

BestbaleTM

Installation Instructions

430 Lite Series

New Holland



Scan for online instruction manual



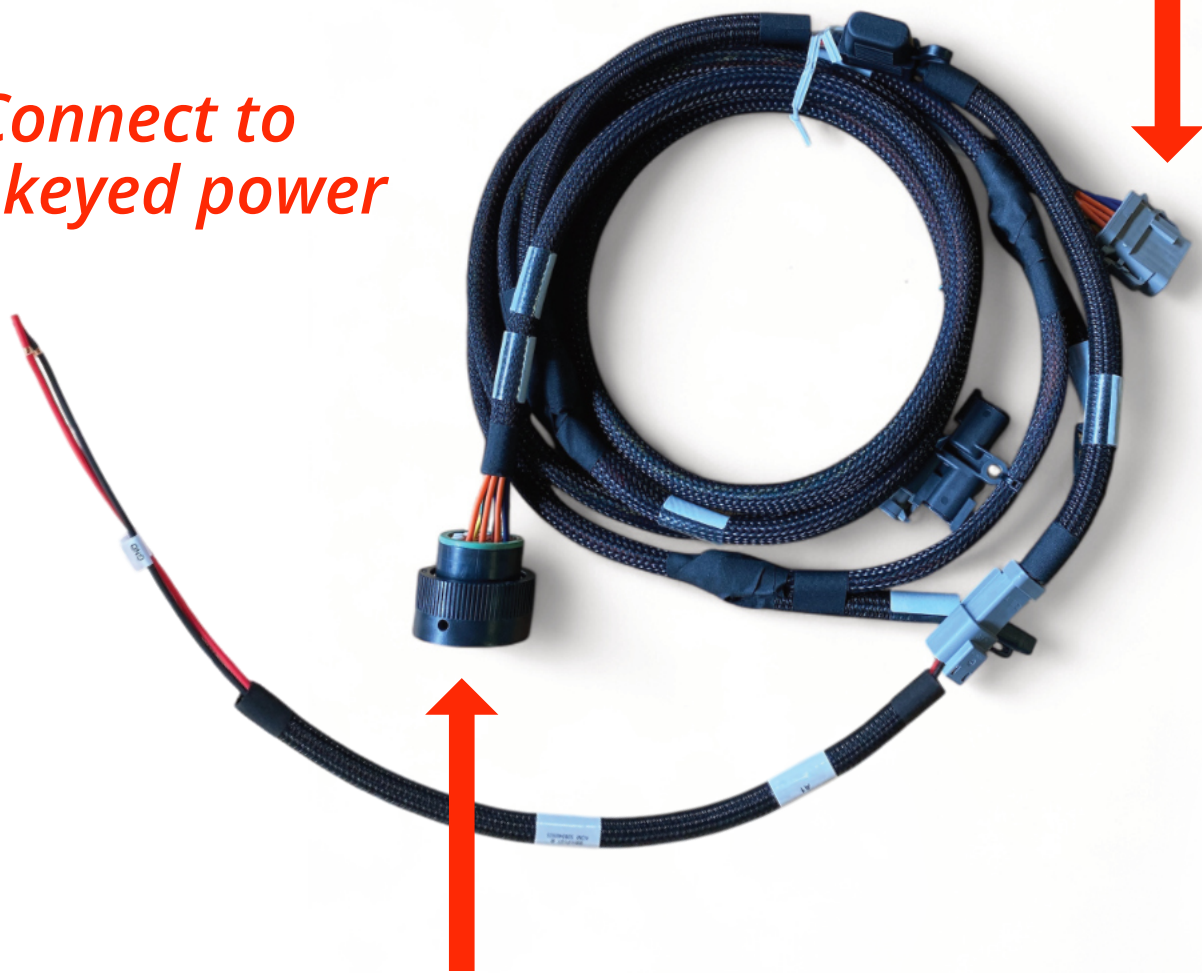
Mount the monitor in the tractor



Connect cab harness to 12v power

*Connect to
12v keyed power*

To monitor



To baler

Install stroke counter sensor



Video of stroke counter installation on Massey 1840, same guidelines apply

