MacDon™

M205 Self-Propelled Windrower

UNLOADING AND ASSEMBLY INSTRUCTIONS for NORTH AMERICAN SHIPMENTS

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MACDON M205 SELF-PROPELLED WINDROWER

INTRODUCTION

This instructional manual describes the unloading, set-up and pre-delivery requirements for the MacDon M205 Self-Propelled Windrower. Use the Table of Contents to guide you to specific areas.

Retain this instruction for future reference.

CAREFULLY READ ALL THE MATERIAL PROVIDED BEFORE ATTEMPTING TO UNLOAD, ASSEMBLE, OR USE THE MACHINE.

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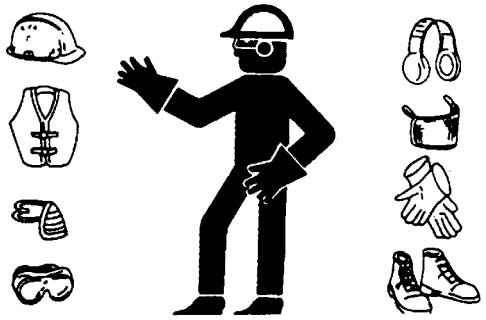
GENERAL SAFETY

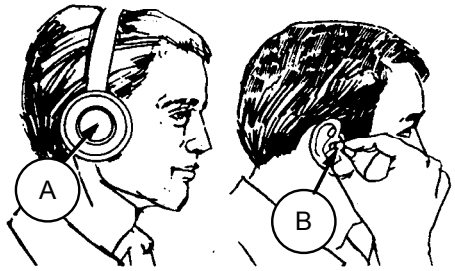
CAUTION

The following are general farm safety precautions that should be part of your operating procedure for all types of machinery.

- **Protect yourself.**
- **When assembling, operating and servicing machinery, wear all the protective clothing and personal safety devices that COULD be necessary for the job at hand. Don't take chances.**
- **You may need:**



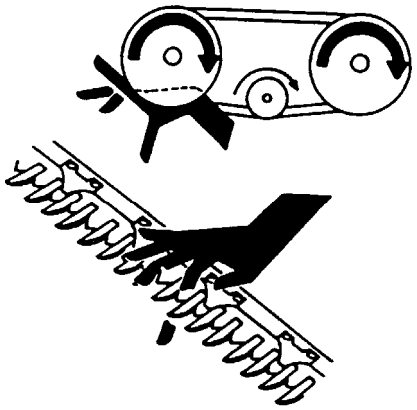
  - **a hard hat.**
  - **protective shoes with slip resistant soles.**
  - **protective glasses or goggles.**
  - **heavy gloves.**
  - **wet weather gear.**
  - **respirator or filter mask.**



  - **hearing protection. Be aware that prolonged exposure to loud noise can cause impairment or loss of hearing. Wearing a suitable hearing protective device such as ear muffs (A) or ear plugs (B) protects against objectionable or loud noises.**

- **Provide a first-aid kit for use in case of emergencies.**
- **Keep a fire extinguisher on the machine. Be sure the extinguisher is properly maintained and be familiar with its proper use.**
- **Keep young children away from machinery at all times.**
- **Be aware that accidents often happen when the operator is tired or in a hurry to get finished. Take the time to consider the safest way. Never ignore warning signs of fatigue.**
- **Wear close-fitting clothing and cover long hair. Never wear dangling items such as scarves or bracelets.**

- **Keep hands, feet, clothing and hair away from moving parts. Never attempt to clear obstructions or objects from a machine while the engine is running.**



- **Keep all shields in place. Never alter or remove safety equipment. Make sure driveline guards can rotate independently of the shaft and can telescope freely.**
- **Use only service and repair parts made or approved by the equipment manufacturer. Substituted parts may not meet strength, design, or safety requirements.**

- **Do not modify the machine. Unauthorized modifications may impair the function and/or safety and affect machine life.**
- **Stop engine, and remove key from ignition before leaving operator's seat for any reason. A child or even a pet could engage an idling machine.**

- **Keep the area used for servicing machinery clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment. Be sure all electrical outlets and tools are properly grounded.**
- **Use adequate light for the job at hand.**
- **Keep machinery clean. Do not allow oil or grease to accumulate on service platforms, ladders or controls. Clean machines before storage.**
- **Never use gasoline, naphtha or any volatile material for cleaning purposes. These materials may be toxic and/or flammable.**
- **When storing machinery, cover sharp or extending components to prevent injury from accidental contact.**

RECOMMENDED TORQUES

A. GENERAL

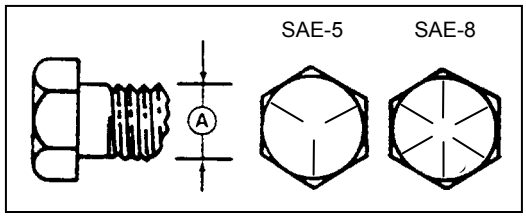
The tables shown below give correct torque values for various bolts and capscrews.

- Tighten all bolts to the torques specified in chart unless otherwise noted throughout this manual.
- Check tightness of bolts periodically, using bolt torque chart as a guide.
- Replace hardware with the same strength bolt.
- Torque figures are valid for non-greased or non-oiled threads and heads unless otherwise specified. Do not grease or oil bolts or capscrews unless specified in this manual.
- When using locking elements, increase torque values by 5%.

B. SAE BOLTS

BOLT DIA. "A"	NC BOLT TORQUE*			
	SAE 5		SAE 8	
in.	ft·lbf	N·m	ft·lbf	N·m
1/4	9	12	11	15
5/16	18	24	25	34
3/8	32	43	41	56
7/16	50	68	70	95
1/2	75	102	105	142
9/16	110	149	149	202
5/8	150	203	200	271
3/4	265	359	365	495
7/8	420	569	600	813
1	640	867	890	1205

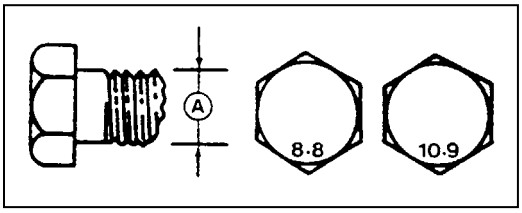
* Torque categories for bolts and capscrews are identified by their head markings.



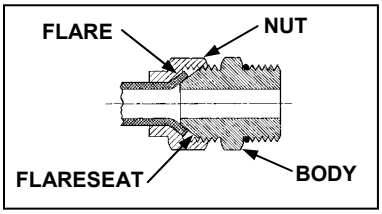
C. METRIC BOLTS

BOLT DIA. "A"	NC BOLT TORQUE*			
	8.8		10.9	
	ft·lbf	N·m	ft·lbf	N·m
M3	0.4	0.5	1.3	1.8
M4	2.2	3	3.3	4.5
M5	4	6	7	9
M6	7	10	11	15
M8	18	25	26	35
M10	37	50	52	70
M12	66	90	92	125
M14	103	140	148	200
M16	166	225	229	310
M20	321	435	450	610
M24	553	750	774	1050
M30	1103	1495	1550	2100
M36	1917	2600	2710	3675

* Torque categories for bolts and capscrews are identified by their head markings.



D. FLARE TYPE HYDRAULIC FITTINGS



a. Check flare and flare seat for defects that might cause leakage.

b. Align tube with fitting before tightening.

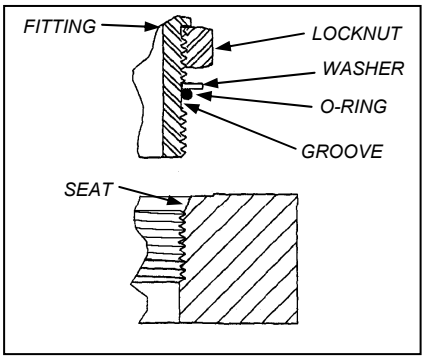
c. Lubricate connection and hand tighten swivel nut until snug.

d. To prevent twisting the tube(s), use two wrenches. Place one wrench on the connector body and with the second tighten the swivel nut to the torque shown.

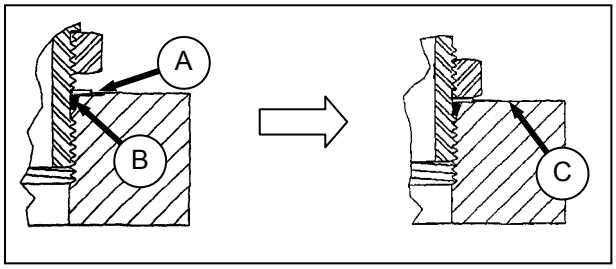
SAE NO.	TUBE SIZE O.D. (in.)	THD SIZE (in.)	NUT SIZE ACROSS FLATS (in.)	TORQUE VALUE*		RECOMMENDED TURNS TO TIGHTEN (AFTER FINGER TIGHTENING)	
				ft·lbf	N·m	Flats	Turns
3	3/16	3/8	7/16	6	8	1	1/6
4	1/4	7/16	9/16	9	12	1	1/6
5	5/16	1/2	5/8	12	16	1	1/6
6	3/8	9/16	11/16	18	24	1	1/6
8	1/2	3/4	7/8	34	46	1	1/6
10	5/8	7/8	1	46	62	1	1/6
12	3/4	1-1/16	1-1/4	75	102	3/4	1/8
14	7/8	1-3/8	1-3/8	90	122	3/4	1/8
16	1	1-5/16	1-1/2	105	142	3/4	1/8

* The torque values shown are based on lubricated connections as in reassembly.

E. O-RING TYPE HYDRAULIC FITTINGS



a. Inspect O-ring and seat for dirt or obvious defects.



b. On angle fittings, back off the lock nut until washer (A) bottoms out at top of groove (B) in fitting.

c. Hand tighten fitting until back up washer (A) or washer face (if straight fitting) bottoms on part face (C) and O-ring is seated.

d. Position angle fittings by unscrewing no more than one turn.

e. Tighten straight fittings to torque shown.

f. Tighten angle fittings to torque shown in the following table while holding body of fitting with a wrench.

SAE NO.	THD SIZE (in.)	NUT SIZE ACROSS FLATS (in.)	TORQUE VALUE*		RECOMMENDED TURNS TO TIGHTEN (AFTER FINGER TIGHTENING)	
			ft·lbf	N·m	Flats	Turns
3	3/8	1/2	6	8	2	1/3
4	7/16	9/16	9	12	2	1/3
5	1/2	5/8	12	16	2	1/3
6	9/16	11/16	18	24	2	1/3
8	3/4	7/8	34	46	2	1/3
10	7/8	1	46	62	1-1/2	1/4
12	1-1/16	1-1/4	75	102	1	1/6
14	1-3/16	1-3/8	90	122	1	1/6
16	1-5/16	1-1/2	105	142	3/4	1/8
20	1-5/8	1-7/8	140	190	3/4	1/8
24	1-7/8	2-1/8	160	217	1/2	1/12

* The torque values shown are based on lubricated connections as in reassembly.

ENGLISH/METRIC EQUIVALENTS

QUANTITY	INCH-POUND UNITS		FACTOR	SI UNITS (METRIC)	
	UNIT NAME	ABBR.		UNIT NAME	ABBR.
Area	acres	acres	x 0.4047 =	hectares	ha
Flow	US gallons per minute	(gpm)	x 3.7854 =	liters per minute	L/min
Force	pounds force	lbf	x 4.4482 =	Newtons	N
Length	inch	in.	x 25.4 =	millimeters	mm
	foot	ft	x 0.305 =	meters	m
Power	horsepower	hp	x 0.7457 =	kilowatts	kW
Pressure	pounds per square inch	psi	x 6.8948 =	kilopascals	kPa
			x .00689 =	megapascals	MPa
Torque	pound feet or foot pounds	lbf·ft or ft·lbf	x 1.3558 =	newton meters	N·m
	pound inches or inch pounds	lbf·in. or in·lbf	x 0.1129 =	newton meters	N·m
Temperature	degrees Fahrenheit	˚F	(˚F - 32) x 0.56 =	Celsius	˚C
Velocity	feet per minute	ft/min	x 0.3048 =	meters per minute	m/min
	feet per second	ft/s	x 0.3048 =	meters per second	m/s
	miles per hour	mph	x 1.6063 =	kilometers per hour	km/h
Volume	US gallons	US gal.	x 3.7854 =	liters	L
	ounces	oz.	x 29.5735 =	milliliters	ml
	cubic inches	$in.^3$	x 16.3871 =	cubic centimeters	cm^3 or cc
Weight	pounds	lb	x 0.4536 =	kilograms	kg

DEFINITIONS

TERM	DEFINITION
API	American Petroleum Institute
ASTM	American Society of Testing And Materials
Cab-Forward	Windrower operation with the operator and cab facing in the direction of travel.
CDM	Cab Display Module
DWA	Double Windrow Attachment
Engine-Forward	Windrower operation with the operator and engine facing in the direction of travel.
ISC	Intermediate Speed Control
N-DETENT	The slot opposite the neutral position on Operator’s console.
rpm	revolutions per minute
SAE	Society Of Automotive Engineers
WCM	Windrower Control Module
Windrower	Windrower with header attached.
Windrower Tractor	Power unit only. (Windrower without the header attached)

STEP 1. UNLOAD WINDROWER

CAUTION

To avoid injury to bystanders from being struck by machinery, do not allow persons to stand in unloading area.

A. TWO FORKLIFT METHOD

CAUTION

Equipment used for unloading must meet or exceed the requirements specified below. Using inadequate equipment may result in chain breakage, vehicle tipping or machine damage.

LIFTING VEHICLE	
Minimum Lifting Capacity *	5500 lb (2500 kg)
Minimum Fork Length	78 in. (1981 mm)

* At 48 inches (1220 mm) from back end of forks.

IMPORTANT

Forklifts are normally rated for a load located 24 inches (610 mm) ahead of back end of the forks.

To obtain the forklift capacity at 48 inches (1220 mm), check with your forklift distributor.

a. Move trailer into position, and block trailer wheels.

b. Set forklift tines to the widest possible setting.

c. Position one forklift on either side of trailer and position forks under windrower frame.

NOTE

Windrower center of gravity is approximately 55 inches (1397 mm) rearward of drive wheel center.

d. Lift with both forklifts simultaneously until Windrower is clear of trailer bed.

WARNING

Be sure forks are secure before moving trailer away from load. Stand clear when lifting.

e. Drive the truck slowly forward until trailer bed is clear of Windrower.

f. Lower unit slowly and simultaneously with both forklifts to the ground. Place wooden blocks under front shipping stands, if ground is soft.

g. Back off forklifts.

h. Check Windrower for shipping damage, and check shipment for missing parts.

B. SINGLE FORKLIFT METHOD

I. METHOD 1

CAUTION

Equipment used for unloading must meet or exceed the requirements specified below. Using inadequate equipment may result in chain breakage, vehicle tipping or machine damage.

LIFTING VEHICLE	
Minimum Lifting Capacity *	5500 lb (2500 kg)

* At 48 inches (1220 mm) from back end of forks.

IMPORTANT

Forklifts are normally rated for a load located 24 inches (610 mm) ahead of back end of the forks.

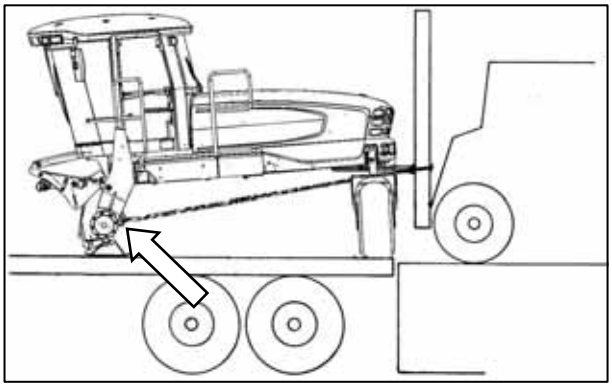
To obtain the forklift capacity at 48 inches (1220 mm), check with your forklift distributor.

CHAIN	
Type	Overhead Lifting Quality (1/2 inch)
Minimum Working Load	5000 lb (2270 kg)

a. Position rear of trailer against unloading dock that is the same height or slightly lower than the trailer bed.

b. Remove shipped parts from under windrower frame.

c. Set forklift tines to widest possible setting.



d. Position forklift up to rear of Windrower, and place forks under the rear frame cross member.

e. Install chains from forklift mast to jacking brackets on both front legs of Windrower.

f. Chains must be the same length.

CAUTION

The front legs rest on the trailer bed on skid shoes. Ensure there are no obstructions to prevent rearward sliding of the skid shoes and watch carefully that as unit is dragged, the skid shoes are not sliding sideways towards the edge of the trailer bed.

g. Drag Windrower rearward off of carrier.

h. Remove chains and back off the forklift.

i. Check Windrower for shipping damage, and check shipment for missing parts.

II. METHOD 2

CAUTION

Equipment used for unloading must meet or exceed the requirements specified below. Using inadequate equipment may result in chain breakage, vehicle tipping or machine damage.

LIFTING VEHICLE	
Minimum Lifting Capacity *	11000 lb (4994 kg)
Minimum Fork Length	78 in. (1981 mm)

* At 48 in. (1220 mm) from back end of forks.

IMPORTANT

Forklifts are normally rated for a load located 24 inches (610 mm) ahead of back end of the forks.

To obtain the forklift capacity at 48 inches (1220 mm), check with your forklift distributor.

WARNING

Be sure forks are secure before moving away from load. Stand clear when lifting.

a. Move trailer into position, and block trailer wheels.

b. Set forklift tines to the widest possible setting.

