Rubber Track System

OPERATOR'S MANUAL

Rubber Track System

OMHXE70656 ISSUE E7 (ENGLISH)

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

Additional Proposition 65 Warnings can be found in this manual.

John Deere Harvester Works

North American Edition

PRINTED IN U.S.A.

Introduction

Foreword

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your machine may also be available in other languages. (See your John Deere dealer to order.)

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification or Identification Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

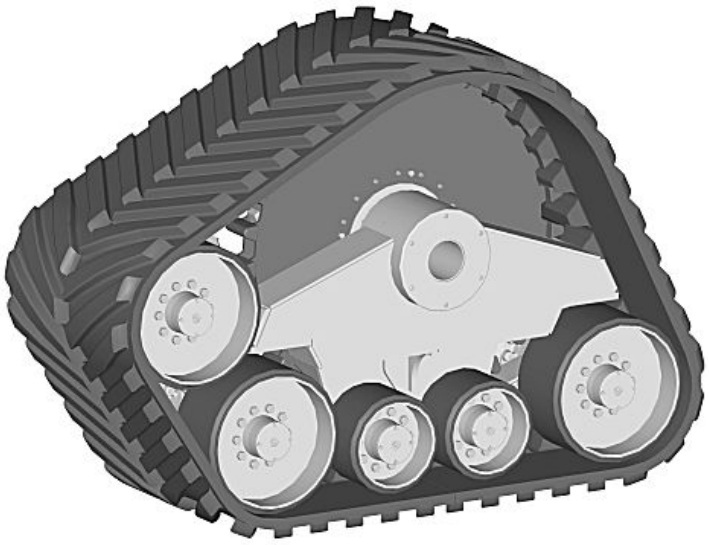
WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate or statement which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

If you are not the original owner of this machine, it is in your interest to contact your local John Deere dealer to inform them of this unit's serial number. This will help John Deere notify you of any issues or product improvements.

OUO6075,00014B7 -19-23APR13-1/1

Machine Photo



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Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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A John Deere ILLUSTRUCTION ™ Manual

Recognize Safety Information

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

T81389 —UN—28JUN13

DX,ALERT -19-29SEP98-1/1

Understand Signal Words

DANGER; The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING; The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION; The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

TS187 —19—30SEP88

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

DX,SIGNAL -19-05OCT16-1/1

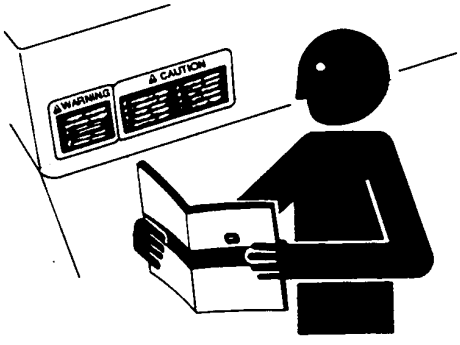
Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



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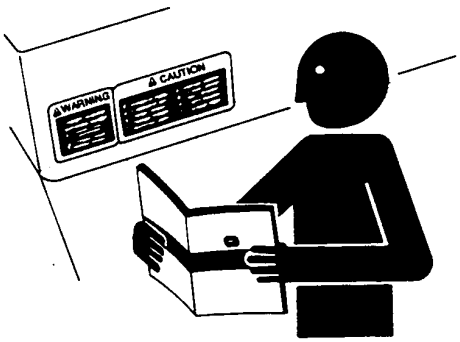
If you do not understand any part of this manual and need assistance, contact your John Deere dealer.

DX,READ -19-16JUN09-1/1

Spanish Safety Signs and Operator's Manual

Spanish versions of the operator's manual and safety signs are available for this machine through authorized John Deere dealers. See your John Deere dealer.



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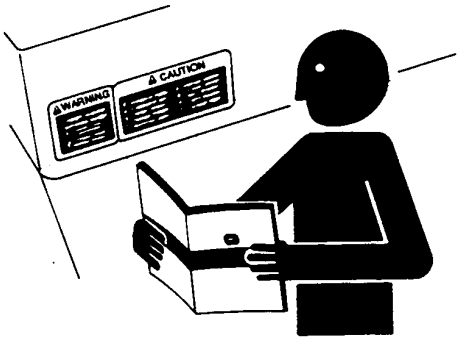
Replace Safety Signs

Replace missing or damaged safety signs. Use this operator's manual for correct safety sign placement.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.



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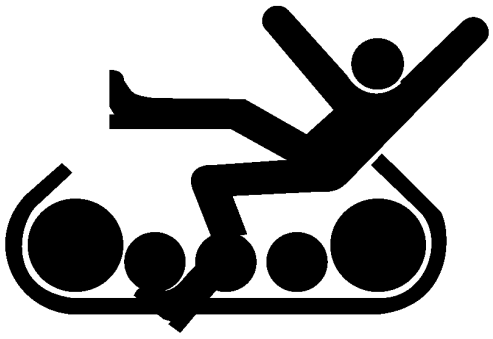
DX,SIGNS -19-18AUG09-1/1

Safe Track Operating Practices

DO NOT stand near tracks when machine is running.

