

## ONGOING MAINTENANCE INTERVALS

TIME	SERVICE
<b>10 Hours or Daily</b>	<ol style="list-style-type: none"> <li>1. Check Tire Inflation.</li> <li>2. Check Engine Oil and Engine Coolant Levels.</li> <li>3. Clean Radiator and Hydraulic Oil Cooler, and Charge Air Cooler and A/C Condenser.</li> <li>4. Check Hydraulic Oil Level, Hoses and Lines for leaks.</li> <li>5. Drain Fuel Filter Water Trap.</li> </ol>
<b>50 Hours</b>	<ol style="list-style-type: none"> <li>1. Grease Caster Pivots and Spindle Bearings.</li> <li>2. Grease Walking Beam Center Pivot.</li> <li>3. Grease Top Link Pivots.</li> <li>4. Clean Cab Fresh Air Intake Filter.</li> <li>5. Check Engine Gearbox/Drive Wheel Lubricant.</li> </ol>
<b>100 Hours or Annually</b>	<ol style="list-style-type: none"> <li>1. Clean Cab Air Return Filter.</li> </ol>
<p><b>NOTE:</b> Refer to M205 Operator's Manual for 250, 500, 1,000, 1,500, 2,000 hour and Annual Maintenance.</p>	

## BREAK-IN INSPECTIONS

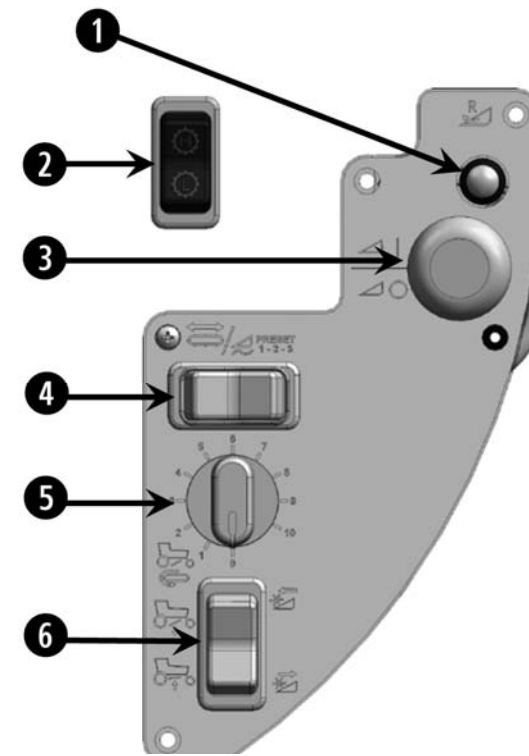
HRS	ITEM	CHECK
1	Drive Wheel Nuts	Torque: 170 ft-lbf (230 N-m) dry Refer to M205 Operator's Manual
5	A/C Belt	Tension
	Caster Wheel Nuts	Torque: 120 ft-lbf (163 N-m)
	Caster Wheel Anti-Shimmy Dampener Bolts	Torque Inboard: 100 ft-lbf (135 N-m) Torque Outboard: 85 ft-lbf (115 N-m)
	Walking Beam Bolts	Torque: 330 ft-lbf (448 N-m)
10	Walking Beam Bolts	Torque: 330 ft-lbf (448 N-m)
	Neutral	Dealer Adjust
50	Hose Clamps: Air Intake, Radiator, Heater, Hydraulic	Tightness
	Walking Beam Bolts	Torque: 330 ft-lbf (448 N-m)
	Caster Wheel Anti-Shimmy Dampener Bolts	Torque Inboard: 100 ft-lbf (135 N-m) Torque Outboard: 85 ft-lbf (115 N-m)
	Engine Gearbox Oil	Change
	Drive Wheel Oil	
Hydraulic Oil Filters (except lift)		

