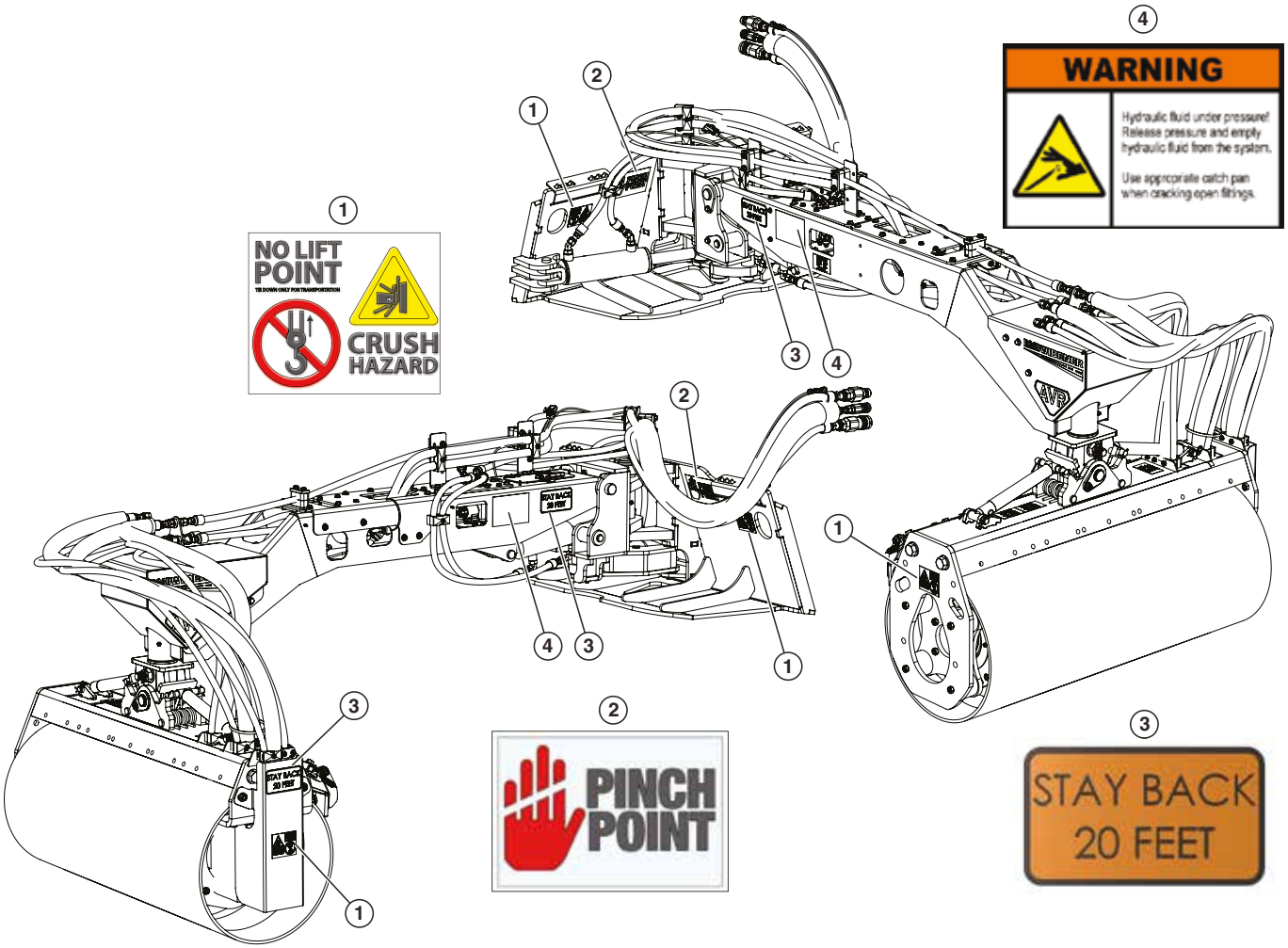


Figure 14: Locations of Safety Decals

Control Area Safety

- Understand operation and safety controls for both the host machine and the offset vibratory roller attachment
- Wear a high-visibility vest or jacket at all times
- Wear the correct Personal Protection Equipment (PPE) as required at all times
- Maintenance should never be performed during operation
- Maintenance should only be performed on a well lit, flat, level concrete surface with the attachment off and disconnected from the power source
- Never let anyone sit or stand on the offset vibratory roller attachment during operation

⚠ DANGER

Never allow an operator or bystander in the control area (shown in orange) during the operation of the offset vibratory roller.

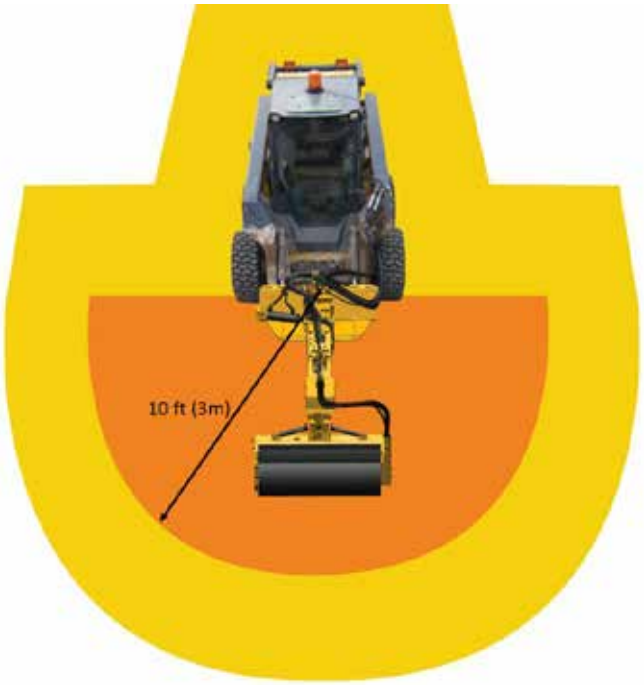


Figure 15: Safety Area

Road Widener recommends that all ground personnel and bystanders stay clear of the machine by 10 ft (3 m) (shown in yellow) during the operation of the machine.

Zones are not visually shown to scale. Always abide by the published values.

The operator of the host machine and the offset vibratory roller attachment should be familiar with the operation of both machines. The machines should always be stopped before performing any adjustments or allowing anyone to enter the control area.

JOBSITE PREPARATION 3

⚠ WARNING

The host machine being used with the offset vibratory roller must have the capability of lifting a minimum of 2100 lb (953 kg). Using too small of a host machine could cause loss of control and possible machine rollover. Always observe host machine specifications for grades and operation parameters found in the host machine's manual.

⚠ WARNING

Never allow anyone to be under or in the area of the offset vibratory roller when it is being unloaded from the trailer.

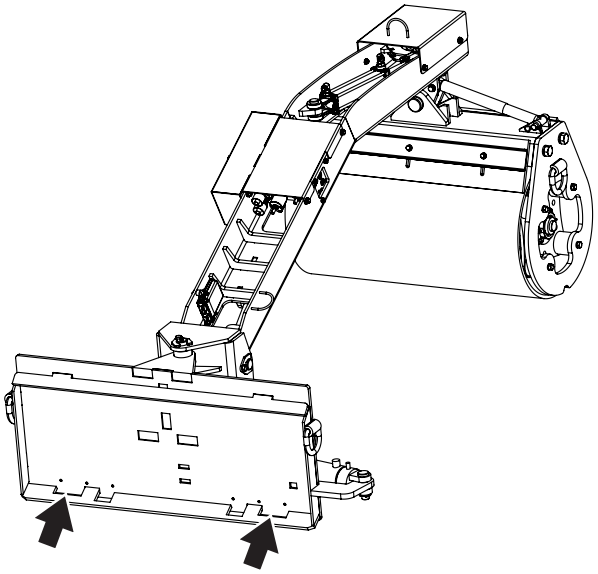


Figure 16: Universal Mounting Pad on Offset Vibratory Roller (Arrows Indicate Host Machine Attachment Points)

1] Raise the boom on the host machine and insert the host machine pads into the universal mounting pad on the offset vibratory roller.

JOBSITE PREPARATION

2] Depending on your host machine model, you may have hydraulic locking pins or manual locking pins. Make sure the locking pins are locked into the universal mounting plate tabs on the offset vibratory roller before moving the machine.

3] Slowly lift the offset vibratory roller up off the trailer and slowly back away from the trailer.

4] As soon as the offset vibratory roller clears the trailer, lower the offset vibratory roller to the ground.

5] Shut off the host machine and apply the parking brake.

6] Clean any dirt or debris from the male and female quick couplers on the offset vibratory roller and the host machine.

Figure 17: Hydraulic Lines Connecting to Host Machine from Offset Vibratory Roller

1. **Female Quick Couple**
2. **Male Quick Couple**
3. **Case Drain Line**

7] Connect the hydraulic lines from the offset vibratory roller to the quick coupler ports on the host machine. Make sure the connections are secure.

NOTICE

The host machine must be equipped with an additional case drain line. If the case drain line is not connected, premature failure of the hydraulic motor seals will occur.

NOTE: The vibratory roller will come with an additional male and female adapter to use if required to connect the hoses to your host machine.

Figure 18: 12-volt DC Power Cord

JOBSITE PREPARATION

NOTE: Road Widener recommends that the 12-volt DC accessory socket is a 10-amp continuous solid state connection. Using a lower amperage 12-volt DC accessory socket may cause the host machine to not function.

8] Apply dielectric grease to the tip of the plug and plug in the 12-volt DC power cord into a 12-volt DC power socket on the host machine.