Safe operating practices of track drive machines are no different from wheel drive machines.

ALWAYS refer to your Combine Operator's Manual, and review Safety section before operating machine. The Combine Operator's Manual details safe operating practices that must be followed to protect you and others from accidental death and/or injury.



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Driving the Machine

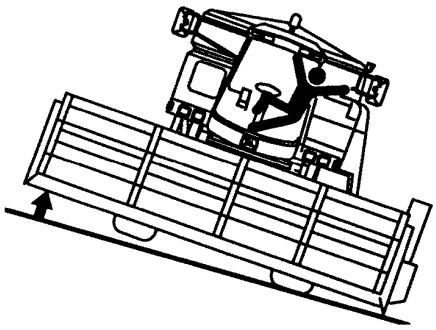
Operate machine only when all guards are correctly installed.

Before moving away, always check immediate vicinity of machine (e.g. for children). Ensure adequate visibility. Use the horn as a warning immediately before moving away.

Always adapt ground speed to road or field conditions. Avoid making sharp turns when driving up or down slopes or when driving across a slope. Be especially careful when turning on slopes with full grain tank.

Follow instructions in header Operator's Manual when attaching or detaching the header.

When making turns, always take into consideration the width of the attachment and the fact that the rear end of the machine swings out. Attachments and ground conditions affect the driving characteristics of the combine.



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ZX002461 —UN—16JUN95

Reduce ground speed when driving on slopes or over uneven ground and before making sharp turns. Before descending a steep hill, shift to a lower gear.

Avoid holes, ditches and obstructions which may cause the combine to tip, particularly on hillsides.

OUO6075,0000AB7 -19-21FEB07-1/1

Keep Riders and Children Off Machine

Only allow the operator on the machine. Keep riders off the machine except for periods of training or short periods of observation.

Riders are subject to injury such as being thrown off the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.

Children should never be allowed on the machine or in the combine cab when the engine is running.

The instructional seat should only be used for instruction or short periods of machine observation, and not for the accommodation of children.

TS253 —UN—23AUG88

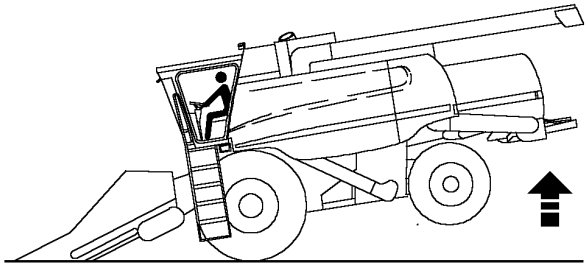
HX,AG,SF6904 -19-22JUL99-1/1

Ballasting for Safe Ground Contact

Operating, steering and braking performance of combine can be considerably affected by heavy front end attachments which alter the center of gravity of the combine.

To maintain the necessary ground contact, ballast the combine at the rear end as necessary.

Observe the maximum permissible axle loads and total weights.



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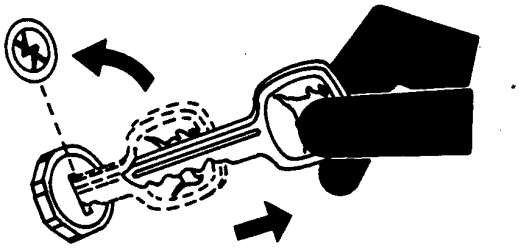
Parking and Leaving the Machine

Lower harvesting unit to the ground.

Before leaving machine, disengage harvesting unit and separator. Move multi-function lever to neutral position and shut OFF machine. Apply parking brake, remove key, and lock the operator's cab.

Never leave machine unattended as long as engine is running.

Never leave the operator's cab when driving.



TS230 —UN—24MAY89

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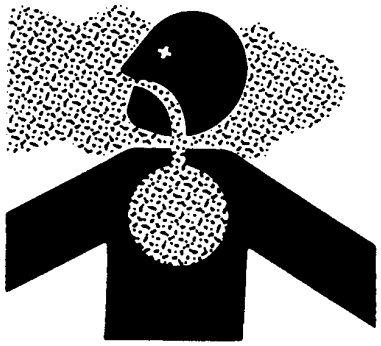
Work In Ventilated Area

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



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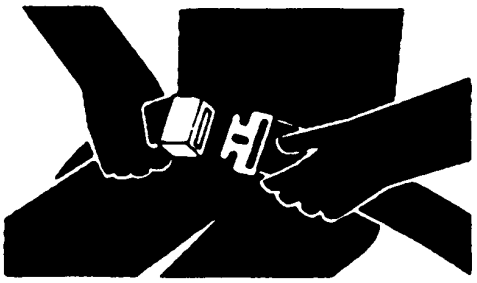
DX,AIR -19-17FEB99-1/1

Use Seat Belts

Use the seat belt whenever you operate the combine or ride as an observer.



