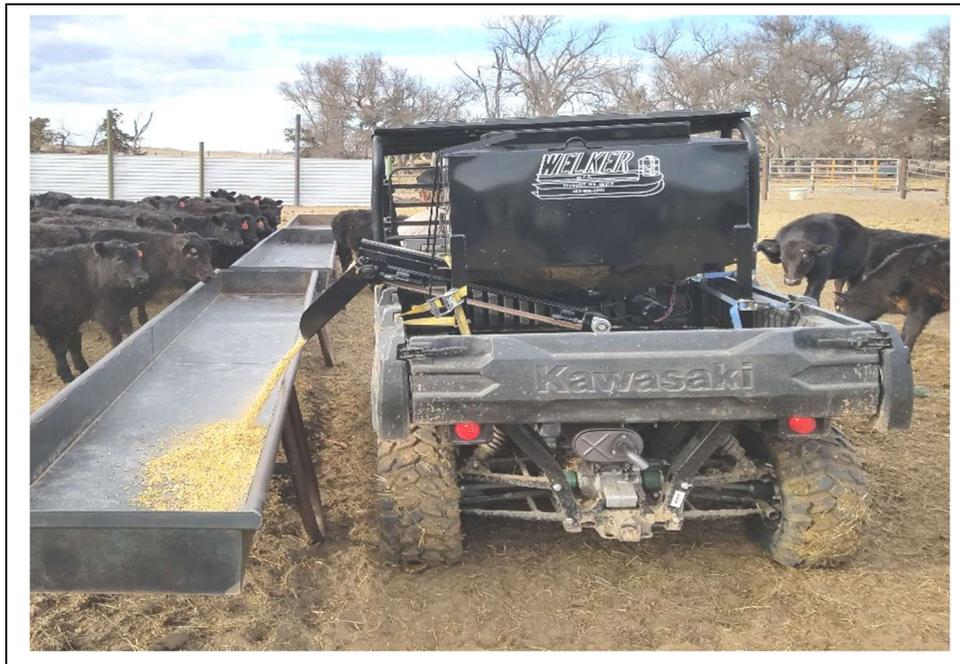


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Manual for Your UTV Welker Cake Feeder  
Plug Kit with No Counter



# **MOUNTING CAKE FEEDER**



- You will need: four 3/8" X 3" eyelets and four 5/16" hook-to-hook turnbuckles & eight nuts.
- Locate the tie-down hook points in your ATV box.
- Position the caker in the ATV box.
- Screw the turn buckles to their maximum length; attach the turn-buckle to the hook point in the ATV Box and determine the height of your eyelet bolt. Now, drill a hole in the leg of the caker where you will attach the eyelet bolt.
- Place one nut on the eyelet, place eyelet through the hole in the caker leg, (eyelet loop on the outside,), place a nut on the eyelet to tighten (You will have a sandwich effect on the leg), hook the turn-buckles in, tighten everything into place.

## **CAUTION!**

UTV cake feeder **SHOULD NOT** be operated on unlevel terrain!

## UTV-SIDE PLUG KIT



## UTV WIRING INSTRUCTIONS

You will only be wiring the UTV (female) side of your UTV cake feeder. When finished; all that will be needed to remove the cake feeder from your UTV is unplugging the male 4-prong trailer plug and lifting it off the UTV.

To do this: first; mount the plug plate to the bed of the UTV where the male 4-prong plug can easily reach, and is easy to plug-in & unplug.

Next: take the red hot wire, attach the eyelet that is connected to the in-line fuse holder the **positive terminal** of the battery. Attach the black ground wire to the **negative terminal** of the battery. Then; run both wires back to the plug mount plate.

Run your push button cord from the cab of the UTV back to the 4-prong plug at the back of the cab, where the male trailer-plug end of your feeder meets. Lastly: connect all the wires to the female 4-prong plug as shown in the wiring diagram on the next page.

