Axial-Flow® 5088
Axial-Flow® 6088
Axial-Flow® 7088
Combines

Operator's Manual

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COMBINE OPERATION

Ground Travel Speed

Power is transferred from the engine to the three speed transmission by the hydrostatic drive unit. Different grounds speeds are available in each transmission gear range. The ground travel speeds are shown under "Approximate Travel Speeds," See Travel Speed Chart in Specifications Section of this manual. Press the ground speed key (1) and use the digital tachometer to check the ground travel speed (2).

The correct ground speed is important. A ground speed which is too fast will cause an overload condition. A ground speed which is too slow will not give efficient operation. A ground speed that is too fast over rough terrain will cause early wear and possible damage to the Combine.

NOTE: *The hydrostatic pump on the Combine is equipped with a pressure override valve. This valve is to prevent an overload of the hydrostatic system. The valve is part of the pump assembly and is not adjustable. During normal operation the pressure override valve will cause the Combine to slow down or stop completely according to conditions. When this occurs put the propulsion control lever in the NEUTRAL position, shift the transmission to a lower gear and continue operation.*



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WARNING: *Travel speed should be such that complete control and machine stability is maintained at all times. Where possible, avoid operating near ditches, embankments and holes. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.* M109B

High Idle Speed

At normal operating temperature engine high idle is 2410 RPM on the engine tachometer (3).

High Idle with separator engaged - 2410 RPM.

High Idle with separator disengaged:

5088 and 6088 - 2250 RPM in first and second gear. In third gear or road mode, RPM may be limited further to comply with country specific ground speed limits.

7088 - 2100 RPM in first and second gear. In third gear or road mode, RPM may be limited further to comply with country specific ground speed limits.

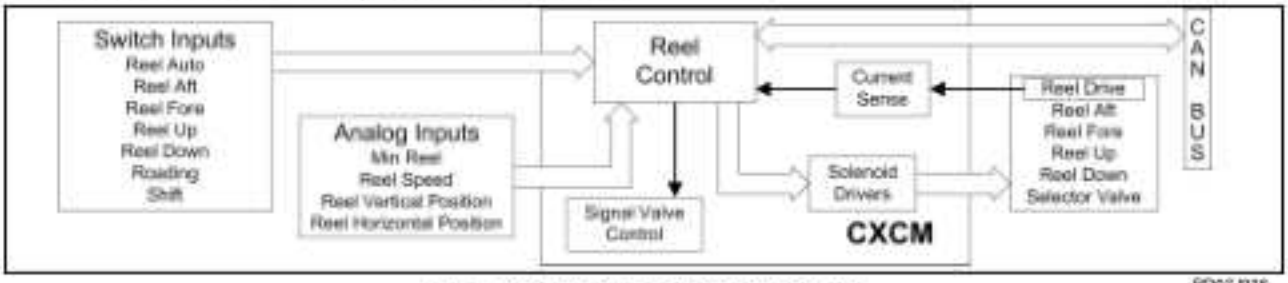
If the engine RPM falls below the engine alarm threshold set point and the Feeder or Rotor or Fan are ON, the audible chime alarm will sound and the ENGINE SPEED will flash. If the FEEDER ENABLE switch is OFF the Engine Speed Alarm function is disabled.

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REEL CONTROL OPERATION

General Operation

The CXCM receives commands from the operator through the controls on the right hand console (RHC), propulsion handle and the A-Post. Information from the A-Post are transmitted on the CAN bus to CXCM. The CXCM analyzes these commands and signals to control raising and lowering, moving forward and backward the position of the reel and controlling the speed of the reel.



