

NEW HOLLAND
82C and 83C
CA20

SERVICE MANUAL

NEW HOLLAND AGRICULTURE

PARTS

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CONDITION/PROBABLE CAUSE	CORRECTION
Condition 11 Cutting Edible Beans	
K. Excessive guard breakage	**K. Correct as follows:**
1. Header float too heavy	1. Adjust float to make Header lighter.
2. Excessive amount of rocks in field	2. Try using stub guards if using regular guards.
	Experiment with a few guards on a section of cutter bar to compare the performance of the two different styles of guards.

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Checking Piston Pump (Knife Drive) Flow and Compensator Pressure

The piston (knife drive) pump on CA20 Combine Adapter has variable displacement of 1.8 to 2.7 Cubic inch. This allows the output flow of the pump to be adjusted in order to achieve the appropriate knife speed for a specific Combine model.

The piston pump on the CA20 Combine Adapter also has an internal adjustable pressure compensator valve which is set at 3000 psi.

Checking Flow & Pressure Compensation

1. Plumb in the test equipment into the pressure line to the knife drive motor at the quick couplers. This is the line on the Header with the 3/4 inch female flat coupler.

2. Connect the input line of the test equipment to the pressure line coming from the adapter (3/4 inch male flat coupler marked with Orange tag) and connect the output line of the test equipment to the 3/4 inch female flat coupler on the Header.

ATTENTION: *Before starting the Combine, be sure that the needle valve on the test equipment is all the way open.*

3. Run Combine at low idle. Engage separator and feeder housing. Increase engine RPM to maximum, the flow meter should read between 15 to 20 GPM depending on Combine model (feeder housing jackshaft speed).

NOTE: *A jackshaft speed of 580 RPM is desired for variable speed feeder housings, some fixed speed feeder housing Combines may run slower or faster than recommended speed. Do not exceed maximum knife speed listed on the chart in Step 4.*

4. The RPM of the wobble box pulley varies with combine make and model. Use the following table to determine the appropriate range.

If the output flow or compensating pressure should need to be adjusted the following procedures should be followed.

NOTE: *May have quick couplers.*

Wobble Box Pulley Speed

Header Size	Knife Drive	
	Single Knife	
	Manufacturer Setting	Recommended Setting
20 and 25 Foot	600	550 to 675
30 Foot	600	550 to 650
35 Foot	600	550 to 650
40 Foot	600	525 to 650
45 Foot	--	--

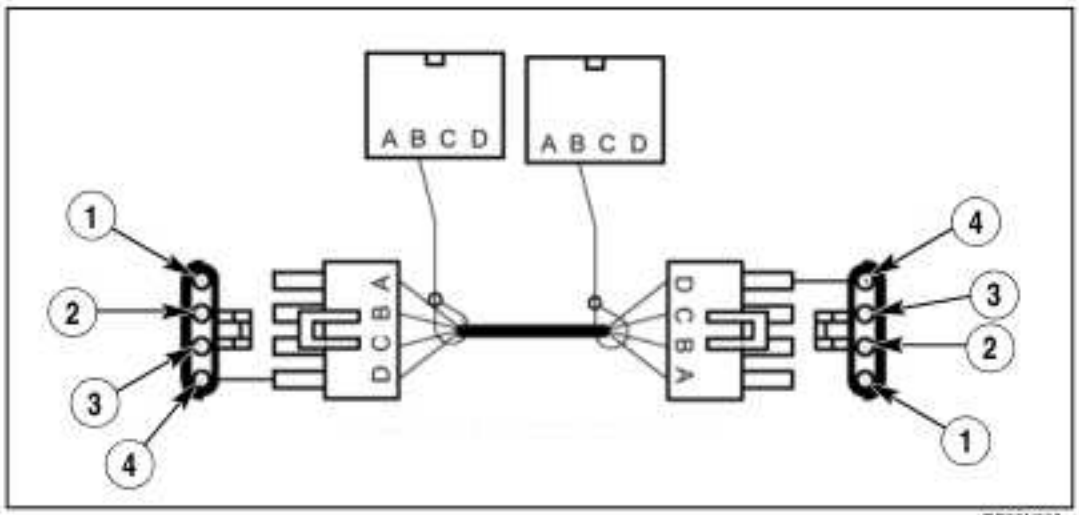
Header Size	Knife Drive	
	Double Knife	
	Manufacturer Setting	Recommended Setting
20 and 25 Foot	690	600 to 850
30 Foot	690	600 to 750
35 Foot	690	550 to 750
40 Foot	690	550 to 700
45 Foot	690	550 to 700

NOTE: *For **Single Knife** - speed can be measured at wobble box pulley or at driven pulley. For **Double Knife** - speed must be measured at wobble box pulley.*

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Standard wiring harness that is attached to the hitch. This harness connects the Header wiring harness to the hitch adapter.



RR06M005

CIRCUIT	GAUGE	COLOR	SERVICE
1	16	White	Ground
2	16	Yellow	Left Turn
3	16	Green	Right Turn
4	16	Brown	Tail Lamp

TRANSPORT HITCH - HEADER END

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