Black Ground Wire	B
Red Hot Wire w/ Inline Fuse Holder	G
Push Button	
Black Wire	R
White Wire	W

# UTV-CAKER BELT INFORMATION

This picture shows how to measure for belt-length on Welker Caker



Chute End

TO

Motor End

To obtain the correct length belt for your cake feeder: measure the center of roller bearing in the front to the center of the roller bearing in the back, on the left side of the feeder as shown above. The formula for the correct belt length is: Distance Between Roller Bearings \* 2 + 6 inches

The standard UTV belt is 6" wide & 78" long with a square-tube belt splice



## **Can I splice my broken belt?**

We do not recommend splicing your belt.

Both square-tube and round-tube belt splices take a special tool to install properly!

Plus; you would likely not have enough length after you splice your belt unless you add length into the belt when adding the new splice. This would require setting two new splices instead of just one.

### **My cake feeder is full; how do I change or fix a broken belt?**

If you can get to the splice point, to the chute end of your feeder, you can try attaching the new belt to the splice point and carefully feed the new belt through to the other side.

### **The Belt is Tracking Off Center! (not running straight)**

Your belt was aligned correctly at installation. However; as you use your feeder, the belt may start to shift to one side or the other.

Make sure the drive roller is clear of any twine or other obstructions to prevent shifting.

Determine which side your belt is moving toward. The belt will shift away from the tight side. You may need to loosen or tighten the bearing cages adjustment nuts on opposite sides of your feeder to work your belt back into to the center of your tube.

Take a 1-1/8" wrench to the 3/4" ready bolts on the bearing cages; loosen the nut on the bearing cage (on the side the belt is moving toward) then tighten the nut on the other bearing cage (on the side the belt is moving away from), this will help the belt travel back into place as well as run straight (if properly adjusted).

# **UTV MOTOR & GEAR-BOX COMBO**



This unit runs on a 1/8 HP 12 Volt motor/gear box combo which is connected to the UTV by the hot wire and an inline fuse holder, with a 20-amp fuse.

## **My motor is losing power, running slowly and lugging down**

Check your bearings on your rollers, they should be clear of any twine, or wire or dirt.

If they are turning freely, then what are you using for a hotwire? Is it heavy enough to carry the correct amount of voltage back to the cake feeder?

# **DIODE & SOLNOID**

The Diode is an electrical shock absorber. We recommend all Cakers have a Diode.  
The Diode is attached to the solenoid.



## **Installing caker for the season & I can't get it to run.**

First test to make sure that the motor is in working condition.

To do this you need to disconnect the **Hot Wire** on the caker from the solenoid and touch it to the Hot wire post on the motor. If the motor runs the motor is fine, it may be the solenoid or the push button. Reconnect the hot wire to its original post.

Next test the **push button** by creating a jumper wire from the smallest post on the **solenoid** to the post on the **solenoid** where the **hot wire** from the battery connects.

<b>Motor runs:</b>	Bad push button, or damaged push button cord
<b>Solenoid clicks:</b>	Bad Ground
<b>Nothing happens:</b>	Bad Solenoid, or No Ground