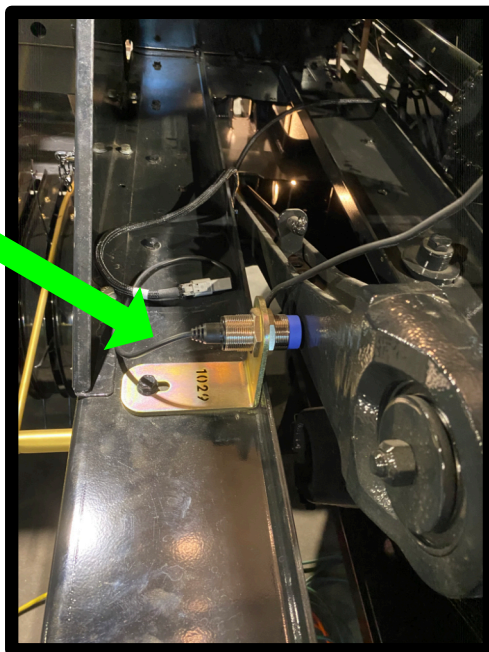
Open plunger arm cover



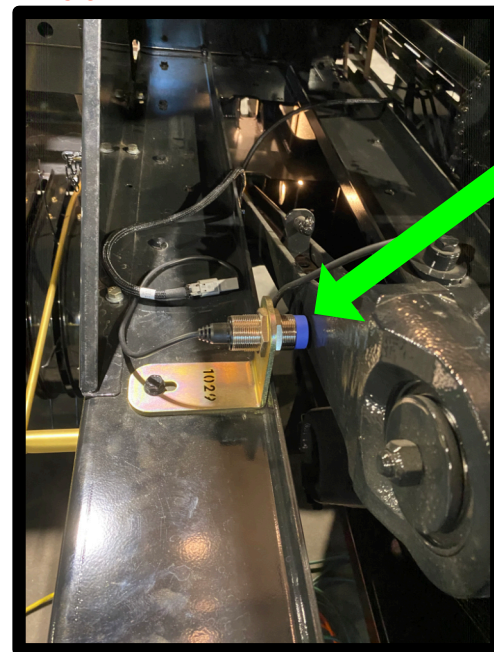
Locate mounting bolt



Install 1029 bracket



Rotate flywheel so arm is near sensor



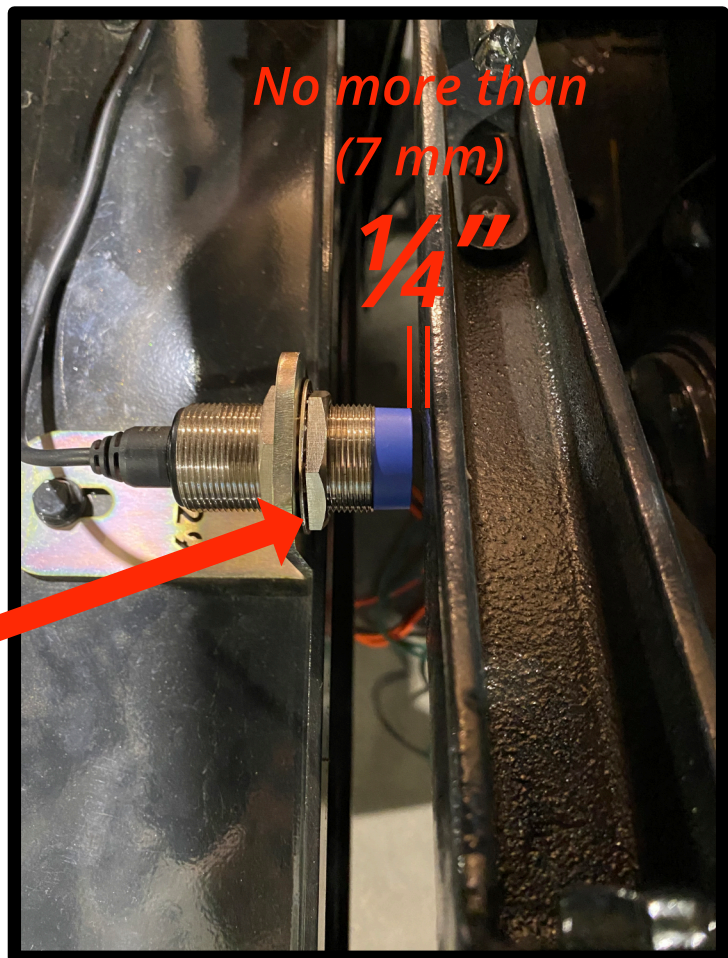
Install stroke counter sensor

IMPORTANT: Gap must be no more than 1/4"

