Maintenance and Servicing

Subject to change without notice

M155 Windrower Operator's Station Features

	ONGOING MAINTENANCE INTERVALS				
TIME			SERVICE	FLUID	,
10 Hours or Daily		 Check Tire Inflation. Check Engine Oil Level. Check Engine Coolant Level At Reserve Tank. Clean Radiator, Hydraulic Oil Cooler, Charge Air Cooler, and A/C Condenser. Check Hydraulic Oil Level. Drain Fuel Filter Water Trap. Fill Fuel Tank. 		Fuel: Diesel No.2 Fuel:	9 G ((
50 Hours		 Check Hydraulid Grease Caster Grease Walking 	Diesel No.1 and No. 2 Mix	G (;	
		 Grease Forked Clean Cab Fres Check Gear Box 	Engine Coolant (Anti Freeze)	6 G (
100 Hours or 1. Clean Cab Air R Annually				Drive Wheel Lubricant	1 (
	NOTE: Refer to M155 Operator's Manual for 250, 500, 1000, 1500, 2000, 5000 Hour and Annual Maintenance.				
	BREAK-IN INSPECTIONS				
HRS	HRS ITEM		CHECK	Grease	
Every 0.25 Road or 1 Field	Drive Wheel Nuts		Torque: 170 ft·lbf (230 N·m) dry. Refer to M155 Operator's Manual	Engine Oil	1 [.] (
	A/C B	elt	Tension	5	
	Caster Wheel Nuts		Torque: 120 ft·lbf (163 N·m)	Hydraulic	1
5	Caster Wheel Anti- Shimmy Dampener Bolts		Torque Inboard Bolt: 100 ft-lbf (135 N·m) Outboard Bolt: 85 ft-lbf (115 N·m)	Hydraulic Oil	
		ng Beam Width ment Bolts	Torque: 330 ft·lbf (448 N·m)		
Wal		ng Beam Width ment Bolts	Torque: 330 ft·lbf (448 N·m)	Gear Box Lube	2
	Neutral		Adjusted by Dealer		
50	Hose Clamps: Air Intake, Radiator, Heater and Hydraulic		Hand-tighten unless otherwise noted	A/C Refrigerant A/C	(2
	Walking Beam Bolts		Torque: 330 ft-lbf (448 N·m)	Compressor Oil	8. (2
	Caster Wheel Anti- Shimmy Dampener Bolts		Torque Inboard: 100 ft-lbf (135 N·m) Torque Outboard: 85 ft-lbf (115 N·m)		
	Main Gearbox Oil			22	8 - 2 psi (2
	Drive Wheel Oil Lubricant Charge System & Hydrau- lic Oil Filters (except lift) Manifold Oil Filter		Change	Tires 18.	.4 - 2 psi (2
				Rear Tires	

FLUIDS AND LUBRICANTS					
FLUID		VOL	SPEC		ESCRIPTION / NFORMATION
Fuel: Diesel No.2		97 US Gallons (367 L)	ASTM D-975 Grade S15	Wa (by	lphur (by weight) 0.5% max. ter and Sediment vol) 0.05% max. ricity 520 microns
Fuel: Diesel No.1 and No. 2 Mix		97 US Gallons (367 L)	n/a	0.5 Wa (by v	lphur (by weight) % pref. 1% max. ter and Sediment weight) 0.1% max. ricity 460 microns
Engine Coolant (Anti Freeze)		6.6 US Gallons (25 L)	ASTM D-6120 and Fleetguard ES Compleat		Refer to M155 perator's Manual
Drive Wheel Lubricant		1.5 US Quarts (1.4 L)	SAE 75W-90 API service Class GL-5		lly synthetic gear icant (SAE J2360 preferred)
Grease		N/A	SAE Multi- Purpose	E) EP ma phi Use	gh Temperature ktreme Pressure 2. Maximum 1% olybdenum disul- de, Lithium base. as required unless otherwise noted
Engine Oil		11.6 US Quarts (11 L)	SAE 15W-40 for API Class SJ and CH-4	1	Engine Oil Pan
Hydraulic Oil		17.2 US Gallons (65 L)	SAE 15W-40 for API Class CJ-4. Refer to Operator's Manual	Wir	ndrower Drive and Header Drive
Gear Box Lube		2.2 US Quarts (2.1 L)	SAE 75W-90 API service Class GL-5 (SAE J2360 preferred)	Fully synthetic gear lubricant for Engine Gearbox	
A/C Refrigerant		5 lb. (2.27 kg)	R134A	Cab A/C System	
A/C Compressor Oil		8.1 fl. oz (240 cc)	SP-15 PAG	Cab A/C Compressor Lubricant	
	TIRE PRESSURES				
Drive			26 psi (179 kPa) TURF		
Tires	18.4 - 26 TURF 35 psi (241 kPa)		23.1 - 26 TURF 24 psi 20 psi (138 kPa) (165 kP		24 psi (165 kPa)

	0				
1 REVERSER - To activate, hold down and					
2	engage the header (requires optional hydraulics) GROUND SPEED RANGE				
8					
4					
6					
6	DWA RAISE / LOWER				
	FLOAT PRESETS				
	<u>A-Series, R-Series, or D-Series -</u> Without Hydraulic Deck Shift				
a	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 auto-					

memory of trim cylinder adjustments in each delivery opening position.

