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Manual for your Welker Cake Feeder

Standard Caker No Counter

Mounting Your Caker

Flatbed Model:

- You will need 4-3/8” x 1-1/2” Bolts with large surface washers and nuts or 4-1/2” x 1-1/2” bolts with large surface washers and nuts. We recommend using 4 large surface washers on the bottom side of the flatbed to prevent your bolts from pulling through your flatbed.
- Place your caker on the flatbed to determine placement of your bolt holes.
- You will want the bolt to be on the inside of the cakers angle iron runner. Mark your hole placement,
- Drill 4 holes through your caker runner and the flatbed. Drop a bolt in each hole as you go to prevent your caker from moving as you drill.
- On the underside of the flatbed, attach your washers and nuts to each bolt and tighten. (Washers and nuts can be tack welded to the flatbed frame to facilitate easy removal andreinstallation of your caker in the future.)
- When caker in not on the flatbed leave the bolts in place to keep hole clean and dirt free.

Mounting your Cake in the Bed of your Pickup

Over the Side Caker:

- You will need 4-3/8” x 2” bolts with large surface washers and nuts or 1/2” x 2” bolts with large surface washers and nuts
- We recommend using 4 large surface washers on the bottom side of the pickup box to prevent your bolts from pulling through.

- Place your caker in position to determine placement of your bolt holes.
- Drill the 4 holes through your caker runner, the pickup box, and into the pickup frame, dropa bolt in each hole as you go to prevent your caker from moving as you drill.
- On the inside of the pickup frame, attach a washer and nut to each bolt and tighten.

We have 2 styles of mounting brackets you can use to mount your plugs to your headache.
A Plug Plate is included with the wire Harness. **Plug Boxes are available for purchase!**

Pickup Side No Counter Plug Kit

You will only be wiring the female end to your pickup, when installing your Caker.

Mount the Plug Plate on your headache rack, in the vicinity of the motor end of your caker to where the male ends on the caker plug will easily reach the plate. This plate can either be welded on or bolted on.

Run your **Hot Wire** along the frame of your pickup to the engine compartment, secure inplace.

A. Strip back the **Hot Wire** a 3/8" and solder it to eyelet that is attached to the breaker Attach the eyelet back onto the breaker terminal marked “AUX”

B. Attach the short wire bolted to the breaker terminal marked “BAT” to the pickup battery,and then mount the breaker in place under the hood in the engine compartment.

C. Run your push button cord from the front of the pickupcab to the Plug Mount Plate.

D. Connect the wires to the silver female 4 prong plug as shown in the wiring diagram provided.

E. Secure the female plugs in your Plug Plate.

Empty	**R**
Empty	**W**
Push Button	
Black	**B**
White	**G**

I Need a New Belt!

Standard Belt Lengths are 102" 126" 150"

What we need to know before we can help you!!!

Do You have a Flatbed Feeder, or an Over the Side Feeder?

Do You Have a Square Tube Feeder or A Round Tube Feeder?

Square Tube Feeder

Round Tube Feeder

Over the Side Feeder

Square Tube Belt

Round Tube Belt

Over the Side Belt

Belts Are 9-7/8” Wide.