- 1) Install bracket onto baler using factory bolt.
- 2) Hand tighten the 3/8" bolt that holds the bracket to the frame.
- 3) Turn flywheel by hand so plunger arm is at the closest possible point to the sensor.
- 4) Adjust the bracket so there is **NO MORE THAN 1/4" GAP AT THE CLOSEST POINT.**
- 5) Tighten the M30 x 1.5 jam nuts really tight onto the bracket.
- 6) Loctite may be used.
- 7) Check periodically.
- 8) Plug into X11 on wire harness.

Tighten M30 x 1.5 nuts really tight and check periodically after operation.

Blue Loctite may be used.



Install bale tie sensor



Video of bale tie sensor installation tips on a Massey 1840, same guidelines apply.

IMPORTANT: Gap must be no more than ¼"

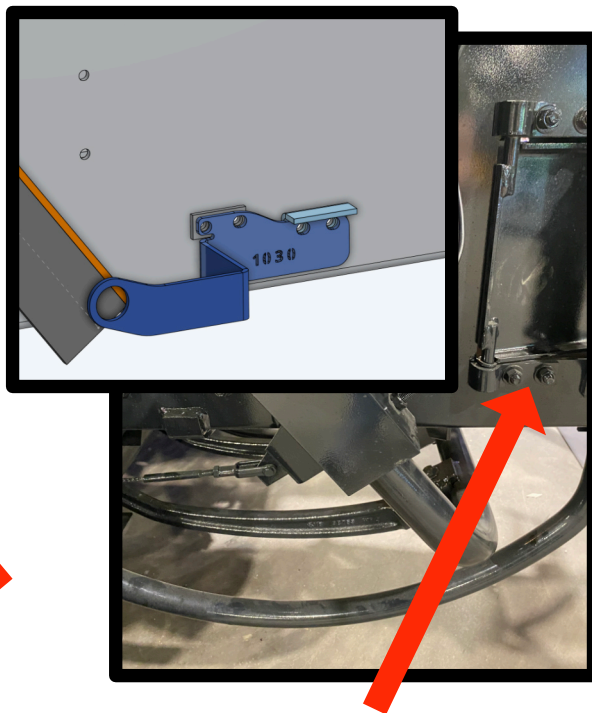
- 1) Check M30 x 1.5 jam nuts periodically to ensure they remain tight.
- 2) Damage caused by unsecured jam nuts are not covered under BestBale warranty.
- 3) Loctite may be used to help secure the jam nuts.
- 4) Plug into X14.

Set gap to **NO MORE THAN ¼"**

¼"
(7 mm)



