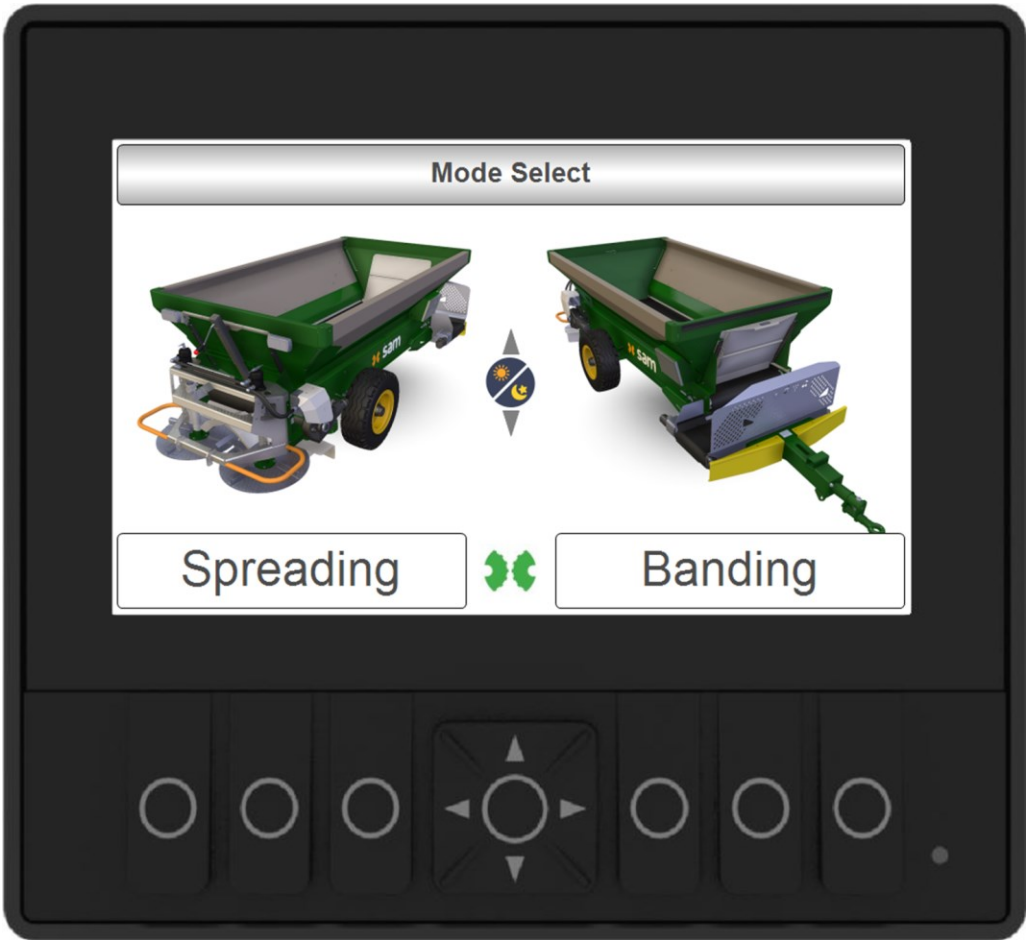


Operator manual

Spreading and banding



ENGLISH / RECREATED EDITION

Based on the 2025 manual. SAM technical review is pending. Resolve the items on page 26 before operational release.

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Using this manual

“Floor belt” means the floor mat or main belt in the source. Screen labels, product names and units remain as shown on the controller. Screen values are examples, not recommended settings.

Quick start

- 01** Connect the spreader hydraulics and power cable.
- 02** Check that the door is closed and select the product.
- 03** Fill the spreader and travel to the work area.
- 04** Activate the hydraulics and increase tractor engine speed to 1,000 rpm.
- 05** Turn on the floor switch to begin spreading or banding. The LEDs flash green.
- 06** Open the door to the required height.
- 07** Work around the area, creating headlands where applicable.
- 08** Use the toggle switch to turn the floor belt on and off at headlands.
- 09** Finish the work area, close the door and switch off the hydraulics.

Check the banding procedure before use

This reproduces the original quick-start sequence. The banding section gives a different door position before loading. SAM must resolve this difference. See pages 23 and 26.

Mounting and power

Attach the screen mount

Choose a suitable position inside the cab, usually on the right-hand side beside the GPS system, if fitted. Use the SAM mounting system or a suitable custom mounting solution. Route the screen cable neatly, preferably behind the panels.



