# SERVICE MANUAL

## P2350 / P3440 / P3550 / P4460 / P4580 / P4760 / P4950

## Air Cart

**Part number 47827462**
1st edition English
April 2017



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| | | | Tire Size | Single/ Dual | Wheel bolt torque |
|---|---|---|---|---|---|
| P3550 | Front | Base | 18.4-38 R1 TD19 | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |
| | | High flotation | 650/75R38 SFT | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |
| P4580 | Rear | Base | 900/60R32 CHO SFT | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |
| | | High flotation | 650/75R38 SFT | Dual | 931 N·m +/- 140 N·m ( 687 lb ft +/- 103 lb ft ) |
| P4760 | Front | Base | 650/75R38 SFT | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |
| | | High flotation | 800/70R38 SFT | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |
| | Rear | Base | 800/70R38 CHO SFT | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |
| | | High flotation | 800/70R38 SFT | Dual | 931 N·m +/- 140 N·m ( 687 lb ft +/- 103 lb ft ) |
| P4950 | Front | Base | 800/70R38 SFT | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |
| | Rear | Base | 800/70R38 SFT | Dual | 931 N·m +/- 140 N·m ( 687 lb ft +/- 103 lb ft ) |
| | | High flotation | 800/70R38 CHO SFT | Dual | 931 N·m +/- 140 N·m ( 687 lb ft +/- 103 lb ft ) |

## Row crop and controlled traffic tire option

### Row crop rear dual

| | | Tire Size | Single/Dual | Wheel bolt torque |
|---|---|---|---|---|
| P2350 | Tow-between<br>Tow-behind | 480/80R42 151A8 AC85 | Dual | 931 N·m +/- 140 N·m ( 687 lb ft +/- 103 lb ft ) |

### Row crop and controlled traffic front

| | | Tire Size | Single/Dual | Wheel bolt torque |
|---|---|---|---|---|
| P2350 | Tow-behind | 380/90R46 159A8 AC85 | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |
| P3440 | Tow-behind | 380/90R46 159A8 AC85 | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |
| P4460 | Tow-behind | 380/90R46 159A8 AC85 | Single | 441 N·m +/- 66 N·m ( 325 lb ft +/- 49 lb ft ) |



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# Wiring harnesses - Electrical schematic sheet 05 10 motor harness (1 per tank) - 555 Bu and 580 Bu tow behind

| | |
|---|---|
| P3550 | |
| P4580 | |

| Type | Component | Connector / Link | Description |
|---|---|---|---|
| Dust cap | **DC-411** | DC-411 | DUST CAP / LOOP PLUG FOR X-411 |
| Dust cap | **DC-416** | DC-416 | DUST CAP / LOOP PLUG FOR X-416 |
| Dust cap | **DC-420** | DC-420 | DUST CAP / LOOP PLUG FOR X-420 |
| Ground | **GND-001** | **X-423** | PIPE GROUND |
| Ground | **GND-002** | **X-424** | PIPE GROUND |
| Ground | **GND-003** | **X-425** | SUB-HOPPER FRAME GROUND |
| Connector | X-410 | **X-410** | TANK MOTORS |
| Connector | X-411 | **X-411** | MOTOR 1 |
| Connector | X-412 | **X-412** | MOTOR 2 |
| Connector | X-413 | **X-413** | MOTOR 3 |
| Connector | X-414 | **X-414** | MOTOR 4 |
| Connector | X-415 | **X-415** | MOTOR 5 |
| Connector | X-416 | **X-416** | MOTOR 6 |
| Connector | X-417 | **X-417** | MOTOR 7 |
| Connector | X-418 | **X-418** | MOTOR 8 |
| Connector | X-419 | **X-419** | MOTOR 9 |
| Connector | X-420 | **X-420** | MOTOR 10 |



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B. Fault not present, return unit to field operation.

5. Perform the UCM troubleshooting procedure. See **Controller Area Network (CAN) data bus - Problem solving UCM (55.640)**.

   A. Fault still present, reinstall original UCM, submit a concern through ASIST.

   B. Fault not present, return unit to field operation.



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## 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3308, 3309, 3310, 3311, 3312, 3313, 3314, 3315, 3316, 3317, 3318, 3319, 3320, 3321, 3322, 3323, 3324, 3325, 3326, 3327, 3328, 3329, 3330, 3331, 3332, 3333, 3334, 3335, 3336, 3337, 3338, 3339, 3340, 3341, 3342, 3343, 3344, 3345, 3346, 3347 3348 – "Motor is Not Communicating"

This alarm informs the operator that a motor does not have a unique position.

