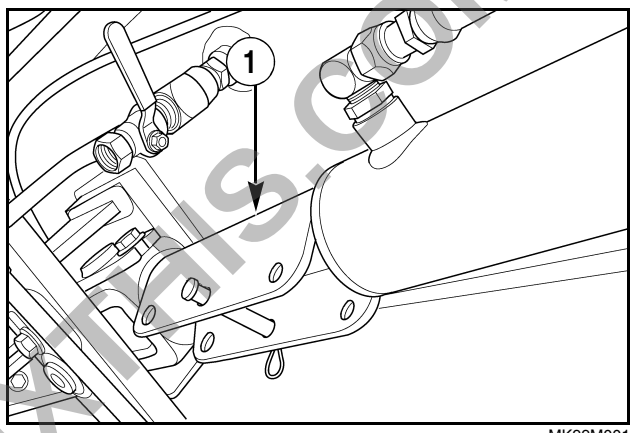
TRACTOR JACKING POINTS

WARNING: *Using a single point jack under the center of the axle housing can cause the axle housing to break and the tractor to fall. Failure to comply may result in machine damage, death or serious injury.* M1217

The following is the proper procedure and jacking points that must be used when any type of service including tire removal is required.

STEP 1

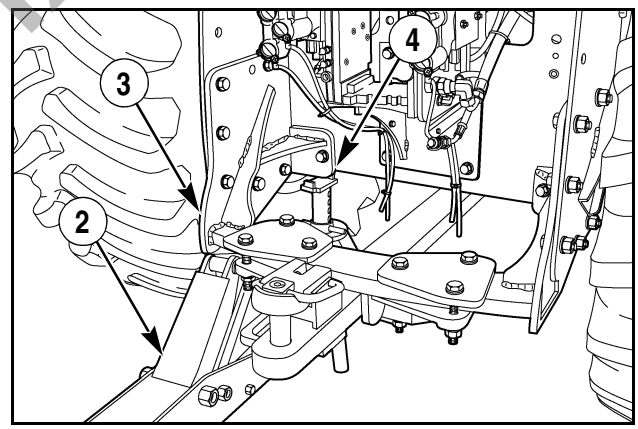
Install the steering cylinder locking blocks (1) before jacking up the front or the rear of the tractor.



MK99M001

STEP 2 Rear

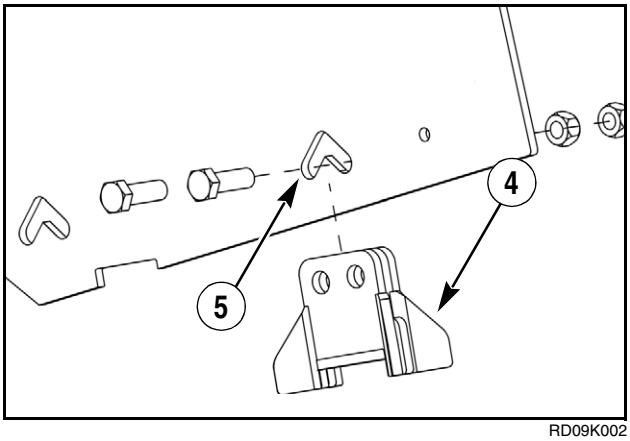
Jack up the rear of the tractor (left or right as required) by placing a floor jack (2) under the side plate (3) of the drawbar support. When the rear of the tractor is raised to the appropriate height, place a floor stand (4) under the front corner support on the drawbar frame.



RD09J020

STEP 3 Front

To jack up the front of the tractor, install the special jacking tool (4) in the front tie-down slot (5) with bolts provided. Torque the bolts to 200 Nm.



RD09K002

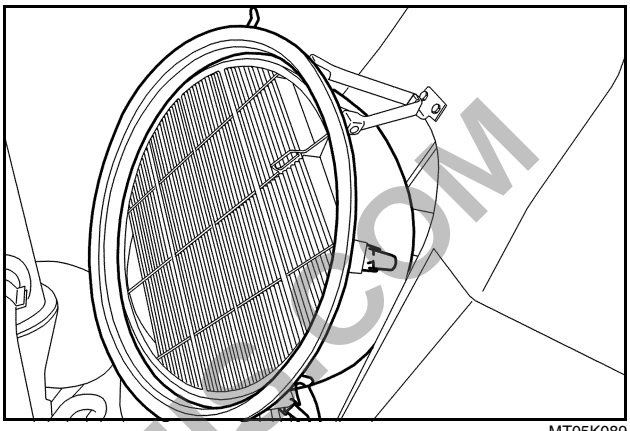
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AS REQUIRED MAINTENANCE

STEP 9

Unlock the top cover and secondary filter from the hood. Position the top cover on the top of the primary filter housing. Be sure the cover is seated in the seal.



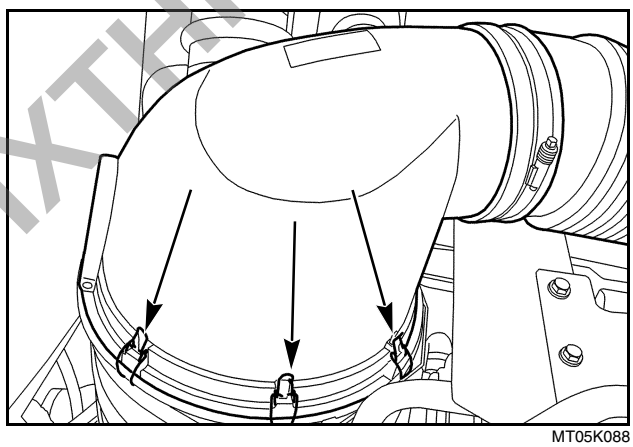
MT05K089

STEP 10

Install the housing top cover and latch all cover snaps. Close the hood and grille screen.

IMPORTANT: *The top cover must be positioned so that the flex tubing is not making contact with any objects. The tubing must have clearance all around its full length*

.



