

## Wheel Kaddy™

**Owner's Manual** 

REV: 2024.6.7



11/9/2021

## Wheel Kaddy Owner's Manual

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Parts on pages 16-27

#### 1. Install The Mount

Some mounts will require drilling. In order to properly allow the tire to swing underneath the 360 Arm Assembly, the proper height must be maintained. Refer to the chart below(1c) for the recommended mounting heights. Clamp the mount at the desired location using a set of vice grips(1a).Then, as long as your tire swings underneath, and there are not interferences with handlebars or drive linkage when the Kaddy is up in the storage position, drill holes and bolt the mount onto the mower(1b).



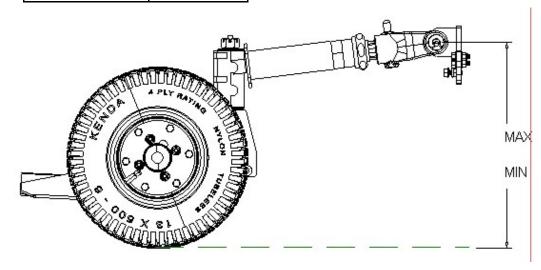




1	С

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	10" tire
MAX Mount Height	13 1/2"
MIN Mount Height	12"



NOTE: for S-Series ExMark mowers, you may be required to move the mount up and drill extra holes.

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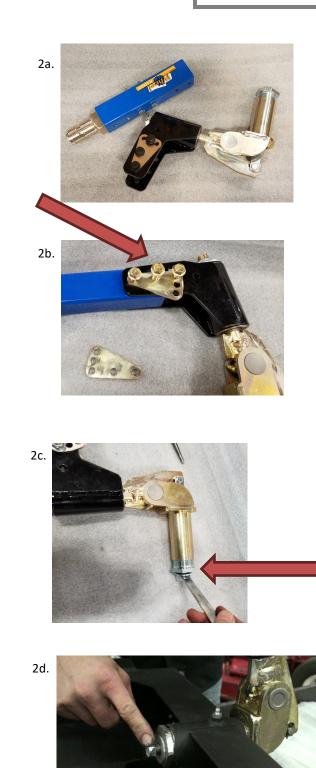
#### 2. Assemble The Arm

A. Remove Arm Assembly from packaging

- B. Install 3/8" hex bolts loosely, connecting the Rear Arm Assembly to the vertical pivot using the lock plates.(2b) Leave nuts loose so that you can adjust vertical pivot later.
- C. Remove large bushing and small locknut(2c).

D. Insert 360 Arm Assembly into the Platform
 pivot tube. Loosely install the large bushing,
 ½" washer and locknut.(2d)

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#### 3. Install The Tires

 A. Tighten the castle nut down snugly. Do not overtighten.
 Bend the tab of the cotter pin into the nearest slot of the nut. This will prevent the nut from becoming loose.

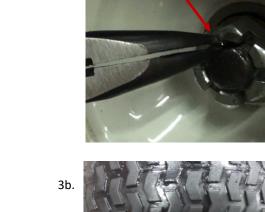
B. Install wheel assemblies onto both axles. NOTE: When using the 3-piece tapered roller bearing set, make sure that the grease seal is fully seated onto the axle shoulder. There should be a very small gap between the platform and tire as shown(3b).

C. After confirming that the grease seal is securely seated insert the bearing and cotter pin through the axle.

D. Carefully tap hub cap into place with rubber mallet. (3d) Follow the same procedure for each wheel.

NOTE: Using a large impact socket over the dust cap during installation can help prevent damage from the mallet.

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Cotter pin

3a.







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#### 4. Hook Up The Kaddy & Adjust

A. Hook the assembled Wheel Kaddy into the mount using button on quick release.



4b.



B-C. Adjust the distance from the mower: Determine a comfortable standing distance from the operator controls of the lawn mower. Typically, the closer the better. Install the bolts and hardware.



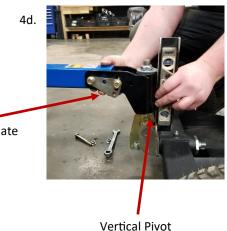
Closer



Farther

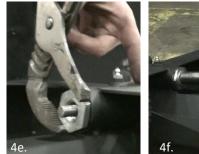
D. Adjust the Vertical Pivot to be as close to perpendicular to the ground as possible(4d). This is critical so that the level of the Kaddy Platform does not change as it swings around the vertical pivot. Tighten nuts snugly onto the Lock Plates.

Lock plate

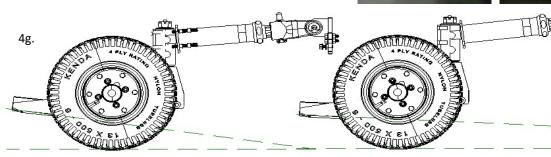


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E-F-G. Tighten large bushing snugly(4e). Tighten ½" pitch adjustment locknut until the Kaddy Platform becomes level, or pitched slightly forward, so that the heels of the operator are elevated(4f). Refer to the below diagram(4g) for proper pitch.



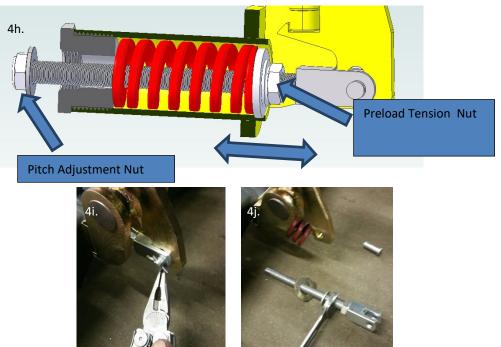




Too Much Pitch

- H. The Wheel Kaddy suspension is preset to a medium preload. If more or less preload ('stiffness') is preferred, adjust the preload tension nut shown. The closer the nut is to the spring, the higher the pre-load tension will be.
- I-J. To adjust, remove the ½" pitch adjustment nut, then remove the pin (4i.) from the clevis allowing you to remove the threaded rod and clevis from inside the tube. Turn the tension nut(4j.) a couple of turns, re-install and test.