(continued next page)

c. Position forklift on left or right side of trailer, and position forks under windrower frame.

NOTE

Windrower center of gravity is approximately 55 inches (1397 mm) rearward of drive wheel center.

WARNING

Ensure forks project beyond far side of frame.

d. Lift until Windrower is clear of trailer bed.

e. Slowly back forklift away from trailer until Windrower is clear of trailer.

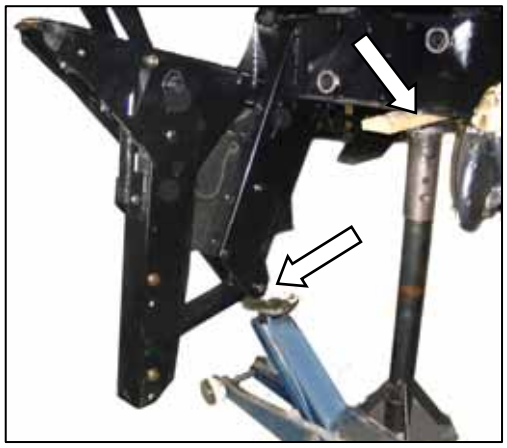
f. Lower unit slowly to the ground. Place wooden blocks under front shipping stands, if ground is soft.

g. Back off forklift.

h. Check Windrower for shipping damage, and check shipment for missing parts.

STEP 2. REPOSITION RH LEG

Only the right cab-forward leg requires repositioning from shipping to field configuration.

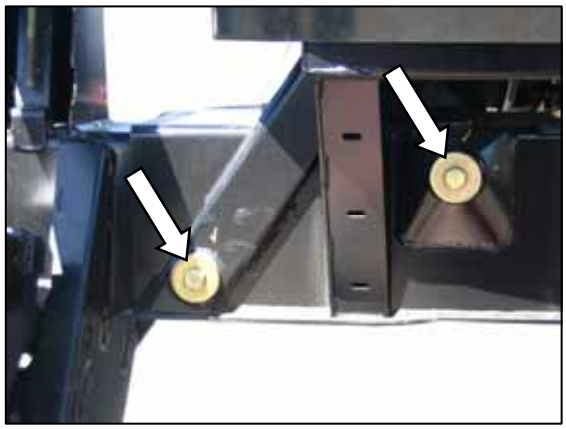


a. Support the front of the Windrower with stand (or equivalent) so that the RH leg is off the ground.

b. Position jack under RH leg, and raise jack slightly to take some weight off leg.

IMPORTANT

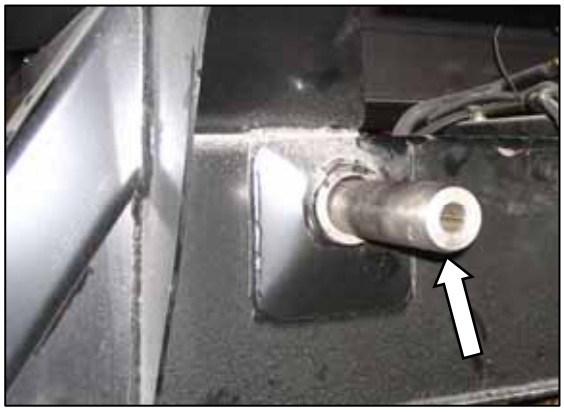
Removal of pins will be difficult if jack is not positioned to take weight off leg.



c. Remove two bolts, washers, and nuts from frame.

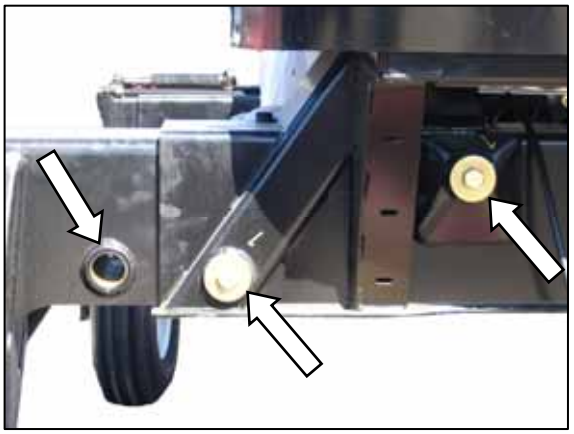
TOOL 163841

d. Adjust jack height while observing pin position in bore. When pin is loosest, tap out pin with hammer or use tool to extract pin.

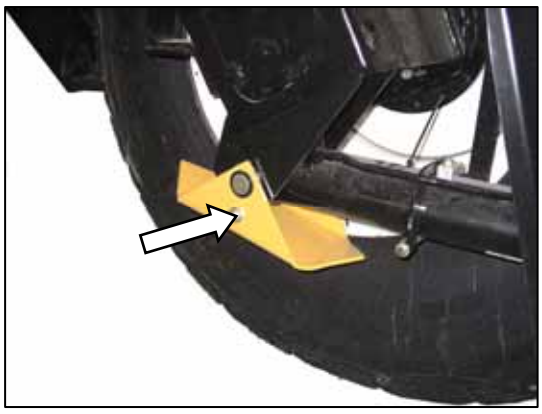


e. Repeat above step for second pin.

f. Move leg out to expose one hole.



g. Re-install pins and secure with bolts, washers, and nuts (not shown). Torque nuts to 100 ft·lbf (136 N·m).



h. Remove bolt and shipping skids from legs.

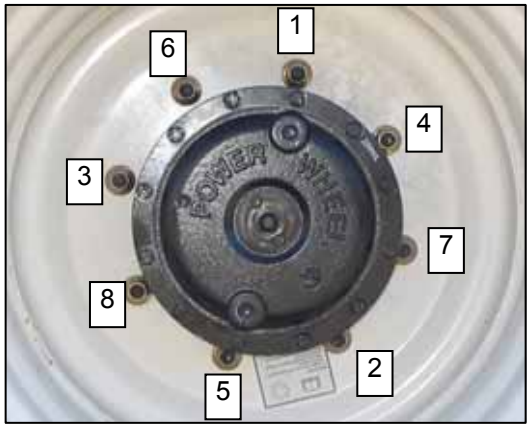
STEP 3. INSTALL FRONT WHEELS

a. Position wheel against hub, so that that air valves are on outside and tire tread point forward.

   For "Turf" tires (diamond tread), be sure arrow on sidewall points in forward rotation.

b. Lift wheel on hub with a forklift (or equivalent). Lower forklift.

c. Rotate wheel to align holes with studs, and push wheel onto studs.



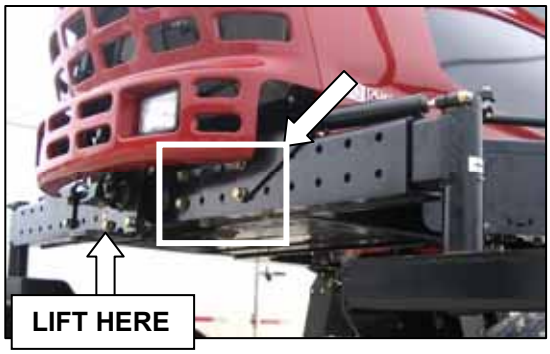
d. Install wheel nuts, and tighten to 220 ft·lbf (300 N·m) using the tightening sequence as shown.

NOTE

To avoid damage to wheel disks, do not over-tighten wheel nuts.

e. Repeat sequence three times.

STEP 4. REPOSITION CASTER WHEELS



a. Raise rear of windrower slightly so that most of the weight is off the casters, using a jack or other lifting device under the frame where shown.

NOTE

Lifting device should have a lifting capacity of at least 5000 lb (2270 kg).

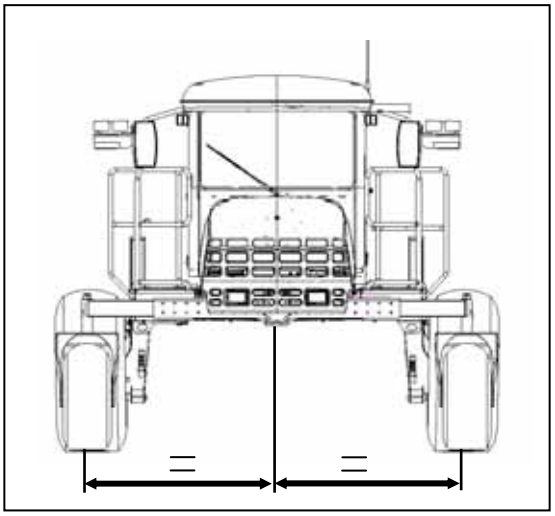
b. Remove six bolts (four on backside, two on underside), and washers from left and right side of walking beam.

c. Slide extensions outboard equal amounts, and align holes at desired location.

NOTE

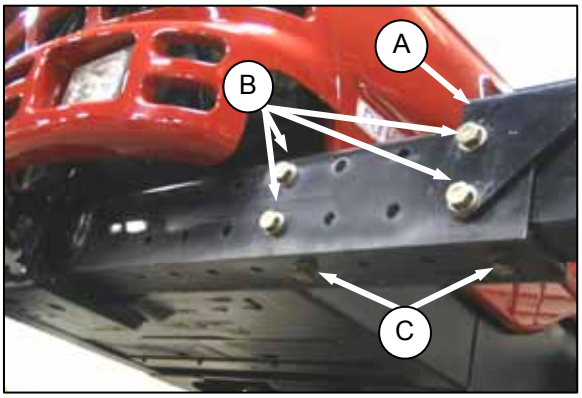
Use the caster wheels to assist in moving the axle by rotating the caster so that wheel is parallel to the axle.

(continued next page)



NOTE
Illustration shows widest tread width.

IMPORTANT
Caster wheels must be equidistant from center of Windrower.



d. Position bracket (A), and install bolts (B). The two shorter bolts are installed at the back inboard locations.
e. Install bottom bolts (C).
f. Tighten bolts as follows:
   1. Snug bottom bolts (C).
   2. Tighten and torque back bolts (B) to 330 ft·lbf (447 N·m).
   3. Tighten and torque bottom bolts (C) to 330 ft·lbf (447 N·m).
g. Lower Windrower to ground.

IMPORTANT
Re-torque bolts after first 5, and 10 hours of operation.

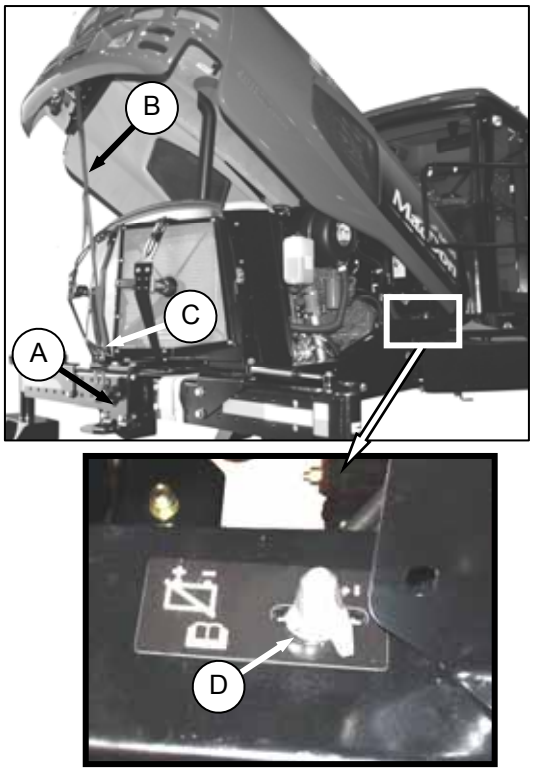
STEP 5. INSTALL STEPS

a. Install two ½ in. x 1.0 hex bolts in upper holes in platform. Do not thread in fully.

b. Hang step assembly (both step assemblies are the same) on bolts.
c. Install two ½ in. x 1.0 long hex bolts in lower holes in step, and tighten.
d. Tighten upper bolts installed in step a.
e. Repeat for other step assembly.

STEP 6. INSTALL BATTERIES

a. Open the hood at the lowest position, as follows:

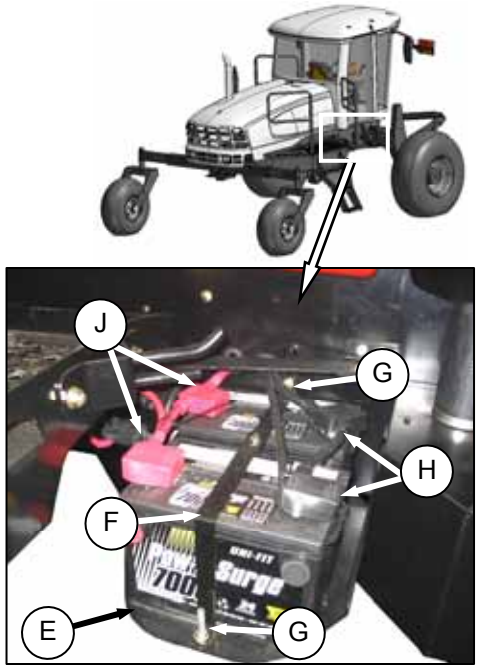


1. Locate latch (A) behind grill, and lift to release hood.
2. Raise hood until strap (B), which should be looped under hook (C), stops it at approximately a 40° angle.

b. Check battery disconnect switch (D) is turned off.

c. Open right hand (cab-forward) maintenance platform.

d. Remove cable ties securing battery clamps and cables to frame.



e. Position new batteries on holder (E).

RATING	GROUP	CCA	VOLT	MAX. DIMENSION
Heavy Duty, Off-Road, Vibration Resistant	BCI 31A	750	12	13 x 6.81 x 9.44 in. (330 x 173 x 240 mm)

f. Install clamp (F) with bolts (G) provided, and tighten securely.

IMPORTANT

BATTERY IS NEGATIVE GROUNDED. Always connect starter cable to the positive (+) terminal of battery and battery ground cable to negative (-) terminal of battery. Reversed polarity in battery or alternator may result in permanent damage to electrical system.

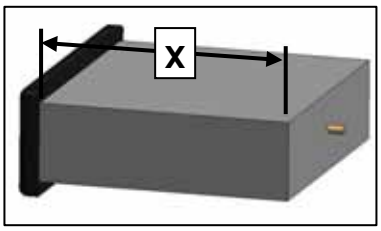
g. Attach positive (red) cable clamps (J) to positive post on batteries, and tighten. Reposition plastic covers onto clamps.

h. Attach negative (black) cable clamps (H) to negative post on batteries, and tighten clamps.

i. Move platform back to closed position.

j. Close engine compartment hood.

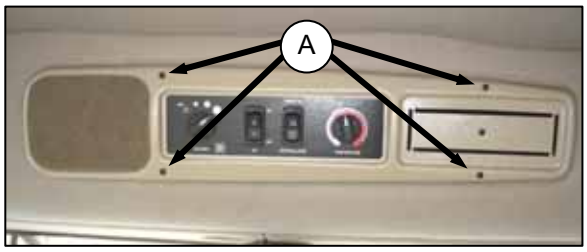
STEP 7. INSTALL AM/FM RADIO



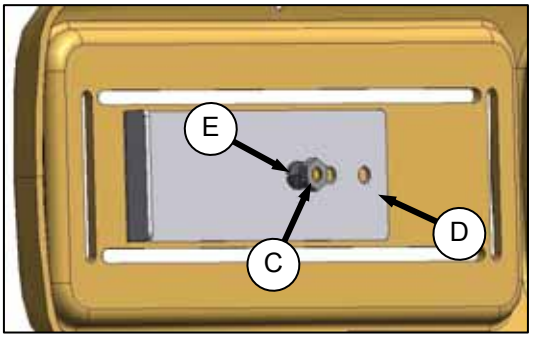
Provision has been made for installation of AM/FM radio. The mounting is designed to fit a DIN E style radio with a depth of **"X"** = 161 mm, and having a 5 mm threaded stud centered on the rear for support.

Provision has been made for adjustments should the radio fall outside these parameters.

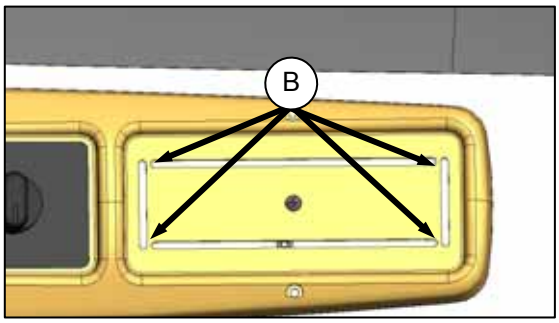
a. Ensure the battery disconnect switch is turned to the OFF position, and the ignition is turned to the OFF position.



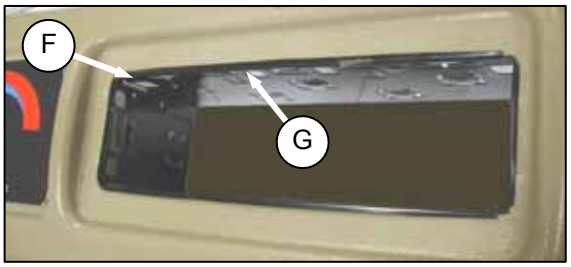
b. Remove radio panel by removing four screws (A).



c. Remove screw and nut (C) to remove support (D) from panel. Retain metric nut (E) and lockwasher.



d. Remove the cut-out by cutting the tabs (B) in the panel. Remove sharp edges on panel.

