

REVISIONS					
REV.	ECO	DESCRIPTION	VERSION	APPROVAL	DATE
C	29637	REVISED PER ECO	2.2.2.16	JDG3	05/24/17
D	30840	REVISED PER ECO	2.3.0.31	JDG3	01/29/18
E	32563	REVISED PER ECO	2.4.0.44	J GRABOW	01/07/19
F	33111	REVISED PER ECO	2.4.0.79	J GRABOW	04/24/19

RELEASE NOTES:

VERSION:	2.4.0.79	FILE NAME: ISOProductControllerII_P388V2_4_0_79.hex
		SIZE: 2,135,001 BYTES

Release Notes:
Git:
https://source.raven.engineering/atd/embedded/Hawkeye/hawkeye_main_ecu/commit/5037c6308a900c44cad7c659207b62d81f95f22
MD5: 979c948d8260d8b59960542857a554d5
1.Added Support for Latin America Region boom profiles.
2.Added new Portuguese translations.
3.Improved the tank fill speed filtering.
4.Fixed issue where the screen would glitch on a reset defaults.
5.Raven Distributed Software Filtering Criteria
1.ECU Assembly P/N-0630173799,0630173806
2.ECU Version-None
3.Serial Number-None
4.ID Number-None
5.Product Family-None
6.Function Code-None
7.Function Instance-None
8.Mfg. Number-151
9.Vehicle System-None
10.Vehicle System Instance-None
11.ECU Instance-None
12.Industry Group-None

NOTES:			TITLE:		
			RAVEN		
			SOFTWARE SPECIFICATION, PROGRAM, ISO PRODUCT CONTROLLER II, ECU, CNH		
			RAVEN INDUSTRIES, INC. SIOUX FALLS, SD 57104		
	NAME	DATE	SIZE	DRAWING NUMBER	REV
DRAWN	RRS	06/13/16	A	077-0171-388	F
APPROVED	JDG3	06/13/16			
PROPRIETARY AND CONFIDENTIAL INFORMATION OF RAVEN INDUSTRIES INC.			CODE		
THIS DRAWING AND THE INFORMATION HEREON ARE RAVEN INDUSTRIES INC. PROPERTY AND MAY BE USED BY OTHERS ONLY AS AUTHORIZED IN WRITING BY RAVEN INDUSTRIES INC. - ALL RIGHTS RESERVED UNDER THE COPYRIGHT LAWS.			SCALE		
			SHEET		
			14979		
			N/A		
			1 OF 5		

RELEASE NOTES:

VERSION:	2.4.0.44	FILE NAME: ISOPProductControllerII_P388V2_4_0_44.hex
		SIZE: 2,127,669 BYTES

VERSION 2.4.0.44 (Git Commit f86c240)

1. Added support for Wireless remote control for diagnostics and individual nozzle control with wireless remote.

2. Added ability to group the on/off functionality of the 3 end nozzles together.

3. Enhanced the Nozzle Offline alarm to clear after a NCV reconnects.

4. Created an enhanced diagnostics screen showing switched input states of the NCVs.

5. Added display for nozzle offline count on NCV Summary page.

6. Added ability to override individual Nozzles off.

7. Added ability to enter a decimal point in for nozzle spacing and section widths

8. Raven Distributed Software Filtering Criteria

1. ECU Assembly P/N - 0630173799,0630173806

2. ECU Version - None

3. Serial Number - None

4. ID Number - None

5. Product Family - None

6. Function Code - None

7. Function Instance - None

8. Mfg. Number - None

9. Vehicle System - None

10. Vehicle System Instance - None

11. ECU Instance - None

12. Industry Group - None

SIZE	DRAWING NUMBER		REV
A	077-0171-388		F
CODE		SCALE	SHEET
14979		N/A	2 OF 5

RELEASE NOTES:

VERSION:	2.3.0.31	FILE NAME: ISOProductControllerII_P388V2_3_0_31.hex
		SIZE: 2,052,499 BYTES

VERSION 2.3.0.31 (SVN Build 77648)

