

Ongoing Maintenance Intervals	
Time	Service
Every 10 hours or daily	<ul style="list-style-type: none"> Check tire inflation. Check engine oil and engine coolant levels. Clean radiator, hydraulic oil cooler, charge air cooler, and A/C condenser. Check hydraulic oil level and inspect hoses/lines for leaks. Drain fuel filter water trap.
Every 50 hours	<ul style="list-style-type: none"> Grease caster pivots and spindle bearings. Grease top link pivots. Clean cab fresh air intake filter. Check engine gearbox oil level.
Every 100 hours or annually	<ul style="list-style-type: none"> Clean cab air return filter. Check cab suspension limit straps.
Every 250 hours	<ul style="list-style-type: none"> Check drive wheel lubricant.

NOTE: Refer to M205 Operator's Manual for complete maintenance schedule.

Fluids and Lubricants			
Fluid	Volume	Spec.	Description/Information
Fuel: diesel no.2	367 L (97 US gallons)	ATSM D-975	Refer to M205 Operator's Manual
Fuel: diesel no.1 and no. 2 mix	367 L (97 US gallons)	n/a	Refer to M205 Operator's Manual
Antifreeze	30 L (7.9 US gallons)	ASTM D-4985	Refer to M205 Operator's Manual
Grease	N/A	SAE Multipurpose	High temp. Extreme pressure EP2. Max 1% molybdenum disulphide, lithium base. Use as required unless otherwise noted.
Engine oil	14.2 L (15 US quarts)	SAE 15W-40 for API class SJ and CH-4	Engine crankcase
Hydraulic oil	65 L (17.2 US gallons)		Windrower and header drive
Gear lubricant	2.1L (2.2 US quarts)	SAE 80W-140 API service class GL-5	Engine gearbox
	1.4 L (1.5 US quarts)	SAE 75W-90 API service class GL-5	Power wheels
A/C refrigerant	2.27 kg (5 lb)	R134A	—
Compressor oil	240 cc (8.1 fl. oz.)	PAG SP-15	—

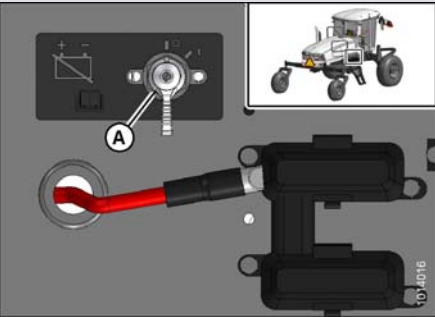
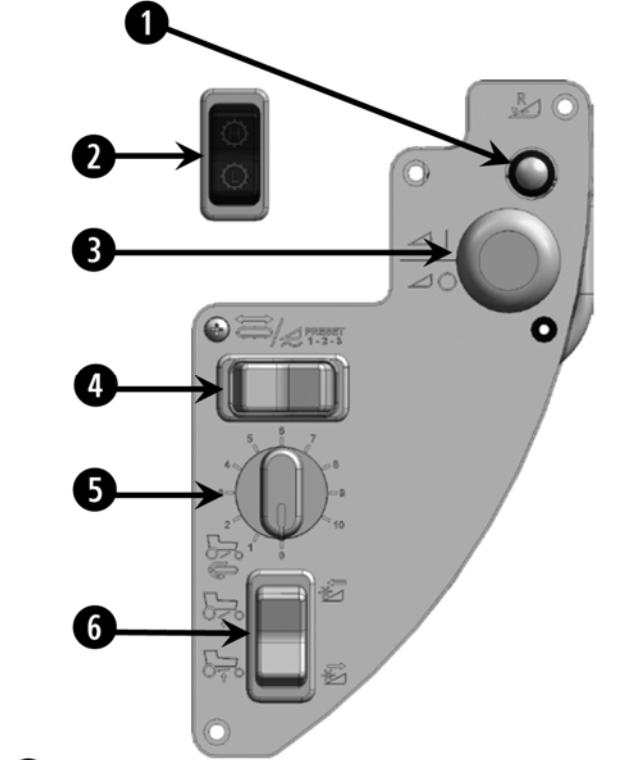
Break-in Inspections		
Hours	Item	Check
1	Drive wheel nuts	Torque: 510 Nm (375 lbf-ft) dry Refer to M205 Operator's Manual
5	A/C belt	Tension
	Caster wheel nuts	Torque: 163 Nm (120 lbf-ft)
	Caster wheel anti-shimmy dampener bolts	Torque inboard: 135 Nm (100 lbf-ft) Torque outboard: 115 Nm (85 lbf-ft)
	Walking beam bolts	Torque: 448 Nm (330 lbf-ft)
10	Walking beam bolts	Torque: 448 Nm (330 lbf-ft)
	Neutral	Dealer adjust
50	Hose clamps: air intake, radiator, heater, hydraulic	Tightness
	Walking beam bolts	Torque: 448 Nm (330 lbf-ft)
	Caster wheel anti-shimmy dampener bolts	Torque inboard: 135 Nm (100 lbf-ft) Torque outboard: 115 Nm (85 lbf-ft)
	Engine gearbox oil	Change
	Drive wheel oil	
Hydraulic oil filters (except lift)		

Tire Pressure	
Bar	220 kPa (32 psi)
Turf	140 kPa (20 psi)
Caster wheels	70 kPa (10 psi)