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HX,STSSA,I -19-22JUL99-1/1

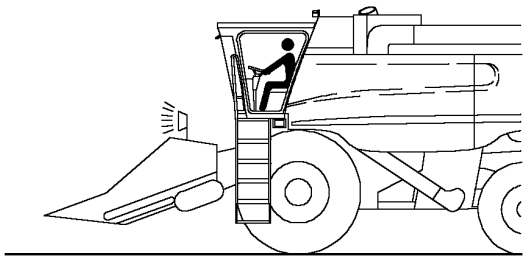
Transport Combine With Header Safely

Whenever possible avoid transporting on public roadways with the header attached.

If the combine must be transported with the header attached, make sure that the flashing warning lights on the header are operating and the reflective material is clean and visible.

The use of a spotter or pilot vehicle is recommended on busy, narrow or hilly roads and when crossing bridges.

Drive at a speed that is safe for conditions.



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Practice Safe Maintenance

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing away from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.

TS218 —UN—23AUG88

DX,SERV -19-28FEB17-1/1

Avoid Contact With Moving Parts

Keep hands, feet and clothing away from power driven parts. Never clean, lubricate or adjust machine when it is running.

TS256 —UN—23AUG88

H01,9000SA,E -19-15JUN90-1/1

Avoid High-Pressure Fluids

Inspect hydraulic hoses periodically – at least once per year – for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire braid or any other signs of wear or damage.

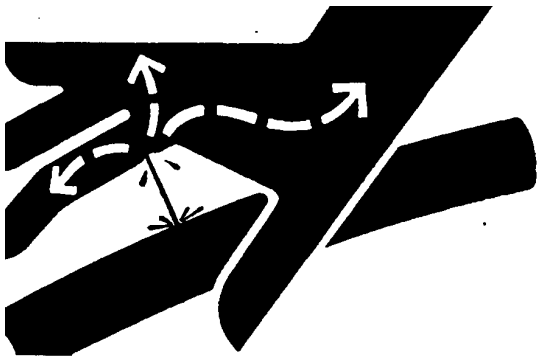
Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available in English from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.



X9811 —UN—23AUG88

DX,FLUID -19-12OCT11-1/1

Service Accumulator Systems Safely

Escaping fluid or gas from systems with pressurized accumulators that are used in air conditioning, hydraulic, and air brake systems can cause serious injury. Extreme heat can cause the accumulator to burst, and pressurized lines can be accidentally cut. Do not weld or use a torch near a pressurized accumulator or pressurized line.

Relieve pressure from the pressurized system before removing accumulator.

Relieve pressure from the hydraulic system before removing accumulator. Never attempt to relieve hydraulic system or accumulator pressure by loosening a fitting.

Accumulators cannot be repaired.

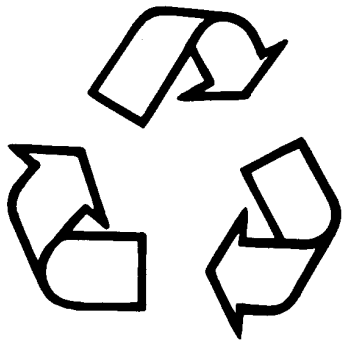
TS281 —UN—15APR13

DX,WW,ACCLA2 -19-22AUG03-1/1

Decommissioning — Proper Recycling and Disposal of Fluids and Components

Safety and environmental stewardship measures must be taken into account when decommissioning a machine and/or component. These measures include the following:

- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.
- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting the battery or other electrical power, and releasing pressure in hydraulic components, accumulators, and other similar systems.
- Minimize exposure to components which may have residue from agricultural chemicals, such as fertilizers and pesticides. Handle and dispose of these components appropriately.
- Carefully drain engines, fuel tanks, radiators, hydraulic cylinders, reservoirs, and lines before recycling components. Use leak-proof containers when draining fluids. Do not use food or beverage containers.
- Do not pour waste fluids onto the ground, down a drain, or into any water source.
- Observe all national, state, and local laws, regulations, or ordinances governing the handling or disposal of waste fluids (example: oil, fuel, coolant, brake fluid);



TS1133 —UN—15APR13

filters; batteries; and, other substances or parts. Burning of flammable fluids or components in other than specially designed incinerators may be prohibited by law and could result in exposure to harmful fumes or ashes.
- Service and dispose of air conditioning systems appropriately. Government regulations may require a certified service center to recover and recycle air conditioning refrigerants which could damage the atmosphere if allowed to escape.
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your John Deere dealer for information on the proper way to recycle or dispose of waste.

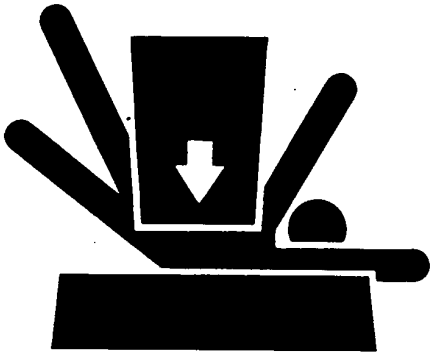
DX,DRAIN -19-01JUN15-1/1

Support Machine Properly

Always lower the attachment or implement to the ground before you work on the machine. If the work requires that the machine or attachment be lifted, provide secure support for them. If left in a raised position, hydraulically supported devices can settle or leak down.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

When implements or attachments are used with a machine, always follow safety precautions listed in the implement or attachment operator's manual.



