

## M100 QUICK CARD

Supplement to M100 Operator's Manual. See manual for greater detail.

### Break-In Period Services

HRS	ITEM	CHECK
0.25 Road or 1 Field	Drive Wheel Nuts	Torque - 175-200 ft-lb (237-271 Nm) Repeat Check Until Torque Stabilizes
	A/C Belt Tension	Check Tension
5	Caster Wheel Nuts	Torque - 115-127 ft-lb (156-172 Nm)
	Caster Wheel Anti-Shimmy Dampener Bolts (Optional)	Inboard Torque-100 ft-lb (135 Nm) Outboard Torque-85 ft-lb (115 Nm)
	Walking Beam Width Adjustment Bolts	Torque - 330 ft-lb (448 Nm)
10	Walking Beam Width Adjustment Bolts	Torque - 330 ft-lb (448 Nm)
	Drive Wheel Nuts	Torque - 175-200 ft-lb (237-271 Nm) Repeat Check Until Torque Stabilizes
	Neutral	Dealer Adjust
50	Hose Clamps - Air Intake/Radiator/Heater/Hydraulic	Tighten
	Walking Beam Width Adjustment Bolts	Torque - 330 ft-lb (448 Nm)
	Caster Wheel Anti-Shimmy Dampener Bolts (Optional)	Inboard Torque-100 ft-lb (135 Nm) Outboard Torque-85ft-lb (115 Nm)
	Drive Wheel Nuts	Torque - 175-200 ft-lb (237-271 Nm) Repeat Check Until Torque Stabilizes
	Drive Wheel Lubricant	Change
	Hydraulic Oil filters	Change
Annually	1. Change Fuel Tank Vent Line Filter 2. Check Battery Fluid Level & Charge 4. Check Anti-Freeze Concentration 5. Cycle A/C Blower Switch To Distribute Refrigerant Oil 6. Check Safety Systems (or 500 Hours)	

### General Services

10 Hours or Daily	1. Check Tire Inflation 2. Check Engine Oil Level 3. Check Engine Coolant Level 4. Clean Radiator, Hydraulic Oil Cooler, Charge Air Cooler, and A/C Condenser 5. Check Hydraulic Oil Level 6. Drain Fuel Filter Water Tap 7. Fill Fuel Tank 8. Check Hydraulic Hoses And Lines For Leaks
50 Hours	1. Grease Caster Pivots 2. Grease Walking Beam Center Pivot 3. Grease Top Link Pivots 4. Grease Forked Castor Spindle Bearings 5. Clean Cab Fresh Air Intake Filter
100 Hours or Annually*	1. Clean Cab Air Return Filter
200 Hours or Annually*	1. Check Drive Wheel Lubricant Level 2. Grease Formed Caster Wheel Hub Bearings 3. Check Wheel Nut Torque
500 Hours or 1 Year	1. Change Engine Oil and Filter 2. Change Fuel Filters 3. Change Hydraulic Oil Filters 4. Check Engine Valve Tappet Clearance 5. Change Engine Air Cleaner Filter Element
1000 Hours	1. Change Drive Wheel Lubricant 2. Check Engine Valve Tappet Clearance
2000 Hours	1. Change Hydraulic Oil 2. Perform General Engine Inspection 3. Change Engine Coolant
END OF SEASON	Refer to Section 6.3.9 of Operator's Manual

### Lubricant Specification

Lubricant	Volume	Specification	Use
Grease	N/A	SAE Multi-Purpose. High Temp. Extreme Pressure EP2. Max 1% molybdenum disulphuride. Lithium base	As required.
Engine (Cummins)	7.6 US Qt (7L)	SAE 15W40 for API Class SJ & CH-4 Engine Oil	Engine Crankcase
Hydraulic Oil	11.5 US Gal (45L)	SAE 15W40 for API Class SJ & CH-4 Engine Oil	Windrower & Header Drive
Gear Lube	1.5 US Qt (1.4L)	SAE 75W-90 API Service Class GL-5. E Synthetic Trans Lube	Drive Wheels

