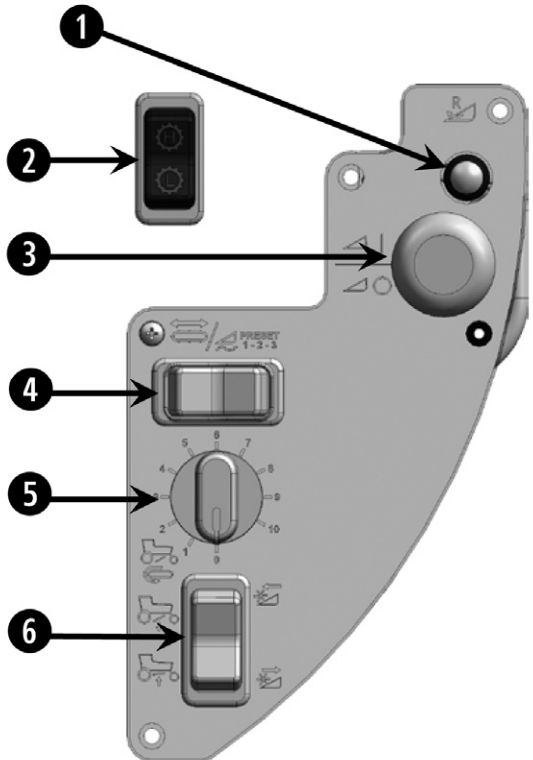


ONGOING MAINTENANCE INTERVALS	
TIME	CHECK
10 Hours or Daily	1. Check Tire Inflation. 2. Check Engine Oil and Engine Coolant Levels. 3. Clean Radiator and Hydraulic Oil Cooler, Charge Air Cooler and A/C Condenser. 4. Check Hydraulic Oil Level, Hoses and Lines for leaks. 5. Drain Fuel Filter Water Trap.
50 Hours	1. Grease Caster Pivots and Spindle Bearings. 2. Grease Walking Beam Center Pivot. 3. Grease Top Link Pivots. 4. Clean Cab Fresh Air Intake Filter. 5. Check Engine Gearbox/Drive Wheel Lubricant.
200 Hours or Annually	1. Check Drive Wheel Lubricant Level. 2. Grease Formed Caster Wheel Hub Bearings. 3. Check Wheel Nut Torque.
NOTE: Refer to M205 Operator’s Manual for 500, 1000, 2000, 3000 hour and Annual Maintenance.	

BREAK-IN INSPECTIONS		
HRS	ITEM	CHECK
0.25 Road or 1 Field	Drive Wheel Nuts	Torque: 220 ft-lbf (300 Nm)
5	A/C Belt	Check Tension
	Caster Wheel Nuts	Torque: 120 ft-lbf (163 Nm)
	Caster Wheel Anti-Shimmy Dampener Bolts	Torque Inboard: 100 ft-lbf (135 Nm) Torque Outboard: 85 ft-lbf (115 Nm)
	Walking Beam Bolts	Torque: 330 ft-lbf (448 Nm)
10	Walking Beam Bolts	Torque: 330 ft-lbf (448 Nm)
	Drive Wheel Nuts	Torque: 175 - 200 ft-lbf (237 - 271 Nm)
	Neutral	Dealer Adjust
50	Hose Clamps: Air Intake, Radiator, Heater, Hydraulic	Tighten unless otherwise noted.
	Walking Beam Bolts	Torque: 330 ft-lbf (448 Nm)
	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) Repeat checks till torque stabilizes.
	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 G (378 L)	ASTM D-975	Sulphur (by weight) 0.05 - .5% maximum Water and Sediment (by weight) 0.50% rec. 1% max. Lubricity 520 HFRR
Fuel: Diesel No.1 & No. 2 Mix	97 US G (378 L)	n/a	Sulphur (by weight) 0.05% rec. 1% maximum Water and Sediment (by weight) .1% max Lubricity 460 HFRR
Antifreeze	5.3 US Gal (20L)	ASTM D-4985	Ethylene Glycol With SCA. Mixed equally with high quality deionized, distilled, demineralized water Good to -30F (-34C)
A/C Refrigerant	3.6 lb (1.63 kg)	R134A	---
Compressor Oil	8.1 fl.oz (240 cc)	SP-15	---
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	10.6 US Qt (10L)	SAE 15W40 for API Class CH-4 or CI-4	Engine Crankcase
Hydraulic Oil	17.2 US Gal (66L)	SAE 15W40 for API Class SJ and CH-4	Windrower and Header Drive
Gear Lube	2.2 US Gal (2.1L)	SAE 75W-90 API Service Class GL-5. E Synthetic Trans Lube	Power Wheels and Engine Gearbox