Connect to 12 V power

SAM supplies a three-pin Euro plug. The tractor key switches the screen power on and off. The source manual recommends that the dealer connects the plug to the tractor's accessory wiring and conceals it inside the console to prevent damage. Confirm plug compatibility with your tractor.



Switch and spreader connection

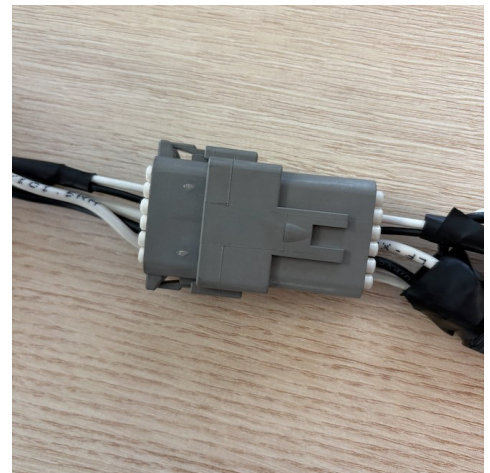
Mount the switch

The supplied rocker switch has a second set of electrical poles. These can also control a third-party GPS system while the switch controls the spreader's floor belt. Ideally, the dealer should wire the switch into the control console and conceal the wiring to prevent damage.



Connect to the spreader

Connect the tractor wiring loom to the spreader wiring loom and secure the connection inside the cab. After use, return the cable to its storage position on the spreader to help protect it from corrosion.



Welcome and mode selection

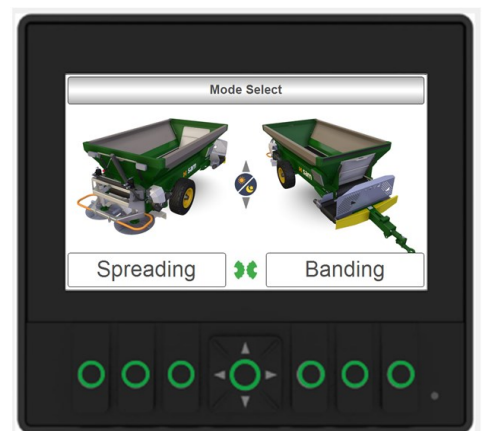
Welcome screen

Turning the tractor key on powers up the screen and displays the SAM welcome. Have the spreader connected when you power up. A green LED on the right of the screen indicates communication with the spreader. A red LED may indicate a wiring issue. Check the plugs.



Select Spreading or Banding

On the Mode Select screen, press any left-hand button for Spreading. Press any right-hand button for Banding. Spreading distributes material across the working width; Banding places it in bands.



Calibration and technician menu

Calibration screen

This screen calculates the amount spread over a distance and lets you adjust the flow factor as the job progresses. The source describes a “two-click” calibration process, with settings saved for the next job. The source does not provide the full calibration procedure.



Menu: SAM technicians only

This menu contains factory settings, including rear-door setup and ISOBUS settings. Contact SAM HQ if access is needed to resolve a fault. Changing settings in this area could void your warranty.



Spreading mode

Main screen

After selecting Spreading, the main screen shows forward speed, hectares spread, weight in the bin, rear-door height, selected product, floor-belt status, hectare status, spinner speeds and spread width.



When spreading

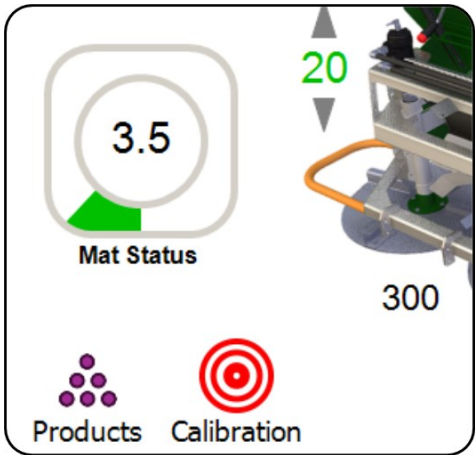
The screen-button LEDs flash green when the floor switch is on. Above 2 km/h, the machine expects to be spreading, so the hydraulics must be on. The source specifies 40+ L/min hydraulic flow. Adjust spinner speed through Setup. The floor-status indicator turns green as the application rate reaches the target.



