



**M155 and M205
Self-Propelled Windrower**

**UNLOADING AND ASSEMBLY
INSTRUCTIONS
for
NORTH AMERICAN SHIPMENTS**

Published: September, 2011

INTRODUCTION

This instructional manual describes the unloading, set-up and pre-delivery requirements for the MacDon M155 and M205 Self-Propelled Windrowers.

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.



MACDON M155 AND M205 SELF-PROPELLED WINDROWER

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SAFETY

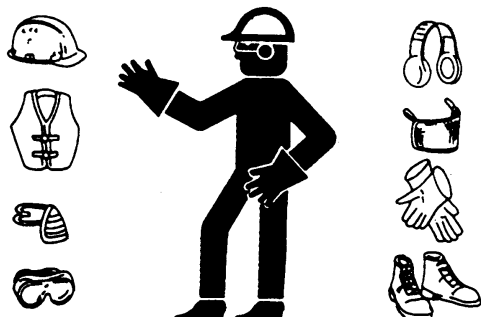
GENERAL SAFETY



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:



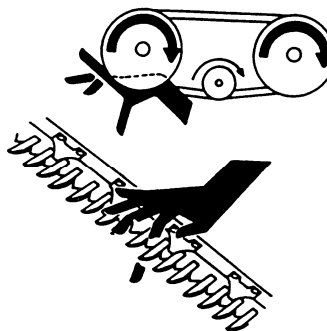
- a hard hat.
- protective shoes with slip resistant soles.
- protective glasses or goggles.
- heavy gloves.
- wet weather gear.
- respirator or filter mask.



- 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.

(continued next page)

SAFETY

- **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.**

GENERAL

RECOMMENDED TORQUES

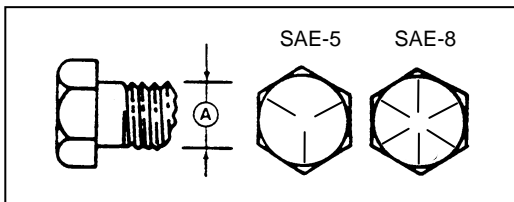
A. GENERAL

- 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" in. | NC BOLT TORQUE* | | | |
|-------------------------|-----------------|-----|--------|------|
| | SAE-5 | | SAE-8 | |
| | lbf-ft | N-m | lbf-ft | 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 |

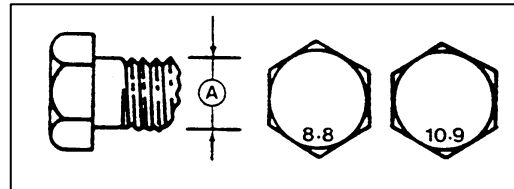
* Torque categories for bolts and capscrews are identified by their head markings.



C. METRIC BOLTS

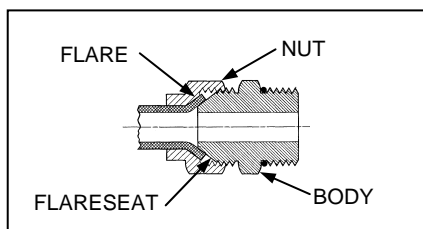
| BOLT DIA. "A" | STD COARSE BOLT TORQUE* | | | |
|------------------|-------------------------|------|--------|------|
| | 8.8 | | 10.9 | |
| | lbf-ft | N-m | lbf-ft | N-m |
| M3 | 0.4 | 0.5 | 1.3 | 1.8 |
| M4 | 2.2 | 3 | 3.3 | 4.5 |
| M5 | 4 | 6 | 7 | 9 |
| M6 | 7 | 10 | 11 | 15 |
| M8 | 18 | 25 | 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.



GENERAL

D. FLARE TYPE HYDRAULIC FITTINGS

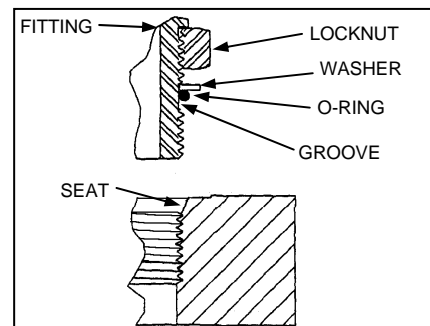


- Check flare and flare seat for defects that might cause leakage.
- Align tube with fitting before tightening.
- Lubricate connection, and hand-tighten swivel nut until snug.
- To prevent twisting the tube(s), use two wrenches. Place one wrench on the connector body, and with the second, tighten the swivel nut to the torque shown.

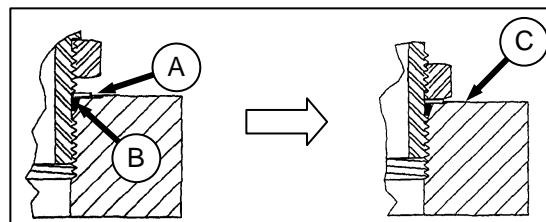
| SAE NO. | TUBE SIZE O.D. (in.) | THD SIZE (in.) | NUT SIZE ACROSS FLATS (in.) | TORQUE VALUE* | | RECOMMENDED TURNS TO TIGHTEN (AFTER FINGER TIGHTENING) | |
|---------|----------------------|----------------|-----------------------------|---------------|-----|--|-------|
| | | | | ft-lbf | N-m | Flats | 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 |

* Torque values shown are based on lubricated connections as in re-assembly.

E. O-RING BOSS (ORB) HYDRAULIC FITTINGS



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



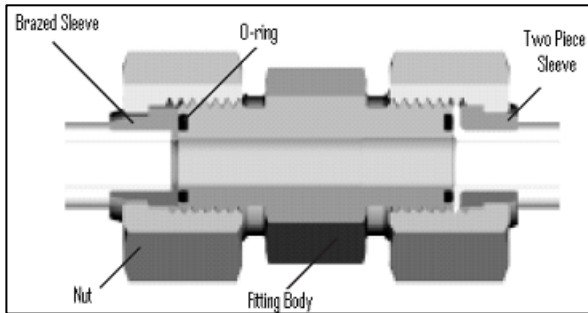
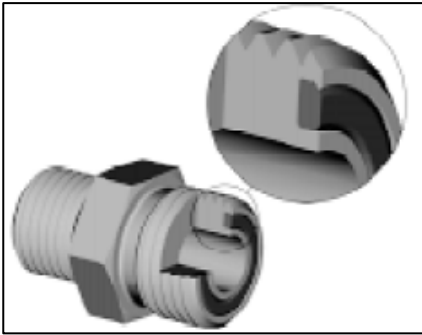
- On angle fittings, back off the lock nut until washer (A) bottoms out at top of groove (B) in fitting.
- Hand-tighten fitting until back up washer (A) or washer face (if straight fitting) bottoms on part face (C), and O-ring is seated.
- Position angle fittings by unscrewing **no more than one turn**.
- Tighten straight fittings to torque shown.
- 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 |

* Torque values shown are based on lubricated connections as in re-assembly.

GENERAL

F. O-RING FACE SEAL (ORFS) HYDRAULIC FITTINGS



- Check components to ensure that the sealing surfaces and fitting threads are free of burrs, nicks, and scratches, or any foreign material.
- Apply lubricant (typically Petroleum Jelly) to O-ring and threads. If O-ring is not already installed, install O-ring.
- Align the tube or hose assembly. Ensure that flat face of the mating flange comes in full contact with O-ring.
- Thread tube or hose nut until hand-tight. The nut should turn freely until it is bottomed out. Torque fitting further to the specified number of F.F.T ("Flats From Finger Tight"), or to a given torque value in the table shown in the opposite column.

NOTE

If available, always hold the hex on the fitting body to prevent unwanted rotation of fitting body and hose when tightening the fitting nut.

- When assembling unions or two hoses together, three wrenches will be required.

| SAE NO. | THD SIZE (in.) | TUBE O.D. (in.) | TORQUE VALUE* | | RECOMMENDED TURNS TO TIGHTEN (AFTER FINGER TIGHTENING)** | |
|---------|----------------|-----------------|---------------|-----------|--|---------------|
| | | | ft-lbf | N-m | Tube Nuts | Swivel & Hose |
| 3 | *** | 3/16 | --- | --- | --- | --- |
| 4 | 9/16 | 1/4 | 11 - 12 | 14 - 16 | 1/4 - 1/2 | 1/2 - 3/4 |
| 5 | *** | 5/16 | --- | --- | --- | --- |
| 6 | 11/16 | 3/8 | 18 - 20 | 24 - 27 | 1/4 - 1/2 | 1/2 - 3/4 |
| 8 | 13/16 | 1/2 | 32 - 35 | 43 - 47 | | |
| 10 | 1 | 5/8 | 45 - 51 | 60 - 68 | | |
| 12 | 1-3/16 | 3/4 | 67 - 71 | 90 - 95 | | 1/3 - 1/2 |
| 14 | 1-3/16 | 7/8 | 67 - 71 | 90 - 95 | | |
| 16 | 1-7/16 | 1 | 93 - 100 | 125 - 135 | | |
| 20 | 1- | 1-1/4 | 126 - 141 | 170 - 190 | | |
| 24 | 2 | 1-1/2 | 148 - 167 | 200 - 225 | | |
| 32 | 2-1/2 | 2 | --- | --- | --- | --- |

* Torque values and angles shown are based on lubricated connection, as in re-assembly.

** Always default to the torque value for evaluation of adequate torque

*** O-ring face seal type end not defined for this tube size.

GENERAL

CONVERSION CHART

| QUANTITY | INCH-POUND UNITS | | FACTOR | SI UNITS (METRIC) | |
|--------------------|---|----------------------|---|---------------------|--------------------------|
| | UNIT NAME | ABBR. | | UNIT NAME | ABBR. |
| Area | acres | acres | $\times 0.4047 =$ | hectares | ha |
| Flow | gallons per minute (US) gallons per minute (Imp) | gpm (US) gpm | $\times 3.7854 =$ $\times 4.5460 =$ | liters per minute | L/min |
| Force | pounds force | lbf | $\times 4.4482 =$ | Newtons | N |
| Length | inch | in. | $\times 25.4 =$ | millimeters | mm |
| | foot | ft | $\times 0.305 =$ | meters | m |
| Power | horsepower | hp | $\times 0.7457 =$ | kilowatts | kW |
| Pressure | pounds per square inch | psi | $\times 6.8948 =$ | kilopascals | kPa |
| | | | $\times .00689 =$ | megapascals | MPa |
| Torque | pound feet or foot pounds | lbf·ft or ft·lbf | $\times 1.3558 =$ | newton meters | N·m |
| | pound inches or inch pounds | lbf·in. or in·lbf | $\times 0.1129 =$ | | |
| Temperature | degrees Fahrenheit | °F | $(^{\circ}\text{F} - 32) \times 0.56 =$ | Celsius | °C |
| Velocity | feet per minute | ft/min | $\times 0.3048 =$ | meters per minute | m/min |
| | feet per second | ft/s | $\times 0.3048 =$ | meters per second | m/s |
| | miles per hour | mph | $\times 1.6063 =$ | kilometers per hour | km/h |
| Volume | ounces | oz. | $\times 29.5735 =$ | milliliters | ml |
| | cubic inches | in. ³ | $\times 16.3871 =$ | cubic centimeters | cm ³ or cc |
| | quarts (US) quarts (Imperial) | US qt. qt. | $\times 0.96464$ $\times 1.1365$ | liters | L |
| | gallons (US) gallons (Imperial) | US gal. gal. | $\times 3.7854 =$ $\times 4.5460 =$ | | |
| Weight | pounds | lb | $\times 0.4536 =$ | kilograms | kg |

GENERAL

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). |

UNLOADING AND ASSEMBLY

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 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.

- Move trailer into position, and block trailer wheels.
- Set forklift tines to the widest possible setting.



- 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.

- 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.

- Drive the truck slowly forward until trailer bed is clear of windrower.
- Lower unit slowly and simultaneously with both forklifts to the ground. If ground is soft, place wooden blocks under front shipping stands.
- Back off forklifts.
- Check windrower for shipping damage, and check shipment for missing parts.

UNLOADING AND ASSEMBLY

B. SINGLE FORKLIFT METHODS

There are two methods that can be used.

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 Capacity * | 5500 lb (2500 kg) |

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

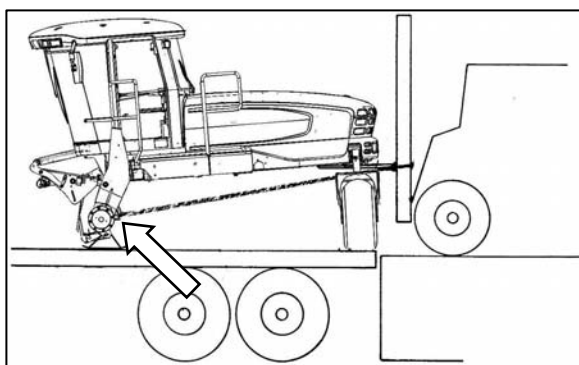
IMPORTANT

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) |

- Position rear of trailer against unloading dock that is the same height or slightly lower than the trailer bed.
- Remove shipped parts from under windrower frame.
- Set forklift tines to widest possible setting.



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

- Install chains from forklift mast to jacking brackets on both front legs of windrower.
- 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.

- Drag windrower rearward off of carrier.
- Remove chains, and back off the forklift.
- 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 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.

- Move trailer into position, and block trailer wheels.
- Set forklift tines to the widest possible setting.

(continued next page)

UNLOADING AND ASSEMBLY



- 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

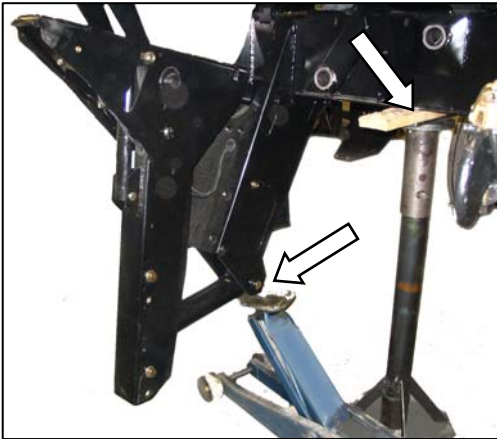
Ensure forks project beyond far side of frame.

- 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. If ground is soft, place wooden blocks under front shipping stands.
- g. Back off forklift.
- h. Check windrower for shipping damage, and check shipment for missing parts.

UNLOADING AND ASSEMBLY

STEP 2. RE-POSITION RH LEG

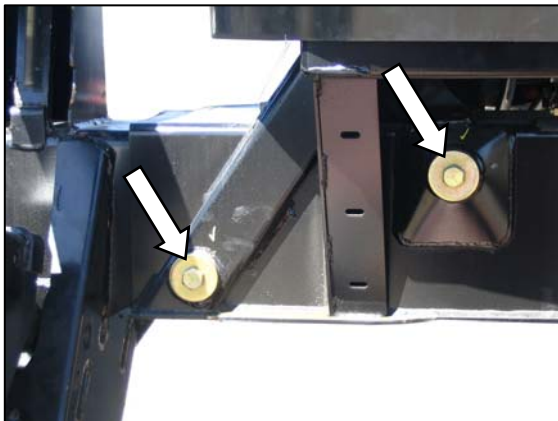
Only the right cab-forward leg requires re-positioning from shipping to field configuration.



- Support front of windrower with stand (or equivalent) so that the RH leg is off the ground.
- Position jack under RH leg, and raise jack slightly to take some weight off leg.

IMPORTANT

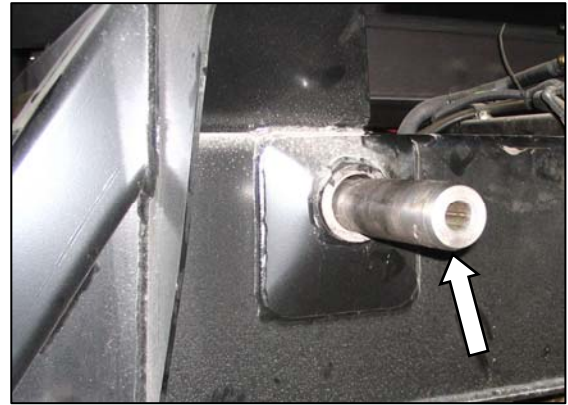
Removal of pins will be difficult if jack is not positioned to take weight off leg.



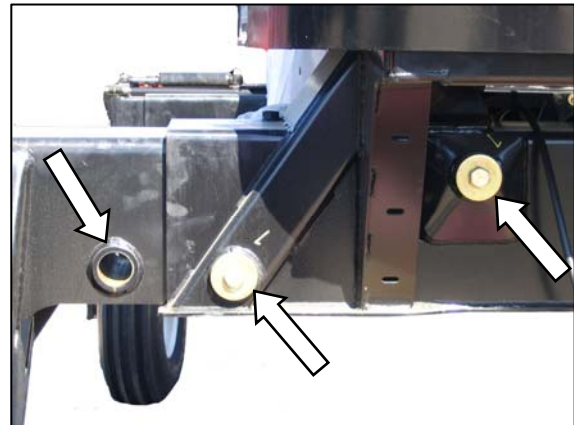
- Remove two bolts, washers, and nuts from frame.



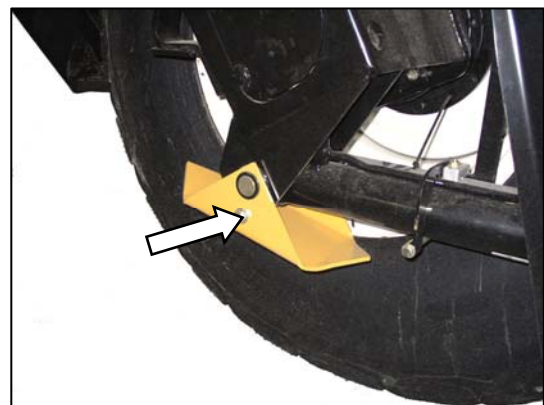
TOOL - 163841



- Adjust jack height while observing pin position in bore. When pin is loosest, tap out pin with hammer or use tool (shown at the bottom of the previous column) to extract pin.
- Repeat above step for second pin.



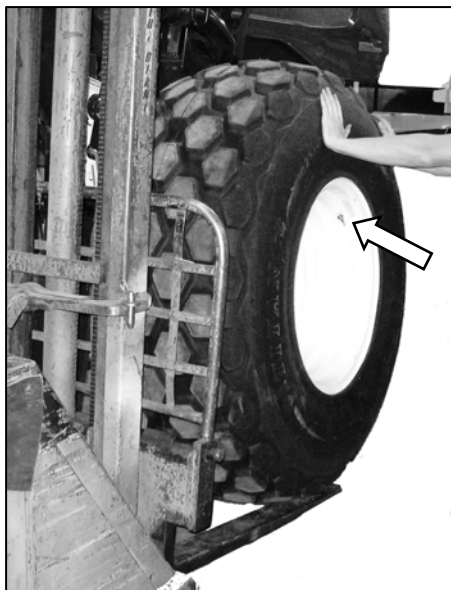
- Move leg out to expose one hole.
- Re-install pins, and secure with bolts, washers, and nuts (not shown). Torque nuts to 100 ft-lbf (136 N·m).



- Remove bolt and shipping skids from legs.

UNLOADING AND ASSEMBLY

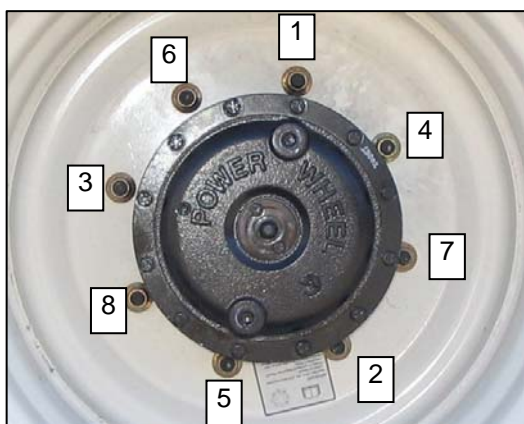
STEP 3. INSTALL FRONT WHEELS



- a. Position wheel against hub, so that that air valves are on the outside, and tire tread points "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.