NOTE: If experiencing problems with the remote during operation, refer to the remote operation tips sticker, which is located on the back of the remote.

Figure 19: Amber Battery Status LED

9] When the batteries for the remote are charged the battery status amber LED will be off.

10] When the battery charge status is at 2.1 volts DC the amber battery LED will begin to flash, indicating a low battery condition. The remote can still be used, but the batteries should be replaced as soon as possible.

11] When the battery charge status is at 2.0 volts DC the amber battery LED will turn on solid and the remote will begin to power down and a loss of signal will occur. The batteries must be replaced immediately. To replace the batteries See “Replacing Remote Battery” on page 36.

4 OPERATION

⚠ WARNING

Always operate the host machine on a flat, level surface when the offset vibratory roller is attached. If on uneven ground the host machine could roll over. Always observe host machine specifications for grades and operation parameters found in the host machine's manual.

1. Associate/Learn Button
2. Power OFF Button
3. Dissociate Button
4. Float-Activated LED
5. Vibration-Activated LED
6. Boom Down Button
7. Boom Swing Right Button
8. Roller Rotate Right Button
9. Roller Down Pressure Button
10. Power ON Button
11. Roller Vibrator Button
12. Roller Rotate Left Button
13. Boom Swing Left Button
14. Boom Up Button

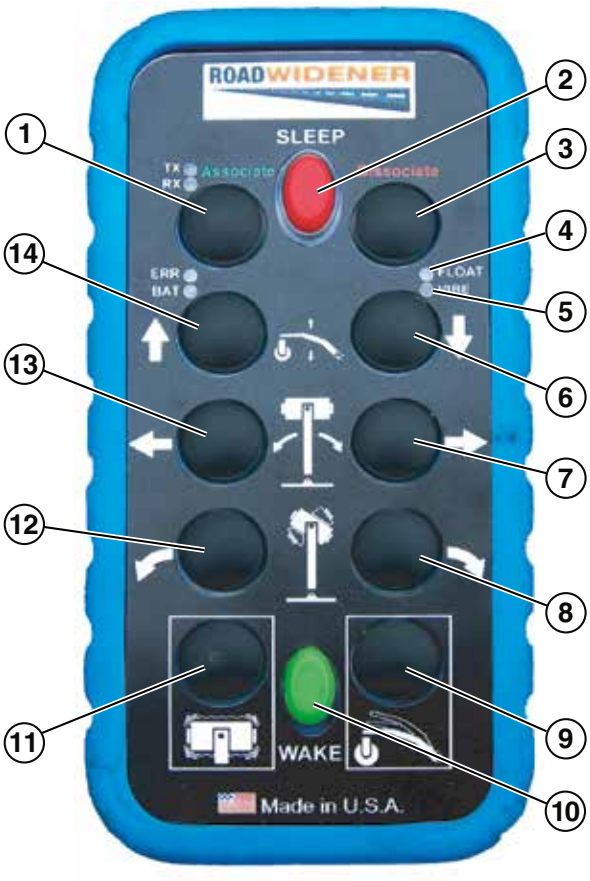


Figure 20: Remote Control Buttons for Operation

OPERATION

⚠ WARNING

The offset vibratory roller should only be operated using the remote control by the host machine operator who is properly seated in the host machine cab.

1] Turn the hydraulic flow on from the host machine.

NOTE: The hydraulic system only flows in one direction. There are check valves in the system that will not allow flow in the wrong direction. If the flow control switch from the host machine is activated and there is not any hydraulic power, the hydraulic flow may be in the wrong direction. If this happens reverse the flow from the host machine. If the host machine does not have the capability to reverse the flow, the hose fittings may need to be reversed.

2] Push the "boom up" button to raise the arm.

NOTE: Depending on how high the boom is raised there may be a few-second delay before the boom begins to lower.

3] Press the "boom down" button to lower the boom.

NOTE: If the float LED is lit (machine beacon light flashing), the boom will not lower until taken out of float mode. Press the float mode button to take machine out of float mode.

4] To swing the boom to the right, press the "boom swing right" button.

5] To swing the boom to the left, press the "boom swing left" button.

6] To rotate the drum to the right, press the "rotate roller right" button.

7] To rotate the drum to the left, press the "rotate roller left" button.

8] To turn the vibrator on, press the "roller vibrator" button. The vibratory LED light will be lit when the vibrator is on.

Operating Tips

HYDRAULIC OIL FLOW

The offset vibratory roller requires a relatively low amount of hydraulic oil flow from the host machine to function properly. Under no circumstances should the host machine be operated in high-flow hydraulic mode. Operating in high-flow mode will result in high hydraulic oil temperatures. The host machine should always be operated in standard hydraulic flow mode and the engine speed can be set between 1,500 and 1,800 RPM to conserve fuel. Running the host machine engine faster than 1,800 RPM will not improve the performance of the offset vibratory roller.

ARM AND ROLLER POSITION

Ideally the attachment is operated with the swing pivot pin in the arm as close to vertical as possible. The top of the arm should be close to parallel with the ground with the drum pivot pin as vertical as possible. See Figure 17.

Figure 21: Arm and Roller Operating Position

The operator will seldom need to adjust the arm position during operation. The arm position will generally be set at the beginning of a compaction pass, but can be moved slightly during operation.

TRAVELING AND ROTATING THE DRUM LEFT AND RIGHT

The operator will gain experience and become acclimated with drum rotate speed. The drum may need to be rotated slightly when you are turning the host machine left or right. While the operator may steer the drum while the host machine is moving forward, it should be noted that variations in compaction surface, texture or slopes may influence the movement of the roller. At times, it may become necessary to stop compacting and raise the host machine lift arms to rotate the roller arm and/or drum. Pay attention to changing conditions during operation.

With the arm in a raised drum suspended position, position the arm to the desired offset position. Depending on the host machine wheel base, you may be able to run the arm outside the wheel base to avoid tracks on the compacted area. Rotate the suspended drum so that the drum length is approximately perpendicular with the direction of travel.

When traveling forward, the drum should be positioned as shown in Figure 18.

Figure 22: Correct Drum Position

Do not position the drum as shown in Figure 19 when traveling.

Figure 23: Incorrect Drum Position

OPERATION

The arm and drum cylinders are pre-set to protect the hardware of your host machine. Heavier machines may experience drive pull-away; this is normal. To accommodate this, the operator simply needs to realize and adjust for host machine steering. For example, a drum turned towards the left with a host machine turned towards the right will result in the arm pulling forward on heavier machines. On smaller machines, the drum turned towards the left may wind up turning the host machine to the left.

Always keep drum orientation aligned with the overall host machine travel direction. You may find material to be speed limiting; adjust speeds appropriately. A softer courser mix will likely demand a slower travel speed, and a firm, fine material would accommodate faster travel speeds.

VIBRATION MODE

Do not operate the vibration motor with the host machine in stationary or suspended positions for extended periods of time. Doing so may prematurely wear the drum bearings. If traveling over excessively hard surfaces, turn the vibration off if crossing these areas under load.

FLOAT MODE

When deploying float mode, press and hold the float button until the beacon light begins flashing. Release the button when the beacon light turns off. A suspended arm will begin to lower until the arm is on the ground. To cancel float mode, press the “up arrow” button.

5 TRANSPORTING THE OFFSET VIBRATORY ROLLER

⚠ WARNING

When loading or unloading the offset vibratory roller, clear all bystanders from the area. Never stand under the offset vibratory roller when it is being loaded or unloaded. Serious injury or death could occur.

1] Use a host machine to load the offset vibratory roller onto a suitable trailer.

2] If removing the offset vibratory roller from the host machine, disconnect the hydraulic lines and 12-volt DC connector and secure them to the offset vibratory roller.

3] Disengage the locking pins from the host machine pads and remove the pads from the universal mounting pad on the offset vibratory roller.

4] All machines have six tie-down points. All models have two tie-down points on the mounting plate.

5] On the 2-foot attachment there are two tie-down points on the outside plate on both the left and right side.

6] On the 3- and 4-foot attachments there are two tie-down points on the outside plate on the right side and two tie-down points on the inside top of the drum on the left side.

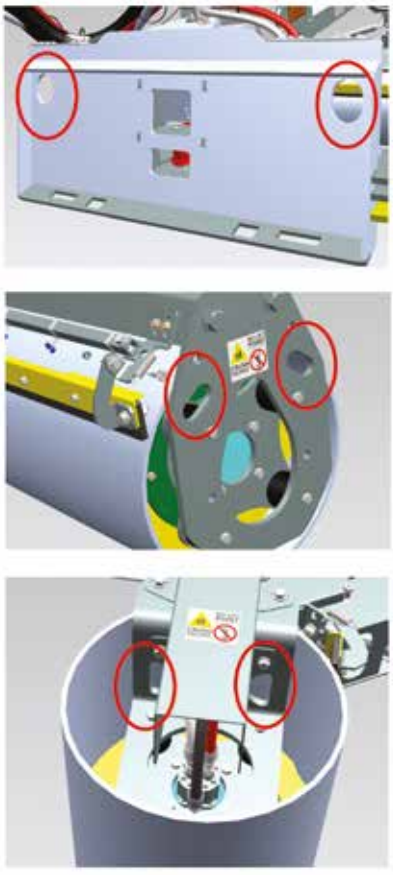


Figure 24: Six Tie-down Points

MAINTENANCE 6

Periodic Maintenance Chart

Please contact your local Road Widener Distributor/Dealer for any maintenance questions. The Offset Vibratory Roller needs periodic maintenance to continue working properly.

