



X30 MONITOR TRAINING

ICT Module 4 : Section Timing

STEP 1

- Drive your tractor and implement into an open field.
- You will need a fairly large open area as we will be making several passes in each direction to adjust the Section On/Off times.



STEP 2

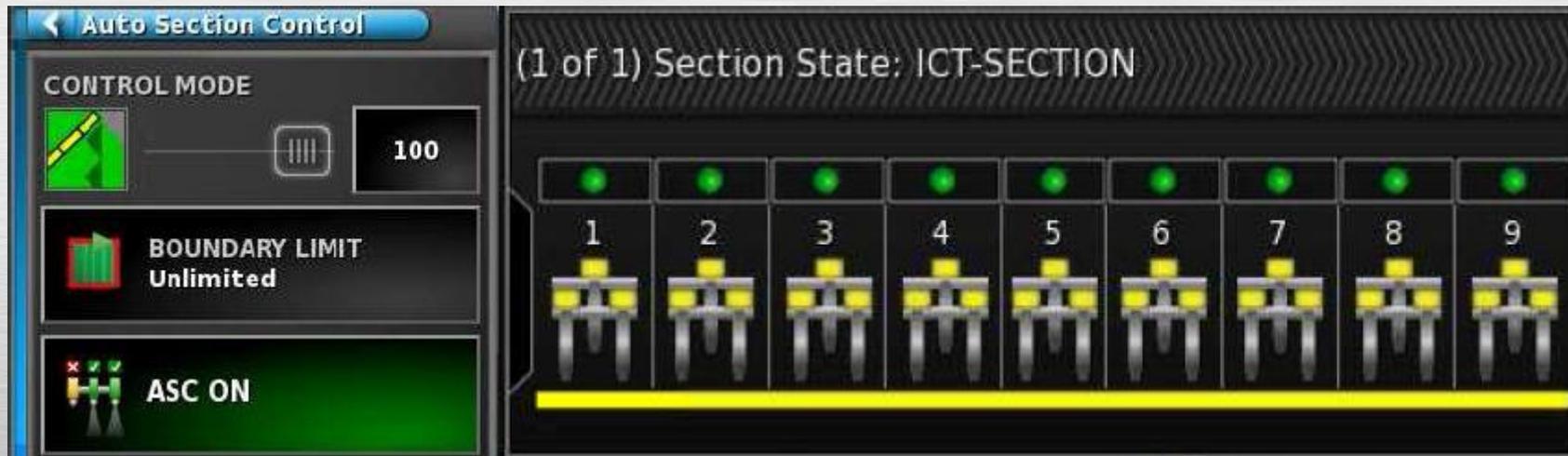
- Turn **On** the Tank which is the furthest away from the drill (FRONT TANK TBW or REAR TANK TBH).

The screenshot displays the tractor's control interface, divided into several sections:

- Guidance:** Shows a top-down view of the field with a yellow guidance line and a green field area.
- Auto Section Control:**
 - CONTROL MODE: 100
 - BOUNDARY LIMIT: Unlimited
 - ASC ON: Indicated by a green bar.
- Seeder Controller:**
 - Four fertilizer tanks (1-4) are shown, each with a fertilizer icon, a rate of 0.0 lb/ac, and a percentage of 0%.
 - Requested Rate for all tanks is 50 lb/ac.
 - Each tank has +/- adjustment buttons and a range of 50-70 lb/ac.
 - Fan Status: 1.1 ppi, 2975 rpm (Tank 1), 2980 rpm (Tank 2).
 - Section State: ICT-SECTION, showing 9 sections with status indicators.
- Bottom Status Bar:**
 - Engine RPM: 2936 (Tank 1), 3070 (Tank 2).
 - Application Rates: 0.0% (Tank 1), 0.9% (Tank 2), 0.0% (Tank 3), 9.8% (Tank 4), 0.0% (Tank 5), 10.0% (Tank 6), 0.0% (Tank 7), 10.0% (Tank 8), 0.0% (Tank 9).
 - Speed: 0.0 mph.
 - Steering: 90°.