MT05K088

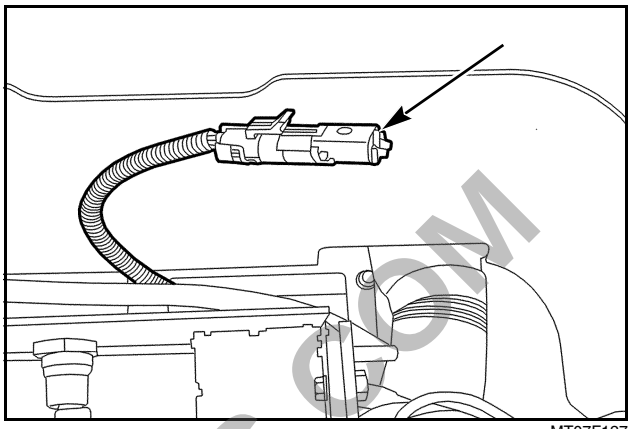
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Implement Area Counter Switch

An optional switch assembly (P/N 221545A1) is available from your dealer which will automatically stop and start the total area accumulation when the implement is raised (or lowered). See your dealer for further information.

The implement status switch connector (1) is located in the right-hand side electrical compartment in front of the controllers.



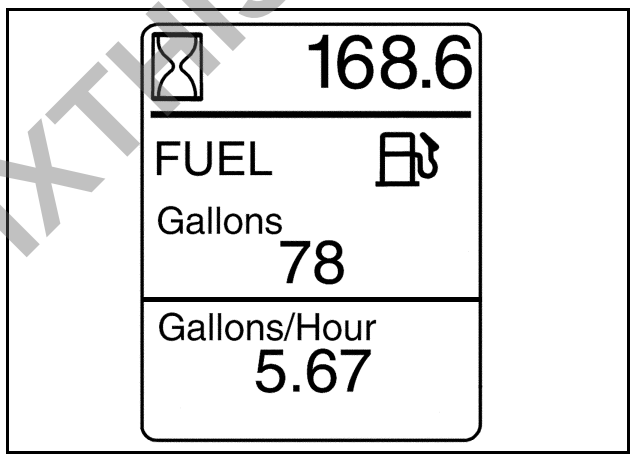
MT07F127

Fuel Information

This screen displays fuel remaining and instantaneous fuel rate usage.

Press the INCR or DECR button until the Fuel Remaining screen is displayed. This screen shows the amount of remaining fuel in gallons or liters, and the rate of consumption per hour.

The fuel information function is active at all times. The fuel remaining is based on current fuel tank levels. The fuel consumption per hour is based on electronic governor data and is only displayed when that data is available.



MT07E036

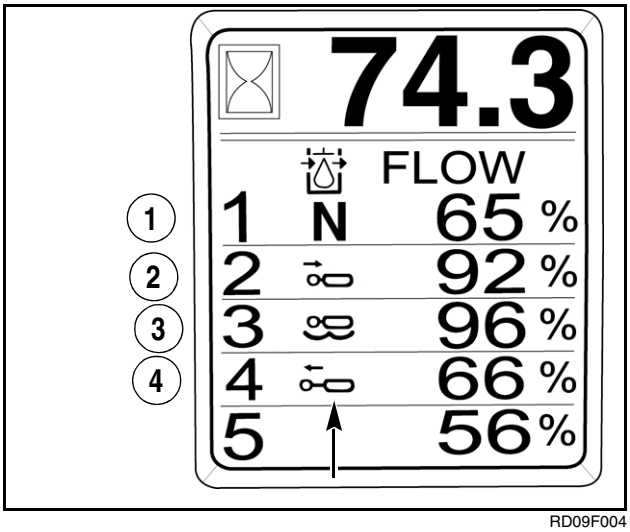
Remote Hydraulic Information

This screen displays the remote hydraulic coupler flow as a percentage of total available flow at each remote coupler. The hydraulic flow information is active at all times.

Press the INCR or DECR button until the Remote Hydraulic screen is displayed. The Flow screen will also appear for 5 seconds when any one of the five flow potentiometers on the armrest is adjusted. After 5 seconds, the original data display screen will return.

The remote hydraulic flow screen also has lever indicators to the right of the appropriate remote. These indicators show the operator the current position (Neutral, Retract, Float or Extend mode) that the remote lever is in.

NOTE: *When an EHR valve is on, the cylinder symbol will be displayed. After it has turned off, the lever position is indicated.*



RD09F004

REMOTE LEVER INDICATORS

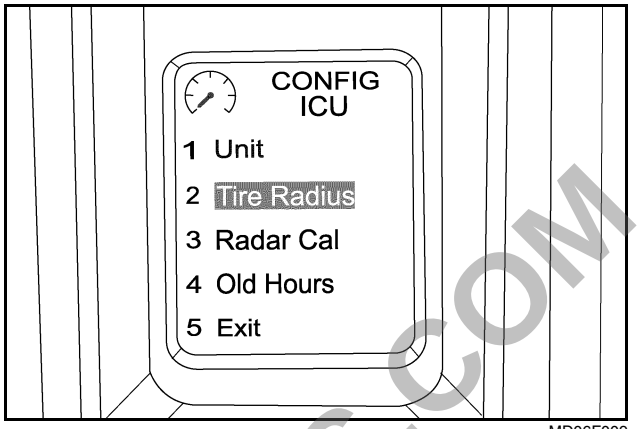
1. REMOTE 1 SHOWN IN NEUTRAL MODE
2. REMOTE 2 SHOWN IN RETRACT MODE
3. REMOTE 3 SHOWN IN FLOAT MODE
4. REMOTE 4 SHOWN IN EXTEND MODE

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PROGRAMMING THE DISPLAY MONITOR

The display can be programmed to change the following operating parameters:

- Display Units - U.S. Standard or Metric
- Tire Radius
- Radar Calibration
- Old Hours
- Data Screen Order
- Programmable Display Contrast
- Instrument Panel Backlight Intensity
- Egress Lighting Control
- Decelerator Control



MD06F009

IMPORTANT: *Be sure the park brake is applied. Perform the following outlined steps carefully. Other menus are accessible once you are in the PROGRAM MODE. DO NOT change any data other than those described. Serious tractor malfunctions will occur if data is changed in any other menu. If data is inadvertently changed, turn the key switch OFF to exit the PROGRAM MODE before any other buttons are pressed and the data will remain unchanged.*

To Enter Program Setup Mode:

1. Turn the key switch ON.
2. Press and hold the PROG key.

NOTE: *The PROG key must be pressed within 10 seconds of turning the key switch ON. A short beep will sound to indicate PROGRAM MODE has been entered.*

3. CONFIG MENU will be displayed. ICU will be highlighted.
4. Press the PROG key.
5. CONFIG screen will be displayed.
6. OPERATOR SETUP will be highlighted.
7. Press the PROG key.
8. Using the INCR or DECR keys select **Units**, **Tire Radius**, **Radar Cal**, **Old Hours** or **Exit**.