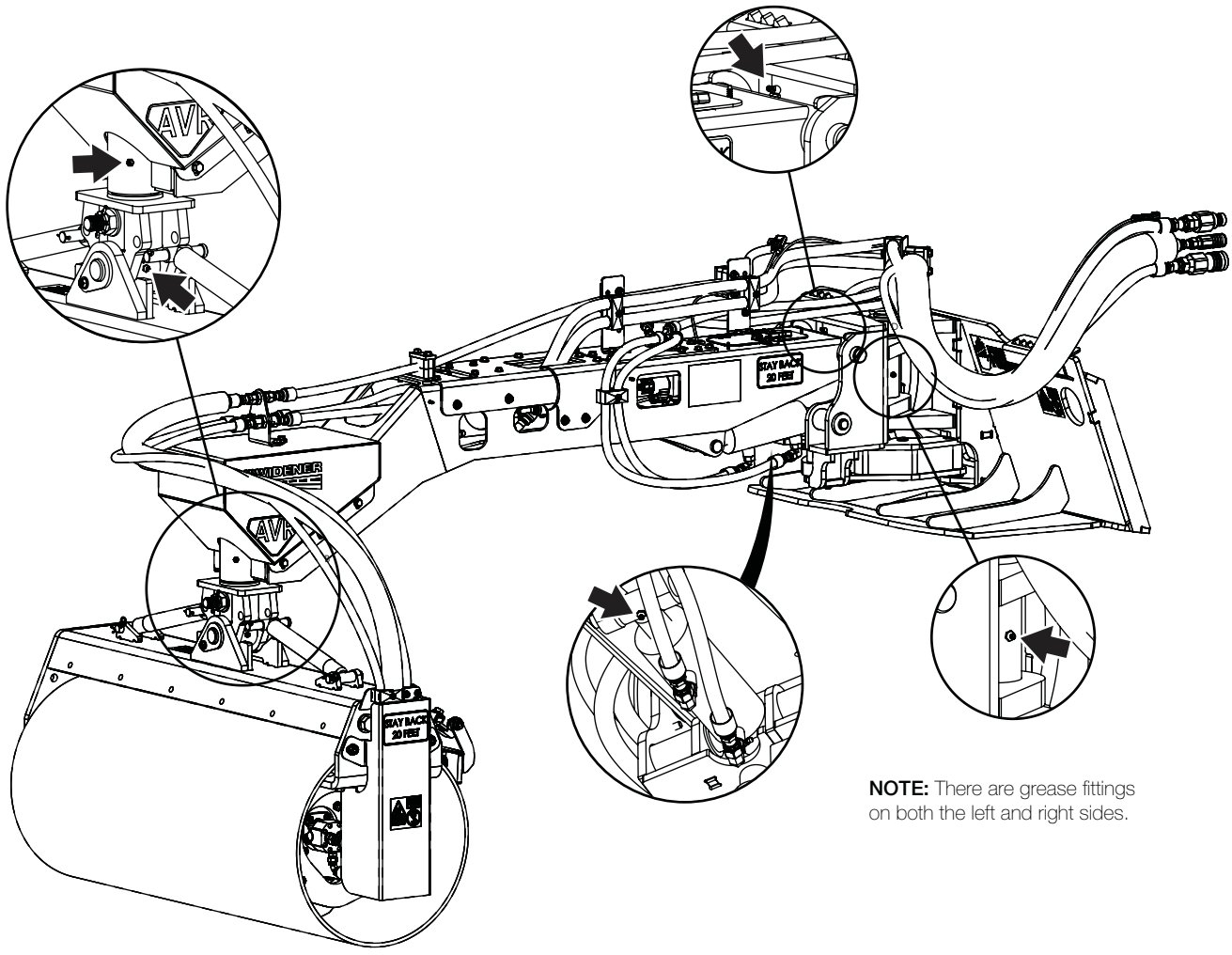
Review the “Safety” Section on page 20 before performing maintenance.

ITEM	DAILY CHECKS	WEEKLY	MONTHLY	EVERY YEAR OR 1,000 HOURS OF OPERATION
Greasing Attachment - 6 Fittings	X	X	X	X
Check For Loose Hardware	X	X	X	X
Check Host Machine Hydraulic Oil Level*	X	X	X	X
Check Wire Harness	X	X	X	X
Checking Hydraulic Hoses And Restraints	X	X	X	X
Remote Battery Replacement		X	X	X
Clean Attachment	X	X	X	X

* See your host machine operator’s manual for proper hydraulic oil level check.

Greasing the Attachment

The lubrication fittings should be greased every 10 hours or more often if the offset vibratory roller is being used in adverse conditions. There are a total of 5 grease fittings on the attachment. Apply grease to all fittings shown.



NOTE: There are grease fittings on both the left and right sides.

Figure 25: Lubrication Fittings

MAINTENANCE

Checking Hydraulic Hoses

1] Check the hydraulic hoses for any noticeable leaks. Make sure they are not rubbing on any moving parts. Fix any leaks before operating the equipment.

2] Check the hoses for any bulging, cracks, cuts, abrasions, twisting or bends. Repair or replace hoses as required.

NOTICE

The hydraulic hose restraints must be in place and the mounting hardware properly in place or premature hose failure will occur.

3] There are 11 hose restraints. Check that all the hose restraints are in place and all the fasteners are properly tightened.

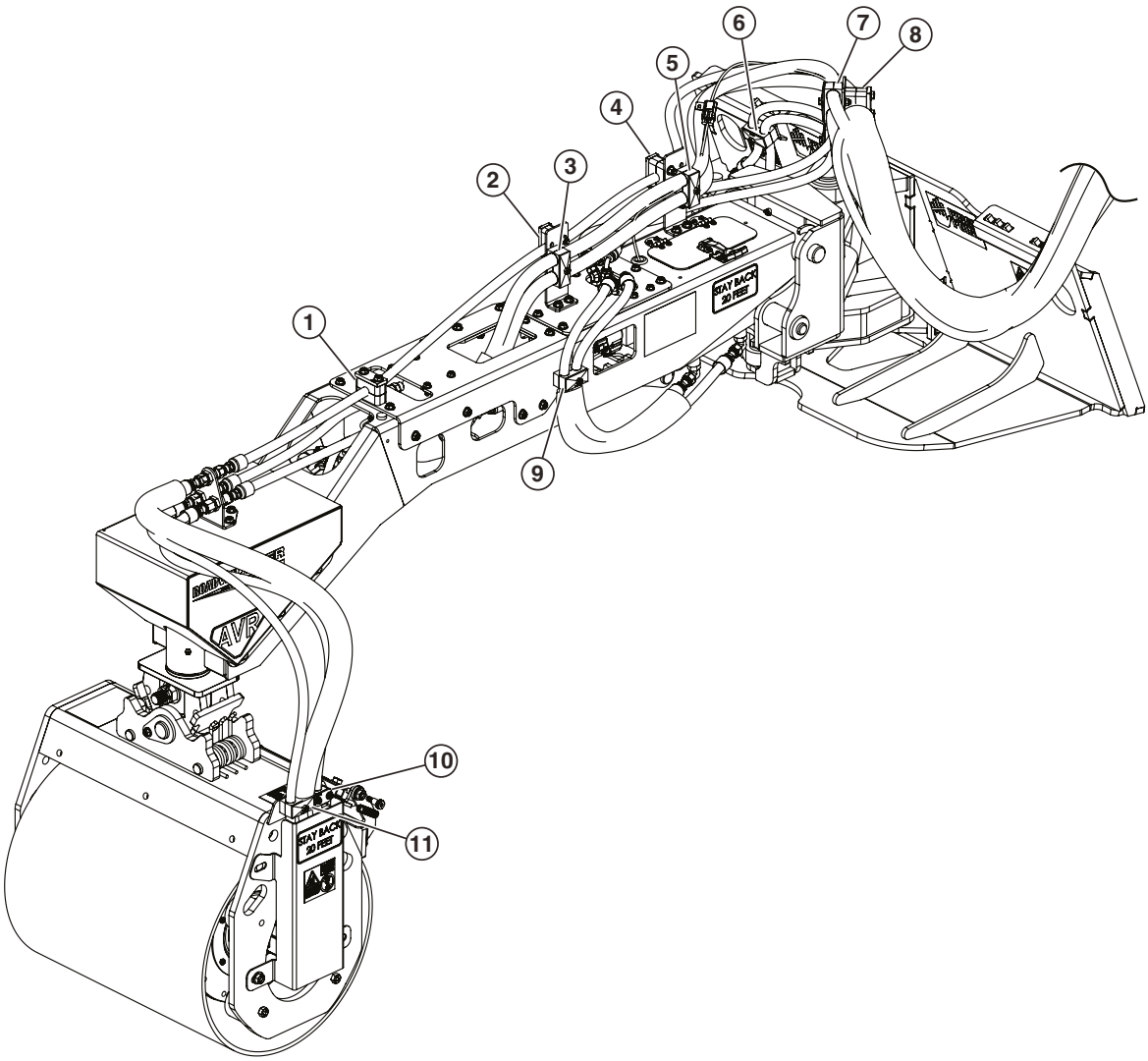


Figure 26: Hydraulic Hose Restraint Locations

Checking Hardware for Proper Tightness

Due to vibratory application all fasteners on the attachment should be checked daily to ensure there is not any loose or missing hardware. Any hardware that is re-torqued or replaced must have medium-strength thread locker applied to the threads of the fasteners. Proper torque must also be applied to all hardware to prevent future loosening. Grade 8 hardware is recommended.

Checking Wire Harnesses

Inspect the wire harnesses for cracks, cuts or abrasions. Make sure all wire connectors are connected. Make sure all wire ties and clamps are in place and securely fastened.

Replacing Remote Battery

Figure 27: Remote Battery Cover

1] Remove the four screws for the battery cover on the back of the remote and remove the cover.