TIRE PRESSURES	
Bar	32 psi (221 kPa)
Turf	20 psi (138 kPa)
Caster Wheels	10 psi (69 kPa)



1 REVERSER - to activate, hold down and engage the header (requires optional hydraulics)

2 GROUND SPEED RANGE

3 HEADER ENGAGE

4 DECK SHIFT / FLOAT PRE-SET

5 DWA DRAPER SPEED (Optional)

6 DWA RAISE / LOWER

FLOAT PRESETS

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

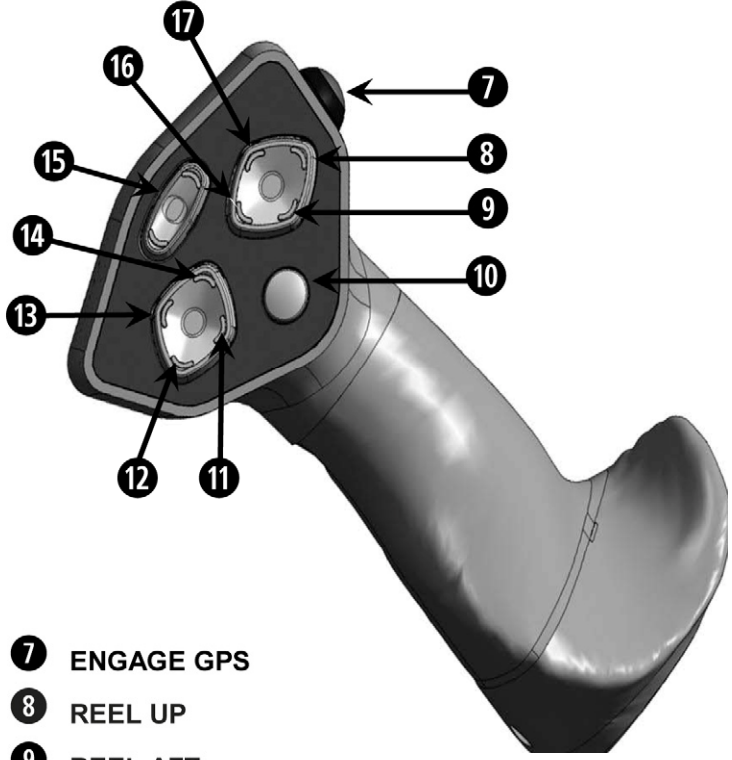
FLOAT PRE-SET / DECK SHIFT switch allows for auto-memory of three (3) different trim cylinder positions. For example:

#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 floatation springs.