New style bracket mounts here

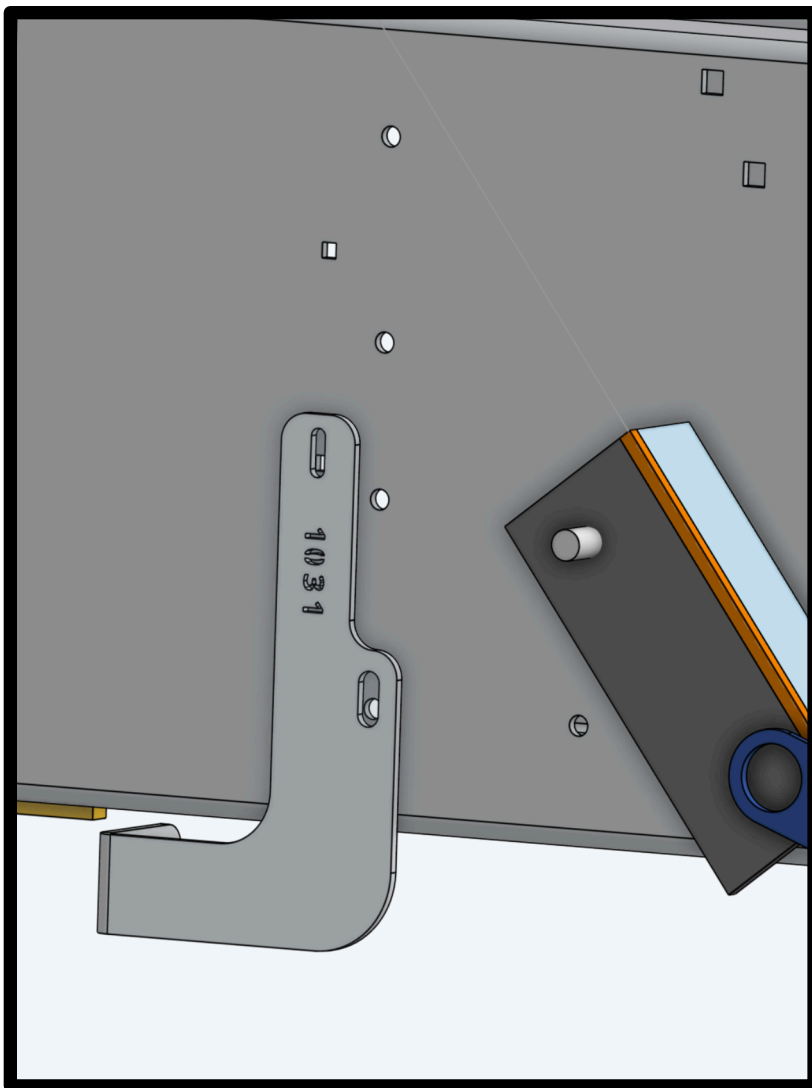


NOTE: The sensor should be sensing and the LED should be illuminated in the home position, as shown.

Install flake sensor

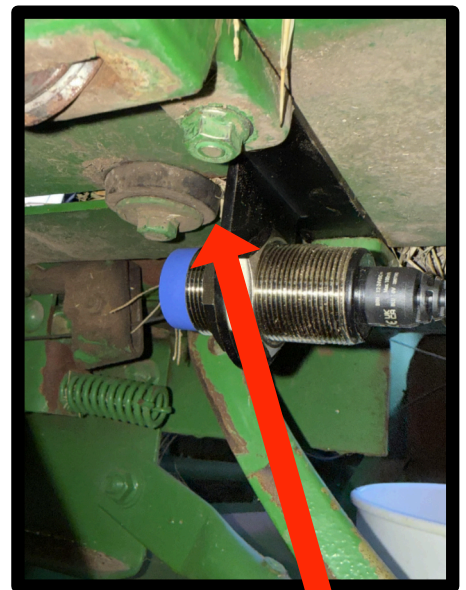
IMPORTANT: Gap must be no more than ¼" when the hay dog is extended.

- 1) Extend the hay dog so it is at the closest point to the sensor.
- 2) Adjust the sensor using the jam nuts so that the sensor is **NO MORE THAN ¼" (7mm)** away from the closest metal contact point of the haydog.
- 3) Plug into X22, routing the cables away from moving parts.



Use 1031 bracket to mount flake sensor.

John Deere 348 shown



When the hay dog is extended, the closest point of the hay dog should be no more than ¼" from the end of the sensor.

Note: Sensor should trigger any time a flake is fed into the chamber (hay dog extends) and then not be triggered when the hay dog is in the home position. LED light will indicate if it triggers properly during installation.

Run baler wire harness

TIP: LOOSELY secure BestBale harness to factory baler harness with zip ties until all connections are made, then tighten it to the baler harness after all the sensors are properly installed. This gives room to adjust the harness until all connectors are fitted.

NOTE: The Lite Series harness is a universal harness, made to fit several makes and models. There will be some extra wire on your baler. Simply tie up and secure any extra wiring and make sure it is out of the way of moving parts.

A1/A2 Power in (12v 7.5 amp req)

C5 Monitor

C6 Tractor to baler

X6 Baler to tractor

X11 Stroke sensor

X14 Bale tie

X16 Gazeeka/aux

X17 Scale amplifier

X22 Flake counter

X100 Scale/Moisture (if installed)

SC100 to baler harness X100

SC101 Scale Amp

SC102 Gazeeka/Aux



Recommended wire harness path

Run baler wire harness

TIP: LOOSELY secure BestBale harness to factory baler harness with zip ties until all connections are made, then tighten it to the baler harness after all the sensors are properly installed. This gives room to adjust the harness until all connectors are fitted.

