

4		3		2		1	
D	<div>FILE NAME</div> <div>P472V1_0_0_1_42084E2B.hex</div> <div>P472V1_1_0_16_E4569AA1.hex</div> <div>P472V1_2_0_9_55E8EF4D.hex</div> <div>SIZE</div> <div>3,106,352 bytes</div> <div>3,529,826 bytes</div> <div>3,643,331 bytes</div>		REVISIONS				
			LTR.	DESCRIPTION	DATE	APPR.	D
			A	Released per ECO28846 Version 1.0.0.1	12/05/16	JRW	
			B	Revised per ECO29905 Version 1.1.0.16	07/21/17	JRW	
C		C	Revised per ECO30568 Version 1.2.0.9	12/12/17	JRW		
B							B
A	UNLESS OTHERWISE SPECIFIED		<div>RAVEN</div>		INDUSTRIES, INC		A
	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				SIOUX FALLS, SOUTH DAKOTA		
	MATERIAL				TITLE		
	FINISH				SOFTWARE SPECIFICATIONS, PROGRAM, HAGIE RATE CONTROL MODULE		
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	DO NOT SCALE DRAWING		DRAWN	RRS	12/5/16	SCALE	
4		3		2		1	

## HAGIE RCM ECU RELEASE NOTES:

### Version 1.2.0.9 (SVN Build 77000)

1. Added support for ISOBUS Auxiliary display for catch test and scale functions.
2. Added AccuFlow Dual Valve control option for NH3 HP+ systems.
3. Added support for run blockage monitoring integration.
4. Added resume last test speed button.
5. Disable unexpected rate alarm for granular modes when pulses per revolution are over 180.
6. Allow for up to 6 control channels when paired with CNH Pro700/IntelliView displays.
7. Changed default PWM frequency for air carts and generic to 65Hz.
8. Updated default Display Setup selections and now allow unused product tabs on main run screen to be configurable as Display Setup selections.
9. Added spreader constant decimal place to accommodate high-rate spreaders with very low spreader constants.
10. Added support for gate height entry for spreader machine types.
11. Added 2 RPM control products for spreader machine types.
12. Spinner control products for a spreader machine type will now stop controlling to the target rate when all sections are turned off and will hold the current duty cycle.
13. Fixed issue of Task Controller Commanded Prescription state being set to Auto when the Task Controller commands it to manual.
14. Updated as applied test with scales to record lowest scale weight only when the implement has been idle for 10 seconds or more. Also disable as applied stop buttons when above minimum application speed.
15. Updated Dual Encoder Error alarm so it will not trigger during a PWM calibration test.
16. Enhancements to CAN initialization at startup.

### Version 1.1.0.16 (SVN Build 74252)

1. Added a new application mode 'Dual Control Valve' to support control of dual PWM control valves.
2. Added support for scale readings.
3. Added software activation support.
4. Added support for ground drive systems by selecting control valve type 'None'.
5. Added the ability to assign an ECU number for systems that have multiple RCM ECU's.
6. Added support for a flowmeter low limit setting.
7. Added Dutch language support.
8. Improved Task Controller compatibility.
9. Enhanced reporting of the actual rates to the Task Controller.
10. Enhanced rules for clearing self-test speed entry.
11. Fixed issue of incorrectly scaling the speed value from the machine selected speed message navigation-based speed source.
12. Fixed scaling of injection display values when metric is selected.

### Version 1.0.0.1 (SVN Build 71060)

1. INITIAL RELEASE

CODE IDENT. NO.		SIZE	DRAWING NUMBER
14979		A	077-0171-472
SCALE	NA		SHEET 2 OF 2