Preferred Pitch (only slightly forward)



K. Loop storage chain through handlebars and use carabiner hook to secure(4k.). Different mower models may require other methods to attach the chain. Use a bolt cutter or other tool to cut off extra chain.



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Parts on pages 16-27

#### 1: Install The Mount

A: Install mount with bolts provided. If the universal mount is being used, refer to the "Top Height adjustment" (1a). See Page 32 of this manual for proper mounting height.



1b.

B: Install arm assembly into quick release coupler(1b).



C: Install wheels on platform.

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NOTE: When using the 3-piece wheel assemblies make sure that the grease seal is fully seated onto the axle shoulder. There should be a very small gap between the platform and tire as shown(1c).



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#### 2: Install Tires and Mount

A: Install tapered roller bearing at the front.

2a.



B: Carefully install castle nut on the axle(2b.). Tighten enough to snug up the bearings without Causing unnecessary friction. Wheel must spin freely. Once the proper torque is obtained install cotter pin through the axle to secure the castle nut.

C: Carefully tap hub cap into place with rubber mallet(2c). Follow the same procedure for each wheel.

NOTE: Using a large impact socket over the dust cap during installation can help prevent damage from the mallet.

2b.

2c.



D-E: Install Kaddy platform(2d). Loosely thread end nut to temporarily Secure(2e).



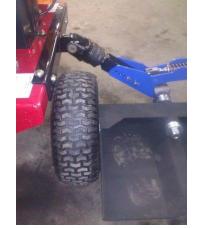


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#### 3: Check Clearance and Adjust Pitch

A: Turn Kaddy to the side to check for clearance against the machine and the tire(3a).

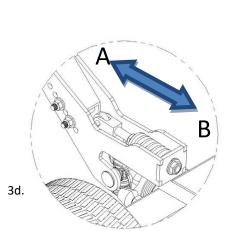
3a.



B: If there is contact between the machine and the Kaddy before it reaches 90 degrees, adjust the placement of the two bolts shown to increase the distance between the tire and machine(3b). 3b.



C-D: Adjust the pitch (level) of the platform by Increasing or decreasing the distance between the clevis (A) and the spring retaining nut (B). Tighten nut to decrease distance. Loosen nut to increase distance.





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#### <u>4: Adjust Tension, Distance and</u> <u>Stops</u>

A: Adjust spring tension to operator preference by turning the tension nut as shown(4a).

4a.

B: Further adjust the distance from the controls by moving washers from the front to the back as needed(4b). NOTE: the further the platform is back the easier it is to back up without jack-knifing. DO NOT OVER-TIGHTEN LOCKING NUT.

C: Install stops onto platform and adjust as shown(4c).

4c.

4b.





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D-E-F: Thread chain through handlebars, and hook together with the hook provided(4d). Be sure that the preferred length is obtained and then clip off excess chain(4e).

Check for interferences(4f).



4e.



4f.

**Check For Interferences** 



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Parts on page 16-27

#### 1: Install The Mount

Some mounts will require drilling. Refer to the chart below for the recommended mounting heights(1b). Clamp the mount at the desired location using a set of vice grips(1a). Then, as long as there are not interferences with handlebars or drive linkage when the Kaddy is up in the storage position, drill holes and bolt the mount onto the mower. 1a.

1b.			10" Tire
		13" Tire	
	MAX Mount Height	15 3/8"	15 3/8"
	MIN Mount Height	9 3/8"	9 3/8"

# MAX MIN

2a.

2b.

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#### 2. Assemble The Arm

A. Remove Arm Assembly from packaging

B. Remove 3 bolts and the lock plates. Re-insert the Upper Arm, and install one bolt loosely through the arm assembly as pictured(2b).

C. Insert 250 Arm Assembly through the pivot bearings in the Platform. Loosely install ¾" locking nut(2c).





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#### 3. Install The Tires

A. Install wheel assemblies onto both axles.

NOTE: When using the 3-piece tapered roller bearing set, make sure that the grease seal is fully seated onto the axle shoulder. There should be a very small gap between the platform and tire as shown(3a).

B. After confirming that the grease seal is securely seated insert the bearing on the axle(3b).

C. Tighten the castle nut down snugly. Do not overtighten. Insert cotter pin into the nearest slot of the nut and bend the tab of the cotter pin to the sides or over the top(3c). This will prevent the nut from becoming loose.

D. Carefully tap hub cap into place with rubber mallet(3d). Follow the same procedure for each wheel.

NOTE: Using a large impact socket over the dust cap during installation can help prevent damage from the mallet.

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3a.

3c.

3d.

Cotter pin





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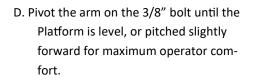
#### 4. Hook Up The Kaddy & Adjust

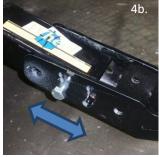
A. Hook the partially assembled Wheel Kaddy into the mount using button on quick release.

Quick release button



B-C. Adjust the distance from the mower: Determine a comfortable standing distance from the operator controls of the lawn mower. If the medium position is not comfortable, remove the 3/8" bolt and re-align the holes at a different location(4b). The washers can also be used to fine-tune the distance adjustment(4c).







4d.



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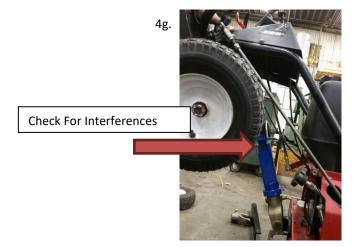
- E. Remove 3/8" bolt to Install lock plates and then install all three 3/8" bolts to secure arm adjustment. Tighten remaining loose hardware.
- 4e.