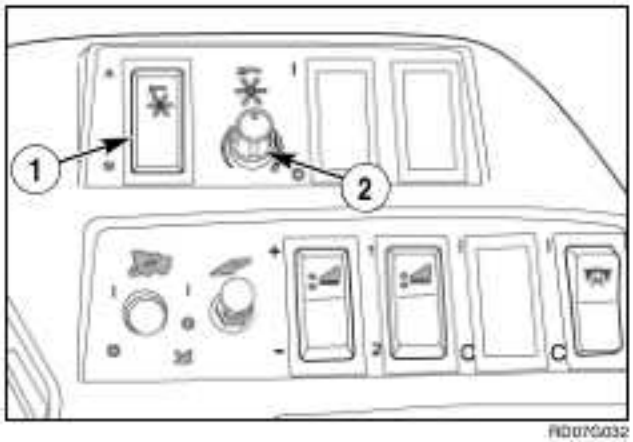
REEL CONTROL BLOCK DIAGRAM

Reel Drive Control

Reel drive control is only available if the ROADING switch is OFF and the feeder is engaged.

Manual

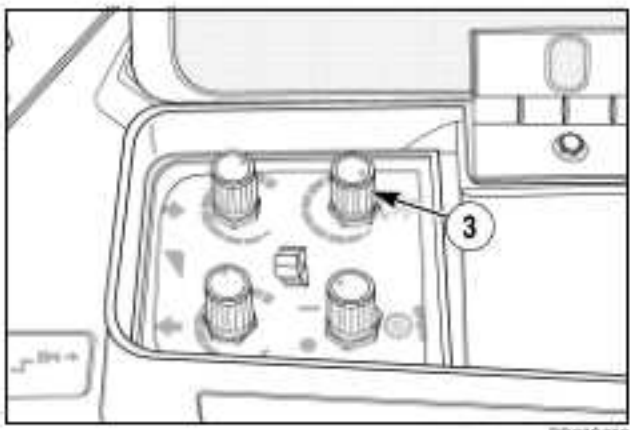
If the REEL AUTO switch (1) is OFF, the REEL SPEED control (2) sets the speed of the reel. Turn the control clockwise to increase the speed. Turn the control counter clockwise to decrease the speed. If the control is fully counter clockwise, reel speed will be OFF.



Auto

If the REEL AUTO switch is ON, the reel speed follows the ground speed. The REEL SPEED control (2) adjusts the offset speed of the reel relative to ground speed. Turn the control clockwise to increase the offset up to 4 mph (6.5 km/h) greater than ground speed. Turn the control counter clockwise to decrease the offset down to 1.6 mph (2.5 km/h) less than ground speed.

The MIN REEL SPEED control (3) is used to set the minimum reel speed the reel will turn. Turn the control clockwise to increase the speed up to 6.2 mph (10 km/h). Turn the control counter clockwise to decrease the speed down to "0". If the control is fully counter clockwise, the reel speed will be OFF.



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FUEL SYSTEM

The fuel system on the Combine has a 690 liter (180 U.S. Gallon) fuel tank, water separator filter, fuel filters and fuel injection parts. To prevent dirt and water from reaching the injection parts, which will cause damage and decrease performance, use clean fuel, drain the water separator filter at regular intervals and service the fuel filters.

FOR THE PROTECTION OF YOUR FUEL SYSTEM, GET CLEAN FUEL AND KEEP THE FUEL CLEAN.

Diesel Fuel Specifications

Use a Number 2 Diesel fuel in your engine. Do not use other types or grades of fuel. The use of other fuels will result in loss of engine power and high fuel consumption.

NOTE: *When the temperature is very cold, the use of a mixture of Number 1 and Number 2 Diesel fuel is permitted for a short period of time. See your fuel dealer for winter fuel requirements in your area.*

Fuel Conditioner

Diesel Fuel Conditioner is available from your dealer. Instructions for the use of the fuel conditioner are on the container.

The use of Diesel Fuel Conditioner will:

1. Clean fuel injectors, valves and manifolds for increased service life.
2. Disperse insoluble gummy deposits that can form in the fuel system.
3. Separate moisture from the fuel.
4. Stabilize fuel in storage.