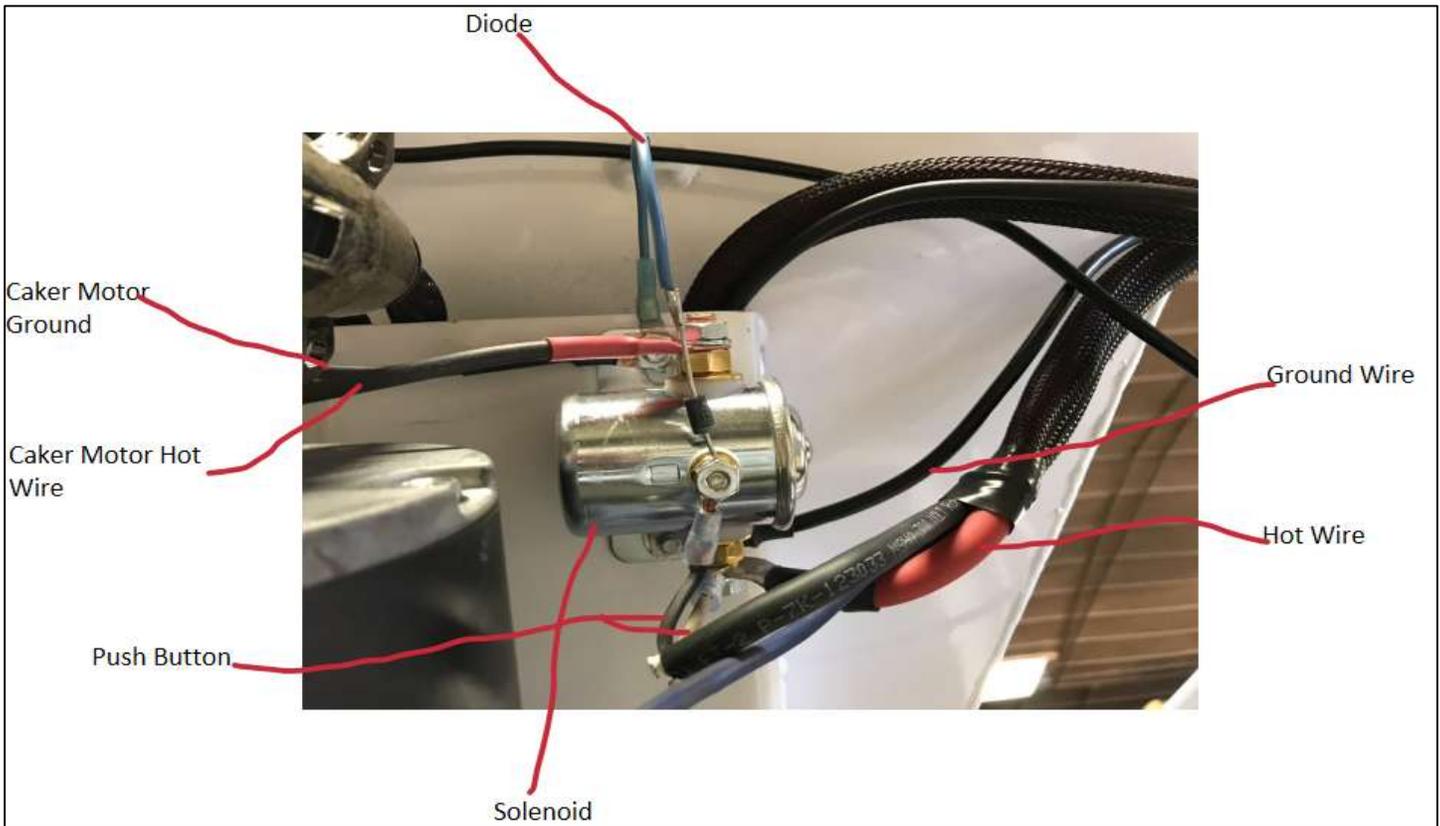
### **Cake Feeder won't start; solenoid only clicks!**