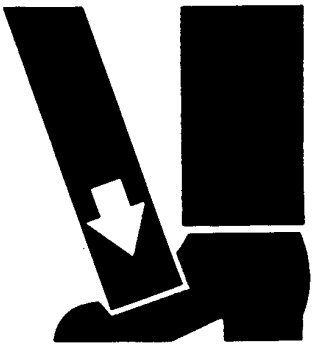
TS229 —UN—23AUG88

DX,LOWER -19-24FEB00-1/1

Use Proper Lifting Equipment

Lifting heavy components incorrectly can cause severe injury or machine damage.

Follow recommended procedure for removal and installation of components in the manual.



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DX,LIFT -19-04JUN90-1/1

Installation Instructions

Introduction

IMPORTANT: Read through this instruction thoroughly and familiarize yourself with the machine before installing these components. Do not skip steps or perform them out of order.

This instruction demonstrates the proper procedure for installing the Rubber Track System using the components provided.

OUO6075,00014D9 -19-04JUN13-1/1

Parts List

NOTE: Only 300 mm (12 in.) or 400 mm (16 in.) axle extensions can be installed with the track modules.

Parts Description	Quantity
Track Module, Left-Hand	1
Track Module, Right-Hand	1
Adapter Plate [a]	2
Oscillation Stop Plate, Front	2
Oscillation Stop Plate, Rear	2
Oscillation Stop Connecting Strap	2
Tow Cable Guide	2
Cap Screw, M20 x 80	8
Washer, M20	80
Nut, M20	40
Cap Screw, M20 x 120	32
Cap Screw, M24 x 100	8
Cap Screw, M24 x 120	8
Washer, M24	16
Spacer, M25	4
Plate [b]	5
Cap Screw, M16 x 110 [b]	2
Nut, M16 [b]	2

[a] Comes installed on the left-hand and right-hand track modules.
[b] Only used with 400 mm (16 in.) axle extensions.

OUO6075,00014DA -19-04DEC13-1/1

Average Installation Time

Average time needed to install the Rubber Track System is 6 hours.

OUO6075,00014DB -19-04JUN13-1/1

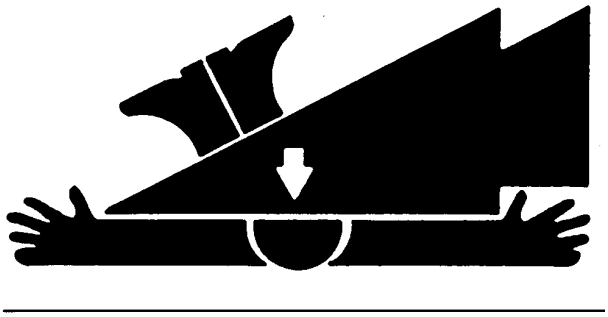
Remove Front Wheels (If Installed)

CAUTION: To avoid injury or death, raise feeder house and lower safety stop. Some assembly requires you to work underneath feeder house.

Without safety stop engaged, feeder house can suddenly lower, causing serious crushing injury or death.

1. Raise feeder house and lower safety stop (A).
2. Shut OFF engine, set park brake and remove key.
3. With front tires on ground, loosen wheel bolts one full turn, but do not remove at this time.

A—Safety Stop



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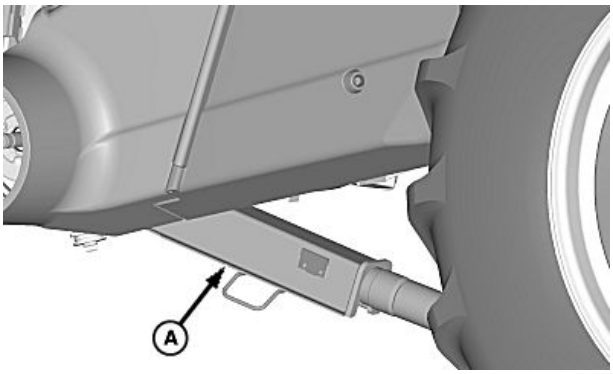

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OUO6075,00014DC -19-18SEP13-1/3

CAUTION: Jack MUST have a minimum lifting capacity of 5443 kg (6 ton). Grain tank MUST be empty and header attachment removed.

Block both sides of tires to prevent machine movement.

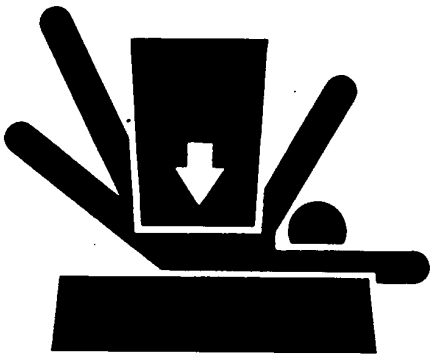
4. Raise front end of machine with jack (A).

