



JD Rate Controller Setup for Romafa Section Control

IMPORTANT!

See the GreenStar Rate Controller and Display Operator's Manual from John Deere for complete safety, setup, calibration, and operating instructions.

***Using the JD Rate Controller Operator's Manual will assist you with the section control setup.**

Section 85 (Configuring Planter)

***Using the JD Display Operator's Manual will assist you with the section control system setup.**

GS3 2630 - Section 75 (Section Control)

4640 Universal Display - Section 40 (Section Control)

G5/G5PLUS Universal Display – Section 105 (Section Control)*

Master on/off switch needs to be off during any setup changes. Once setup is complete it can stay on. Master switch is controlled two ways. A short jumper plugged in at the two-position master switch connector on the Romafa CAN bus adapter harness or installed master foot switch supplied with JD Rate Controller kit.

Setup

A - Implement Tab

B - System Tab

C - Alarms Tab

D - Rates Tab

E - Implement Type Drop-Down Menu

F - Implement Name Drop-Down Menu

G - New Implement Button

H - Rename Implement Button

I - Remove Implement Button

J - Disable Rate Controller Checkbox

K - Implement Width Input Box

L - Setup Sections Button

M - Implement Sections

N - Associated Switch Box Switch Numbers

O - Height Switch Checkbox

P - Height Switch Message Drop-Down Menu

The screenshot shows a software interface with four tabs at the top: 'Implement' (A), 'System' (B), 'Alarms' (C), and 'Rates' (D). The 'Implement' tab is active. Below the tabs, there are two dropdown menus, both currently showing 'Planter'. The first dropdown is labeled E and the second is labeled F. Below these are three buttons: 'New' (G), 'Rename' (H), and 'Remove' (I). To the right of these buttons is a checkbox labeled 'Disable This GRC' (J). Below the buttons is a section for 'Implement Width (ft)' (K) with a text input box containing '60.00'. To the right of the input box is a button labeled 'Setup Sections' (L). Below the width section is a table with two rows of switch numbers. The first row contains ranges: '1-3', '4-6', '7-9', '10-12', '13-15', '16-18', '19-21', and '22-24'. The second row contains numbers: '1', '2', '3', '4', '5', '6', '7', and '8'. An arrow labeled M points to the first row, and an arrow labeled N points to the second row. At the bottom, there is a checkbox labeled 'Height Switch' (O) which is checked, and a dropdown menu labeled 'Do Not Share' (P).

E - Implement Type Drop-Down Menu

Planter **MUST** be chosen for this setup

F - Implement Name Drop-Down Menu

Select (G) NEW and enter a name of your choice

K - Implement Width Input Box

Enter your seeding tool width

L - Setup Sections Button

A - Enter the number of sections. On a JD cart 8 is the maximum number of sections (runs) that can be setup. Depending on the tool plumbing you may not be using all 8 sections (runs) of the cart which reduces the number of sections to be setup. Sections are numbered from left to right on the cart and need to be plumbed from left to right as they transition to the tool for proper section control.

- Double run carts do not change the setup. Top and bottom runs are pairs and should supply the same section area.

B - Enter row spacing according to seeding tool setup (e.g. 7.5" or 10").

C – Next page

Setup Sections

Enter number of sections and row spacing then continue to the next page.

Number of Sections **A**

Row Spacing (in) **B**

1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24
1	2	3	4	5	5	5	6	7	8	9	10

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Setup Sections

Enter the rows associated with this section then continue to the next page.

From row **1**

to row **D**

1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24
1	2	3	4	5	5	5	6	7	8	9	10

Enter the switch associated with this section

E

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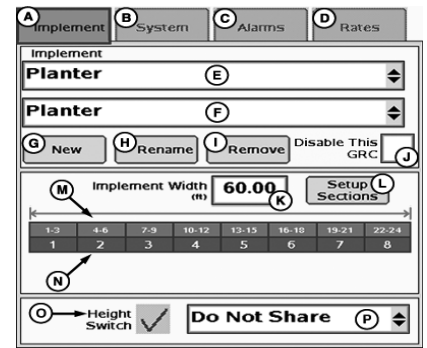
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D - Enter number of rows per section (number of secondaries off each primary tower remembering section one is on the left side of the seeding tool)