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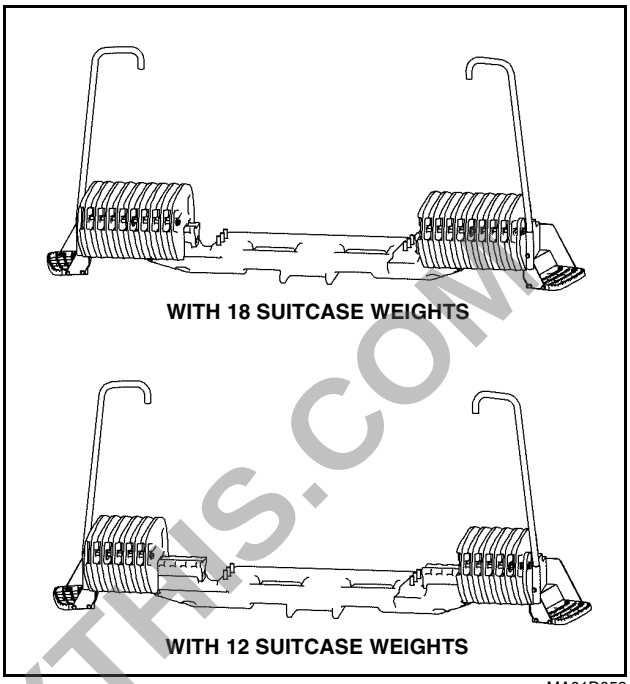
When using front suitcase weights, install the required weights on the insert starting from the outboard end of the insert. If it becomes necessary to remove some suitcase weights, remove weights from the inboard end of the insert. Each suitcase weight interlocks with each other. The maximum number of front suitcase weights that can be installed is 18.

Assembly weight:

Front Hanger = 294 kg (648 lb.)
Hanger + 18 suitcases = 1191 kg (2626 lb.)

Because of the distance the front weight frame assembly is mounted ahead of the front axle, if you put 272 kg (600 lbs) of weights on the front only, the front axle weight INCREASES 455 kg (1000 lbs) and the rear axle weight will DECREASE.

NOTE: *The use of front suitcase weights can be useful in reducing rear axle weight on some tractor models equipped with hitch and PTO to help maintain the recommended 60/40 weight distribution ratio for hitch work without exceeding the maximum operating weight. See Maximum Recommended Operating Weight.*



MA01D059

Rear Frame Weights

Rear suitcase weights can be mounted on the rear of the tractor with a weight frame. Rear suitcase weights cannot be used if the tractor is equipped with a three point hitch.

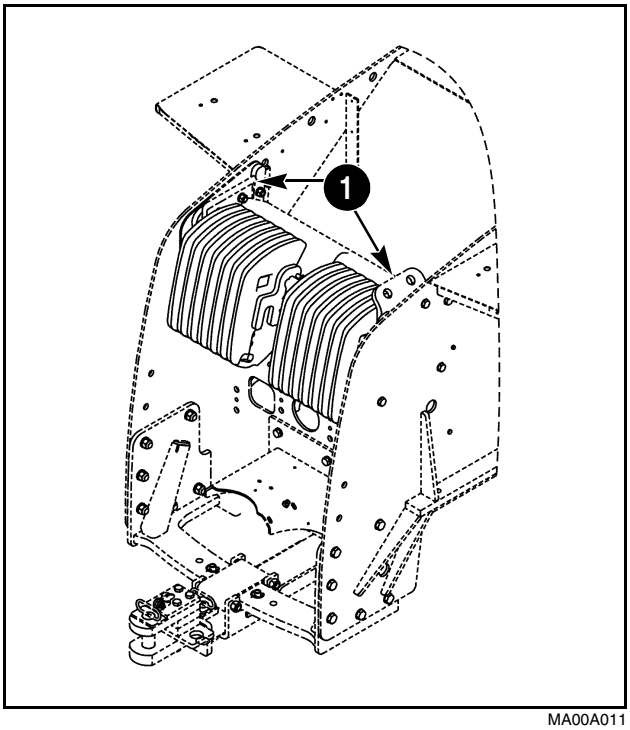
A maximum of 14 suitcase weights at 45 kg (100 lb.) each can be installed depending on implement application, front mounted equipment, tractor static weight split and soil conditions.

Assembly weight:

Weight frame = 468 kg (1032 lb.)
Frame + 14 suitcase weights = 1166 kg (2571 lb.)

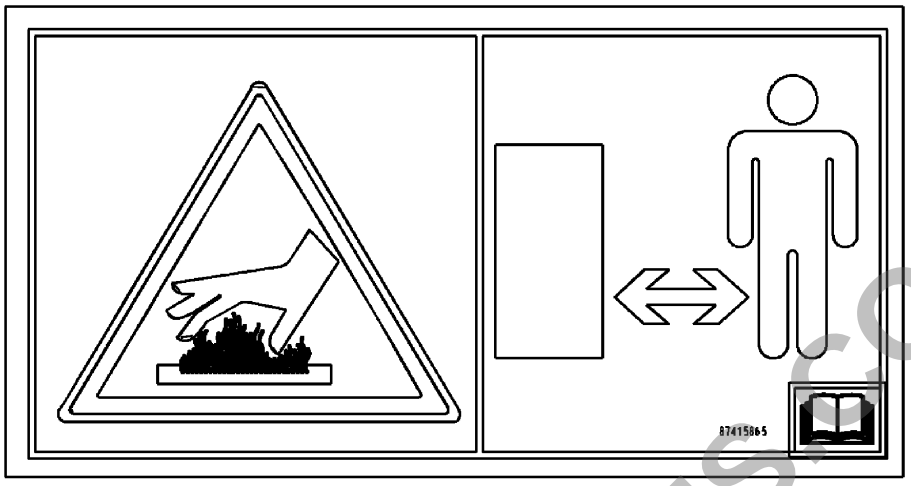
The entire weight assembly can be removed from the tractor by removing 2 bolts and using an overhead hoist attached to the lifting bracket rear hole (1) on each side. See your dealer for more information.

