# Baler Automation Quick Reference Guide

## Automation Setup

1  Enter Automaton Setup page.
2  Enter Automation Key into text box (B) or use 200 bale count demo.
3  Select desired Automation Level from drop-down box (C), if tying mode is B–Wrap SCV/Vehicle Speed will not be displayed or selectable:

Automation Off: Tractor does not receive commands from the baler.

Automation On – SCV Only: Tractor receives commands from the baler to actuate the SCV for the gate to unload the bale after a wrapping cycle.

Automation On – SCV/Vehicle Speed: Tractor receives commands from the baler to actuate the SCV for the gate to unload the bale after a wrapping cycle. Tractor also receives commands from baler to reduce speed and stop (IVT required) the tractor when the preset bale diameter is reached and to accelerate the tractor after bale is ejected.

4  Select SCV number connected for rear gate control using drop-down box (D).
5  If using Level 2 Automation (SCV/Vehicle Speed), use drop-down boxes to select between minimum (1), normal (2), and maximum (3) tractor acceleration (J) and deceleration (K) rates.
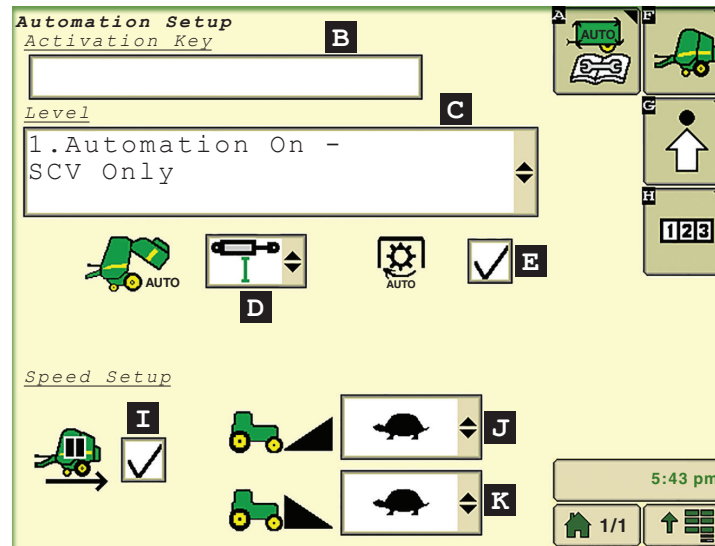


## Automation Pause Mode

If operating in hilly or difficult conditions Automation Pause mode can be used by selecting checkbox (I). This allows the operator to select when the baler commands the gate open in order to place bale in the desired location by using the "Resume" button on the tractor display.

Pause mode is also required for B–Wrap automation to ensure that the operator has backed up to desired location to eject the bale prior to the gate being commanded open.

### Automation Setup Steps

1. **Baler**

2. **Settings**

3. **Automation Settings**



## Auto-PTO Off Function

The Auto-PTO Off function enables the baler to command the tractor to turn off the PTO. Checkbox (E) enables this function and must be selected in B–Wrap mode and can also be used to automatically stop the PTO if the baler is plugged in automation mode.

## Automation Diagnostics

Further diagnostics for Automation can be done by selecting the Automation Diagnostics softkey (A) on the Automation Setup page.
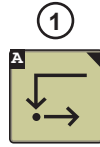
A  Message (4) indicates why Automation was last exited or could not be entered.

B  The conditions (5) required to be met for each Automation Pie state (6) are shown on pages 1 and 2.

C  The condition is met if "OK" (7) is shown, the condition is not met if "----" (8) is shown.

## Automation Setup

A  Automation Diagnostics
B  Activation Key
C  Automation Level
D  SCV Selection for Gate Control
E  Auto PTO Off Checkbox
F  Baler Home Screen
G  Baler Settings
H  Counter Settings
I  Pause Mode Checkbox
J  Tractor Acceleration Rate
K  Tractor Deceleration Rate

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## Place "Resume" Button on Tractor Display
Use tractor display to access display settings to place "Resume" function softkey (1) on the tractor display home page. See tractor or display operator's manual to configure your tractor display.

## Turning Automation On
**A** When Automation Pie is 2/4 illuminated, select and activate Automation Enable (2) on the baler home page. Automation Pie will switch to 3/4 illuminated.

**B** With 3/4 Automation Pie illuminated, engage PTO, set throttle, and begin forward travel. Select and activate "Resume" softkey (1) on tractor display. Automation Pie will switch to 4/4 illuminated indicating automation is "active".

## Automation Level 1 with Net/Twine
1 Once in Automation Level 1 mode, continue baling until preset bale diameter has been reached. Bring tractor to a stop.

2 Baler will automatically wrap the bale (if in pause mode operator must press "Resume" softkey to open gate) and then command the tractor to open the gate. The push bar moves the bale from under the gate, then the baler commands the tractor to close the gate.