O - Height Switch Checkbox

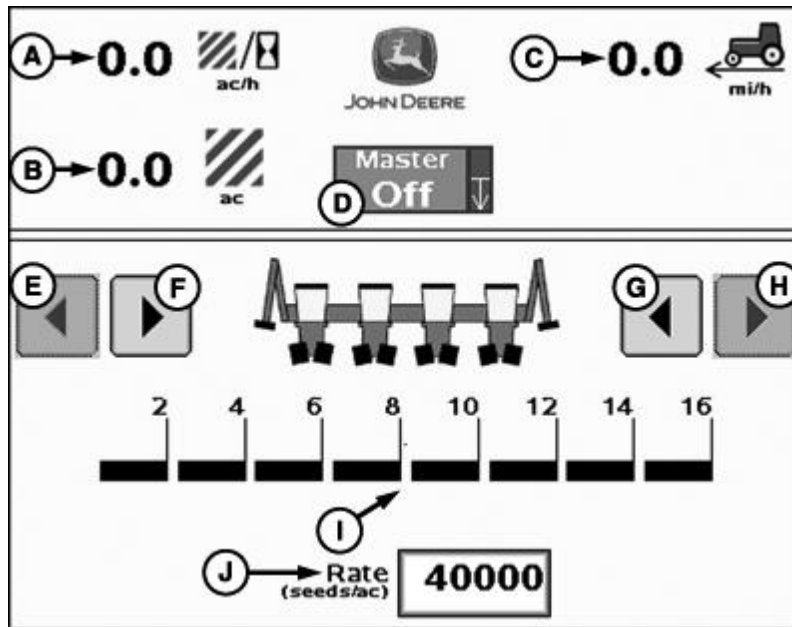
P - Height Switch Message Drop-Down Menu



If multiple Rate Controllers are being used on one unit only one height switch is needed. The Rate Controller that is wired to the height switch would be setup as **Send Status** and the second controller would be setup as **Receive Status**

The height switch must be an on/off switch. Potentiometer or variable height sensors will not work with this JD Rate Controller.

Section control operation page



A - Area Per Hour

B - Total Area

C - Travel Speed

D - Master Switch Indicator/Implement Height Switch Indicator

Shows position of master switch which must be on for system to function

Shows position of height switch at all time

E - Left Sections OFF Button

F - Left Sections ON Button

G - Right Sections ON Button

H - Right Sections Off Button

Operator can manually control sections on and off through these buttons

I - Section Indicator

Shows which sections are commanded on or off

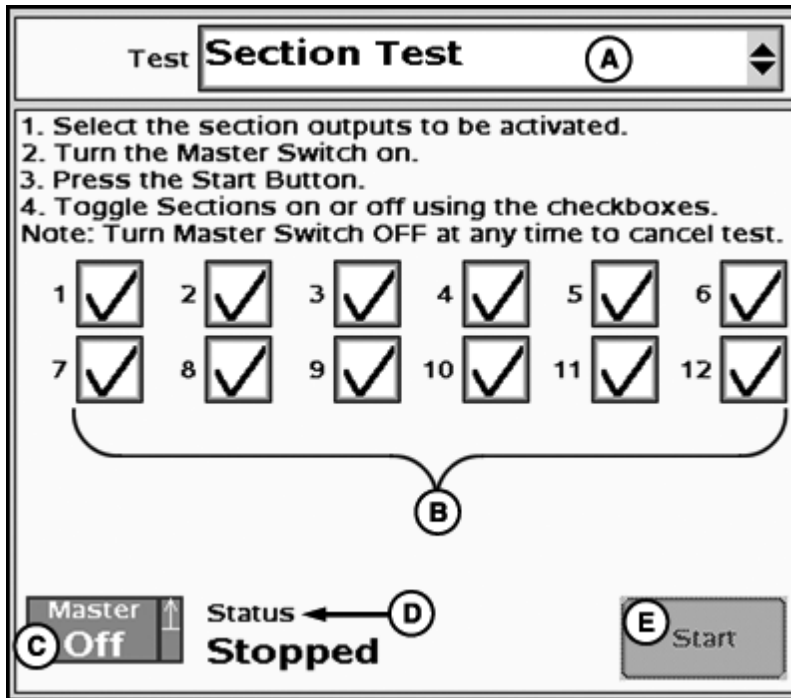
J - Seed Rate Input Box

Not used

Diagnostic testing

This feature allows you to command any section while standing still for section testing, height control monitoring and master switch control monitoring





A - Tests Drop-Down Menu

B - Section 1 through 12 ON/OFF Checkboxes

C - Master Switch Indicator/Implement Height Switch Indicator

D - Test Status

E - Start Section Test Button

Tips for Section control setup

- Remember the system is setup for sections to be labeled as section one being the far-left side of the tool. If your cart runs are not plumbed left to right from the cart to the tool, they will need to be replumbed accordingly
- Double run carts do not change the setup. Top and bottom runs are pairs and should supply the same section area for best performance.
- Make sure your measurements are entered into the implement setup through the 2630 display then adjust your on/off times accordingly for most accurate product application.
- **IMPORTANT:**
- Product type, rates, fan speed, and travel speed in and out of headlands can affect timings. Periodically check coverage in the ground to make sure that your timings are correct. ROMAFA Metalworks does not assume any responsibility for improper calibration of GPS settings, on/off times, overlap/skip settings, gate positioning or configuration. ROMAFA Metalworks also recommends that you use a blockage and flow monitoring system with this system.