IMPORTANT: *Total tractor static weight with all equipment and ballast must never be more than the recommended operating weight. See Maximum Recommended Operating Weight.*



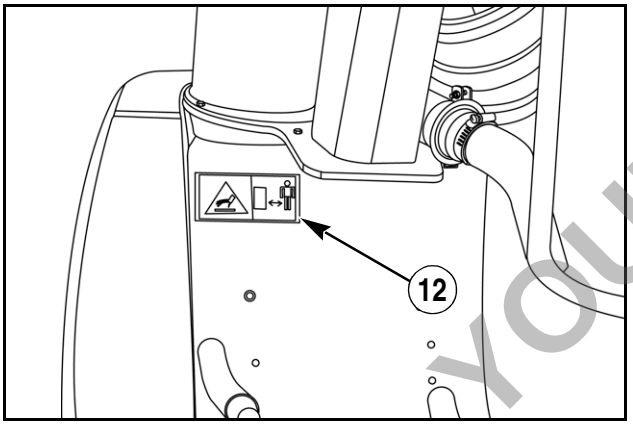
MA00A011

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87415865

12 - HOT SURFACE DECAL



RD09J017

NEAR MUFFLER

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SAFETY CHAIN

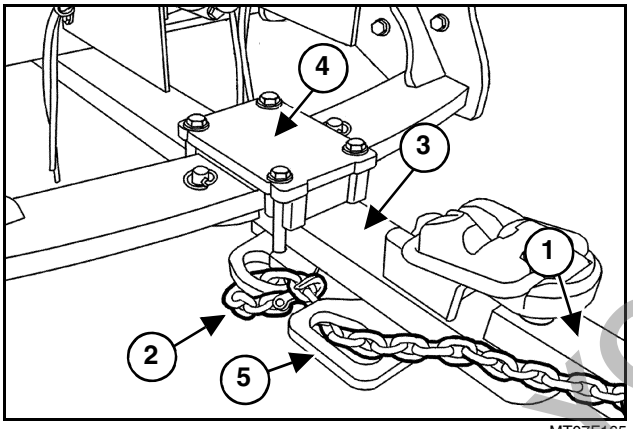
When towing equipment on a highway, use a safety chain as an auxiliary connection between the tractor and the towed equipment. The safety chain must have a rating greater than the gross load of the towed equipment. Connect the chain to the tractor drawbar support and the towed equipment as shown in the illustration. Check the adjustment of the safety chain by turning the tractor completely to the right and left. Adjust the chain as necessary.

IMPORTANT: *The chain (2) must pass through the chain support (5) loop around and attached to the drawbar support (4) as shown. DO NOT fasten the chain to the chain support.*

TYPICAL SAFETY CHAIN CONNECTION

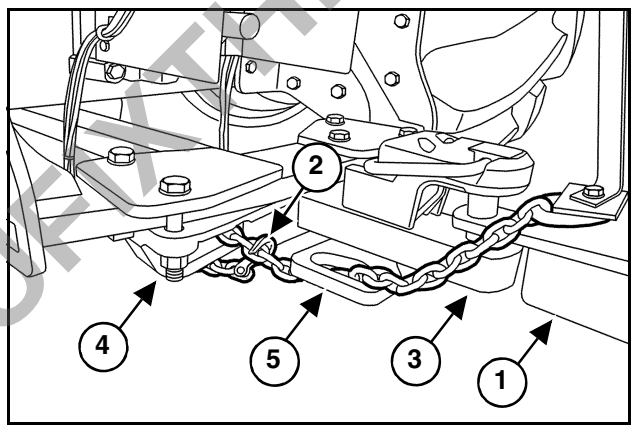
1. TOWED EQUIPMENT
2. SAFETY CHAIN
3. DRAWBAR
4. DRAWBAR SUPPORT
5. CHAIN SUPPORT

STANDARD DRAWBAR 6400 TO 20200 LB CHAIN



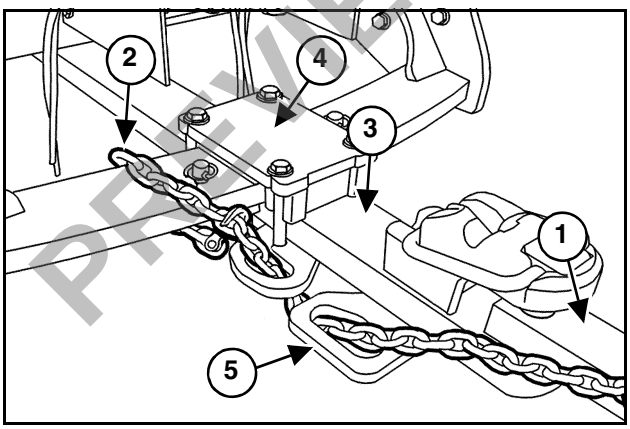
MT07F165

HEAVY DUTY DRAWBAR 5300 TO 20200 LB CHAIN



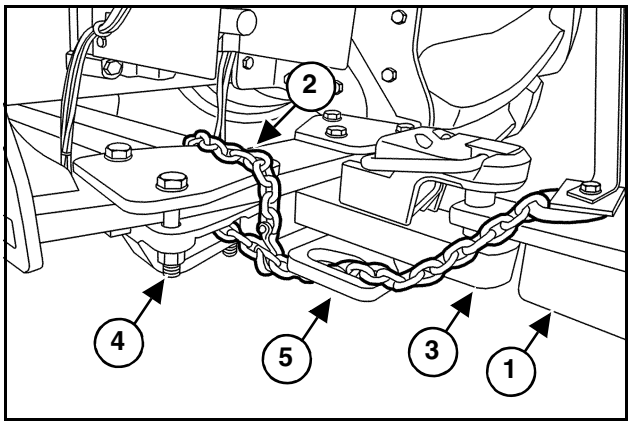
MT07F019

STANDARD DRAWBAR 30400 TO 60600 LB CHAIN



MT07F166

HEAVY DUTY DRAWBAR 30400 TO 60600 LB CHAIN



MT07E018

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This section covers the proper starting and transmission operation of the tractor.

BEFORE STARTING THE ENGINE

Before starting your tractor for the first time, make the following checks. Also see Maintenance/Adjustments sections in this manual.

