# M105 Windrower Operator’s Station Features

## Ongoing Maintenance Intervals

<table>
<thead>
<tr>
<th>Time</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Hours or Daily</td>
<td>1. Check tire inflation. 2. Check engine oil level. 3. Check engine coolant level at recovery tank. 4. Clean radiator. 5. Check hydraulic oil level. 6. Drain fuel filter water trap. 7. Fill fuel tank. 8. Check hydraulic hoses and lines for leaks.</td>
</tr>
<tr>
<td>50 Hours</td>
<td>1. Grease caster pivots and top lift link pivots. 2. Grease forked caster spindle bearings. 3. Clean cab fresh air intake filter.</td>
</tr>
<tr>
<td>100 Hours or Annually</td>
<td>1. Clean cab air return filter. NOTE: Refer to M105 Operator’s Manual for 250, 500, 1000, 1500, 2000, 5000 hour, annual &amp; bi-annual maintenance.</td>
</tr>
</tbody>
</table>

## Break-in Inspections

<table>
<thead>
<tr>
<th>Hrs</th>
<th>Item</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Drive Wheel Nuts</td>
<td>Torque: 375 ft-lb (510 N·m) dry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refer to M105 Operator’s manual</td>
</tr>
<tr>
<td>At 5 Hours</td>
<td>A/C Belt</td>
<td>Tension</td>
</tr>
<tr>
<td></td>
<td>Caster Wheel Nuts</td>
<td>Torque: 120 ft-lb (163 N·m)</td>
</tr>
<tr>
<td></td>
<td>Castle Wheel Anti-Shimmy Damper Bolts</td>
<td>Torque: 100 ft-lb (135 N·m) Torque: 85 ft-lb (115 N·m)</td>
</tr>
<tr>
<td></td>
<td>Walking Beam Bolts</td>
<td>Torque: 330 ft-lb (448 N·m)</td>
</tr>
<tr>
<td>At 10 Hours</td>
<td>Walking Beam Bolts</td>
<td>Torque: 330 ft-lb (448 N·m)</td>
</tr>
<tr>
<td></td>
<td>Neutral</td>
<td>Dealer adjusted</td>
</tr>
<tr>
<td></td>
<td>Hose Clamps: Air Intake, Radiator, Heater, Hydraulic</td>
<td>Hand-tighten unless otherwise noted</td>
</tr>
<tr>
<td></td>
<td>Walking Beam Bolts</td>
<td>Torque: 330 ft-lb (448 N·m)</td>
</tr>
<tr>
<td>At 50 Hours</td>
<td>Castle Wheel Anti-Shimmy Damper Bolts</td>
<td>Torque: 100 ft-lb (135 N·m) Torque: 85 ft-lb (115 N·m)</td>
</tr>
<tr>
<td></td>
<td>Drive Wheel Oil</td>
<td>Change</td>
</tr>
<tr>
<td></td>
<td>Hydraulic Oil Filters</td>
<td>Change</td>
</tr>
</tbody>
</table>

## Fluids and Lubricants

<table>
<thead>
<tr>
<th>Fluid</th>
<th>Vol</th>
<th>Spec</th>
<th>Description / Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant Anti-Freeze</td>
<td>6.6 US Gallons</td>
<td>ASTM D-6210</td>
<td>Refer to M105 Windrower Operator’s Manual</td>
</tr>
<tr>
<td>Grease</td>
<td>N/A</td>
<td>SAE Multi-Purpose</td>
<td>High Temperature Extreme Pressure EP2 Maximum 1% Molybdenum Disulphide Lithium base. Use as required unless otherwise noted.</td>
</tr>
<tr>
<td>Engine Oil (including filter)</td>
<td>12.6 US Quarts (11.9 L)</td>
<td>SAE 15W40 for API Class SJ and CH-4</td>
<td>Engine Crankcase</td>
</tr>
<tr>
<td>Hydraulic Oil</td>
<td>11.5 US Gallons (44 L)</td>
<td>SAE 15W40 for API Class SJ and CH-4</td>
<td>Winrower and Header Drive</td>
</tr>
<tr>
<td>Drive Wheel Gear Lubricant</td>
<td>1.5 US Quarts (1.4 L)</td>
<td>SAE 75W-90 API Service Class GL-5, Fully Synthetic Gear Lube (SAE J2360)</td>
<td>Drive wheel gears AFTER initial change</td>
</tr>
<tr>
<td>Air Conditioner Refrigerant</td>
<td>5 b (2.27 kg)</td>
<td>R134A</td>
<td>Cab A/C system</td>
</tr>
<tr>
<td>Air Conditioner Compressor Oil</td>
<td>8.1 fl oz (240 cc)</td>
<td>SP-15 PAG</td>
<td>Cab A/C compressor lubricant</td>
</tr>
</tbody>
</table>

## Tires

<table>
<thead>
<tr>
<th>Drive Tires</th>
<th>18.4 - 26 BAR</th>
<th>32 psi (221 kPa)</th>
<th>600 - 65 R28 BAR</th>
<th>26 psi (179 kPa)</th>
<th>560 / 70 R26 TURF</th>
<th>24 psi (165 kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear Tires</td>
<td>18.4 - 26 TURF</td>
<td>35 psi (241 kPa)</td>
<td>23.1 - 26 TURF</td>
<td>20 psi (138 kPa)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Normal Start—Engine Temperature Above 60°F (16°C)

PROGRAM the CDM

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

1. 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.

2. 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.

3. REEL FORE / AFT? →
   NO / YES?
   Activates an installed Reel Fore-Aft kit for D-Series headers.

4. 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).

5. HEADER INDEX MODE? →
   REEL AND CONVEYOR, OR REEL ONLY
   Will only appear if D-Series header installed. See HEADER INDEX MODE.

6. RETURN TO CUT MODE? →
   HEIGHT AND TILT, OR HEIGHT ONLY
   If hydraulic center-link and sensor not installed, RTC defaults to HEIGHT ONLY.

7. HEADER CUT WIDTH? →
   FEET OR METERS
   Set cut width according to operating width for calibration of ACRE counter.

8. HAY CONDITIONER →
   NO / YES?
   Activates hydraulics for conditioner and feed deck drive systems.

9. 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.

10. SET TIRE SIZE →
    Select installed tire size, for ground speed and acre counter calibration.

11. 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.

12. 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).

13. 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 HEIGH 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).

TIPS AND SHORTCUTS

1. PROGRAM - Press to enter and exit set-up modes, and for key shortcuts.
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.

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 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.

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.

GUIDE INDEX - When the green light is ON, auto Reel/Draper Conveyor Speed features are activated.
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