

RAVEN PRODUCT CONTROLLER RELEASE NOTES:

VERSION 2.32.07

1. Remedied bin chaining issue observed on Air Max machines where bins that are OFF in the chain would report additional rate and volume due to encoder ratcheting. Issue is resolved by ignoring rate sensor pulses when control valve type is PWM Close and product is in OFF state or target rate is set to zero.
2. Remedied issues noted with Remote Throttle / Educt function on sprayers when used in conjunction with PWM Preset. Maintains pump running full on after educt is turned OFF.
3. Remedied issues noted with Tiered Boom when setting up Tier 2 output drivers in between multiple section groups for different products.
4. Modified Air Spread configuration to open both butterfly section valves when apron turns OFF.
5. Remedied potential of getting intermittent / inadvertent spike in as applied rate on sprayers using J1939 boom sense.
6. Remedied not applicable NH3 valve feedback alarms on second section group of multi-product setups.

VERSION 2.31.12

1. Improvements made for NH3 AccuFlow HP+:
 - a. Improved transitions from fast valve control to HP pump to provide better control performance through the transition zone.
 - b. NH3 AccuFlow HP+ defaults modified as follows:
 - i. Min PWM was 75, now is 45 for smoother transition when pump turns on.
 - ii. Max PWM was 215, now is 255 for higher potential top end and better performance as tanks start to go empty.
 - iii. Preset PWM was 0, now is 45 so when system starts up from master or section control off condition, the transition is smoother.
 - iv. PWM Smart Control was enabled, now disabled.
2. Corrected issue observed on Spinner applicators where internal boom sense would not allow for switches to be sensed ON when bin level sensor for bin 3 was covered at startup.
3. Corrected NH3 configuration where Product 2 control valve driver was not supporting PWM for granular product type.
4. Modification made to support boom sense/speed node in conjunction with AirSpread retrofit.
5. Changes made to support running the vertical auger on AirSpread retrofit any time the Master Switch is ON.
6. Corrected issue found in v2.30 when used in conjunction with Hagie keypad where 'Manual' indicator would not illuminate or activate.
7. Corrected issue observed on sprayers reconfigured with outer booms folded in. Previously section 9 would provide a master dump valve signal whenever section 9 width was zero; now it also requires section 1 to be non-zero.

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| SCALE | NA | SHEET 2 OF 4 |