### Fluid Specifications

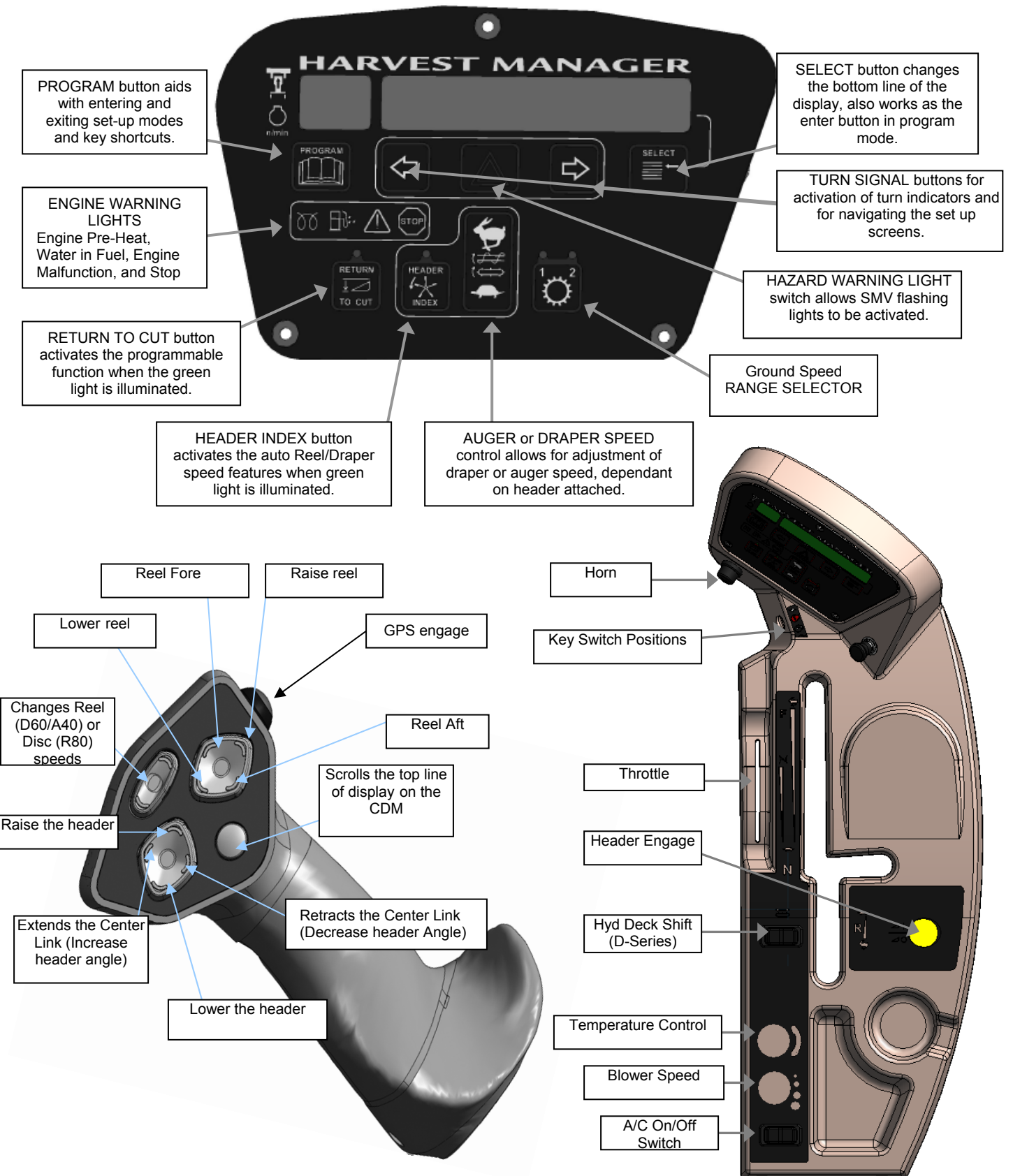
Fuel	Volume	Spec	Sulphur (by wgt)	Water & Sediment (by wgt)	Lubricity
Diesel No.2	97G (378L)	ASTM D-975	0.05-0.50%	0.05% max	520 HFRR
Diesel No.1 & 2 mix	97G (378L)	n/a	1%max .5% rec.	.1% max	460 HFRR
Fluid	Volume	Spec	Description		
Anti-freeze	5.3 US G (20L)	ASTM D-4985	Ethylene Glycol With SCA. Mixed equally with High quality deionized, demineralized, or distilled water Good to -30°F (-34°C)		
A/C Refrigerant	3.6lbs (163kg)	R134A	Refrigerant		
Compressor Oil	8.1fl.oz (240cc)	SP-15	Compressor		

Form 169449

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### MacDon's Harvest Manager



Rev. A

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### M100 HARVEST MANAGER KEY SHORTCUTS

**Enter Programming mode:** Key on, press and hold PROGRAM + SELECT at the same time until the display enters programming mode

**Exit Programming Mode:** Press PROGRAM at any time desired changes to CDM programming are complete.

**Change Region:** Enter Programming Mode. With display showing SELECT HEADER TYPE, press and hold HEADER INDEX+HAZARDS+SELECT. After a 3-6 sec delay, prompt will appear: North America, YES or NO.