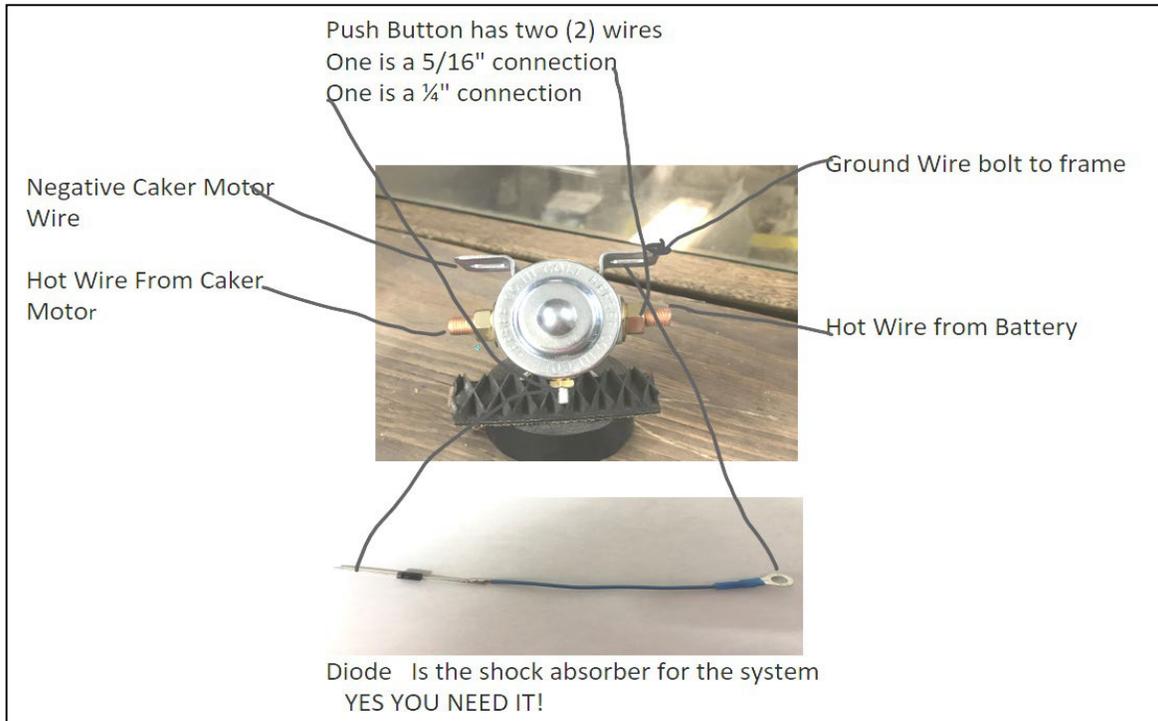
You most likely have an incomplete or bad ground. Your first step is to test this by taking a set of jumper cables, then finding a clean, rust and paint-free spot on the caker. Connect both clamps from one end of the cables here, then connect the opposite end of the jumper cables to your pickup frame. If your caker then begins to work normally, you have a bad ground.

Check to ensure that your plugs are bolted securely where you have chosen to mount them. If the plugs are not secure, an incomplete ground can occur. Check for any ice or mud, or rust build-up that could be impeding the ground as well.

To alleviate your bad ground issue, you can install a quick jumper wire on your female gold plug, if you have a plug kit. Simply put a new ground on with an eyelet and bolt it with the mounted plug, and the other end of the wire to your pickup frame. Your plugs, when connected, will ground back to your pickup.

**My push button gets hot when I use it!** All the power for your system is going through your push button!





- Connect the Solenoid to the caker with two 1/4" bolts.
  - To the top 5/16" bolt on the solenoid: connect the caker motor hot wire (RED HEAT SHRINK ON EYELET).
- To the bottom 5/16" bolt on the solenoid: connect **Heavy Red Wire** coming from the gold plug and the 5/16" eyelet from the push button wire.
- To the small 1/4" connection on the Solenoid: connect the wire end of the diode and the small eyelet from the push button.
- To the top Solenoid frame bolt: connect the eyelet on the diode and the caker motor ground wire (BLACK HEAT SHRINK ON EYELET).

**Frequent Q/A:**

Our Cake Feeders are not painted on the inside.

We keep sirens on hand in the office. Please follow the suggested on/off intermittence in order to avoid burning your siren up.

**See more of our trouble shooting and parts pictures on our website:**

**[www.welkermanufacturing.com](http://www.welkermanufacturing.com)**

**Thank you all for your business with our small-town operation!**

**We work HARD for you!**