Floor and hectare status

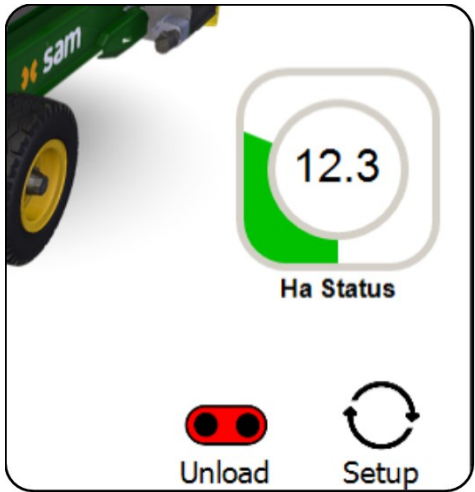
Floor-belt status (Mat Status)

The floor-belt rpm increases or decreases with travel speed to maintain the same application rate. Keep travel speed and tractor engine revs as steady as possible so the hydraulic supply is maintained.

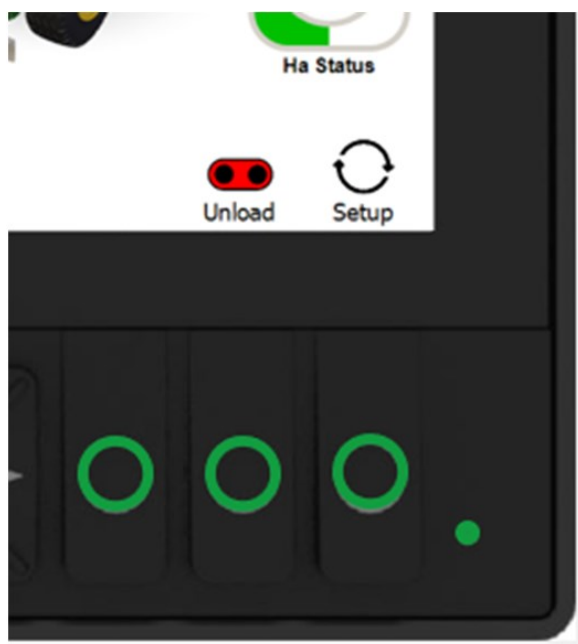


Hectare status (Ha Status)

The indicator estimates how many hectares can still be covered with the material left in the bin. It turns red when approximately one hectare of material remains.



Spinner control



Adjust spinner speed

Press the button directly below the Setup icon and set the required spinner speed. In spreading mode, the machine attempts to reach the selected speed.

The source states a range of 50 to 700 rpm. SAM must confirm this range before release. Do not infer a permitted speed from example screen values.

Unload mode



Use the Unload button

The button directly below the Unload icon switches unload mode on or off. Floor-belt rpm and all LEDs turn red, and the Unload icon pulses.

This mode fully opens the floor valve, so belt speed is governed by the tractor's hydraulic flow. It is used to unload material into a pile. Reduce hydraulic flow to the spinners when using this mode.

Technical review required: the source also refers to belt cleaning and greasing. It gives no safe isolation procedure. These maintenance uses are not approved instructions in this draft.

Select a product

Open Products

Press the button beneath the Products icon. The controller remembers the last product used. In the example, UREA appears at the top right. Selecting the UREA button takes you to the Products screen.



Choose one of 10 saved products

Use the centre navigation up/down buttons to highlight the product row. Use the left/right buttons to cycle through the 10 saved products. No separate save or load action is needed. The product left selected is active.



Product settings

Change other settings

Use the centre up/down buttons to highlight the row you want to change. Use the left/right buttons to decrease or increase the value. Changes take effect without a separate save or load action.



Set Saved Door Height

Highlight the Saved Door Height row with the centre up/down buttons. Use the left/right buttons to decrease or increase the value. The value left selected becomes active.



Door-height control

Manual adjustment

Use the up and down arrow buttons on the main screen to raise and lower the rear door manually.



Automatic positioning

On the Products screen, press Close to move the door to its lowest closed position and end stop. Press SDH to move the door automatically to Saved Door Height.



Door-height guidance

Door is too high

If the floor-belt rpm becomes too low, the floor-status indicator turns orange. The door indicator's down arrow also turns orange, suggesting that you lower the door as appropriate.



Door is too low

If the door is too low and the floor belt reaches the maximum rpm available from the hydraulic supply, the door indicator's up arrow turns orange. Raise the door as appropriate. The floor-status indicator also turns red.