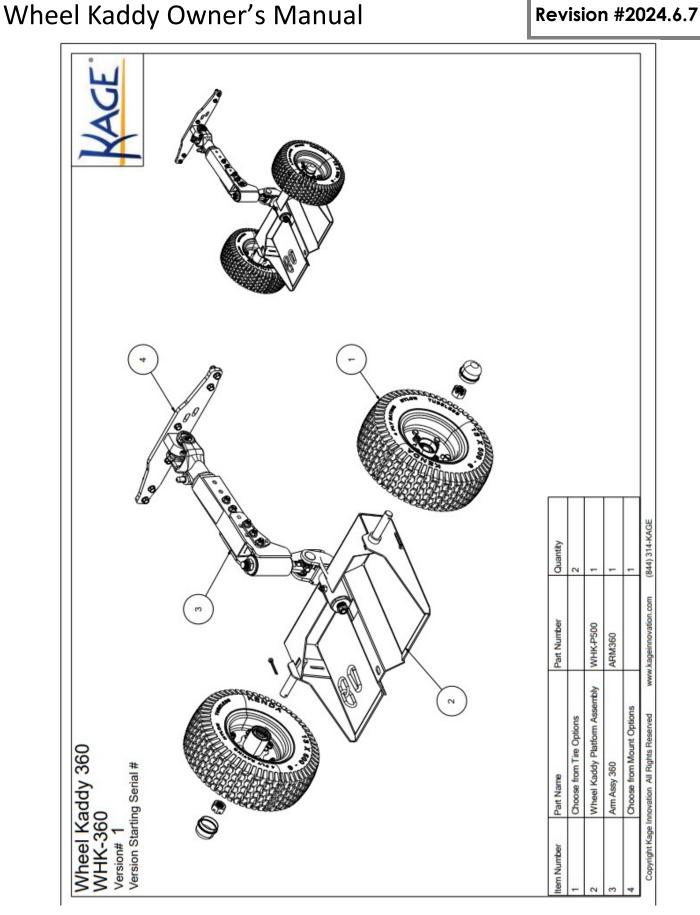


- .
- F-G. Loop storage chain through handlebars and use carabiner hook to secure(4f). Different mower models may require other methods to attach the chain. Use a bolt cutter or other tool to cut off extra chain.

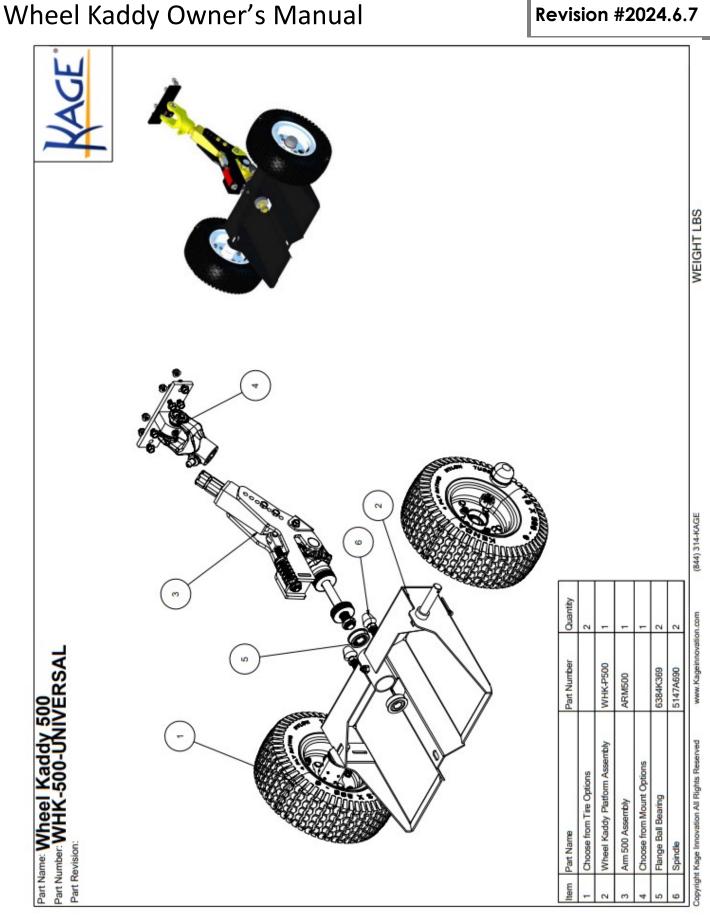
Check for interferences(4g).





