



Parkit360°

Transformer

Owner's Manual

Introduction

We know you're busy, and need to get your trailer moved. Now. So with that in mind, we've kept these instructions as brief as possible, but they are important, so please take a moment and check them out.

We want to make sure that you enjoy years of safe and trouble-free operation with your Parkit360 Transformer.






Transformer with Ball Mount option installed



Transformer with Kingpin Adapter

In The Box

The Parkit360 Transformer is shipped in one box on a pallet. The main Parkit360 Transformer unit will be fully assembled with the exception of the wheels. In addition to the main unit there will be several other boxes with various parts.

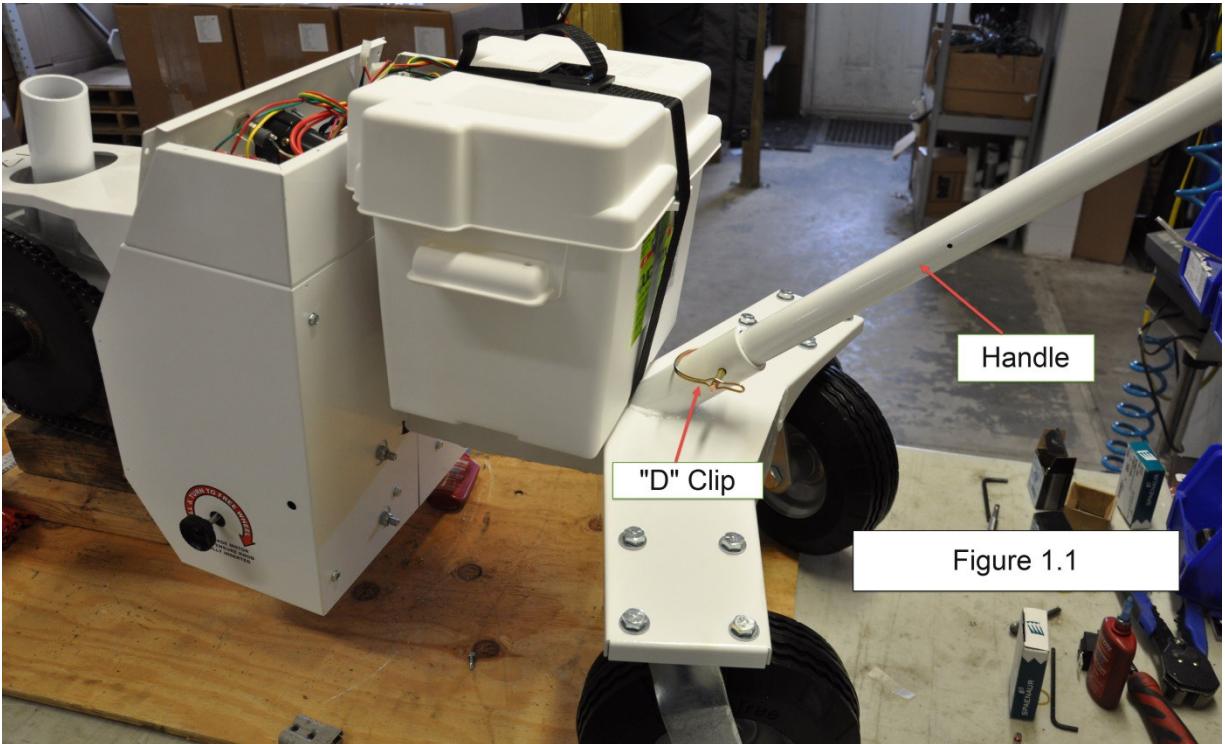
<p>Parkit360 Handle tube, tightening bar and parts bag</p>	 A photograph showing a long, thin, silver-colored metal handle tube and a shorter, thicker, silver-colored metal tightening bar lying on a green artificial grass surface. Next to them is a clear plastic parts bag with a label that includes the '360°' logo.
<p>Kingpin Adapter (see picture on previous page) Parts shown here: stabilizer bars, and hardware</p>	 A photograph of various metal parts for the Kingpin Adapter laid out on a light-colored wooden surface. The parts include two long, black stabilizer bars, several metal brackets and clips, a black circular ring, and various bolts and nuts.
<p>Ball Mount Kit (when purchased with Ball Mount Kit Option: includes: Ball Mount, Ball, Spring Clips, and Tightening Bar)</p>	 A photograph of the Ball Mount Kit components on a brown cardboard surface. It includes a long, thin metal bar, a black ball mount, a silver-colored ball, a black spring clip, and a clear plastic parts bag containing additional hardware.