Belt Splicing

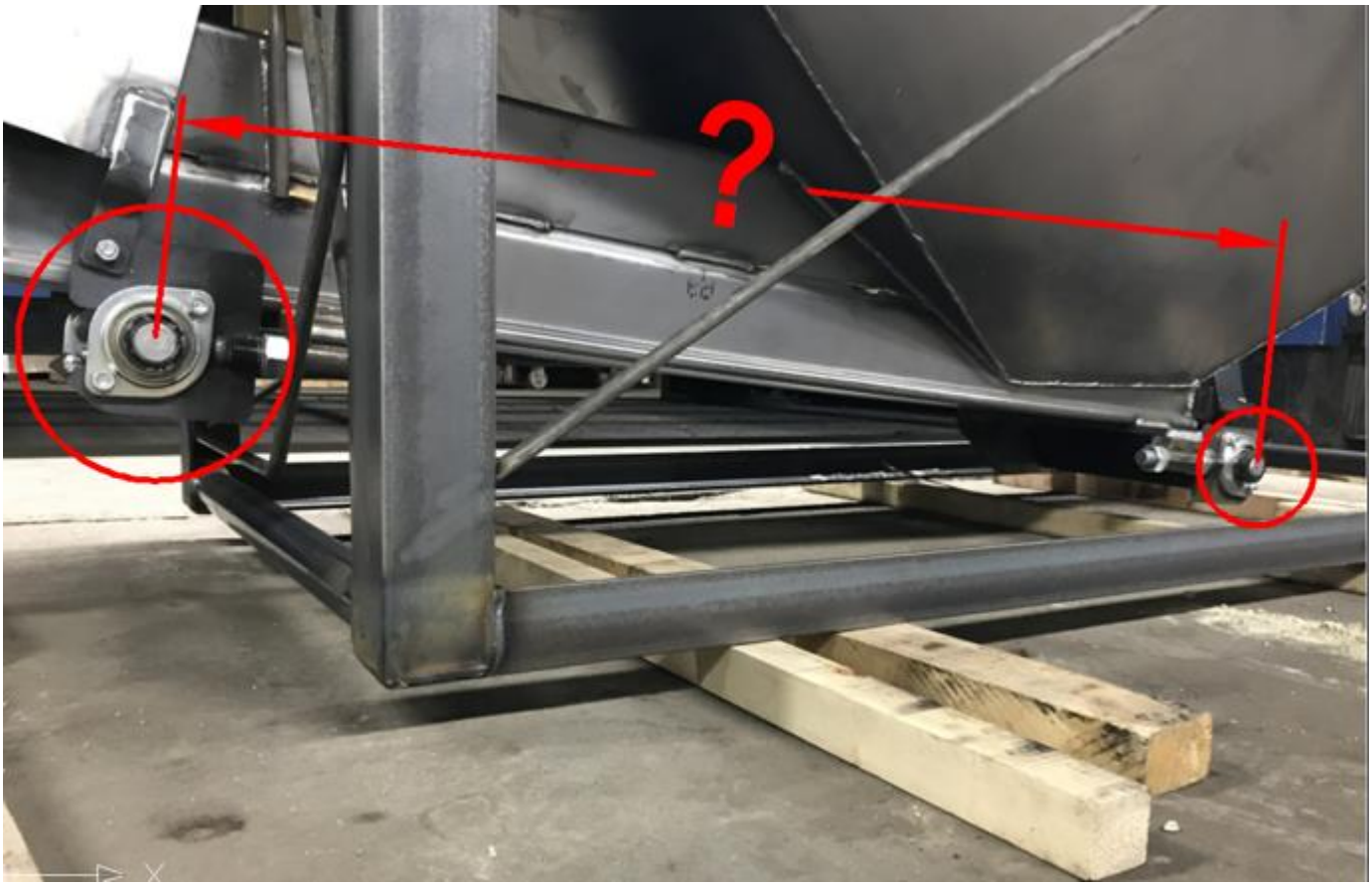
I need a new belt:

What size belt do I need:
Do you have An Over-the-side Caker, or Flatbed Caker?

Do you have a square tube Feeder or Round tube feeder?

Over-the-side Square Tube feeders have a standard 102” belts that is cleated for the incline.

Measure Center of roller bearing in the front to the center of the roller bearing in the back, onthe left side of the feeder.
Formula is Distance between roller bearings X 2 plus 6 inches.All
Belts are 9-7/8” wide



Chute End to Motor End

Can I splice my broken belt?

WE do not recommend splicing your belt.

Both Square tube and round tube belt Splices take special tool to install properly!

You are likely not going to have enough length after you splice your belt unless you add length into the belt this would require setting 2 New splices.

My Feeder is full how can I change or fix a broken belt?

If you can get to the splice point, you can try attaching the new belt to the splice point and carefully feeding it through to the other side.

Belt Tracking off center! (Not running Straight)

Your belt has been aligned correctly at installation.

As you use your feeder, your belt may start to shift to one side.

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, and tighten, the nut on the bearing cage, on the side the belt is moving away from. This will cause the belt to travel back into place.

Over-the-side Square Tube feeders have a standard 102” belt that is cleated for the incline.

My Motor is losing power and 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, what are you using for a hotwire?

We have found you really do need the Heavy Welding cable that was original to your caker to carry the proper voltage to the motor.

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

Installing caker for the season and 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.