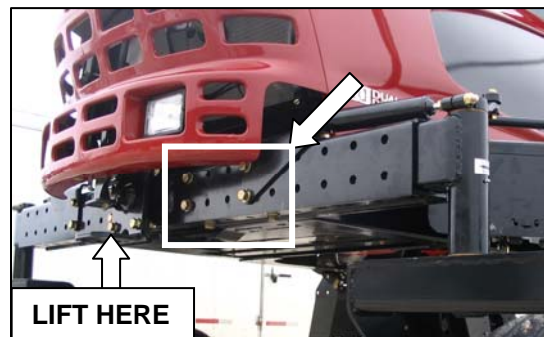
- d. Install wheel nuts, and tighten to 220 ft·lbf (300 N·m) using the tightening sequence as shown above.

NOTE

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

- e. Repeat sequence three times.

STEP 4. RE-POSITION 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.



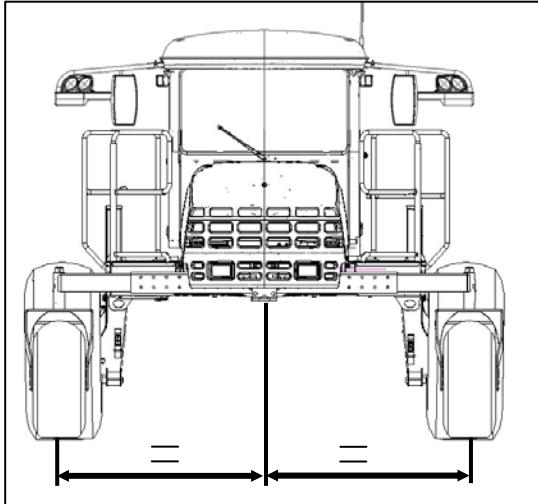
- c. Slide extensions outboard equal amounts, and align holes at desired location.

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)

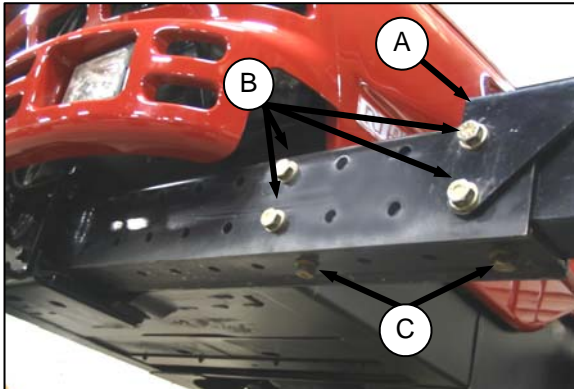
UNLOADING AND ASSEMBLY



WIDEST TREAD WIDTH SHOWN

IMPORTANT

Caster wheels must be equi-distant from center of windrower.

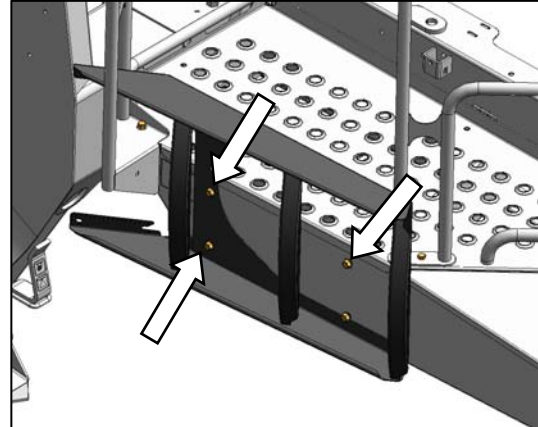


- d. Position bracket (A), and install bolts (B). The two shorter bolts are installed at the back inboard locations.
- e. Install bottom bolts (C).
- f. Tighten bolts as follows:
 - 1. Snug bottom bolts (C).
 - 2. Tighten and torque back bolts (B) to 330 ft·lbf (447 N·m).
 - 3. Tighten and torque bottom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

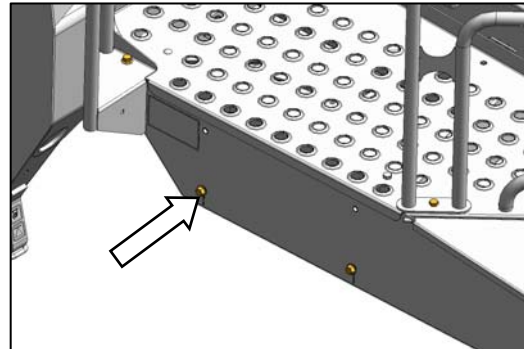
IMPORTANT

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

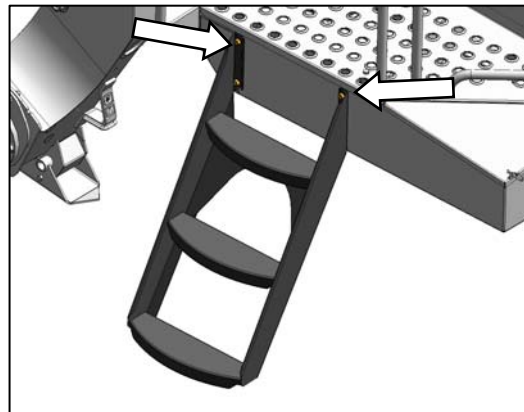
STEP 5. INSTALL STEPS



- a. Remove two bolts securing steps to platform, and remove steps.
- b. Remove the one existing upper bolt.



- c. Re-install one bolt in lower hole in platform. Do not thread in fully.
- d. Hang step assembly on bolts. Back off bolts if required.



- e. Install two remaining bolts in upper holes in step, and tighten.
- f. Tighten upper bolts installed in step a.
- g. Repeat for other step assembly.

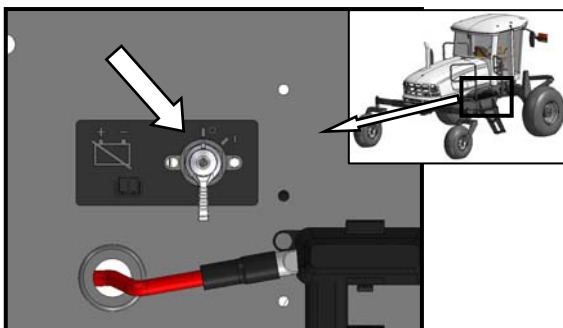
UNLOADING AND ASSEMBLY

STEP 6. INSTALL BATTERIES

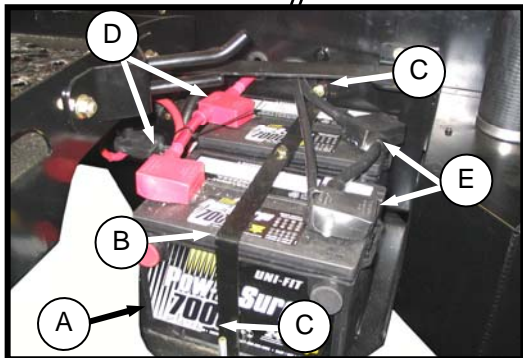
- a. Batteries should meet the following specification:

| 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) |

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



- c. A battery main disconnect switch is located on the RH frame rail behind the maintenance platform, and can be accessed by moving the platform. Ensure battery switch is switched to POWER OFF position.



- d. Remove cable ties securing battery clamps and cables to frame.
e. Position new batteries on holder (A).
f. Install clamp (B) with bolts (C) provided, and tighten securely.

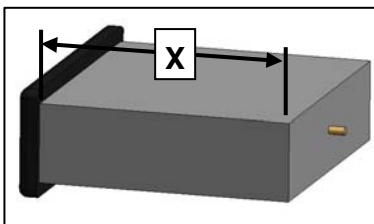
IMPORTANT

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 terminals (D) to positive post on batteries, and tighten. Re-position plastic covers onto clamps.
h. Attach negative (black) cable terminals (E) to negative post on batteries, and tighten clamps.
i. Switch battery switch to POWER ON position.
j. Move platform back to "closed" position.

UNLOADING AND ASSEMBLY

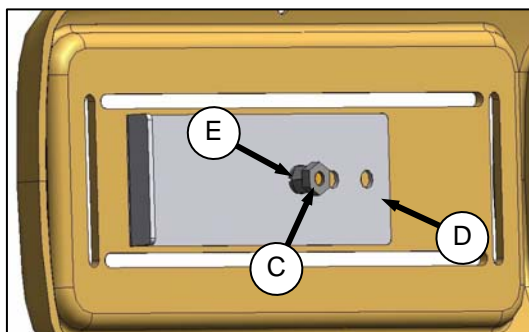
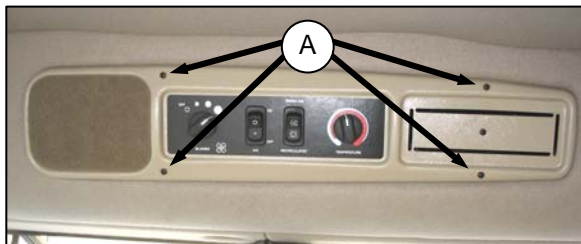
STEP 7. INSTALL AM/FM RADIO



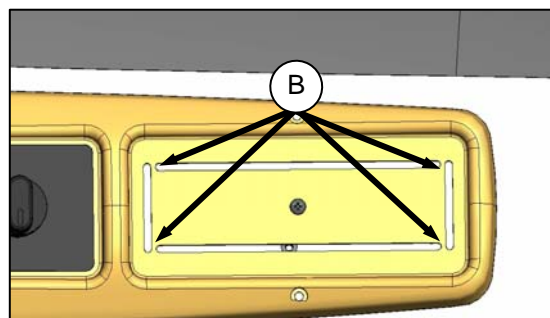
Provision has been made for installation of AM/FM radio. The mounting is designed to fit a DIN E style radio with a depth of 'X' = 161 mm, and having a 5 mm threaded stud centered on the rear for support.

Adjustments can be made should the radio fall outside these parameters.

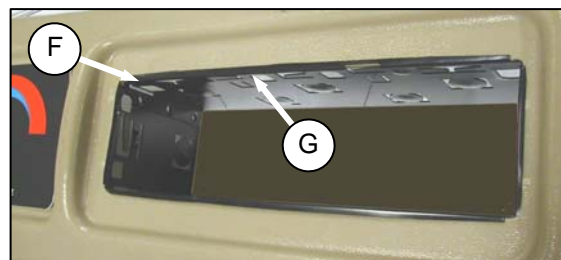
- a. Ensure battery disconnect switch is turned to OFF position, and the ignition is turned to OFF position.



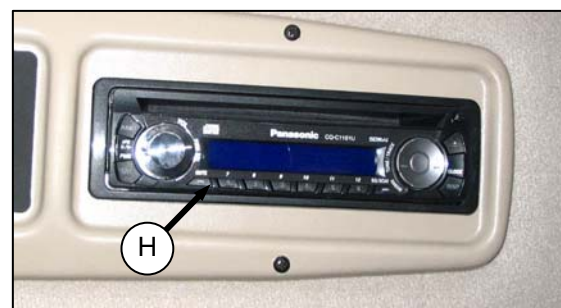
- b. Remove radio panel by removing four screws (A).
- c. Remove screw and nut (C) to remove support (D) from panel. Retain metric nut (E) and lockwasher.



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

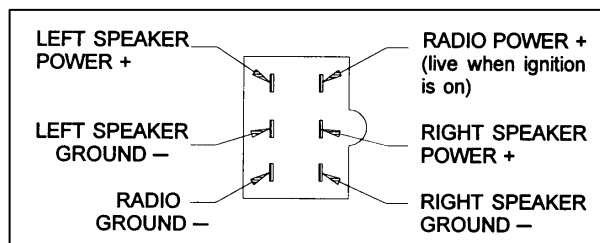


- e. Locate receptacle (F) (supplied with radio) in opening, and secure by bending tabs (G) on receptacle against panel.



- 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)

UNLOADING AND ASSEMBLY

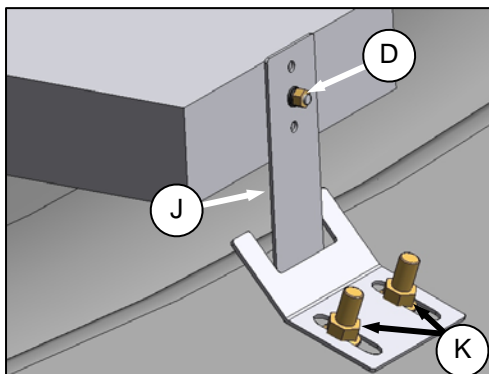
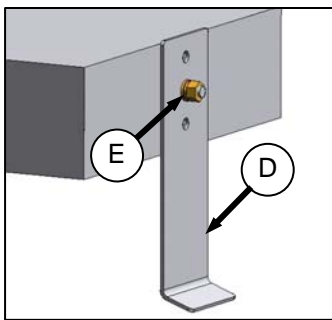
- h. Attach two additional wires in the wiring harness to the radio:
 - 1. **Circuit 503:** Red with 1/4 in. female blade terminal. This is a live wire provided for powering a radio clock/memory (if these exist on your radio).
 - 2. **Circuit 315:** Black ground wire attaches to radio body.
- i. Plug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

NOTE

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

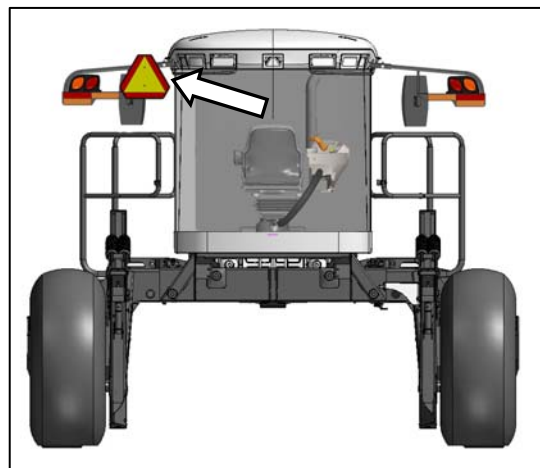
- j. Attach stud (supplied with radio) to center rear of radio.
- k. Attach support (D) to stud on back of radio chassis with lock washer and metric nut (E) that were supplied with the support.

Support can be attached to chassis in multiple locations to allow for proper mounting of radio.
- l. Re-install radio panel with original screws.

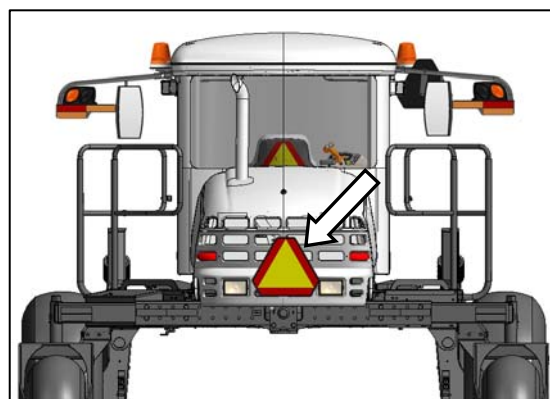


- m. Adjust bracket (J) if necessary by loosening nuts (K) to allow radio to slide into opening, and securely capture support (D).
- n. Turn battery disconnect switch to ON position.
- o. Turn ignition key to ACC, switch radio ON, and check operation in accordance with instructions supplied with the radio.

STEP 8. INSTALL SLOW MOVING VEHICLE (SMV) SIGN



ENGINE - FORWARD



WITH LIGHT KIT:
CAB-FORWARD

- a. Install SMV sign (shipped in cab) on windrower in accordance with instructions supplied with the sign.
- b. The SMV signs must be visible when travelling on the road.

UNLOADING AND ASSEMBLY

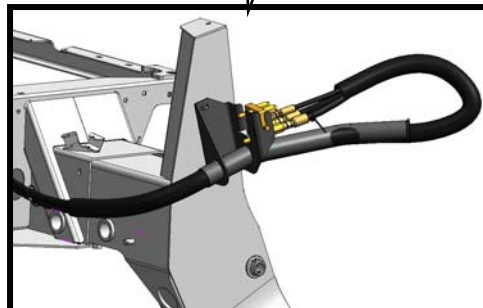
STEP 9. ATTACH HEADER



A. HEADER ATTACHMENT: D SERIES

I. CONFIGURE HYDRAULICS

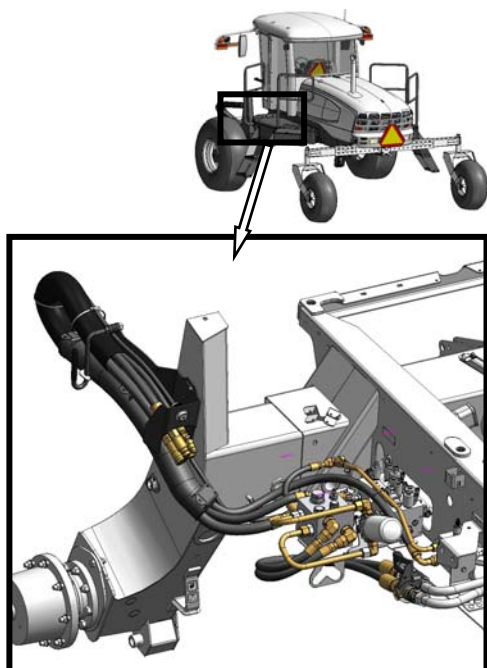
M205 and M155 windrowers must be fitted with a draper drive basic kit and a completion kit to operate the D-Series draper headers.



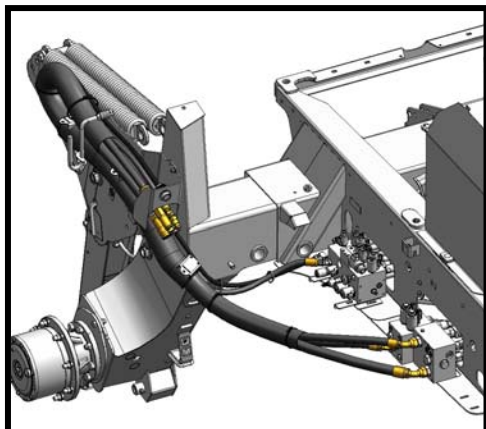
DRAPER HEADER REEL HYDRAULICS

Windrowers equipped with D-Series hydraulics have four header drive hoses on the LH side, and up to five reel drive hoses on the RH side.

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



DRAPER HEADER HYDRAULICS FOR M205

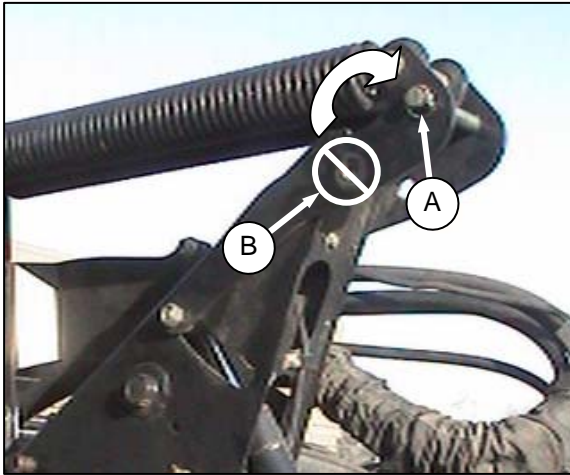


DRAPER HEADER HYDRAULICS FOR M155

| KIT DESCRIPTION | KIT NUMBER | |
|-----------------|------------|-------|
| | M205 | M155 |
| Base Kit | B5491 | B5577 |
| Completion | B5496 | --- |
| Reverser | B5492 | B4656 |

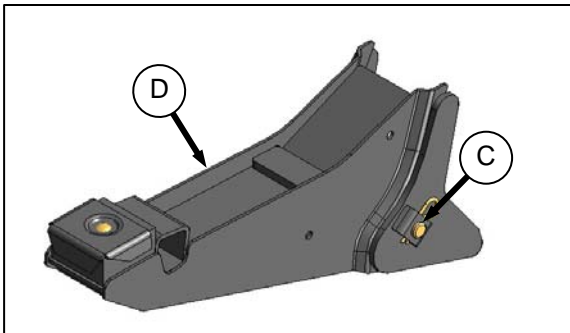
UNLOADING AND ASSEMBLY

II. ATTACH HEADER BOOTS



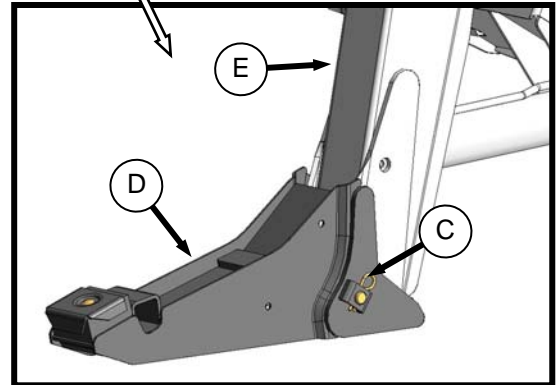
IMPORTANT

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).