CAUTION: To help prevent personal injury caused by unexpected movement of machine, verify that machine is stable after blocking. Do not support machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work on a machine that is supported solely by a jack.

Verify that front axle rests on blocking before attempting to remove wheels.

5. Position solid blocking under front axle (B). Lower machine onto blocking, making sure that no load shift is seen or felt.

A—Jack **B—Front Axle**



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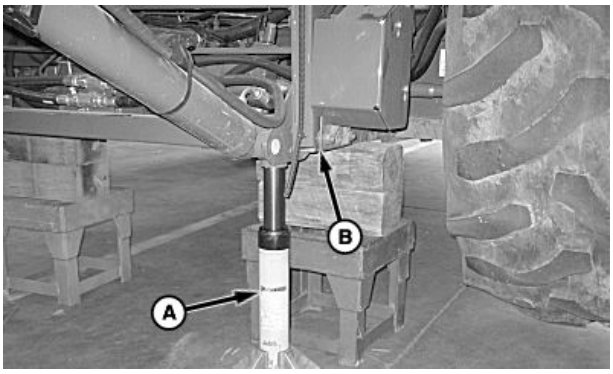

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OUO6075,00014DC -19-18SEP13-2/3

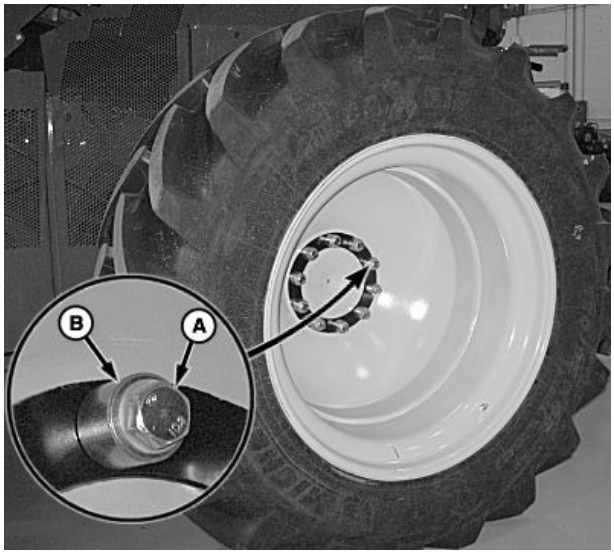
CAUTION: Wheel assemblies are heavy, awkward to handle, and difficult to control due to extreme offset of tire and rim. Two people are required for wheel removal.

6. While supporting wheel assembly, remove wheel bolts (A), washers, spacers (B), and front wheel.

NOTE: Retain these washers and wheel bolts to install the adapter plate later in the instruction.

7. Move wheel assembly away from machine.
8. Repeat steps on opposite side of machine.

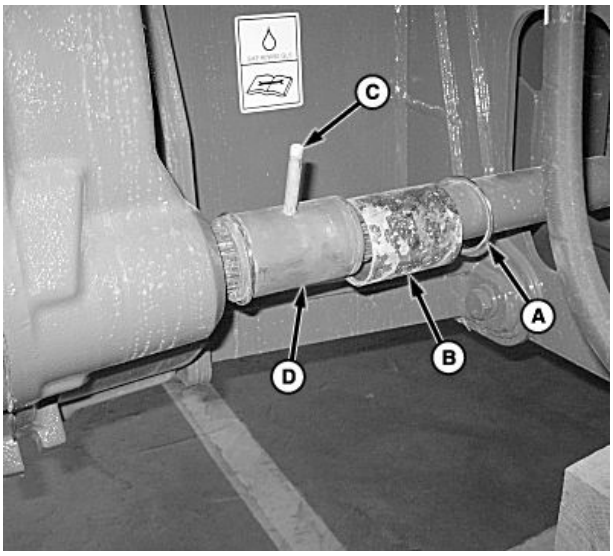
A—Wheel Bolts (10 used) **B—Spacers (10 used)**



H107742 —UN—03MAY13

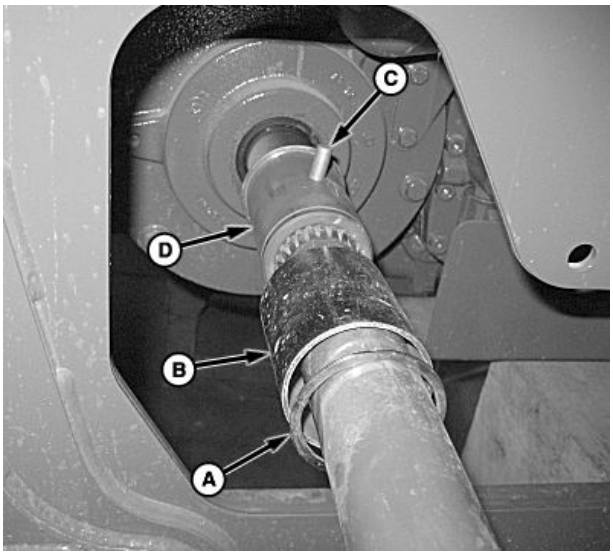
OUO6075,00014DC -19-18SEP13-3/3

Remove Drive Shafts



H107728 —UN—03MAY13

Outside Portion of Drive Shaft



H107729 —UN—03MAY13

Inside Portion of Dive Shaft

A—Snap Ring **B—Sleeve** **C—Pin** **D—Coupling**

1. Shut OFF engine, set park brake and remove key.
2. Remove snap ring (A) and slide sleeve (B) on drive shaft at both ends.
3. Remove pin (C) from coupling (D) on drive shaft at both ends.
4. Repeat steps on opposite side of machine.