ISOBUS gateway

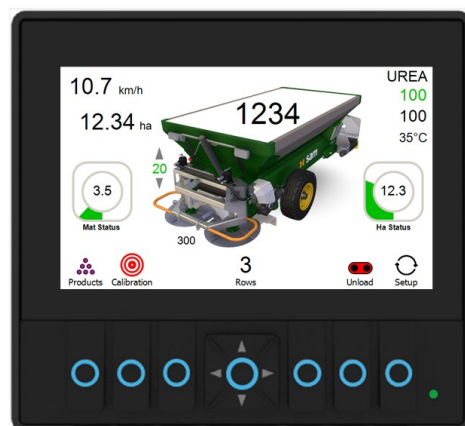
Connect the gateway

Connect the ISOBUS gateway to the screen and to the tractor's ISOBUS socket. The source recommends installation by a dealer technician, with the cables carefully routed behind the console.



Initialise the system

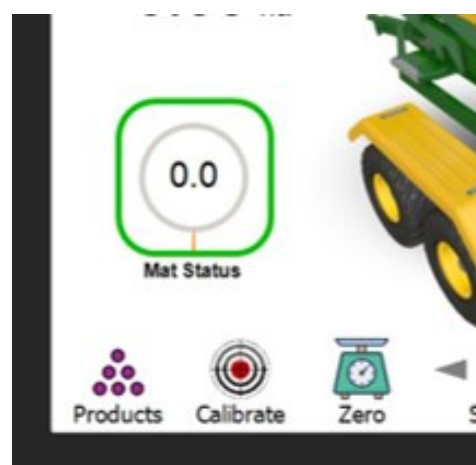
On first connection, allow a few minutes for the system to synchronise and learn. Later starts take about one minute to load. The LEDs turn blue once task, section and rate controls have synchronised.



Task and section control

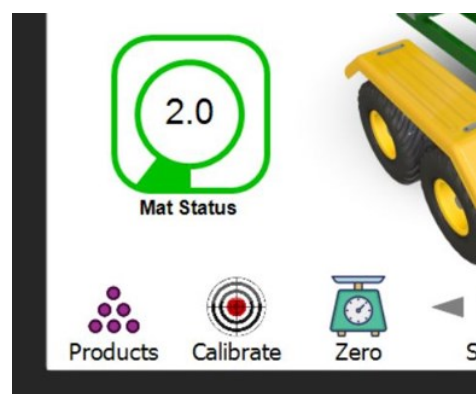
Task control

The green outer box indicates the connection to the tractor's GPS task control.



Section control

The inner circle indicates GPS section control. It is green when the tractor's GPS requests spreading. It turns grey and switches the section off when the GPS detects a headland or overlap. Disable this function on the GPS system if it is not required.



ISOBUS rate control

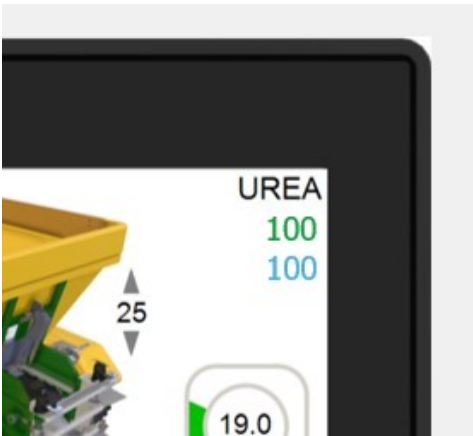
Choose the rate controller

By default, the SAM controller controls the application rate. To let the tractor control the rate, press the button directly below the ISOBUS icon on the Product Settings screen. The product rate turns blue and changes when variable-rate control is active.



Variable rates

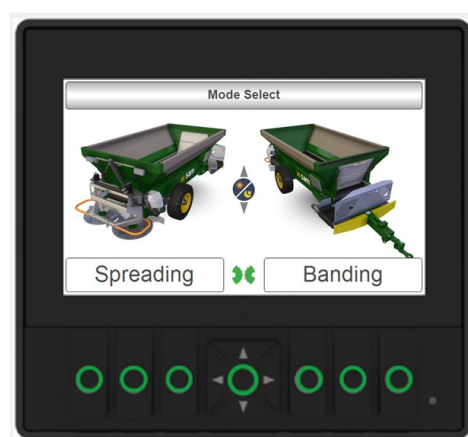
On the main screen, the target rate turns blue and changes when variable-rate control is active on the tractor's GPS system. It turns green when the machine reaches the target rate.



Spreading: prepare to load

Start the controller

Turn the tractor key on and select Spreading. Check the main display: speed, hectares spread, bin weight, door height, selected product, floor and hectare status, spinner speeds and spread width.



Close the door before filling

For spreading, close the rear door before filling the bin. Use the down arrow on the main screen, or press Close on the Products screen.



Spreading: load and select

Load the spreader

If load cells are fitted, the screen displays the weight as you fill the bin.