2] Remove the batteries and replace them with a high-quality alkaline AAA battery.

MAINTENANCE

Figure 28: Battery Replacement

3] Install new batteries with negative (-) side of the battery against the springs.

4] Install the battery cover.

5] Pair the remote with the attachment.

Fuse Replacement

There are two fuses on the vibratory roller. A 10-amp fuse is located in the toolbox at the back of the attachment. Remove the fuse cover to gain access to the fuse.

Figure 29: 10-amp Fuse Replacement

There is also a 20-amp fuse located inside the 12-volt DC power plug. Unscrew the tip of the power plug to gain access to the fuse.

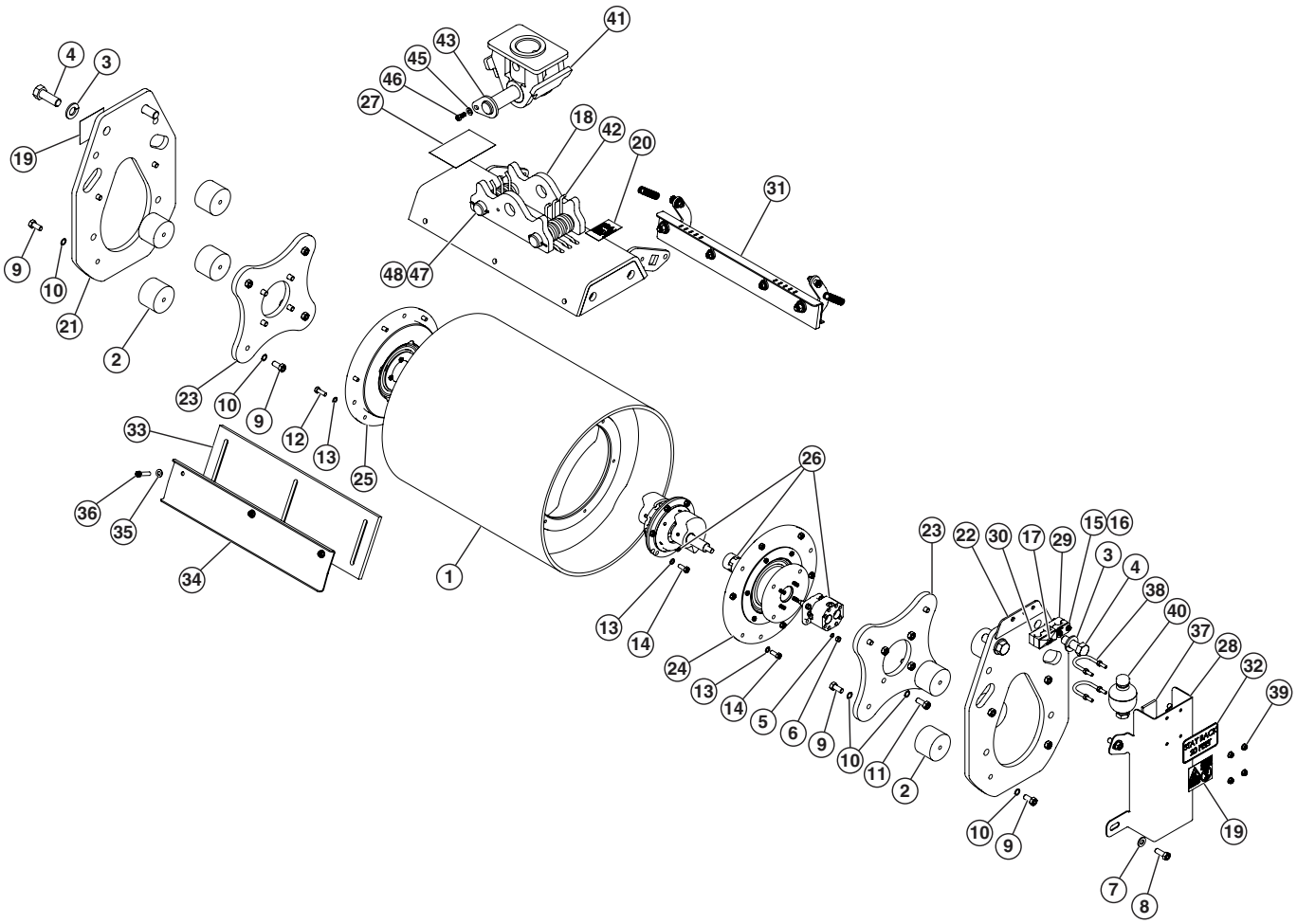
7 TROUBLE-SHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
No hydraulics.	Hydraulic hoses are not hooked up correctly to loader.	Check hose connections and hook up correctly.
	Loader's auxiliary hydraulics are off.	Make sure the loader's auxiliary hydraulics are on.
	Hydraulic flow is the wrong direction.	Change the direction of hydraulic flow from the host machine. If equipped activate switch in cab to reverse the flow. If flow cannot be reversed in the cab the male and female quick coupler may need to be reversed. Contact Road Widener for the correct fittings needed to reverse the flow.
Handheld remote and base unit are not communicating.	Power is not supplied to base unit or remote.	Make sure the 12-volt DC power cord is plugged into a 12-volt DC power source and the connection is clean of debris and corrosion (12-volt – 10 amps).
		Make sure the amber battery LED is not illuminated. If illuminated, install new batteries in the remote.
The remote green TX LED is not illuminated or the remote does not stay connected with the base unit.	Remote batteries are low.	Replace remote batteries. See "Replacing Remote Battery" on page 36.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
The remote and the base unit are powered but are not communicating with each other.	Remote and base unit may be out of range.	Make sure the units are in range.
	Obstructions or interference exist between remote and base unit.	Make sure there is a clear line of sight between the base unit and the remote.
	Remote and base unit are not properly paired.	Pair the remote and the base unit. See “Pairing the Remote Control” on page 8.
	The 12-volt DC accessory socket or power cord is not rated for 20 amps.	Make sure both the 12-volt DC accessory socket and power cord are rated for 20 amps.
Red LED on attachment is lit but functions are not working.	The 12-volt DC power source is not rated for the correct amperage.	The recommended amperage for the 12-volt DC accessory socket is 10 amps. Make sure the 12-volt DC power source can supply a minimum of 10 amps.
	TX LED on remote is lit but the RX light is not.	Check that the power source is supplying 10 amps and check that the 12-volt DC accessory socket and the 12-volt DC plug are clean and not corroded. Clean connections and apply dielectric grease.
Remote displays it is paired (RX and TX LEDs flashing) but no functions are working.	12-volt DC power source is not supplying enough amperage.	Check the 12-volt DC power source to make sure it has the correct output of 10 amps.
Remote does not seem to be paired or will not pair correctly.	12-volt DC power source is not supplying enough amperage.	Check the 12-volt DC power source to make sure it has the correct output of 10 amps.

8 ILLUSTRATED PARTS LIST



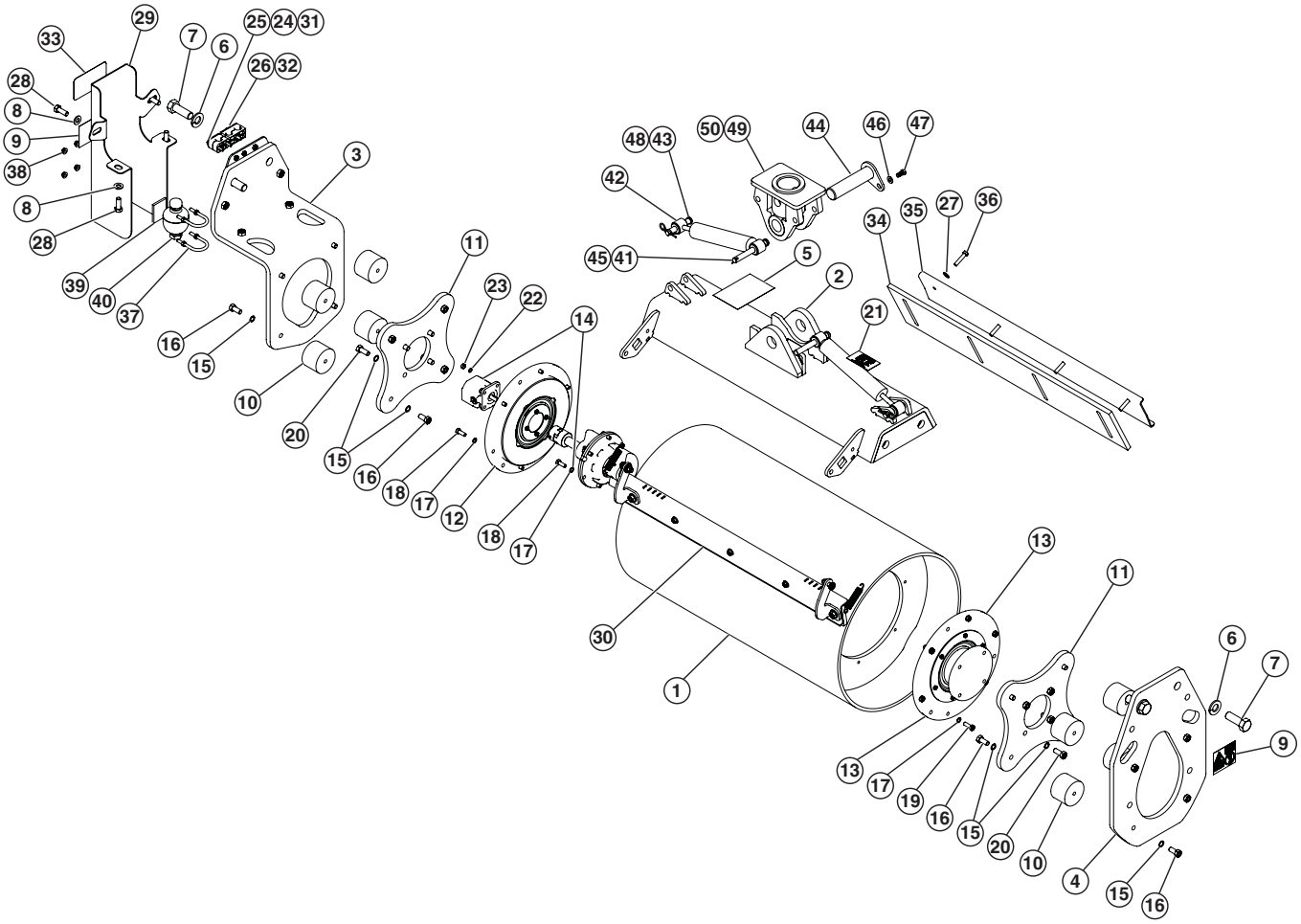
ILLUSTRATED PARTS LIST

NOTE: Proper assembly of drum is critical. Contact a Road Widener Distributor/Dealer for all service.

