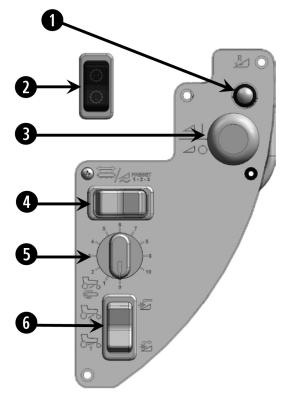
	ONG		ENANCE INTERVALO						
7.0		OING MAINTI	ENANCE INTERVALS	4	FLUIDS AND LUBRICANTS				
TIME		SERVICE  1. Check Tire Inflation.		FLUID	) VO	)L	SPEC		RIPTION /
	urs or illy	<ol> <li>Check Engine</li> <li>Check Engine</li> </ol>	Oil Level. Coolant Level At Reserve Tank. r, Hydraulic Oil Cooler, Charge Air Cooler, enser. ic Oil Level.	Fuel: Diese No.2	97	US ons	ASTM D-975 Grade S15	Sulphu 0.5 Water a (by vol)	r (by weight) 5% max. and Sediment 0.05% max. by 520 HFRR
50 Hours		<ol> <li>Fill Fuel Tank.</li> <li>Check Hydraulic Hoses and Lines For Leaks.</li> <li>Grease Caster Pivots.</li> <li>Grease Walking Beam Center and Top Lift Link Pivots.</li> <li>Grease Forked Caster Spindle Bearings.</li> </ol>		Fuel: Diesel No.1 ar No. 2 M	I Gall	ons	n/a	0.5% p Water a (by weig	r (by weight) oref. 1% max. and Sediment ht) 0.1% max. y 460 HFRR
100 Hours or Annually		<ol> <li>Clean Cab Fresh Air Intake Filter.</li> <li>Check Gear Box Oil Level.</li> <li>Clean Cab Air Return Filter.</li> </ol>		Coolar	6.6 at Gall (25	ons	ASTM D-4985	Ethylene Glycol with SCA, mixed equally with high quality deionized, distilled,	
			55 Operator's Manual for 000 Hour and Annual Maintenance.	<u> </u>	(20			demineralized water Rated to -30°F (-34°C)	
	BREAK-IN INSPECTIONS							High Temperature	
Every 0.25 Road or 1	Every 0.25 Road Drive Wheel Nuts		Torque: 220 ft-lbf (300 N·m). Repeat checks until torque stabilizes.	Grease	e N	А	SAE Multi- Purpose	Extreme Pressure EP2. Max 1% molybdenum disulphide, Lithium base. Use as required unless otherwise noted	
Field	A/C Bel	t Wheel Nuts	Tension. Torque: 120 ft·lbf (163 N·m).	Engine Oil	e 13.7 Qua	arts	SAE 15W40 for API Class SJ and CH-4	Engine	e Crankcase
5	Caster Wheel Anti-Shimmy Dampener Bolts Walking Beam Width		Inboard Bolt Torque: 100 ft·lbf (135 N·m). Outboard Bolt Torque: 85 ft·lbf (115 N·m).  Torque: 330 ft·lbf (448 N·m).	Hydraul Oil	l (-alinne		SAE 15W40 for API Class SJ and CH-4	Windrower Drive and Header Drive	
	Walking	ent Bolts  Beam Width ent Bolts	Torque: 330 ft·lbf (448 N·m).	Gear Bo	Qua	US arts	SAE 75W-90 API Service Class GL-5.	Engine Gearbox	
10	Drive Wheel Nuts		Torque: 220 ft·lbf (300 N·m). Repeat Checks until torque stabilizes, and at 20 and 30 hours.	A/C	(2.1		E Synthetic Trans Lube		
	Neutral		Dealer Adjust.	Refrige	r- (1.63		R134A	Cab A/C System	
50	Hose Clamps: Air Intake, Radiator, Heater, Hydraulic		Hand-tighten unless otherwise noted.	A/C Cor	- X 1 1	. oz	SP-15	Cab A/C Compressor Lubricant	
	Walking Beam Bolts		Torque: 330 ft-lbf (448 Nm).	presso Oil	(240		PAG		
	Caster Wheel Anti- Shimmy Dampener Bolts		Torque Inboard: 100 ft-lbf (135 Nm). Torque Outboard: 85 ft-lbf (115 Nm).						
	Drive Wheel Nuts		Torque: 220 ft-lbf (300 Nm).		TIRE PRESSURES				
	Engine Gearbox Oil		Repeat check until torque stabilizes.	Drive	32 psi (221 kPa) 26 psi (				580 / 70 R26 TURF
	Drive Wheel Oil Lubricant			Tires	18.4 - 26 TURF 23.1 - 26				
	Oil Filte	System& Hydraulic rs (except lift)	Change.	Rear Tires	35 psi (241 kPa) 20 psi (138 kPa) (165 kP All Rear Tire Pressures are 10 psi (69 kPa)			,	
	Manifold Oil Pressure								