OUO6075,00014E0 -19-18SEP13-1/1

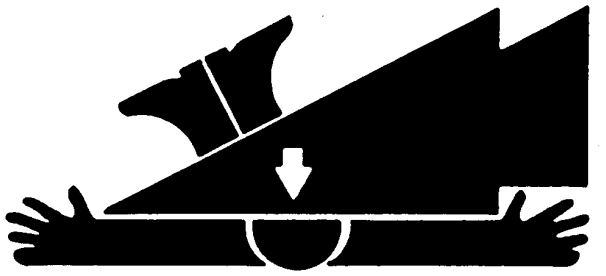
Remove Final Drives

CAUTION: To avoid injury or death, raise feeder house and lower safety stop. Some assembly requires you to work underneath feeder house.

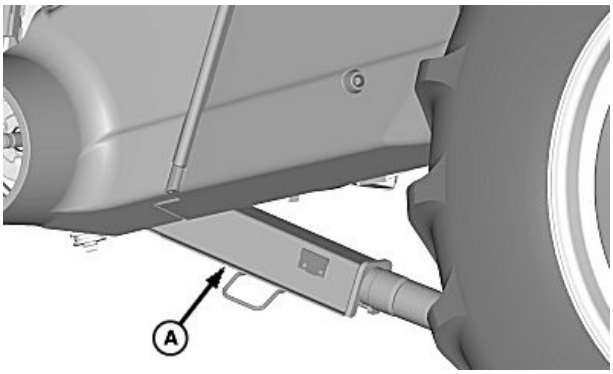
Without safety stop engaged, feeder house can suddenly lower, causing serious crushing injury or death.

1. Raise feeder house and lower safety stop (A).

A—Safety Stop



TS696 —UN—21SEP89



H90891 —UN—26FEB08

OUO6075,00014E8 -19-05JUN13-1/4

CAUTION: Jack MUST have a minimum lifting capacity of 5443 kg (6 ton). Grain tank MUST be empty and header attachment removed.

Block both sides of tires to prevent machine movement.

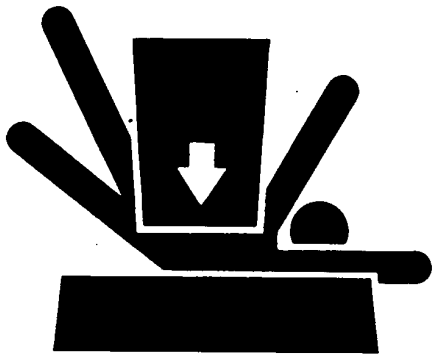
2. Raise front end of machine with jack (A).

CAUTION: To help prevent personal injury caused by unexpected movement of machine, verify that machine is stable after blocking. Do not support machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work on a machine that is supported solely by a jack.

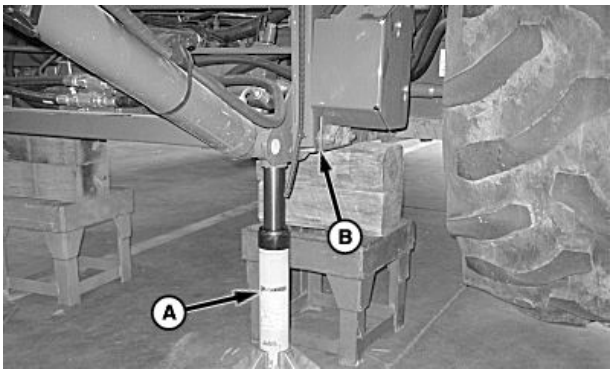
Verify that front axle rests on blocking before attempting to remove wheels.

3. Position solid blocking under front axle (B). Lower machine onto blocking, making sure that no load shift is seen or felt.

A—Jack **B—Front Axle**



TS229 —UN—23AUG88



H107727 —UN—03MAY13

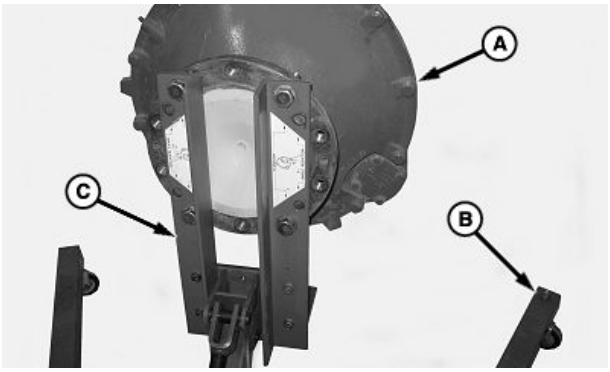
Continued on next page

OUO6075,00014E8 -19-05JUN13-2/4

CAUTION: Use appropriate lifting device to remove final drive from machine.