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

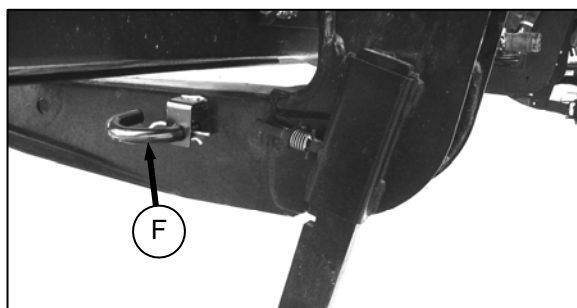
- a. Remove pin (C) from boot (D).



- b. Locate boot (D) on lift linkage (E), and re-install pin (C). Pin may be installed from either side of boot.
- c. Secure pin (C) with hairpin.
- d. Repeat for opposite side.

UNLOADING AND ASSEMBLY

III. ATTACH HEADER

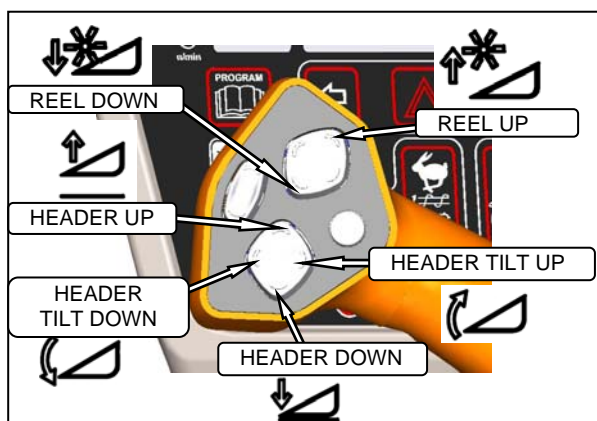


- a. Remove hairpin on pins (F), and remove pins from header legs.



CAUTION

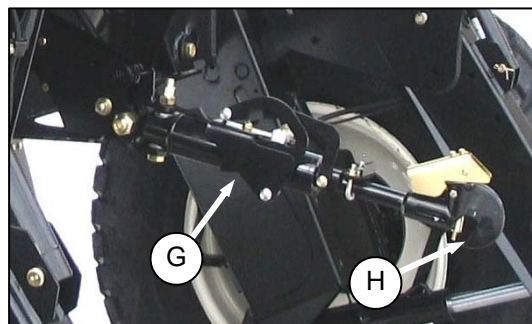
Check to be sure all bystanders have cleared the area.



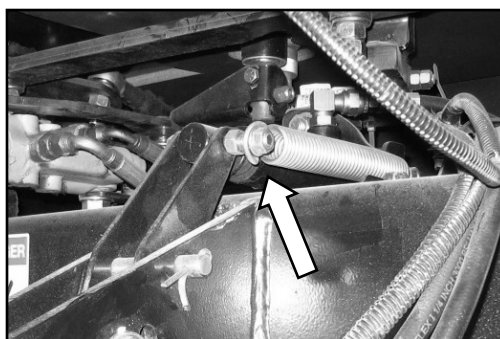
- b. Start engine, and activate HEADER DOWN button on the GSL to fully retract header lift cylinders.

IMPORTANT

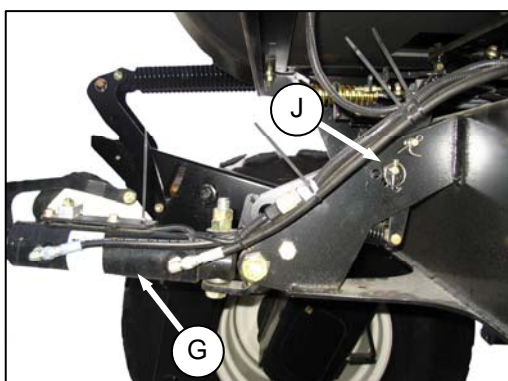
If the center link is too low, it may contact the header as the windrower approaches the header for hook-up.



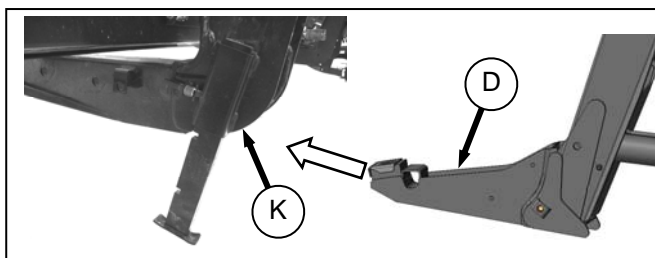
- c. If necessary, adjust position of the hydraulic center link (G) so that the hook (H) is above the attachment pin on the header by one of the following methods:



1. If the optional center link self-alignment kit is installed, activate the REEL UP switch on the GSL to raise the center link (G).



2. Without the self-alignment kit, re-locate the pin (J) at the frame linkage as required to raise the center link (G).



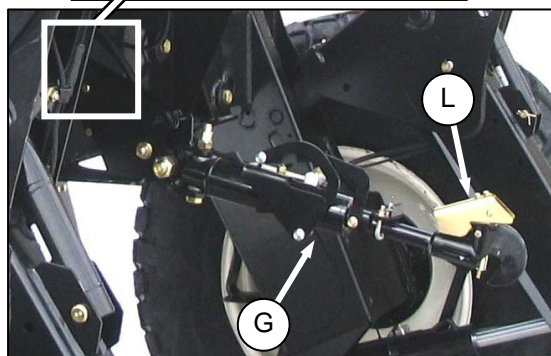
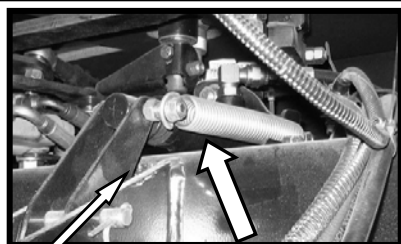
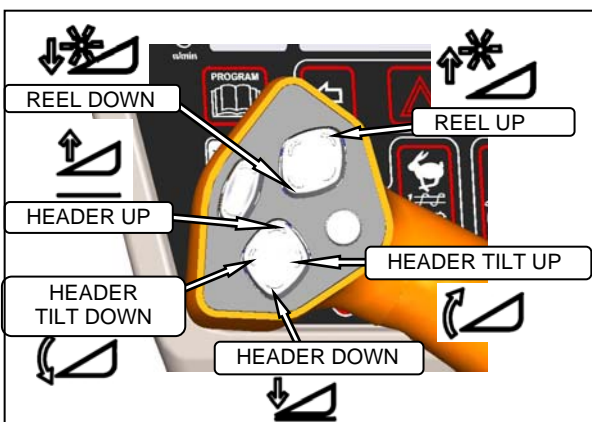
- d. Slowly drive windrower forward so that boots (D) enter header legs (K). Continue to drive slowly forward until lift linkages contact support plates in the header legs, and header nudges forward.
- e. Ensure that lift linkages are properly engaged in header legs, contacting support plates.

(continued next page)

UNLOADING AND ASSEMBLY

f. Connect center-link:

HYDRAULIC LINK WITH OPTIONAL SELF-ALIGNMENT KIT

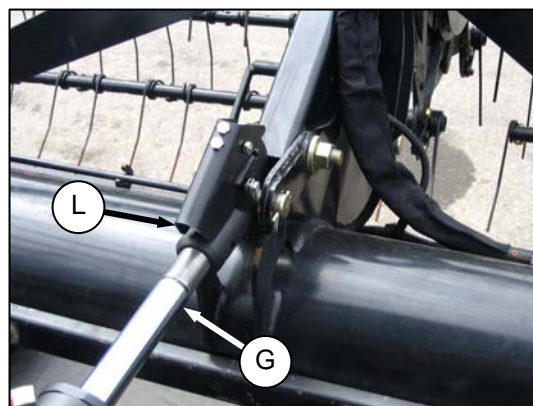


1. Adjust position of the center-link cylinder (G) with the REEL UP and REEL DOWN switches, and HEADER TILT switches on the GSL to position the hook above the header attachment pin.

IMPORTANT

Hook release (L) must be down to enable self-locking mechanism. If the release is open ("up"), manually push it down after hook engages header pin.

2. Lower center-link (G) onto the header with REEL DOWN switch until it locks into position (hook release (L) is down).



3. Check that center-link (G) is locked onto header by pressing the REEL UP switch on the GSL.
4. Proceed to step f. on next page.

HYDRAULIC LINK WITHOUT SELF-ALIGNMENT KIT (M205 STANDARD, M155 OPTIONAL)

1. Activate HEADER TILT cylinder switches on GSL to extend or retract center-link cylinder (G) so that the hook lines-up with the header attachment pin.
2. Stop engine, and remove key from ignition.
3. Push down on rod end of link cylinder (G) until hook engages pin on header, and is locked.

IMPORTANT

Hook release (L) must be down to enable self-locking mechanism. If the release is open ("up"), manually push it down after hook engages header pin.

4. Check that center-link is locked onto header by pulling upward on rod end of cylinder.
5. Proceed to step g. on next page.

(continued next page)

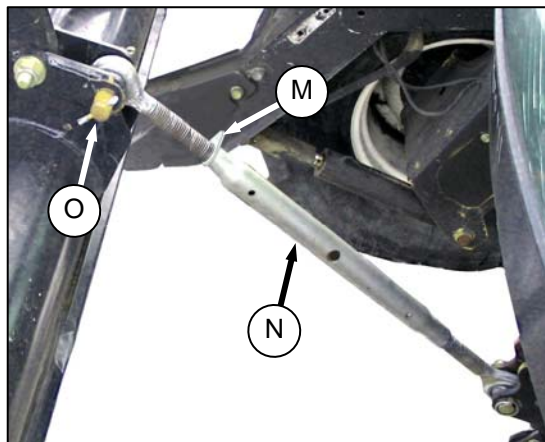
UNLOADING AND ASSEMBLY

MECHANICAL LINK (M155 OPTIONAL)



WARNING

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

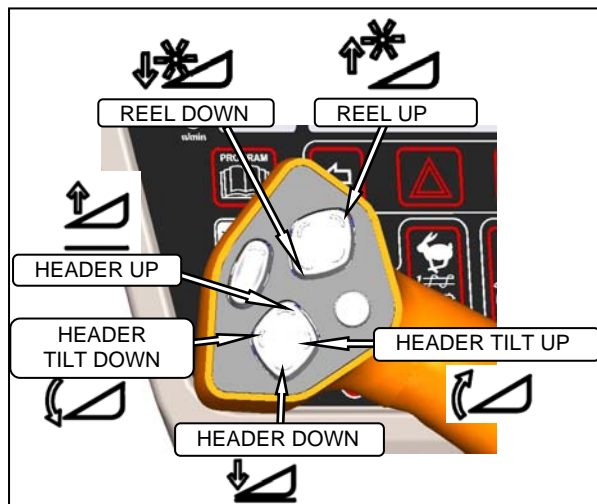


1. Stop engine, and remove key from ignition.
2. Loosen nut (M), and rotate barrel (N) to adjust length so that the link lines-up with header bracket.
3. Install pin (O), and secure with cotter pin.
4. Adjust link to required length for proper header angle by rotating barrel (N). Tighten nut (M) against barrel. A slight tap with a hammer is sufficient.



CAUTION

Check to be sure all bystanders have cleared the area.



- g. If engine is not running, start engine, and press HEADER UP switch to raise header to maximum height.

NOTE

If one end of the header does not raise fully, the lift cylinders require re-phasing. If re-phasing is needed, proceed as follows:

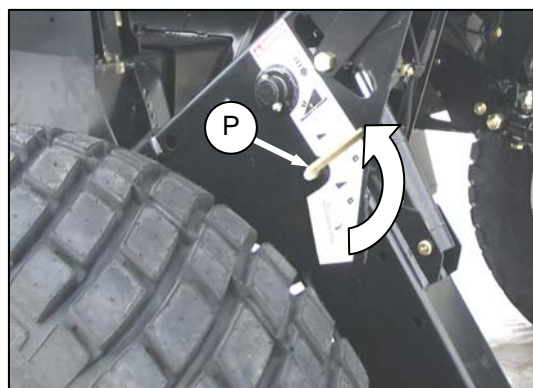
1. Press and hold the HEADER UP switch until both cylinders stop moving.
2. Continue to hold the switch for 3 - 4 seconds.
3. Cylinders are phased.



DANGER

To avoid bodily injury from fall of raised header, always engage header lift cylinder stops when working on or around raised header, and before going under header for any reason.

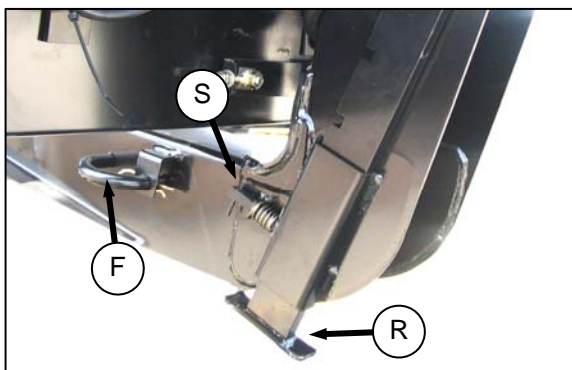
- h. Cylinder stops are located on both header lift cylinders on the windrower. Engage lift cylinder stops on both lift cylinders as follows:
 1. Stop engine, and remove key from ignition.



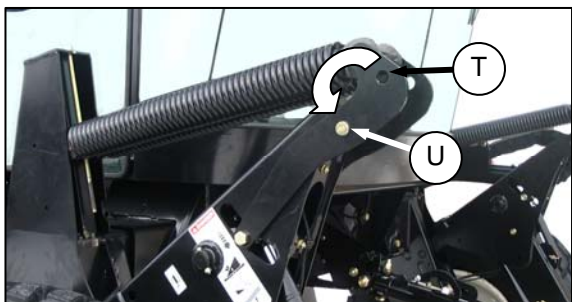
2. Pull lever (P), and rotate toward header to release and lower cylinder stop (Q) onto cylinder.
3. Repeat for opposite lift cylinder.

(continued next page)

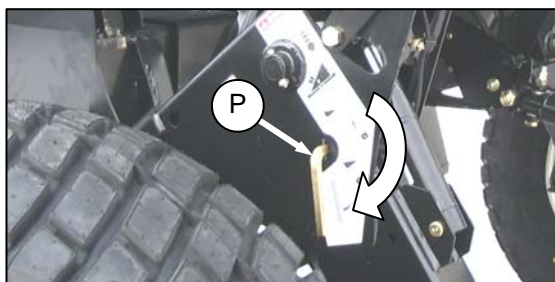
UNLOADING AND ASSEMBLY



- h. Install pin (F) through header leg, (engaging U-bracket in lift linkage) on both sides, and secure with hairpin.
- i. Raise header stand (R) to “storage position” by pulling pin (S), and lifting stand into “uppermost” position. Release pin (S).



- j. Remove pin from “storage position” (T) in linkage, and insert in hole (U) to engage float springs. Secure with hairpin.



- k. Disengage lift cylinder stop by turning lever (P) downward to release and lower stop until lever locks into “vertical” position.
- l. Repeat for opposite lift cylinder stop.



CAUTION

Check to be sure all bystanders have cleared the area.

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

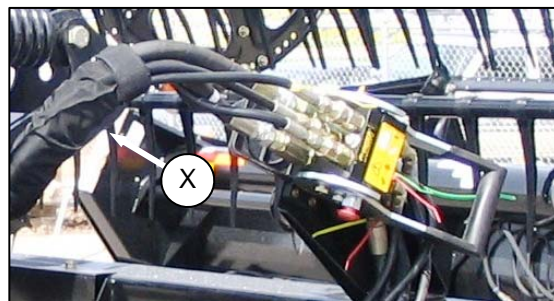


WARNING

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



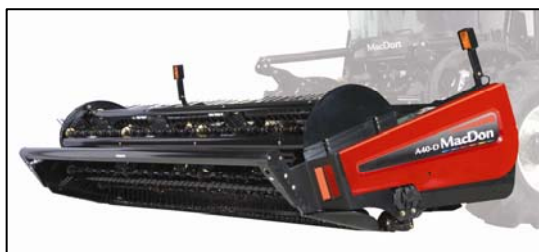
- n. Connect header drive hoses (V) and electrical harness (W) to header. Refer to the Draper Header Operator's Manual.



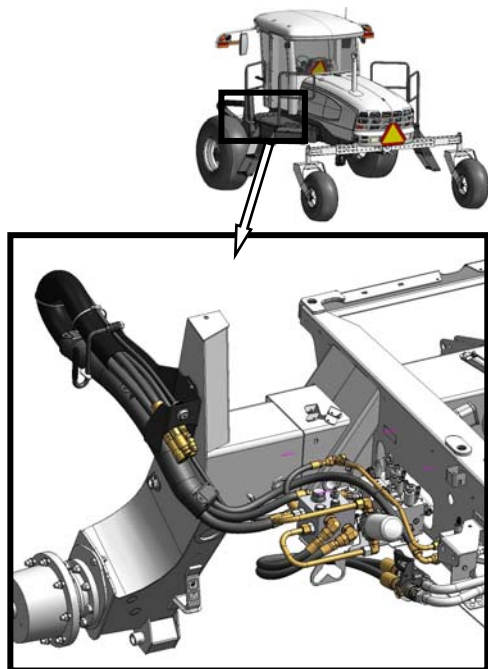
- o. Connect reel hydraulics (X) at RH side of windrower. Refer to the Draper Header Operator's Manual.

UNLOADING AND ASSEMBLY

B. HEADER ATTACHMENT: A SERIES



I. CONFIGURE HYDRAULICS



AUGER HEADER HYDRAULICS FOR M205

The M205 windrower must be fitted with an auger drive completion kit to operate the A-Series draper header.

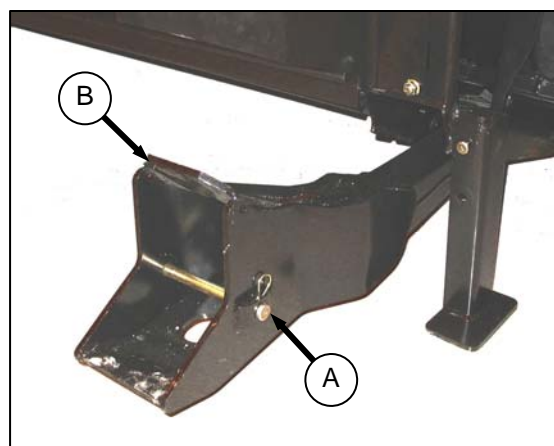
Windrowers equipped with A-Series hydraulics have four header drive hoses on the LH side.

If necessary, obtain the following kit from your MacDon Dealer, and install it in accordance with the instructions supplied with the kits.

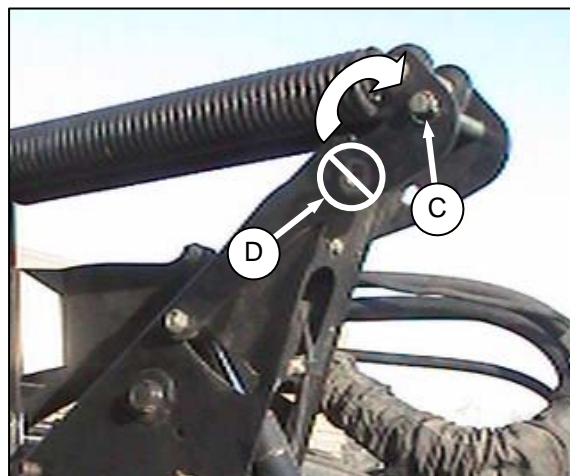
| KIT DESCRIPTION | KIT NUMBER |
|---------------------|------------|
| Basic Drive | B5491 |
| Completion/Reverser | B5492 |

The M155 is factory-equipped to run the A-Series auger headers.

II. ATTACH HEADER



- 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).

