

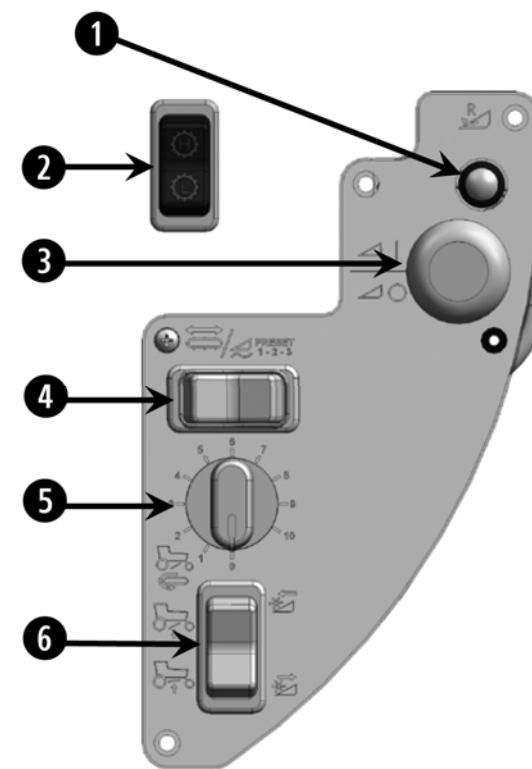
Ongoing Maintenance Intervals	
Time	Service
<b>10 Hours or Daily</b>	<ol style="list-style-type: none"> <li>1. Check tire inflation.</li> <li>2. Check engine oil level.</li> <li>3. Check engine coolant level at reserve tank.</li> <li>4. Clean radiator, hydraulic oil cooler, charge air cooler, and A/C condenser.</li> <li>5. Check hydraulic oil level.</li> <li>6. Drain fuel filter water trap.</li> <li>7. Fill fuel tank.</li> <li>8. Check hydraulic hoses and lines for leaks.</li> <li>9. Check diesel exhaust fluid (DEF) level.</li> </ol>
<b>50 Hours</b>	<ol style="list-style-type: none"> <li>1. Grease caster pivots.</li> <li>2. Grease top lift link pivots.</li> <li>3. Grease forked caster spindle bearings.</li> <li>4. Clean cab fresh air intake filter.</li> <li>5. Check gear box oil level.</li> </ol>
<b>100 Hours or Annually</b>	<ol style="list-style-type: none"> <li>1. Clean cab air return filter.</li> </ol>

NOTE: Refer to M155E4 Operator's Manual for 250, 500, 1000, 1500, 2000, 4500, 5000 hour and annual maintenance.