2 FT VIBRATORY ROLLER

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RW-3005683	2 FT DRUM WELDMENT	1
2	RW-4000054	ISOLATOR MOUNT	8
3	87RWSA8Y	.875" GRADE 9 YELLOW ZINC	4
4	87C250HCS8Y	HEX HEAD CAP SCREW .875-9 X 2.5 L GRADE 8 YELLOW ZINC	4
5	RW-4005094	5/16" SPRING WASHER	4
6	31CNFH8Y	YELLOW ZINC 5/16"-18 GRADE 8 HEX NUT	4
7	50RWSA8Y	FLAT ZINC YELLOW-CHROMATE PLATED GR 8 STEEL WASHER 1/2	4
8	50C137HCS8Y	YELLOW ZINC SCREW, GR.8, 1/2"-13, 1 3/8" LENGTH	4
9	50C112HCS8Y	1/2"-13 X 1 1/8" GRADE 8 HEX HEAD SCREW	16
10	RW-4005091	1/2" SPRING WASHER	24
11	50C125HCS8Y	1/2"-13X1.25" GRADE 8 BOLT	8
12	37C112HCS8Y	YELLOW ZINC SCREW, GR.8, 3/8"-16, 1-1/8" LONG	6
13	RW-4005092	3/8" SPRING WASHER	18
14	37C100HCS8Y	3/8"-16 X 1" GRADE 8 BOLT	12
15	98023A029	YELLOW ZINC, GR.8, 1/4" FLAT WASHER	2
16	25C225HCS8Y	YELLOW ZINC SCREW, GR. 8, 1/4"-20, 2-1/4" LENGTH	2
17	31C225HCS8Y	YELLOW ZINC SCREW, GR.8, 5/16"-18, 2-1/4" LONG	1
18	RW-3005676	2 FT CROSS MEMBER	1
19	RW-3000077	LABEL - CRUSH HAZARD - NO LIFT POINT	2
20	RW-4005052	SERIAL NUMBER PLATE - 2' VIBRATORY ROLLER DRUM	1
21	RW-3005859	FRAME SIDE 4 ISO	1
22	RW-3005860	FRAME SIDE WELDMENT	1
23	RW-3005874	ISOLATER PLATE - 4 ISO	2
24	RW-2005033	DRIVEN BEARING ASSEMBLY	1
25	RW-2005034	UNDRIVEN BEARING ASSEMBLY	1
26	RW-4007006	VIBRATORY UNIT ASSEMBLY	1
27	RW-4005057	HYDRAULIC PRESSURE WARNING LABEL	1
28	RW-3005858	HYDRAULIC HOSE GUARD - 2 FT	1
29	RW-4005098	-8 LIGHT DUTY HOSE CLAMP	1
30	RW-4000056	STAUFF CLAMP -8 HOSE	1
31	RW-2005044	2' VIBRATORY SCRAPER ASSEMBLY	1
32	RW-4005102	LABEL - STAY BACK 20 FT	1
33	RW-3005483	SCRAPER	1
34	RW-3005888	BENT SCRAPER CLAMP	1
35	98023A031	YELLOW ZINC, GR.8, 3/8" WASHER	3
36	92620A630	3/8-16 X 1 3/4" GR 8 YZ	3
37	9028K563	2.00" X 2.50" RUBBER STRIP	1
38	8875T24	5/16-18 X 1-3/4" ID ZINC PLATED STEEL U BOLT	2
39	93298A120	5/16"-18 ZINC PLATED STEEL FLANGE LOCK NUT	4
40	RW-4007039	ACCUMULATOR	1
41	RW-3005833	SPRING QUICK CONNECT ASSEMBLY	1
42	RW-4005110	DRUM SPRING	6
43	RW-3005849	ROLLER CONNECTION FLAG PIN	1
44	1095K27	.125 NPT 90DEG STEEL GREASE FITTING	1
45	98023A031	YELLOW ZINC, GR.8, 3/8" WASHER	1
46	37C87HCS8Y	YELLOW ZINC SCREW, GR.8, 3/8"-16, 7/8" LONG	1
47	RW-3005891	SPRING RETENTION PIN	2
48	98338A496	Ø5/32" X 2 1/4" LONG ZINC PLATED COTTER PIN	4

ILLUSTRATED PARTS LIST



ILLUSTRATED PARTS LIST

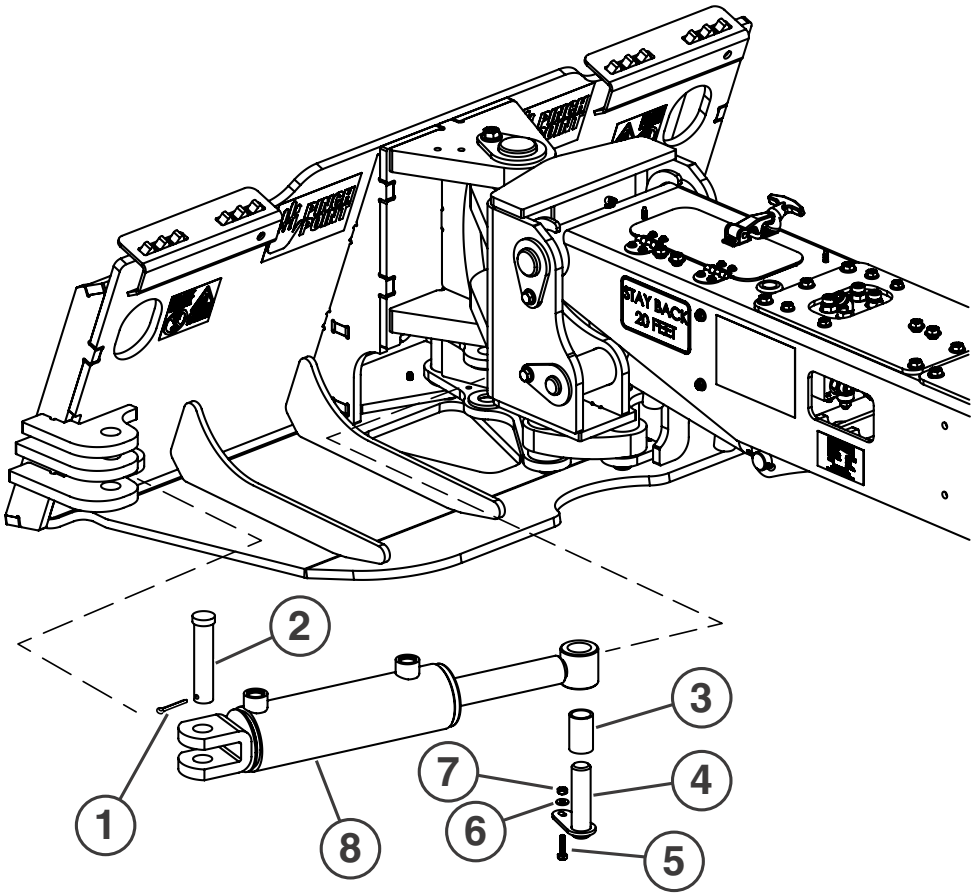
NOTE: Proper assembly of drum is critical. Contact a Road Widener Distributor/Dealer for all service.