- REVERSER To activate, hold down and engage the header (requires optional hydraulics)
- **GROUND SPEED RANGE**
- **HEADER ENGAGE**
- DECK SHIFT / FLOAT PRE-SET
- **DWA DRAPER SPEED** (Optional)
- 6 DWA RAISE / LOWER

### **FLOAT PRESETS**

#### A-Series, R-Series, or D-Series -Without Hydraulic Deck Shift

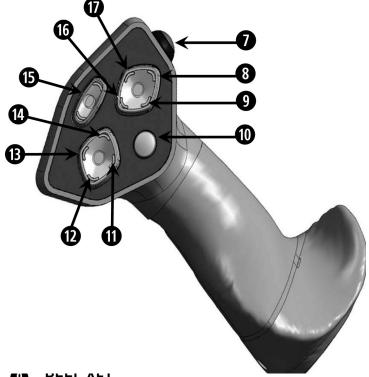
FLOAT PRE-SET / DECK SHIFT switch allows for auto-memory of three different trim cylinder positions. For example:

- #1 Border Width LH 5.0, RH 6.5
- #2 Normal Width LH 5.0, RH 5.0
- #3 Rocky Width LH 6.5, RH 6.5

### **D-Series with Hydraulic Deck Shift**

DECK SHIFT switch activates hydraulic deck shifting when the header is engaged, and allows for automemory of trim cylinder adjustments in each delivery opening position.

Allows for compensation of weight shifts to the float springs.



- **KEEL AFI**
- SCROLLS THE TOP LINE OF DISPLAY
- **HEADER TILT UP** (Retracts center-link)
- **HEADER DOWN**
- **HEADER TILT DOWN** (Extends center-link)
- **HEADER UP**
- REEL (D60/A40) / DISC SPEEDS (R Series)
- **REEL DOWN**
- **REEL FORE**

## NORMAL START - Engine Temp above 60°F (16°C)

- Main battery disconnect switch POWER ON.
- GSL in N-DETENT. HEADER DRIVE switch OFF.
- Seat Belt ON. Set throttle to START position "fully back".
- Sound horn three times.
- Turn ignition key to **RUN** position. Single loud tone sounds. Engine warning lights flash in self-test mode, and CDM displays "HEADER DISENGAGED' and "IN PARK".
- Turn ignition key to **START** position until engine starts. Release key. Allow engine to run at IDLE until temperature reaches 100°F (40°C).
- CDM displays programmed header data for 5 seconds, and then returns to previous display.





## **HEADER INDEX MODE**

Enhanced reel/conveyor speed controls may be desirable in variable crop and terrain conditions.

Allows the reel and conveyor to be driven by reference to ground speed, so that header systems will speed up and slow down as ground speed changes.

# Operation of Header Index for REEL SPEED: (A and D Series)

- 1. With all bystanders clear, start windrower, and engage the header.
- 2. While stationary, with the GSL in PARK, use the REEL SPEED control switch to set a 'Minimum Reel Speed'.
- 3. When operating at grounds speeds faster than the Minimum Reel Speed + Header Index value, REEL SPEED display will change to REEL INDEX. Using the GSL REEL SPEED switch, Header Index can be adjusted.
- Reel speed will be equal to the greater of: 'Ground Speed + Index Value' OR 'Minimum Reel Speed'.

## Operation of Header Index for DRAPER SPEED: (D Series Only)

Follow instructions above, using the CDM AUGER/DRAPER speed control, rather than the GSL REEL SPEED switch.