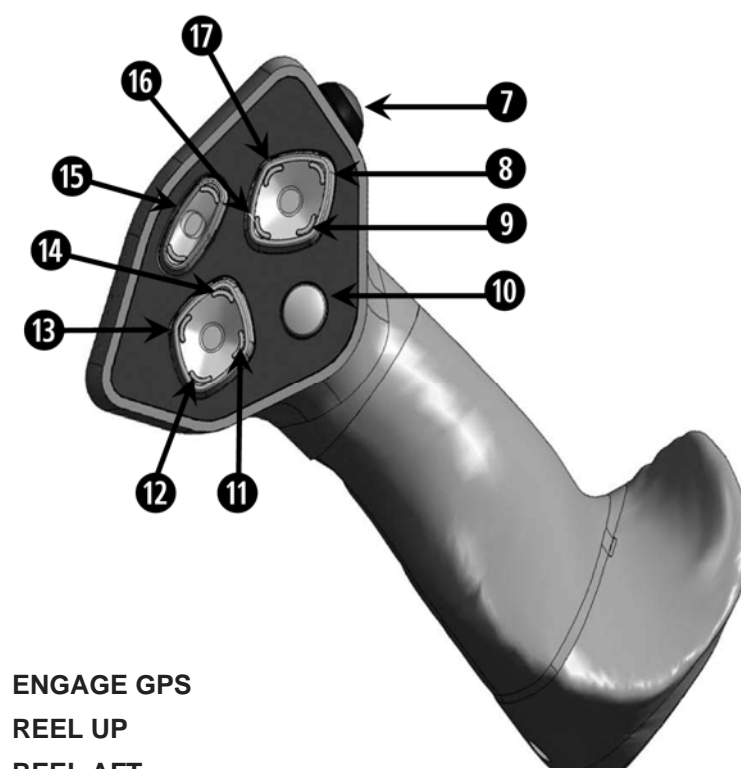
Break-In Inspections		
Hr(s)	Item	Check
1	Drive wheel nuts	Torque: 375 ft-lbf (510 N-m) dry. Refer to M155E4 Operator's Manual
5	A/C compressor belt	Tension
	Caster wheel nuts	Torque: 120 ft-lbf (163 N-m)
	Caster wheel anti-shimmy dampener bolts	Torque: Inboard bolt: 100 ft-lbf (135 N-m) Outboard bolt: 85 ft-lbf (115 N-m)
10	Walking beam width adjustment bolts	Torque: 330 ft-lbf (448 N-m)
	Neutral	Adjusted by Dealer
50	Hose clamps: air intake, radiator, heater and hydraulic	Hand-tighten unless otherwise noted
	Walking beam width adjustment 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)
	Main gearbox oil	Change
	Drive wheel oil lubricant	
Charge system oil filter		
Return oil filter		

Fluids and Lubricants			
Fluid	Vol	Spec	Description / Information
Diesel exhaust fluid (DEF)	7.5 US Gallons (29 L)	Must meet ISO 22241 requirements	Diesel exhaust system
Fuel: Diesel No.2	97 US Gallons (367 L)	ASTM D-975 Grade S15	Sulphur (by weight) 0.5% max. Water and sediment (by vol) 0.05% max. Lubricity 520 microns
Fuel: Diesel no.1 and no. 2 mix	97 US Gallons (367 L)	n/a	Sulphur (by weight) 0.5% pref. 1% max. Water and sediment (by weight) 0.1% max. Lubricity 460 microns
Engine coolant (antifreeze)	7.3 US Gallons (27.5 L)	ASTM D-6120 and Fleetguard ES Compleat®	Refer to M155E4 Operator's Manual
Drive wheel lubricant	1.5 US Quarts (1.4 L)	SAE 75W-90 API service class GL-5	Fully synthetic gear lubricant (SAE J2360 preferred)
Grease	As required	SAE multi-purpose	High temperature extreme pressure EP2. max 1% molybdenum disulphide, Lithium base. Use as required unless otherwise noted
Engine oil	11.6 US Quarts (11 L)	SAE 15W-40 for API class SJ and CJ-4	Engine oil pan
Hydraulic oil	17.2 US Gallons (65 L)	SAE 15W-40 for API class SJ and CH-4. Refer to operator's manual	Windrower 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 Tires	18.4 - 26 bar 46 psi (371 kPa)	600 - 65 R28 bar 35 psi (241 kPa)
	18.4 - 26 turf 46 psi (317 kPa)	23.1 - 26 turf 34 psi (234 kPa)
Rear Tires	All rear tire pressures are 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** (Optional)



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

Float Presets
<p><b>A-Series, R-Series, or D-Series - Without Hydraulic Deck Shift</b></p> <p>FLOAT PRE-SET / DECK SHIFT switch allows for auto-memory of three different trim cylinder positions. For example:</p> <ul style="list-style-type: none"> <li>#1 - Border Width LH 5.0, RH 6.5</li> <li>#2 - Normal Width LH 5.0, RH 5.0</li> <li>#3 - Rocky Width LH 6.5, RH 6.5</li> </ul>
<p><b>D-Series with Hydraulic Deck Shift</b></p> <p>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.</p> <p>Allows for compensation of weight shifts to the float springs.</p>