3 & 4 FT VIBRATORY ROLLER

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RW-3005842	3 FT DRUM WELDMENT	1
	RW-3005841	4 FT DRUM WELDMENT	1
2	RW-3005673	3 FT FRAME WELDMENT	1
	RW-3005671	4 FT FRAME WELDMENT	1
3	RW-3005869	OFFSET PLATE WELDMENT	1
4	RW-3005859	FRAME SIDE 4 ISO	1
5	RW-4005057	HYDRAULIC PRESSURE WARNING LABEL	1
6	87RWSA8Y	.875 IN GRADE 9 YELLOW ZINC	4
7	87C250HCS8Y	HEX HEAD CAP SCREW .875-9 X 2.5 L GRADE 8 YELLOW ZINC	4
8	50RWSA8Y	FLAT ZINC YELLOW-CHROMATE PLATED GR 8 STEEL WASHER 1/2	4
9	RW-3000077	LABEL - CRUSH HAZARD - NO LIFT POINT	2
10	RW-4000054	ISOLATOR MOUNT	8
11	RW-3005874	ISOLATOR PLATE- 4 ISO	2
12	RW-2005033	DRIVEN BEARING ASSEMBLY	1
13	RW-2005034	UNDRIVEN BEARING ASSEMBLY	1
14	RW-4007006	VIBRATORY UNIT ASSEMBLY	1
15	RW-4005091	1/2" SPRING WASHER	24
16	50C112HCS8Y	1/2"-13 X 1 1/8" GRADE 8 HEX HEAD SCREW	16
17	RW-4005092	3/8" SPRING WASHER	18
18	37C100HCS8Y	3/8"-16 X 1" GRADE 8 BOLT	12
19	37C112HCS8Y	YELLOW ZINC SCREW, GR.8, 3/8"-16, 1-1/8" LONG	6
20	50C125HCS8Y	1/2"-13 X 1.25" GRADE 8 BOLT	8
21	RW-4005053	SERIAL NUMBER PLATE - 3' VIBRATORY ROLLER DRUM	1
22	RW-4005094	5/16" SPRING WASHER	4
23	31CNFH8Y	YELLOW ZINC 5/16"-18 GRADE 8 HEX NUT	4
24	98023A029	YELLOW ZINC, GR.8, 1/4" FLAT WASHER	2
25	25C225HCS8Y	YELLOW ZINC SCREW, GR. 8, 1/4"-20, 2-1/4" LENGTH	2
26	31C225HCS8Y	YELLOW ZINC SCREW, GR.8, 5/16"-18, 2-1/4" LONG	1
27	98023A031	YELLOW ZINC, GR.8, 3/8" WASHER (3' DRUM)	4
		YELLOW ZINC, GR.8, 3/8" WASHER (4' DRUM)	6
28	50C137HCS8Y	YELLOW ZINC SCREW, GR.8, 1/2"-13, 1 3/8" LENGTH	4
29	RW-3005855	HYDRAULIC HOSE GUARD	1
30	RW-2005049	3' SCRAPER ASSEMBLY	1
	RW-2005047	4' SCRAPER ASSEMBLY	1
31	RW-4005098	-8 LIGHT DUTY HOSE CLAMP	1
32	RW-4000056	STAUFF CLAMP -8 HOSE	1
33	RW-4005102	LABEL - STAY BACK 20 FT	1
34	RW-3005460	3' SCRAPER	1
	RW-3005481	4' SCRAPER	1
35	RW-3005889	3' BENT SCRAPER CLAMP	1
	RW-3005890	4' BENT SCRAPER CLAMP	1
36	92620A630	3/8-16 X 1 3/4" GR 8 YZ (3' DRUM)	4
		3/8-16 X 1 3/4" GR 8 YZ (4' DRUM)	6
37	8875T24	5/16-18 X 1-3/4" ID ZINC PLATED STEEL U BOLT	2
38	93298A120	5/16"-18 ZINC PLATED STEEL FLANGE LOCK NUT	4
39	9028K563	2.00" X 2.50" RUBBER STRIP	1
40	RW-4007039	ACCUMULATOR	1
41	97245A470	.625 X 4.75 CLEVIS PIN	2
42	RW-4005028	STEERING STABILIZER	2
43	97245A467	.625 X 3.25 CLEVIS PIN	2
44	RW-3005849	ROLLER CONNECTION FLAG PIN	1
45	12R125PCO0Z	ZINC-PLATED STEEL COTTER PIN	2
46	98023A031	YELLOW ZINC, GR.8, 3/8" WASHER	1
47	37C87HCS8Y	YELLOW ZINC SCREW, GR.8, 3/8"-16, 7/8" LONG	1
48	12R193PHA0Z	1/8 X 15/16 BRIDGE PIN FOR 75R350PCL0Z	2
49	RW-3005724	QUICK CONNECT ASSEMBLY	1
50	PYB12STR	.125 NPT STRAIGHT GREASE FITTING MMC 1095K11	1

ILLUSTRATED PARTS LIST

NOTE: Contact a Road Widener Distributor/Dealer for all service.

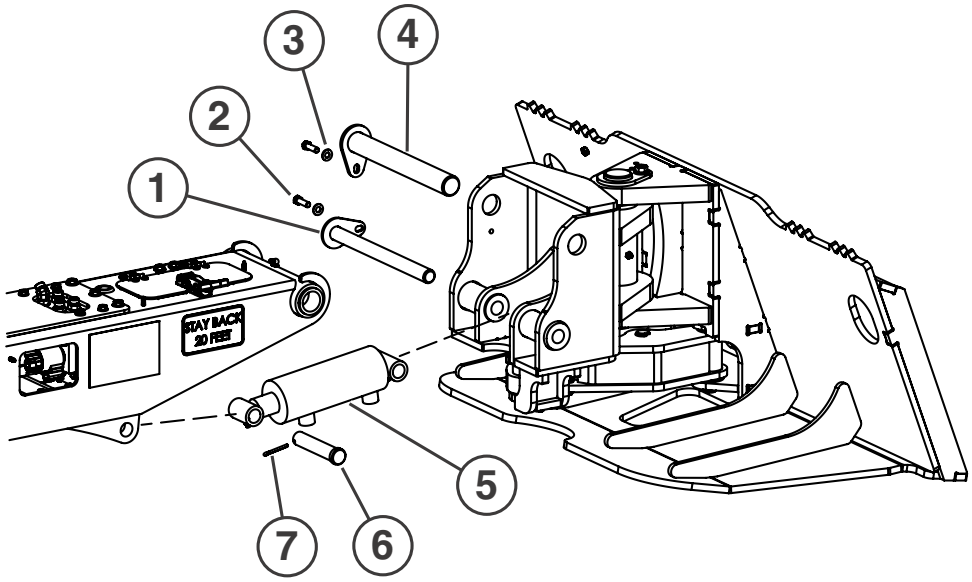


SWING CYLINDER

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	98338A270	COTTER PIN	1
2	97245A523	ZINC COATED CLEVIS PIN	1
3	RW-4005106	BUSHING	1
4	RW-3005692	PIN	1
5	92620A545	GRADE 8 CAP SCREW	1
6	98023A029	FLAT WASHER	1
7	9489A029	HEX NUT	1
8	RW-4005107	CYLINDER	1

ILLUSTRATED PARTS LIST

NOTE: Contact a Road Widener Distributor/Dealer for all service.



MOUNTING PLATE PINS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3005712	PIN	1
2	92620A626	CAP SCREW, GRADE 8, .375"-16 X 1/25"	2
3	98023A031	FLAT WASHER	2
4	RW-3005627	PIN	1
5	RW-3005663	CYLINDER	1
6	98306A682	CLEVIS PIN	1
7	98338A270	COTTER PIN	1

ILLUSTRATED PARTS LIST

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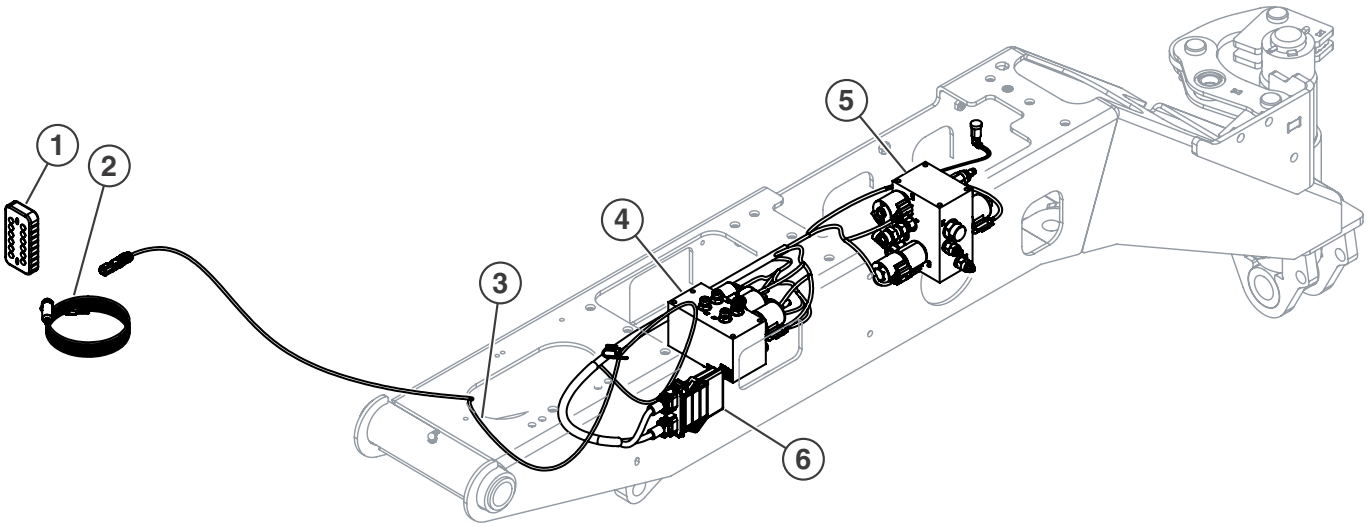


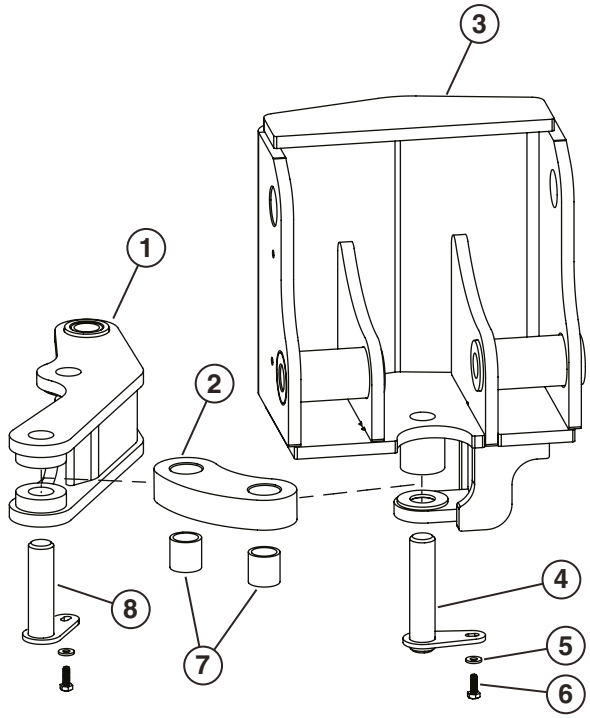
HYDRAULIC AND ELECTRICAL ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RW-4005022	REMOTE FOR VIBRATORY UNIT	1
2	RW-4005096	POWER DISCONNECT CABLE	1
3	RW-4005095	VIBRATORY ROLLER WIRE HARNESS	1
4	RW-3005613	SECONDARY MANIFOLD ASSEMBLY	1
5	RW-3005827	PRIMARY MANIFOLD ASSEMBLY	1
6	RW-4005047	VIBRATORY ARM REMOTE HYDRAULICS RECEIVER	1

NOTE: For servicing the solenoids or hydraulic manifolds, contact Road Widener.