- The alarm is raised at the end of the startup motor detection and position assignment sequence if a motor that successfully passed the XWDC position query/assign phase (either the motor already had the desired position assignment, or was successfully assigned to the correct position) failed to respond to the subsequent "ping" query for RPM. This is an indication that two or more motors on the machine have the same position assignment and both attempt to respond to the same query for RPM, resulting in a collision in the Local Interconnect Network (LIN) bus and no valid response back to the UCM.
- The alarm is only cleared upon a power cycle.




SAE165E0024GAA 15

## 7003 – "Task Controller Incompatibility"

This alarm informs the operator the air cart is not compatible with the Task Controller.

- The alarm is raised if the detected task controller version is lower than version 2 (ISO Standard 2009, First edition).
- The alarm is only cleared upon a power cycle.




SAE165E0024TAA 16

## 7004 – "Work Switch Signal Lost"

This alarm informs the operator that the selected source of the in-ground (work) state is no longer present.

- The alarm is only applicable when the selected source for the in-ground state is the CAN-based Seed Tool Pressure Work Switch. The alarm is raised if the work state CAN message is not received within **60.0 s** of startup or if the message is not received for 5.0 seconds after at least one message has been received.
- The selected source for the in-ground state is automatically switched to NONE. It would be undesirable to freeze at the last known in-ground state because that would make it impossible to transition between in-ground and out-of-ground until a different source was manually selected.
- The alarm is cleared upon selection of a new in-ground source.




SAE165E0024GAA 17

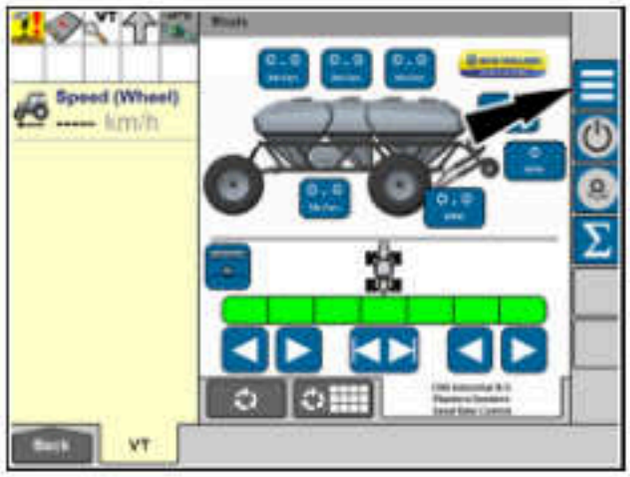


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# Cab seeding controls - Check faults

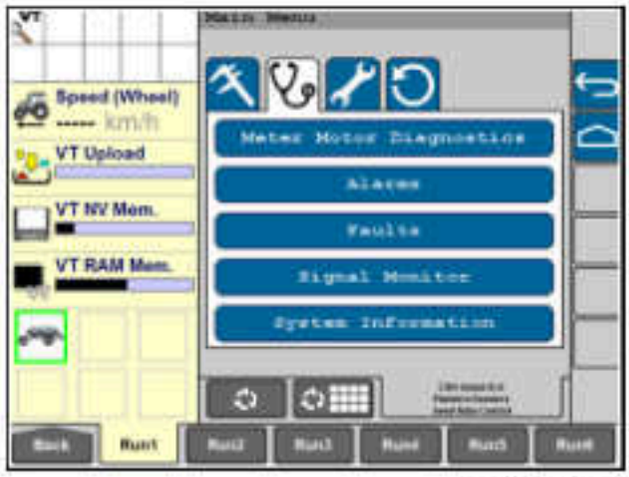
***NOTE:*** *Active faults can be accessed by pressing the fault button on the top of the "Run" screen.*

