Subject to change without notice

ONGOING MAINTENANCE INTERVALS

TIME	SERVICE
10 Hours or Daily	1. Check tire inflation. 2. Check engine oil level. 3. Check engine coolant level at recovery tank. 4. Clean radiator, hydraulic oil cooler, A/C condenser, and charge air cooler. 5. Check hydraulic oil level. 6. Drain fuel filter water trap. 7. Fill fuel tank. 8. Check hydraulic hoses and lines for leaks.
50 Hours	1. Grease caster pivots and top lift link pivots. 2. Grease forked caster spindle bearings. 3. Clean cab fresh air intake filter.
100 Hours or Annually	1. Clean cab air return filter.

NOTE: Refer to M105 Operator's Manual for 250, 500, 1000, 1500, 2000, 5000 hour, annual & bi-annual maintenance.

BREAK-IN INSPECTIONS

HRS	ITEM	CHECK
1 Hour	Drive Wheel Nuts	Torque: 375 ft-lbf (510 N·m).dry Refer to M105 Operator's manual
At 5 Hours	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)
At 10 Hours	Walking Beam Bolts	Torque: 330 ft-lbf (448 N·m)
	Neutral	Dealer adjusted
At 50 Hours	Hose Clamps: Air Intake, Radiator, Heater, Hydraulic	Hand-tighten unless otherwise noted
	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)
	Drive Wheel Oil	Change
	Hydraulic Oil Filters	

FLUIDS AND LUBRICANTS

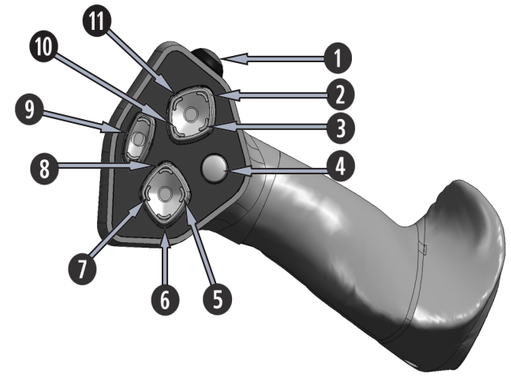
FLUID	VOL	SPEC	DESCRIPTION / INFORMATION
Diesel Fuel	97 US Gallons (367 L)	ASTM D-975 Grade S15	Refer to M105 Windrower Operator's Manual
Coolant Anti-Freeze	6.6 US Gallons (25 L)	ASTM D-6210	Refer to M105 Windrower Operator's Manual
Grease	N/A	SAE Multi-Purpose	High Temperature Extreme Pressure EP2 Maximum 1% Molybdenum Disulphide Lithium base. Use as required unless otherwise noted.
Engine Oil (including filter)	12.6 US Quarts (11.9 L)	SAE 15W40 for API Class SJ and CH-4	Engine Crankcase
Hydraulic Oil	11.5 US Gallons (44 L)	SAE 15W40 for API Class SJ and CH-4	Windrower and Header Drive
Drive Wheel Gear Lubricant	1.5 US Quarts (1.4 L)	SAE 75W-90 API Service Class GL-5. Fully Synthetic Gear Lube (SAE J2360)	Drive wheel gears AFTER initial change
Air Conditioner Refrigerant	5 lb (2.27 kg)	R134A	Cab A/C system
Air Conditioner Compressor Oil	8.1 fl. oz (240 cc)	SP-15 PAG	Cab A/C compressor lubricant

TIRE PRESSURES

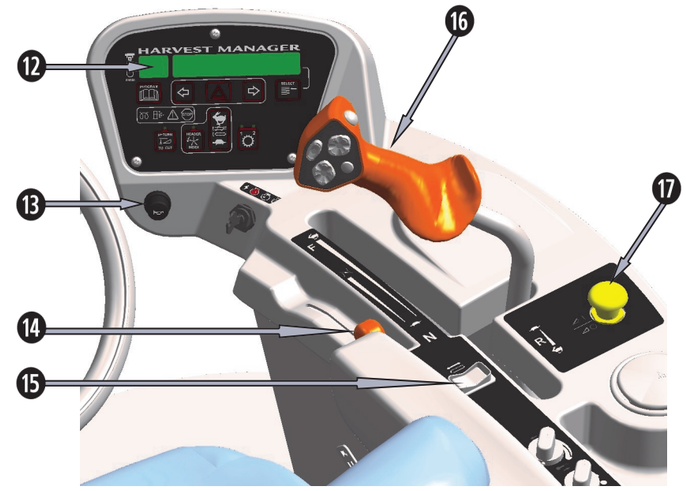
Drive Tires	18.4 - 26 BAR 32 psi (221 kPa)	600 - 65 R28 BAR 26 psi (179 kPa)	580 / 70 R26 TURF 24 psi (165 kPa)
	18.4 - 26 TURF 35 psi (241 kPa)	23.1 - 26 TURF 20 psi (138 kPa)	
Rear Tires	All rear tire pressures are 10 psi (69 kPa)		

M105 Windrower Operator's Station Features

1. **ENGAGE GPS**
2. **REEL UP**
3. **REEL AFT**
4. **SCROLLS THE TOP LINE OF DISPLAY**
5. **HEADER TILT UP** (Hydraulic center-link only)
6. **HEADER DOWN**
7. **HEADER TILT DOWN** (Hydraulic center-link only)
8. **HEADER UP**
9. **REEL SPEED**
10. **REEL DOWN**
11. **REEL FORWARD**



12. **CDM DISPLAY**
13. **HORN**
14. **THROTTLE**
15. **DECK SHIFT** (With compatible header)
16. **GROUND SPEED LEVER (GSL)**
17. **HEADER DRIVE ENGAGE**



NORMAL START- Engine Temperature Above 60°F (16°C)

1. GSL in **N-DETENT**.
2. Turn steering wheel until it locks. Fasten seat belt.
3. Push HEADER DRIVE switch to **OFF**.
4. Set throttle to **START** position - fully back.
5. Sound horn three times.
6. Turn ignition key to **RUN** position.