4. Align final drive adapter (C) and service jack (B) with final drive (A) as shown.
5. Install wheel bolts as needed.
6. Raise jack to apply pressure to final drive to aid in removal.

A—Final Drive
B—Service Jack (JT07056A)
C—Final Drive Adapter (JT05874)



H107401 —UN—04APR13

Planetary Final Drive Shown

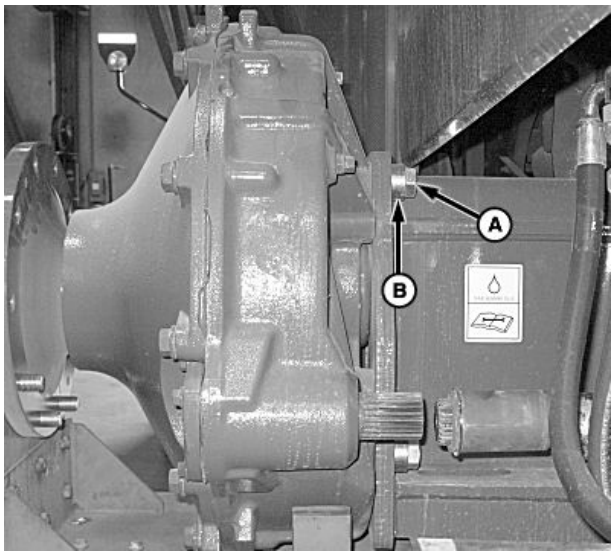
OUO6075,00014E8 -19-05JUN13-3/4

7. Remove bolts (A) and spacers (B) from final drive.

NOTE: Retain spacers for use when installing oscillation plates later in the instruction.

8. Remove final drive from machine.
9. Repeat steps on opposite side of machine.

A—Bolts (8 used)
B—Spacers (8 used)



H107730 —UN—03MAY13

Front View Of Final Drive

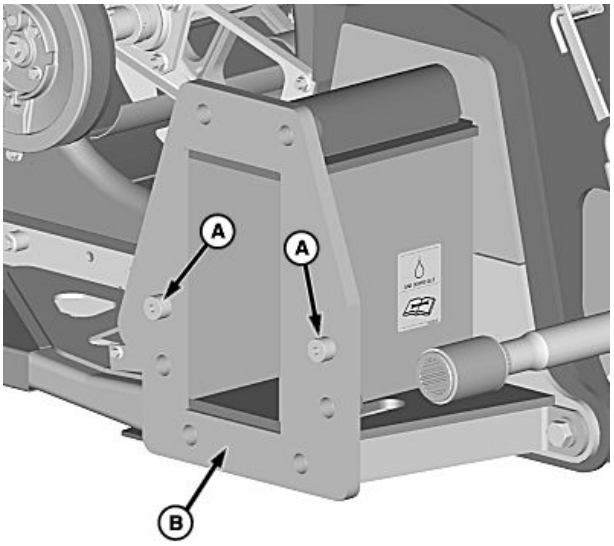
OUO6075,00014E8 -19-05JUN13-4/4

Install Axle Extensions

NOTE: Only 300 mm (12 in.) or 400 mm (16 in.) axle extensions can be installed with the track modules.

1. Verify that dowel pins (A) remain installed in axle mainframe (B).
2. Apply anti-seize to dowel pins.

A—Dowel Pins (2 used) **B—Axle Mainframe**



H108226 —UN—11JUN13

OUO6075,00014E7 -19-18SEP13-1/3

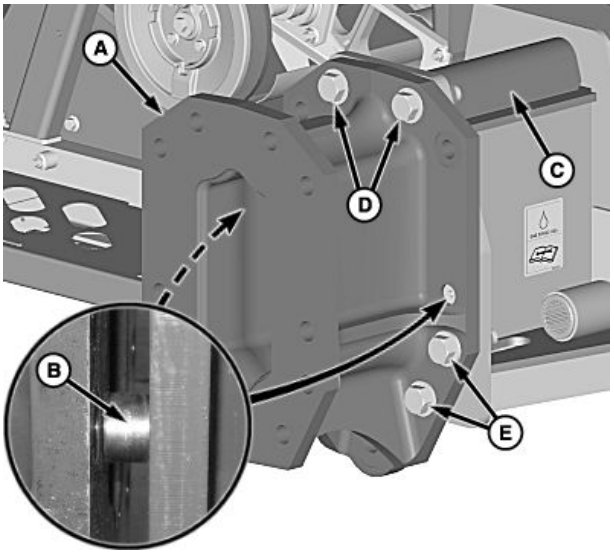
⚠ CAUTION: Use appropriate lifting device to attach axle extension to mainframe.