ILLUSTRATED PARTS LIST

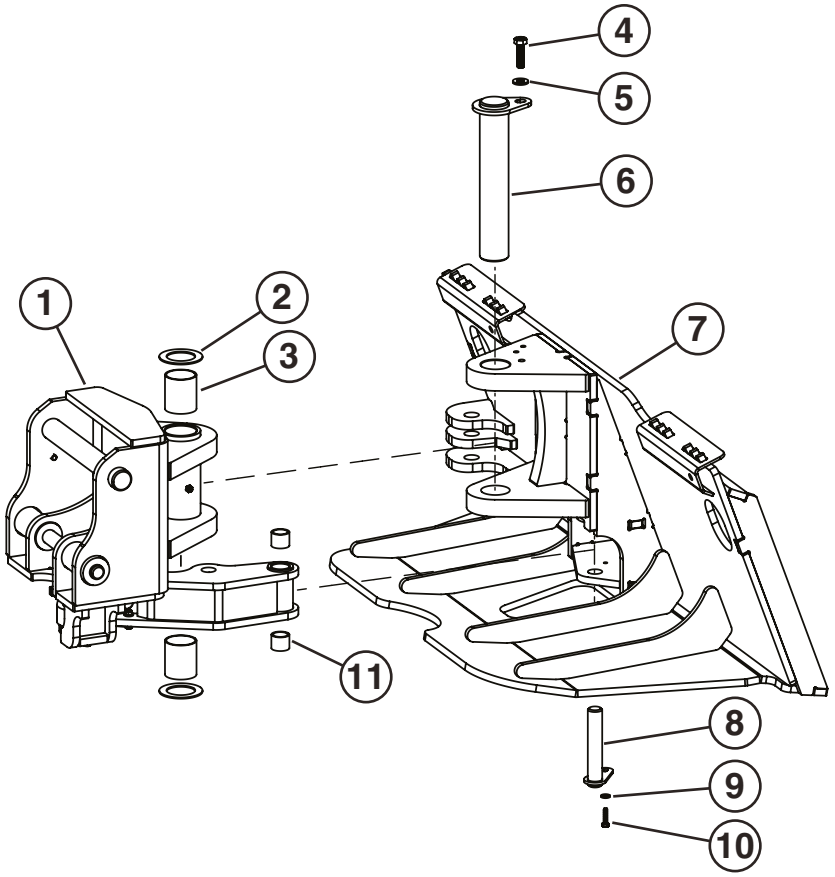
NOTE: Contact a Road Widener Distributor/Dealer for all service.



MACHINE INTERFACE ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RW-3005882	LINKAGE WELDMENT	1
2	RW-3005881	LINKAGE SHORT LINK	1
3	RW-3005883	PIVOT ARM	1
4	RW-3005693	LINKAGE FLAG PIN WELDMENT 3	1
5	98023A029	YELLOW ZINC, GRADE 8, 1/4" FLAT WASHER	4
6	92620A540	HIGH-STRENGTH GRADE 8 STEEL CAP SCREW	1
7	RW-4005105	SWING CYLINDER BEARING 2	2
8	RW-3005692	LINKAGE FLAG PIN WELDMENT 2	1

ILLUSTRATED PARTS LIST



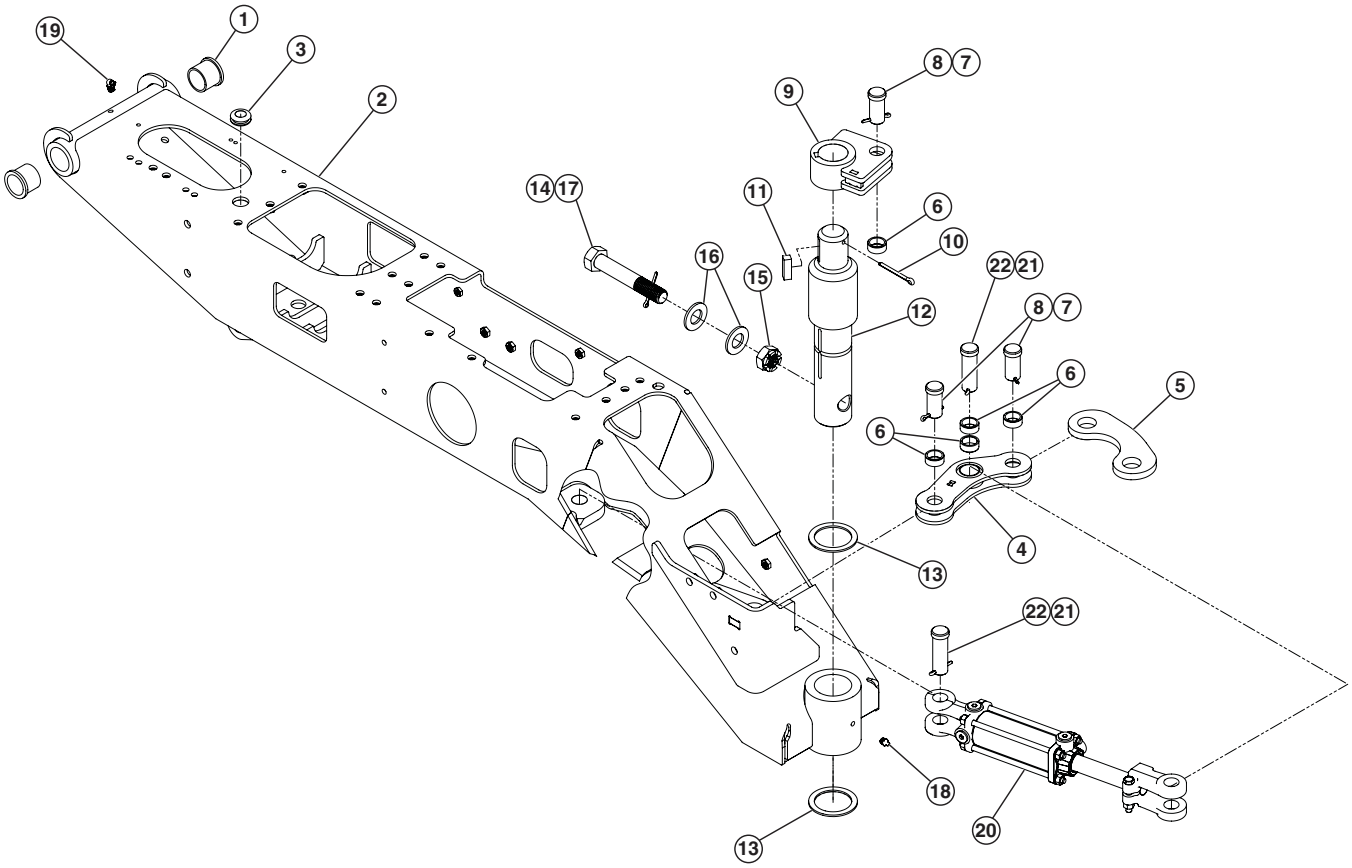
ILLUSTRATED PARTS LIST

NOTE: Contact a Road Widener Distributor/Dealer for all service.