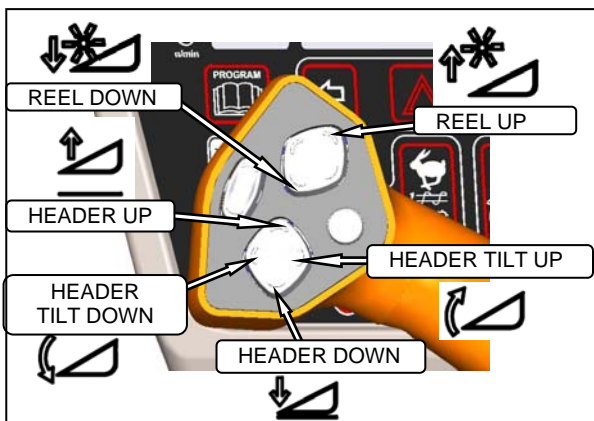
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UNLOADING AND ASSEMBLY



CAUTION

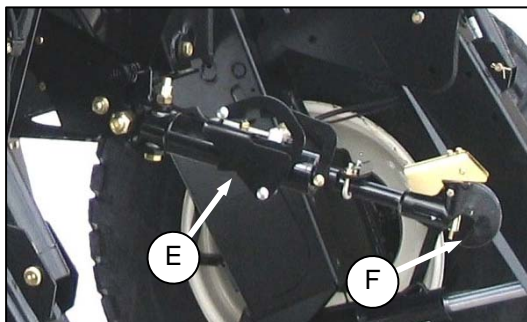
Check to be sure all bystanders have cleared the area.



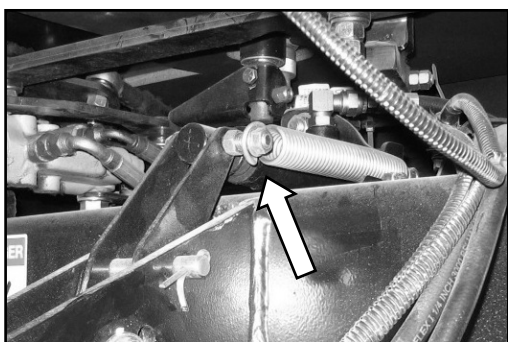
- b. Start engine, and activate HEADER DOWN button on the GSL to fully retract header lift cylinders.

IMPORTANT

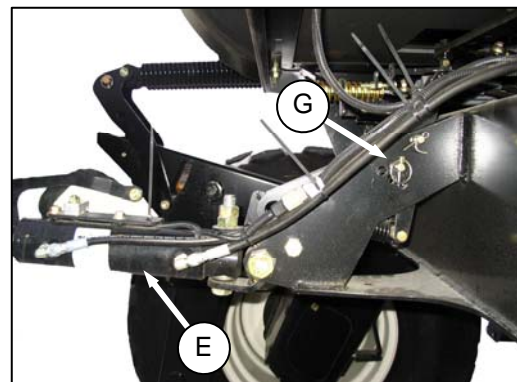
If the center link is too low, it may contact the header as the windrower approaches the header for hook-up.



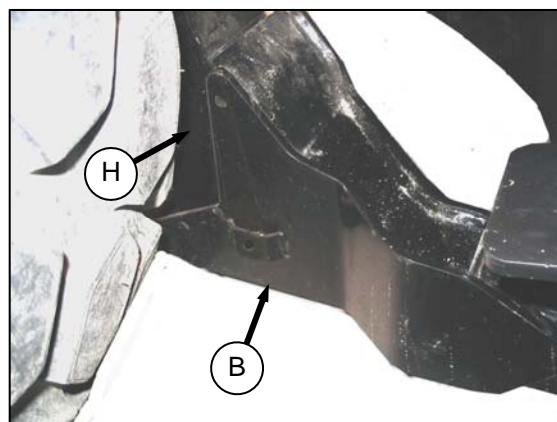
- c. If necessary, adjust position of the hydraulic center link (E) so that the hook (F) is above the attachment pin on the header by one of the following methods:



1. If the optional center link self-alignment kit is installed, activate the REEL UP switch on the GSL to raise the center link (E).



2. Without the self-alignment kit, re-locate the pin (G) at the frame linkage as required to raise the center link (E).



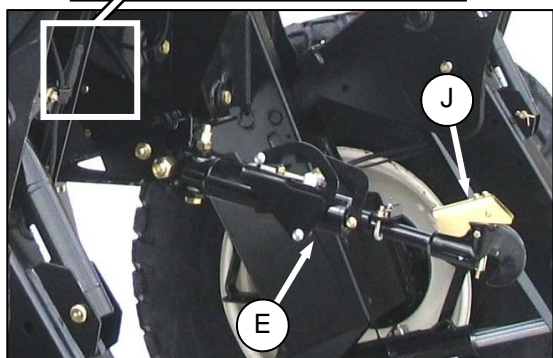
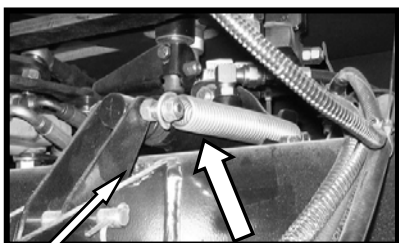
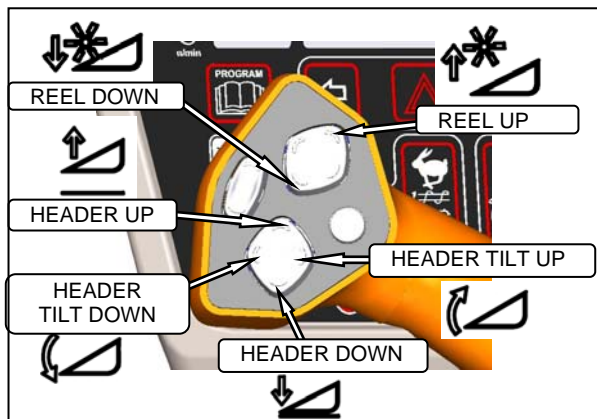
- d. Slowly drive windrower forward so that feet (H) on windrower enter boots (B) on the header. Continue to drive slowly forward until feet engage the boots, and header nudges forward.

(continued next page)

UNLOADING AND ASSEMBLY

e. Connect center-link:

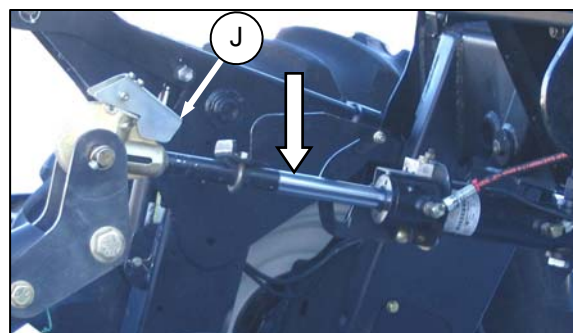
HYDRAULIC LINK WITH OPTIONAL SELF-ALIGNMENT KIT



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

IMPORTANT

Hook release (J) must be down to enable self-locking mechanism. If the release is open ("up"), manually push it down after hook engages header pin.



2. Lower the center-link onto the header with REEL DOWN switch until it locks into position (hook release (J) is "down").
3. Check that center-link is locked onto header by pressing the REEL UP switch on the GSL.
4. Proceed to step f. on next page.

HYDRAULIC LINK WITHOUT SELF-ALIGNMENT KIT (M205 STANDARD, M155 OPTIONAL)

1. Activate HEADER TILT cylinder switches on GSL to extend or retract center-link cylinder (E) so that the hook lines-up with the header attachment pin.
2. Stop engine, and remove key from ignition.
3. Push down on rod end of link cylinder (E) until hook engages pin on header, and is locked.

IMPORTANT

Hook release (J) must be down to enable self-locking mechanism. If the release is open ("up"), manually push it down after hook engages header pin.

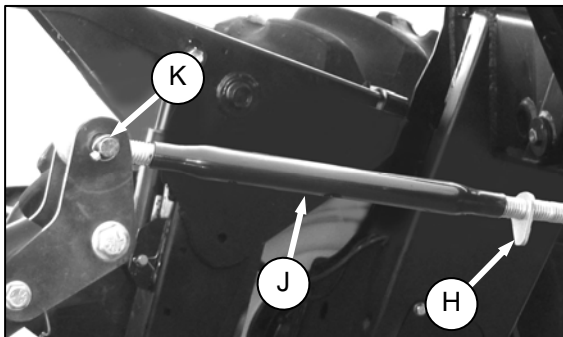
4. Check that the center-link is locked onto header by pulling upward on rod end of cylinder.
5. Proceed to step f. on next page.

(continued next page)

UNLOADING AND ASSEMBLY

MECHANICAL LINK (M155 OPTIONAL)

1. Stop engine, and remove key from ignition.

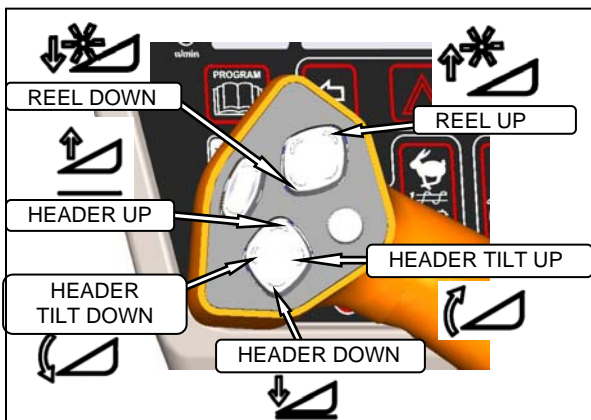


2. Loosen nut (H), and rotate barrel (J), to adjust length so that other end lines-up with header bracket.
3. Install pin (K), and secure with cotter pins.
4. Adjust link to required length for proper header angle by rotating barrel (J). Tighten nut (H) against barrel. A slight tap with a hammer is sufficient.



CAUTION

Check to be sure all bystanders have cleared the area.



- f. If engine is not running, start engine, and press HEADER UP switch to raise header to maximum height.

NOTE

If one end of the header does not raise fully, the lift cylinders require re-phasing. If re-phasing is needed, proceed as follows:

1. Press and hold HEADER UP switch until both cylinders stop moving.
2. Continue to hold the switch for 3 - 4 seconds.
3. Cylinders are phased.



WARNING

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

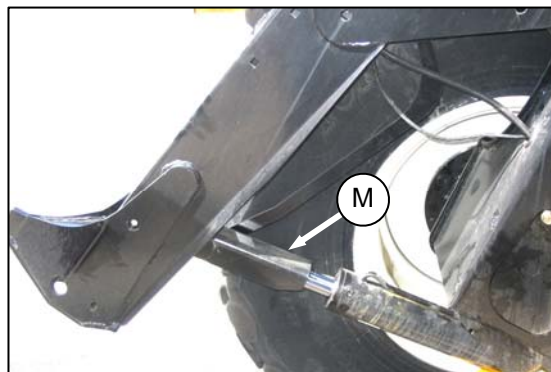
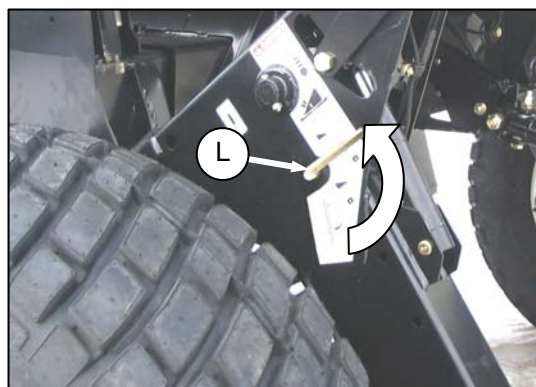


DANGER

To avoid bodily injury from fall of raised header, always engage header lift cylinder stops when working on or around raised header, and before going under header for any reason.

- g. Cylinder stops are located on both header lift cylinders on the windrower. Engage lift cylinder stops on both lift cylinders as follows:

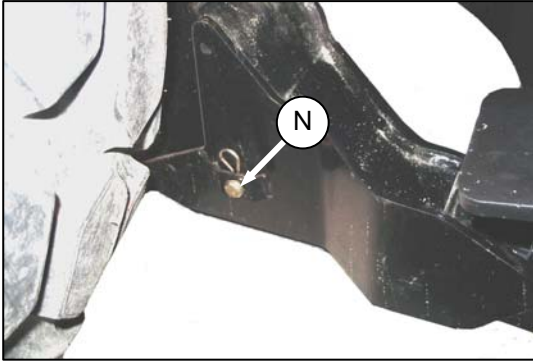
1. Stop engine, and remove key from ignition.



2. Pull lever (L), and rotate toward header to release and lower cylinder stop (M) onto cylinder.
3. Repeat for opposite lift cylinder.

(continued next page)

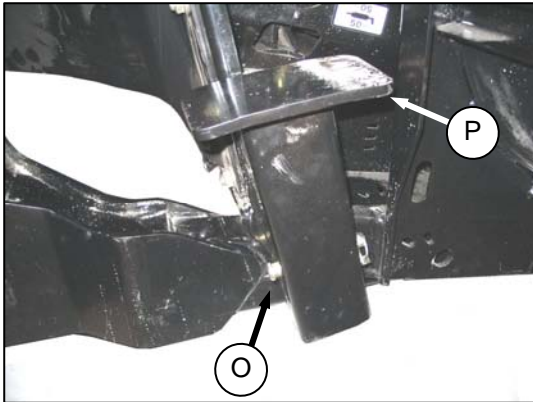
UNLOADING AND ASSEMBLY



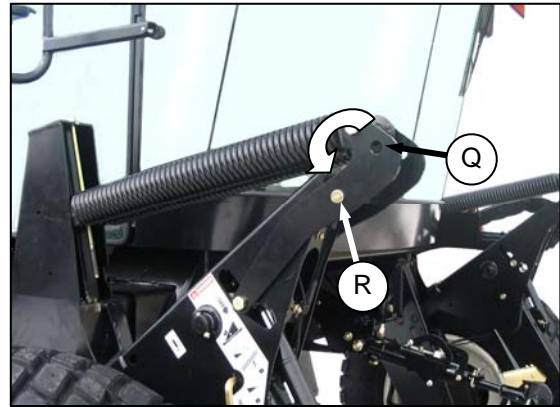
- h. Install pin (N) through each boot and foot, and secure with hairpin.

IMPORTANT

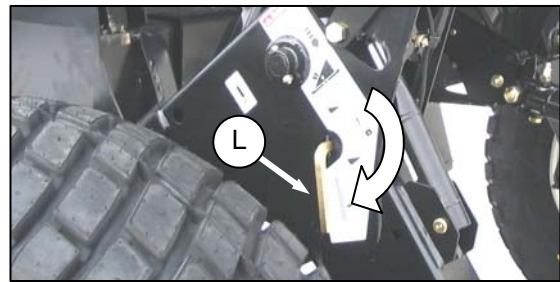
Ensure pin (N) is fully inserted, and hairpin is installed behind bracket.



- i. Remove lynch pin from pin (O) in stand (P).
- j. Hold stand (P), and remove pin (O).
- k. Re-position stand to "storage position" by inverting stand, and re-locating on bracket as shown
- l. Re-insert pin (O), and secure with lynch pin.



- m. Remove pin (Q) from "storage position" in linkage, and insert in hole (R) to engage float springs. Secure with lynch pin.

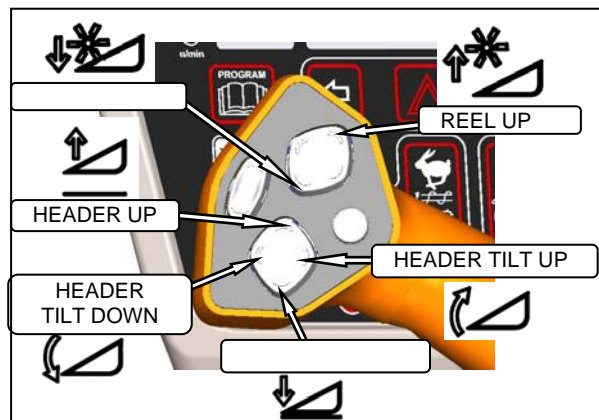


- n. Disengage lift cylinder stop by turning lever (L) downward to raise stop until lever locks into "vertical" position.
- o. Repeat for opposite cylinder stop.



CAUTION

Check to be sure all bystanders have cleared the area.



- p. Start engine, and activate HEADER DOWN switch on GSL to lower header fully.

(continued next page)

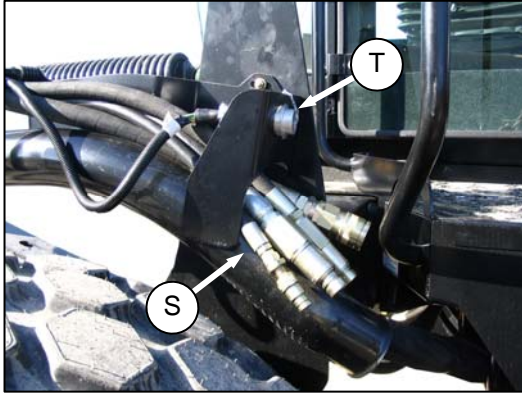
UNLOADING AND ASSEMBLY



WARNING

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

- q. Stop engine, and remove key.



- r. Connect header drive hydraulics (S) and electrical harness (T) to header. Refer to Auger Header Operator's Manual.

UNLOADING AND ASSEMBLY

C. HEADER ATTACHMENT: R SERIES

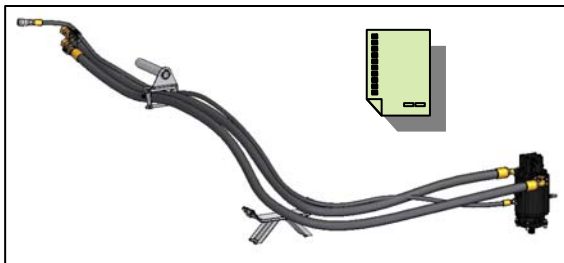


I. CONFIGURE HYDRAULICS

M205

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

R85 16 and 19 FT headers are factory-equipped with hydraulic connections for attachment to the M205 windrower.



KIT B5456

13 FT R80 and R85 headers need to be equipped with Kit B5456 (motor and hoses).

M155

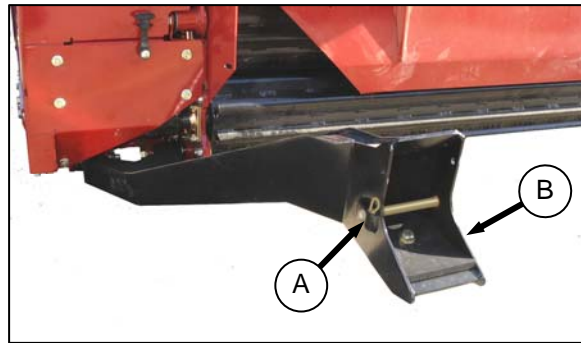


KIT B5510

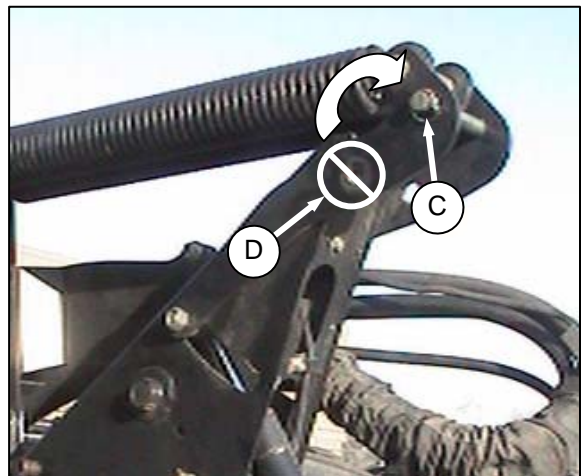
The M155 windrower operates only the R85 and R80 13 FT headers, and these headers need to be equipped with Kit B5510 (motor and hoses).

To operate these headers, the M155 windrower requires the installation of hydraulic valve Kit B4657.

II. ATTACH HEADER



- a. 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).

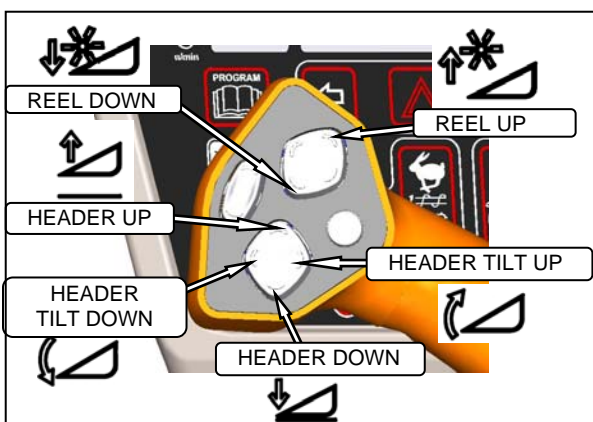
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UNLOADING AND ASSEMBLY



CAUTION

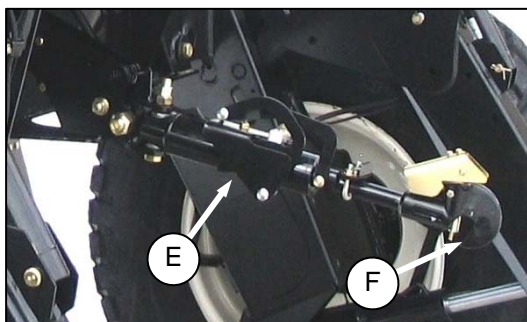
Check to be sure all bystanders have cleared the area.



