# Instructions for Hydraulic Ag Gate Box Setup for the G4

The dry application is an optional product. To purchase the unlock, contact your dealer for an IF2/3 Dry unlock code. Next, refer to Chapter Nine for more information about "Authorize Feature Unlock."
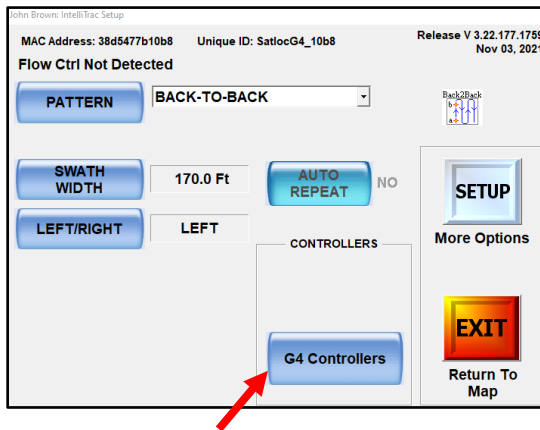
The ag hydraulic gate box must be installed before setting up the G4 with the gate box.

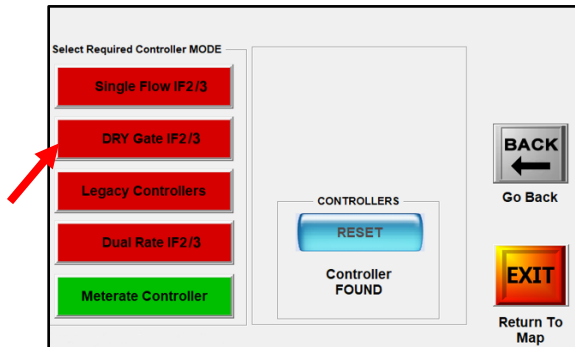|	Description
Hardware	• Transland Hydraulic Gate Box
Software	• On the G4, the recommended IntelliTrac software is 3.22.172.1750 or later

1. For the calibration and setup of the IF2/IF3 to work, begin with the gate in the latched/locked position.
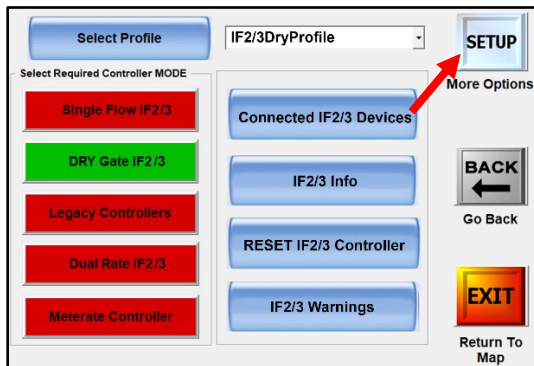
2. From the Maps screen, select "**Setup**."
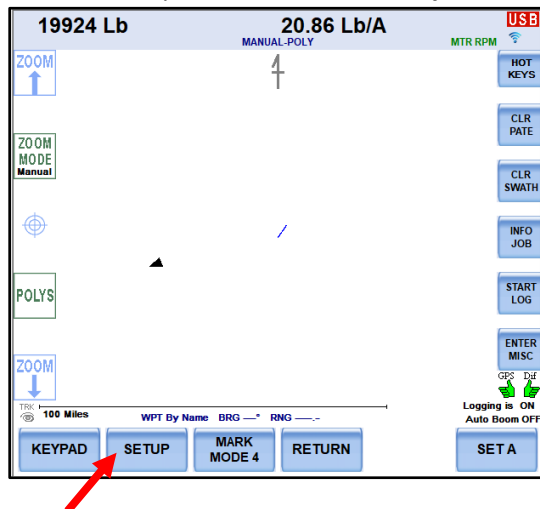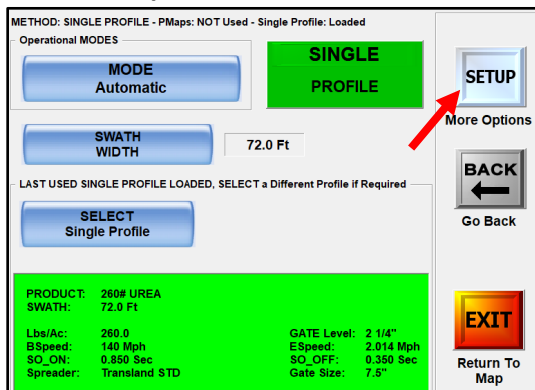
3. Select "**G4 Controllers**."