1. Added optional NCV performance statistics on the main run screen (high/low/average duty cycle)

2. Added an additional NCV diagnostics screen available during calibration and after calibration

3. Added Stuck Poppet alarm

4. Added CNH exclusive feature set to "Custom" boom types

5. Added a calibration summary table in the Equipment Settings tab

6. Changed default critical shutdown pressure from 2 PSI to 6 PSI

7. Added Miller as a manufacturer in the calibration wizard

8. Added 3 and 13 nozzle Case IH Demo Stand profiles

9. Improved non-volatile memory verification at startup

10. Added support for multiple service tools connected on the ISO bus at the same time

11. Improved communication with task controller and virtual terminal

12. Fixed issue where simulated flow could cause an ECU reset

13. Fixed issue where tank volume doesn't save if power is cycled after a fill but before applying product

14. Fixed issue where tank volume decrements immediately when turning on product application

15. Fixed issue where scrolling through DTC list would not stop at the end of the list

16. Fixed issue where the incorrect screen would populate after swapping the object pool to a different VT during calibration wizard

17. Raven Distributed Software Filtering Criteria

13. ECU Assembly P/N - 0630173799,0630173806

14. ECU Version - None

15. Serial Number - None

16. ID Number - None

17. Product Family - None

18. Function Code - None

19. Function Instance - None

20. Mfg. Number - None

21. Vehicle System - None

22. Vehicle System Instance - None

23. ECU Instance - None

24. Industry Group - None

SIZE	DRAWING NUMBER		REV
A	077-0171-388		F
CODE		SCALE	SHEET
14979		N/A	3 OF 5

RELEASE NOTES:

VERSION:	2.2.2.16	FILE NAME:	ISOProductControllerII_P388V2_2_2_16.hex
		SIZE:	1,901,633 BYTES

VERSION 2.2.2.16 (SVN Build 73677)

1. Improved NCV power up and power down routines

2. Improved indexing reliability

3. Improved ECU/NCV communication to reduce NB Not Ready alarms

4. Fixed slow NCV duty cycle ramp rate

5. Fixed bug where certain user settings reset to default after calibrating NCVs

6. Fixed bug where onscreen section switches would not initialize properly

7. Fixed bug where flow meter pulse counter increments upward when master switch is off resulting in a tank volume jump once the master switch is turned on

8. Fixed bug where NCV serial numbers over 65535 would not display properly in the NCV diagnostics

9. Fixed bug where NCV duty cycle would not be 100% if you were in manual mode when converting to On/Off mode

10. Fixed bug where DTCs did not move to the inactive list while viewing the DTC page

11. Raven Distributed Software Filtering Criteria

1. ECU Assembly P/N - 0630173799,0630173806

2. ECU Version - None

3. Serial Number - None

4. ID Number - None

5. Product Family - None

6. Function Code - None

7. Function Instance - None

8. Mfg. Number - 151

9. Vehicle System - None

10. Vehicle System Instance - None

11. ECU Instance - None

12. Industry Group - None

SIZE	DRAWING NUMBER		REV
A	077-0171-388		F
CODE		SCALE	SHEET
14979		N/A	4 OF 5

RELEASE NOTES:

VERSION:	2.1.0.75	FILE NAME: ISOProductControllerII_P388V2_1_0_75.hex
		SIZE: 1,875,689 BYTES

VERSION 2.1.0.75 (SVN Build 69025)

1. Fixed issue with boom valves not opening properly in Bypass mode.

2. Added a Logic Power Error.

3. Fixed issue with select nozzle alarms not displaying properly.

4. Added support for maximum tank fill PWM %.

5. Added support for a Calibrate NCVs calibration mode.

6. Fixed issue where unchecking the low tank alarm enabled did not disable the alarm.

7. Added in default gains per operation mode.

8. Disabled Nozzle Control Mode drop down while in a job.

9. Added in language translations for new display items. New languages included French (Canadian), Russian, Portuguese (Latin America) and Spanish.

10. Fixed issue where the left nozzle count was always correct in systems with 90+ NCVs.

11. Changed the default minimum pressure from 15 to 20 PSI.

12. Raven Distributed Software Filtering Criteria

1. ECU Assembly P/N - 0630173799,0630173806

2. ECU Version - None

3. Serial Number - None

4. ID Number - None

5. Product Family - None

6. Function Code - None

7. Function Instance - None

8. Mfg. Number - 151

9. Vehicle System - None

10. Vehicle System Instance - None

11. ECU Instance - None

12. Industry Group - None

SIZE	DRAWING NUMBER		REV
A	077-0171-388		F
CODE		SCALE	SHEET
14979		N/A	5 OF 5