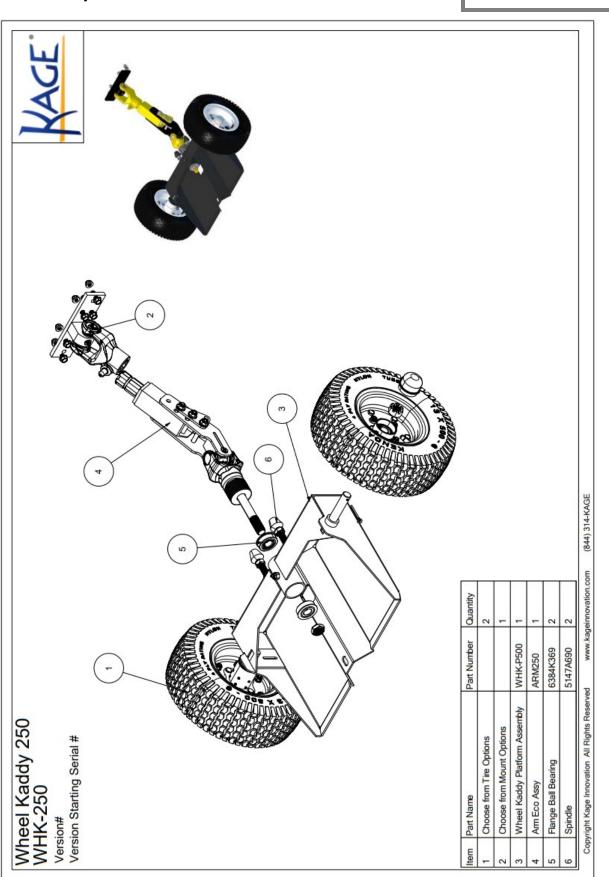






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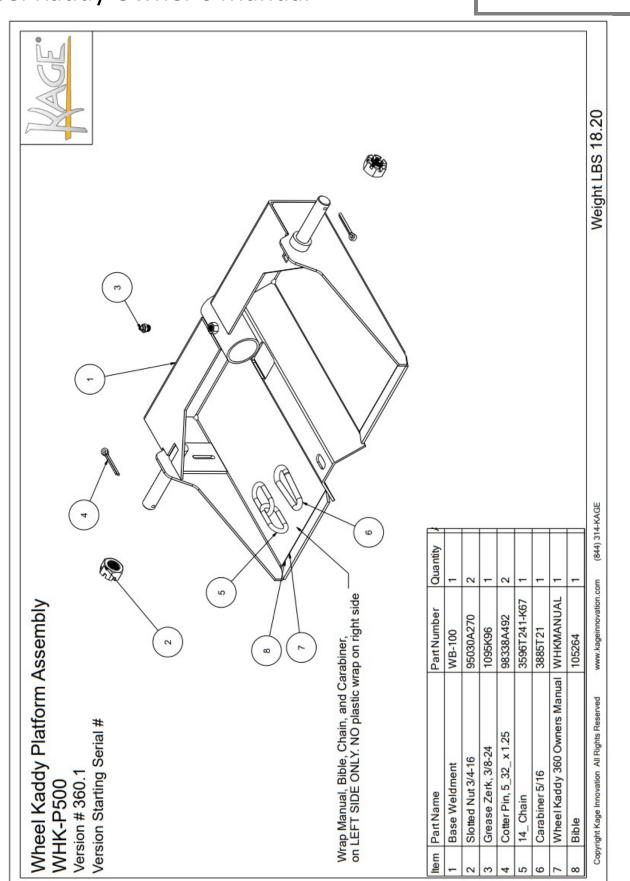


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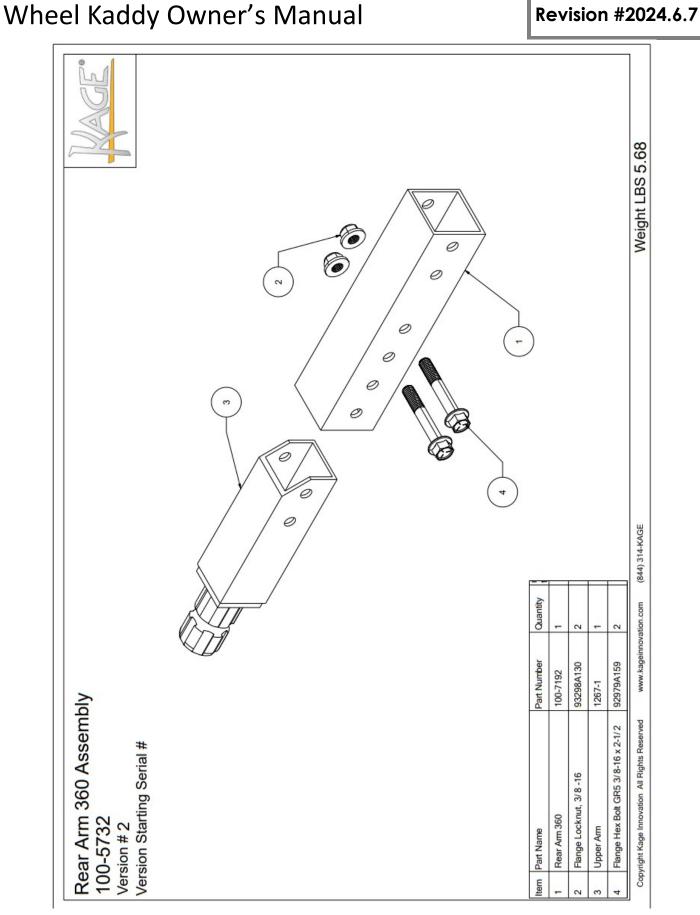
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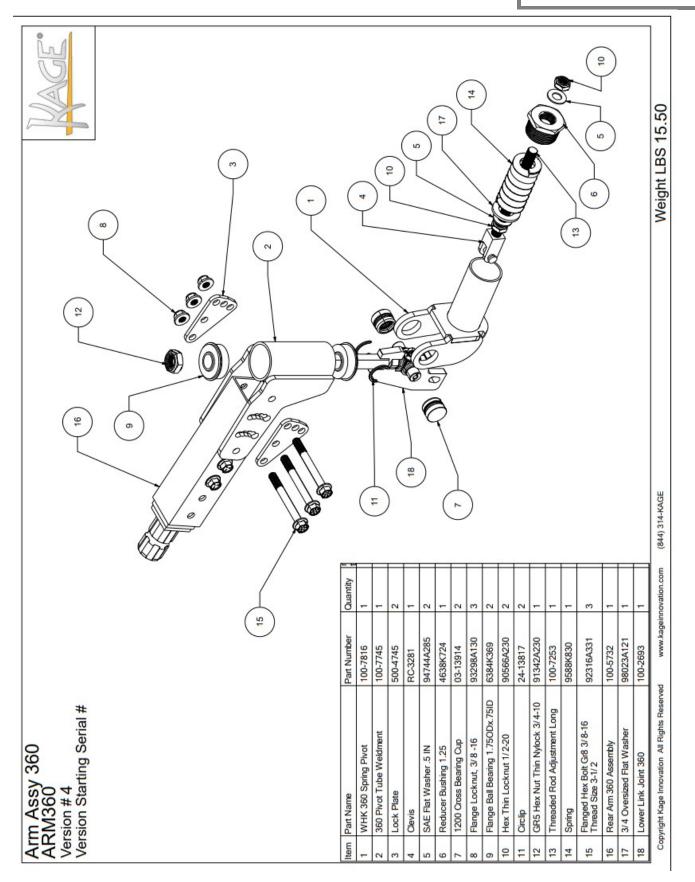