**Change Language to English:** Ignition off, press and hold **HEADER INDEX + PROGRAM + SELECT**

**Clear Sub-Acres:** Ignition on, press SELECT until Sub-Acres is viewed on the bottom line of the display, then press and hold PROGRAM until Sub-Acres change to "0.0"

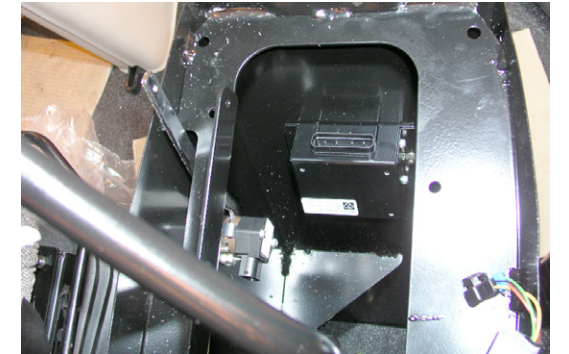
HARVEST MANAGER Programming Mode: TRACTOR SETUP	
<b>SELECT HEADER TYPE?</b> Draper <b>OR</b> A30 Auger <b>OR</b> A40 Auger	Allows operator to select Header application (selected header will be flashing). Allows for software to control appropriate valves for specific header drive.
<b>TILT CYLINDER INSTALLED?</b> NO/YES?	Activates an installed Hydraulic Center Link Cylinder kit. Must be set to yet if installed, regardless of whether expansion module monitor is installed.
<b>REEL FORE/AFT?</b> NO/YES?	Activates an installed Reel Fore/Aft kit for D50/D60 Draper headers.
<b>KNIFE OVERLOAD SPD?</b> xx00 spm	Expansion module must be installed for reel/knife speed sensing. Overload speed should be set @ 75% of operating knife speed (spm).
<b>HEADER INDEX MODE?</b> REEL & CONVEYOR <b>OR</b> REEL ONLY	Will only appear if Draper Header installed. See Operator Station Features.
<b>RETURN TO CUT MODE?</b> HEIGHT AND TILT <b>OR</b> HEIGHT ONLY	Set functions to be controlled by RETURN TO CUT. Will default to HEIGHT ONLY if Hydraulic Tilt Cylinder and Sensor are not installed on machine. Height & Tilt in RTC will only function with a Expansion Module
<b>HEADER CUT WIDTH?</b> ##.# ft/m	Set cut width according to operating width. Calibration of acre counter.
<b>HAY CONDITIONER?</b> NO/YES?	DRAPER Header Only. Activation of hydraulics for conditioner and feed deck drive systems.
<b>AUGER HDR REEL SPD?</b> RPM <b>OR</b> MPH/KPH	Selection will appear only with an Auger Header. Allows Reel speed to display in RPM or KPH/MPH
<b>SET TIRE SIZE?</b>	Select installed tire size, for ground speed and acre counter calibration.
<b>SET ENGINE ISC RPM?</b> OFF/ON?	Engine Intermediate Speed Control reduces engine rpm when header engaged. ON- high idle @ 2400 rpm. OFF- high idle @ 2600 rpm (normal).
<b>SET CONTROL LOCKS?</b> NO/YES?	Allows for Header functions to be locked from operator control. (i.e. Lock reel speed and/or reel fore/aft controls from operator.)
<b>VIEW CONTROL LOCKS?</b> NO/YES?	Allows operator to view control lock status, and engine hours when status was established. (i.e. Reel fore/aft- Locked @ 224.5 hrs.)

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### Expansion Module- Knife Speed, Reel Speed/Index, Header Angle.

This module is necessary to provide Reel speed sensing for the HEADER INDEX function to operate as well as additional sensors to display on the HARVEST MANAGER, namely: knife speed, reel speed, and header angle. It also allows you to use the Height & Tilt option in the Return to Cut menu



Optional Module is installed against the forward panel, inside the operator's station console. Existing windrower harnessing plugs into the module, allowing windrower and header sensors to communicate with the HARVEST MANAGER.

If you need this module please contact your dealer and order B4666

### Operator Station Features

#### Header Index Mode (D-Series Headers Only):

Enhanced reel/drapper 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:

1. With all bystanders clear, start windrower, and engage the header.
2. While stationary, with the GSL in Park, use the reel speed control to set a 'Minimum Reel Speed'.
3. When operating at ground 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.
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:

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

#### Return to cut:

The Return-to-Cut feature enables the operator to have the header return to a preselected cutting height and angle. The HARVEST MANAGER'S Tractor Setup allows 'Return to Cut' to be set to 'Height Only' or 'Height & Tilt'.

To set, with engine running, engage the header. Use GSL controls to move header to cutting position. Press 'Return To Cut' (green light illuminates). Until 'RTC' is turned off, this header position will remain in memory as cutting height/angle.

Single-touch of 'Header Down' returns the height. Double-tap of either angle button returns Header Angle.