4. Select "**Dry Gate IF2/3**."
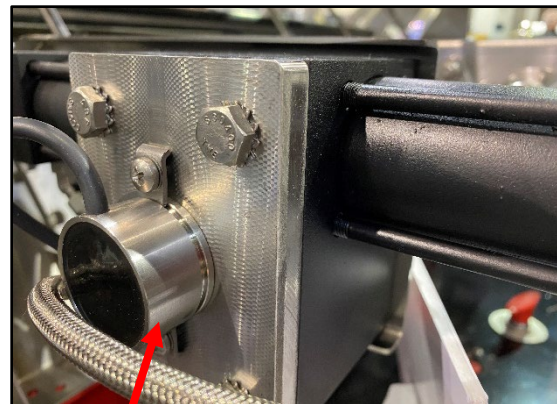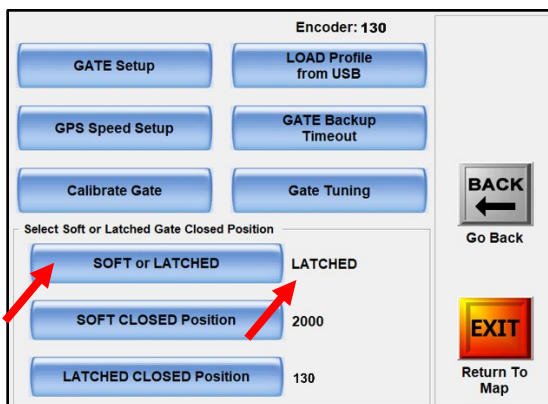

5. Select "**Setup**."

6. Select "**Setup**."

7. With the gate latched/locked closed, adjust encoder on the gate until the encoder range for the min value is 130-145. **Note:** If value is not in that range, adjust position sensor to be within that range. The encoder value is adjusted by loosening the screws on the position sensor and rotating it until it is in the min value range.
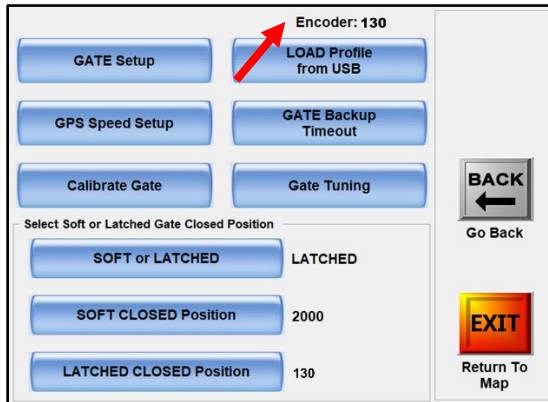
8. Select "**Soft or Latched**" until side states "latched."

Position Sensor

9. With it latched, read the encoder value and record it.
   Note: The range for the min value is 130-145. If value is not in that range, adjust position sensor on the gate to be within that range.

10. Select "**Latched Closed Position**" and enter the encoder value.

11. Select "**Accept**."

12. On the G4, select "**Gate Setup**."

13. From the dropdown menus, select Min Level, Max Level, and Gate Size.

14. Select "**Back**."

15. Select "**Calibrate Gate**."

NOTE: It is optional to disconnect hydraulics and then manually adjust the gate. There is a hydraulic disconnect in the cockpit, which is usually a red knob.

Note: The next three steps take two people.