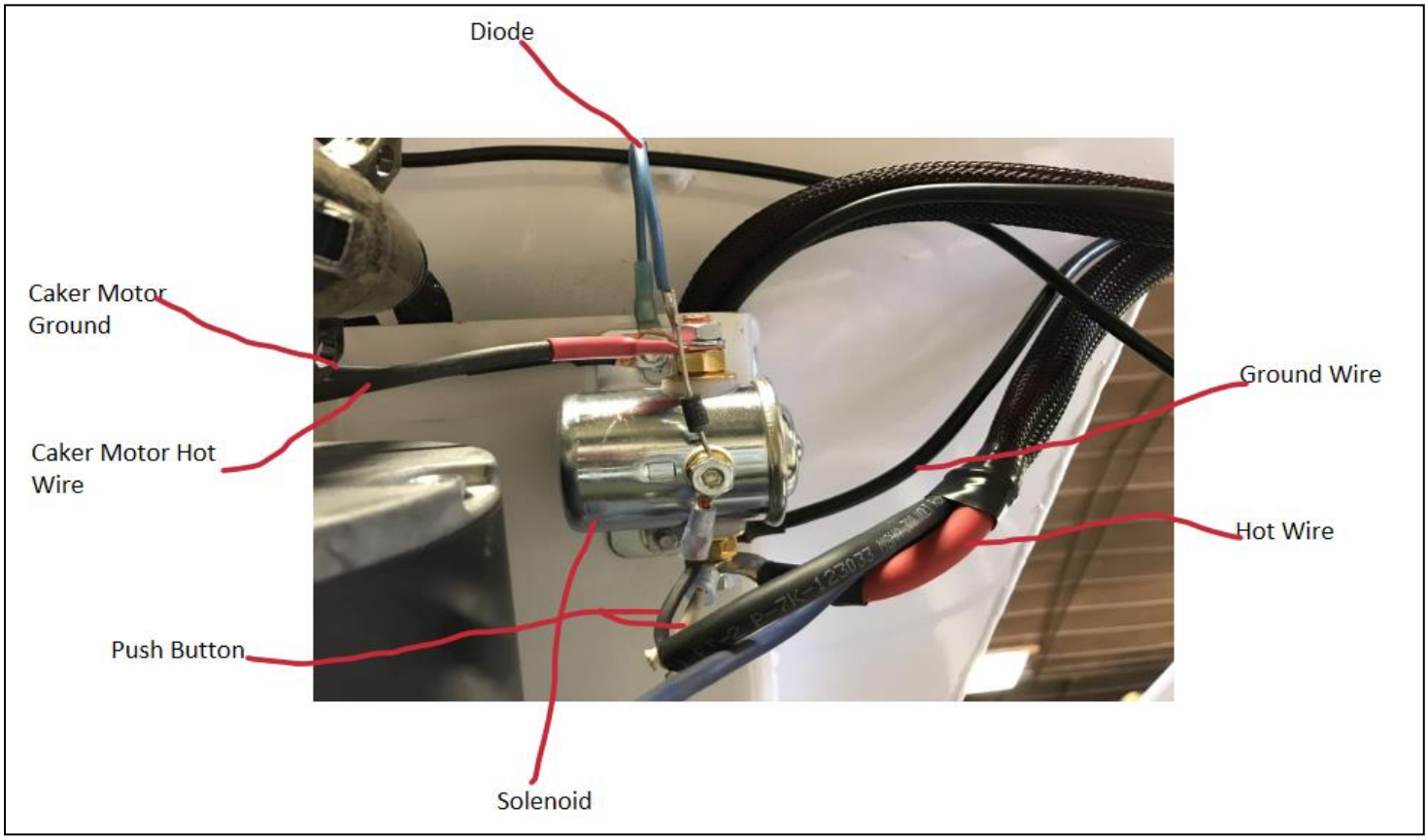
If the motor runs the motor is fine, it could be the solenoid or the push button.

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.

Motor runs	Bad push button, or damage push button cord
Solenoid Clicks	Bad Ground
Nothing happens	Bad solenoid, Or no Ground

Trouble Shooting



Cake Feeder won't start solenoid only Clicks.

You most likely have an incomplete or bad ground.

Test this by taking a set of jumper cables, find a clean, rust and paint- free spot on the Caker connect both clamps from one end of the cables here, and then connect the opposite end of the cables to your pickup frame. If your caker begins working normally, you have a bad ground.

Check to ensure that your plugs are bolted securely where you have chosen to mount them.