Assembly

Please follow these steps to assemble the Parkit360 Transformer using the assembled unit on page 2 as a guide:

Main Unit:

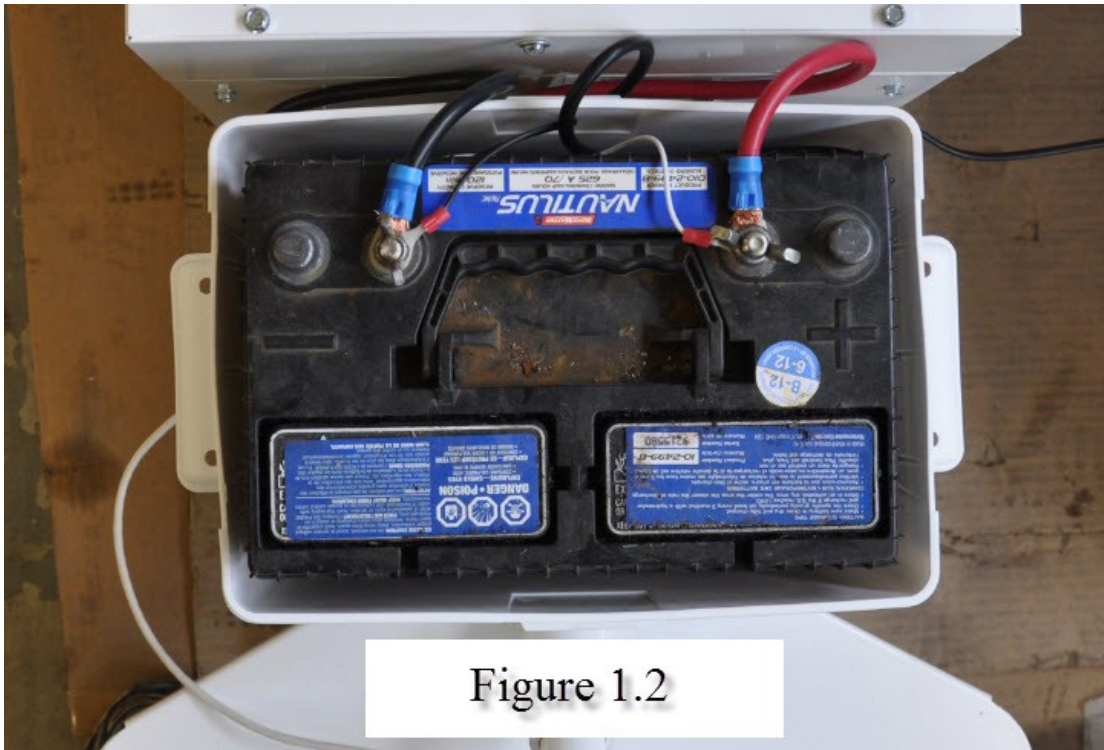
1. Install the 2 rear wheels using the supplied 1/2" bolts. If you have a torque wrench, set it to 80 ft-pounds. If not, ensure the bolts are very snug (similar to installing a tire on your car). Insert the handle tube into the main unit as shown in Figure 1.1. Secure the handle with the "D" Clip.



2. Install the battery (not included) in the battery box. Attach the red cable to the positive terminal of the battery, and the black cable to the negative terminal of the battery as shown below in figure 1.2.

Note: The small White and Black wires in the picture are for the battery charger. The White wire is Positive (+) and the Black wire is Negative (-).