STEP 3

- Ensure **ASC is ON** and the **SECTIONS ARE ENGAGED**



STEP 4

- The monitor Section Timing will automatically turn the metering system On several seconds ahead to compensate for the lag time it take to product to travel through the airstream to the openers.
- As you cross over the Headland into the unseeded portion of the field the product should be fully discharging out of the openers.

Controller Setup - 9650TBW-ICT-71FT-C2 - ICT-SECTION

2

Section	On Time	Off Time	Select
All	9/9	9/9	✓
1	6.0 s	4.0 s	✓
2	6.0 s	4.0 s	✓
3	6.0 s	4.0 s	✓
4	6.0 s	4.0 s	✓
5	6.0 s	4.0 s	✓
6	6.0 s	4.0 s	✓
7	6.0 s	4.0 s	✓
8	6.0 s	4.0 s	✓
9	6.0 s	4.0 s	✓

Navigation icons: Select, New, ECU, Geometry, Section Control, Operator Inputs, Seeder, Speed, User, System, Vehicle, Implement, Product.

STEP 5

- First make two back to back passes covering roughly 300 yards each direction. This will create two swath widths of coverage area.
- It is recommended to set an A-B line on your guidance system to avoid any gaps.



STEP 6

- **GEOMETRY CHECK**
- After the two passes are completed. Turn off the Master Switch
- Toggle your Map view mode to **North View Up (Use the Zoom +)**
- Drive your implement through the covered area slowly and align the most forward opener to the very edge of the previous pass.



STEP 6 CONT

- Compare that the virtual Implement on the X30 mapping screen matches the real unit in the field..



STEP 7

- Drive forward 100 yards and then make a U-turn and head into the covered area at normal operating speed.



STEP 8

- Toggle the Map view back to Perspective view.
- Engage the Master switch.
- Place openers all the way into the ground.
- Drive into covered area applying product.



STEP 9

- Continue driving completely through the covered area.
- The ASC will have turned metering system OFF automatically.
- The ASC will have resumed by turning the Metering system ON several seconds early to allow for the lag time of the product to flow through the air stream.
- Have a helper run along the side of the machine to listen and verify product on /off times.

TIP: WATCHING THE MOTOR LOAD GAUGE WILL ALLOW YOU TO KNOW WHEN THE METERING HAS ENGAGED / DISENGAGED



STEP 10

- Notice how there is a slight amount of overlap.

VERIFY PRODUCT HAS BEEN APPLIED SLIGHTLY BEFORE EXISTING COVERAGE

VERIFY PRODUCT HAS ENDED SLIGHTLY AFTER EXISTING COVERAGE



STEP 11

Controller Setup - 9650TBW-ICT-71FT-C2 - ICT-SECTION

2

Section	On Time	Off Time	Select
All	9/9	9/9	✓
1	6.0 s	0.5 s	✓
2	6.0 s	0.5 s	✓
3	6.0 s	0.5 s	✓
4	6.0 s	0.5 s	✓
5	6.0 s	0.5 s	✓
6	6.0 s	0.5 s	✓
7	6.0 s	0.5 s	✓
8	6.0 s	0.5 s	✓
9	6.0 s	0.5 s	✓

Navigation icons: Select, New, ECU, Geometry, Section Control, Operator Inputs, Seeder, Speed, User, System, Vehicle, Implement, Product.

REMEMBE TRAVELLING AT 5
MPH is = 7.33 ft/s

Examine the furrow by digging up soil to verify where the actual product placement begins/ends.

Adjust the Section timing if needed.

- < On Time = More overlap (The Greater the ON time the more overlap)
- > Off Time = More overlap (The Lower the OFF time the more overlap)

STEP 12

- With the ICT system you can now seeding on a 45° angle. Experiment with the Overlap Control to which best suit your conditions.



STEP 13

- When needed, toggle **ASC OFF** to seed in previously covered areas. Or to finish up the inside the Headlands.