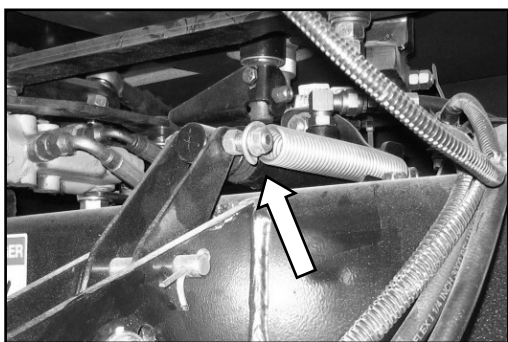
- b. Start engine, and activate HEADER DOWN button on the GSL to fully retract header lift cylinders.

IMPORTANT

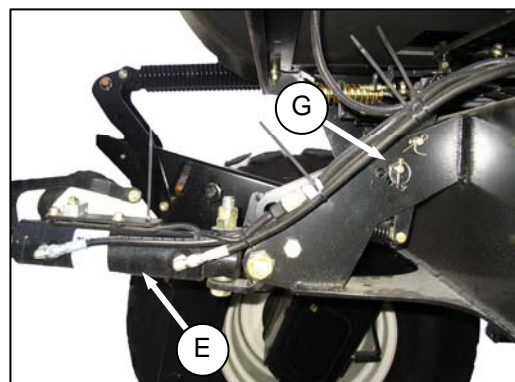
If the center link is too low, it may contact the header as the windrower approaches the header for hook-up.



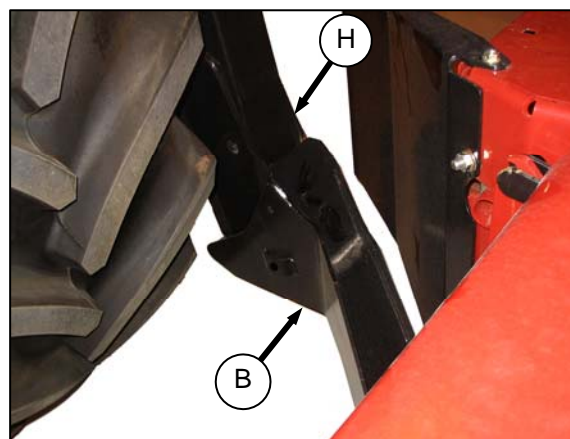
- c. If necessary, adjust position of the hydraulic center link (E) so that the hook (F) is above the attachment pin on the header by one of the following methods:



1. If the optional center link self-alignment kit is installed, activate the REEL UP switch on the GSL to raise the center link (E).



2. Without the self-alignment kit, re-locate the pin (G) at the frame linkage as required to raise the center link (E).



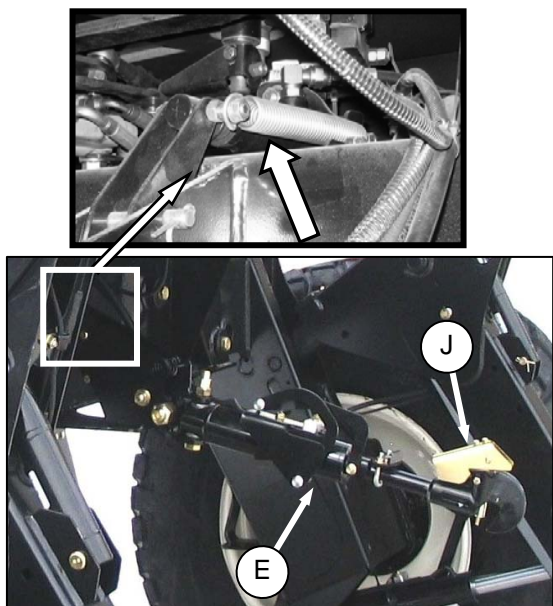
- d. Slowly drive windrower forward so that feet (H) on windrower enter boots (B) on the header.
- e. Continue to drive slowly forward until feet engage the boots, and header nudges forward.

(continued next page)

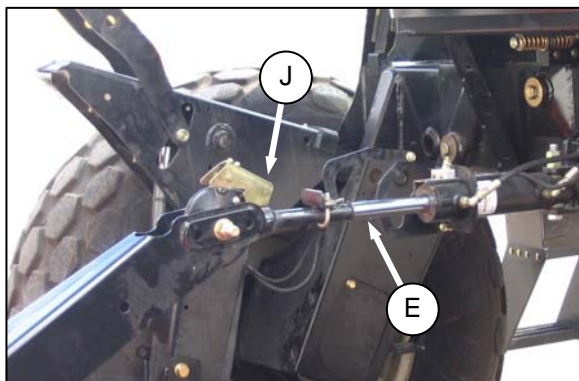
UNLOADING AND ASSEMBLY

- f. Connect center-link:

HYDRAULIC LINK WITH OPTIONAL SELF-ALIGNMENT KIT



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



IMPORTANT

Hook release (J) must be down to enable self-locking mechanism. If the release is open ("up"), manually push it down after hook engages header pin.

2. Push the REEL DOWN switch on the GSL to lower the center-link onto the header until it locks into position (release (J) is "down").
3. Check that center-link is locked onto header by pressing the REEL UP switch on the GSL.
4. Proceed to step g. on next page.

HYDRAULIC LINK WITHOUT SELF-ALIGNMENT KIT (M205 STANDARD, M155 OPTIONAL)

1. Activate HEADER TILT cylinder switches on GSL to extend or retract center-link cylinder (E) so that the hook lines-up with the header attachment pin.
2. Stop engine, and remove key from ignition.
3. Push down on rod end of link cylinder (E) until hook engages pin on header, and is locked.

IMPORTANT

Hook release (J) must be down to enable self-locking mechanism. If the release is open ("up"), manually push it down after hook engages header pin.

4. Check that center-link is locked onto header by pulling upward on rod end of cylinder.
5. Proceed to step g. on next page.

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UNLOADING AND ASSEMBLY

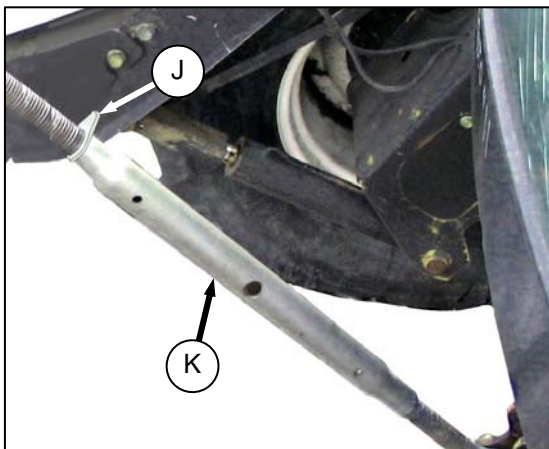
MECHANICAL LINK (M155 OPTIONAL)



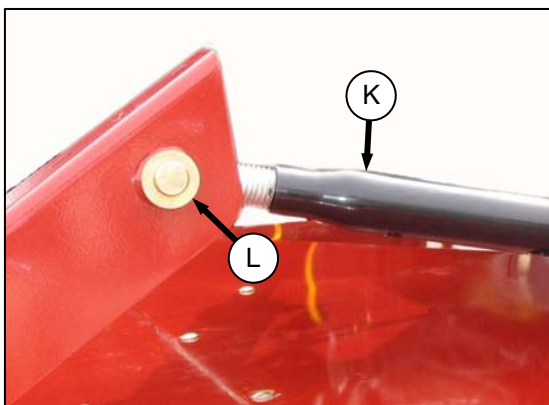
WARNING

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

1. Stop engine, and remove key from ignition.



2. Loosen nut (J), and rotate barrel (K), to adjust length so that other end lines-up with header bracket.

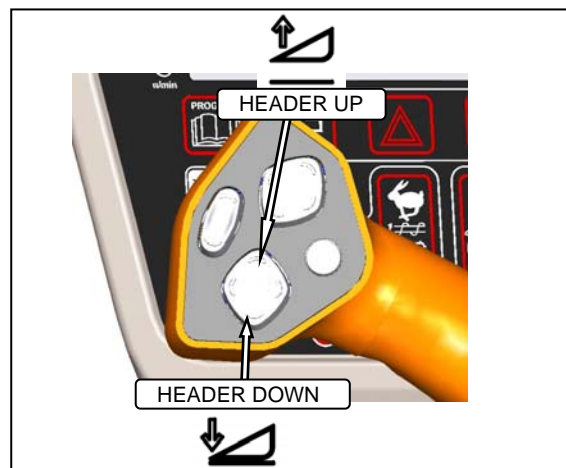


3. Install clevis pin (L), and secure with cotter pin.
4. Adjust link to required length for proper header angle by rotating barrel (K). Tighten nut (J) against barrel. A slight tap with a hammer is sufficient.



CAUTION

Check to be sure all bystanders have cleared the area.



- g. Start engine (if not running), and press HEADER UP switch to raise header to maximum height.

NOTE

If one end of the header does not raise fully, the lift cylinders require re-phasing. If re-phasing is needed, proceed as follows:

1. Press and hold HEADER UP switch until both cylinders stop moving.
2. Continue to hold the switch for 3 - 4 seconds.
3. Cylinders are phased.

(continued next page)

UNLOADING AND ASSEMBLY



DANGER

To avoid bodily injury from fall of raised header, always engage header lift cylinder stops when working on or around raised header, and before going under header for any reason.

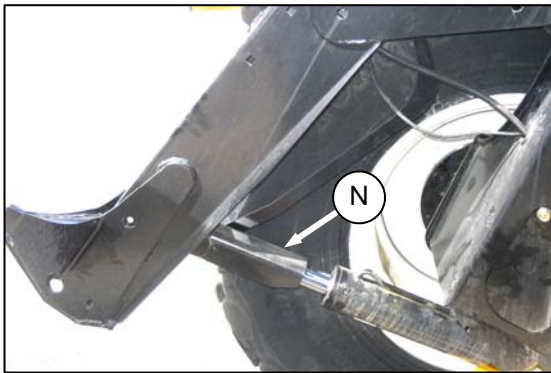
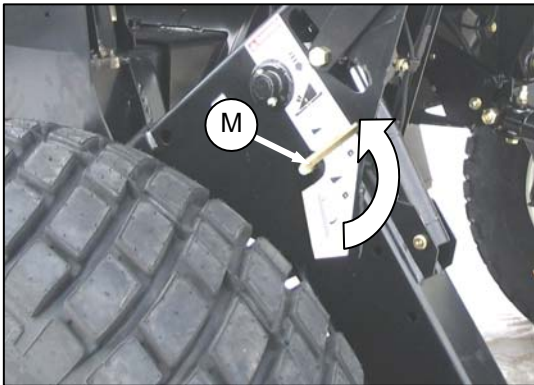
- h. Cylinder stops are located on both header lift cylinders on the windrower. Engage lift cylinder stops on both lift cylinders as follows:



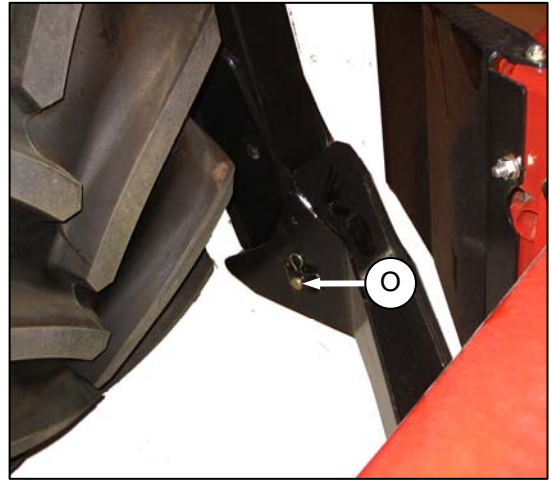
WARNING

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

1. Stop engine, and remove key from ignition.



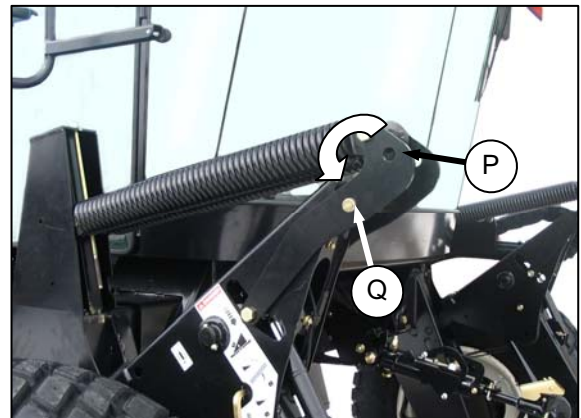
2. Pull lever (M), and rotate toward header to release and lower cylinder stop (N) onto cylinder.
3. Repeat for opposite lift cylinder.



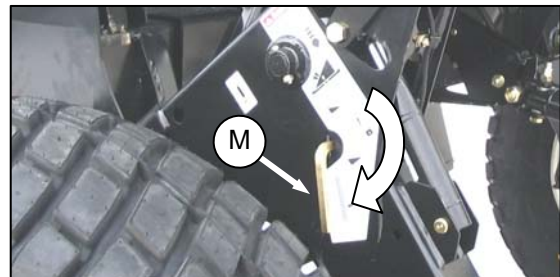
- i. Install pin (O) through each boot and foot, and secure with hairpin.

IMPORTANT

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



- j. Remove pin (P) from "storage position" in linkage, and insert in hole (Q) to engage float springs. Secure with hairpin.



- k. Disengage lift cylinder stops by turning lever (M) away downward to release and lower stop until lever locks into "vertical" position. Repeat for opposite lift cylinder stop.

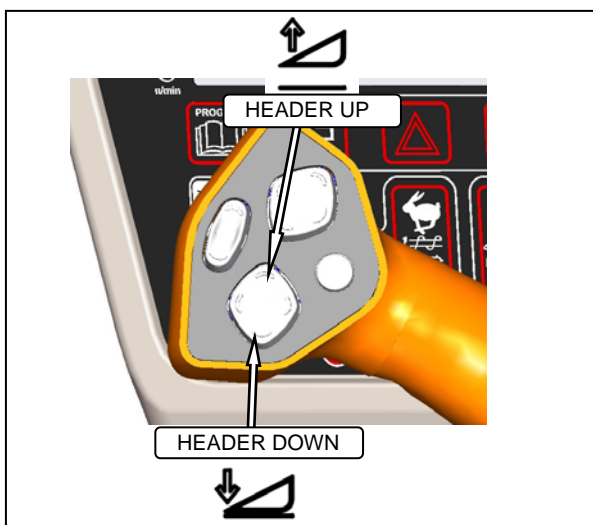
(continued next page)

UNLOADING AND ASSEMBLY



CAUTION

Check to be sure all bystanders have cleared the area.



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



WARNING

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

- m. Connect header drive hydraulics and electrical harness to header. Refer to your Rotary Disc Header Operator's Manual.

STEP 10. LUBRICATE MACHINE

Recommended Lubricant:

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

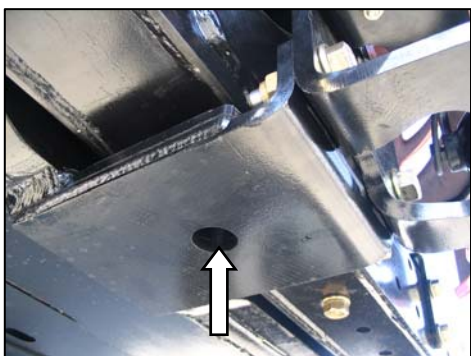
- a. Wipe grease fitting with a clean cloth before greasing, to avoid injecting dirt and grit.
- b. Inject grease through fitting with grease gun until grease overflows fitting, except where noted.
- c. Leave excess grease on fitting to keep out dirt.
- d. Replace any loose or broken fittings immediately.
- 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 to identify locations that require lubrication.

(continued next page)

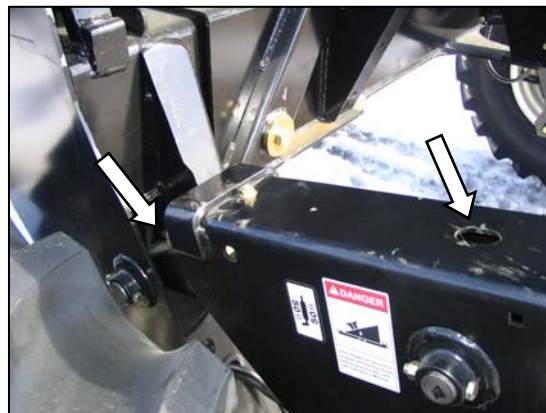
UNLOADING AND ASSEMBLY

Lubrication Points (cont'd)

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



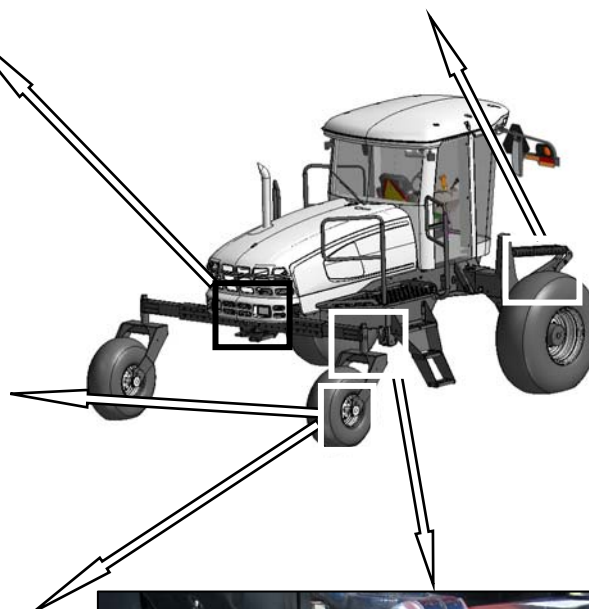
WALKING BEAM PIVOT)



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)

UNLOADING AND ASSEMBLY

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 ignition OFF.

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.

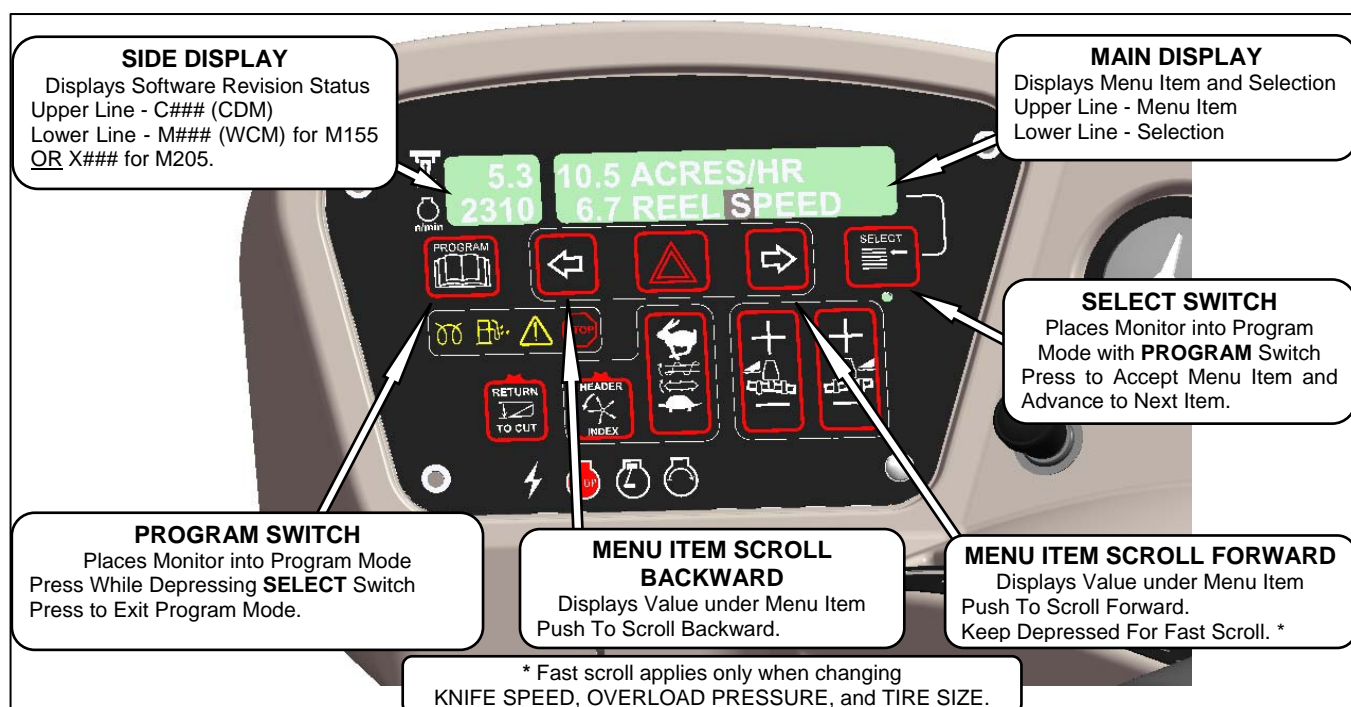
- Turn ignition key to RUN, or start the engine.
- Press PROGRAM and SELECT switches together on CDM to enter programming mode. Header ID code is displayed.
- Press SELECT. TRACTOR SETUP? is displayed.
- Press \rightarrow . SET KNIFE SPEED? is displayed.
- Press SELECT until DWA INSTALLED? is displayed.
- Press \leftarrow or \rightarrow .
- Press SELECT to advance to the next L1 item.
- Press PROGRAM to exit programming mode.
- Refer to Detailed Programming Instructions on following pages.