1. Select the main menu button .



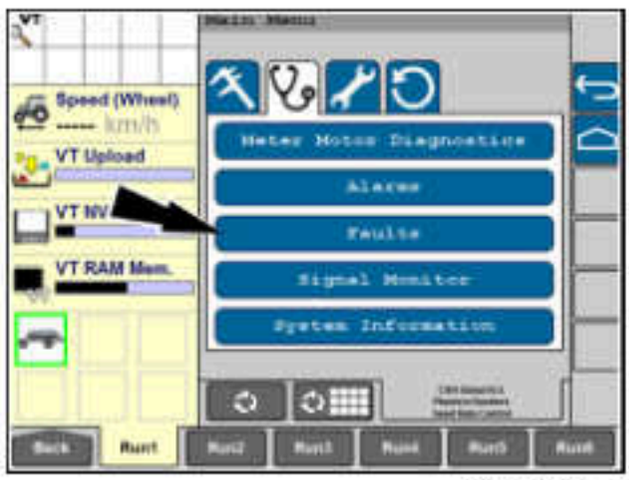

BAIL19SE01062AA 1

2. Select the diagnostics tab .




BAIL19SE00982AA 2

3. Select "Faults".



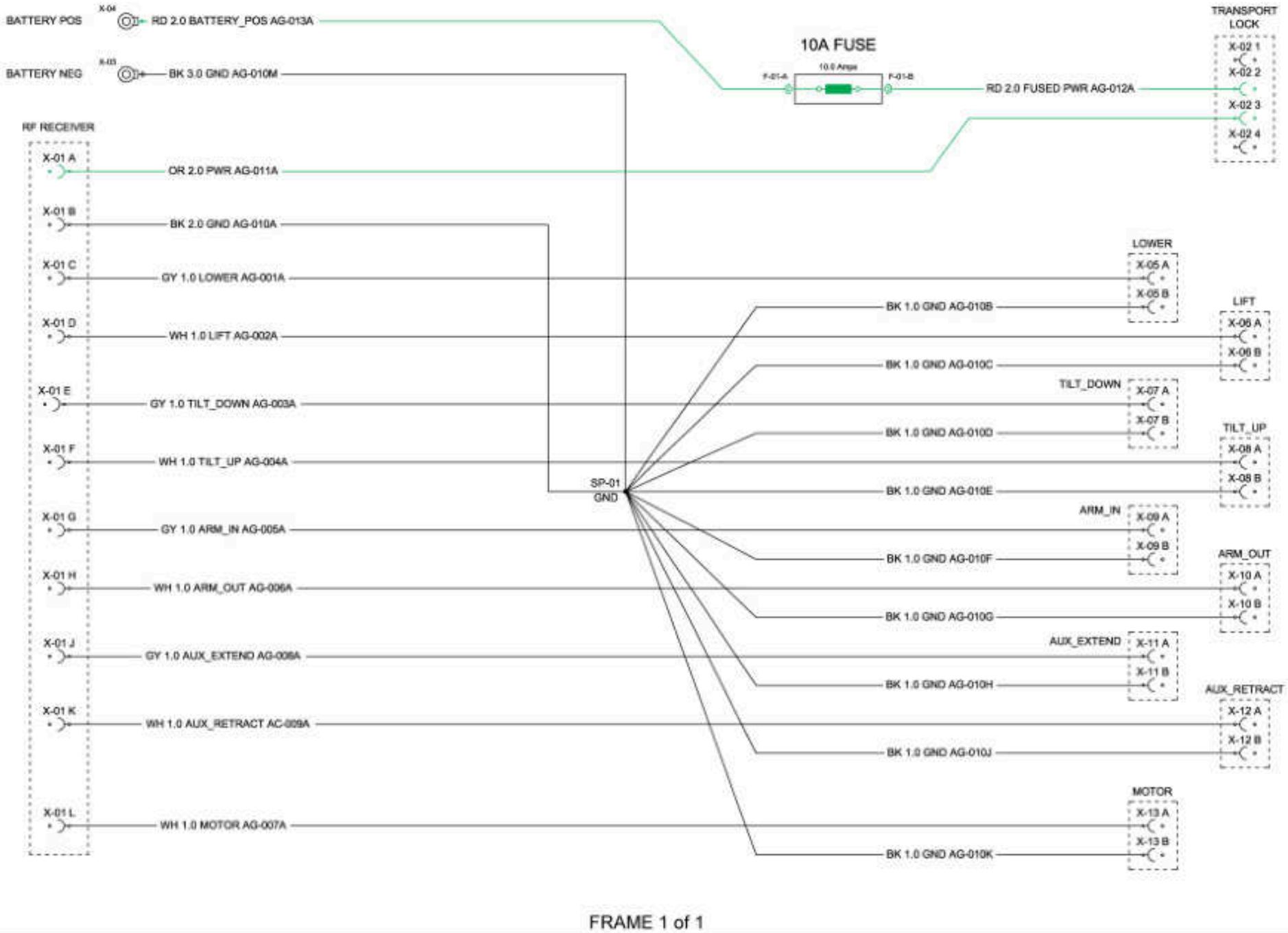

BAIL19SE00982AA 3

4. Faults that have occurred will be displayed. Active faults are faults that have occurred since the power was turned on.
   Inactive faults are faults that have occurred in the past, and are not currently active.



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## AUGER CONTROL




FRAME 1 of 1



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