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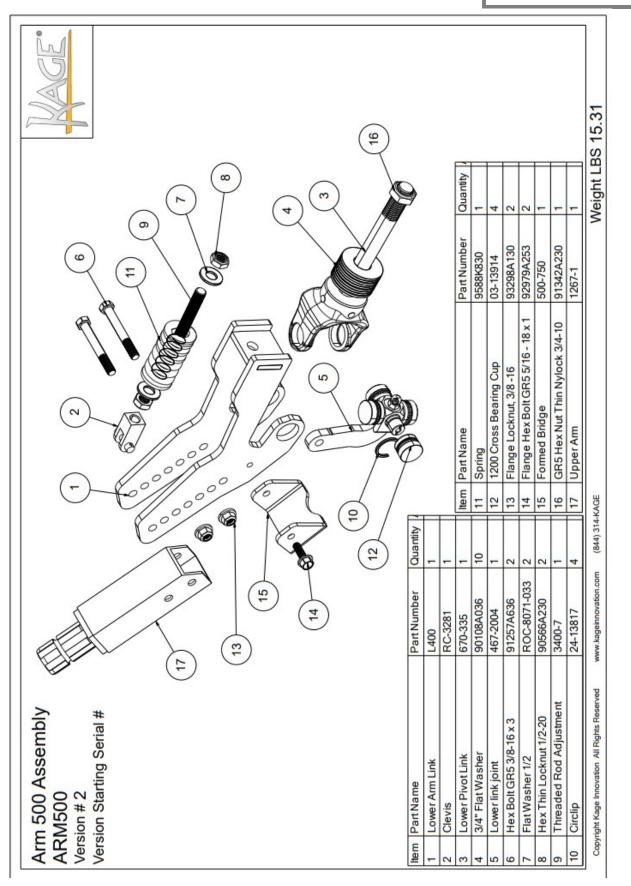
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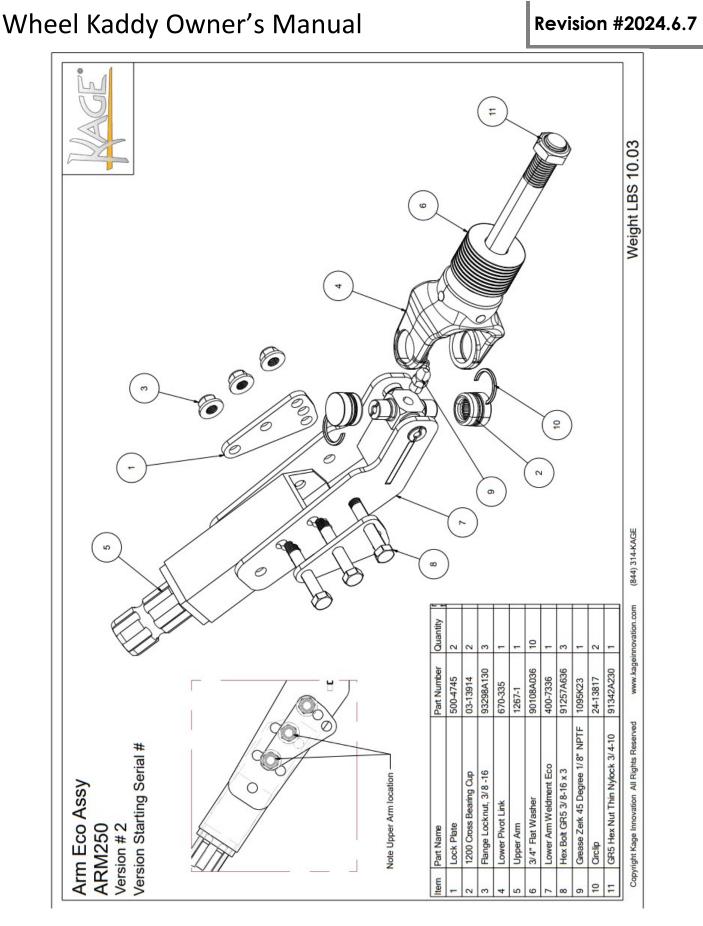
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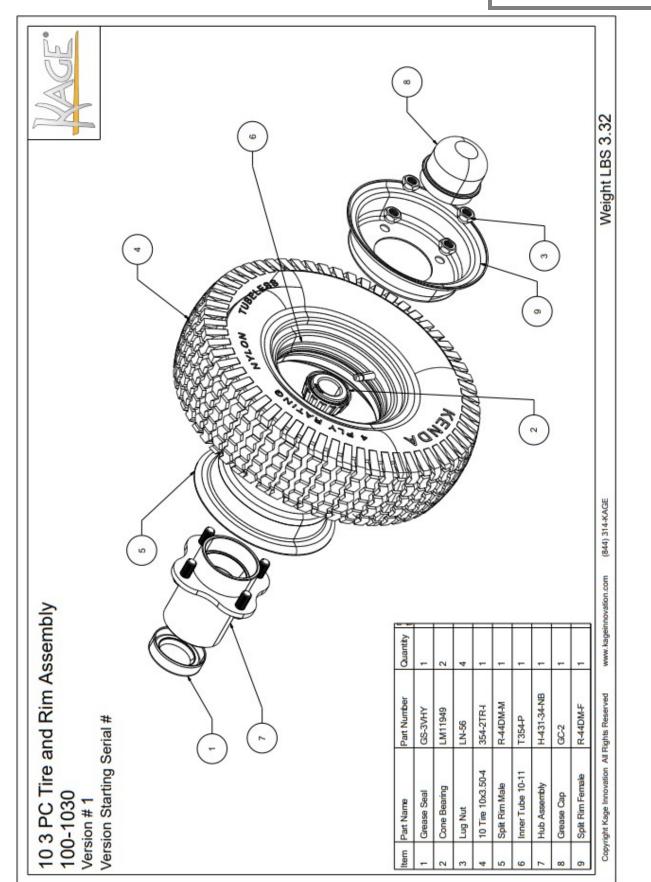
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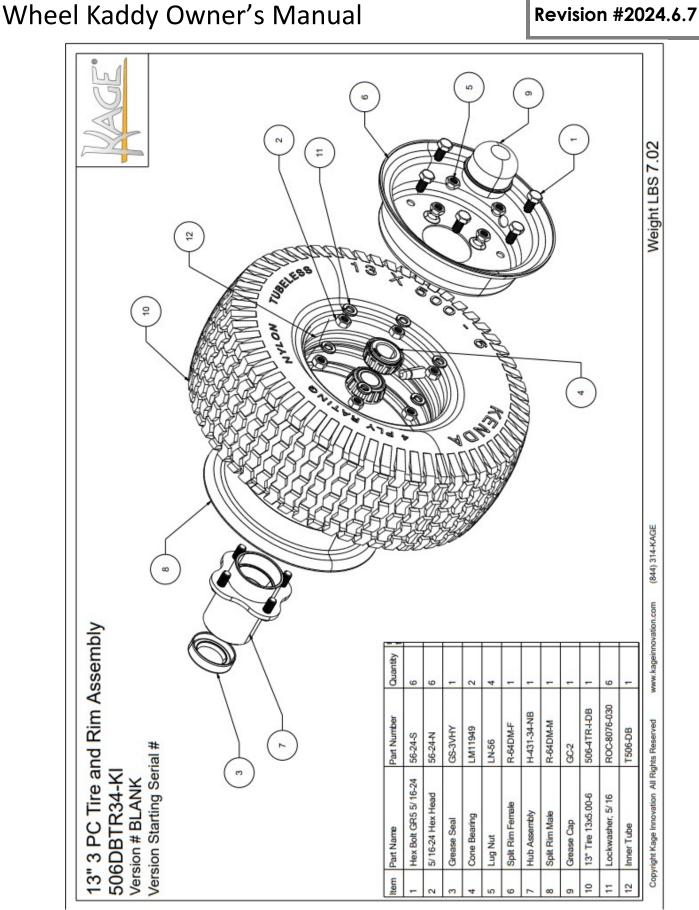