16. For Gate Level 1, bump the gate around until you get the 1/16" – tapping "**Gate Up**" or "**Gate Down**" (someone is measuring the gate while the other person is in the cockpit). Once it is set, click "**Accept.**"

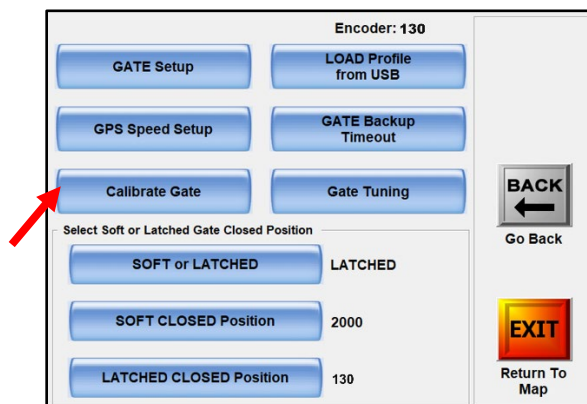| Level #		Level	Last CAL	Encoder
Gate Level	1	1/16"	189	0
Gate Level	2	1/4"	0	0
Gate Level	3	1/2"	219	219
Gate Level	4	3/4"	234	234
Gate Level	5	1"	250	250
Gate Level	6	1 1/4"	264	264
Gate Level	7	1 1/2"	278	278
Gate Level	8	1 3/4"	291	291
Gate Level	9	2"	303	303
Gate Level	10	2 1/4"	314	314
Gate Level	11	2 1/2"	326	326
Gate Level	12	2 3/4"	338	338
Gate Level	13	3"	350	350
Gate Level	14	3 1/2"	373	373
Gate Level	15	4"	394	394
Gate Level	16	4 1/2"	415	415
Gate Level	17	5"	434	434

Set ON TIME Step Period

GATE UP   GATE DOWN

UP   BACK — Go Back

DOWN

Accept   EXIT — Return To Map

NOTE: The "Set ON TIME Step Period" button can decrease or increase the amount of time sending the command to the pump. Adjusting the time will allow less or more time to get the correct position.

17. Tap "**Down**" to go to Gate Level 2.

18. Bump the gate to ¼" – tapping "**Gate Up**" or "**Gate Down**" (someone is measuring the gate while the other person is in the cockpit). Once it is set, click "**Accept**".

Another option to bump the gate to ¼" is with the system unarmed and the hydraulic pump disabled, pull the hydraulic bypass to free the gate box door. The door may be moved by hand to achieve the calibration measurements.

19. Follow Steps 10-12 until all Gate Levels are complete. The image below shows the numbers for the different gate levels.

Level #		Level
Gate Level	1	1/16"
Gate Level	2	1/4"
Gate Level	3	1/2"
Gate Level	4	3/4"
Gate Level	5	1"
Gate Level	6	1 1/4"
Gate Level	7	1 1/2"
Gate Level	8	1 3/4"
Gate Level	9	2"
Gate Level	10	2 1/4"
Gate Level	11	2 1/2"
Gate Level	12	2 3/4"
Gate Level	13	3"
Gate Level	14	3 1/2"
Gate Level	15	4"

TL 5" HYD Gate Box

Level #		Level
Gate Level	1	1/16"
Gate Level	2	1/4"
Gate Level	3	1/2"
Gate Level	4	3/4"
Gate Level	5	1"
Gate Level	6	1 1/4"
Gate Level	7	1 1/2"
Gate Level	8	1 3/4"
Gate Level	9	2"
Gate Level	10	2 1/4"
Gate Level	11	2 1/2"
Gate Level	12	2 3/4"
Gate Level	13	3"
Gate Level	14	3 1/2"
Gate Level	15	4"
Gate Level	16	4 1/2"
Gate Level	17	5"

TL 7.5" HYD Gate Box

Level #		Level
Gate Level	1	1/16"
Gate Level	2	1/4"
Gate Level	3	1/2"
Gate Level	4	3/4"
Gate Level	5	1"
Gate Level	6	1 1/4"
Gate Level	7	1 1/2"
Gate Level	8	1 3/4"
Gate Level	9	2"
Gate Level	10	2 1/4"
Gate Level	11	2 1/2"
Gate Level	12	2 3/4"
Gate Level	13	3"
Gate Level	14	3 1/2"
Gate Level	15	4"
Gate Level	16	4 1/2"
Gate Level	17	5"
Gate Level	18	6"
Gate Level	19	7"
Gate Level	20	8 1/2"