Normal Start - Engine Temp above 60°F (16°C)
<ol style="list-style-type: none"> <li>1. Main battery disconnect switch - <b>POWER ON</b>.</li> <li>2. GSL in <b>N-DETENT</b>. HEADER DRIVE switch <b>OFF</b>.</li> <li>3. Seat Belt <b>ON</b>. Set throttle to <b>LOW IDLE</b> position - "fully back".</li> <li>4. Sound horn three times.</li> <li>5. Turn ignition key to <b>RUN</b> position. Single loud tone sounds. Engine warning lights flash in self-test mode, and CDM displays "HEADER DISENGAGED" and "IN PARK".</li> <li>6. Turn ignition key to <b>START</b> position until engine starts. Release key. Allow engine to run at <b>IDLE</b> until temperature reaches 100°F (40°C).</li> <li>7. CDM displays programmed header data for five seconds, and then returns to previous display.</li> </ol>



- 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 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 floating system. Left and right cylinders adjust independently.
- 8 **HAZARD WARNING LIGHT** - Flashing amber lights operates 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-Series 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 speed 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".
<b>NOTE: See M155E4 Operator's Manual for complete instructions and detailed information</b>	

Header Model	Application / System	Suggested Overload Warning Setting psi (kPa)	Windrower Pressure Relief Setting psi (kPa)
<b>R-Series</b>	Disc pressure	4000 (27,579)	4200 (28,958)
<b>A-Series D-Series</b>	Reel / draper pressure	3000 (20,684)	3200 (22,063)
	Knife / conditioner pressure	4000 (27,579)	4200 (28,958)



- 1 **FUEL and DEF LEVEL** - Amber light blinks when tank level reached 1/16.
- 2 **HIGH EXHAUST SYSTEM TEMPERATURE (HEST)** - When warning is active, icon is black and background amber. When inactive, icon is not visible.
- 3 **SCR SYSTEM CLEANING INHIBIT and SCR SYSTEM CLEANING FORCED** - Icons are gray when functions are inactive and turn black with amber background when active.

Alarm Tone	Reason	Duration
Ongoing intermittent moderate tone until the condition is corrected	When DEF or fuel level amber light first starts to blink (1/16th tank)	5 seconds
	When the <b>SCR system cleaning INHIBIT</b> is active and system calls for a passive SCR system cleaning	5 seconds, repeat every 30 mins
Single moderate tone	At the end of the delay for entering the brightness/tools menu	
	At the end of the delay when switch (icon) is activated	

Operation		
<b>SCR system cleaning INHIBIT</b>	Should only be activated when the environment is unsafe to allow high exhaust temperatures (i.e., in a bldg.).	To activate function, press and hold the icon for three seconds. The fuel gauge display is replaced with red text HOLD 3 SECONDS.
<b>SCR system cleaning FORCED</b>	Allows a manual (parked) exhaust system cleaning. It is used infrequently for unusual duty cycles. If required, it will illuminate amber. Should <b>NOT</b> be performed indoors.	
<b>HEST lamp</b>	Do <b>NOT</b> park vehicle indoors when lamp is on.	Appears when the engine enters a SCR system cleaning. This will not hinder normal vehicle operation.
Overriding engine shutdown	This should only be done in an emergency situation (e.g., clearing a railroad) as engine damage may occur.	Press the <b>PRESS HERE TO OVERRIDE</b> message that alternate with <b>SHUTDOWN IN</b> message. The countdown timer for shutdown will reset to 30 seconds.
Tools menu	Accessible through the fuel icon and gauge. Press and hold the fuel icon and gauge display for two seconds. Tools and brightness symbols come up. Pressing the brightness symbol will display the backlighting control function. Adjust if necessary. <b>NOTE:</b> Display will revert back to fuel icon and gauge if backlighting control function is not pressed for five seconds or if the DEF icon and gauge are pressed. Pressing the tools symbol brings up the languages menu and software version.	