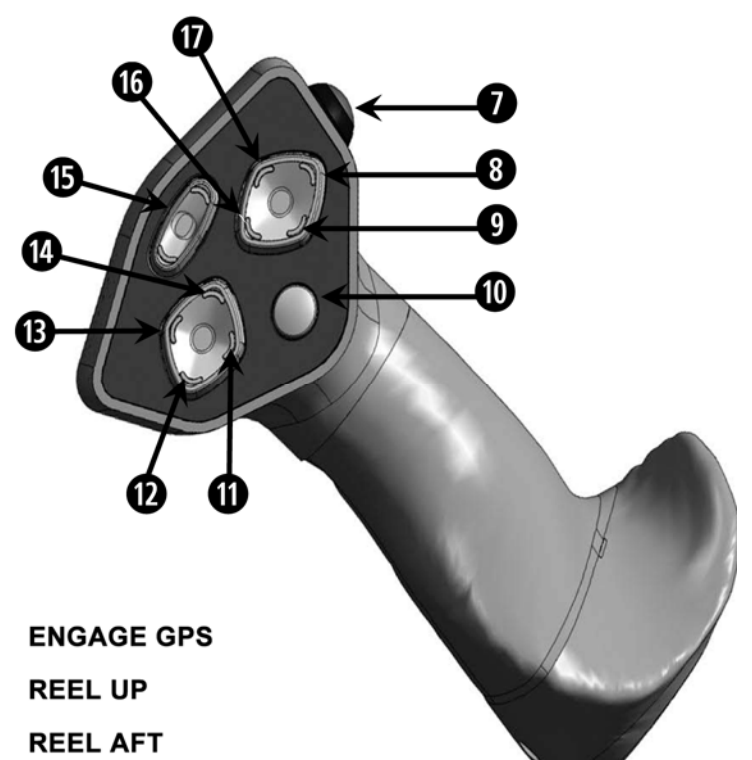
Battery Disconnect

A battery main disconnect switch (A) is located on the right cab-forward side frame rail, just behind the batteries, and can be easily accessed by moving the maintenance platform.

Ensure the switch is in the **POWER OFF** position when servicing electrical components, or to prevent loss of battery charge when the windrower will not be used for periods longer than one week.

- 1 REVERSER
engage the header (requires optional hydraulics)
- 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, D Series, and D1 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 Left 5.0, Right 6.5
- #2 - Normal width Left 5.0, Right 5.0
- #3 - Rocky width Left 6.5, Right 6.5

D Series and D1 Series with hydraulic deck shift
 The 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

- Place GSL in **N-DETENT**.
- Set throttle to start position—fully back.
- Sound horn three times.
- 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.
- Turn ignition key to **START** position until engine starts, and then release key. Tone ceases and warning lights go out.
 CDM displays the programmed header data for five seconds (if attached) and then returns to previous display.



- 1 **PROGRAM** - Press to enter and exit setup 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
- 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 flotation system; left and right cylinders adjust independently.
- 8 **HAZARD WARNING LIGHT** - Flashing amber lights operate in both cab-forward and engine-forward modes
- 9 **TURN SIGNAL** - Activates the turn indicators, and toggles between menu selections
- 10 **SELECT** - Advances through menu options, 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.

Header index mode 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, D, and D1 Series)

- With all bystanders clear, start windrower and engage the header.
- While stationary and with the GSL in N-DETENT, use the REEL SPEED control switch to set a minimum reel speed.

When operating at ground speeds faster than the minimum reel speed + header index value, REEL SPEED display will change to REEL INDEX. Using the REEL SPEED switch on the GSL, 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 and D1 Series only)

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

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.

CDM Programming Mode: Windrower Setup	
SET KNIFE SPEED → SPM	Adjusts knife speed on draper and auger headers. Every header size and type of knife drive will have a different knife speed range. Refer to your header quick card for optimal settings.
KNIFE/DISC OVERLOAD SPD → SPM/RPM	KNIFE OVERLOAD SPEED (Auger/Draper) and DISC OVERLOAD SPEED (rotary) Recommended setting is 75% of knife/disc speed. Range is -100 to -500 SPM/RPM. Default setting is -300 SPM/RPM.
OVERLOAD PRESSURE → PSI/BAR	Calibration of overload sensor (reel/draper/knife/disc system). Refer to the Suggested Overload Warning Setting column in chart below.
HEADER INDEX MODE → Reel + Drapers OR Reel only	Applies to 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	Controls functions to be controlled by RETURN TO CUT mode. Provides preset cutting height and tilt angle settings for headers. Refer to operator's manual for set-up procedure.
AUTO RAISE → ←10.0→	Sets the HEADER UP height in RETURN TO CUT mode.
DWA INSTALLED → YES/NO?	Activates electrical controls for double windrow attachment (DWA) when installed.
SWAP DWA CONTROLS → NO/YES?	If YES is selected, swaps functions between the REEL FORE-AFT buttons on the GSL and the DWA RAISE/LOWER switches on the console.
HEADER CUT WIDTH → ##.# FT/M	Sets cut width according to operating width and affects the calibration of acre counter. Header ID displayed on CDM at top right.
HDR REEL SPD → RPM or MPH/KMH	Allows REEL SPEED to display in rpm, mph, or km/h.
SET TIRE SIZE →	Selects the 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 the desired rpm value and use the 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 kPa (psi)	Windrower Differential Relief Setting kPa (psi)
R Series	Disc pressure	37,232 (5400)	37,900 (5500)
A, D, and D1 Series	Reel/draper pressure	19,995 (2900)	20,000 (2900)
	Knife/conditioner pressure	27,579 (4000)	27,500 (4000)