Note: The Parkit360 requires a 12-Volt, Group (size) 24 deep-cycle RV or Marine battery. The battery is not included with the unit, and must be purchased separately.



Transformer Wireless Remote Control Handle:

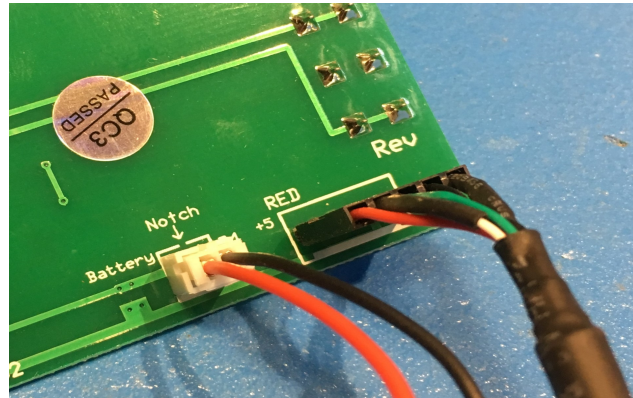
The Control handle is now wireless. Simply remove the “D-Clip” at the top of the mounting tube and the control handle can now be operated as a remote.

Please note: Due to shipping regulations, the battery inside the control handle is not connected. The handle cover is packaged separately inside the box.

Also, again due to shipping regulations and safety, the included lithium battery is only charged to about 30% capacity, so it is recommended to be charged over night before first use.

Initially the control handle will need to be assembled as follows:

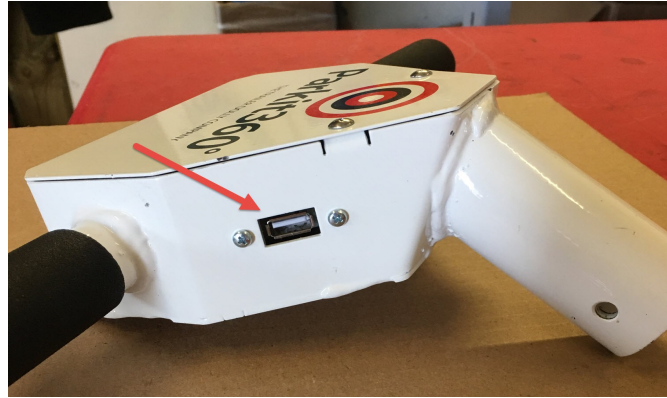
1. Connect the battery and charger cable as shown below. Please note that there is a notch in the battery connector to ensure proper polarity. Also align the charger cable with the red wire end as indicated on the circuit board.



2. Once the battery and port cable connections have been made, position the handle cover over the handle and secure the cover to the handle using the four provided screws, as shown below:



The supplied USB cable can be connected to the charging port on the handle, and any standard USB phone charger can be used to recharge the battery. The USB charge port is on the side of the handle, as shown below:



When charging, the “Battery Charge” light will be red, and will turn to green when the battery is fully charged.

Safety

Please read the following safety notes before operating for the first time.

The Parkit360 Transformer is not recommended for use on hills due to the possibility of a runaway trailer. The Parkit360 has been tested on grades up to 4%. Operation on grades steeper than 4% is not recommended, and could result in damage, injury, or death.

When using the Kingpin Option, the supplied stabilizer bars **MUST BE USED** and installed properly. Failure to do so could damage both the unit and your trailer.

The Parkit360 Transformer supports a maximum Kingpin weight of 2,500 lbs.

The maximum safe trailer weight for this unit is 16,000 lbs.

The unit's main wheels operate in two modes: engaged, and freewheeling. The freewheeling mode is to make the unit easy to move into position. The wheels must NOT be in freewheeling mode when under load, or a runaway trailer could result.

When charging the battery, it is important to keep the battery level; otherwise, acid could seep out of the battery during the charging process.

Operation

Turning the Unit On and Off:

To turn on the unit, press and hold the On-Off button for two seconds.

