

# MH-400 WIRELESS CONTROLLER OPERATION

The wireless controller operates the FLOOR and Option speeds, the direction of the main floor, and also adjusts the rear elevation and of the MH-400, through the BASE RECEIVING UNIT that is located on the MH-400 and connected to the hydraulic system. The BASE UNIT must have electric power in order to program or operate the WIRELESS CONTROLLER.

If your WIRELESS CONTROLLER reads WAITING FOR BASE then the BASE UNIT is not getting electric power. Check that your cables are properly connected and that the E-STOP button is not engaged.

## SAFETY

The WIRELESS CONTROLLER activates rapidly rotating parts and pinch hazards. Be sure to always be in line of sight of the ProPass when operating, adjusting or programming the WIRELESS CONTROLLER.

To ensure that the activation of the spinners and the floor is intentional, you must press the START buttons twice: once to SELECT and once to ENGAGE. This helps prevent accidental START when making manual adjustments on the machine.

If no buttons are pressed for 10 seconds when programming or preparing to operate the WIRELESS CONTROLLER, it will enter into an IDLE MODE and resort back to the last saved program or setting.


**CAUTION:** It is recommended that you POWER OFF your WIRELESS CONTROLLER and power-off your work vehicle (to ensure no hydraulic flow) when making any physical adjustments to the BLADES or FLOOR.


## WORKING MODE

Any time the WIRELESS CONTROLLER is turned on it is set to operate in WORKING MODE. It defaults to the last SAVED setting and allows you to operate the ProPass according to those settings.

### TO PROGRAM FOR WORKING MODE:

- 1) Connect the MH-400 to the electrical power source - do not engage hydraulic flow


- 2) Power ON  the WIRELESS CONTROLLER



- 3) Press  to view current saved OPTION setting on LCD display

- 4) Set OPTION SPEED   to desired percentage

- 5) Press   to STORE the setting

- 6) Press  to exit OPTION settings

- 7) Press  to view current saved FLOOR setting on LCD display

- 8) Set the FLOOR SPEED   to desired percentage

- 9) Press   to STORE the setting










- 10) Press  to exit FLOOR Setting

- 11) Press  to confirm your settings for WORKING MODE

The CONTROLLER is now set to operate at these settings. If the unit is powered off, these settings will be recalled automatically when powered back on.




### PROGRAMMING WITH ALL START:



You can also save both of your adjusted settings together.






- 1) Press  to view both current saved settings on the LCD display
- 2) Set your  and  to desired percentages and  and  to
- 3) Press   to STORE
- 4) Press  to exit
- 5) Press  to confirm your settings for WORKING MODE

*Keep in mind, the WIRELESS CONTROLLER will return to its last saved default setting after 10 seconds if no buttons are touched.*



### TO OPERATE IN WORKING MODE:

- 1) Ensure hydraulic flow is active
- 2) POWER ON  the WIRELESS CONTROLLER
- 3) As you approach the area requiring topdressing press  to SELECT the OPTION, press  again to ENGAGE the OPTION.

- 4) The LCD display will indicate when the OPTION has reached its target speed percentage.
- 5) When you are ready to spread material, press  to SELECT the FLOOR and then  again to ENGAGE the FLOOR.

- 6) When you wish to STOP spreading, press  to stop the flow of material.
- 7) To begin spreading again, press   to SELECT and ENGAGE the FLOOR.
- 8) When you are finished topdressing press  to stop the FLOOR then  to stop the OPTION.

If you wish to START all functions at once:

- 1) Press  to SELECT the FLOOR and the OPTION and confirm the settings
- 2) Press  to ENGAGE the FLOOR and the OPTION

*NOTE: With ALL START, the OPTION starts first and after a brief delay, the FLOOR engages.*

If you wish to STOP all functions at once:

- 1) Press  to DISENGAGE the FLOOR and the OPTION.







## ADJUSTING THE SETTINGS:

Adjustments can be made while the MH-400 is in operation or when the MH-400 is at idle. Any changes you make to the settings on the WIRELESS CONTROLLER can be SAVED and will become your new WORKING MODE.




If you make a change to the settings, and do not SAVE them, the WIRELESS CONTROLLER will default back to the last saved setting.

**CAUTION: When SAVING changes to your adjustments, the MH-400 will activate if there is any hydraulic flow. While adjusting or SAVING be sure to stay clear of moving parts and press STOP to complete.**

### TO SAVE OPTION SPEED WHILE IDLE:

- 1) Press  to view current saved setting on LCD display
- 2) Set   to desired percentage
- 3) Press   to STORE the setting (hydraulics will activate)
- 4) Press  to exit settings (hydraulics will stop)

### TO SAVE FLOOR SPEED WHILE IDLE:

- 1) Press  to view current saved setting on LCD display
- 2) Set   to desired percentage

- 3) Press   to STORE the setting (hydraulics will activate)

- 4) Press  to exit OPTION settings (hydraulics will stop)

### ADJUSTING DURING OPERATION:

You can make settings adjustments as the MH-400 is operating by increasing or decreasing the FLOOR or OPTION speeds and observing the results directly. If you make a change to the settings and do not SAVE them, the WIRELESS CONTROLLER will default back to the last saved WORKING MODE. Any settings made while the MH-400 is in OPERATION will remain active until SAVED or STOPPED.

### TO SAVE OPTION SPEED WHILE OPERATING:

- 1) Set   to desired percentage
- 2) Press  to STORE the setting

### TO SAVE FLOOR SPEED WHILE OPERATING:

- 1) Set   to desired percentage
- 2) Press  to STORE the setting

## PRESET MODE

The WIRELESS CONTROLLER comes with 3 PRESET buttons that allow you to STORE commonly used or recently adjusted settings for use in WORKING MODE.