7 ENGAGE GPS

8 REEL UP

9 REEL AFT

10 SCROLLS THE TOP LINE OF DISPLAY

11 CENTER-LINK IN (decreases header angle)

12 HEADER DOWN

13 CENTER-LINK OUT (increases header angle)

14 HEADER UP

15 REEL (D60/A40) / DISK SPEEDS (R85)

16 REEL DOWN

17 REEL FORE

NORMAL START

1. Set throttle to start position - fully back.

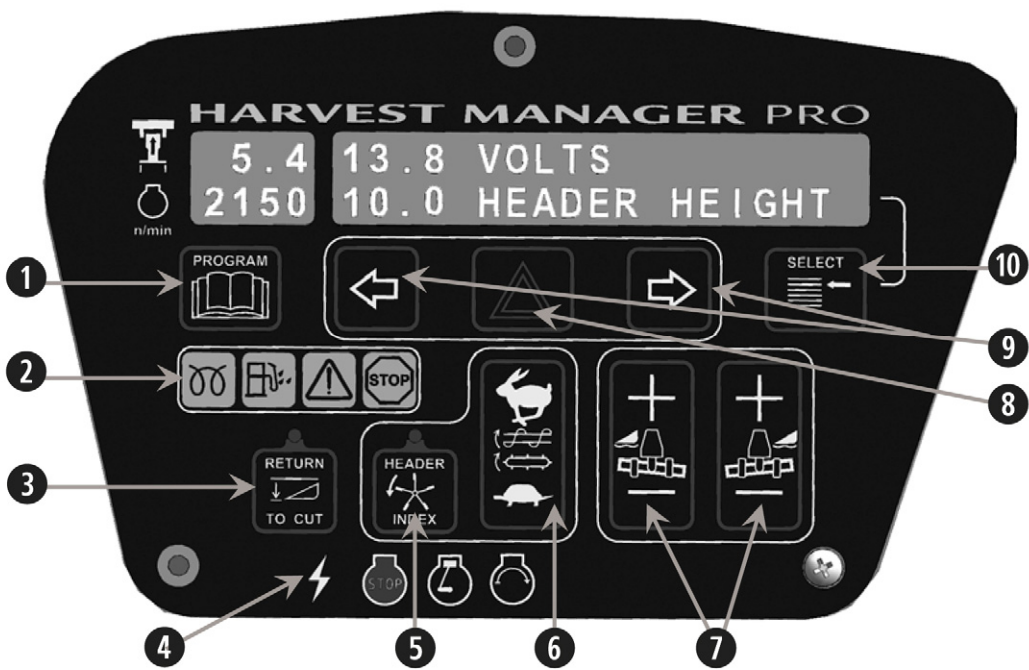
2. Sound horn three (3) times.

3. 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”

4. Turn ignition key to **START** position, until engine starts, and then release key. (Tone ceases, and warning lights go out).

CDM displays programmed header data for 5 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; 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 auto Reel/ Conveyor speed features
- 6 AUGER OR DRAPER SPEED** adjusts draper or auger speed, depending on the header that is attached.
- 7 FLOAT** provides in-cab adjustments for header floatation 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 is used to navigate 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
(D Series Headers Only)

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

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

Operation of Header Index for REEL SPEED:

- With all bystanders clear, start windrower, and engage the header.
- While stationary, with the GSL in Park, use the reel speed control to set a 'Minimum Reel Speed'.
- When operating at grounds speeds faster than the minimum reel speed + header index value,

CDM reel speed view will change to 'Reel Index'. Using the reel speed control, index value 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:

Follow instructions above, using the CDM's Draper/Auger speed control button, rather than the GSL's Reel speed control.

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 at any time the desired changes to CDM programming are complete.
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. Then, press and hold PROGRAM until Sub-Acres changes to "0.0".

CDM PROGRAMMING MODE: TRACTOR 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 range for the knife speed. Refer to the Quick Card for your Header to see 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) to its circuit's relief value. See Overload Recommendations Chart.
HEADER INDEX MODE → Reel+Drapers OR Reel Only	DRAPER HEADER ONLY. References and operates 'Reel Only' or 'Reel & Drapers' in synchronization with ground speed.
RETURN TO CUT MODE → Height+Tilt OR Height Only	Set functions to be controlled by "RETURN TO CUT"
AUTO RAISE → ←10.0→	Sets the height at which the header will raise to with the RTC engaged.
DWA INSTALLED → YES/NO?	Optional DWA (Double Windrow Attachment) electrical circuitry activation on installed units.
SWAP DWA CONTROLS→ NO/YES?	If "YES" selected, Reel Fore-aft and DWA Raise / Lower buttons will swap locations.
HEADER CUT WIDTH → ##.# FT/M	Set cut width according to operating width. Calibration of acre counter. Will also show Header ID on top right side on the screen.
TILT CYLINDER → NO/YES?	To activate optional Hydraulic Center-Link.
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 KPH / MPH.
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: Lock 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 - Locked @ 224.5 hrs.)

HEADER MODEL	APPLICATION / SYSTEM	SUGGESTED OVERLOAD WARNING SETTING psi (kPa)	WINDROWER PRESSURE RELIEF SETTING psi (kPa)
R85	Disc Pressure	5000 (34474)	5800 (39990)
D60 and A40D	Reel / Draper Pressure	3000 (20684)	3500 (24132)
D60 and A40D	Knife / Conditioner Pressure	4000 (27579)	4500 (31026)