The Blue LED will illuminate to indicate that the unit is On. After about 2 seconds the voltmeter will also turn on and provide you with a real-time measurement of the battery voltage.



Wireless Remote Control Handle Operation:

For the following instructions, all of the directional terms used are from the point of view of the user standing behind the unit during normal operation, for example, when we refer to "Forward" this means that you are walking forward with the unit, which would mean that the trailer is backing up.

The Parkit360 Transformer unit is controlled using two, three-position switches. For both switches, the middle rocker position is off, or neutral.



Pressing the top of one of the wheel switches will result in that wheel moving the unit forward, and pressing the bottom of one of the wheel switches will result in that wheel moving the unit in reverse.

The switches may be operated individually, or together.

The wireless system in the handle is programmed to go to sleep after 30 seconds of inactivity. This is normal, and is done to conserve the internal rechargeable battery.

The wireless system will also go to sleep if the power is turned off.

The handle control system will “wake up” as soon as one of the rocker switches is pushed.

The blue “Wireless Sync” LED in the handle control system will be on to indicate successful wireless communication between the transmitter and receiver.

If the receiver is not on, the blue LED will blink slowly.

The blue light will blink rapidly if the battery in the handle is getting low and needs to be recharged.

Trailer Brakes:



The Parkit360 Transformer features a connection for your trailer brake system. When the Transformer is powered on, the trailer brakes will be engaged automatically whenever the unit isn't moving.

Engaging the Wheels and Freewheel mode:



The knobs on the sides of the unit are used to change the wheels from engaged to freewheeling mode.

Pull and turn the knobs (clockwise) to put the unit into freewheeling mode.

Pull and turn the knobs (clockwise) to re-engage the wheels.

To engage the wheels, it's important that the knobs return to the fully seated position or damage may occur to the transmission. When the unit is new, you may need to move the unit, rocking the wheels back and forth a bit to make sure it's properly seated.

Hooking up to the trailer:

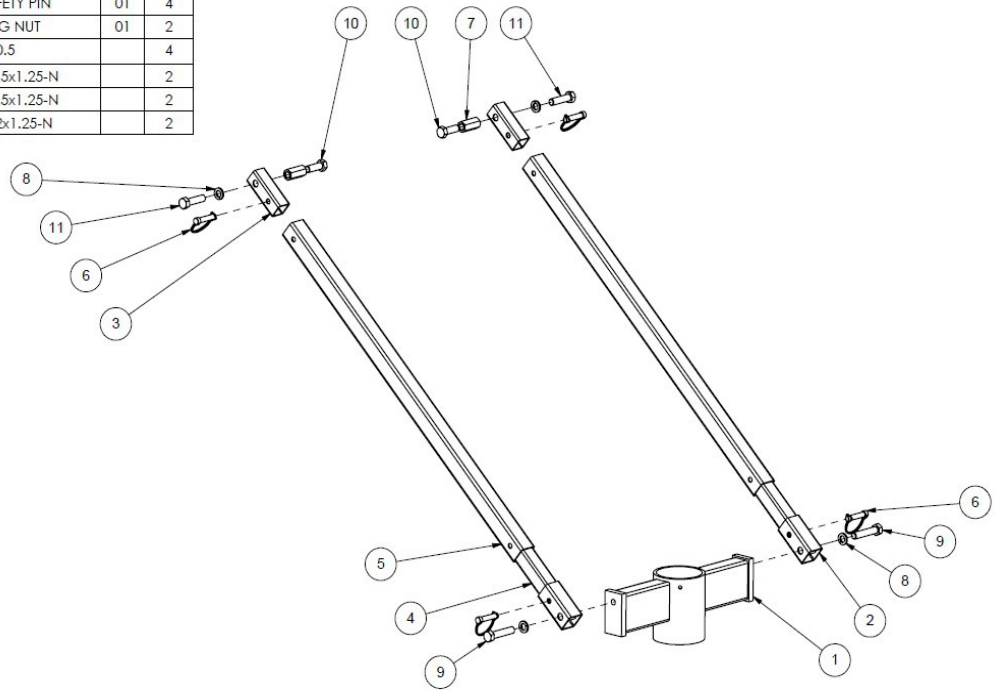
If you use a Teflon thrust ring on your Kingpin, it must be removed before use.