1. Make sure the tractor is properly lubricated and greased as described in the Lubrication/Maintenance section of this manual.
2. Check the engine oil level, engine coolant level, and transmission oil. See the Lubrication/Maintenance section of this manual.
3. Check that the tractor fuel tank is filled with clean fuel that meets the specifications given in this manual.

NOTE: *Clean around the fuel tank cap before you remove the cap.*

4. Check the fuel system, cooling system and engine for leaks.
5. Remove any water or sediment from the water trap of the fuel tank and primary filter.
6. Check the air pressure in the tires and check the wheel bolt torque.
7. Make sure the power takeoff guard is in the proper position.

WARNING: *Before starting the engine, be sure all operating controls are in neutral or park position. This will eliminate accidental movement of the machine or start up of power driven equipment. Failure to comply could result in machine damage, death or serious injury.* M306B

WARNING: *Never operate the engine in a closed building. Proper ventilation is required under all circumstances. Failure to comply could result in death or serious injury.* M142B

WARNING: *ALWAYS sound horn before starting the machine. Make sure working area is clear of other persons, pets, tools, etc. before you start operating this machine. NEVER allow anybody including pets in work area during machine operation. Failure to comply could result in death or serious injury.* M804A 0

Daily Inspection

Do a daily walk around visual inspection of the tractor. Check for such items as hoses or wires rubbing against other components, oil leaks, crop residue buildup, loose bolts or anything that would affect the normal operation of the tractor.

Engine Overspeed

Engine overspeed will cause engine damage. To avoid overspeeding the engine when transporting heavy implements and/or descending steep grades at transport speeds, throttle back and reduce engine speed BEFORE down shifting. Shift down to a gear that will allow the engine to control the speed BEFORE descending steep grades. DAMAGE CAUSED BY ENGINE OVERSPEED IS NOT COVERED BY WARRANTY. Also see Engine Compression Brake Operation.

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WARNING FAULT DISPLAYS

The programmable display will notify the operator when there is a problem with the engine, transmission, hydraulics or other operational systems that require corrective action. The warnings include an audible alarm, an indicator light and text in the programmable display. The warnings are divided into 4 levels of importance and descending order of priority within each level. In the case of multiple faults or warnings the higher level or higher priority within a level will be the warning displayed. The following tables are listings of the icons, warning text, problems and corrective action required in order of importance and priority.

Critical Warning Displays - Level 1 - Standard and Performance

Level 1 critical warnings require immediate attention or there will be serious damage to the tractor. When a critical fault occurs, the red stop light, the amber warning light and the audible alarm will flash continuously and a text message will appear in the lower display. For very high engine coolant temp and very low engine oil pressure, the light near the gauge will also flash. **Shut down the engine immediately**.

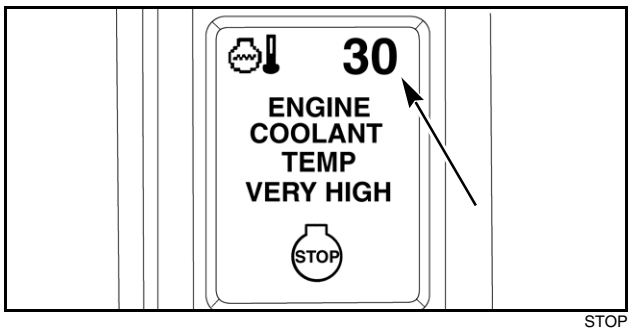
NOTE: *For tractors equipped with the Performance Instrumentation Cluster, the engine will be shut down in 30 seconds after the fault is detected. The lower display will show the 30 second countdown timer.*

IMPORTANT: *Level 1 warnings can not be turned off by pressing the "RESET" button. If the tractor must be moved, cycle the key switch to get an additional 30 seconds of running time to move the tractor. This can be done as many times as necessary to reach a desired location. However, damage to the tractor can occur.*

Display		Problem	Corrective Action
	ENGINE INTAKE AIR TEMP VERY HIGH	High air to air temperature.	Shut the tractor engine OFF immediately and check the heat exchanger for blockage.
	ENGINE OIL PRESSURE VERY LOW	Low engine oil pressure.	Shut the tractor engine OFF immediately and check oil level or other cause.
	ENGINE COOLANT TEMP VERY HIGH	High engine coolant temperature.	Shut the tractor engine OFF immediately and check coolant level or radiator for blockage or other cause.
	TRANSMISSION OIL TEMP VERY HIGH	High transmission oil temperature.	Shut the tractor engine OFF immediately and check for blocked cooler or other cause.
	HYDRAULIC OIL TEMP VERY HIGH	High hydraulic oil temperature.	Shut the tractor engine OFF immediately. Check oil level. Check for blocked cooler or other cause.
	TRANSMISSION OIL PRESSURE VERY LOW	Low transmission oil pressure.* (Powershift only)	Shut the tractor engine OFF. Check transmission oil level or other cause.

ENGINE SHUT DOWN WARNING SCREEN

IMPORTANT: On critical warnings the shut down screen will display with the countdown timer in the upper right. If the operator is in the seat it will be a 30 second countdown. If the operator is not in the seat it will be a 5 second countdown until the engine shuts down.



STOP

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WHEEL WEIGHT BOLT TORQUE

M16 Grade 10.9 Bolts/Nuts ..... 270 to 350 Nm (200-260 ft. lb.)

NOTE: *Lubricate bolt threads lightly with SAE 10W-30 oil.*

IMPORTANT: *After initial wheel weight installation, drive the tractor slowly in reverse a minimum of 100 ft. (305 Km) while using several LIGHT brake applications. Re-torque bolts to specifications. Recheck the bolt torque every 10 hours thereafter until the bolt torque stabilizes.*

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If the vehicle is operating under a light load,

- the system selects a higher gear, and
- engine RPMs are decreased to produce less horsepower.
- If vehicle load decreases, the system selects higher gears and decreases engine RPMs to maintain the desired ground speed and gain more efficiency, until the minimum allowed engine RPMs are reached.

CGS field

Since it is designed for field work with an implement, CGS field operates from gears 1-14, with continuous adjustable ground speed.