MOUNTING PLATE PINS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RW-3005883	PIVOT ARM	1
2	RW-4005109	ARM SWING THRUST WASHER	2
3	RW-4005108	ARM SWING BUSHING	2
4	92620A718	1/2"-13 THREAD SIZE, 1-3/4" LONG GRADE 8 YELLOW ZINC	1
5	98023A033	FLAT ZINC YELLOW-CHROMATE PLATED GRADE 8 STEEL WASHER	1
6	RW-3005632	ARM SWING FLAG PIN WELDMENT	1
7	RW-3005649	MACHINE MOUNT WELDMENT	1
8	RW-3005691	LINKAGE FLAG PIN WELDMENT 1	1
9	98023A029	YELLOW ZINC, GRADE 8, 1/4" FLAT WASHER	4
10	92620A545	YELLOW ZINC SCREW, GRADE 8, 1/4"-20, 1-1/8" LONG	2
11	RW-4005104	ARM LINKAGE BUSHING	2

ILLUSTRATED PARTS LIST



ILLUSTRATED PARTS LIST

NOTE: **Contact a Road Widener Distributor/Dealer for all service.**

ARM ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RW-4005000	Ø1.5 ID X 1.5 L FLANGED SLEEVE BEARING	2
2	RW-3005580	ARM ASSEMBLY	1
3	GMT1297	PUSH IN GROMMET FOR 1 1/16" HOLE	1
4	RW-3005793	TOP CONTROL PLATE WELDMENT	1
5	RW-3005794	TOP PUSH LINK	1
6	RW-3005802	Ø1" ID X 0.5" L SLEEVE BUSHING	5
7	18R150PCO0Z	ZINC-PLATED COTTER PIN, 3/16" DIAMETER, 1-1/2" LONG	3
8	100R200PCL0Z	1" OD X 2" LENGTH CLEVIS PIN MMC 97245A501	3
9	RW-3004005	ROLLER PIVOT CLEVIS	1
10	25R250PC03	.25" X 2.5" 316SS COTTER PIN	1
11	RW-3005801	QUICK PIN KEY	1
12	RW-3005782	QUICK CONNECT PIN	1
13	5906K589	THRUST BEARING 2-1/2" ID, 3-1/4" OD, 1/8" THK	2
14	18R200PCO0Z	ZINC-PLATED COTTER PIN, 3/16" DIAMETER, 2" LONG	1
15	97190A040	MEDIUM-STRENGTH LOCKNUT, GR 5, 1"-8 THREAD SIZE	1
16	100RWSA8Y	ZINC YELLOW-CHROMATE PLATED, GR 8, WASHER FOR 1" SCREW	2
17	RW-3005669	DRILL HOLE 91257A969	1
18	PYB12STR	.125 NPT STRAIGHT GREASE FITTING MMC 1095K11	1
19	PYB1290	.125 NPT 90DEG STEEL GREASE FITTING	1
20	RW-4005111	DRUM ROTATE CYLINDER	1
21	18R150PC00Z	ZINC-PLATED COTTER PIN, 3/16" DIAMETER, 1-1/2" LONG	2
22	RW-4005005	CLEVIS PIN	2

ILLUSTRATED PARTS LIST

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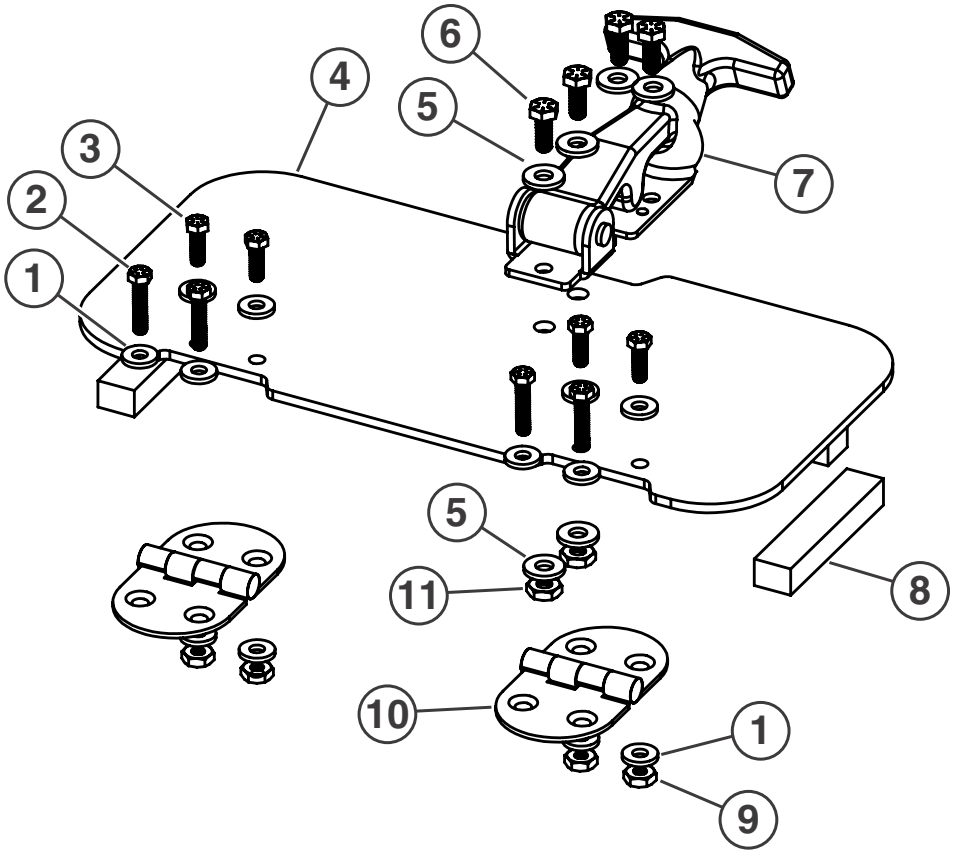

DOOR COVER ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	98023A113	FLAT WASHER #8 GRADE 8 YELLOW ZINC	12
2	92620A409	YELLOW ZINC SCREW, #8-32, 3/4" LONG	4
3	92620A408	YELLOW ZINC SCREW, GRADE 8, #8-32, 1/2" LONG	4
4	RW-3005847	ARM COVER DOOR	1
5	98023A114	ZINC YELLOW-CHROMATE PLATED, GRADE 8, WASHER #10 SCREW SIZE	6
6	92620A412	YELLOW ZINC SCREW, 10-24, GRADE 8, 1/2" LONG	4
7	1685A240	WEATHER RESISTANT DRAW LATCH	1
8	RW-3005848	DOOR FOAM STRIP	4
9	90480A009	LOW-STRENGTH NUT, ZINC PLATED, #8-32 THREAD	4
10	1549A570	SURFACE MOUNT HINGE	2
11	90480A011	LOW-STRENGTH NUT, ZINC-PLATED, #10-24 THREAD	2

ILLUSTRATED PARTS LIST

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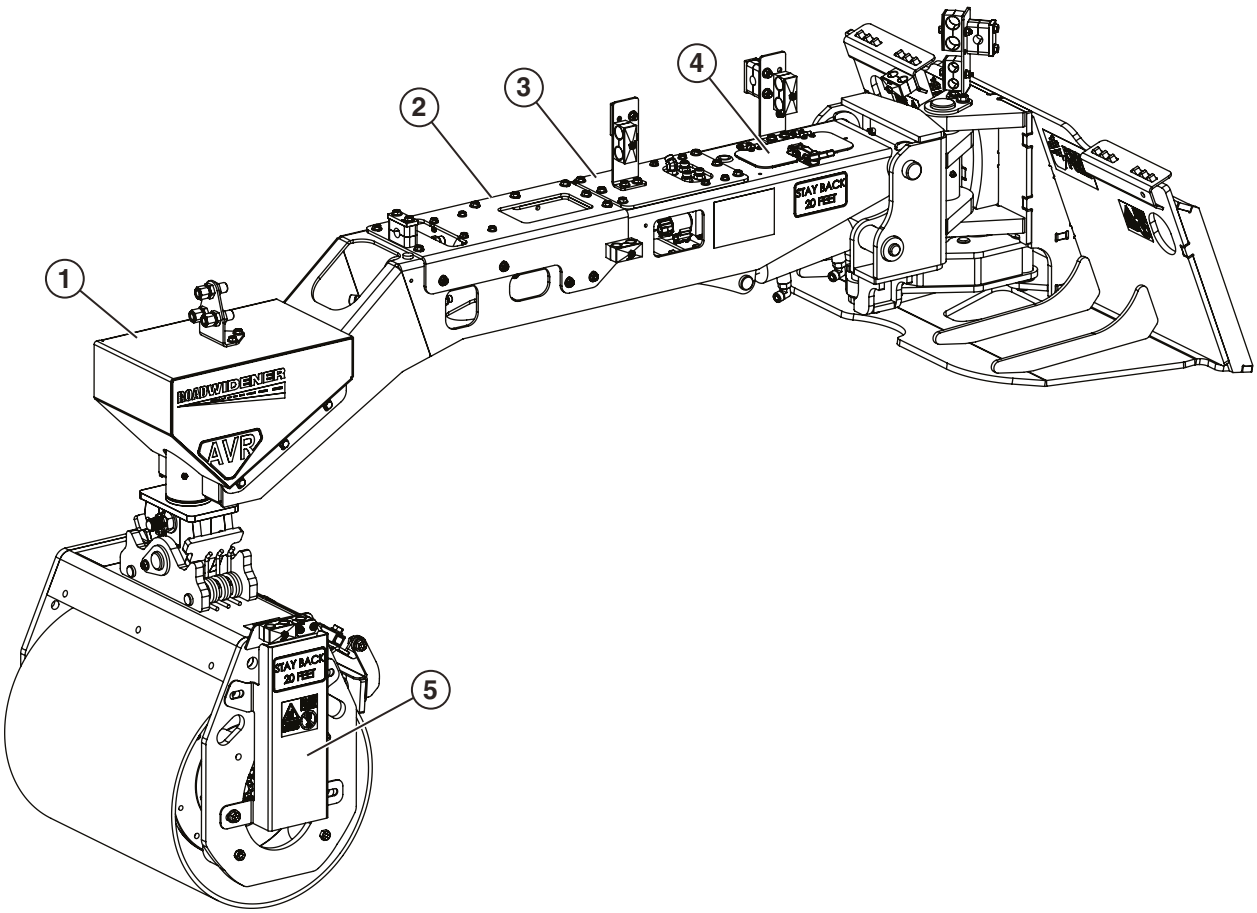

COVERS AND GUARDS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RW-3005798	LINKAGE COVER	1
2	RW-3005668	MANIFOLD COVER	1
3	RW-3005720	ARM COVER	1
4	RW-2005042	DOOR COVER ASSEMBLY	1
5	RW-3005855	HOSE GUARD	1

ROADWIDENER

Road Widener LLC

Sales: 844-4WIDENER (844-494-3363)

sales@roadwidenerllc.com
www.roadwidenerllc.com

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