

Hiniker 8100 Console

Distance Calibration Notes

- A. If you are using a remote Run/Hold switch, the BOOM cable must be grounded so that the console can come out of HOLD.
- Pin 1 of the BOOM cable (Ground) can be grounded directly to the tractor or to the tractor through some type of remote Run/Hold switch. That switch could be a toggle switch in the cab, a dimmer switch in the cab, a switch on the NH3 shut-off valve, or a whisker switch. The ground wire must be grounded to the tractor for reliable operation.
 - **NOTE:** Pin 1 is now the Black wire in the BOOM cable, but originally (Pre-1994) the wire was White. Please verify which wire is connected to Pin 1 prior to grounding the console.
- B. WHEEL SENSOR - This procedure **MUST** be done in field soil conditions.
- C. RADAR or GPS SPEED SENSOR - This procedure can be done anywhere.

Distance Calibration Procedure

1. Measure off 500 feet
2. Stop before you get to the first flag
3. Remote Run/Hold to off
 - ① *Ignore this step if you are not using some type of external Run/Hold switch as described above in A.*

To enter the calibration mode of the console:

4. Push and hold SET key and turn console off, then back on.
 - ① *If you are using a remote Run/Hold switch, put the console switch in the RUN position.*
 - ① *If you do NOT have a remote Run/Hold switch, put the console switch in the HOLD position.*
 - a. Clear Gallons = Press YES key
 - b. Clear Acres = YES
 - c. Inline System = YES
 - d. Valve Rate = Press SET key
 - e. GPA Rate 1 = SET
 - f. GPA Rate 2 = SET
 - g. Left Boom = Push + key until you reach 8712, then press SET
 - h. Center Boom = Push + key until you reach 8712, then press SET
 - i. Right Boom = Push + key until you reach 8712, then press SET
 - j. Wheel Circ. = 84.0 (Push + or – to get 84.0 if it is not already)
5. Push ACRES or AREA key – Console will read 0 acres.
 6. All **THREE** boom switches must be **ON**

(OVER)

7. Put tractor into gear – Go forward at field speed
8. At first flag – Turn Remote R/H **ON** or the console switch to **RUN**
9. At second flag – Turn Remote R/H **OFF** or the console switch to **HOLD**
10. Stop tractor
11. Calculate New Wheel Circ. = $2100 \div$ Accumulated acres on console
12. Push and hold SET key and turn console off then back on
 - a. Clear Gallons = Press YES
 - b. Clear Acres = **NO**
 - c. Inline System = YES
 - d. Valve Rate = Press SET
 - e. GPA Rate 1 = SET
 - f. GPA Rate 2 = SET
 - g. Left Boom = 8712, press SET
 - h. Center Boom = 8712, SET
 - i. Right Boom = 8712, SET
 - j. Wheel Circ. = Enter new wheel circ. (Push + or – to get that number)
13. Push ACRES or AREA key – Console will read 25.0 acres.
 - a. If it is not 25.0, then go back to step 12 and change the wheel circumference.
 - If Acres was 24.9, **raise** the wheel circ. by 0.1.
 - If Acres was 25.1, **lower** the wheel circ. by 0.1.

IT MUST READ 25.0 ACRES

14. Set Acres to 0 by pushing and holding SET key and turn console off then back on
 - a. Clear Gallons = Press YES
 - b. Clear Acres = YES
15. Push ACRES or AREA key – Console will read 0 acres
16. Re-run the 500 feet with the new wheel circumference number
17. At first flag – Turn Remote R/H **ON** or the console switch to **RUN**
18. At second flag – Turn Remote R/H **OFF** or the console switch to **HOLD**
19. Acres should read 25.0 – If not, go back to steps 12 and 13

REPROGRAM AS SHOWN IN THE *CALIBRATION SECTION* OF THE 8100 MANUAL

YOU'RE READY TO SPRAY!