NOTE

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

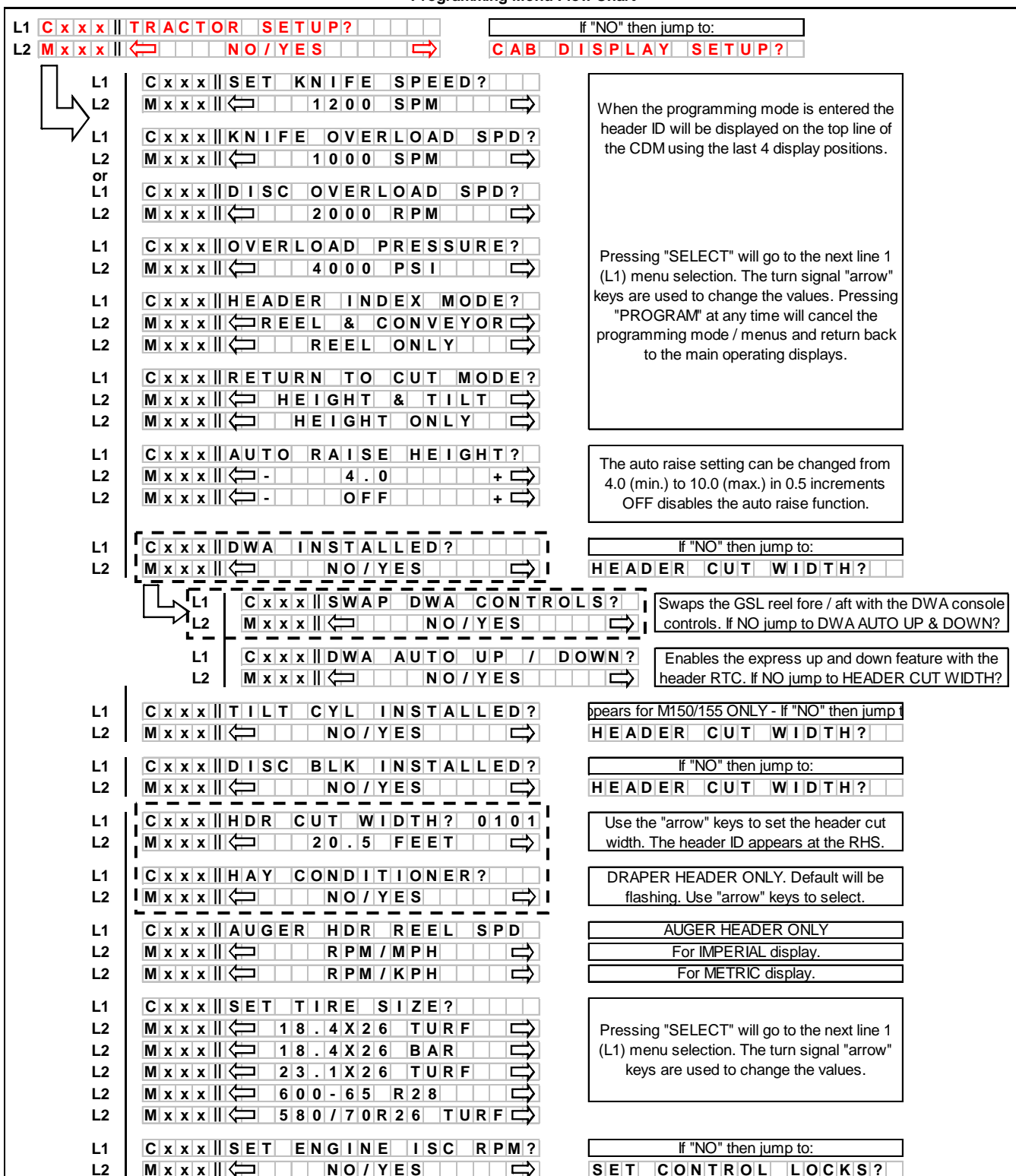
NOTE

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



DETAILED PROGRAMMING INSTRUCTIONS

For M205 with 6 cylinder Cummins, second line software version code displays as Xxxx.



UNLOADING AND ASSEMBLY

| | | | |
|---|---|---|--|
| <div style="margin-bottom: 10px;"> </div> | L1 C x x x P R E S S H A Z A R D T O S E T L2 M x x x I S C R P M O F F ← → | <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>This is used to set the Intermediate Speed Control function for the engine. The default or last selected rpm will be displayed first and will be flashing.</p> <p>The "arrow" keys are used to cycle between the selections. When "SELECT" is pressed the program goes to the EXIT ENGINE ISC? menu selection.</p> </div> | <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center;">If "NO" then jump to:</p> <p style="text-align: center;">P R E S S H A Z A R D T O S E T</p> </div> |
| | L1 C x x x P R E S S H A Z A R D T O S E T L2 M x x x I S C R P M 2 2 0 0 ← → | | |
| | L1 C x x x P R E S S H A Z A R D T O S E T L2 M x x x I S C R P M 2 0 0 0 ← → | | |
| | L1 C x x x P R E S S H A Z A R D T O S E T L2 M x x x I S C R P M 1 8 0 0 ← → | | |
| | L1 C x x x E X I T E N G I N E I S C ? L2 M x x x ← N O / Y E S → | | |
| L1 L2 | C x x x S E T C O N T R O L L O C K S ? M x x x ← N O / Y E S → | <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">If "NO" then jump to:</p> <p style="text-align: center;">V I E W C O N T R O L L O C K S ?</p> </div> | |
| <div style="margin-bottom: 10px;"> </div> | L1 C x x x H E A D E R T I L T L2 M x x x ← E N A B L E D / L O C K E D → | <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>This menu allows the operator to selectably "lock out" the control functions for the various header functions. The default or selected "status" for each item will flash.</p> <p>The "arrow" keys are used to ENABLE or LOCK OUT each function. Pressing "SELECT" will go to the next L1 menu item.</p> </div> | |
| | L1 C x x x H E A D E R F L O A T L2 M x x x ← E N A B L E D / L O C K E D → | | |
| | L1 C x x x R E E L F O R E / A F T L2 M x x x ← E N A B L E D / L O C K E D → | | |
| | L1 C x x x D R A P E R S P E E D L2 M x x x ← E N A B L E D / L O C K E D → | | |
| | L1 C x x x A U G E R S P E E D L2 M x x x ← E N A B L E D / L O C K E D → | | |
| | L1 C x x x K N I F E S P E E D L2 M x x x ← E N A B L E D / L O C K E D → | | |
| | L1 C x x x D I S K S P E E D L2 M x x x ← E N A B L E D / L O C K E D → | | |
| | L1 C x x x R E E L S P E E D L2 M x x x ← E N A B L E D / L O C K E D → | | |
| | L1 C x x x E X I T C O N T R O L L O C K S ? L2 M x x x ← N O / Y E S → | <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">If "NO" then jump to:</p> <p style="text-align: center;">H E A D E R T I L T</p> </div> | |
| L1 L2 | C x x x V I E W C O N T R O L L O C K S ? M x x x ← N O / Y E S → | <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">If "NO" then jump to:</p> <p style="text-align: center;">E X I T T R A C T O R S E T U P ?</p> </div> | |
| <div style="margin-bottom: 10px;"> </div> | L1 C x x x H E A D E R T I L T ← → L2 M x x x 5 7 5 . 1 H R S E N A B L E D L2 M x x x 6 4 8 . 6 H R S L O C K E D | <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>When the control lock outs are viewed the lower display line (L2) will show the engine hours and either ENABLED or LOCKED to indicate the present status along with the engine hours at which time the function was either ENABLED or LOCKED.</p> <p>Using the "arrow" keys allows the operator to select the various functions. Pressing "SELECT" will go to the EXIT VIEW LOCKOUTS? menu selection.</p> </div> | |
| | L1 C x x x H E A D E R F L O A T ← → L2 M x x x 5 7 5 . 1 H R S E N A B L E D L2 M x x x 6 4 8 . 6 H R S L O C K E D | | |
| | L1 C x x x R E E L F O R E / A F T ← → L2 M x x x 5 7 5 . 1 H R S E N A B L E D L2 M x x x 6 4 8 . 6 H R S L O C K E D | | |
| | L1 C x x x D R A P E R S P E E D ← → L2 M x x x 5 7 5 . 1 H R S E N A B L E D L2 M x x x 6 4 8 . 6 H R S L O C K E D | | |
| | L1 C x x x A U G E R S P E E D ← → L2 M x x x 5 7 5 . 1 H R S E N A B L E D L2 M x x x 6 4 8 . 6 H R S L O C K E D | | |

(continued next page)

UNLOADING AND ASSEMBLY

| | | | |
|----|--------------------------------|---|--|
| L1 | C x x x KNIFE SPEED | ↔ | |
| L2 | M x x x 575.1 HRS ENABLED | | |
| L2 | M x x x 648.6 HRS LOCKED | | |
| L1 | C x x x DISK SPEED | ↔ | |
| L2 | M x x x 575.1 HRS ENABLED | | |
| L2 | M x x x 648.6 HRS LOCKED | | |
| L1 | C x x x REEL SPEED | ↔ | |
| L2 | M x x x 575.1 HRS ENABLED | | |
| L2 | M x x x 648.6 HRS LOCKED | | |
| L1 | C x x x EXIT VIEW LOCKOUTS? | | |
| L2 | M x x x NO / YES | | |
| | | If "NO" then jump to: HEADER TILT ↔ | |
| L1 | C x x x EXIT TRACTOR SETUP? | | |
| L2 | M x x x NO / YES | | |
| | | If "NO" then jump to: SET KNIFE SPEED? | |

| | | | |
|----|-------------------------------|---|--|
| L1 | C x x x CAB DISPLAY SETUP? | | |
| L2 | M x x x NO / YES | | |
| | | If "NO" then jump to: CALIBRATE SENSORS? | |

| | | | |
|----|--------------------------------|--|--|
| L1 | C x x x DISPLAY LANGUAGE? | | |
| L2 | M x x x ENGLISH | | |
| L2 | M x x x ESPANOL | | |
| L1 | C x x x DISPLAY UNITS? | | |
| L2 | M x x x IMPERIAL | | |
| L2 | M x x x METRIC | | |
| L1 | C x x x CDM BUZZER VOLUME | | |
| L2 | M x x x | | |
| L1 | C x x x CDM BACKLIGHTING | | |
| L2 | M x x x | | |
| L1 | C x x x CDM CONTRAST | | |
| L2 | M x x x | | |
| L1 | C x x x EXIT DISPLAY SETUP? | | |
| L2 | M x x x NO / YES | | |
| | | If "NO" then jump to: DISPLAY LANGUAGE? | |

| | | | |
|----|-------------------------------|---|--|
| L1 | C x x x CALIBRATE SENSORS? | | |
| L2 | M x x x NO / YES | | |
| | | If "NO" then jump to: DIAGNOSTIC MODE? | |

| | | | |
|----|--------------------------------|--|--|
| L1 | C x x x TO CALIBRATE SELECT | | |
| L2 | M x x x HEADER HEIGHT | | |
| L2 | M x x x HEADER TILT | | |
| L2 | M x x x HEADER FLOAT | | |
| L2 | M x x x EXIT CAL? NO / YES | | |
| L1 | C x x x HEIGHT SENSOR CAL | | |
| L2 | M x x x RAISE HDR TO START | | |
| L1 | C x x x CALIBRATING HEIGHT | | |
| L2 | M x x x RAISE HEADER HOLD | | |
| L2 | M x x x HEADER RAISE DONE | | |
| L1 | C x x x CALIBRATING HEIGHT | | |
| L2 | M x x x LOWER HEADER HOLD | | |
| L2 | M x x x HT SENSOR COMPLETE | | |
| L1 | C x x x TO CALIBRATE SELECT | | |
| L2 | M x x x HEADER HEIGHT | | |
| L2 | M x x x HEADER TILT | | |
| L2 | M x x x HEADER FLOAT | | |
| L2 | M x x x EXIT CAL? NO / YES | | |

Use the "arrow" keys to change the default language. Pressing "SELECT" goes to the next L1 menu selection.

The "arrow" keys are used to select between IMPERIAL or METRIC. The default value will be displayed first.

The "arrow" keys are used to change the CDM buzzer volume, CDM backlighting or the CDM contrast, with the bar graph indicating the relative level for each item. When "SELECT" is pressed the program goes to the EXIT DISPLAY SETUP? menu selection.

If "NO" then jump to:
DISPLAY LANGUAGE?

The operator can select any of the three items requiring calibration (or exit the CAL menu) by using the turn signal switches to cycle through the choices. Pressing SELECT will take the operator to the calibration menu for that particular sensor.

The display will indicate the sensor being calibrated. The operator will be prompted to raise the header and HOLD will flash until the system has completed reading in the signal with the header fully raised. HOLD will change to DONE (with buzzer).

When the header raise is done, the CDM will prompt the user to lower the header. COMPLETE (with buzzer) will flash on the screen for 2 seconds when the calibration is finished.

The operator can select any of the three items requiring calibration (or exit the CAL menu) by using the turn signal switches to cycle through the choices. Pressing SELECT will take the operator to the calibration menu for that particular sensor.

(continued next page)

UNLOADING AND ASSEMBLY

| | | | | | |
|----|---------|--|---------------------------------------|--|---|
| L1 | C x x x | | H D R T I L T S E N S O R C A L | | <p>The display will indicate the sensor being calibrated. The operator will be prompted to extend the header tilt and HOLD will flash until the system has completed reading in the signal with the header tilt fully extended. HOLD will change to DONE (with buzzer).</p> |
| L2 | M x x x | | E X T E N D T L T T O S T A R T | | |
| | | | | | |
| L1 | C x x x | | C A L I B R A T I N G T I L T | | <p>When the header tilt extend is done, the CDM will prompt the user to press the header tilt retract. COMPLETE (with buzzer) will flash on the screen for 2 seconds when the calibration is finished.</p> |
| L2 | M x x x | | E X T E N D T I L T H O L D | | |
| L2 | M x x x | | E X T E N D T I L T D O N E | | |
| | | | | | |
| L1 | C x x x | | C A L I B R A T I N G T I L T | | <p>The operator can select any of the three items requiring calibration (or exit the CAL menu) by using the turn signal switches to cycle through the choices. Pressing SELECT will take the operator to the calibration menu for that particular sensor.</p> |
| L2 | M x x x | | ← H E A D E R H E I G H T → | | |
| L2 | M x x x | | ← H E A D E R T I L T → | | |
| L2 | M x x x | | ← H E A D E R F L O A T → | | <p>The display will indicate the sensor being calibrated. The operator will be prompted to press the float (+) and HOLD will flash until the system has completed reading in the signal with the header float fully extended. HOLD will change to DONE (with buzzer).</p> |
| L2 | M x x x | | E X I T C A L ? ← N O / Y E S → | | |
| | | | | | |
| L1 | C x x x | | C A L I B R A T I N G F L O A T | | <p>When the header float (+) is done, the CDM will prompt the user to press the header float (-). COMPLETE (with buzzer) will flash on the screen for 2 seconds when the calibration is finished.</p> |
| L2 | M x x x | | P R E S S F L T + T O S T A R T | | |
| | | | | | |
| L1 | C x x x | | C A L I B R A T I N G F L O A T | | <p>Select any of the sensors by using the turn signal switches to cycle through the choices. Pressing SELECT will take the operator to the calibration menu for that particular sensor. NO is the default for EXIT CAL?. If "NO" then jump to:</p> |
| L2 | M x x x | | F L O A T (+) H O L D | | |
| L2 | M x x x | | F L O A T (+) D O N E | | |
| | | | | | |
| L1 | C x x x | | C A L I B R A T I N G F L O A T | | <p>TO CALIBRATE SELECT</p> |
| L2 | M x x x | | F L O A T (-) H O L D | | |
| L2 | M x x x | | H D R F L O A T C O M P L E T E | | |
| | | | | | |
| L2 | C x x x | | T O C A L I B R A T E S E L E C T | | <p>If "NO" then jump to:</p> |
| L2 | M x x x | | ← H E A D E R H E I G H T → | | |
| L2 | M x x x | | ← H E A D E R T I L T → | | |
| L1 | M x x x | | ← H E A D E R F L O A T → | | <p>ENTER SENSOR SETUP?</p> |
| L2 | M x x x | | E X I T C A L ? ← N O / Y E S → | | |
| | | | | | |
| | | | | | |
| L1 | C x x x | | D I A G N O S T I C M O D E ? | | <p>If "NO" then jump to:</p> |
| L2 | M x x x | | ← N O / Y E S → | | |
| | | | | | |
| | | | | | |
| L1 | C x x x | | V I E W E R R O R C O D E S ? | | <p>If "NO" then jump to:</p> |
| L2 | M x x x | | ← N O / Y E S → | | |
| | | | | | |
| | | | | | |
| L1 | C x x x | | V I E W T R A C T O R C O D E S ? | | <p>If "NO" then jump to:</p> |
| L2 | M x x x | | ← N O / Y E S → | | |
| | | | | | |
| | | | | | |
| L1 | 1 | | 1 2 3 4 . 5 H R S 1 2 3 ← → | | <p>The last 10 distinct error codes are stored along with the code #, Exxx, engine hours and number of occurrences. The "arrow" keys are used to cycle between codes.</p> |
| L2 | E 4 7 | | S E N S O R V O L T S L O W | | |
| | | | | | |
| L1 | 2 | | 1 2 3 0 . 5 H R S 1 2 3 ← → | | <p>If "NO" then jump to the first error code logged.</p> |
| L2 | E 7 1 | | L O W H Y D R A U L I C O I L | | |
| | | | | | |
| | | | | | |
| L1 | C x x x | | E X I T T R A C T O R C O D E S ? | | <p>If "NO" then jump to:</p> |
| L2 | M x x x | | ← N O / Y E S → | | |
| | | | | | |
| | | | | | |
| L1 | C x x x | | V I E W E N G I N E C O D E S ? | | <p>The last 10 distinct error codes are stored.</p> |
| L2 | M x x x | | ← N O / Y E S → | | |
| | | | | | |
| | | | | | |
| L1 | 1 | | | | |

(continued next page)