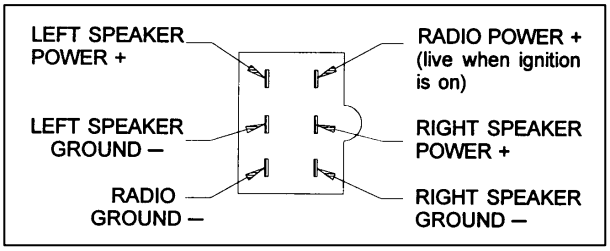


e. Locate receptacle (F) (supplied with radio) in opening, and secure by bending tabs (G) on receptacle against panel.

f. Insert radio into receptacle, and attach radio bezel. Ensure radio locks into position, and faceplate (H) is against the panel.

g. A six-pin connector for the radio is included in the wiring harness.

In order to mate properly with this connector, the radio must have a six-pin connector (Packard #2977042), and have a terminal arrangement as follows:



(continued next page)

h. Attach two additional wires in the wiring harness to the radio:
   1. Circuit 503 - Red with 1/4 in. female blade terminal. This is a live wire provided for powering a radio clock/memory, if these exist on your radio.
   2. Circuit 315 - Black ground wire attaches to radio body.

i. Plug cable from antenna into radio.

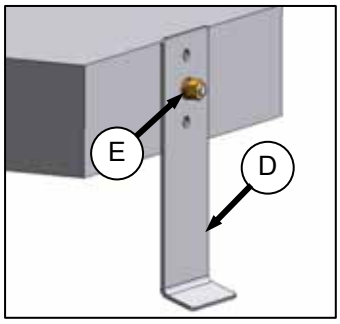
NOTE

An approved radio package is available from Radio Engineering Industries (REI) of Omaha, Nebraska.

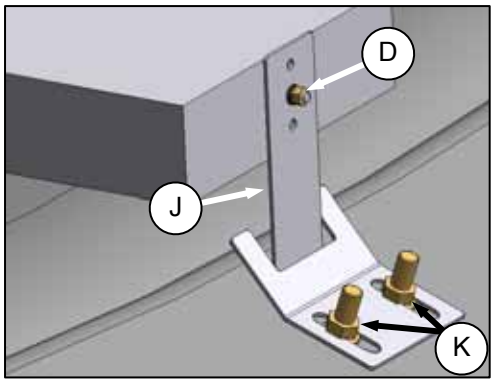
j. Attach stud (supplied with radio) to center rear of radio.

k. Attach support (D) to stud on back of radio chassis with lock washer and metric nut (E) that was supplied with the support.

   Support can be attached to chassis in multiple locations to allow for proper mounting of radio.



l. Reinstall radio panel with original screws.



m. Adjust bracket (J) if necessary by loosening nuts (K) to allow radio to slide into opening, and securely capture support (D).

n. Turn battery disconnect switch to ON position.

o. Turn ignition key to ACC, switch on the radio, and check operation in accordance with instructions supplied with the radio.

STEP 8. INSTALL SLOW MOVING VEHICLE (SMV) SIGN

ENGINE - FORWARD

a. Install SMV sign (shipped in cab) on Windrower in accordance with instructions supplied with the sign.

CAB - FORWARD

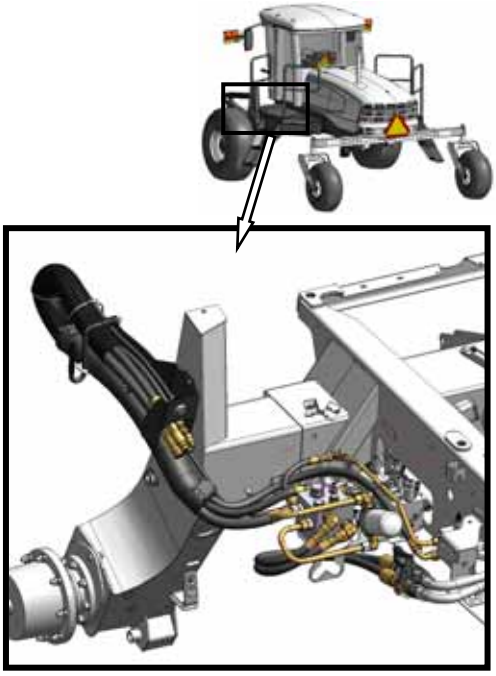
ALTERNATE LOCATION – CAB-FORWARD

b. The SMV signs must be visible when travelling on the road.

STEP 9. ATTACH HEADER

A. HEADER ATTACHMENT - D SERIES

The M205 must be equipped with a draper drive basic kit and a completion kit as shown.

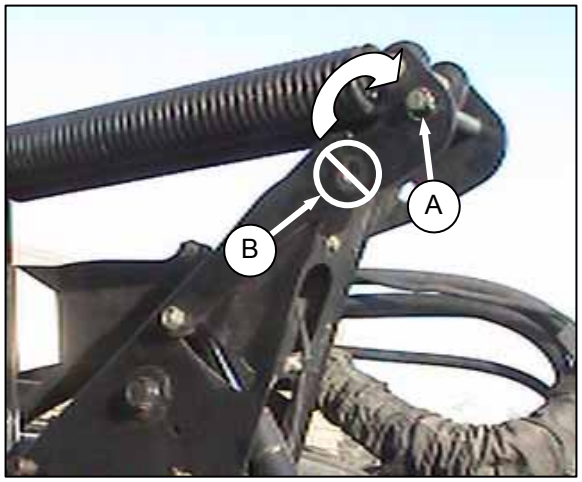


DRAPER HEADER HYDRAULICS

DRAPER HEADER REEL HYDRAULICS

a. If necessary, obtain the following kits from your MacDon dealer and install them in accordance with the instructions supplied with the kits.

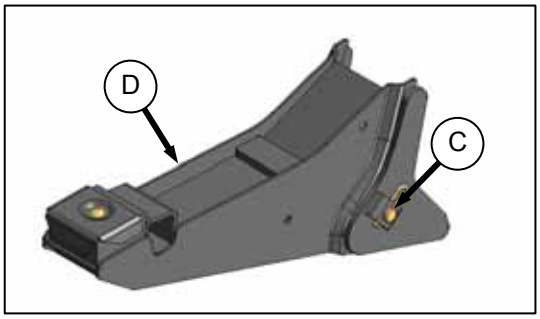
Kit Description	Kit Number
Base Kit	B5491
Completion	B5496
Coupler	B5497



IMPORTANT

To prevent damage to the lift system when lowering header lift linkages without a header or weight box attached to windrower, ensure that float engagement pin is installed in storage location (A), and **not** installed at hole location (B).

b. If not installed, attach draper header boots (supplied with header) to windrower lift linkage as follows:



1. Remove pin (C) from boot (D).

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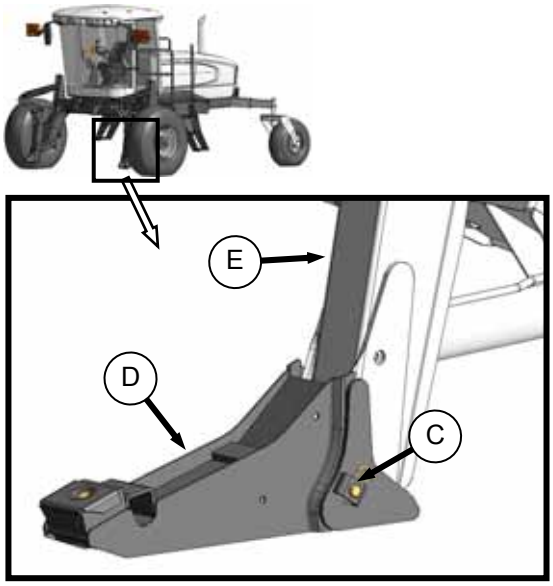
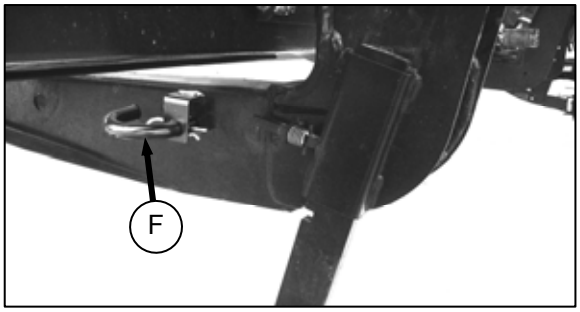


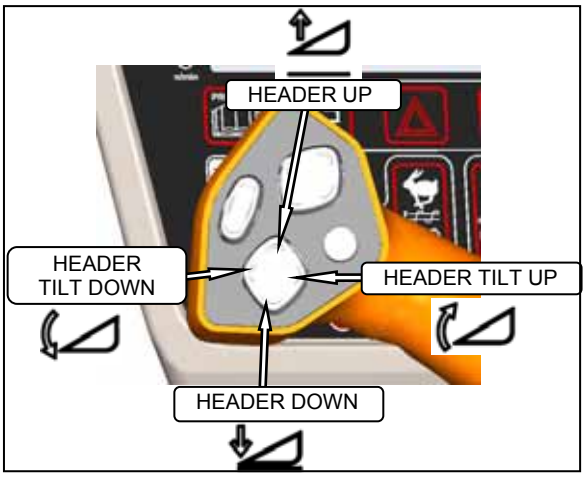
2. Locate boot (D) on lift linkage (E) and reinstall pin (C). Pin may be installed from either side of boot.
3. Secure pin (A) with hairpin.
4. Repeat for opposite side.



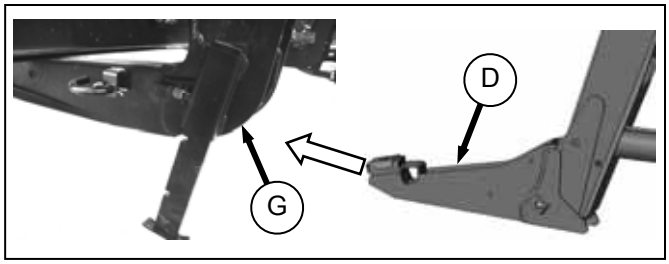
c. Remove hairpin on pins (F) and remove pins from header legs.

CAUTION

Check to be sure all bystanders have cleared the area.

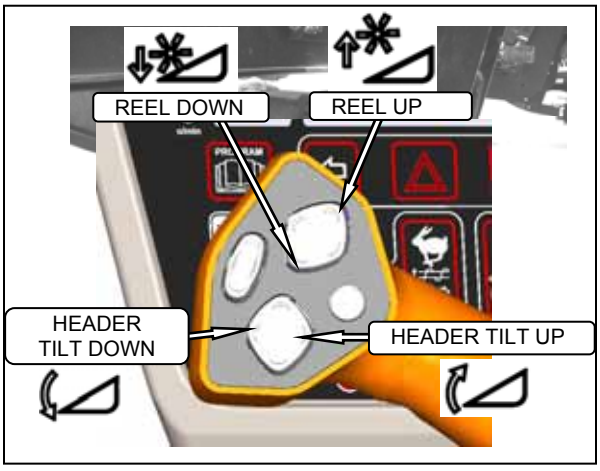


d. Start the engine and activate HEADER DOWN button on the GSL to fully retract header lift cylinders.



e. Slowly drive windrower forward so that boots (D) enter header legs (G). Continue to drive slowly forward until lift linkages contact support plates in the header legs, and header nudges forward.

f. Check that linkages are properly engaged in header legs, contacting support plates.



g. Adjust the position of the center link cylinder with the REEL UP and REEL DOWN switches, and HEADER TILT switches on the GSL to position the hook above the header attachment pin.

(continued next page)

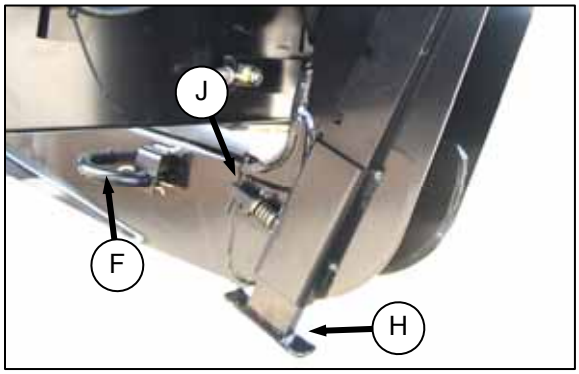
h. Lower the center link onto the header with REEL DOWN switch until it locks into position (handle is down).

i. Raise the header fully with the HEADER UP switch on the GSL. Stop engine and remove key.

DANGER

To avoid bodily injury from fall of raised header, always engage header lift cylinder stops when working on or around raised header.

j. Engage lift cylinder stops on both lift cylinders.

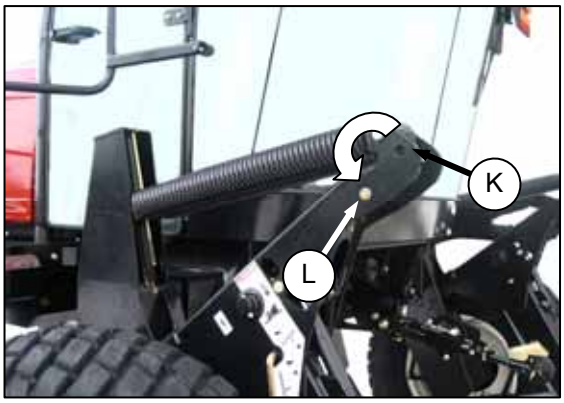


k. Install pin (F) through header leg, (engaging U-bracket in lift linkage) on both sides and secure with hairpin.

l. Raise header stand (H) to storage position by pulling pin (J) and lifting stand into uppermost position. Release pin (J).

CAUTION

Check to be sure all bystanders have cleared the area.



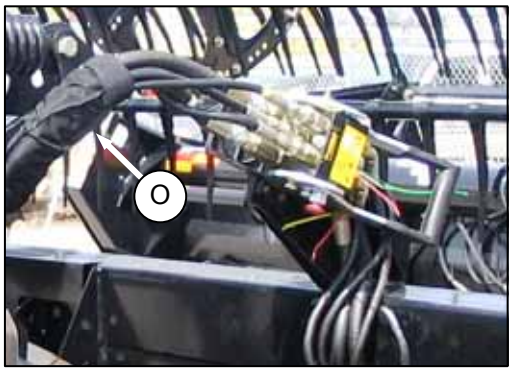
m. Remove pin from storage position (K) in linkage and insert in hole (L) to engage float springs. Secure with hairpin.

n. Disengage lift cylinder stops.

o. Start engine and push HEADER DOWN switch on GSL to lower header fully.

p. Stop engine and remove key.

q. Connect header drive hoses (M) and electrical harness (N) to header. Refer to the Draper Header Unloading and Assembly Instruction.

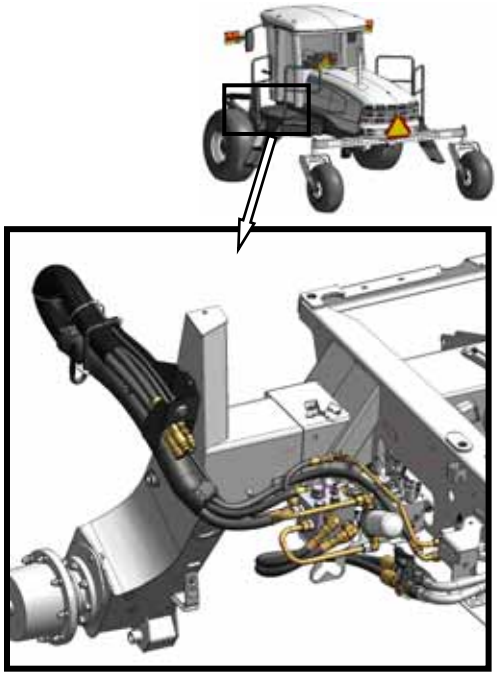


r. Connect reel hydraulics (O) at RH side of windrower. Refer to the Draper Header Unloading and Assembly Instruction.

s. Start engine, and raise and lower header and reel a few times, to allow trapped air to pass back to the reservoir.

B. HEADER ATTACHMENT - A SERIES

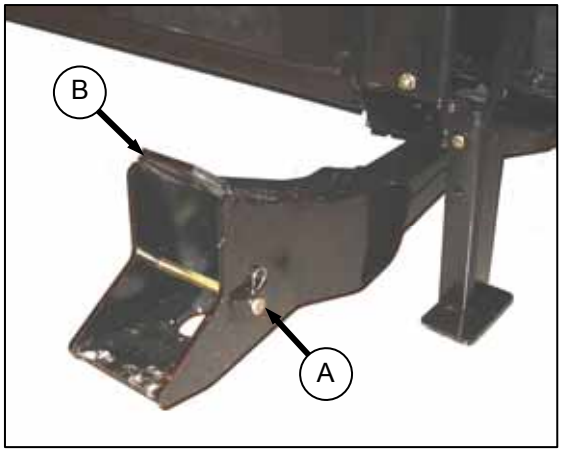
The M205 must be equipped with an auger drive basic kit and a completion kit as shown.



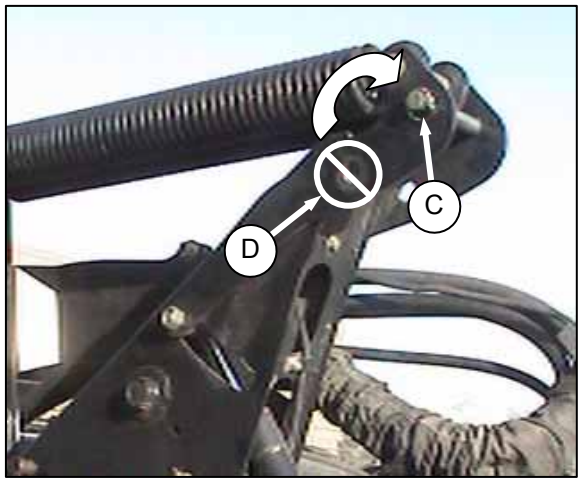
AUGER HEADER HYDRAULICS

a. If necessary, obtain the following kits from your MacDon dealer and install them in accordance with the instructions supplied with the kits.