*Example A: With a spinner, PRESET '1' may be an Light setting for frequent topdressing, '2' may be a Medium setting and '3' may be a Heavy setting.*

Or


*Example B: With a cross-conveyor, PRESET '1' may be a low speed, high volume discharge for precise placement, '2' may be a high-speed (distance) low-volume for loose scattering and '3' may be medium speeds for general delivery while in motion.*

Use your PRESET buttons to suit your course conditions, maintenance practices and topdressing program.

### PROGRAMMING THE PRESETS:


- 1) Connect the MH-400 to the electrical power – do not engage hydraulic flow

- 2) POWER ON  the WIRELESS CONTROLLER

- 3) Select  to view current saved setting





- 4) Adjust OPTION   to desired setting

- 5) Press  to ACTIVATE

- 6) Select  to view current saved setting

- 7) Adjust the FLOOR   to desired setting

- 8) Press  to ACTIVATE

- 9) Press and hold  and ONE of the PRESET numbers ,  OR 

- 10) Press  to exit


Repeat this process for each PRESET number as required.





### STORING WORKING MODE TO PRESET:


If you are in WORKING MODE and your MH-400 is IDLE, you can add the current settings to one of the PRESET buttons.

**CAUTION: When SAVING changes to your adjustments, the MH-400 will activate if there is any hydraulic flow. While adjusting or SAVING be sure to stay clear of moving parts and press STOP to complete.**

- 1) Press  to view both settings

- 2) Press  again to ACTIVATE (hydraulics will engage)




- 3) Press and hold  and ONE of the PRESET numbers ,  OR 

- 4) Press  to exit (hydraulics will stop)

TO OPERATE IN PRESET MODE:

- 1) Ensure hydraulic flow is off


- 2) POWER ON  the WIRELESS CONTROLLER

- 3) Press the  ,  OR  – FLOOR and OPTION settings will be displayed


- 4) Press   to STORE to WORKING MODE

- 5) Press  to exit


- 6) Ensure hydraulic flow is active



- 7) As you approach the area requiring topdressing press  to SELECT the OPTION

- 8) Press  to ENGAGE the OPTION.






- 9) When you are ready to spread material, press  to SELECT the FLOOR

- 10) Press  to ENGAGE the FLOOR.

- 11) When you wish to stop spreading, press  to stop the flow of material.

- 12) To begin spreading again, press   to ENGAGE.

If you wish to START all functions at once:

- 1) Press  ,  OR 
- 2) Press  to SELECT the FLOOR and the OPTION.
- 1) Press  to ENGAGE the FLOOR and the OPTION.

If you wish to STOP all functions at once:






- 1) Press  to DISENGAGE the FLOOR and the OPTION.


*NOTE: With ALL START, the OPTION starts first and after a brief delay, the FLOOR engages. When ALL STOP is pressed, the FLOOR stops first followed by the OPTION.*

CHANGING BETWEEN PRESETS:






**CAUTION: When changing PRESETS while idle, the MH-400 will activate if there is any hydraulic flow. While adjusting PRESETS be sure to stay clear of moving parts and press ALL STOP to complete.**

CHANGING PRESET WHILE IDLE:

- 1) Press  ,  OR  – FLOOR and OPTION settings will be displayed
- 2) Press  to ACTIVATE
- 3) Press  to STORE to WORKING MODE (hydraulics will engage)











- 4) Press  to exit (hydraulics will stop)

CHANGING PRESET WHILE OPERATING:











- 1) Press  ,  OR  – FLOOR and OPTION settings will be displayed
- 2) Press   to ENGAGE and STORE to WORKING MODE

**CAUTION: When SAVING changes to your adjustments, the MH-400 will activate if there is any hydraulic flow. While adjusting or SAVING be sure to stay clear of moving parts and press STOP to complete.**








TO STORE OPTION SPEED TO PRESET WHILE IDLE:

- 1) Press  to view current saved setting on LCD display
- 2) Set   to desired percentage
- 3) Press   to STORE the setting (hydraulics will activate)
- 4) Press and hold  and ONE of the PRESET numbers  ,  OR 
- 5) Press  to exit settings (hydraulics will stop)

TO STORE FLOOR SPEED TO PRESET WHILE IDLE:





- 1) Press  to view current saved setting on LCD display
- 2) Set   to desired percentage
- 3) Press   to STORE the setting (hydraulics will activate)
- 4) Press and hold  and ONE of the PRESET numbers  ,  OR 
- 5) Press  to exit OPTION settings (hydraulics will stop)

TO STORE OPTION SPEED TO PRESET WHILE OPERATING:



- 1) Set   to desired percentage
- 2) Press  to STORE to WORKING MODE
- 3) Press and hold  and ONE of the PRESET numbers  ,  OR 

TO STORE FLOOR SPEED TO PRESET CHANGES WHILE OPERATING:

- 1) Set   to desired percentage
- 2) Press  to STORE to WORKING MODE

- 3) Press and hold  and ONE of the PRESET numbers ,  OR 

TO RAISE OR LOWER THE REAR OF THE MH-400:

- 1) Press and hold  to raise the rear of the MH-400.
- 2) Press and hold  to lower the rear of the MH-400.

*Note: The elevation of the rear of the MH-400 cannot be saved within the PRESETS.*

TO REVERSE THE MAIN FLOOR OF THE MH-400:

- 1) Press and hold  to reverse the main FLOOR of the MH-400.

*Note: The speed of the reversed FLOOR is set at a constant MEDIUM SLOW rate, and cannot be adjusted faster or slower.*