

Welder Manufacturing

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ATV

Manual for your Welder Cake Feeder



Owner: _____

Cake Feeder Serial Number: _____

MOUNTING CAKE FEEDER

:



- You will need 4-3/8" X 3" Eyelet and 4- 5/16" Hook to Hook Turnbuckles and 8 Nuts.
- Locate your tie down hook points in your ATV box.
- Position 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 eye bolt.
- Drill a hole in the leg of the caker.
- Place one nut on the eyelet, place eyelet through the hole in the caker leg, (eyelet loop on the outside,) and place a nut on the eyelet to tighten (You will have a sandwich effect on the leg), hook your tun buckles in, and tighten everything into place.

CAUTION ATV Feeder SHOULD NOT be operated on unlevel terrain!!

Digital Counter



Our Digital counters are a small Plastic box that we've built brackets around that will be mounted in the cab of your pickup, typically on the dash. They plug in to your vehicle's power point and have a digital read out display with a simple and clean design. This counter will only count revolutions, so you will need to calibrate it to your feed output

Digital Counter is the only Counter system we use with the ATV Feeder!

CALIBRATING THE COUNTER

1. Press the button to run the caker until feed begins to run down the spout.
2. Press the "reset" button on the counter. (Counter should read zero.)
3. Determine the empty weight of a 5 gallon bucket, or similar container.
4. Place the bucket / container so the cake feeder will dispense feed into it.
5. Press the button which runs the feeder, and hold it until your bucket / container is full.
6. Weigh the bucket / container, then subtract the empty weight of the container to determine the weight of the feed dispensed.
7. Divide the weight (pounds) of the feed dispensed by the number displayed on the counter. The result will be the pounds of feed dispensed for every revolution of the counting mechanism.

For example: You have 300 head of cows you wish to feed 2.5 pounds per head. (A total of 750 pounds of feed.) You have a 5-gallon bucket that weighs 3 pounds empty. After filling the bucket, you weigh it and determine the weight of the bucket to be 38 pounds. You subtract the empty weight of the bucket (3 pounds) and determine there are 35 pounds of feed in the bucket. The number displayed on the counter (the number of revolutions it took to fill the bucket) is 7. You divide 35 by 7 and determine the calibration number to be 5. (The feeder is dispensing 5 pounds of feed per revolution.) Therefore, to feed 750 pounds of feed, you will have to reset your counter to zero, and run the caker until the number displayed on the counter is 150.

Digital Counter ATV Side Wiring



Digital Counter ATV Side Wiring Installation

You will only be wiring the ATV (female) side of your ATV. When you are finished you will only need to unplug one plug to remove your cake feeder from your ATV.

Mount female receiving end of plug to the bed of your ATV in the vicinity of the male plug on the feeder. You will want enough space in the box for easy connection and disconnection.

- a. Run the red-hot wire to battery compartment of your ATV.
- b. Attach the eyelet that is on the in-line-fuse holder to the (**Positive** terminal of your battery).
- c. Attach the ground wire to (**Negative** Terminal of your battery).
- d. Run your push button cord and the counter cord from the cab of the ATV to the silver plug.
- e. Connect the wires to the silver female 7 prong plug as shown in the wiring diagram provided.

Digital Counter**7 Prong Plug**

Digital Sensor	
Brown	RED 4
Black	YEL 3
Blue	BLK 2
Hot Wire	BLU 7
Push Button	
Black	BRN 6
White	GRN 5
Ground Wire	Biggest insert under groove of Plug

To Mount your feeder **Without** a Counter you, you will follow the above instructions to connect your feeder to the battery, however you will be wiring into a 4-prong plug.

No Counter**4 Prong Plug**

Ground Wire (Black)	B
Hot Wire (Red)	G
Push Button	
Black	R
White	W

Belts



ATV belt is 6" wide X 78" Long

Belt Tracking off center

Your belt has been aligned correctly at installation.

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

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

Should your belt start to get off center:

Determine which side your belt is moving toward

The Belt will shift away from tight side, so you may need to switch bearing cages back and forth to feed belt into tube square again.

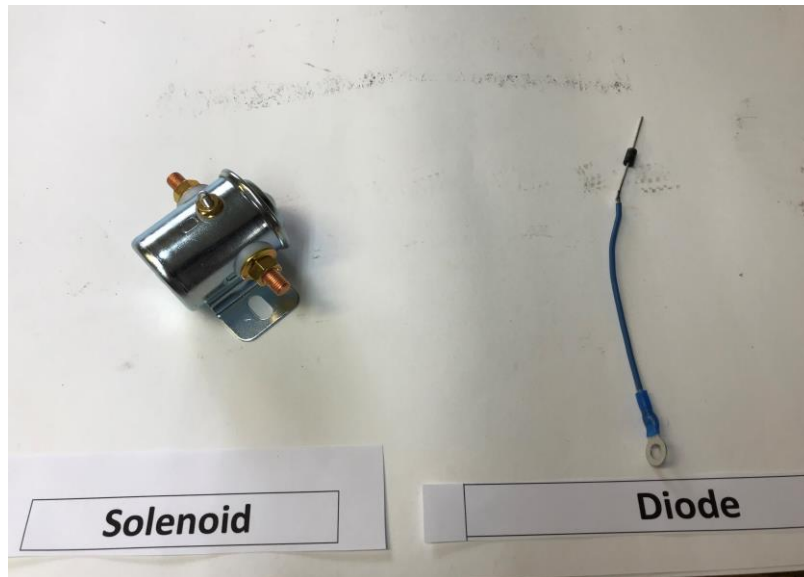
Take a 1 1/8" wrench to the 3/4" ready bolts on the bearing cages, loosen the nut on the bearing cage, on the side the belt is moving toward, and tighten, the nut on the bearing cage, on the side the belt is moving away from. This will cause the belt to travel back into place and you will be able to shift the belt square again.

ATV Motor Gear Box Combo



This unit runs on a 1/8 HP 12 Volt motor/gear box combo, connected to the ATV with the hot wire and an inline fuse holder, with a 20-amp fuse (provided)

Trouble Shooting



I am Installing my 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 from the solenoid and touch it to the post where the motor hot wire is. If the motor runs the motor is fine and 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 littlest post in the front of the solenoid, to the post where the hot wire from the battery connects.

If motor runs Bad push button,

If Solenoid Clicks Bad Ground

If nothing happens Bad solenoid.

Frequent Q/A:

These feeders are not painted inside, unless a custom order is placed asking for no lid.

We keep a handful of sirens on hand in the office. Heed 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 page for details, deals, and other products we stock.

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