Kit Description	Kit Number
Base Kit	B5491
Completion	B5492
Coupler	B5497



b. Remove hairpin from pin (A), and remove pin from left and right header boots (B) on header.



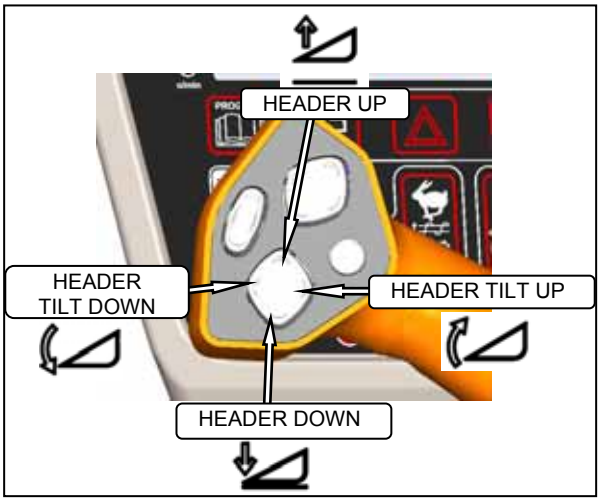
IMPORTANT

To prevent damage to the lift system when lowering header lift linkages without a header or weight box attached to windrower, ensure that float engagement pin is installed in storage location (C), and **not** installed at hole location (D).

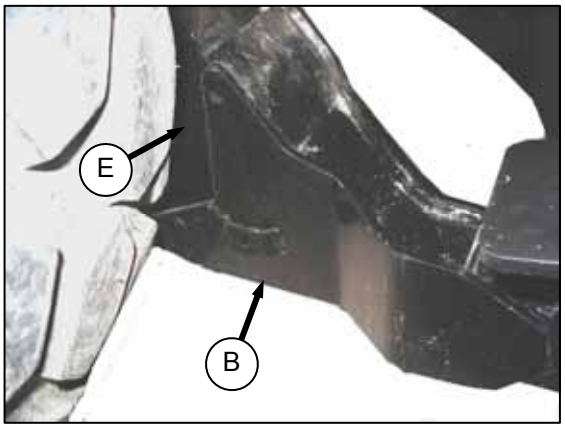
(continued next page)

CAUTION

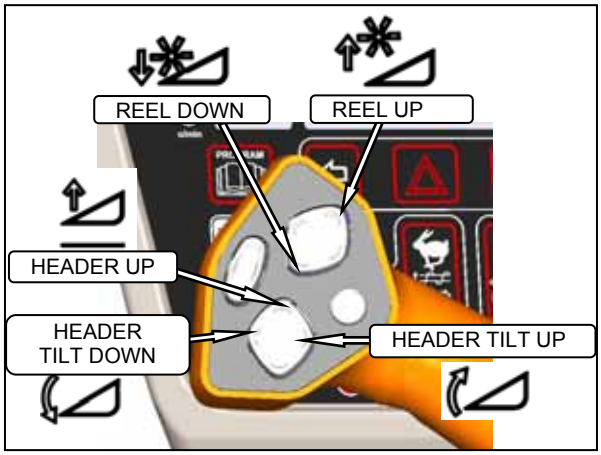
Check to be sure all bystanders have cleared the area.



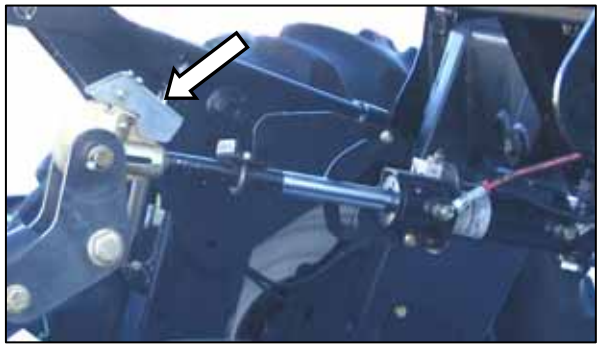
c. Start the engine and activate HEADER DOWN button on the GSL to fully retract header lift cylinders.



d. Slowly drive windrower forward so that feet (E) on windrower enter boots (B) on the header. Continue to drive slowly forward until feet engage the boots, and header nudges forward.



e. Adjust the position of the center link cylinder with the REEL UP and REEL DOWN switches, and HEADER TILT switches on the GSL to position the hook above the header attachment pin.



f. Lower the center link onto the header with REEL DOWN switch until it locks into position (handle is down).

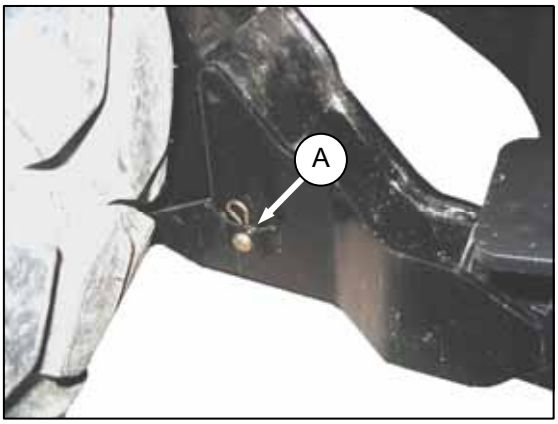
g. Raise the header fully with the HEADER UP switch on the GSL. Stop engine and remove key.

DANGER

To avoid bodily injury from fall of raised header, always engage header lift cylinder stops when working on or around raised header.

h. Engage lift cylinder stops on both lift cylinders. Refer to Section 6.4.1 Header Lift Cylinder Stops.

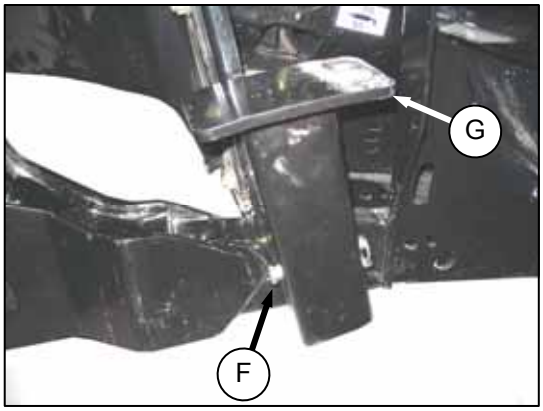
(continued next page)



i. Install pin (A) through each boot and foot and secure with hairpin.

IMPORTANT

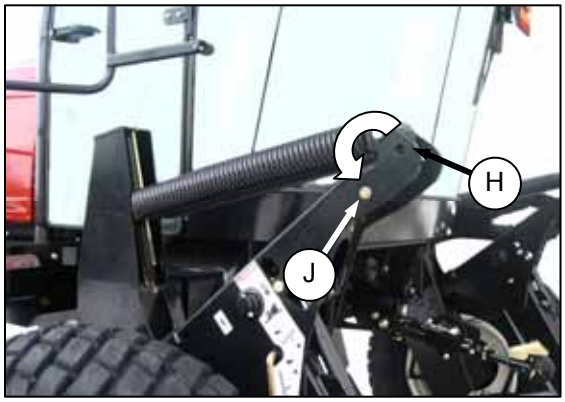
Ensure pin (A) is fully inserted and hairpin is installed behind bracket.



j. Remove lynch pin from pin (F) in stand (G).

k. Hold stand and remove pin (J).

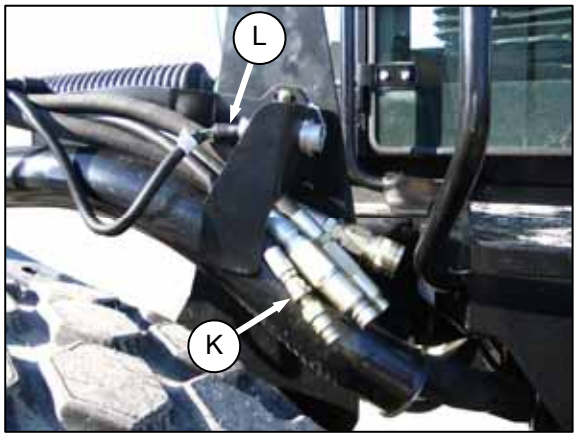
l. Reposition stand to storage position by inverting stand and re-locating on bracket as shown. Reinsert pin (F) and secure with lynch pin.



m. Remove pin (H) from storage position in linkage and insert in hole (J) to engage float springs. Secure with lynch pin.

n. Disengage lift cylinder stops.

o. Start engine, and activate HEADER DOWN switch on GSL to lower header fully. Stop engine and remove key.



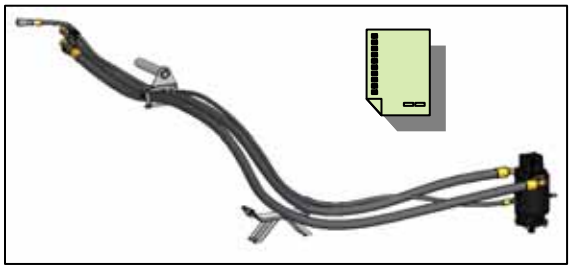
p. Connect header drive hydraulics (K) and electrical harness (L) to header. Refer to your Auger Header Unloading and Assembly Instructions.

C. HEADER ATTACHMENT - R SERIES

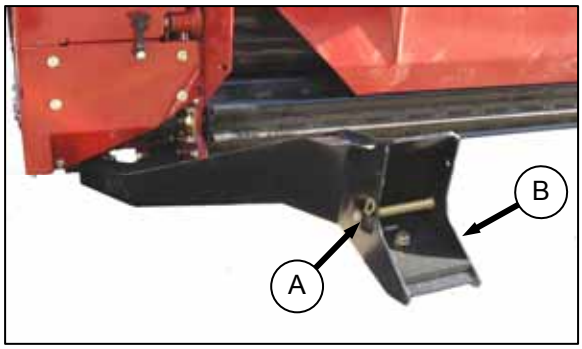
The M205 is factory equipped with hydraulics and connections to run the R-Series Rotary Disc headers.

The R85 16 and 19 foot headers are factory equipped with hydraulic connections for attachment to the windrower.

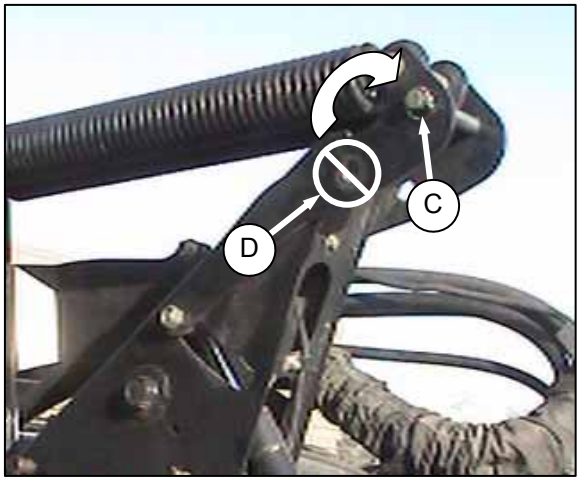
The R85 13 foot header, and the R80 13 and 16 foot headers are shipped without the motor and hoses installed, and the installation of a separate motor and hose bundle is necessary.



a. If required, obtain kit number B5456 from your MacDon dealer and install it in accordance with the instructions supplied with the kit.



b. Remove hairpin from pin (A), and remove pin from on left and right header boots (B) on header.



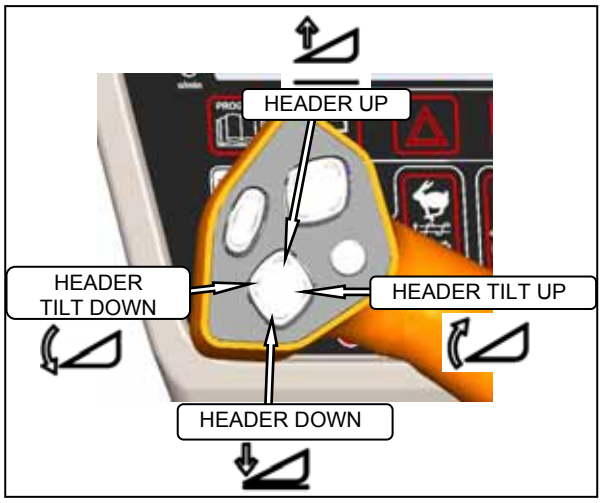
IMPORTANT

To prevent damage to the lift system when lowering header lift linkages without a header or weight box attached to windrower, ensure that float engagement pin is installed in storage location (C), and **not** installed at hole location (D).

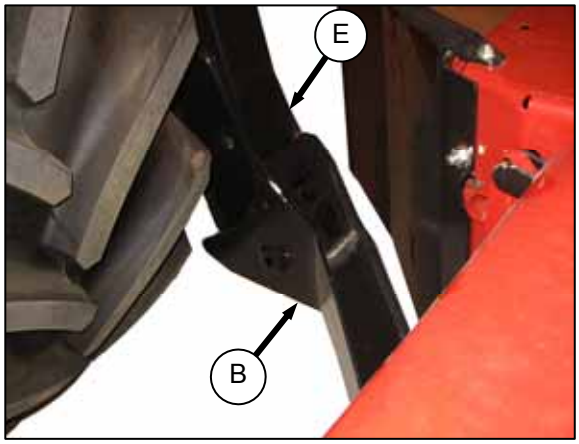
(continued next page)

CAUTION

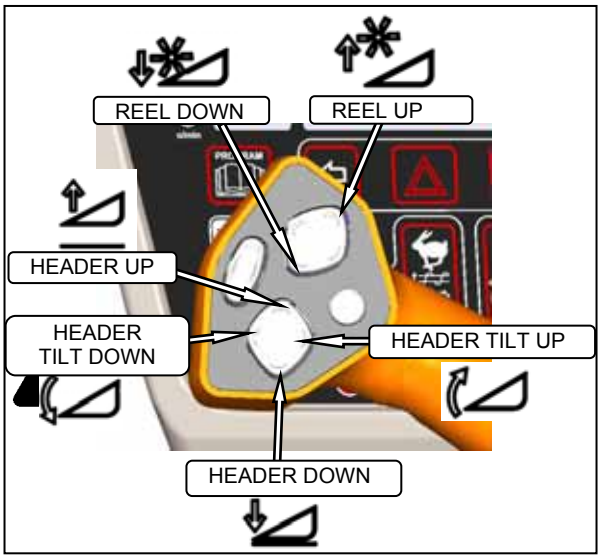
Check to be sure all bystanders have cleared the area.



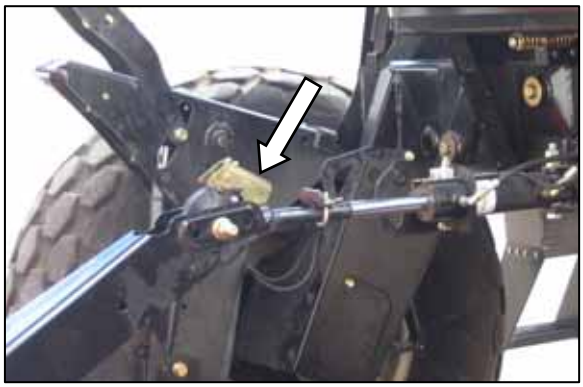
c. Start the engine and activate header down button on the GSL to fully retract header lift cylinders.



d. Slowly drive windrower forward so that feet (E) on windrower enter boots (B) on the header. Continue to drive slowly forward until feet engage the boots, and header nudges forward



e. Adjust the position of the center link cylinder with the REEL UP and REEL DOWN switches, and HEADER TILT switches on the GSL to position the hook above the header attachment pin.



f. Lower the center link onto the header with REEL DOWN switch until it locks into position (handle is down).

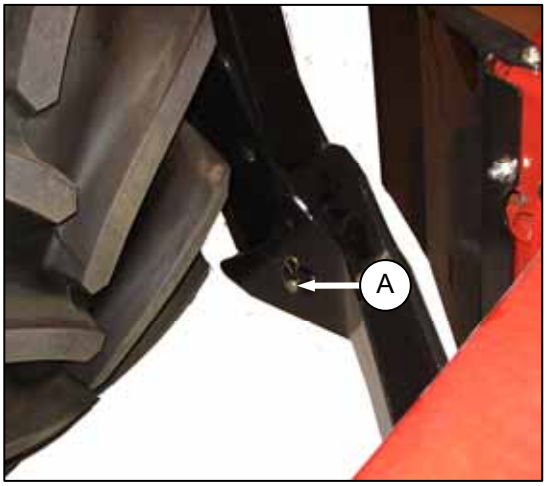
g. Raise the header fully with the HEADER UP switch on the GSL. Stop engine and remove key.

DANGER

To avoid bodily injury from fall of raised header, always engage header lift cylinder stops when working on or around raised header.

h. Engage lift cylinder stops on both lift cylinders.