Confirm the product

Select the product, for example UREA. The controller loads its previously used settings. Travel to the spreading location and press SDH to move the door to Saved Door Height.



Spreading: start and monitor

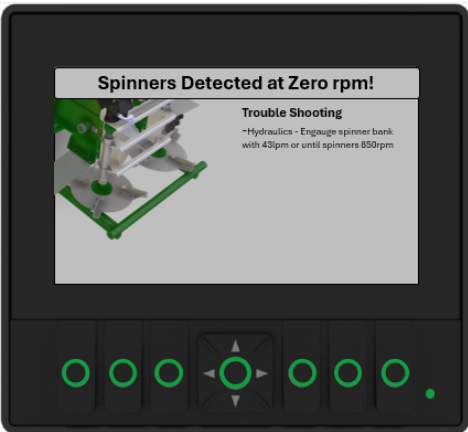
Before spreading

Engage the tractor’s hydraulic circuit. The source states that the spinners start as soon as this screen is entered. Once moving, the floor-status indicator turns green and the application rate reaches the target.



Spinner warning

If the spinner hydraulics are not switched on, the controller shows a warning. The warning disappears when the machine detects that the spinners are turning.



Spreading: headlands and finish



Control the floor at headlands

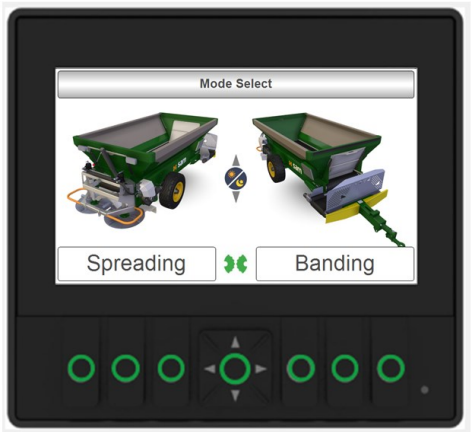
A headland is the turning area at the end of a run or row. Use the toggle switch to turn the floor belt off as you enter it, then turn the belt back on as you leave.

With an ISOBUS gateway and active section control, this is done automatically. Continue until the work area is complete. Close the door before moving to the next area or returning to the shed. The quick-start instructions also specify turning off the hydraulics when the job is complete.

Banding: prepare to load

Select Banding

Turn the tractor key on and select Banding. The main screen shows travel speed, hectares spread, bin weight, door height, selected product, floor and hectare status, spinner speeds and spread width, as described in the source.



Door position before filling

The banding section says to open the door to the standard “midway point” before filling. The override button cycles through 20 mm, 100 mm, 600 mm or a custom height.

SAM must confirm this loading procedure and define “midway”: it differs from the closed-door quick start.



Banding: load and select

Load the spreader

If load cells are fitted, the screen displays the weight as you fill the bin.



Confirm the product

Select the product, for example COMPOST. The controller loads the settings used last time for that product. Travel to the work area and press SDH to move the door to Saved Door Height.

Banding Product Settings	
Product Name	COMPOST
Spread Rate (kg/ha)	10000
Density (kg/m3)	500
Tractor Centres (m)	4.0
Flow Factor (%)	100
Pile Timer (s)	3.0

Home

Banding: operate and turn

Before banding

Engage the tractor's hydraulic circuit. If the main floor switch is on, the banding unit starts as soon as the operating screen is entered. Once moving, the floor-status indicator turns green and the application rate reaches the target.



Headland control

Use the toggle switch to turn the floor belt off as you enter the headland. The banding unit stops at the same time. Toggle the switch again as you leave to restart the floor belt. The banding unit remains preloaded, ready for the next row.



Technical review before release

1. Spinner-speed range

Confirm the stated 50–700 rpm range and reconcile it with values in the source graphics and text objects (source page 6).

2. Banding pre-loading

Confirm whether the door should be open before loading. Define the “midway point” and confirm the 20 / 100 / 600 mm override values (source pages 1 and 13).

3. Cleaning and greasing

The source calls unload mode useful for belt cleaning and greasing but supplies no isolation procedure. Those maintenance uses have been withheld from operating instructions pending SAM safety review (source page 6).

4. Missing procedures

The contents mention border control, but no procedure is supplied. The “two-click” calibration description is also incomplete. Obtain the correct procedures from SAM (source pages 2 and 4).

5. Release and translation check

Confirm the 1,000 rpm engine instruction, 40+ L/min flow, tractor plug compatibility and the applicability of screen examples. A fluent Gurmukhi Punjabi reviewer familiar with this machine must check the translation against the English before release.