A1/A2 Power in (12v 7.5 amp req)

C5 Monitor

C6 Tractor to baler

X6 Baler to tractor

X7 Gray controller

X8 Gray controller

X9 Power bus

X10 Ground bus

X11 Stroke sensor

X12 Valve coil

X13 Pressure transducer

X14 Bale tie

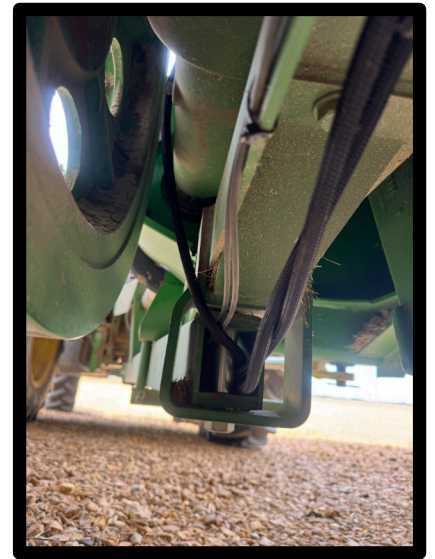
X16 Gazeeka/aux

X17 Scale amplifier

X21 LED lights

(if applicable, knotter hood)

X22 Flake counter



Recommended wire harness path

Install scale amplifier



Video for performing a hard zero of the scale amplifier

**Install box to bracket,
then bracket to baler.**



**Connect M12 wires from scale
(no order)**



Connect X17 wire harness



Perform hard zero if necessary

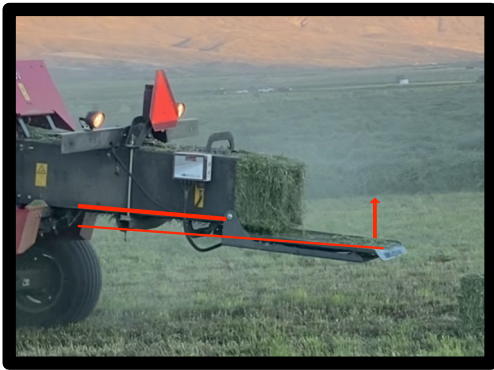


Install scale

IMPORTANT: Scale must weigh, drop bale, and have no weight before the next bale touches the scale.

- 1) Set the coilover spring tensioner at the bottom of the shock absorber to the middle setting
- 2) Adjust the scale platform forward/backward to desired bale length setting
- 3) Adjust upper shock mount up or down to set platform parallel with the baler chamber or slightly raised from the parallel position.

Parallel or slightly raised when empty



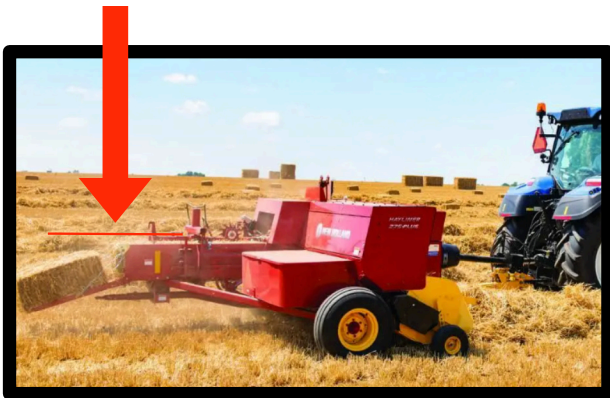
Slightly angled when loaded



Rebounds up and has no weight before next bale touches



Make sure baler is level to the ground when installed on tractor hitch.