1. Connect the Kingpin Adapter to the Kingpin on the trailer and secure it in place with the supplied locking U-Clip as shown. Once the U-Clip is in place, secure it with the attached locking pin.

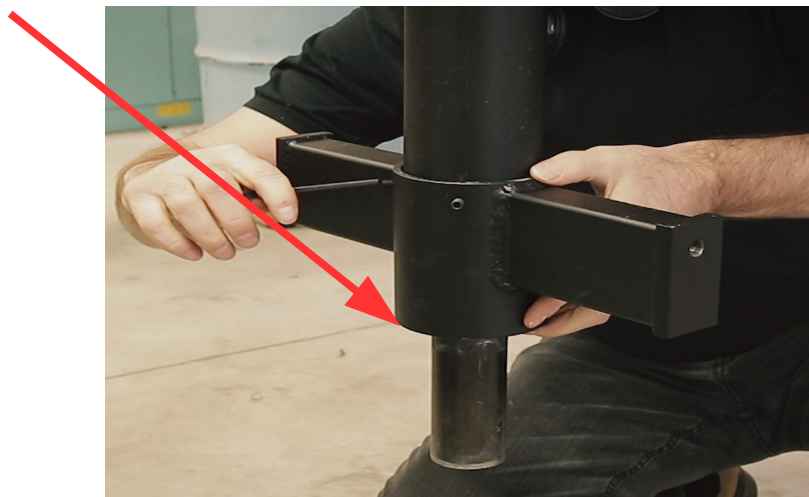


2. Attach and install the stabilizer bars. See Assembly drawing on the next page showing the components of the Kingpin Stabilizer kit.

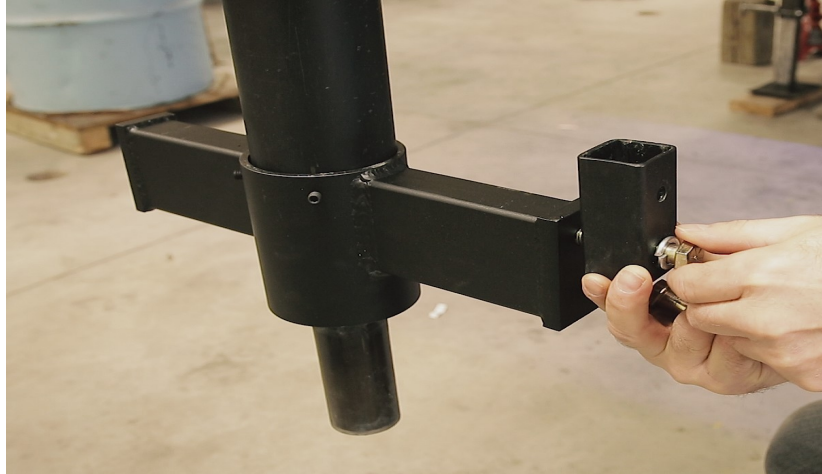
ITEM NO.	PART NO.	DESCRIPTION	REV	QTY.
1	02080-00	MOUNT RING TUBE ASSY	02	1
2	02088-00	PIVOT TUBE ASSY	01	2
3	02089-00	TRAILER MOUNT TUBE - ASSY	01	2
4	02084-00	INNER TUBE	01	2
5	02085-00	OUTER TUBE	01	2
6	02033-00	3/8" COUPLER SAFETY PIN	01	4
7		1/2-13 COUPLING NUT	01	2
8		Regular LW 0.5		4
9		HBOLT 0.5000-13x2.5x1.25-N		2
10		HBOLT 0.5000-13x1.5x1.25-N		2
11		HBOLT 0.5000-13x2x1.25-N		2



- First step is to install the "Mount Ring Tube" on the Kingpin as shown on the picture below. Ensure the bottom of the tube is flush with the bottom of the larger section of the Kingpin adapter. Use the supplied Allan key to tighten the 2 set screws.