## FLUIDS AND LUBRICANTS

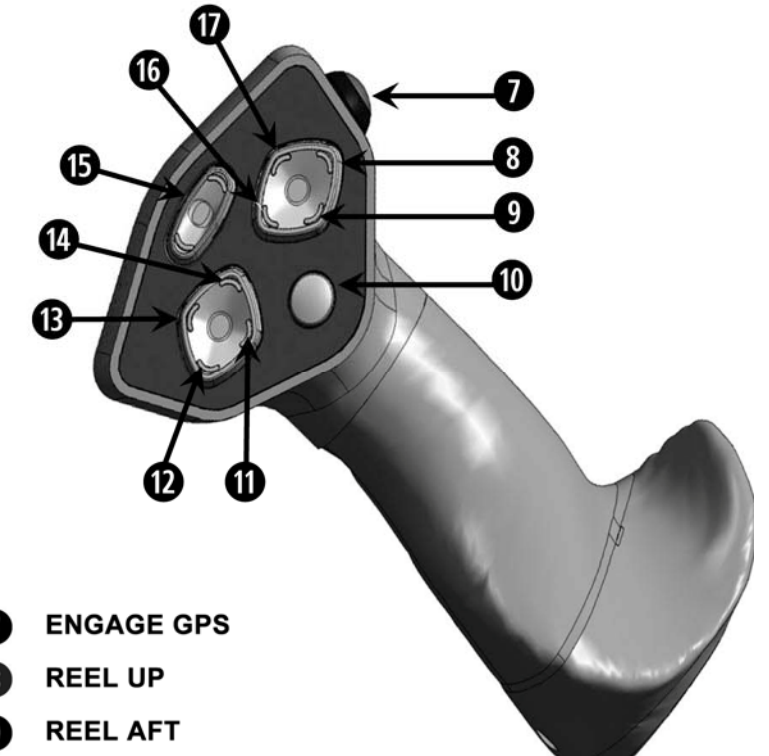
FLUID	VOL	SPEC	DESCRIPTION / INFORMATION
Fuel: Diesel No.2	97 US Gallons (378 L)	ATSM D-975	Refer to M205 Operator's Manual
Fuel: Diesel No.1 and No. 2 Mix	97 US Gallons (378 L)	n/a	Refer to M205 Operator's Manual
Antifreeze	5.3 US Gallons (20L)	ASTM D-4985	Refer to M205 Operator's Manual
Grease	N/A	SAE Multi-Purpose	High Temp. Extreme Pressure EP2. Max 1% molybdenum disulphide, Lithium base. Use as required unless otherwise noted.
Engine Oil	15 US Quarts (14.2 L)	SAE 15W40 for API Class SJ and CH-4	Engine Crankcase
Hydraulic Oil	17.2 US Gallons (66 L)		Windrower and Header Drive
Gear Lube	2.2 US Quarts (2.1L)	SAE 75W-90 API Service Class GL-5. E Synthetic Trans Lube	Engine Gearbox
	1.5 US Quarts (1.4 L)		Power Wheels
A/C Refrigerant	3.6 lb (1.63 kg)	R134A	---
Compressor Oil	8.1 fl. oz (240 cc)	PAG SP-15	---

## TIRE PRESSURES

Bar	32 psi (2.2 bar)
Turf	20 psi (1.4 bar)
Caster Wheels	10 psi (0.7 bar)



- 1 REVERSER** - to activate, hold down and engage the header
- 2 GROUND SPEED RANGE**
- 3 HEADER ENGAGE**
- 4 DECK SHIFT / FLOAT PRESET**
- 5 DWA DRAPER SPEED** (Optional)
- 6 DWA RAISE / LOWER**



- 7 ENGAGE GPS**
- 8 REEL UP**
- 9 REEL AFT**
- 10 SCROLLS THE TOP LINE OF DISPLAY**
- 11 HEADER TILT DOWN** (retracts center-link)
- 12 HEADER DOWN**
- 13 HEADER TILT UP** (extends center-link)
- 14 HEADER UP**
- 15 REEL (D65/A40) / DISC SPEEDS (R-Series)**
- 16 REEL DOWN**
- 17 REEL FORWARD**

## FLOAT PRESETS

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

FLOAT PRESET / 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 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.