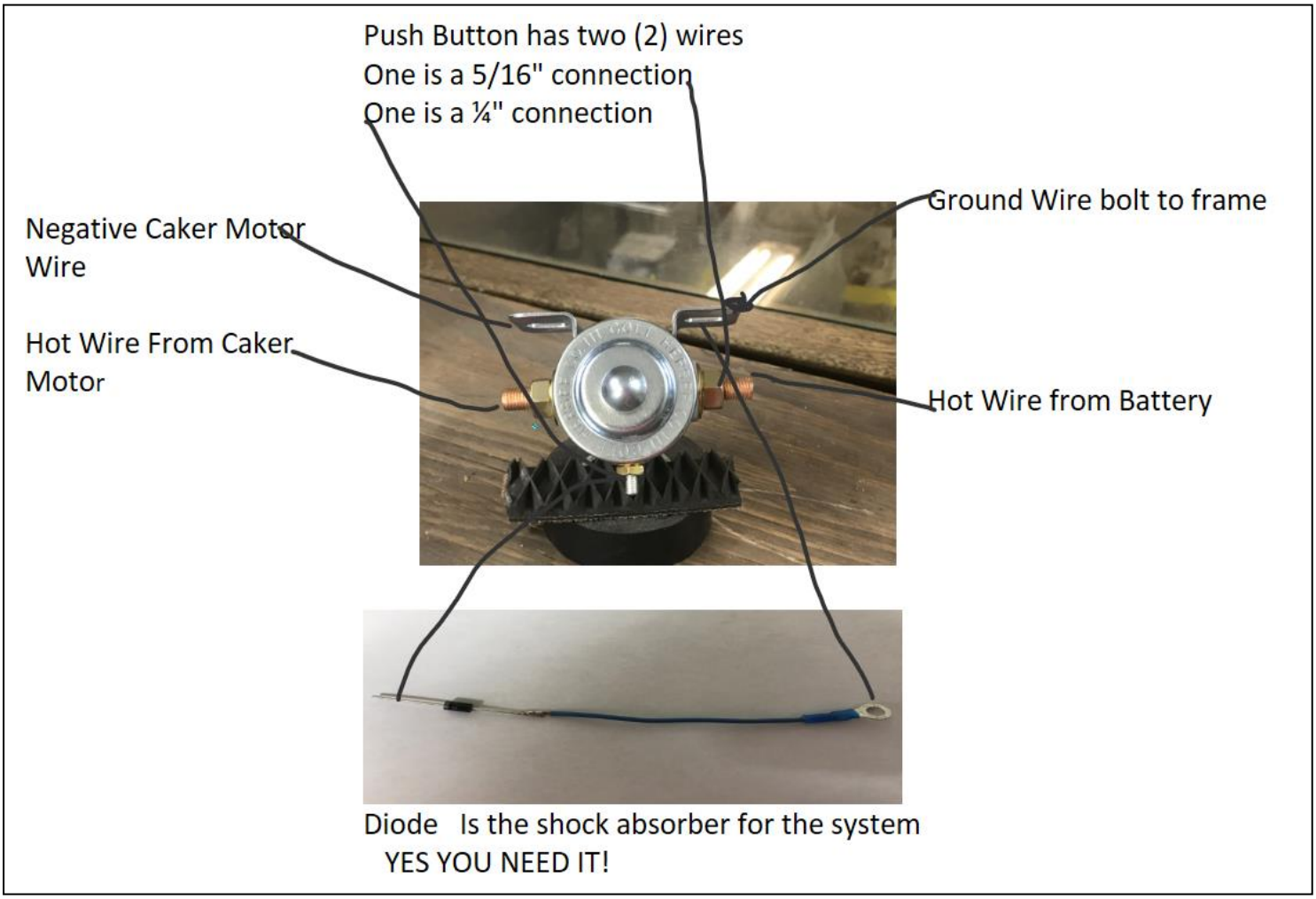
If the plugs are not secure, an incomplete ground can occur.

Check for any ice or mud, or rust build-up that could be impeding the ground.

My Push Button gets hot when I use it:

All the power for your system is going through your push button!

The Solenoid is Wired Wrong.



Connect the Solenoid to the caker 2 ¼” bolts.

1. To the top 5/16” bolt on the solenoid connect the caker motor hot wire (**RED HEATSHRINK ON EYELET**).
2. 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.**
3. To the small ¼” connection on the Solenoid connect the **wire end of the Diode** and the **small eyelet from the push button.**
4. To the top Solenoid frame bolt connect the **Diode Eyelet** and the Caker Motor GroundWire **(Black Heat Shrink).**

My Breaker keeps tripping!

This could mean you have a bare wire somewhere, in your pickup wiring or your caker wiring.

We use a 100AMP breaker for these feeders. We can send you the breaker itself, or the breaker including its 24” of wiring, eyelets included.

This Breaker we feel works the best

Frequent Q/A:

These feeders are not painted inside.

Feeders run off a 3/4 HP 12-volt motor. We have them in stock, brushes, springs, etc.

Ohio Motor will pull 67 Amps from your pickup system.

Older models can run off the smaller winch motors. They are no longer available you will need to convert your caker to the Ohio motor and gearbox.

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

For any questions you may have, give us a call. Keep up with our website and Facebook pagefor details, deals, and other products we stock.

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

www.welkermanufacturing.com

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

We work HARD for you!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