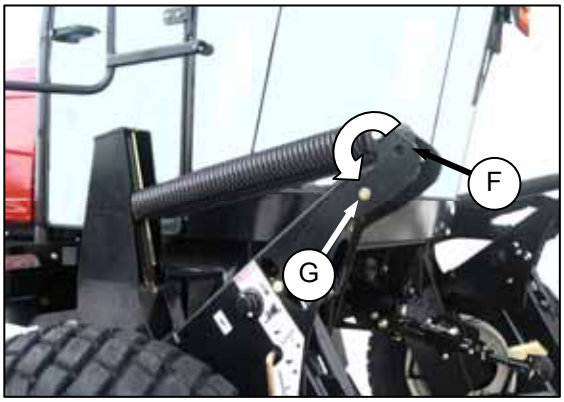
(continued next page)



i. Install pin (A) through each boot and foot and secure with hairpin.

IMPORTANT

Ensure pin (A) is fully inserted and hairpin is installed behind bracket.



j. Remove pin (F) from storage position in linkage and insert in hole (G) to engage float springs. Secure with hairpin.

k. Disengage lift cylinder stops.

l. Start engine, and activate HEADER DOWN switch on GSL to lower header fully. Stop engine and remove key.

m. Connect header drive hydraulics and electrical harness to header. Refer to your Rotary Disc Header Unloading and Assembly Instructions.

STEP 10. LUBRICATE MACHINE

Recommended Lubricant

SPEC	DESCRIPTION	USE
SAE Multi-Purpose	High Temp. Extreme Pressure (EP2) Performance With 1% Max Molybdenum Disulphide (NLGI Grade 2) Lithium Base	As Required Unless Otherwise Specified

a. Wipe grease fitting with a clean cloth before greasing, to avoid injecting dirt and grit.

b. Inject grease through fitting with grease gun until grease overflows fitting, except where noted.

c. Leave excess grease on fitting to keep out dirt.

d. Replace any loose or broken fittings immediately.

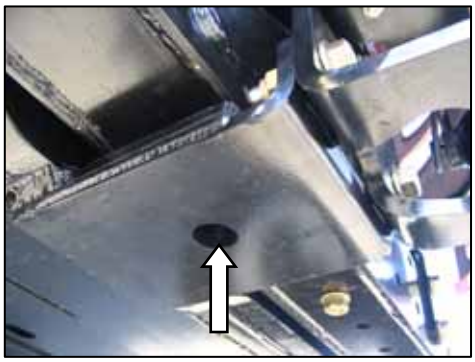
e. If fitting will not take grease, remove and clean thoroughly. Also clean lubricant passageway. Replace fitting if necessary.

f. Refer to the following illustrations for identifying the various locations that require lubrication.

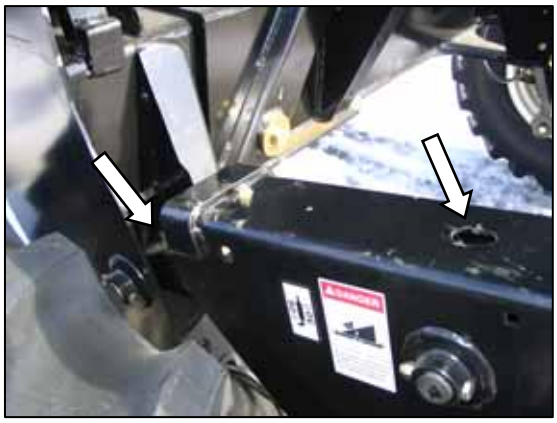
(continued next page)

Lubrication Points

High Temp. Extreme Pressure (EP2) Performance With 1% Max Molybdenum Disulphide (NLGI Grade 2).Lithium Base

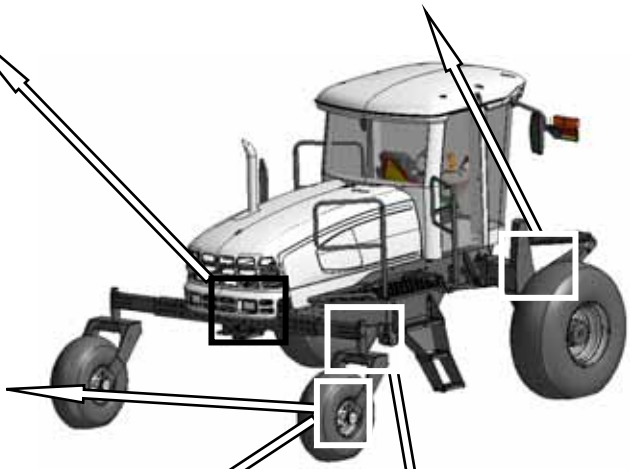


WALKING BEAM PIVOT)



TOP LINK - TWO FITTINGS (BOTH SIDES)

FORMED CASTER WHEEL BEARING 1 PLACE (BOTH WHEELS)



FORKED CASTER SPINDLE BEARINGS TWO PLACES (BOTH WHEELS)

CASTER PIVOT (BOTH SIDES)

STEP 11. PROGRAM CAB DISPLAY MODULE (CDM)

The monitoring system requires programming for each header and the **header must be attached to the Windrower** so that the CDM recognizes the type of header.

Programming the system may be accomplished with or without the engine running. If the engine is running, the transmission must be in neutral. If the engine is not running, the ignition must be on.

Exit programming mode at any time by pressing the PROGRAM switch or by turning off the ignition.

The system only needs to be programmed once for each header. The operator may make changes later on to a particular setting to suit windrowing conditions or modifications to the machine. Most functions have been pre-programmed at the factory but can be changed by the operator if required.

The following functions can be programmed by the dealer provided he has the applicable information from the operator and the header is installed:

- **DWA INSTALLED**
- **HDR CUT WIDTH**
- **HAY CONDITIONER INSTALLED**
- **CALIBRATE SENSORS**

Proceed as follows to program the CDM:

IMPORTANT

Header must be attached to the Windrower so that the CDM can detect the type of header (Header ID), and adjust the programming mode accordingly.

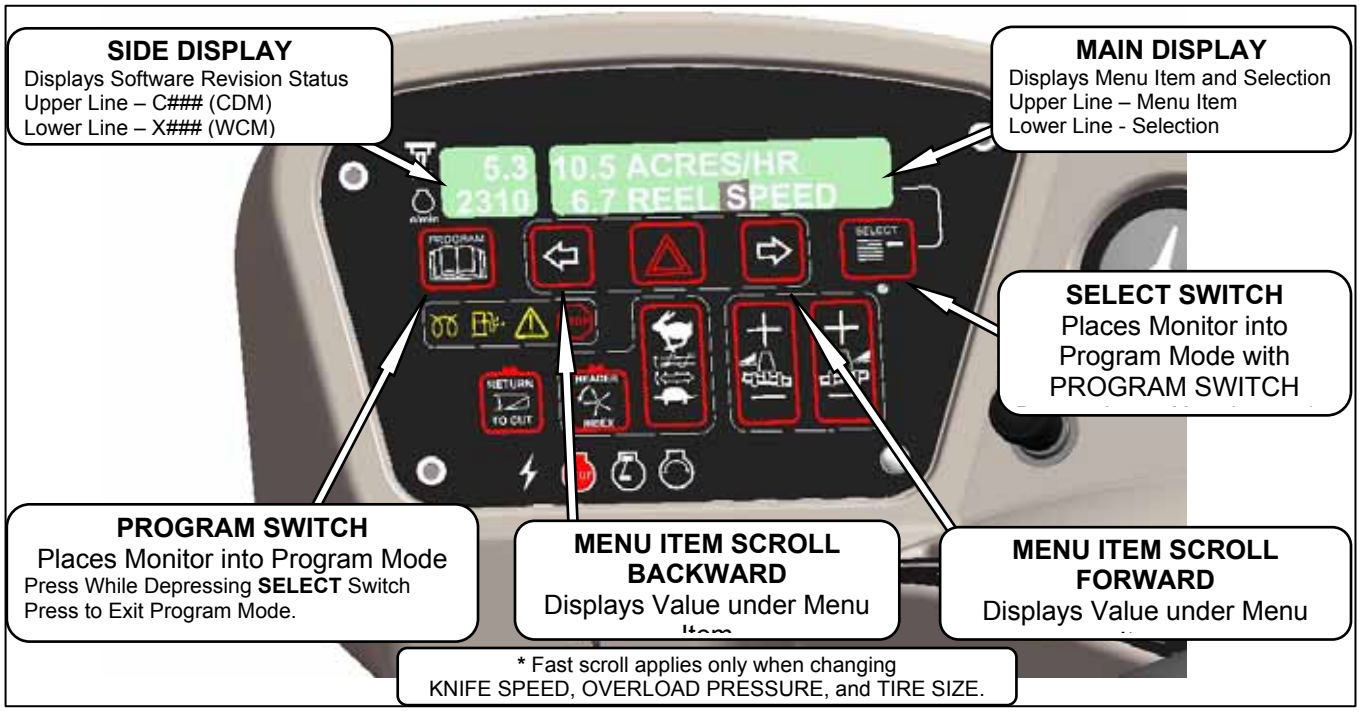
a. Turn ignition key to RUN, or start the engine.
b. Press PROGRAM and SELECT switches together on CDM to enter programming mode. Header ID code is displayed.
c. Press SELECT. TRACTOR SETUP? is displayed.
d. Press ⇨. SET KNIFE SPEED? is displayed.
e. Press SELECT until DWA INSTALLED? is displayed.
f. Press ⇦ or ⇨.
g. Press SELECT to advance to the next L1 item.
h. Press PROGRAM to exit programming mode.
i. Refer to Detailed Programming Instructions on following pages.

NOTE

The functions requiring programming are highlighted with ▭ in the Programming Instructions.

NOTE

If necessary, refer to the M205 Windrower Operator's Manual for programming CDM to specific crop types and conditions.

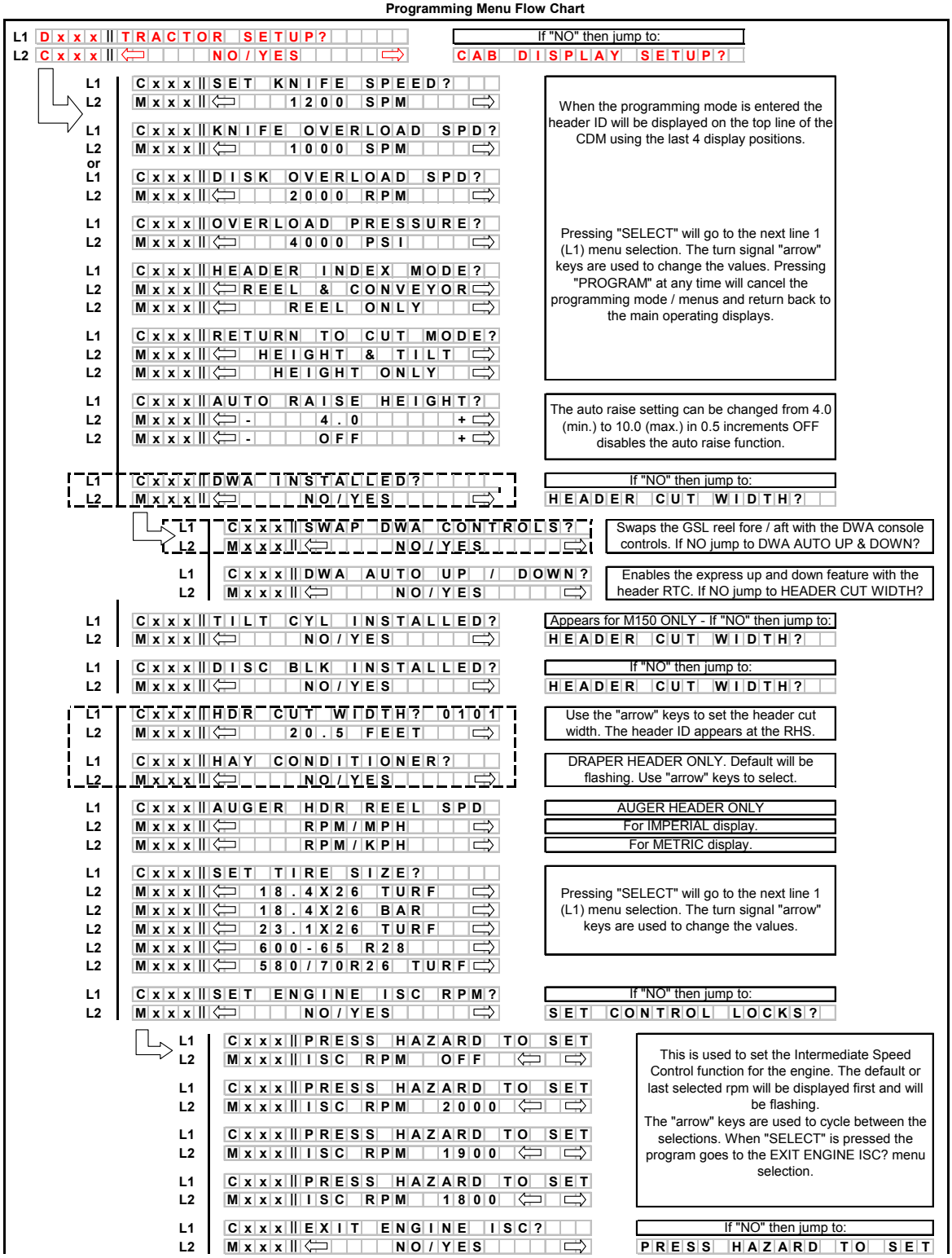


DETAILED PROGRAMMING INSTRUCTIONS

IMPORTANT: ENGINE MUST BE RUNNING TO CALIBRATE SENSORS

NOTE: The software version code Mxxx in the following charts will show as Xxxx on the CDM for the M205 windrower.

Programming Menu Flow Chart



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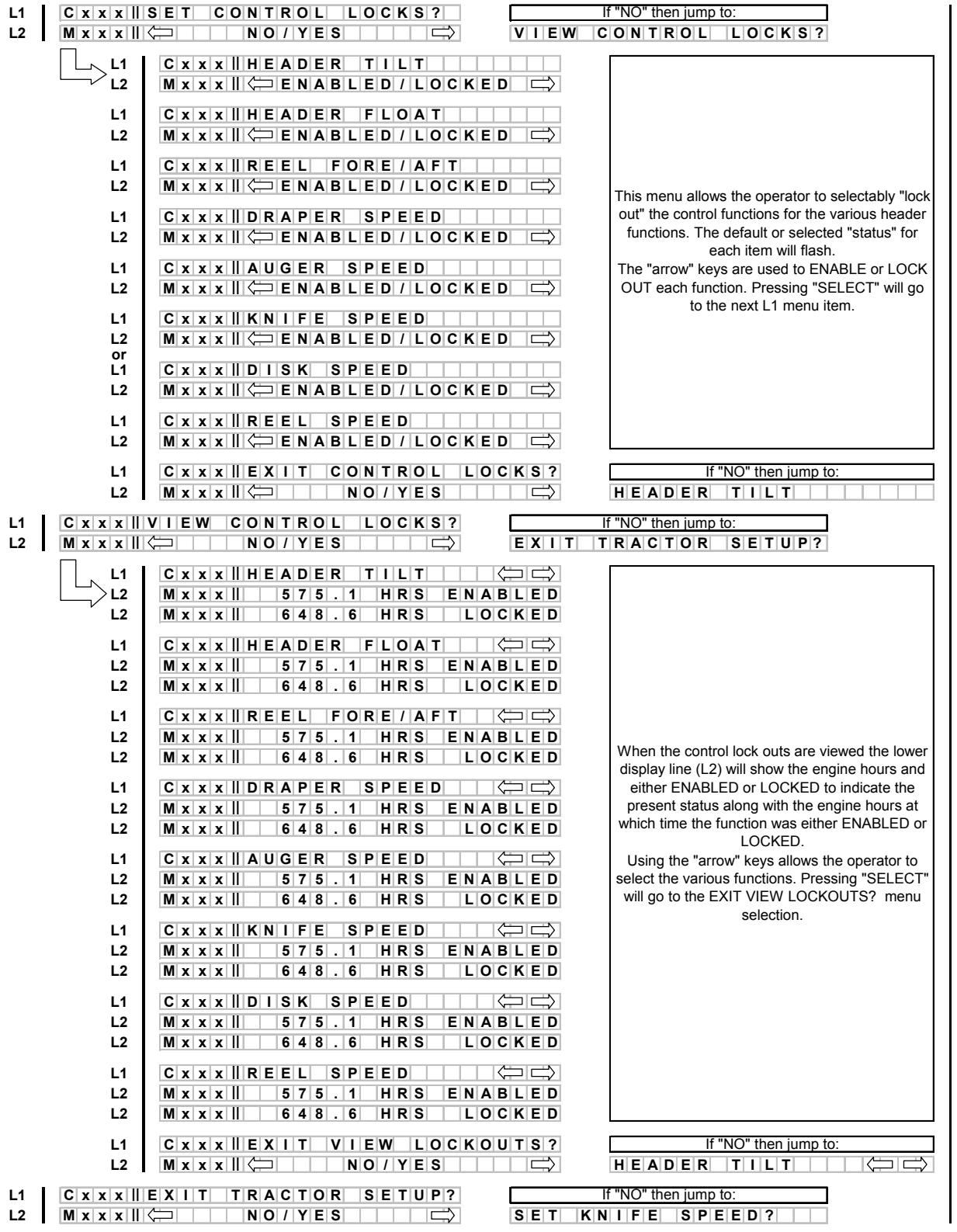