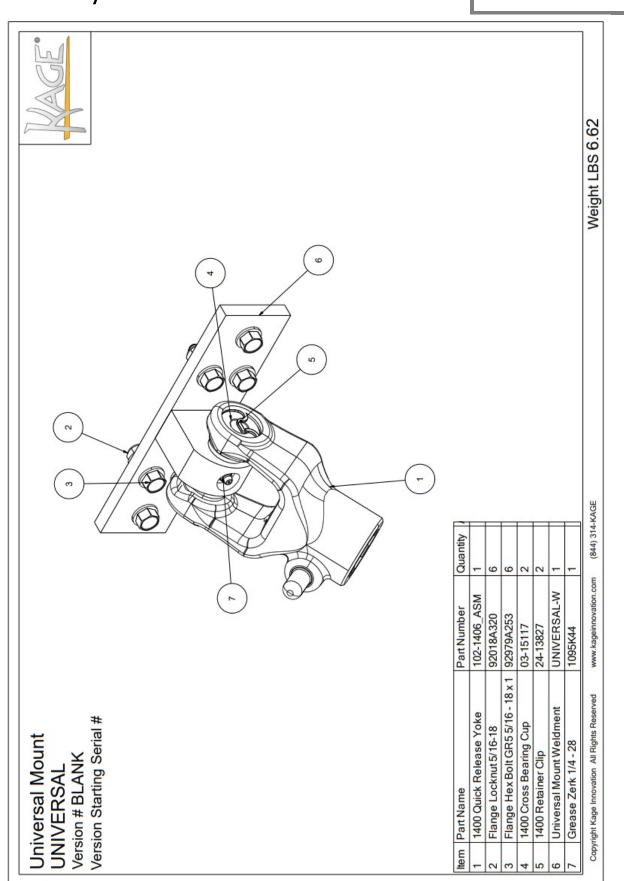
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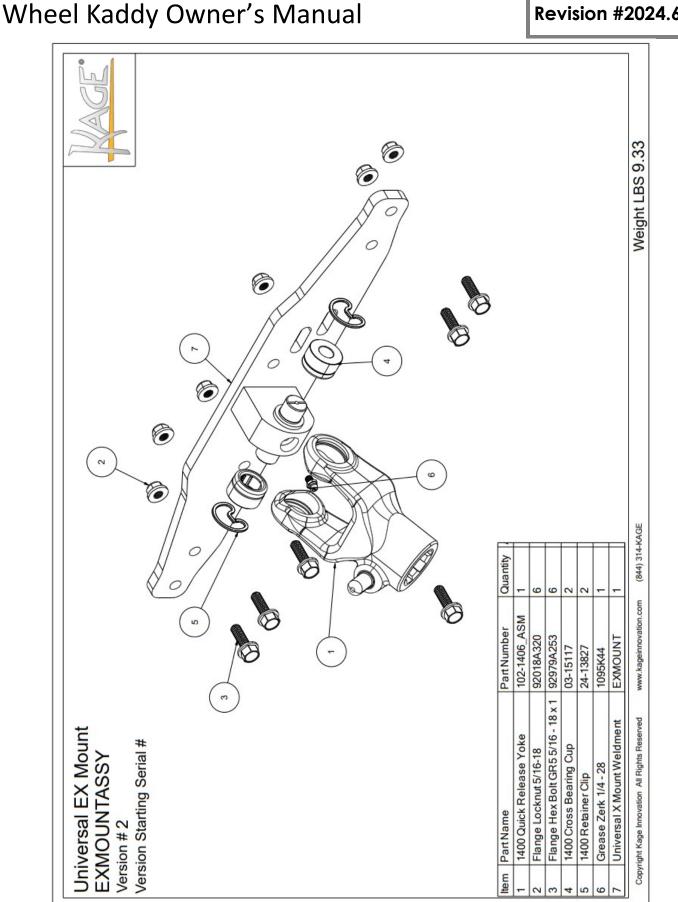


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## Wheel Kaddy Owner's Manual