4. Next install the Pivot tubes to the ends of the Ring mount tube, as shown in the picture below (one on each side). Use the supplied 2.5" long 1/2" bolts and lock washers. Tighten the bolts, but leave them loose enough for the pivot tubes to rotate. They will be securely tightened at the end of the installation.



5. Next -locate empty holes in the Kingpin plate on your trailer. The 1/2" coupler nut can be installed using the 1-1/2" bolts, lock washers and flat washers (one on each side). See picture below. If there are no spare holes on the Kingpin plate, you can remove two of the existing bolts (one on each side) and install the coupler nut in it's place.



6. Now the trailer mount tube can be fastened to the 2 coupler nuts installed in the previous step. Use the supplied flat and lock washers with the 2" long 1/2" bolt. Similar to step #4, tighten the bolts enough to be snug, but still allow the trailer mount tube to rotate.



7. The outer tube can be fastened to the trailer mount tube, and the inner tube installed inside the outer tube. Both ends will be secured in-place using the supplied "D" clips.



8. The inner and outer tube must be fastened together to prevent any movement for proper operation of the stabilizer bars. Guide holes are pre-drilled in the outer tube. A new hole must be drilled through the inner tube to allow the D clip to fasten the 2 tubes together. This hole will only need to be drilled on the initial installation (1 hole in each set of tubes- left and right). The hole needs to be big enough to allow the 3/8" D pin to be inserted. We recommend a 13/32" bit. Use the hole on the outer tube as a guide, drill through the inner tube. It is easier to drill a hole from each side of the tube instead of trying to drill completely through in 1 step. Once the holes have been drilled in both sets of tubes, the D clip can be installed.



9. Last step is to go back and tighten the 4 bolts on the top and bottom pivot tubes. It should look the same as the picture seen below.



10. You are now ready to connect the Trailer to the Transformer.

Raise the front of the trailer using the landing legs, until the bottom of the kingpin adapter is high enough to clear the top of the receiver tube on the Transformer. Move the Transformer under the kingpin adapter, and once they are aligned, lower the trailer onto the Transformer. Continue to lower the trailer until all the weight of the trailer is on the Transformer and the landing legs are slightly raised off the ground (or blocks). If the location is not flat level ground, it is highly recommended to connect the 7 pin trailer connector to the Transformer and turn on the power switch. This will engage the trailer brakes to prevent it from moving during this step. It is also a good idea to ensure the 2 motors on the Transformer are not in "free-wheel" mode and are locked in-place. See page details on page 11.

11. You are now ready to move your trailer!

Notes

Battery

The Parkit360 requires a 12-Volt, Group (size) 24 deep-cycle RV or Marine battery.

The battery is not included with the unit, and must be purchased separately.

The Parkit360 Transformer features an on-board charger to charge the battery once it's installed in the unit.

To charge the battery, plug in the charger plug into any 120V outlet. The charging light (located on the right side of the unit) will be yellow when the unit is charging, and will turn green once the battery is fully charged.

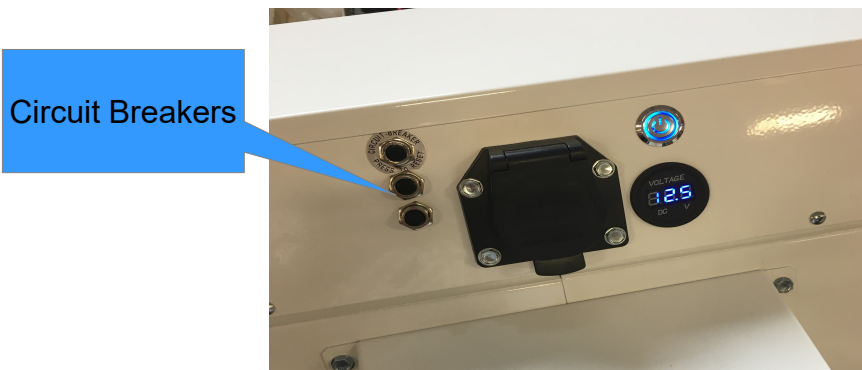
The charger uses a slow charge, so it may take up to 14 hours to charge the battery depending on the condition of the battery.