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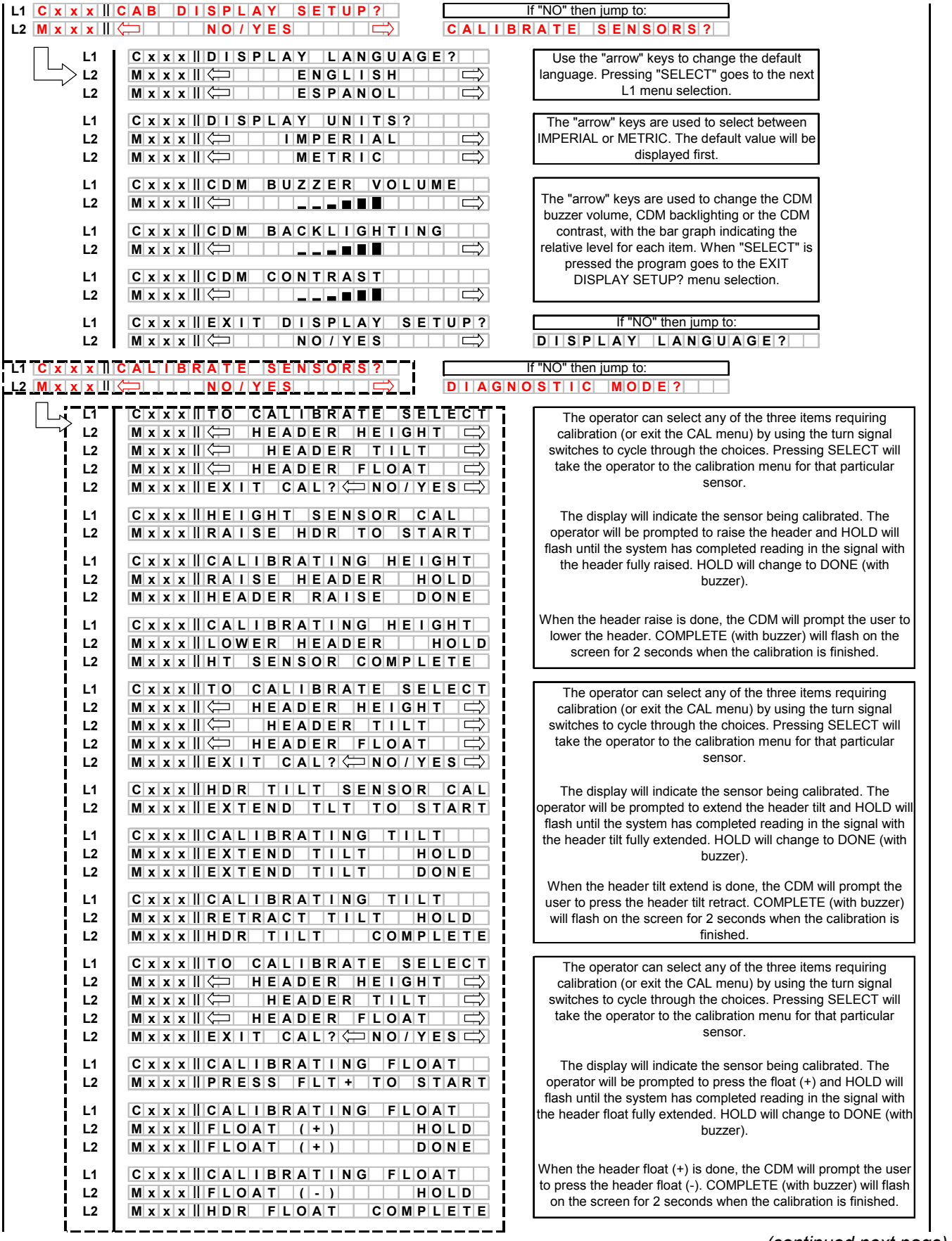
UNLOADING AND ASSEMBLY



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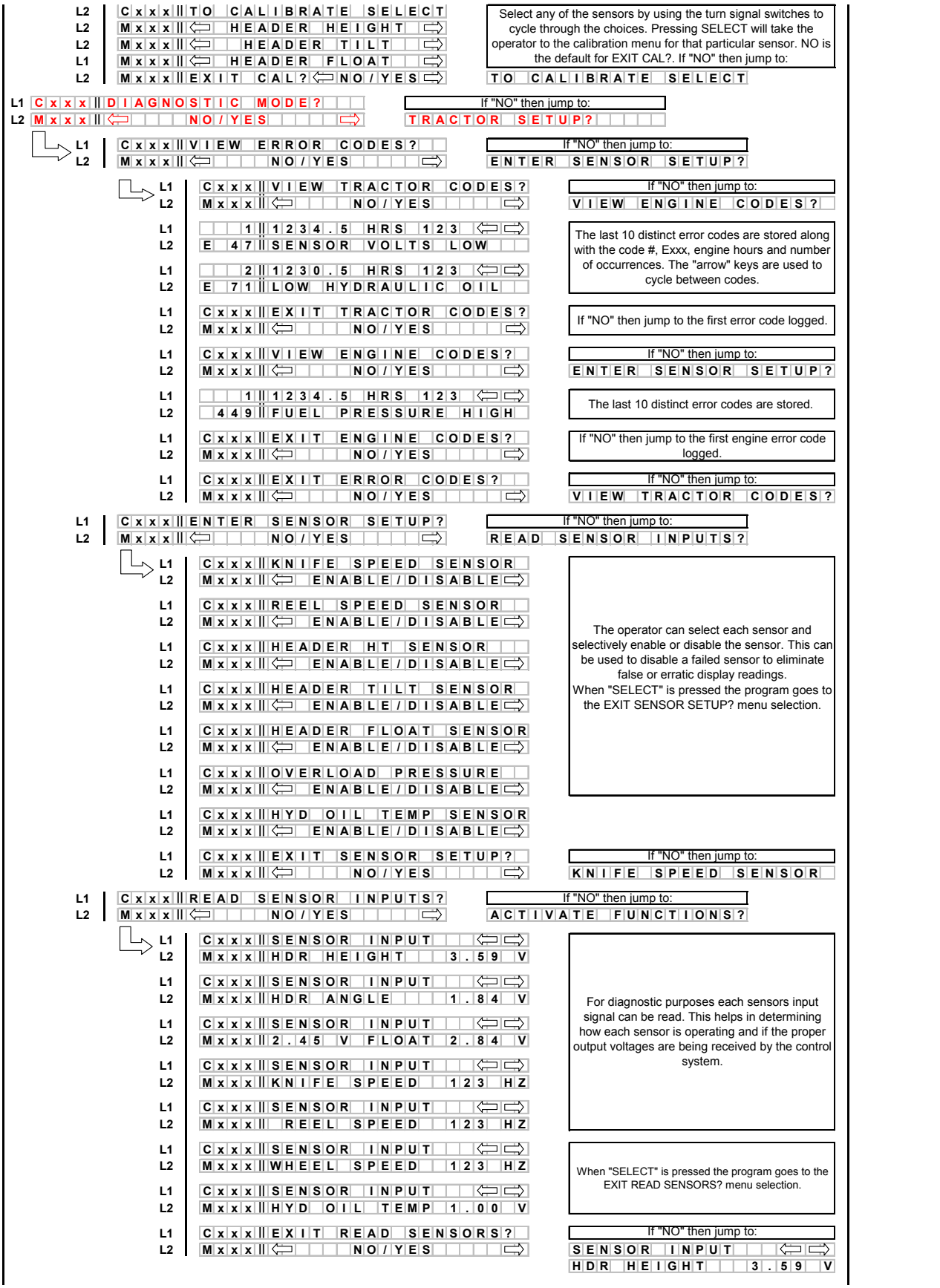

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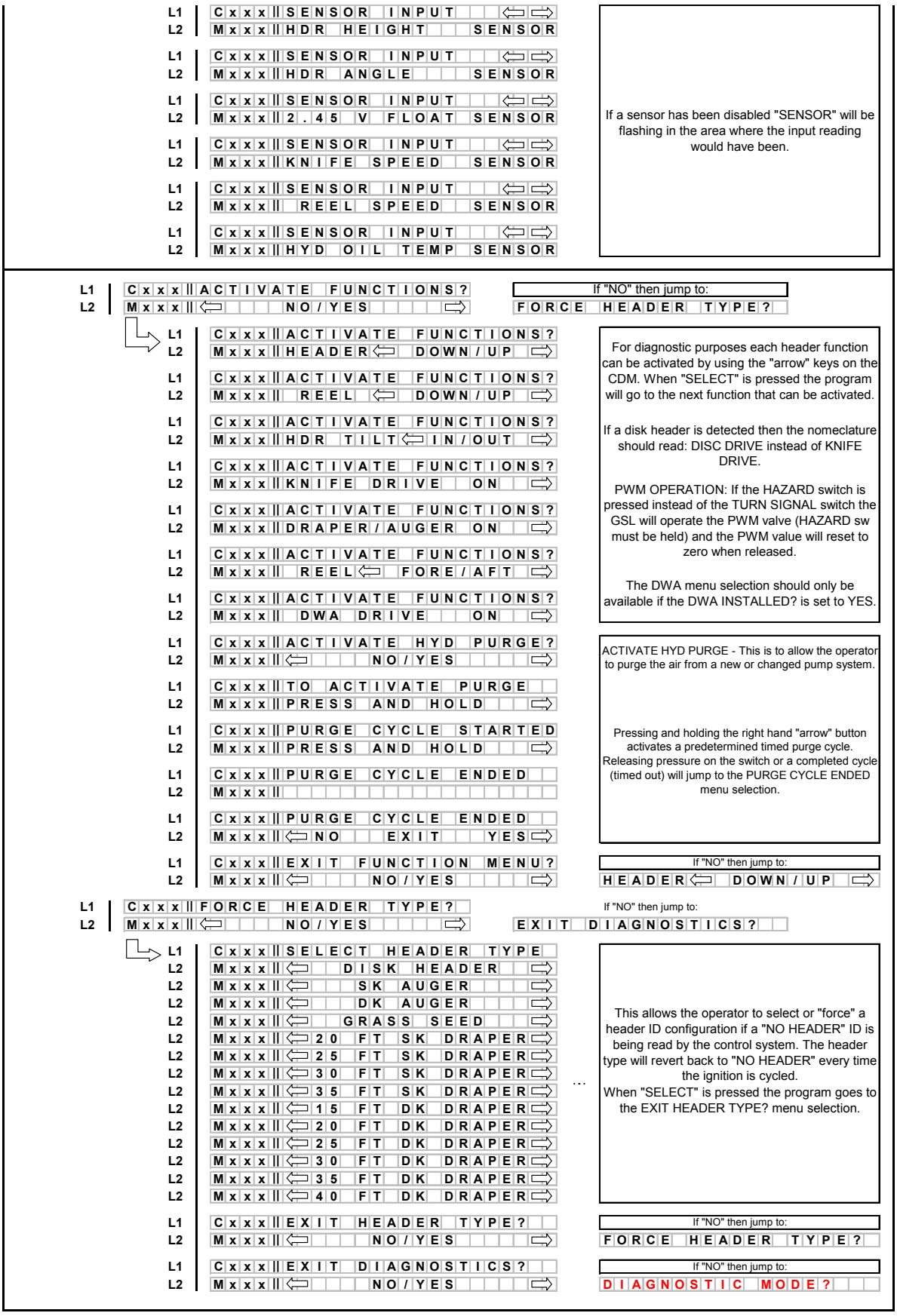

L1 Cxxx SENSOR INPUT
L2 Mxxx HDR HEIGHT SENSOR
L1 Cxxx SENSOR INPUT
L2 Mxxx HDR ANGLE SENSOR
L1 Cxxx SENSOR INPUT
L2 Mxxx 2.45 V FLOAT SENSOR
L1 Cxxx SENSOR INPUT
L2 Mxxx KNIFE SPEED SENSOR
L1 Cxxx SENSOR INPUT
L2 Mxxx REEL SPEED SENSOR
L1 Cxxx SENSOR INPUT
L2 Mxxx HYD OIL TEMP SENSOR
If a sensor has been disabled "SENSOR" will be flashing in the area where the input reading would have been.
L1 Cxxx ACTIVATE FUNCTIONS?
L2 Mxxx NO / YES
If "NO" then jump to:
FORCE HEADER TYPE?
L1 Cxxx ACTIVATE FUNCTIONS?
L2 Mxxx HEADER DOWN / UP
L1 Cxxx ACTIVATE FUNCTIONS?
L2 Mxxx REEL DOWN / UP
L1 Cxxx ACTIVATE FUNCTIONS?
L2 Mxxx HDR TILT IN / OUT
L1 Cxxx ACTIVATE FUNCTIONS?
L2 Mxxx KNIFE DRIVE ON
L1 Cxxx ACTIVATE FUNCTIONS?
L2 Mxxx DRAPER / AUGER ON
L1 Cxxx ACTIVATE FUNCTIONS?
L2 Mxxx REEL FORE / AFT
L1 Cxxx ACTIVATE FUNCTIONS?
L2 Mxxx DWA DRIVE ON
For diagnostic purposes each header function can be activated by using the "arrow" keys on the CDM. When "SELECT" is pressed the program will go to the next function that can be activated.
If a disk header is detected then the nomeclature should read: DISC DRIVE instead of KNIFE DRIVE.
PWM OPERATION: If the HAZARD switch is pressed instead of the TURN SIGNAL switch the GSL will operate the PWM valve (HAZARD sw must be held) and the PWM value will reset to zero when released.
The DWA menu selection should only be available if the DWA INSTALLED? is set to YES.
L1 Cxxx ACTIVATE HYD PURGE?
L2 Mxxx NO / YES
L1 Cxxx TO ACTIVATE PURGE
L2 Mxxx PRESS AND HOLD
L1 Cxxx PURGE CYCLE STARTED
L2 Mxxx PRESS AND HOLD
L1 Cxxx PURGE CYCLE ENDED
L2 Mxxx
L1 Cxxx PURGE CYCLE ENDED
L2 Mxxx NO EXIT YES
ACTIVATE HYD PURGE - This is to allow the operator to purge the air from a new or changed pump system.
Pressing and holding the right hand "arrow" button activates a predetermined timed purge cycle. Releasing pressure on the switch or a completed cycle (timed out) will jump to the PURGE CYCLE ENDED menu selection.
L1 Cxxx EXIT FUNCTION MENU?
L2 Mxxx NO / YES
If "NO" then jump to:
HEADER DOWN / UP
L1 Cxxx FORCE HEADER TYPE?
L2 Mxxx NO / YES
If "NO" then jump to:
EXIT DIAGNOSTICS?
L1 Cxxx SELECT HEADER TYPE
L2 Mxxx DISK HEADER
L2 Mxxx SK AUGER
L2 Mxxx DK AUGER
L2 Mxxx GRASS SEED
L2 Mxxx 20 FT SK DRAPER
L2 Mxxx 25 FT SK DRAPER
L2 Mxxx 30 FT SK DRAPER
L2 Mxxx 35 FT SK DRAPER
L2 Mxxx 15 FT DK DRAPER
L2 Mxxx 20 FT DK DRAPER
L2 Mxxx 25 FT DK DRAPER
L2 Mxxx 30 FT DK DRAPER
L2 Mxxx 35 FT DK DRAPER
L2 Mxxx 40 FT DK DRAPER
This allows the operator to select or "force" a header ID configuration if a "NO HEADER" ID is being read by the control system. The header type will revert back to "NO HEADER" every time the ignition is cycled.
When "SELECT" is pressed the program goes to the EXIT HEADER TYPE? menu selection.
L1 Cxxx EXIT HEADER TYPE?
L2 Mxxx NO / YES
If "NO" then jump to:
FORCE HEADER TYPE?
L1 Cxxx EXIT DIAGNOSTICS?
L2 Mxxx NO / YES
If "NO" then jump to:
DIAGNOSTIC MODE?

STEP 12. PERFORM PRE-DELIVERY CHECKS

WARNING

Stop windrower engine and remove key before making adjustments to machine. A child or even a pet could engage the drive.

a. Perform the final checks and adjustments as listed on the "Pre-Delivery Checklist" (yellow sheet) to ensure the machine is field-ready. Refer to the following pages for detailed instructions as indicated on the checklist.

b. The completed checklist should be retained either by the Operator or the Dealer.

A. FINAL DRIVE LUBRICANT LEVEL

a. Rotate wheel so that one of the plugs is horizontally aligned with the center of the hub.

b. Remove the plug. The oil should be visible through the hole or slightly running out.

B. TIRE PRESSURES AND BALLAST REQUIREMENTS

I. TIRE PRESSURES

Measure tire pressure with a gauge.

- Bar - 32 psi (221 kPa)
- Turf - 20 psi (138 kPa)
- Caster - 10 psi (69 kPa)

II. BALLAST REQUIREMENTS

Fluid ballasting of rear caster tires is recommended to provide adequate machine stability when using large headers on the Windrower.

Also, the stability of machine varies with different attachments, windrower options, terrain and Operator's driving technique.

Ballast capability per tire is at a maximum fill of 75%, or when fluid is level with valve stem when the stem is positioned at the "12 o'clock" position.

Fluid can be added to any level up to maximum fill, and always add an equal amount of fluid on both sides.