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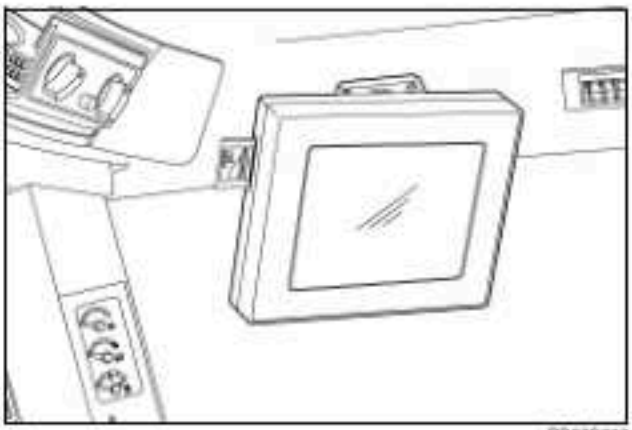
AUTOMATIC CROP SETTINGS (ACS) (If Equipped)

Automatic Crop Setting is controlled through the AFS Pro 600. The AFS Pro 600 commands the A post and CXCM controller how to set the Combine's:

- Cleaning Fan Speed
- Rotor Speed
- Concave Position
- Upper Sieve Opening
- Lower Sieve opening

The Combine must have the in cab sieve adjustment option.

When making settings, the machine must be running and the separator must be ON.



RD07G027

STEP 1

ACS must be enabled the first time it is used. There is no ACS selection icon on the main menu. Navigate to the ACS enable screen - Main/Combine Setup/ Combine/ACS Enable.

NOTE: *ACS disable is the default setting from the factory. This is to prevent error messages from being generated if the ACS option is not installed.*

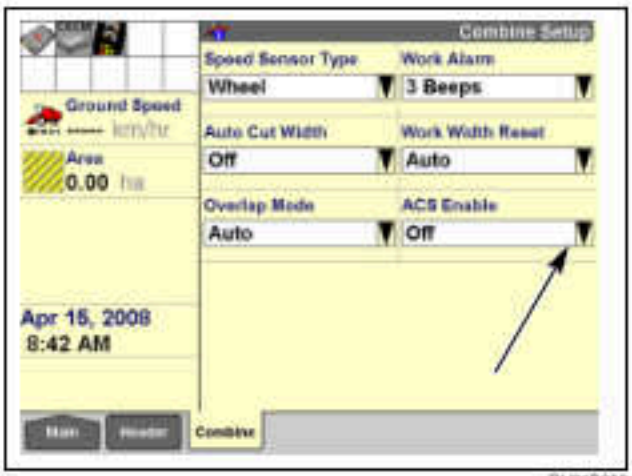
NOTE: *Machine settings are not available if ACS is not enabled.*



RH08D299

STEP 2

Click on the ACS Enable icon to open the selection icon.



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Tire Selection Chart for 5088, 6088, and 7088 (NPGA and PGA)

Recommended
Allowed
Not Allowed

DRIVE TIRES *1	Tire Width mm	Tire Width (in.)	LH Wheel Dished In mm	LH Wheel Dished In (in.)	LH Wheel Dished Out mm	LH Wheel Dished Out (in.)	RH Wheel Dished In mm	RH Wheel Dished In (in.)	RH Wheel Dished Out mm	RH Wheel Dished Out (in.)	Axle Extension LH mm	Axle Extension LH (in.)	Axle Extension RH mm	Axle Extension RH (in.)	Wheel Spacer *2 RH mm	Wheel Spacer *2 RH (in.)	Tread Width Center/Center mm	Tread Width Center/Center (in.)		Overall Width mm	Overall Width (in.)
650/75R32 R1W	633	(24.9)	94	(3.7)			94	(3.7)					70	(2.8)	51	(2.0)	2622	(103.2)	*5	3255	(128.1)
800/65R32 R1W	788	(31.0)	85	(3.3)					101	(4.0)							2705	(106.5)	*6	3493	(137.5)
					101	(4.0)			101	(4.0)							2890	(113.8)		3678	(144.8)
900/60-R32 R1W	896	(35.3)	85	(3.3)					101	(4.0)	70	(2.8)	70	(2.8)			2845	(112.0)	*6	3741	(147.3)
					101	(4.0)			101	(4.0)	70	(2.8)	70	(2.8)			3031	(119.3)		3927	(154.6)