Note: When charging the battery, it is important to keep the battery level; otherwise, acid could seep out of the battery during the charging process.



Circuit Breakers:

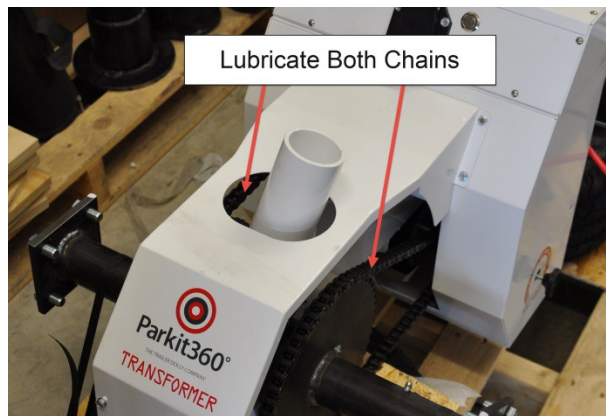
There are 3 circuit breakers mounted on the control module beside the 7 Pin trailer connector. The top 2 breakers are for the motors, the bottom breaker protects the control circuit and trailer brakes. (please note, this breaker sticks out more than the 2 motor breakers. This is normal. If the breaker trips, the reset button will extend up to 1/2" from the panel -it will be obvious).



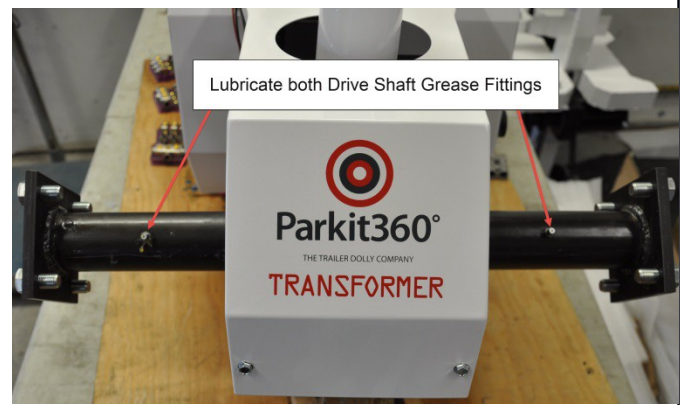
Maintenance

Maintenance on the Parkit360 should be performed annually under normal use conditions. If the unit is used more frequently, maintenance should be performed more often. The maintenance items are as follows:

1. Lubrication of chain with an approved chain lube



2. Greasing of the drive shaft bearings



3. Greasing the Kingpin Adapter Receiver



Proper maintenance will help ensure years of trouble-free use.

Warranty

The Parkit360 comes with a 2-year replace or repair warranty.

The warranty will cover any factory defects on the Parkit360.

The warranty does not cover:

1. Peeling or damaged paint
2. Motor burnout due to misuse
3. Labour charges on the unit itself or any other labour charges
4. Shipping charges

Parkit360 and SPH Welding and Fabrication are not responsible for any related labour or damages to any equipment, property, or personal injury.

As a precaution, we ask that you please keep shipping and packing materials for a minimum of 30 days in case the unit needs to be returned.

Troubleshooting

If you are experiencing any issues with your Parkit360, please contact us:

By phone at: 1.888.926.5517 ext.4

By email at: sales@parkit360.com

FCC Regulatory Information (For wireless remote control)

Contains RF Engine FCC ID: U9O-RF200

Contains RF Engine IC: 7084A-RF200

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference,

and (2) this device must accept any interference received, including interference that may cause undesired operation.