## NORMAL START

1. GSL in **N-DETENT**
2. Set throttle to start position - fully back.
3. Sound horn three times.
4. Turn ignition key to **RUN** position.  
Single loud tone sounds, engine warning lights illuminate, and CDM displays "HDR DISENGAGED" or "HEADER ENGAGED" AND "IN PARK"
5. Turn ignition key to **START** position until engine starts, and then release key. Tone ceases, and warning lights go out.
6. CDM displays programmed header data for five seconds (if attached), and then returns to previous display.



- 1 **PROGRAM** - Press to enter and exit set-up modes, and for key shortcuts.
- 2 **ENGINE WARNING** - Engine Pre-Heat, Water In Fuel, CAUTION, Stop Engine.
- 3 **RETURN TO CUT** - When the green light is "ON", activates the RETURN TO CUT programmable function.
- 4 **IGNITION** - Accessory, Stop, Run, Start.
- 5 **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 float system. Left and right cylinders adjust independently.
- 8 **HAZARD WARNING LIGHT** - Flashing amber lights operate in both cab-forward and engine-forward positions.
- 9 **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.

**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 ground 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.
4. 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.

TIPS AND SHORTCUTS	
<b>Enter Programming Mode</b>	Ignition ON. Press and hold <b>PROGRAM</b> and <b>SELECT</b> at the same time, until the CDM display enters programming mode.
<b>Exit Programming Mode</b>	Press <b>PROGRAM</b> .
<b>Change Language to English</b>	Ignition OFF. Press and hold <b>HEADER INDEX</b> and <b>PROGRAM</b> and <b>SELECT</b> .
<b>Clear Sub-Acres</b>	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: WINDROWER SETUP	
<b>SET KNIFE SPEED → SPM</b>	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 to your header Quick Card for optimal settings.
<b>KNIFE / DISC OVERLOAD SPD →SPM/RPM</b>	KNIFE OVERLOAD SPEED (Auger / Draper) to be set at 75% of desired knife speed. DISC OVERLOAD SPEED (Rotary) should be set to 1,300 rpm.
<b>OVERLOAD PRESSURE → PSI/BAR</b>	Calibration of overload sensor (reel / draper / knife / disc system). See Overload Recommendations Chart below.
<b>HEADER INDEX MODE → Reel+Drapers OR Reel Only</b>	Auger and Draper headers only. References and operates 'Reel Only' or 'Reel and Drapers' in relation to ground speed.
<b>RETURN TO CUT MODE → Height+Tilt OR Height Only</b>	Set functions to be controlled by RETURN TO CUT mode.
<b>AUTO RAISE → ←10.0→</b>	Sets the header up height in RETURN TO CUT mode.
<b>DWA INSTALLED → YES/NO?</b>	Activates electrical controls for Double Windrow Attachment when installed.
<b>SWAP DWA CONTROLS→ NO/YES?</b>	If "YES" selected, REEL FORE-AFT and DWA RAISE / LOWER switches will swap functions.
<b>HEADER CUT WIDTH → ##.# FT/M</b>	Set cut width according to operating width. Calibration of acre counter. Header ID displayed on CDM at top right.
<b>HAY CONDITIONER → YES/NO?</b>	Draper Header only. Activates hydraulics for conditioner and feed deck drive systems.
<b>HDR REEL SPD → RPM or MPH/KMH</b>	Allows REEL SPEED to display in RPM or KPH / MPH.
<b>SET TIRE SIZE →</b>	Select installed tire size, for ground speed and acre counter calibration.
<b>SET ENGINE ISC RPM → NO/YES?</b>	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.
<b>SET CONTROL LOCKS → NO/YES?</b>	Allows header functions to be locked from Operator control. (for example: Locking reel speed and/or reel fore-aft controls from Operator.)
<b>VIEW CONTROL LOCKS → NO/YES?</b>	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 (bar)	WINDROWER DIFFERENTIAL RELIEF SETTING psi (bar)
<b>R Series</b>	Disc Pressure	5,000 (344)	5,500 (379)
<b>D and A Series</b>	Reel / Draper Pressure	2,500 (172)	2,900 (200)
	Knife / Conditioner Pressure	3,600 (248)	4,000 (275)