UNLOADING AND ASSEMBLY

| | | | | |
|----|--|--------------------------------|--|---|
| L1 | | C x x x ENTER SENSOR SETUP? | | If "NO" then jump to: (continued next page) |
| L2 | | M x x x ← NO / YES → | | READ SENSOR INPUTS? |

| | | | | |
|----|--|---------------------------------|--|---|
| L1 | | C x x x KNIFE SPEED SENSOR | | <p>The operator can select each sensor and selectively enable or disable the sensor. This can be used to disable a failed sensor to eliminate false or erratic display readings.</p> <p>When "SELECT" is pressed the program goes to the EXIT SENSOR SETUP? menu selection.</p> |
| L2 | | M x x x ← ENABLE / DISABLE → | | |

| | | | | |
|----|--|---------------------------------|--|--|
| L1 | | C x x x REEL SPEED SENSOR | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x ← ENABLE / DISABLE → | | |

| | | | | |
|----|--|---------------------------------|--|--|
| L1 | | C x x x HEADER HT SENSOR | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x ← ENABLE / DISABLE → | | |

| | | | | |
|----|--|---------------------------------|--|--|
| L1 | | C x x x HEADER TILT SENSOR | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x ← ENABLE / DISABLE → | | |

| | | | | |
|----|--|---------------------------------|--|--|
| L1 | | C x x x HEADER FLOAT SENSOR | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x ← ENABLE / DISABLE → | | |

| | | | | |
|----|--|---------------------------------|--|--|
| L1 | | C x x x OVERLOAD PRESSURE | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x ← ENABLE / DISABLE → | | |

| | | | | |
|----|--|---------------------------------|--|--|
| L1 | | C x x x HYD OIL TEMP SENSOR | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x ← ENABLE / DISABLE → | | |

| | | | | |
|----|--|-------------------------------|--|--|
| L1 | | C x x x EXIT SENSOR SETUP? | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x ← NO / YES → | | |

| | | | | |
|----|--|--------------------------------|--|-----------------------|
| L1 | | C x x x READ SENSOR INPUTS? | | If "NO" then jump to: |
| L2 | | M x x x ← NO / YES → | | ACTIVATE FUNCTIONS? |

| | | | | |
|----|--|---------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>For diagnostic purposes each sensors input signal can be read. This helps in determining how each sensor is operating and if the proper output voltages are being received by the control system.</p> |
| L2 | | M x x x HDR HEIGHT 3 . 5 9 V | | |

| | | | | |
|----|--|--------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x HDR ANGLE 1 . 8 4 V | | |

| | | | | |
|----|--|--------------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x 2 . 4 5 V FLOAT 2 . 8 4 V | | |

| | | | | |
|----|--|----------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x KNIFE SPEED 1 2 3 H Z | | |

| | | | | |
|----|--|---------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x REEL SPEED 1 2 3 H Z | | |

| | | | | |
|----|--|----------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x WHEEL SPEED 1 2 3 H Z | | |

| | | | | |
|----|--|-----------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x HYD OIL TEMP 1 . 0 0 V | | |

| | | | | |
|----|--|-------------------------------|--|--|
| L1 | | C x x x EXIT READ SENSORS? | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x ← NO / YES → | | |

| | | | | |
|----|--|------------------------------|--|---|
| L1 | | C x x x SENSOR INPUT | | <p>If a sensor has been disabled "SENSOR" will be flashing in the area where the input reading would have been.</p> |
| L2 | | M x x x HDR HEIGHT SENSOR | | |

| | | | | |
|----|--|-----------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x HDR ANGLE SENSOR | | |

| | | | | |
|----|--|-----------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x 2 . 4 5 V FLOAT SENSOR | | |

| | | | | |
|----|--|-------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x KNIFE SPEED SENSOR | | |

| | | | | |
|----|--|------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x REEL SPEED SENSOR | | |

| | | | | |
|----|--|--------------------------------|--|--|
| L1 | | C x x x SENSOR INPUT | | <p>NOTE: Oil temp. readouts apply to models with the Sensata oil temp. sensor.</p> |
| L2 | | M x x x HYD OIL TEMP SENSOR | | |

UNLOADING AND ASSEMBLY

| | | |
|--|---|-----------------------|
| L1 | C x x x ACTIVATE FUNCTIONS? | If "NO" then jump to: |
| L2 | M x x x <input type="button" value="←"/> NO / YES <input type="button" value="→"/> | FORCE HEADER TYPE? |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p> L1 <input type="button" value="↩"/> C x x x ACTIVATE FUNCTIONS? L2 M x x x HEADER <input type="button" value="←"/> DOWN / UP <input type="button" value="→"/> L1 C x x x ACTIVATE FUNCTIONS? L2 M x x x REEL <input type="button" value="←"/> DOWN / UP <input type="button" value="→"/> L1 C x x x ACTIVATE FUNCTIONS? L2 M x x x HDR TILT <input type="button" value="←"/> IN / OUT <input type="button" value="→"/> L1 C x x x ACTIVATE FUNCTIONS? L2 M x x x KNIFE DRIVE ON <input type="button" value="→"/> L1 C x x x ACTIVATE FUNCTIONS? L2 M x x x DRAPER / AUGER ON <input type="button" value="→"/> L1 C x x x ACTIVATE FUNCTIONS? L2 M x x x REEL <input type="button" value="←"/> FORE / AFT <input type="button" value="→"/> L1 C x x x ACTIVATE FUNCTIONS? L2 M x x x DWA DRIVE ON <input type="button" value="→"/> L1 C x x x ACTIVATE HYD PURGE? L2 M x x x <input type="button" value="←"/> NO / YES <input type="button" value="→"/> L1 C x x x TO ACTIVATE PURGE L2 M x x x PRESS AND HOLD <input type="button" value="→"/> L1 C x x x PURGE CYCLE STARTED L2 M x x x PRESS AND HOLD <input type="button" value="→"/> L1 C x x x PURGE CYCLE ENDED L2 M x x x <input type="button" value="←"/> NO EXIT YES <input type="button" value="→"/> L1 C x x x PURGE CYCLE ENDED L2 M x x x <input type="button" value="←"/> NO EXIT YES <input type="button" value="→"/> L1 C x x x EXIT FUNCTION MENU? L2 M x x x <input type="button" value="←"/> NO / YES <input type="button" value="→"/> </p> </div> <div style="width: 35%;"> <p>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.</p> <p>If a disk header is detected then the nomeclature should read: DISC DRIVE instead of KNIFE DRIVE.</p> <p>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.</p> <p>The DWA menu selection should only be available if the DWA INSTALLED? is set to YES.</p> <p>ACTIVATE HYD PURGE - This is to allow the operator to purge the air from a new or changed pump system.</p> <p>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.</p> <p>If "NO" then jump to: HEADER <input type="button" value="←"/> DOWN / UP <input type="button" value="→"/></p> </div> </div> | | |
| L1 | C x x x FORCE HEADER TYPE? | If "NO" then jump to: |
| L2 | M x x x <input type="button" value="←"/> NO / YES <input type="button" value="→"/> | EXIT DIAGNOSTICS? |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p> L1 <input type="button" value="↩"/> C x x x SELECT HEADER TYPE L2 M x x x <input type="button" value="←"/> DISC HEADER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> SK AUGER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> DK AUGER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> GRASS SEED <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 20 FT SK DRAPER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 25 FT SK DRAPER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 30 FT SK DRAPER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 35 FT SK DRAPER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 15 FT DK DRAPER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 20 FT DK DRAPER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 25 FT DK DRAPER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 30 FT DK DRAPER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 35 FT DK DRAPER <input type="button" value="→"/> L2 M x x x <input type="button" value="←"/> 40 FT DK DRAPER <input type="button" value="→"/> L1 C x x x EXIT HEADER TYPE? L2 M x x x <input type="button" value="←"/> NO / YES <input type="button" value="→"/> L1 C x x x EXIT DIAGNOSTICS? L2 M x x x <input type="button" value="←"/> NO / YES <input type="button" value="→"/> </p> </div> <div style="width: 35%;"> <p>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.</p> <p>When "SELECT" is pressed the program goes to the EXIT HEADER TYPE? menu selection.</p> <p>If "NO" then jump to: FORCE HEADER TYPE?</p> <p>If "NO" then jump to: DIAGNOSTIC MODE?</p> </div> </div> | | |

END

PRE-DELIVERY CHECKS

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.

- Perform final checks and adjustments as listed on the "Pre-Delivery Checklist" (yellow sheet attached to back of this instruction) to ensure the machine is field-ready. Refer to referenced pages for detailed instructions as indicated on the Checklist.
- The completed Checklist should be retained either by the Operator or the Dealer.

NOTE

The majority of checks and adjustments are performed during the set-up procedures. The following additional inspections should be performed after the set-up is complete.

A. SERIAL NUMBERS



- Record windrower and engine serial numbers on the Checklist.

B. FINAL DRIVE LUBRICANT LEVEL



- Rotate drive wheel so that one of the plugs is horizontally aligned with the center of the hub.
- Remove the plug. Oil should be visible through the hole or slightly running out.

C. TIRE PRESSURE AND BALLAST

I. TIRE PRESSURES

Measure tire pressure with a gauge.

| TIRE TYPE | SIZE | PRESSURE |
|-----------|-------------|------------------|
| Bar | 18.4 - 26 | 32 psi (221 kPa) |
| | 600 - 65R28 | 26 psi (179 kPa) |
| Turf | 18.4 - 26 | 35 psi (241 kPa) |
| | 23.1 - 26 | 20 psi (138 kPa) |
| | 580/70R26 | 24 psi (165 kPa) |

All Rear Tire Pressures are 10 psi (60 kPa).

II. BALLAST REQUIREMENTS

- Fluid ballasting of rear caster tires is recommended to provide adequate machine stability when using large headers on the windrower.
- 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 | TOTAL WEIGHT * OF BOTH TIRES |
|-------------|----------------------------|------------------------------|
| 7.5 X 16 | 10 US Gal (38 L) | 200 lb (91 L) |
| 10 X 16 | 18 US Gal (69L) | 380 lb (170 L) |
| 16.5 X 16.1 | 41 US Gal (158L) | 830 lb (377 L) |

* 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).

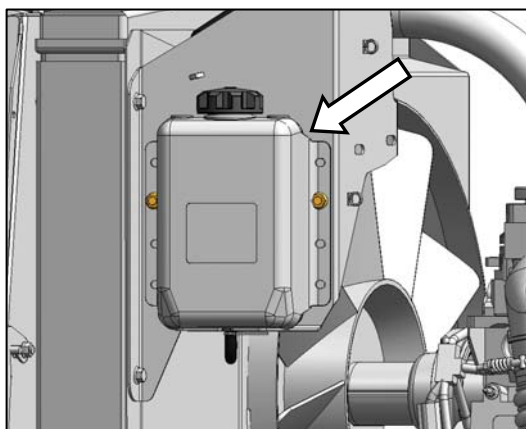
(continued next page)

PRE-DELIVERY CHECKS

| 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 Series and R Series | All | 0 | | | | 7.5 X 16 |
| | 25 FT and Down | | | | | or |
| D Series | 30 FT Single or Split Reel without Conditioner. | 0 | 0 | 10 (38) | 200 (91) | 10 X 16 |
| | 35 FT Single Reel | | | | | or |
| | 30 FT Split Reel Steel Fingers and Conditioner. | 18 (69) | 380 (170) | 30 (115) | 630 (288) | 16.5 X 16.1 |
| | 35 FT Split Reel (5 or 6-Bat) | | | | | |
| | 40 FT | 30 (115) | 630 (288) | 41 (158) | 830 (377) | Level Ground: 7.5 X 16 or 10 X 16 |
| | | | | | | Hills: 16.5 X 16.1 |
| | | | | | | 16.5 X 16.1 |

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

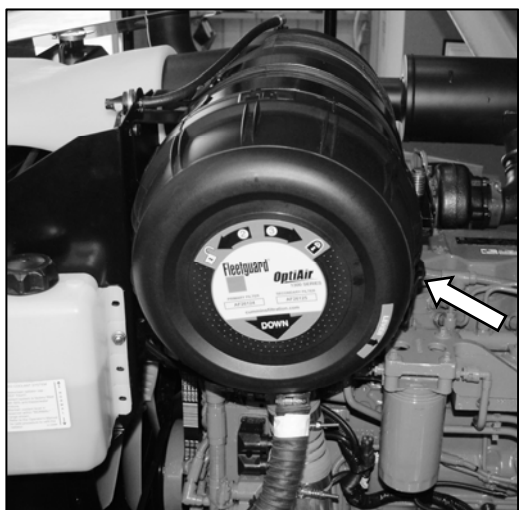
D. ENGINE COOLANT



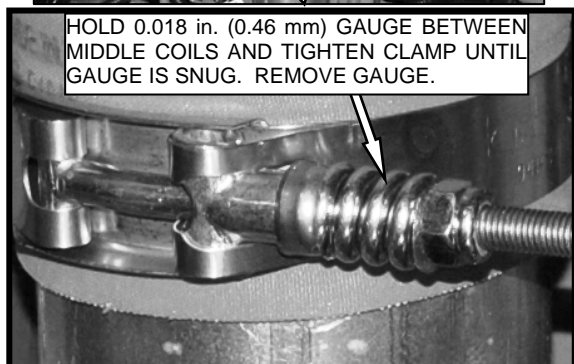
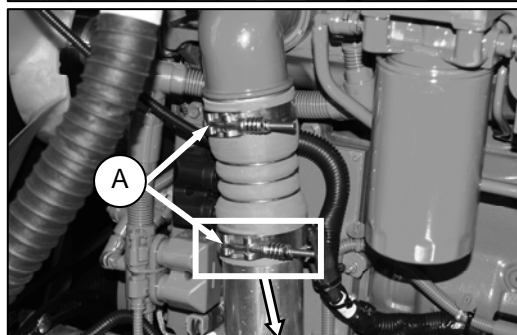
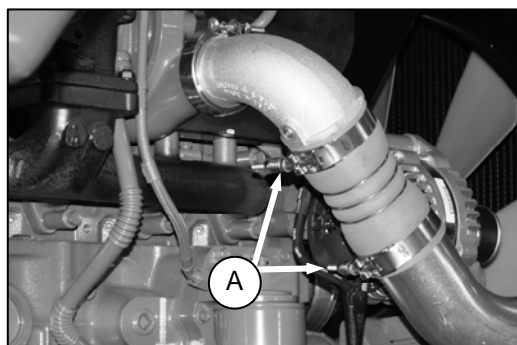
- a. Check coolant level in the coolant recovery tank. Tank should be at least one-half full.
- b. Check coolant concentration in the radiator. Coolant should be rated for temperatures of -30°F (-34°C).

PRE-DELIVERY CHECKS

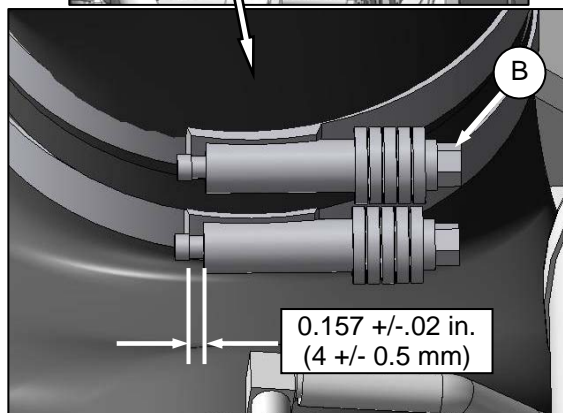
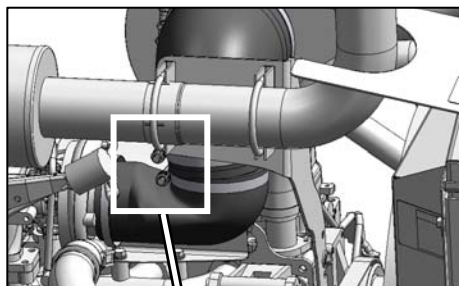
E. AIR CLEANER



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

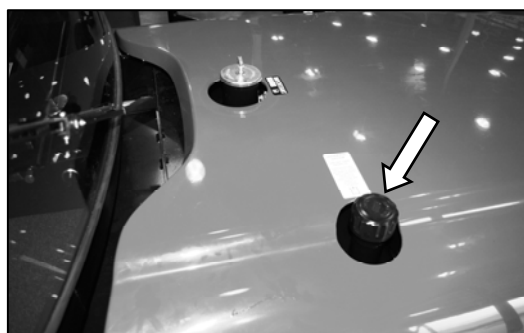


- b. Check spring clamps (A) on charge air cooling duct connections (at turbocharger outlet, engine intake, and inside cooling box).

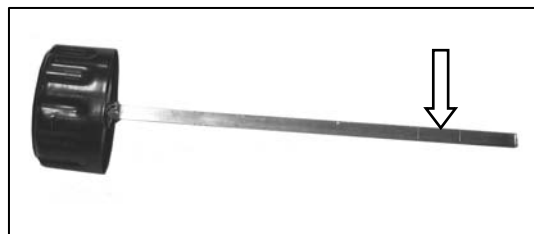


- c. Check constant torque type clamps (B). Gap should be as shown above.

F. HYDRAULIC OIL LEVEL



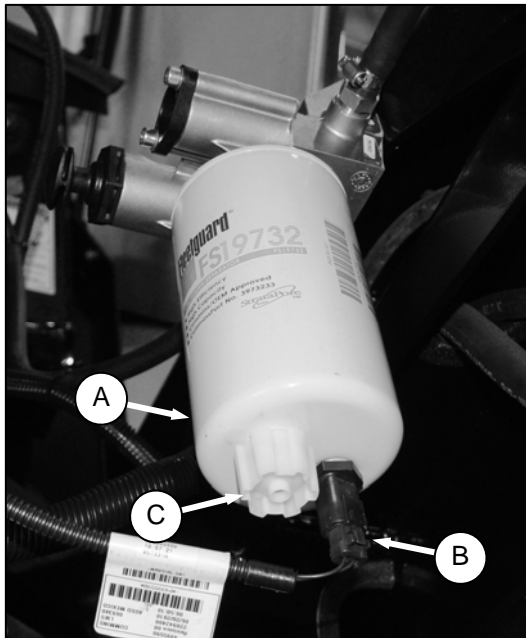
- a. Turn filler cap counter-clockwise to unlock cap, and remove dipstick.



- b. Check that level is between LOW and FULL marks.
c. Re-install dipstick, and turn clockwise to lock cap.

PRE-DELIVERY CHECKS

G. FUEL SEPARATOR

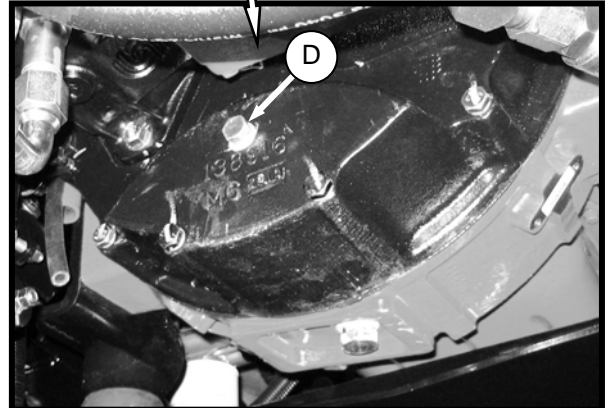


A fuel water separator is incorporated into the primary fuel filter (A). The separator is equipped with a sensor (B) (that detects water in the fuel, and alerts the Operator on the CDM), and a drain (C).

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

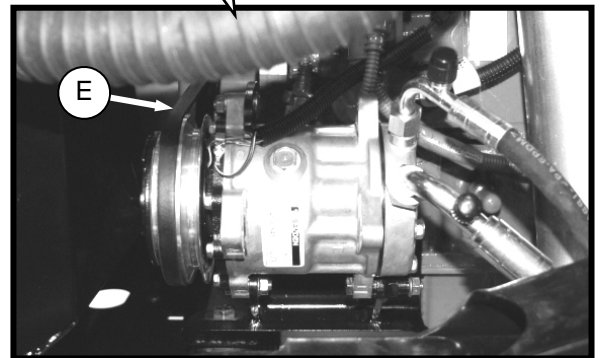
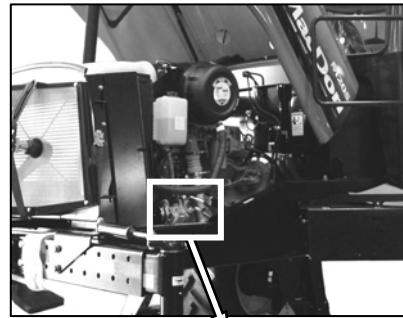
- Place a container under filter drain (C).
- Turn drain valve by hand 1-1/2 to 2 turns counter clockwise, until draining occurs.
- Drain the filter sump of water and sediment until clear fuel is visible. Clean as necessary.
- Turn valve clockwise to close the drain (C).
- Safely dispose of fluid.

H. GEAR BOX LUBRICANT LEVEL



- Remove plug (D). Lubricant should be visible through the hole, or slightly running out.
- Replace plug, and tighten.

I. A/C COMPRESSOR BELT



- Tension on A/C compressor belt (E) 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.