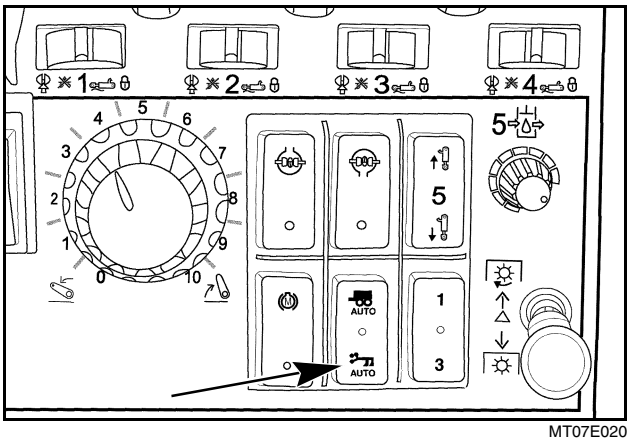
The operator sets the desired ground speed by simply setting the throttle position:

- The minimum lever position (throttle closest to operator) designates the minimum possible vehicle speed. The minimum throttle position corresponds to gear 1 at the minimum allowable engine speed. When the CGS field mode is engaged in a gear above 1st gear the default minimum engine speed is approximately 1600 RPM for agricultural and 1850 for scraper models. See Minimum Engine RPM (Droop) to change the minimum RPM if necessary.
- The maximum lever position (throttle furthest from the operator) designates the maximum possible vehicle speed. The maximum allowable ground speed or target speed is adjustable, with the default being 8 km/h (5 mph).

The operator is able to set the desired working speed for the implement as the maximum vehicle or target speed, so the maximum throttle position is the desired working speed of the implement.

Press and hold the CGS field end of the switch (plow icon) for two seconds to select the correct tractor speed as the target speed for CGS field.An audible beep sounds to indicate that the speed has been stored.

This target speed is remembered until the operator changes it again. The maximum speed cannot exceed gear 14 at high idle or about 23.7 km/h (14.7 mph.



MT07E020

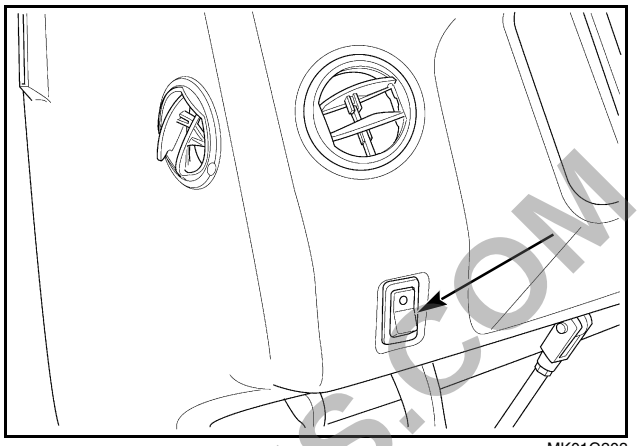
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CENTER CONSOLE CONTROLS

ETHER START AID SWITCH (If Equipped) - Two position rocker switch to activate the ether start aid for cold temperature starting. Switch positions are OFF and momentary ON (switch will return to OFF position when released). Switch can only be activated when the key switch is in the START or RUN position. See Engine Starting Procedure for complete information.

NOTE: *Ether start cannot be activated when the engine speed is above 500 rpm.*



MK01G203

LEFT-HAND SIDE

KEYSWITCH - This is a four position switch.

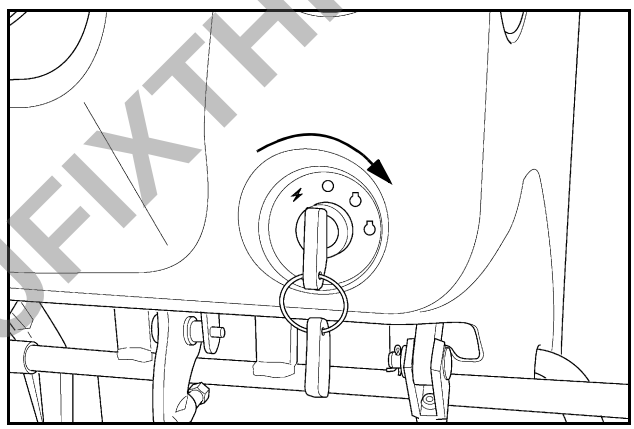
NOTE: *The switch positions are as follows:*

ACCESSORY POSITION - Counter-clockwise from OFF position. Use this position to operate the radio when the engine is not running.

OFF POSITION - Turn the key to the OFF position to stop the engine. The key can only be removed from the OFF position.

ON POSITION - First position clockwise from OFF.

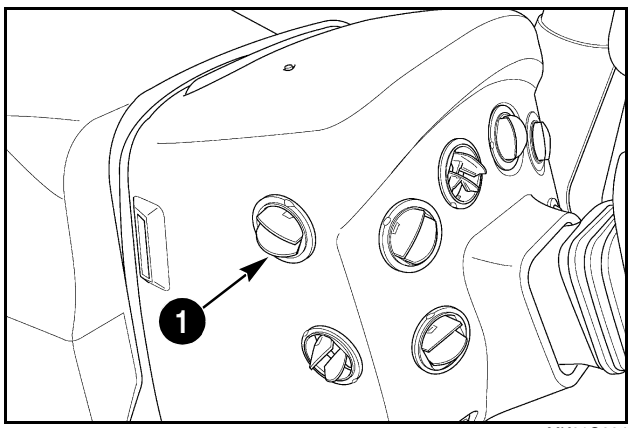
START POSITION - Hold the key switch to the second position clockwise from OFF. The starter motor will crank the engine. Release the key switch when the engine starts to run.



MK01G302

RIGHT-HAND SIDE

AIR DISCHARGE OUTLETS - Ten multi-directional and infinitely adjustable air outlet louvers (1) and three defrost outlets are located in the center console for directing heated or cooled air for operator comfort.



MK01G204

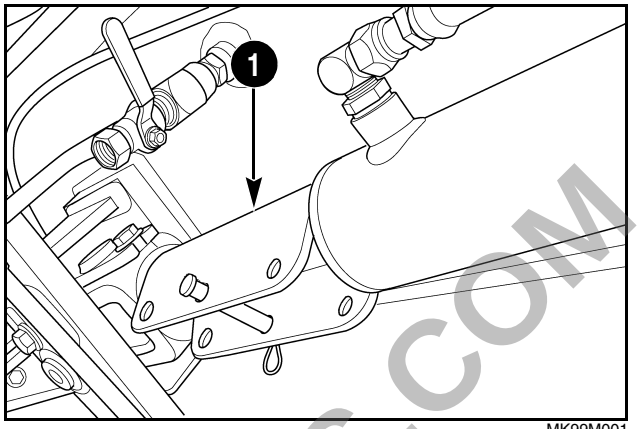
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TRANSPORTING THE TRACTOR

When transporting the tractor on another vehicle, use the following procedure.