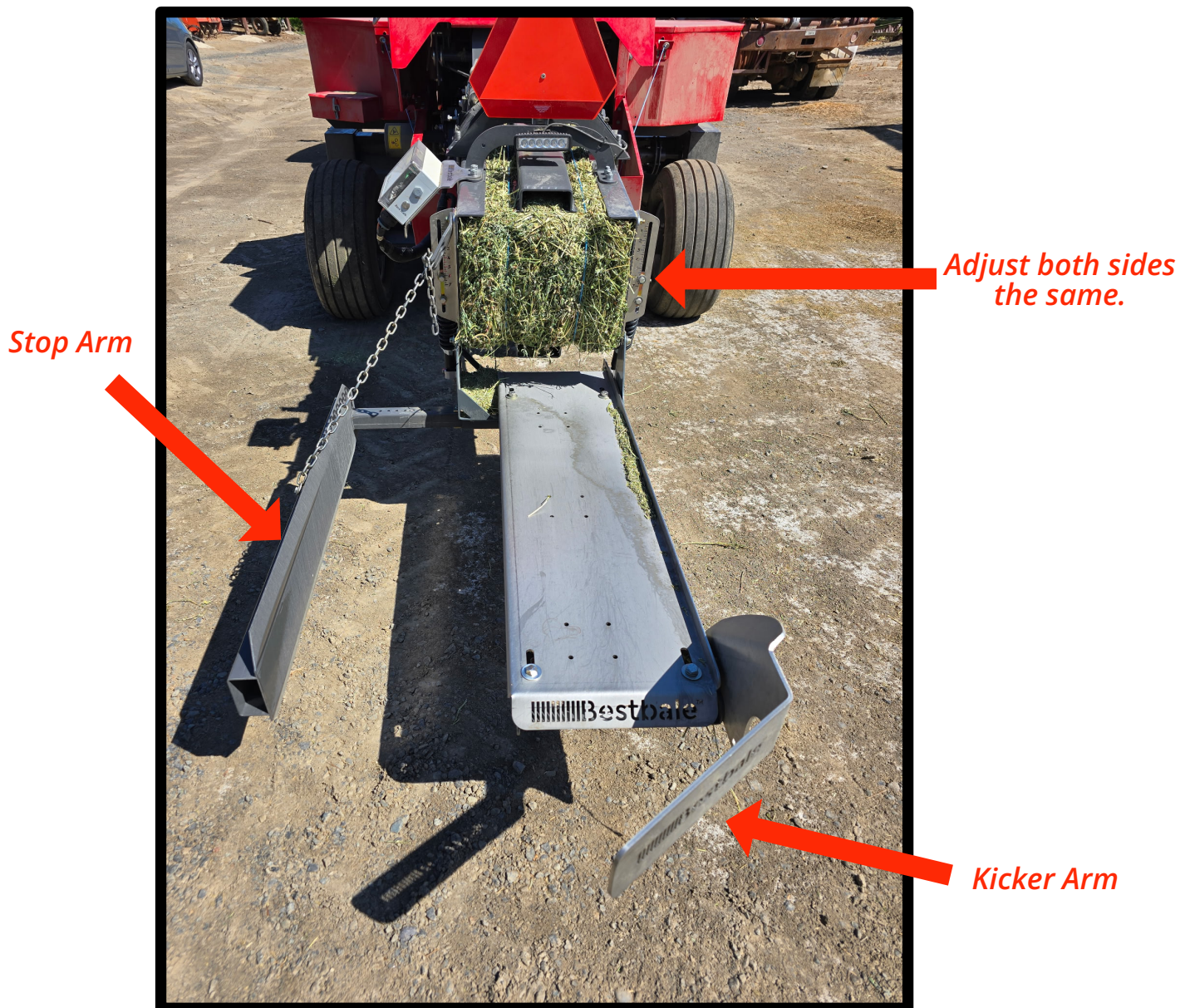
This is set for a ~36" bale

TIP: Set the platform farther forward for shorter, stickier bales, (alfalfa, steamer, etc) and farther backward for longer, more slippery bales (grass, straw, etc). Platform has adjustment for roughly 30-38" bales. You want the bale to fall off of the scale before the next bale touches the scale.

¼ Turn Scale Install

IMPORTANT: Scale must weigh, drop bale, and have no weight before the next bale touches the scale.

- 1) Set the coilover spring tensioner at the tightest setting on both sides.*
- 2) Adjust the scale platform all the way forward*
- 3) Adjust upper shock mounts up or down to set platform parallel with the baler chamber or slightly raised from the parallel position.*
- 4) Use chain to anchor Stop Arm*
- 5) Adjust Kicker Arm to kick bale off the platform before the next bale touches the scale.*