- 1 PROGRAM Press to enter and exit set-up modes, and for key shortcuts.
- **2 ENGINE WARNING** Engine Pre-Heat, Water In Fuel, Engine Malfunction, Stop Engine.
- 3 RETURN TO CUT When the green light is "ON", activates the RETURN TO CUT programmable function.
- 9 4 IGNITION Accessory, Stop, Run, Start.
- 8 HEADER INDEX When the green light is "ON", activates the reel/conveyor speed features.
  - 6 AUGER / DRAPER SPEED Adjusts draper or auger speed, depending on the header that is attached.
  - **7 FLOAT** Provides in-cab adjustments for header flotation system. Left and right cylinders adjust independently.
  - 8 HAZARD WARNING LIGHT Flashing amber lights operate in both cab-forward and engine-forward positions.
  - TURN SIGNAL Activates the turn indicators, and scrolls through the CDM set-up screens.
  - **10 SELECT** Changes bottom line of the display, and works as the "enter" button in Program mode.

TIPS AND SHORTCUTS					
Enter Programming Mode	Ignition ON. Press and hold <b>PROGRAM</b> and <b>SELECT</b> at the same time, until the CDM display enters Programming mode.				
Exit Programming Mode	Press <b>PROGRAM.</b>				
Change Language to English	Ignition OFF. Press and hold <b>HEADER INDEX</b> and <b>PROGRAM</b> and <b>SELECT.</b>				
Clear Sub-Acres	Cab-Forward position. Ignition ON. Press <b>SELECT</b> until SUB-ACRES is viewed on the bottom line of the display. Press and hold <b>PROGRAM</b> until SUB-ACRES changes to "0.0".				

CDM PROGRAMMING MODE: TRACTOR SETUP (See M155 Operator's Manual for complete instructions and detailed information)					
SET KNIFE SPEED → SPM	Adjusts knife speed on draper and auger headers. Every header size and type of knife drive will have a different range for the knife speed. Refer your header Quick Card for optimal settings.				
KNIFE / DISC OVERLOAD SPD →SPM/RPM	KNIFE OVERLOAD SPEED (Auger / Draper) to be set at 75% of desired knife speed. DISC OVERLOAD SPEED (Rotary) should be set to 1300 rpm.				
OVERLOAD PRESSURE → PSI/BAR	Calibration of overload sensor (reel / draper / knife / disc system). See Overload Recommendations Chart below.				
HEADER INDEX MODE → Reel+Drapers OR Reel Only	Auger and Draper headers only. References and operates 'Reel Only' or 'Reel and Drapers' in relation to ground speed.				
RETURN TO CUT MODE → Height+Tilt OR Height Only	Set functions to be controlled by RETURN TO CUT (RTC) mode.				
AUTO RAISE →	Sets header-up height in RETURN TO CUT (RTC) mode. Range is 4.0 (min) to 10.0 (max).				
DWA INSTALLED → YES/NO?	Activates electrical controls for Double Windrow Attachment when installed.				
SWAP DWA CONTROLS→ NO/YES?	If "YES" selected, REEL FORE-AFT and DWA RAISE / LOWER switches will swap functions.				
DWA AUTO UP/DOWN YES/NO?	Enables the express UP and DOWN features in RETURN TO CUT (RTC) mode.				
HEADER CUT WIDTH → ##.# FT/M	Set cut width according to operating width. Calibration of acre counter. Header ID displayed on CDM at top right.				
HAY CONDITIONER → YES/NO?	Draper Header only. Activates hydraulics for conditioner and feed deck drive systems.				
AUGER HDR REEL SPD → RPM or MPH/KMH	Selection will appear only with an auger header attached. Allows REEL SPEED to display in RPM or MPH / KPH.				
SET TIRE SIZE →	Select installed tire size, for ground speed and acre counter calibration.				
SET ENGINE ISC RPM → NO/YES?	ENGINE INTERMEDIATE SPEED CONTROL. Engine RPM can be limited to a specified value while header is engaged. Scroll to desired RPM value. Use HAZARD key to set.				
SET CONTROL LOCKS → NO/YES?	Allows header functions to be locked from Operator control. (for example: Locking reel speed and/or reel fore-aft controls from Operator.)				
VIEW CONTROL LOCKS → NO/YES?	Allows Operator to view control lock status, and engine hours when status was established. (for example: REEL FORE-AFT - 224.5 HRS LOCKED).				

HEADER MODEL	APPLICATION / SYSTEM	SUGGESTED OVERLOAD WARNING SETTING psi (kPa)	WINDROWER PRESSURE RELIEF SETTING psi (kPa)		
R Series Disc Pressure		4000 (27579)	4200 (28958)		
A Series D Series	Reel / Draper Pressure	3000 (20684)	3200 (22063)		
	Knife / Conditioner Pressure	4000 (27579)	4200 (28958)		