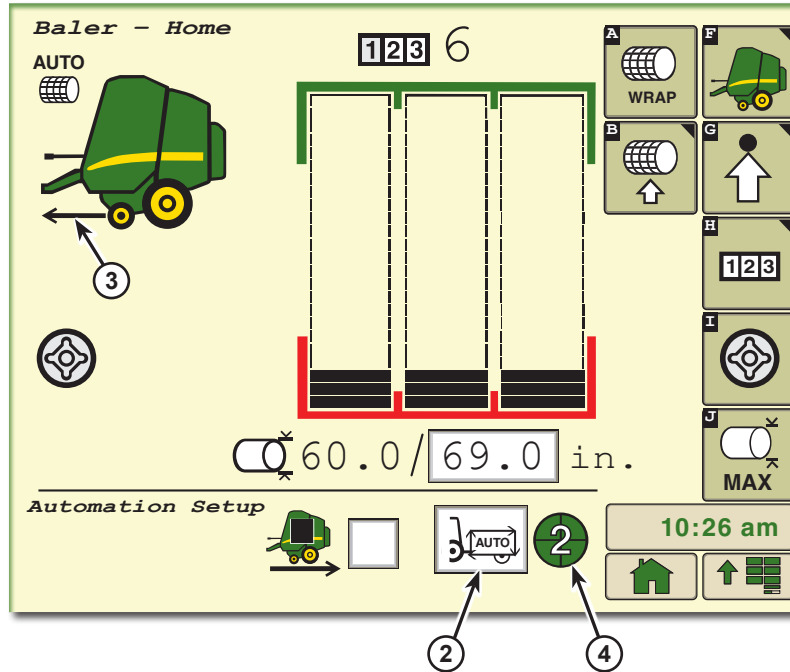3 The "Ready-to-Bale" arrow (3) illuminates on the baler display, operator then can resume baling.

## Automation Level 2 with Net/Twine
1 Once in Automation Level 2 mode, continue baling until preset bale diameter has been reached. The baler will command the tractor to decelerate and stop.
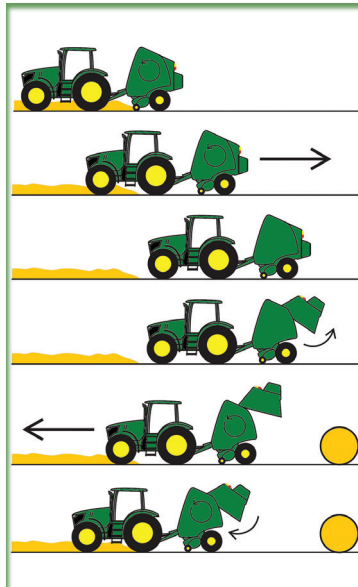
2 Operator then shifts reverser lever from "forward" to "PowerZero" or applies both brakes simultaneously to stop and holds them.

3 Baler will automatically wrap the bale (if in pause mode operator must press "Resume" softkey to open gate) and then command the tractor to open the gate. The push bar moves the bale from under the gate, then the baler commands the tractor to close the gate.

4 The "Ready-to-Bale" arrow (3) illuminates on the baler display, operator can then shift reverser lever to "forward" or release brakes. The baler will then command the tractor to accelerate and baling resumes.



*Baler – Home*

60.0 / 69.0 in.

*Automation Setup*

10:26 am

## B–Wrap Automation Cycle


## Exiting Automation
Any of the following actions will turn off automation and return full control to the operator while not in pause mode:

**A** Select the Automation button (2).

**B** Depress clutch, stop, and put transmission into park.

**C** Disengage PTO.

**D** Depress gate SCV lever.

**E** Move tractor ground speed lever forward during automated deceleration.

## Automation State Pie
The Automation State Pie (4) indicates the current baler automation state. The Automation Diagnostics page provides requirements for each state.



| Tractor Auto Ready | Baler Configured | Enabled | Active (Baling) | Pause Mode |

## Automation with B–Wrap
1 Once in Automation Level 1 mode, continue baling until preset bale diameter has been reached. Bring tractor to a stop.

2 Baler will automatically wrap the bale. The baler will then command the tractor to turn the PTO off when the proper orientation has been reached.

3 The operator should back the baler up (can be done while the baler is wrapping), a reference beep will be given after backing up 4 meters.

4 Once the PTO is off the operator must press the "Resume" softkey, the baler will then command the tractor to open the gate.

5 The operator should then begin moving forward, once forward motion is detected the baler will command the tractor to turn the PTO back on.

6 Once the tractor has moved forward 2 meters the baler will then command the tractor to close the gate and baling can resume.

*Operating in Automation or even Automation Pause mode may not be appropriate for field conditions where potential for rolling bales exists.*

**⚠ CAUTION**