Install Gazeeka

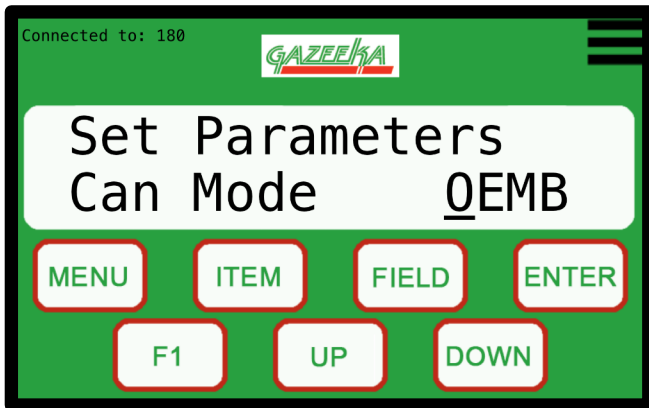


Video for Gazeeka software update

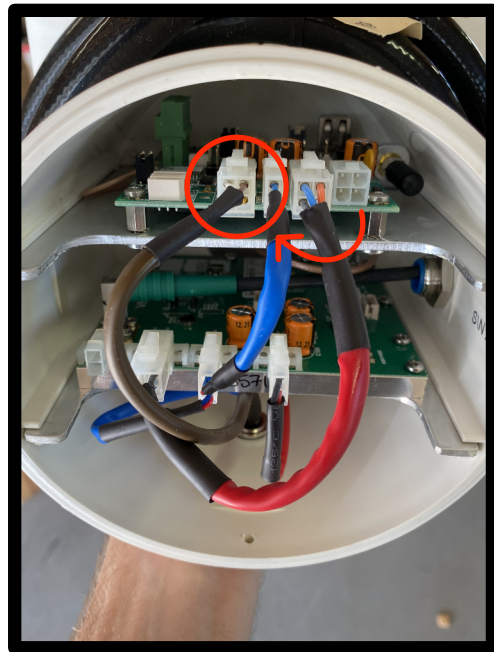


Video showing Gazeeka installed on scale

Must have Gazeeka 25.03 software or later, CANMODE set to "OEMB"



Make sure plug is inserted into left connector



Plug adapter harness into Gazeeka and X16 plug.

Install Gazeeka brackets to scale. Air calibrate after installation.

Ensure scale is still parallel with the chamber or slightly raised



Troubleshooting

Baler strokes per minute (yellow number) reads 0 when the PTO is on.

- 1) Check that stroke counter is plugged into X11.
- 2) Check that the stroke counter sensor is within .250" of the feeder fork arm and that the red LED light is illuminated when triggered.
- 3) If no light, make sure there is power (12v) going to the baler and to the X11 connector. Use frame ground to check power to X11, pin 1 (red wire).

Scale reads more than 2.0 lbs or less than -2.0 when empty.

- 1) Perform hard zero calibration found in the video on "Install Scale Amplifier" page.

Flake counter sensor not working.

- 1) Make sure "Flake Sensor" is enabled under the "Options" page in the Settings menu
- 2) Check clearances on flake sensor found on "Install Flake Sensor" page in this manual.
- 3) NOTE: Flake counter will only register once per stroke sensor trigger.

Field count is increasing more than once per tie cycle, and flake count shows many zeros.

- 1) Most likely the sensor is triggering more than once per tie cycle. This can happen if the sensor is not close enough, or there is excessive play in the needle carriage assembly.

430 Lite Series *Quick Start Guide*

Basic Screen



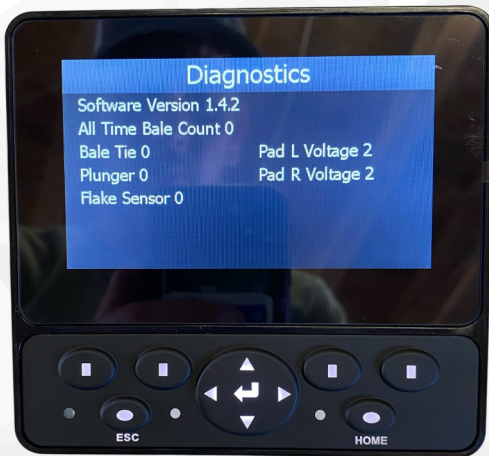
Options Enabled



Enable Options



*Use Home button to get to Options screen.
Use Up/Down and Left/Right arrows to enable purchased options.*



On Diagnostics page, the Bale Tie, Plunger, and Flake Sensor are all "0" when not triggered, and "1" when triggered.

Still have questions? Contact us at www.bestbaleusa.com or check out our Facebook group BestBale Owners Group for more helpful tips.

*Jared Herbst 208-993-1959 call, text, and Facetime available
Darren Herbst 208-557-1607 call and text available*