   Single loud tone sounds. Engine warning lights illuminate in self-test mode. CDM displays "HEADER DISENGAGED" and "IN PARK".
7. Turn ignition key to **START** position until engine starts. Release key.
8. Allow engine to run at IDLE until temperature reaches 100°F (38°C).

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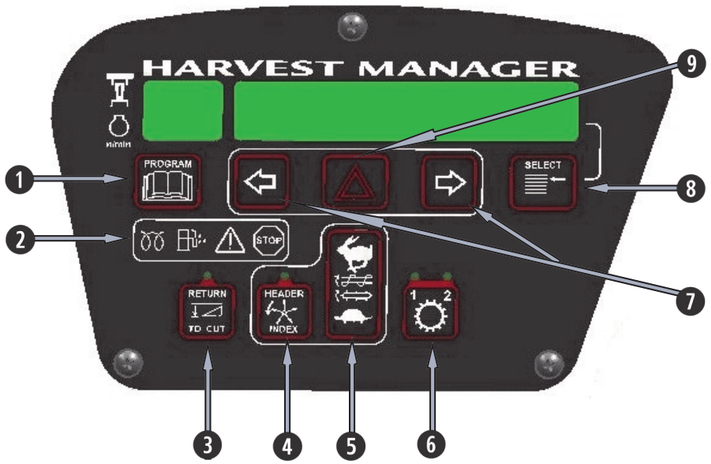
Programming the CDM



1. **PROGRAM** - Press to enter and exit set-up modes, and for key shortcuts.
2. **ENGINE WARNING LIGHTS** - Engine Pre-Heat, Water in Fuel, CAUTION, and Stop.
3. **RETURN TO CUT** - When the green light is ON, RETURN TO CUT (RTC) programmable function is activated.
4. **HEADER INDEX** - When the green light is ON, auto Reel/Draper Conveyor Speed features are activated.
5. **AUGER OR DRAPER SPEED** - Adjusts the draper or auger speed, depending on header that is attached.
6. **GROUND SPEED RANGE SELECTOR** - 1 is Field Speed; 2 is Road Speed.
7. **TURN SIGNALS** - Activates the turn indicators, and scrolls through CDM set-up screens.
8. **SELECT** - Changes the bottom line of the display, and works as the ENTER button in Program Mode.
9. **HAZARD WARNING LIGHTS** - Activates flashing amber lights.

HEADER INDEX MODE

NOTE: Optional expansion module required.

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) (with Reel Sensor installed)

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.
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

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

CDM PROGRAMMING MODE: WINDROWER SETUP
(See M105 Operator's Manual for complete instructions and detailed information)

SELECT HEADER TYPE? → DRAPER or A30 AUGER or A40 AUGER	Allows Operator to select header application (selected header will be flashing). Allows software to control appropriate values for the specific header drive.
TILT CYLINDER INSTALLED? → NO / YES?	Activates an installed Hydraulic Center-Link Cylinder kit. Must be set to YES if installed, regardless of whether expansion module monitor is installed.
REEL FORE / AFT? → NO / YES?	Activates an installed Reel Fore-Aft kit for D-Series headers.
KNIFE OVERLOAD SPD? → SPM	Expansion module must be installed for reel/knife speed sensing. Overload speed should be set at 75% of operating knife speed (spm).
HEADER INDEX MODE? → REEL AND CONVEYOR, OR REEL ONLY	Will only appear if D-Series header installed. See HEADER INDEX MODE.
RETURN TO CUT MODE? → HEIGHT AND TILT, OR HEIGHT ONLY	Sets the functions controlled by RETURN TO CUT. If hydraulic center-link and sensor not installed, RTC defaults to HEIGHT ONLY.
HEADER CUT WIDTH? → FEET OR METERS	Set cut width according to operating width for calibration of ACRE counter.
HAY CONDITIONER → NO / YES?	D-Series header only. Activates hydraulics for conditioner and feed deck drive systems.
AUGER HDR REEL SPD → RPM and MPH or KPH	Will only appear with an A-Series header attached. Allows REEL SPEED to display in RPM and MPH or KPH.
SET TIRE SIZE →	Select installed tire size, for ground speed and acre counter calibration.
SET ENGINE ISC RPM → OFF / ON?	ENGINE INTERMEDIATE SPEED CONTROL (ISC) reduces engine rpm when header is engaged. ON - 2300 rpm. OFF - normal operating speed.
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).

RETURN TO CUT FEATURE

1. Start engine and engage HEADER DRIVE.
2. Use ground speed lever controls to move header to cutting position.
3. Press the RETURN TO CUT (RTC) button on the CDM (green light illuminates).
4. HEADER HEIGHT and TILT position will remain in memory until RTC is turned OFF.
   NOTE: HEADER TILT RTC available only when windrower is equipped with hydraulic center-link and expansion module.
5. Single touch of HEADER DOWN returns to preset RTC height.
6. Double-tap of either HEADER TILT button returns to preset RTC header tilt (if programmed).

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