STEERING TIRES *1	Tire Width mm	Tire Width (in.)	Axle Type	Wheel Dished In mm	Wheel Dished In (in.)	Wheel Dished Out mm	Wheel Dished Out (in.)	Axle Width Position LH	Axle Width Position RH	Height Position	Stop Bolt Length *3 mm	Stop Bolt Length (in.)	Tie Rod 87694593 Required	Turn Radius *4 m	Turn Radius *4 (ft)	Tread Width Center/Center mm	Tread Width Center/Center (in.)		Overall Width mm	Overall Width (in.)
460/70R24 R4	484	(19.1)	NPGA			10	(0.4)	1	2	B	72	(2.8)	X	7.6	(24.9)	2673	(105.2)	*7	3240	(127.6)
			NPGA			10	(0.4)	2	3	B	33	(1.3)		5.1	(16.8)	2825	(111.2)	*7	3392	(133.6)
			NPGA			10	(0.4)	3	3	B	15	(0.6)		4.3	(14.2)	2901	(114.2)		3469	(136.6)
			NPGA			10	(0.4)	4	4	B	15	(0.6)		4.4	(14.5)	3054	(120.2)		3621	(142.6)
			NPGA			10	(0.4)	3	4	B	15	(0.6)		4.4	(14.3)	2977	(117.2)	*7	3545	(139.6)
			NPGA			10	(0.4)	2	2	B	33	(1.3)		5.1	(16.7)	2749	(108.2)		3316	(130.6)
			NPGA			10	(0.4)	5	5	B	15	(0.6)		4.5	(14.7)	3206	(126.2)		3773	(148.6)
			NPGA			10	(0.4)	6	6	B	15	(0.6)		4.6	(15.0)	3358	(132.2)		3926	(154.6)
480/70R30 R1W	499	(19.6)	NPGA			50	(2.0)	1	2	A	91	(3.6)		9.4	(31.0)	2746	(108.1)	*7	3343	(131.6)
			NPGA			50	(2.0)	3	3	A	33	(1.3)		5.2	(17.0)	2974	(117.1)		3572	(140.6)
			NPGA			50	(2.0)	3	4	A	33	(1.3)		5.2	(17.1)	3050	(120.1)	*7	3648	(143.6)
			NPGA			50	(2.0)	4	4	A	23	(0.9)		4.8	(15.6)	3127	(123.1)		3724	(146.6)
			NPGA			50	(2.0)	5	5	A	15	(0.6)		4.5	(14.8)	3279	(129.1)		3877	(152.6)
			PGA	37	(1.4)			1	1	A	80	(3.1)		9.0	(29.7)	2801	(110.3)		3399	(133.8)
			PGA			50	(2.0)	1	1	A	56	(2.2)		7.1	(23.3)	2974	(117.1)		3572	(140.6)
			PGA			50	(2.0)	1	2	A	56	(2.2)		7.1	(23.4)	3050	(120.1)	*7	3648	(143.6)
			PGA			50	(2.0)	2	2	A	27	(1.1)		5.7	(18.6)	3127	(123.1)		3724	(146.6)
			PGA			50	(2.0)	3	3	A	13	(0.5)		5.2	(17.0)	3279	(129.1)		3877	(152.6)
600/65R28 R1W	616	(24.3)	NPGA			65	(2.6)	4	4	A	44	(1.7)		5.8	(19.1)	3156	(124.2)		3873	(152.5)
			PGA	54	(2.1)			3	3	A	56	(2.2)		7.2	(23.8)	3070	(120.9)		3793	(149.3)

5	4	3	2	1