1. The articulation cylinder locking blocks (1) MUST be installed on both articulation cylinders before lifting or transporting the tractor on another vehicle.
2. Remove the outer duals or triples before hauling, unless special permits allow for over-width hauling. Check with your local authorities on over-width hauling regulations.
3. The tractor must be transported with all four wheels on a flatbed trailer.
4. Shut down the engine. The park brake will apply automatically. Remove the key from the switch.
5. Secure the tractor with tie-downs front and rear and block each wheel front and rear.
6. Measure the highest point on the tractor after it is secured on the flatbed. Check with local authorities regarding over-height hauling based on the measurement taken.



MK99M001

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Non-Critical Displays - Level 2 - Standard and Performance

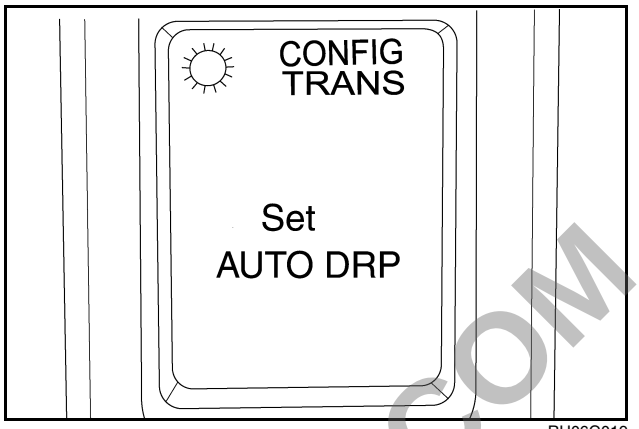
Faults or warnings are for conditions that will not immediately damage the tractor but left uncorrected could develop into Level 1 - Critical Faults. A Level 2 fault could also cause other systems to be inoperative. When Level 2 fault warnings occur, the amber light will flash for 4 seconds then be on continuously. The audible alarm will sound continuously for 4 seconds and the programmable display will show the fault text continuously. When the RESET key is pressed the warning text will clear for 10 minutes but the amber light will remain on if the engine is running. When the fault is corrected the amber lamp will go off.

Display		Problem	Corrective Action
	**ENGINE AIR TEMP HIGH**	High air to air temperature approaching critical.	Check for blocked air cooler. If condition persists contact your dealer.
	**TRANSMISSION CONTROLLER OFF LINE**	The transmission electronic controller is not communicating over the data cable.	Check and replace fuse #39 if necessary. If condition persists contact your dealer.
	**ARMREST CONTROLLER OFF LINE**	The arm rest control console electronic controller is not communicating over the data cable.	Check and replace fuse #38 if necessary. If condition persists contact your dealer.
	**HITCH CONTROLLER OFF LINE**	The hitch electronic controller is not communicating over the data cable.	Check and replace fuse #41 if necessary. If condition persists contact your dealer.
	AUX CONTROLLER OFF LINE	The remote hydraulic electronic controller is not communicating over the data cable.	Check and replace fuse #40 if necessary. If condition persists contact your dealer.
	**INSTRUMENT OFF LINE**	The tractor monitor is not communicating over the data cable.	Check and replace fuses #9 and #37 if necessary. If condition persists contact your dealer.
	**ENGINE CONTROLLER OFF LINE**	The engine electronic controller is not communicating over the data cable.	Check and replace fuse #11 and #22 if necessary. If condition persists contact your dealer.
	**TRANSMISSION FAULT**	The transmission electronic controller has detected an electronic or electrical failure.	If condition persists contact your dealer.
	**ARMREST FAULT**	The transmission electronic controller has detected an electronic or electrical failure.	If condition persists contact your dealer.
	**HITCH FAULT**	The hitch electronic controller has detected an electronic or electrical failure.	If condition persists contact your dealer.
	**AUX FAULT**	The remote hydraulics electronic controller has detected an electronic or electrical failure.	If condition persists contact your dealer.

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4. Press the INCR or DECR key until the screen displays “Set AUTO DRP” and then press the PROG key.

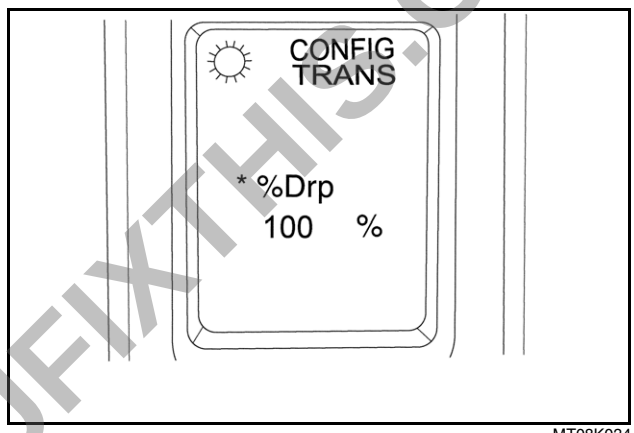


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5. The screen displays *%Drp. The asterisk indicates that the % shown is the saved value in memory.

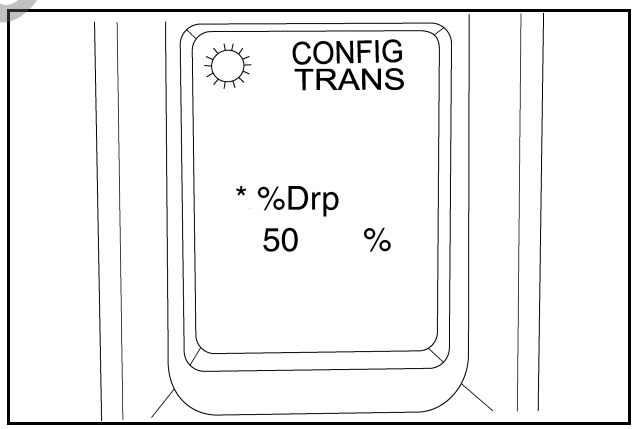
6. Press the INCR or DECR key to change the % droop, with 100% (1600 RPM) being the default for agricultural tractors and 50% (1850 RPM) for scraper tractors.