TL 10" HYD Gate Box

20. When all gate levels are complete, select "**Back**."

Level #		Level	Last CAL	Encoder
Gate Level	1	1/16"	0	0
Gate Level	2	1/4"	0	0
Gate Level	3	1/2"	219	219
Gate Level	4	3/4"	234	234
Gate Level	5	1"	250	250
Gate Level	6	1 1/4"	264	264
Gate Level	7	1 1/2"	278	278
Gate Level	8	1 3/4"	291	291
Gate Level	9	2"	303	303
Gate Level	10	2 1/4"	314	314
Gate Level	11	2 1/2"	326	326
Gate Level	12	2 3/4"	338	338
Gate Level	13	3"	350	350
Gate Level	14	3 1/2"	373	373
Gate Level	15	4"	394	394
Gate Level	16	4 1/2"	415	415
Gate Level	17	5"	434	434
Gate Level	18	6"	471	471
Gate Level	19	7"	504	504
Gate Level	20	8 1/2"	540	540

Set ON TIME Step Period

GATE UP   GATE DOWN

UP   BACK   Go Back

DOWN

Accept   EXIT   Return To Map

21. Select "**Gate Tuning**."

Encoder: 130

GATE Setup   LOAD Profile from USB

GPS Speed Setup   GATE Backup Timeout

Calibrate Gate   Gate Tuning   BACK   Go Back

Select Soft or Latched Gate Closed Position

SOFT or LATCHED   LATCHED

SOFT CLOSED Position   2000   EXIT   Return To Map

LATCHED CLOSED Position   130
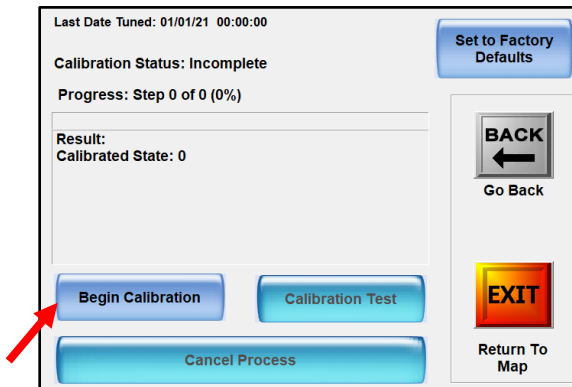
22. Ensure that the ARM and Primary/Secondary are ON on the Transland Control Panel. The pilot trigger (red button) on the control stick must be up (triggered).
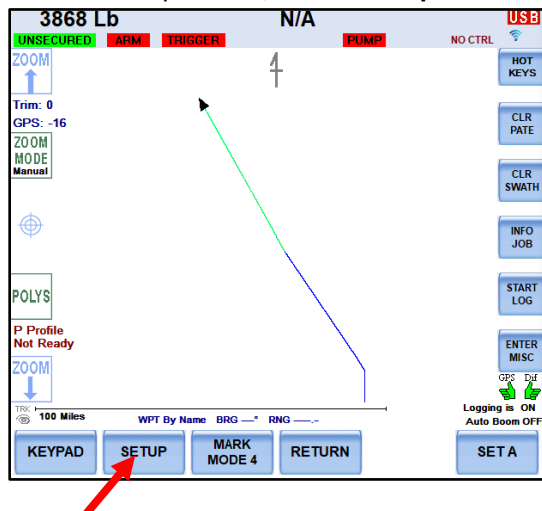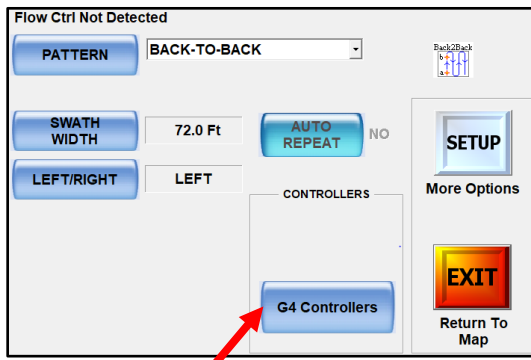