TIRE SIZE	FLUID PER TIRE AT 75% FILL U.S. Gal. (Liters)	TOTAL WEIGHT OF BOTH TIRES lb (kg) *
7.5X16 (A)	10 (38)	200 (91)
10X16 (B)	18 (69)	380 (170)
16.5X16.1 (C)	41 (158)	830 (377)

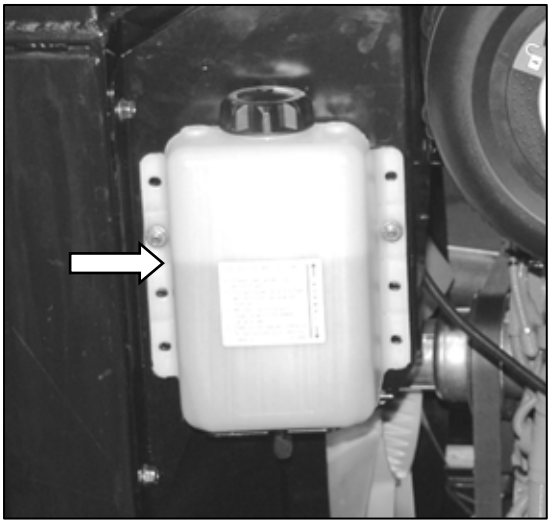
* Weights are given for typical calcium chloride and water mixtures. Weight is reduced by 20% if only water is used (for areas that do not require anti-freeze protection).

(continued next page)

HEADER DESCRIPTION		RECOMMENDED BALLAST				RECOMMENDED TIRE SIZE
		LEVEL GROUND		HILLS		
TYPE	SIZE	PER TIRE	BOTH TIRES	PER TIRE	BOTH TIRES	
		U.S. Gal. (Liters)	lb (kg) *	U.S. Gal. (Liters)	lb (kg) *	
A, D, R Series All Options	25' and Down	0	0	0	0	A,B,C
D Series	30' Single or Split Reel W/O Conditioner. 35' Single Reel	0	0	10 (38)	200 (91)	A,B,C
	30' Split Reel. Steel Fingers & Conditioner. 35' Split Reel (5 or 6 Bat)	18 (69)	380 (170)	30 (115)	630 (288)	Level Ground – B, C Hills - C
	40'	30 (115)	630 (288)	41 (158)	830 (377)	C

** If only water is used, increase volume of water by 20% (up to maximum allowable fill per tire) to compensate.*

C. ENGINE COOLANT

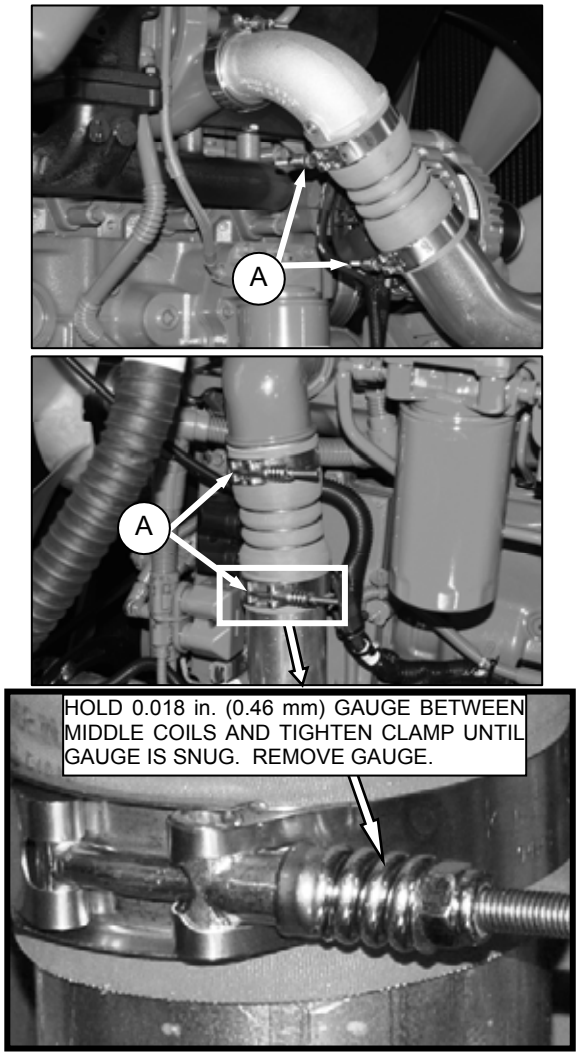


a. Check the coolant level in the coolant recovery tank. Tank should be at least half full.

b. Check coolant concentration in the radiator. Coolant shall be good for temperatures of -30°F (-34°C).

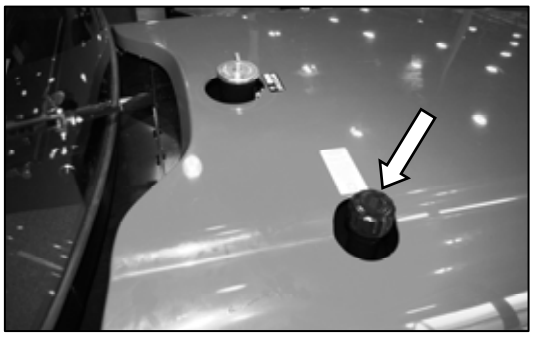
D. AIR CLEANER

a. Check that air cleaner cap is firmly attached, and that all clamps are secure.

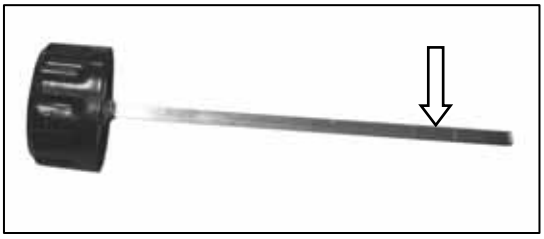


b. Check spring clamps (A) on charge air cooling duct connections (at turbocharger outlet, engine intake, and inside cooling box).

E. HYDRAULIC OIL LEVEL



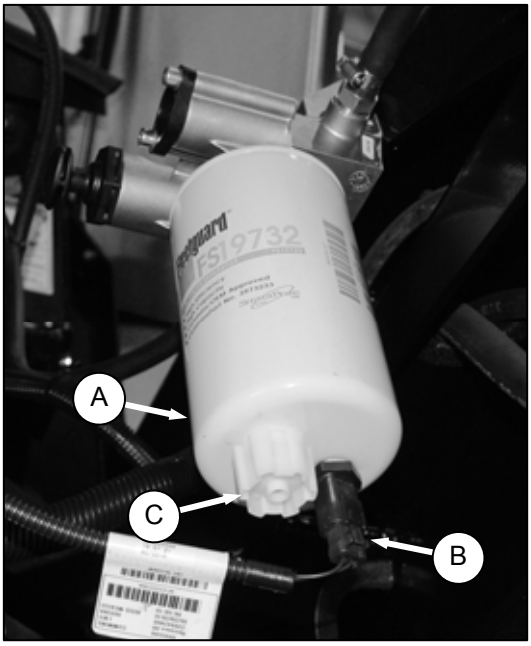
a. Turn filler cap counter-clockwise to unlock cap, and remove dipstick.



b. Check that level is between LOW and FULL marks.

c. Reinstall dipstick, and turn clockwise to lock cap.

F. FUEL SEPARATOR

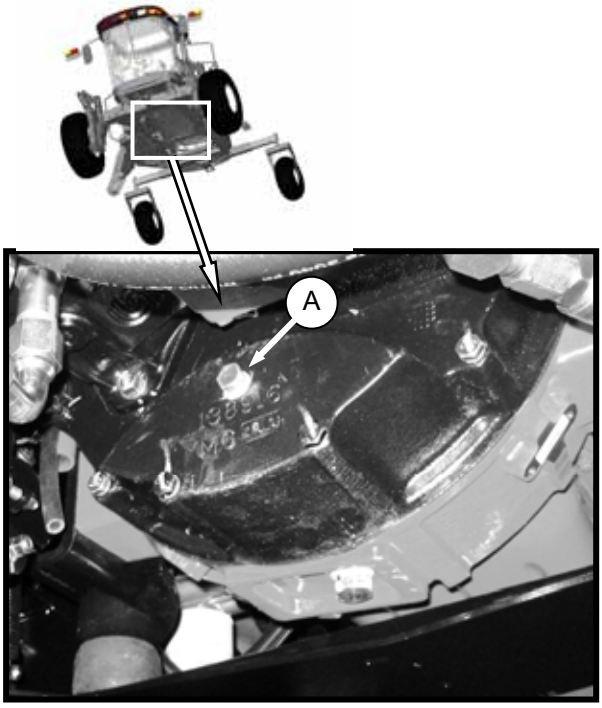


A fuel water separator is incorporated into the primary fuel filter (A). The separator is equipped with a sensor (B) that detects water in the fuel and alerts the operator on the CDM, and a drain (C).

Drain the water and sediment as follows from the separator daily, or at any time the CDM Water in Fuel (WIF) light illuminates.

a. Place a container under filter drain (C).
b. Turn drain valve by hand 1½ to 2 turns counter clockwise, until draining occurs.
c. Drain the filter sump of water and sediment until clear fuel is visible. Clean as necessary.
d. Turn the valve clockwise to close the drain (C).
e. Safely dispose of fluid.

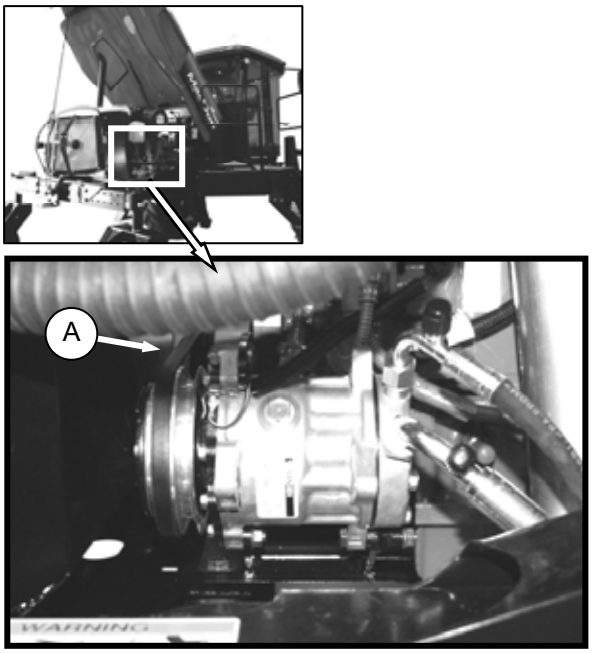
G. GEAR BOX LUBRICANT LEVEL



a. Remove plug (A). The lubricant should be visible through the hole, or slightly running out.
b. Replace plug, and tighten.

H. A/C COMPRESSOR BELT

a. Tension on A/C compressor belt (A) should be such that a force of 8 to 12 lbf (35 - 55 N) deflects the belt 3/16 inch (5 mm) at mid-span.



I. PERFORM SAFETY SYSTEM CHECKS

CAUTION

Check to be sure all bystanders have cleared the area.

A properly functioning system should operate as follows:

- The starter should engage ONLY when the GSL is in N-DETENT, steering wheel locked in the CENTER position, and the header drive switch is in the OFF position.
- Under the above conditions, the brake should engage, and the machine should not move after engine start-up.
- The steering wheel should not lock with the engine running, and the GSL is out of the N-DETENT.
- The machine should not move with the engine running, and with the steering wheel still centered, when the GSL is pulled straight out of N-DETENT (not in forward or reverse).

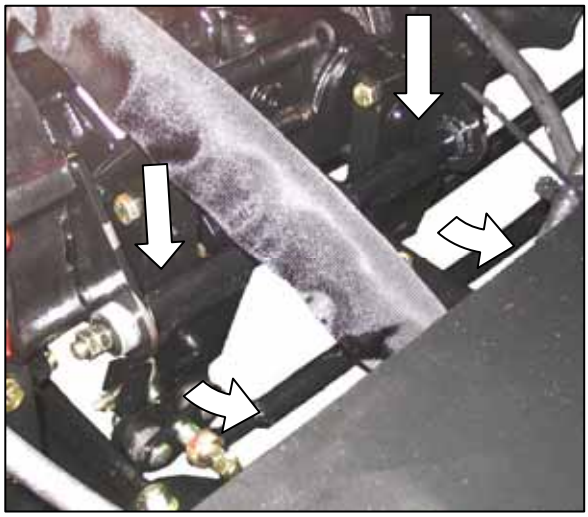
If the system does not function as described above, refer to the Technical Service Manual.

a. With the engine shut down and the header drive switch engaged, try to start the engine. The CDM will display “HEADER ENGAGED” on the upper line, and “DISENGAGE HEADER’ on the lower line.

   If the engine turns over, the system requires adjustment. Refer to the Technical Service Manual.

b. With the engine shut down, do the following:

   1. Open engine compartment hood.



   2. Pry the steering interlock away from pintle arms by inserting a wedge or pry bar between one of the interlock channels and pintle arm.
   3. Insert a wood block approximately ¾ inch (19 mm) thick between the other channel and pintle arm, so that the interlock channel is clear of the pintle arm.
   4. Turn the steering wheel off center, and move the GSL in N-DETENT.
   5. Try to start the engine. The CDM will flash “CENTER STEERING”, accompanied by a short beep with each flash, and the engine should not turn over.

      If the engine turns over, the system requires adjustment. Refer to the Technical Service Manual.

   6. Remove key.
   7. Remove wood block inserted at step 3 above and close hood.

CAUTION

Check to be sure all bystanders have cleared the area.

c. With the engine shut down, steering wheel centered, and the GSL in Neutral but not in N-DETENT;

   1. Try to start the engine. The CDM will flash “CENTER STEERING” on the upper line, and “PLACE GSL INTO N” on the lower line accompanied by a short beep with each flash, and the engine should not turn over.

      If the engine turns over, the system requires adjustment. Refer to the Technical Service Manual.

d. With the engine shut down, steering wheel centered, GSL in N-DETENT, operator’s station not locked;

   1. Try to start the engine. Engine will crank but will not start. The CDM will display “SEAT BASE NOT LOCKED”.

      If engine starts, the system requires adjustment. Refer to the Technical Service Manual.

J. OPERATIONAL CHECKS

I. ENGINE WARNING LIGHTS

a. Turn ignition key to RUN position.

b. Single loud tone sounds, and engine warning lights illuminate briefly.

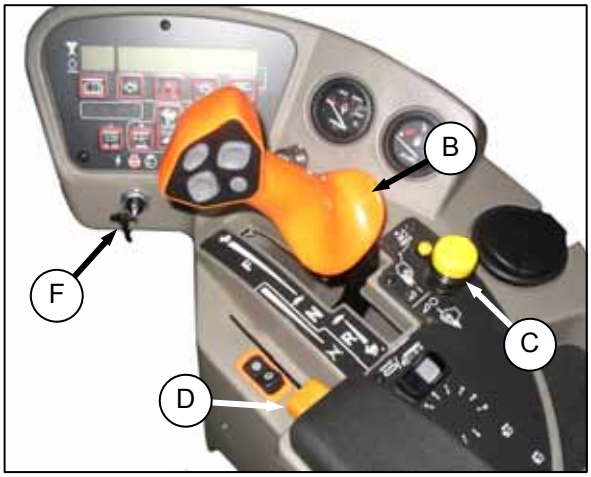
II. START ENGINE

a. Check fuel level, and if required add sufficient fuel for a 15 minute run.

b. Operator's station lock (A) must be engaged at cab-forward or engine-forward position.

c. Move GSL (B) into N-DETENT.

d. Turn steering wheel until it locks.



e. Push header drive switch (C) to off.

f. **Normal Start** - engine temperature above 60°F (16°C):

1. Set throttle (D) to start position - fully back.
2. Sound horn three times.
3. Turn ignition key (F) to RUN position.
4. Single loud tone sounds, engine warning lights illuminate briefly, and CDM displays HEADER DISENGAGED or DISENGAGE HEADER and IN PARK.

CAUTION

Check to be sure all bystanders have cleared the area.

5. Turn ignition key to START position until engine starts, and then release key. CDM displays programmed header data for 5 seconds if attached, and then returns to previous display.

IMPORTANT

Do not operate starter for longer than 15 seconds at a time.

If engine does not start, wait at least two minutes before trying again.

After the third 15 second crank attempt, allow starter to cool for 10 minutes before further cranking attempts.

If engine still does not start, refer to the following table:

PROBLEM	SOLUTION
Controls not in neutral.	Move GSL to neutral. Move steering wheel to locked position. Disengage header clutch.
Operator's station not locked.	Adjust position of Operator's station. Ensure lock is engaged.
Neutral interlock misadjusted.	Contact MacDon Dealer.
No fuel to engine.	Fill empty fuel tank. Replace clogged filter.
Old fuel in tank.	Drain tank, refill with fresh fuel.
Water, dirt or air in fuel system.	Drain, flush, fill and prime system.
Improper type of fuel.	Use proper fuel for operating conditions.
Crankcase oil too heavy.	Use recommended oil.
Low battery output.	Have battery tested. Check battery electrolyte level.
Battery disconnect switch is off.	Turn on battery switch.
Poor battery connection.	Clean and tighten loose connections.
Faulty starter.	Contact MacDon Dealer.
Wiring shorted, circuit breaker open.	Check continuity of wiring and breaker (manual reset).
Faulty injectors.	Contact MacDon Dealer.

(continued next page)

g. **Cold Start** - engine temperature below 40°F (5°C).

CAUTION

Check to be sure all bystanders have cleared the area.