7. Press the PROG key with the desired % displayed to save it as the new minimum % for CGS field.



MT08K034

8. Press the INCR or DECR key until the screen displays “Exit Setup”, and then press the PROG key. Selection of the minimum CGS engine RPM is now complete.



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This section gives important safety information for your tractor.

SAFETY

Understand that your safety and the safety of other persons is measured by how you service and operate this machine. Know the positions and operation of all controls before you try to operate. MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.

READ THIS MANUAL COMPLETELY and make sure you understand the controls. All equipment has limits. Make sure you understand the speed, brakes, steering stability and load characteristics of this machine before you start to operate.

The safety information given in this manual does not replace safety codes, insurance needs, federal, state and local laws. Make sure your machine has the correct equipment needed by the local laws and regulations.

CNH AMERICA, LLC is continuing to work for your safety by making tractors with better protection and by providing these rules for safe operation.

DANGER: *The Safety Alert Symbol and Safety messages that follow indicate extremely important information in this manual. When you see this symbol, carefully read and understand the messages that follow. Failure to read and understand these messages will cause death or serious injury.* M171D

SAFETY RULES

- Failure to comply to the following messages could result in death or serious injury.
- Always sound horn before starting the tractor.
- Before starting the engine, be sure all operating controls are in neutral or park lock position. This will eliminate accidental movement of the machine or start up of power driven equipment. R106E
- Operate controls only when seated in the operator's seat. R137A
- Securely fasten your seat belt. Your machine is equipped with a ROPS cab, ROPS canopy or ROPS frame for your protection. The seat belt can help insure your safety if it is used and maintained. Never wear a seat belt loosely or with slack in the belt system. Never wear the belt in a twisted condition or pinched between the seat structural members. Inspect seat belt webbing, buckle and retractors to ensure they are not damaged. If damage is apparent, repair before operating the tractor. M437A
- A frequent cause of death or serious injury is persons falling off machinery and being run over. Keep cab door closed. instructional seat is used only for instructing or service diagnosing only. DO NOT permit others to ride, especially children. Seat belt (if equipped) must be worn at all times. M488C
- Before leaving the tractor, stop the engine, put all controls in neutral or park lock position, remove the key from the key switch. R301B
- Stay off slopes too steep for safe operation. Shift down before you start up or down a hill with a heavy load. Avoid "free wheeling". R123A
- Do not drive on roads, or at high speed anywhere, with the differential lock engaged. Difficult steering will occur and can result in an accident. In field operation, use the differential lock for traction improvement, but release for turning at row ends. R116A
- Do not carry out activities with the tractor where FOPS hazards exist (example: forestry work).

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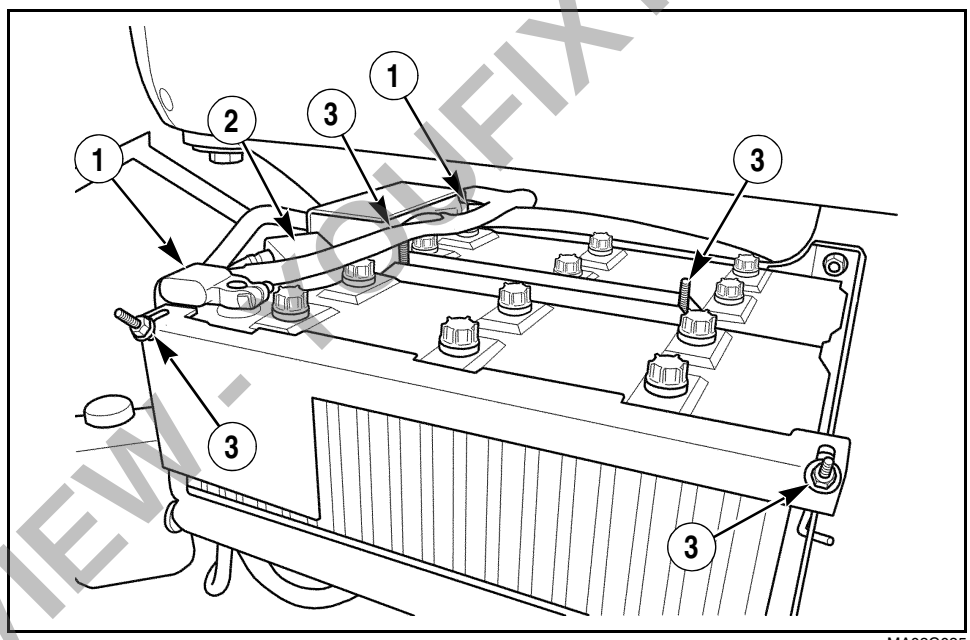
Removal And Installation Of Batteries

To remove batteries, disconnect the battery negative (-) cables first (1), then positive (+) second (2). Remove the battery bracket third (3). When the batteries are installed, make sure the cables are installed on the correct terminals. This is a 12 volt, negative ground electrical system and must be so connected.

IMPORTANT: *Do not start or operate the engine with the electrical system not completely connected.*

NOTE: *The batteries can be disconnected without affecting any programmed or stored information in the digital instrument cluster. When the batteries are connected again the instrument cluster will remember and use all stored information such as Total Area, Equipment Width, Ground Speed Calibration Number, etc.*

WARNING: *Sparks or flame can cause hydrogen gas in a battery to explode. To prevent an explosion, do the following: 1. When you disconnect the battery cables, always disconnect the negative (-) battery cable first. 2. When you connect the battery cables, always connect the negative (-) battery cable last. 3. Do not short circuit the battery posts with metal items. 4. Do not weld, grind or smoke near a battery. 5. Always wash your hands after handling battery or battery components. Failure to comply could result in death or serious injury.* M512A



MA03C035

1. NEGATIVE (BLACK)
2. POSITIVE (RED)
3. BATTERY BRACKET

WARNING: *Battery posts, terminals and related accessories contain lead and lead compounds.* ***Wash hands after handling.*** *Failure to comply could result in death or serious injury.* M793A

When Batteries Are Not In Use

When the tractor is not in use, the batteries will need a charge every six weeks to keep the specific gravity at or above 1.250. Storage batteries not in use will slowly discharge. A battery that has discharged can freeze at low ambient temperatures causing damage to the battery and tractor.

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