


4		3		2		1		
D			REVISIONS					
			LTR.	DESCRIPTION	DATE	APPR.		
	<u>FILE NAME</u>	<u>SIZE</u>						
	ISOProdControl	546,062	A	RELEASED AS REV. LTR. A V1.00	08/23/09	DLF		
	ISOProdControl_II	668,061	B	REVISED PER ECO E16920 VERSION 2.10	01/20/11	DLF		
	ISOProdControl_IISB	715,540	C	REVISED PER ECO E18104 VERSION 2.2.05	08/05/11	DLF		
	ISOProdControl_III	780,617	D	REVISED PER ECO E20218 VERSION 2.3.05	09/07/12	DLF2		
	ISOProdControl_v2.4.14.hex	780,617	E	REVISED PER ECO E21761 VERSION 2.4.14	07/02/13	JRW		
	RavenISOPProductController _P250_v2_50_10.hex	1,054kB	F	REVISED PER ECO E23113 VERSION 2.50.10	04/22/14	EEA2		
	RavenISOPProductController _P250_v3_01_02.hex	1,352,542 bytes	G	REVISED PER ECO E24058 VERSION 3.01.02	11/04/14	DJW2		
C	RavenISOPProductController _P250_v3_0_2_2.hex	1,354,952 bytes	H	Revised per ECO 26563 Version 3.0.2.2	09/24/15	DJW2		
	RavenISOPProductController _P250_v3_0_3_2.hex	1,355,470 bytes	J	Revised per ECO 27385 Version 3.0.3.2	02/15/16	CRS		
	RavenISOPProductController _P250_v3_0_4_6.hex	1,358,995 bytes	K	Revised per ECO 28389 Version 3.0.4.6	08/23/16	DJW2		
B								
A	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ONE PLACE DECIMALS ±.06 TWO PLACE DECIMALS ±.03 THREE PLACE DECIMALS ±.010 FRACTIONS ± 1/16 ANGLES ± 0°-30° BREAK EDGES .005-.015		NOTICE: THIS DRAWING AND THE INFORMATION PROVIDED ARE PROPERTY OF RAVEN INDUSTRIES INC., AND MAY ONLY BE USED AS AUTHORIZED BY RAVEN INDUSTRIES INC. ALL RIGHTS RESERVED UNDER THE COPYRIGHT LAWS.		 INDUSTRIES, INC SIOUX FALLS, SOUTH DAKOTA		A	
	MATERIAL				TITLE SOFTWARE SPECIFICATIONS, PROGRAM, PRODUCT CONTROLLER, ISO CAN ECU			
	FINISH				CODE IDENT. NO.	SIZE		DRAWING NUMBER
					14979	A		077-0171-250
	DO NOT SCALE DRAWING		DRAWN	RRS	11/4/14	SCALE	NA	SHEET 1 OF 4
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ISO PRODUCT CONTROLLER NODE RELEASE NOTES:

Version 3.0.4.6 (SVN Build 69159)

1. Fixed scaling issues of using ratio rate with injection.
 - a. Note: Rate rate requires software version 1.0.5.3 or greater of Raven ISO Sidekick Pro.
2. Fixed RPM Spinner control issues.
3. Fixed Manual Section Indexing issue of not being able to turn off the last section.
4. Minor fixes and improvements to task controller Device Description Object Pool (DDOP).
5. Meter Cal now has 6 digits for entry.
6. Fixed uploading object pool issue with Russian language.
7. Raven Distributed Software Filtering Criteria
 1. ECU Assembly P/N - 0630173006,0630173586,0630173594
 2. ECU Version - A
 3. Serial Number - None
 4. ID Number - None
 5. Product Family - 3,6
 6. Function Code - 128
 7. Function Instance - 0,1
 8. Mfg. Number - 151
 9. Vehicle System - 5,6
 10. Vehicle System Instance - None
 11. ECU Instance - None
 12. Industry Group - 2

Version 3.0.3.2

1. Corrected issue with NH3 AccuFlow HP+ mode where controller oscillated between boost pump and fast valve when rate presets or VRA prescription maps were being utilized to set target application rate. Direct entry of target rate or rate bump were not previously affected.
2. Improved transitions from fast valve control to HP pump to provide better control performance through the transition zone.
3. Removed fast valve control reversing/braking to reduce fast valve motor heat.
4. NH3 AccuFlow HP+ defaults modified as follows:
 - a. Min PWM was 75, now is 45 for smoother transition when pump turns on.
 - b. Max PWM was 215, now is 255 for higher potential top end and better performance as tanks start to go empty.
 - c. Preset PWM was 0, now is 45 so when system starts up from master or section control off condition, the transition is smoother.

Version 3.0.2.2

5. Added support for Granular 2 (Air Cart Section Control)
6. Self-Test speed does not clear unless there is a detected speed that is greater than 0.5 MPH
7. Section Override button now requires the Master Switch to be on
8. Tank Fill Monitor SPNs have been updated. Tank Fill Monitor software older than version 1.1.3.1 will not work with this release or newer.

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Version 3.01.02

1. Added NH3 mode of HP+, which automatically controls to a specified target rate
2. Added NH3 mode of Accuflow, which is used when there is no pump on the system
3. Added pump RPM to NH3 mode
4. Added Russian to the list of supported languages
5. Adjusted base units and changed communication parameters for the tank fill monitor

Version 2.50.10

1. Implement Switch option added to Sprayer Mode
2. Added Speed Cal input for use with ISO Switchbox
3. Resolved conflict with speed source selection
4. Added ability to run the Product Controller in English while VT is running in Portuguese
5. HP Pressure Control fix
6. Fix to clear Zero Speed Alarm

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Version 2.4.14

1. Added support for up to 16 sections and switch mapping for Raven ISO Switchbox.
2. Added support for Raven ISO 6 section Switchbox.
3. Added support for J1939 on CAN channel 2.
4. Added support for wireless remote.
5. Added support for tiered booms.
6. New features include dual loop control, PWM smart control, low limit pressure control, standby pressure, pump RPM display, PWM high side drive output, and Rate 1/Rate 2 softkey option.
7. Added interface for production testing.
8. Spreader constant value is cleared when changing control type to liquid.
9. Fixed bug to no longer send a NACK to a global PGN request that is not supported.
10. Tank volume is no longer settable by the TC.
11. Fixed conflict between Raven Service tool and Raven ISO Switchbox when attempting to program.
12. Staggered turning on/off boom sections.
13. Removed superscript from TC labels.

Version 2.3.05

1. Added field updatable capability via ISO Implement Bus.
2. Added Self Test.
3. Added interface for ISO Injection ECUs.
4. Added button for Section Control override.
5. Fixed alarms to put up alarm mask when other devices may have control of the active display.

Version 2.2.05

1. Added support for Raven ISO Switchbox.
2. Added Valve Advance.
3. Fixed Task Controller communication issue with intermittent as-applied coverage.
4. Fixed compatibility issue with multiple VTs on 2011 and newer JD tractors.

Version 2.10

1. ADDED TASK CONTROLLER CLIENT SOFTWARE TO ALLOW DATA LOGGING AND VARIABLE RATE CONTROL.
2. ADDED SECTION CONTROL CAPABILITY.
3. ADDED NH3 CONTROL OPTION WITH HP PUMP CONTROL.

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