#### Mower Model / Mount and Tire Option Recommendations

Wheel	Kaddy	360
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Mower Model	Rec. Kage Mount#	Rec. Tire Option
ExMark X-Series	EXMOUNTASSY	10" (11X4.00-4 3PC RIM)
ExMark S-Series	EXMOUNTASSY	10" (11X4.00-4 3PC RIM)
FERRIS	UNIVERSAL	10" (410/350-4 3PC RIM)
SNAPPER PRO	UNIVERSAL	10" (410/350-4 3PC RIM)
SNAPPER PRO SW35	UNIVERSAL	10" (410/350-4 3PC RIM)
JOHN DEERE	EXMOUNTASSY	10" (410/350-4 3PC RIM)
TORO	EXMOUNTASSY	10" (410/350-4 3PC RIM)
SCAG	UNIVERSAL	10" (410/350-4 3PC RIM)
HUSQVARNA	EXMOUNTASSY	10" (11X4.00-4 3PC RIM)
GRAVELY	UNIVERSAL	10" (11X4.00-4 3PC RIM)

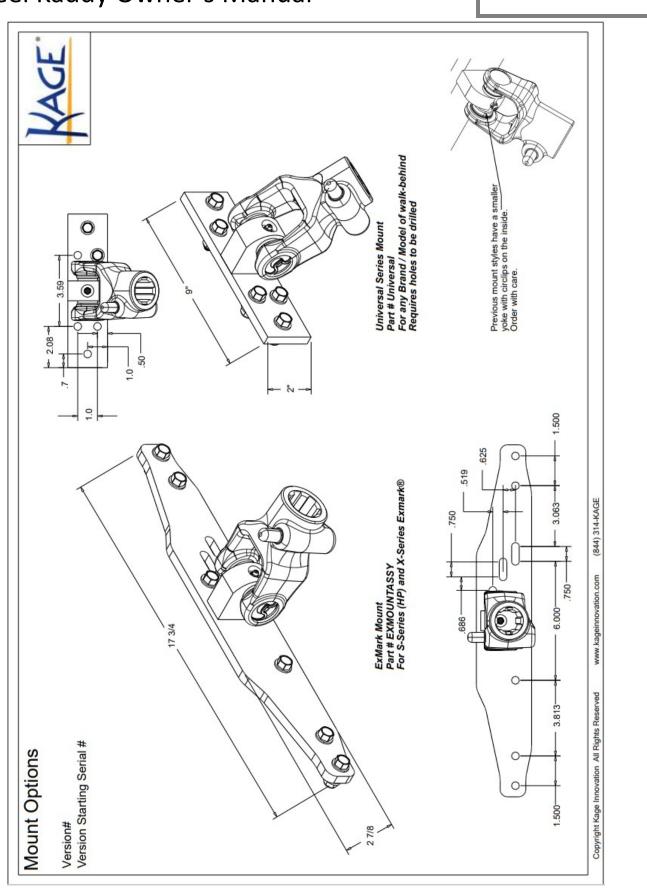
**NOTE:** The UNIVERSAL mount may be easily adapted to a variety of mower models not listed here. Please refer to the "<u>Informational / Specification Drawing Wheel Kaddy 360 Specs</u>" for proper mounting height and tire sizing information. Generally the tire size should be 2" less than the mounting height.

## Wheel Kaddy 250/500

Mower Model	Rec. Kage Mount#	Rec. Tire Option
ExMark X-Series	EXMOUNTASSY	13" (13X5.00-6 3PC RIM)
ExMark S-Series	EXMOUNTASSY	13" (13X5.00-6 3PC RIM)
FERRIS	UNIVERSAL	13" (13X5.00-6 3PC RIM)
SNAPPER PRO	UNIVERSAL	13" (13X5.00-6 3PC RIM)
SNAPPER PRO SW35	UNIVERSAL	13" (13X5.00-6 3PC RIM)
JOHN DEERE	UNIVERSAL	13" (13X5.00-6 3PC RIM)
TORO	UNIVERSAL	13" (13X5.00-6 3PC RIM)
SCAG	UNIVERSAL	13" (13X5.00-6 3PC RIM)
HUSQVARNA	UNIVERSAL	13" (13X5.00-6 3PC RIM)
GRAVELY	UNIVERSAL	13" (11X4.00-4 3PC RIM)

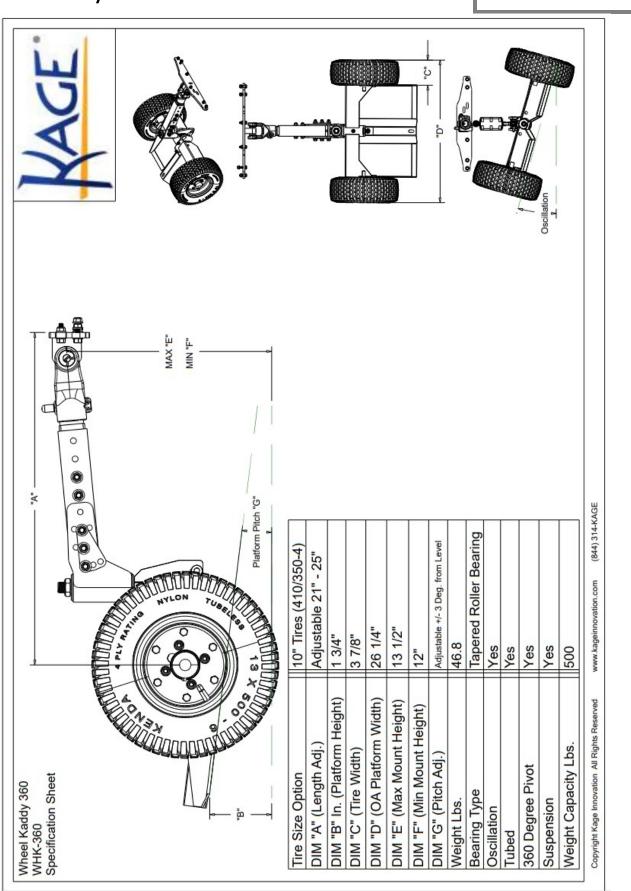
**NOTE:** The UNIVERSAL mount may be easily adapted to a variety of mower models not listed here. Please refer to the "Informational / Specification Drawing Wheel Kaddy 250 Specs" for proper mounting height. Since the 250/500 series does not turn underneath the mount, the tire size does not contribute to the decision. The tire sizes for the 250/500 series are merely a matter of preference and cost. The 3 piece wheels with tapered roller bearings are available as an upgrade.