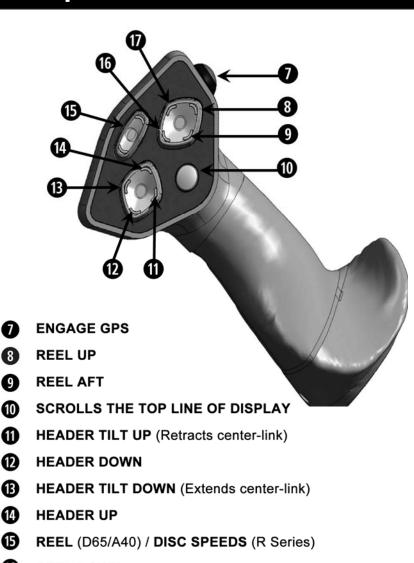
Allows for compensation of weight shifts to the float springs.

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All Rear Tire Pressures are 10 psi (69 kPa)

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- 16 **REEL DOWN**
- Ø **REEL FORE**

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

- 1. Main battery disconnect switch POWER ON.
- 2. GSL in N-DETENT. HEADER DRIVE switch OFF.
- 3. Seat Belt ON. Set throttle to START position "fully back".
- 4. Sound horn three times.
- 5. 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".
- 6. Turn ignition key to **START** position until engine starts. Release key. Allow engine to run at IDLE until temperature reaches 100°F (40°C).
- 7. CDM displays programmed header data for 5 seconds, and then returns to previous display.





Programming the CDM

2. While stationary, with the GSL in PARK, use the REEL SPEED control switch to set a 'Minimum

When operating at grounds speeds faster than

REEL INDEX. Using the GSL REEL SPEED

Reel speed will be equal to the greater of:

Operation of Header Index for DRAPER SPEED:

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

'Ground Speed + Index Value' OR

switch, Header Index can be adjusted.

'Minimum Reel Speed'.

the Minimum Reel Speed + Header Index value, REEL SPEED display will change to

Reel Speed'.

HARVEST MANAGER T 5.4 13.8 VOLTS 2150 10.0 HEADER HEIG PROGRAM PROG	 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. 3 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
HEADER INDEX MODE	right cylinders adjust independently. B HAZARD WARNING LIGHT - Flashing amber lights operate in both cab-forward
Enhanced reel/conveyor speed controls may be desirable in variable crop and terrain conditions.	and engine-forward positions. 9 TURN SIGNAL - Activates the turn
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.	 indicators, and scrolls through the CDM set-up screens. SELECT - Changes bottom line of the display, and works as the "enter" button in Program mode.
Operation of Header Index for REEL SPEED: (A and D Series)	in Frogram mode.
 With all bystanders clear, start windrower, and engage the header. 	TIPS AND SHORTCUTS

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

(See M155	CDM PROGRAMMIN Operator's Manual for co	
SET KNIFE SPEED → SPM	Adjusts knife speed on dra Every header size and typ Refer your header Quick	
KNIFE / DISC OVERLOAD SPD →SPM/RPM	KNIFE OVERLOAD SPEE DISC OVERLOAD SPEEI	
OVERLOAD PRESSURE → PSI/BAR	Calibration of overload ser See Overload Recommen	
HEADER INDEX MODE → Reel+Drapers OR Reel Only	Auger and Draper headers References and operates	
RETURN TO CUT MODE → Height+Tilt OR Height Only	Set functions to be control	
AUTO RAISE →	Sets header-up height in F	
DWA INSTALLED → YES/NO?	Activates electrical contro	
SWAP DWA CONTROLS→ NO/YES?	If "YES" selected, REEL F	
DWA AUTO UP/DOWN YES/NO?	Enables the express UP a	
HEADER CUT WIDTH → ##.# FT/M	Set cut width according to Header ID displayed on C	
HAY CONDITIONER → YES/NO?	Draper Header only. Activ	
AUGER HDR REEL SPD → RPM or MPH/KMH	Selection will appear only Allows REEL SPEED to d	
SET TIRE SIZE →	Select installed tire size, for	
SET ENGINE ISC RPM → NO/YES?	ENGINE INTERMEDIATE value while header is enga	
SET CONTROL LOCKS → NO/YES?	Allows header functions to (for example: Locking reel	
VIEW CONTROL LOCKS → NO/YES?	Allows Operator to view co (for example: REEL FORE	

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	Reel / Draper Pressure	3000 (20684)	3200 (22063)
D Series	Knife / Conditioner Pressure	4000 (27579)	4200 (28958)

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(D Series Only)

SPEED switch.

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Programming the CDM

NG MODE: TRACTOR SETUP omplete instructions and detailed information)

raper and auger headers. pe of knife drive will have a different range for the knife speed. Card for optimal settings.

ED (Auger / Draper) to be set at 75% of desired knife speed. D (Rotary) should be set to 1300 rpm.

ensor (reel / draper / knife / disc system). ndations Chart below.

s only.

'Reel Only' or 'Reel and Drapers' in relation to ground speed.

olled by RETURN TO CUT (RTC) mode.

RETURN TO CUT (RTC) mode. Range is 4.0 (min) to 10.0 (max).

ols for Double Windrow Attachment when installed.

FORE-AFT and DWA RAISE / LOWER switches will swap functions.

and DOWN features in RETURN TO CUT (RTC) mode.

o operating width. Calibration of acre counter. CDM at top right.

vates hydraulics for conditioner and feed deck drive systems.

with an auger header attached. lisplay in RPM or MPH / KPH.

for ground speed and acre counter calibration.

E SPEED CONTROL. Engine RPM can be limited to a specified aged. Scroll to desired RPM value. Use HAZARD key to set.

o be locked from Operator control. I speed and/or reel fore-aft controls from Operator.)

control lock status, and engine hours when status was established. E-AFT - 224.5 HRS LOCKED).