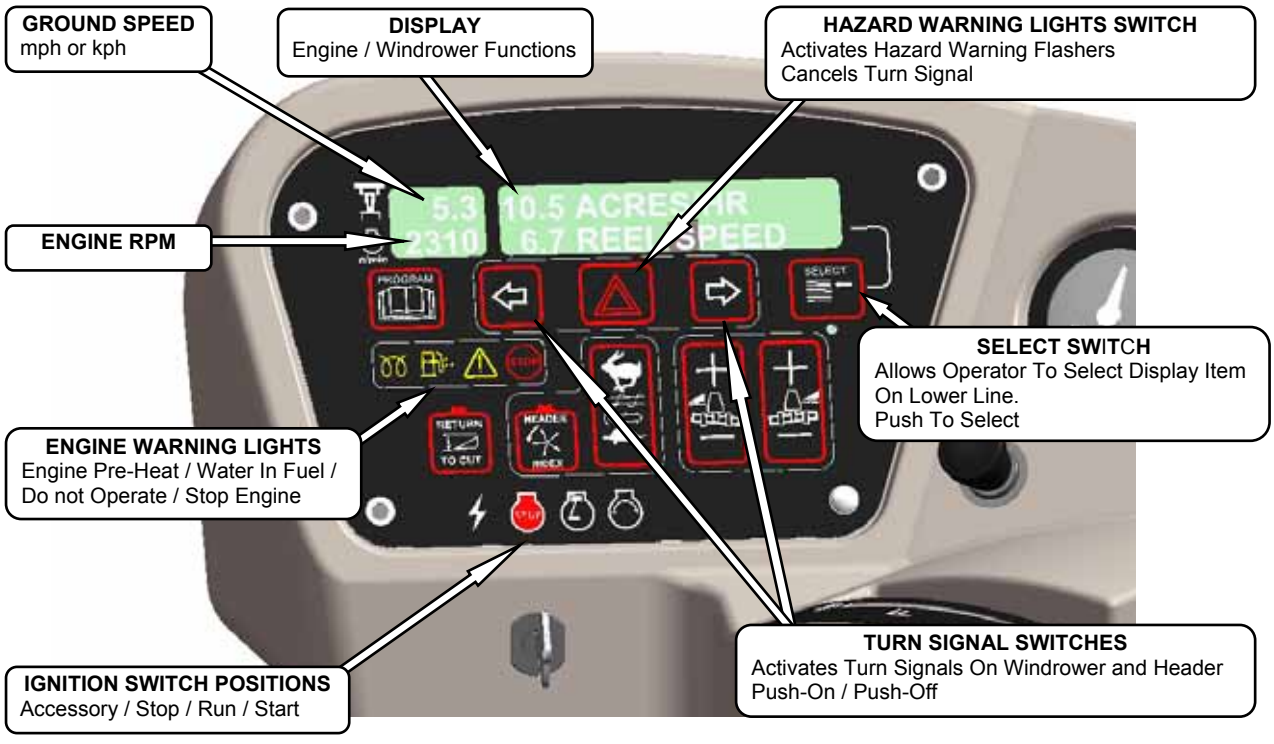
1. Follow procedure for Normal Start.
2. Engine will cycle through a period where it appears to labour until engine warms up.

NOTE

Throttle is non-responsive during this time as engine is in "WARM UP" mode. This mode will last from 30 seconds to 3 minutes depending on temperature. After engine has stabilized and idling normally, throttle becomes active.

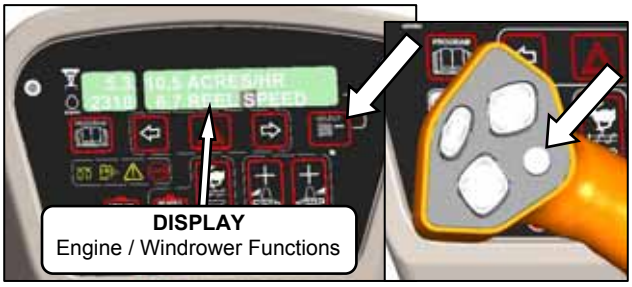
IMPORTANT

Do not operate engine above 1500 rpm until engine temperature gauge is above 100°F.



III. GAUGES AND CDM DISPLAY

a. Check engine temperature gauge and fuel gauge are working.



b. Check CDM display is working, by pushing SELECT on CDM, or SELECT button on GSL.

IV. ELECTRICAL

a. Push the SELECT button on GSL, or SELECT switch on CDM to display VOLTS. The display indicates the condition of the battery and alternator. Refer to table below.

IGNITION	ENGINE	READING	INDICATED CONDITION
On	Running	13.8 - 15.0	Normal.
		> 16.0 See Note.	Regulator Out of Adjustment.
		< 12.5 See Note.	Alternator Not Working, OR Regulator Out of Adjustment.
	Shutdown	12.0	Battery Normal.

NOTE

Display flashes voltage reading with single loud tone. Repeats every 30 minutes until condition fixed.

V. ENGINE SPEED

IDLE	MAX RPM (No Load)
1075 - 1150	2250 - 2340

a. Check engine idle and maximum rpm on CDM.

VI. OPERATOR'S PRESENCE SYSTEM CHECKS

a. With the windrower engine running, place the GSL in Neutral and turn the steering wheel until it locks.

CAUTION

Check to be sure all bystanders have cleared the area.

b. With everyone clear of the machine, engage header drive switch.

1. After header drives are running, stand up out of the seat. In approximately 5 seconds, the header should shut off.

   If not, the Operator Presence System requires adjustment. See Technical Service Manual.

NOTE

To restart the header, move the header engage switch to "OFF" position, and back to the "ON" position again.

c. With the engine running, position the GSL in Neutral and in N-DETENT;

1. Swivel the operator's station, but do not lock into position.
2. Move GSL out of N-DETENT. The engine should shut down, and the lower display will flash "LOCK SEAT BASE ---> CENTER STEERING WHEEL ---> NOT IN NEUTRAL".
3. Swivel and lock the Operator's station, and the display should return to normal.
4. If the engine does not shut down, the seat position switches require adjustment. Refer to Technical Service Manual.

d. With the Windrower moving **at less** than 5 mph (8 km/h):

1. Stand up out of the seat.
2. The CDM will flash "NO OPERATOR" on the upper line, and "ENGINE SHUTDOWN 5…4…3…2…1…0" on the lower line accompanied by a steady tone. At "0", the engine shuts down.
3. If the engine does not shut down, the Operator Presence System requires adjustment. See Technical Service Manual.

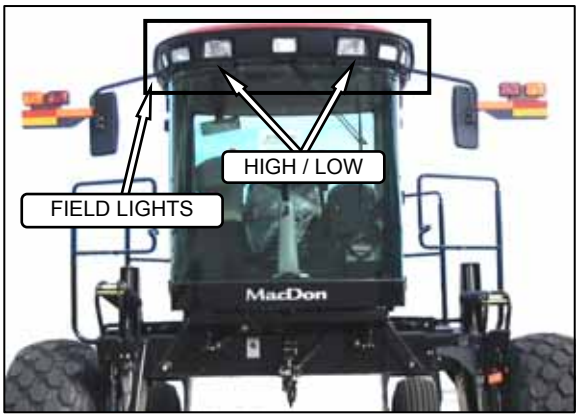
e. With the Windrower moving **at more** than 5 mph (8 km/h):

1. Stand up out of the seat.
2. The CDM beeps once, and displays "NO OPERATOR" on the lower line.
3. If not, the Operator Presence System requires adjustment. Refer to Technical Service Manual.

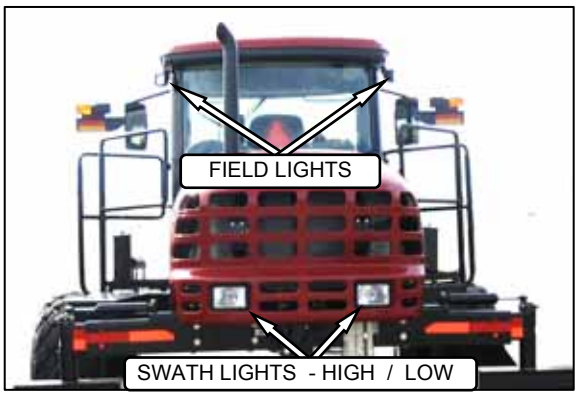
VII. EXTERIOR LIGHTS

a. Ensure operator's seat is locked in cab-forward mode.

b. Switch on FIELD lights, and check that all lights are functioning as shown below.



FRONT - CAB FWD



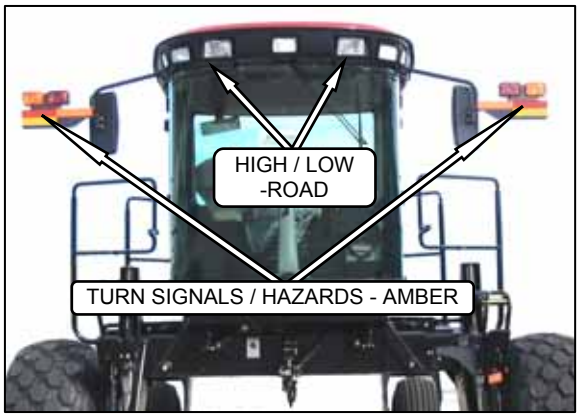
REAR - CAB FWD

c. Switch on ROAD lights, and check that all lights are functioning as shown below.

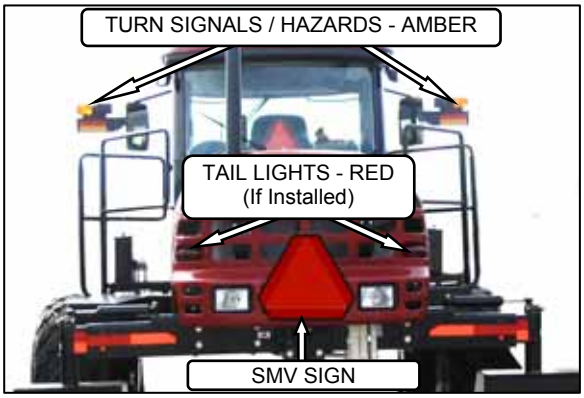
d. Activate HIGH/LOW switch, and check lights.

e. Activate turn signals and hazard warning lights with switches on CDM, and check lights.

f. Turn off lights.



FRONT - CAB FWD



REAR - CAB FWD

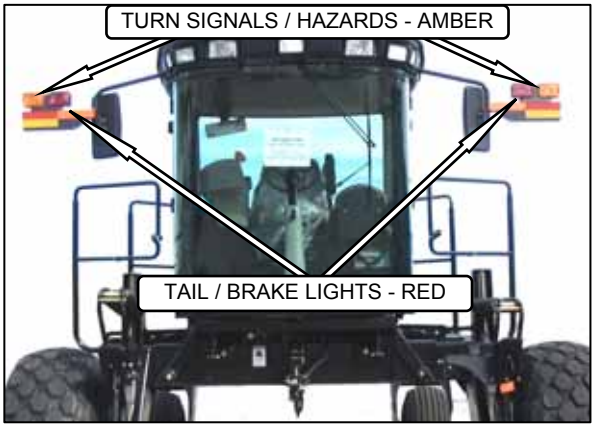
(continued next page)

g. Rotate operator's seat to engine-forward mode.

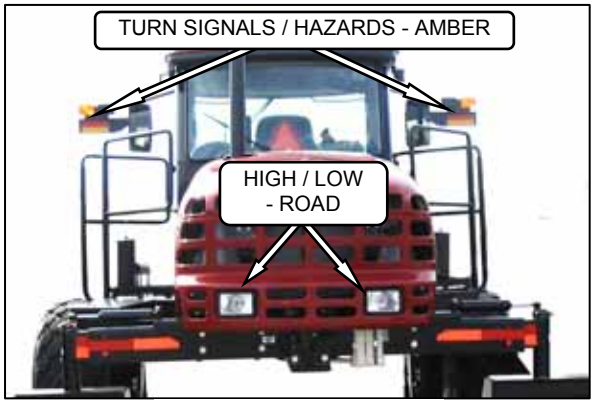
h. Switch on ROAD lights, and check that all lights are functioning as shown below.

i. Activate HIGH/LOW switch, and check lights.

j. Activate turn signals and hazard warning lights with switches on CDM, and check lights.



REAR - ENG FWD

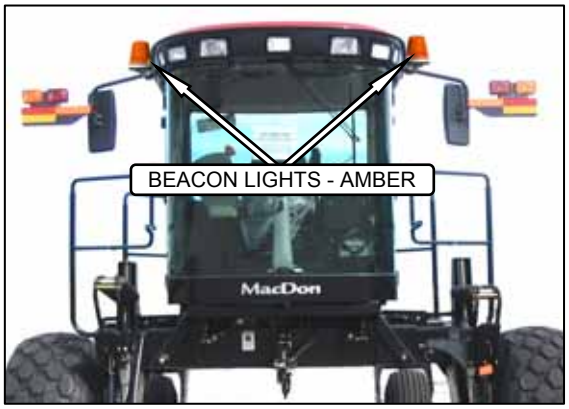


FRONT - ENG FWD

VIII. BEACON (IF INSTALLED)

a. Turn on ignition, and activate beacon switch.

b. Check beacons are working.



IX. HORN

a. Push HORN button, and listen for horn.

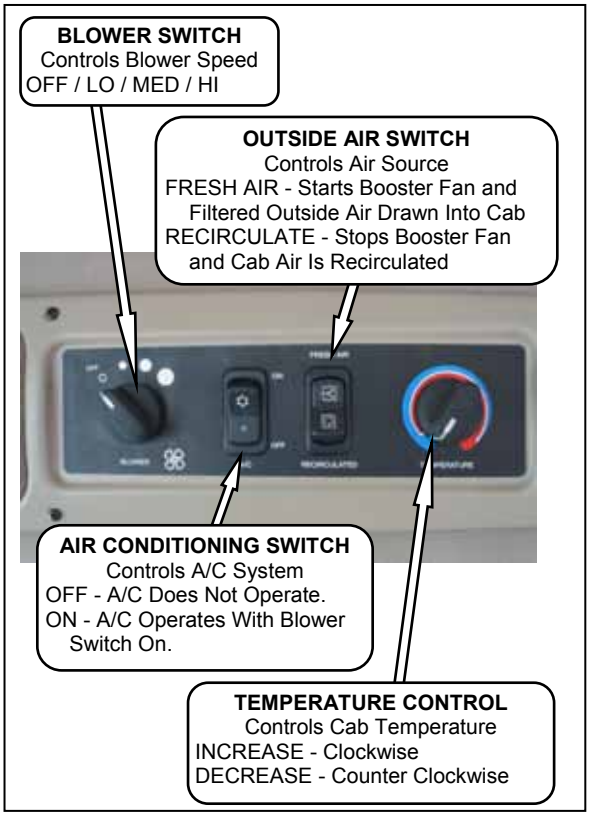
X. INTERIOR LIGHTS

a. Switch lights on and off with switches on each light. Interior lights only work with ROAD or FIELD light switch on.

XI. A/C AND HEATER

IMPORTANT

To distribute the oil throughout the system, perform the following steps whenever the machine is first started after storage for more than one week.



a. With the engine running, turn blower switch to the first position, turn temperature control switch to maximum heating, and A/C control to “OFF”.

b. Click A/C switch from "OFF" to "ON" for one second, then back to "OFF" for 5 to 10 seconds. Repeat this step ten times.

K. MANUALS

a. The following manuals should be stored in the manual storage case behind the operator’s seat:

- M Series Self-Propelled Windrower PARTS CATALOG. See below.
- M Series Self-Propelled Windrower OPERATOR’S MANUAL. See below.

WINDROWER	OPERATOR’S MANUAL	PARTS CATALOG
MacDon	169469	169472
Premier	169471	169474
Westward	169470	169473

- Engine Manual

L. CAB INTERIOR

a. Remove plastic coverings from Cab Display Module and seats, after pre-delivery check is complete.

NOTES

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DEALERS
www.macdondealers.com

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Printed in Canada

M205 Self-Propelled Windrower Pre-Delivery Checklist

Perform these checks and adjustments prior to delivery to your customer. The completed checklist should be retained either by the Operator or the Dealer.

CAUTION: Carefully follow the instructions given. Be alert for safety related messages which bring your attention to hazards and unsafe practices.

Windrower Serial Number: _____ Engine Serial Number: _____

✓	ITEM	PAGE
	Check for shipping damage or missing parts. Be sure all shipping dunnage is removed.	---
	Check for loose hardware. Tighten to required torque.	5
	Check tire air pressures, and adjust as required.	34
	Check final drive hub lubricant level.	34
	Check engine coolant level and strength at reserve tank.	35
	Check air cleaner and clamps.	36
	Check hydraulic oil level, and check for leaks along lines.	36
	Check fuel separator for water and foreign material. Drain and clean as necessary. Add fuel.	37
	Check gear box lubricant level.	37
	Check tension of A/C compressor belt.	37
	Check machine completely lubricated.	26
	Check neutral interlock system.	41
	Check horn operation.	43
	Check engine oil pressure indicator light at Cab Display Module (CDM).	41
START ENGINE AND RUN TO OPERATING TEMPERATURE		**39**
	Check Cab Display Module (CDM) for operation.	41
	Check Operator's Presence System.	41
	Check alternator charge rate at instrument console.	41
	Check fuel gauge for operation.	41
	Check air conditioning functioning properly.	44
	Check heater functioning properly.	44
	Check instrument console gauge lights and interior lights for operation.	44
	Check maximum (no load) engine speed at Cab Display Module (CDM). (2250-2340 rpm)	41
	Check exterior lights for operation.	42
	Check hazard and signal lights for operation.	42
	Check beacons for operation (if installed).	43
	Complete the Header Pre-Delivery Checklist.	---
	Check that manuals are with the Windrower.	44
	Check that plastic coverings from cab interior have been removed.	44

Date Checked: _____ Checked by: _____