23. Select "**Begin Calibration**."

24. When calibration is complete, go back to Map screen by selecting "**Exit**."

25. From the Map screen, select "**Setup**."
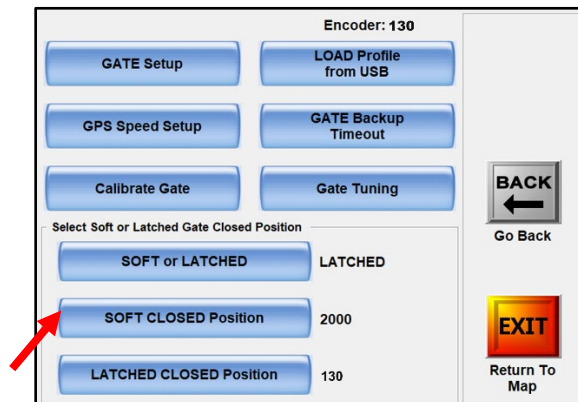
26. Select "**G4 Controllers**."

27. Select "**Setup**" two times.

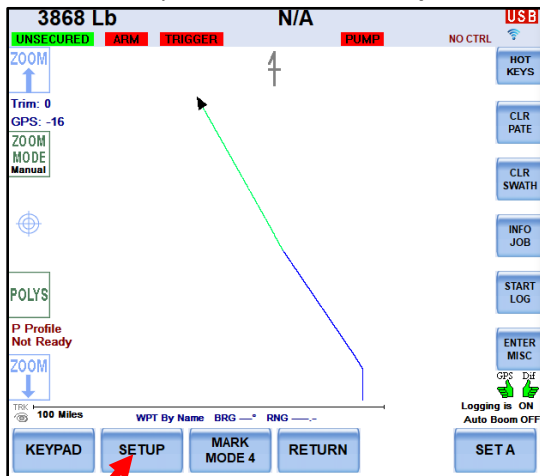28. Get the gate door to 1/16" of an inch opening.

29. Record encoder value.

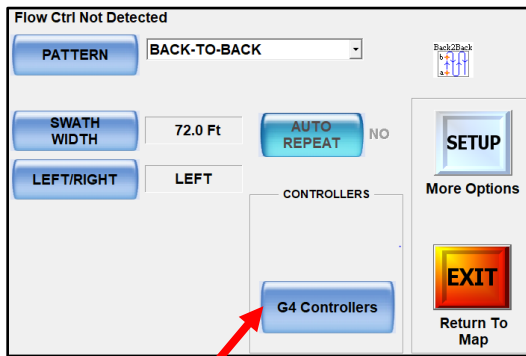30. Select "**Soft Closed Position**" and enter the encoder value.

31. Select "**Accept**."

32. Select "**Exit**."
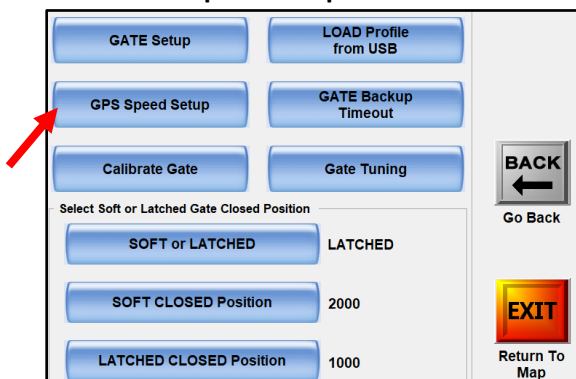
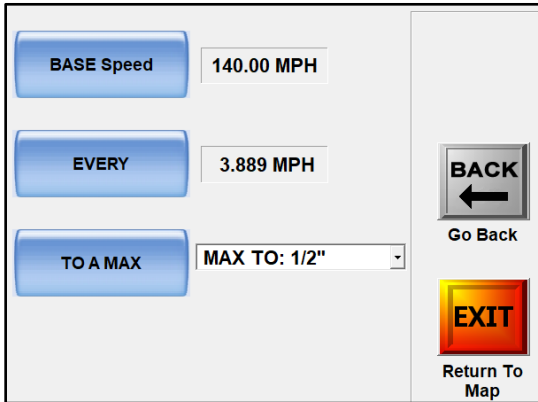33. From the Map screen, select "**Setup**."

34. Select "**G4 Controllers**."

35. Select "**Setup**" two times.

36. Select "**GPS Speed Setup.**"

37. Based upon application, enter speed.

BASE Speed	**140.00 MPH**
EVERY	**3.889 MPH**
TO A MAX	**MAX TO: 1/2"** ▾

BACK ←
Go Back

EXIT
Return To Map

38. Select "**Exit**."