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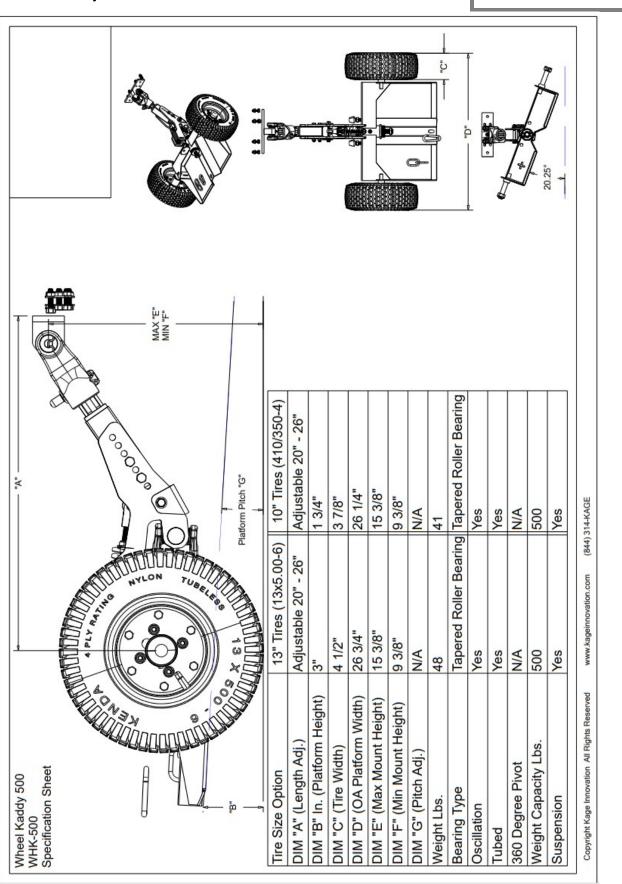




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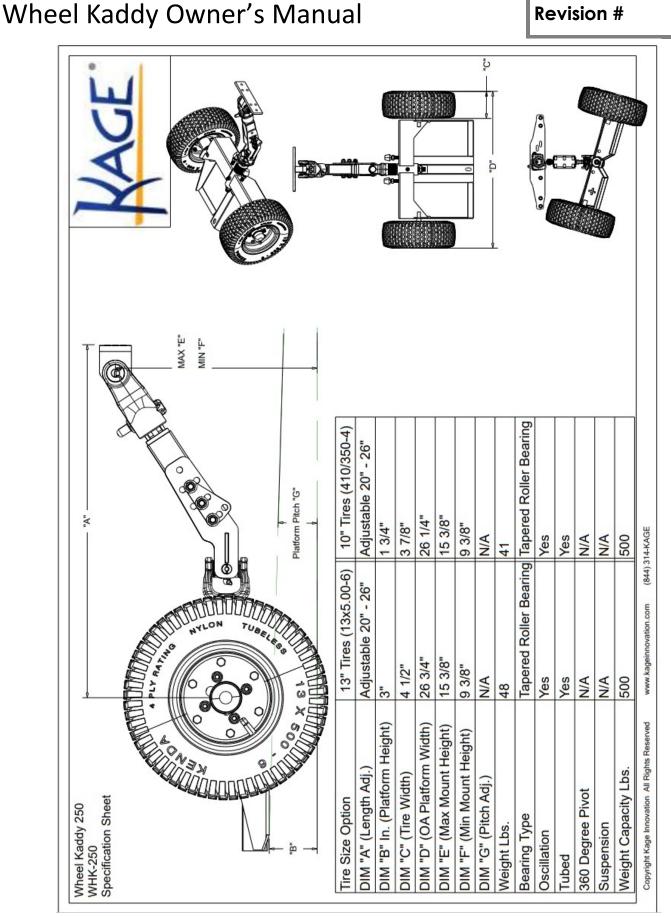


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## Wheel Kaddy Owner's Manual

#### Kage Limited Warranty

Kage Innovation will repair or, at the option of Kage Innovation, replace those parts which prove defective due to material or workmanship under normal use for a period of two (2) years from the date of retail sale or date of invoice from Kage Innovation, whichever is later. Expendable items, such as rubber, or polyurethane are excluded from this warranty.

Kage Innovation warrants that the products manufactured by us to be in accordance with our published specifications or those specifications agreed to by us in writing at the time of sale. The obligation of Kage Innovation is expressly limited to repairing or replacing, at its option, any product not meeting such specifications within the warranty period.

LIMITATIONS OF WARRANTY AND DAMAGES

KAGE INNOVATION MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.

IN NO EVENT SHALL KAGE INNOVATION, BE HELD LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR DAMAGES RESULTING FROM MISAPPLICATION, ABUSE, MISUSE, ACTS OF GOD, UNAUTHORIZED ALTERATION OF THE KAGE INNOVATION PRODUCT, OR SUBSTITUTION OF PARTS NOT AUTHORIZED IN WRITING BY KAGE INNOVATION.

To obtain service under this warranty the consumer must return the defective Kage Innovation product to Kage Innovation directly, the dealer from which the product was purchased or to any authorized Kage Innovation dealer, transportation and freight charges prepaid. Only Kage Innovation dealers are authorized to perform the obligations under this warranty with pre-authorization from Kage Innovation.

No person is authorized to alter or amend this warranty or to create any warranty other than that set forth herein without the expressed written consent of Kage Innovation.

Kage Innovation reserves the right to make improvement changes on any of our products without prior notice.

#### **Revision Comments**

Date	Name	Description
6/20/24	Josh	First Revision
4/21/2025	Josh	Added bolt pattern dimensions to mount options, page 31