PRE-DELIVERY CHECKS

J. PERFORM SAFETY SYSTEM CHECKS

Ensure battery main disconnect switch is switched to POWER ON position. Refer to *Section K. OPERATIONAL CHECKS*.



CAUTION

Check to be sure all bystanders have cleared the area.

A properly functioning system should operate as follows:

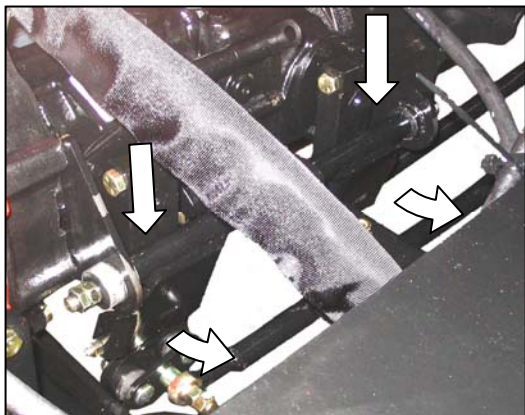
- The starter should engage ONLY when the GSL is in N-DETENT, the steering wheel is locked in the CENTER position, and the HEADER DRIVE switch is in the OFF position.
- Under the above conditions, the brake should engage, and the machine should not move after engine start-up.
- The steering wheel should 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 3/4 inch (19 mm) thick between the other channel and the 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.
6. If the engine turns over, the system requires adjustment. Refer to the Technical Service Manual.
7. Remove key.
8. Remove wood block inserted at step 3 above, and close hood.



CAUTION

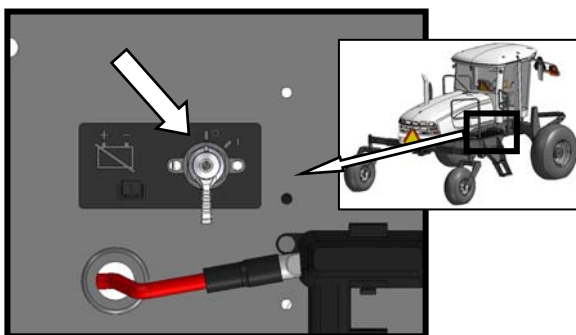
Check to be sure all bystanders have cleared the area.

- c. With the engine shut down, the 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, the steering wheel centered, the GSL in N-DETENT, and the 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".
 2. If engine starts, the system requires adjustment. Refer to the Technical Service Manual.

PRE-DELIVERY CHECKS

K. OPERATIONAL CHECKS



A battery main disconnect switch is located on the RH (cab-forward) frame rail, behind the maintenance platform, and can be accessed by moving the platform. Ensure switch is switched to POWER ON position.

I. ENGINE WARNING LIGHTS

- Turn ignition key to RUN position.
- Single loud tone sounds, and engine warning lights illuminate briefly.

II. START ENGINE

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



- Operator's station lock (A) must be engaged at cab-forward or engine-forward position.
- Move GSL (B) into N-DETENT.
- Turn steering wheel until it locks.



- Push HEADER DRIVE switch (C) to OFF.
- Normal Start:** engine temperature above 60°F (16°C):
 - Set throttle (D) to START position (fully back).
 - Sound horn three times.
 - Turn ignition key (E) to RUN position.
 - Single loud tone sounds, engine warning lights illuminate briefly as a self-test, and CDM displays "HEADER DISENGAGED" and "IN PARK".



CAUTION

Check to be sure all bystanders have cleared the area.

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 table on the following page:

(continued next page)

PRE-DELIVERY CHECKS

| PROBLEM | SOLUTION |
|---------------------------------------|---|
| Controls not in NEUTRAL. | Move GSL to NEUTRAL. Move steering wheel to the locked position. Disengage header clutch. |
| Operator's station not locked. | Adjust Operator's station position. 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 battery switch ON. |
| 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. |

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



CAUTION

Check to be sure all bystanders have cleared the area.

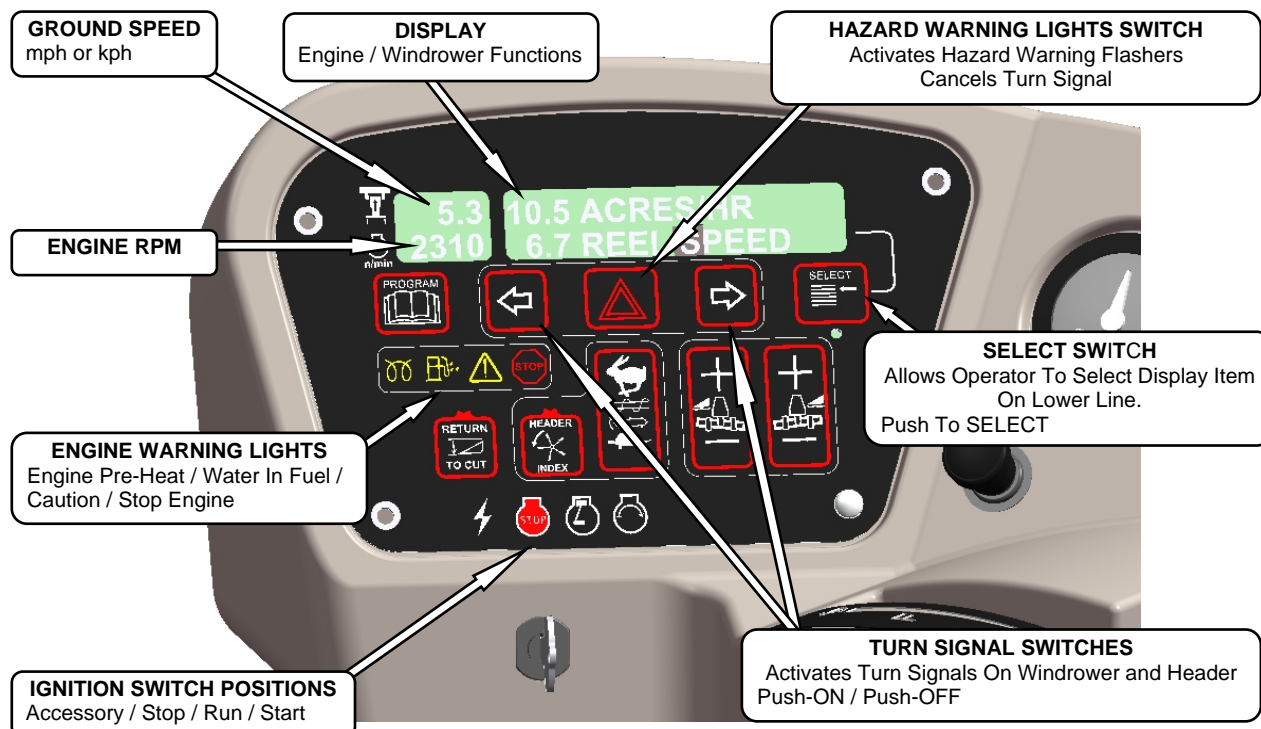
1. Follow procedure for **Normal Start** (on previous page).
2. Engine will cycle through a period where it appears to labor until engine warms up.

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 (37°C).

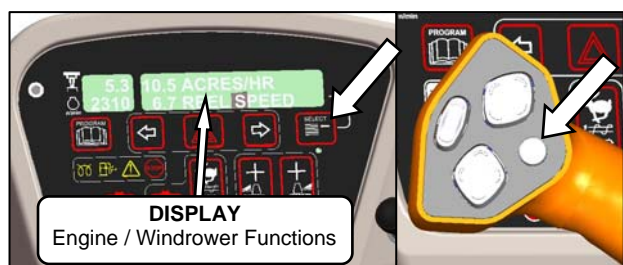


PRE-DELIVERY CHECKS

III. GAUGES AND CDM DISPLAY



- Check that engine temperature gauge and fuel gauge are working.
- Turn exterior lights ON, and check gauge lights are ON.



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

IV. ELECTRICAL

- 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. |
| | Shut Down | 12.0 | Battery Normal. |

NOTE

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

V. ENGINE SPEED

| WINDROWER | IDLE | MAX RPM (No Load) |
|-----------|-------------|-------------------|
| M155 | 1075 - 1150 | 2320 - 2350 |
| M205 | | 2250 - 2340 |

- Check engine idle and maximum rpm on CDM.

VI. OPERATOR'S PRESENCE SYSTEM CHECKS

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



CAUTION

Check to be sure all bystanders have cleared the area.

- With everyone clear of the machine, engage HEADER DRIVE switch.
 - 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

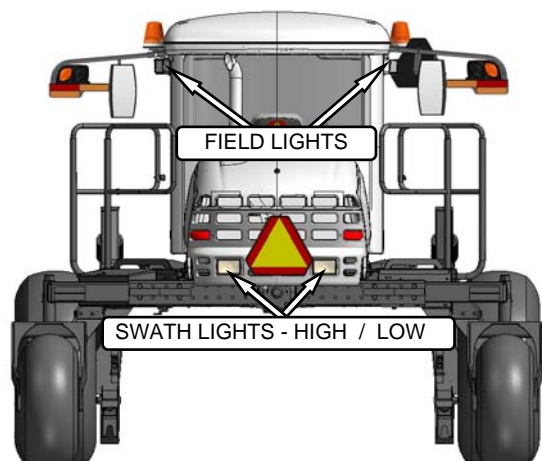
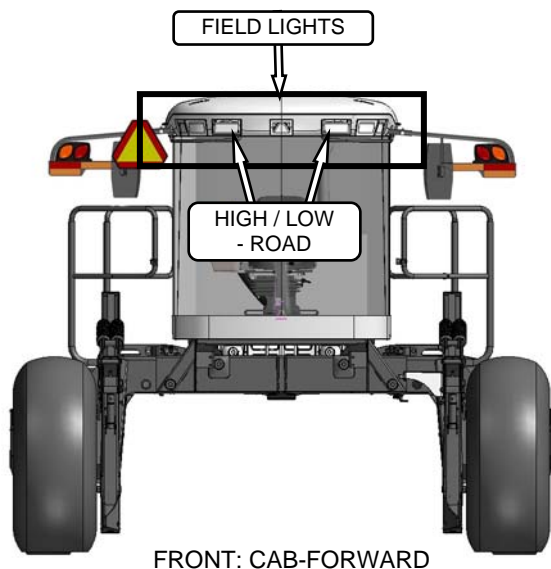
To re-start the header, move the header engage switch to OFF position, and back to the ON position again.

- With the engine running, position the GSL in NEUTRAL and in N-DETENT;
 - Swivel the Operator's station, but do not lock into position.
 - 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".
 - Swivel and lock the Operator's station, and the display should return to normal.
 - If the engine does not shut down, the seat position switches require adjustment. Refer to Technical Service Manual.
- With windrower moving **at less** than 5 mph (8 km/h):
 - Stand up out of the seat.
 - 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.
 - If the engine does not shut down, the Operator Presence System requires adjustment. See Technical Service Manual.
- With windrower moving **at more** than 5 mph (8 km/h):
 - Stand up out of the seat.
 - The CDM beeps once, and displays "NO OPERATOR" on the lower line. If not, the Operator Presence System requires adjustment. See Technical Service Manual.

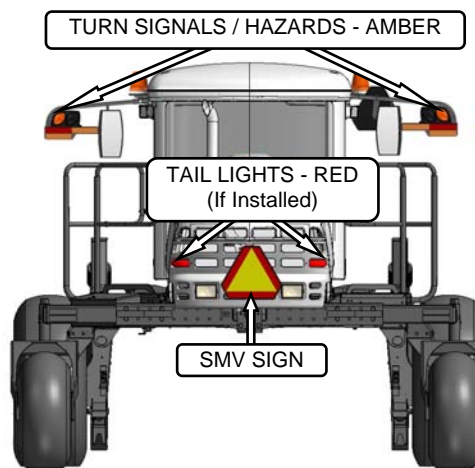
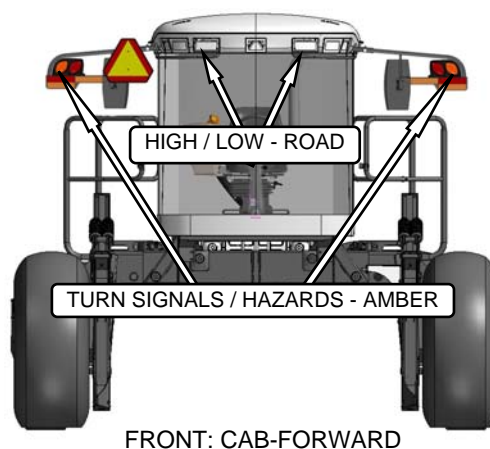
PRE-DELIVERY CHECKS

VII. EXTERIOR LIGHTS

- Ensure Operator's seat is locked in cab-forward mode.
- Switch FIELD lights ON, and check that all lights are functioning as shown below.



- Switch ROAD lights ON, and check that all lights are functioning as shown below.

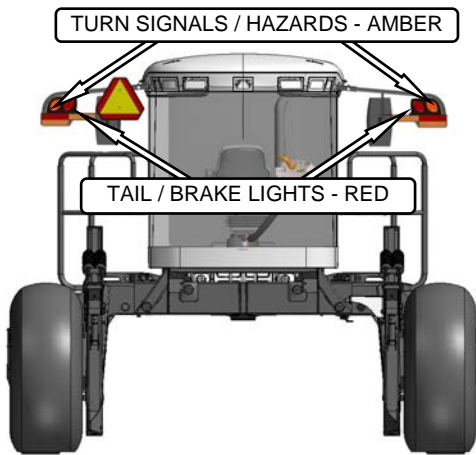


- Activate HIGH/LOW switch, and check lights.
- Activate turn signals and hazard warning lights with switches on CDM, and check lights.
- Turn lights OFF.

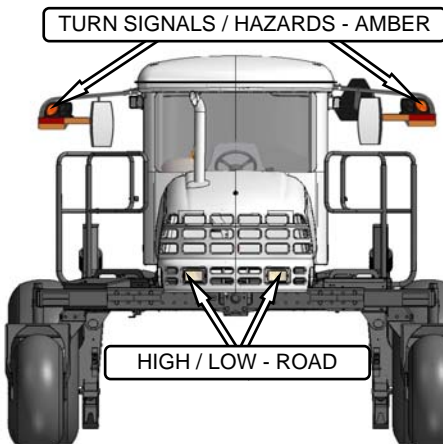
(continued next page)

PRE-DELIVERY CHECKS

- g. Rotate Operator's seat to engine-forward mode.
- h. Switch ROAD lights ON, and check that all lights are functioning as shown below.



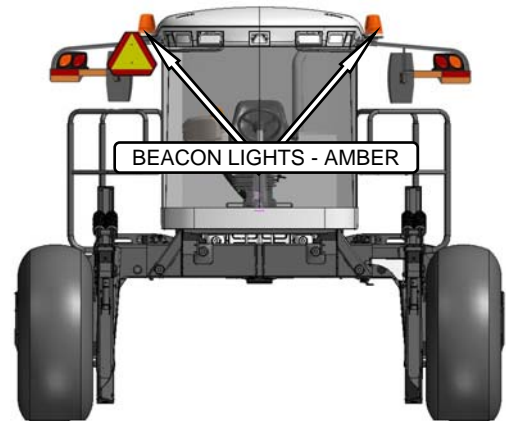
REAR: ENGINE-FORWARD



FRONT: ENGINE-FORWARD

- i. Activate HIGH/LOW switch, and check lights.
- j. Activate turn signals and hazard warning lights with switches on CDM, and check lights.

VIII. BEACON (If Installed)



- a. Turn ignition ON, and activate beacon switch.
- b. Check beacons are working.

IX. HORN



Push HORN button, and listen for horn.

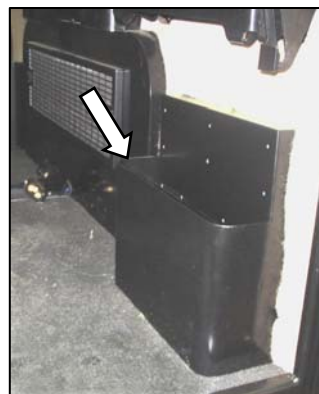
PRE-DELIVERY CHECKS

X. INTERIOR LIGHTS



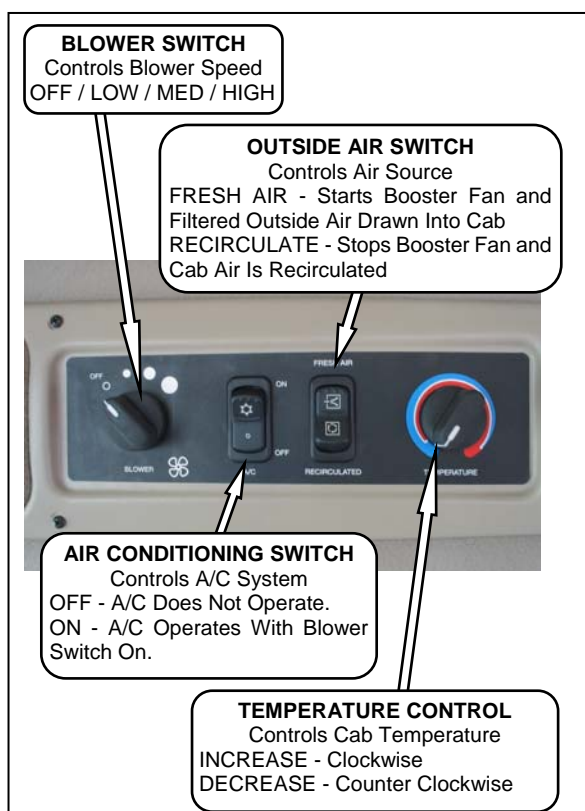
Switch lights ON and OFF with switches on each light. Interior lights only work with ROAD or FIELD light switch ON.

L. MANUALS



The following items should be stored in the manual storage case behind the Operator's seat:

XI. A/C AND HEATER



IMPORTANT

To distribute oil throughout the system, perform the following steps:

- With the engine running, turn blower switch to the "first" position, turn temperature control switch to MAXIMUM heating, and A/C control to OFF.
- 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.



- Parts Catalog: See below.
- Operator's Manual: See below.
- Windrower Quick Card:
 - M155 - Form 169565
 - M205 - Form 169475
- Warranty Documents.
- Engine Manual - Form 166240.

| WINDROWER | OPERATOR'S MANUAL | | PARTS CATALOG | |
|-----------|-------------------|--------|---------------|--------|
| | M155 | M205 | M155 | M205 |
| MacDon | 169563 | 169469 | 169564 | 169472 |
| Premier | 169566 | 169471 | 169567 | 169474 |
| Westward | 169568 | 169470 | 169569 | 169473 |

M. CAB INTERIOR

After Pre-Delivery Check is complete, remove plastic coverings from Cab Display Module and seats.

NOTES



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CUSTOMERS

www.macdon.com

DEALERS

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Printed in Canada

M155 and 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. | 6 |
| | Check tire air pressures, and adjust as required. | 46 |
| | Check final drive hub lubricant level. | 46 |
| | Check engine coolant level and strength at reserve tank. | 47 |
| | Check air cleaner and clamps. | 48 |
| | Check hydraulic oil level, and check for leaks along lines. | 48 |
| | Check fuel separator for water and foreign material. Drain and clean as necessary. Add fuel. | 49 |
| | Check gear box lubricant level. | 49 |
| | Check tension of A/C compressor belt. | 49 |
| | Check machine completely lubricated. | 37 - 38 |
| | Check neutral interlock system. | 50 |
| | Check horn operation. | 55 |
| | Check engine oil pressure indicator light at Cab Display Module (CDM). | 53 |
| | START ENGINE AND RUN TO OPERATING TEMPERATURE | 51 |
| | Check Cab Display Module (CDM) for operation. | 53 |
| | Check Operator's Presence System. | 53 |
| | Check alternator charge rate at instrument console. | 53 |
| | Check fuel gauge for operation. | 53 |
| | Check air conditioning functioning properly. | 56 |
| | Check heater functioning properly. | 56 |
| | Check instrument console gauge lights and interior lights for operation. | 53 & 56 |
| | Check maximum (no load) engine speed at Cab Display Module (CDM). | 53 |
| | Check exterior lights for operation. | 54 |
| | Check hazard and signal lights for operation. | 54 |
| | Check beacons for operation (if installed). | 55 |
| | Complete the Header Pre-Delivery Checklist. | --- |
| | Check that manuals are with the Windrower. | 56 |
| | Check that plastic coverings from cab interior have been removed. | 56 |

Date Checked: _____

Checked by: _____