3. Align axle extension (A) with dowel pins (B) in axle mainframe (C).
4. Install washers and cap screws (D) and retain with nuts.
5. Tighten nuts to specification.

Specification	
Axle Extension Nuts—Torque (Lubricated)	455 N·m (340 lb.-ft.)

6. Install washers and cap screws (E) and retain with nuts.
7. Tighten nuts to specification.

Specification	
Axle Extension Nuts—Torque (Lubricated)	790 N·m (580 lb.-ft.)



H108227 —UN—11JUN13

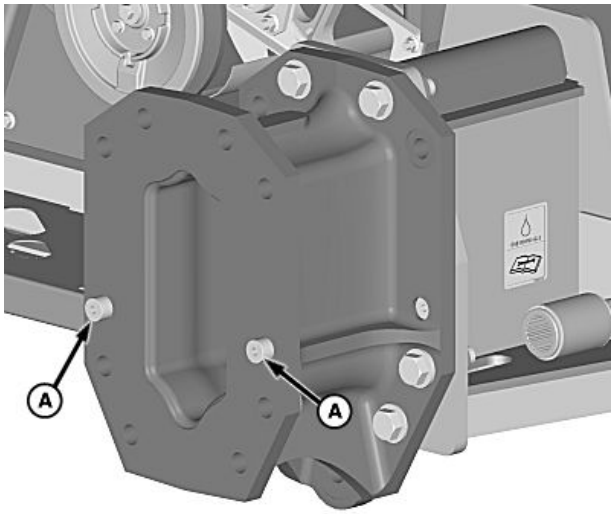
A—Axle Extension
B—Dowel Pins
C—Axle Mainframe
D—Washers, M24 and Cap Screws, M24 x 90 (2 used)
E—Washers, M24 and Cap Screws, M24 x 90 (4 used)

Continued on next page

OUO6075,00014E7 -19-18SEP13-2/3

8. Apply anti-seize to dowel pins (A) and install into axle extension.
9. Repeat steps on opposite side of machine.

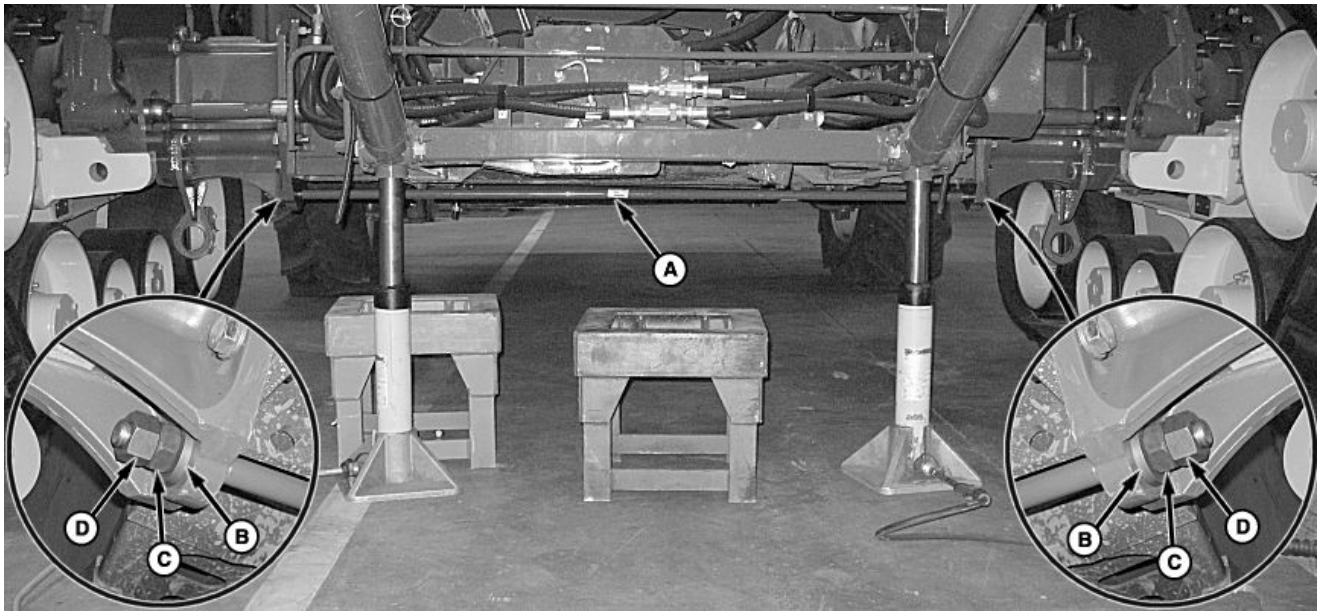
A—Dowel Pins (2 used)



H108228 —UN—11JUN13

OUO6075,00014E7 -19-18SEP13-3/3

Install Truss Rod



H108006 —UN—03JUN13

A—Truss Rod
B—Cupped Washer (2 used)
C—Inner Nut (2 used)
D—Outer Nut (2 used)

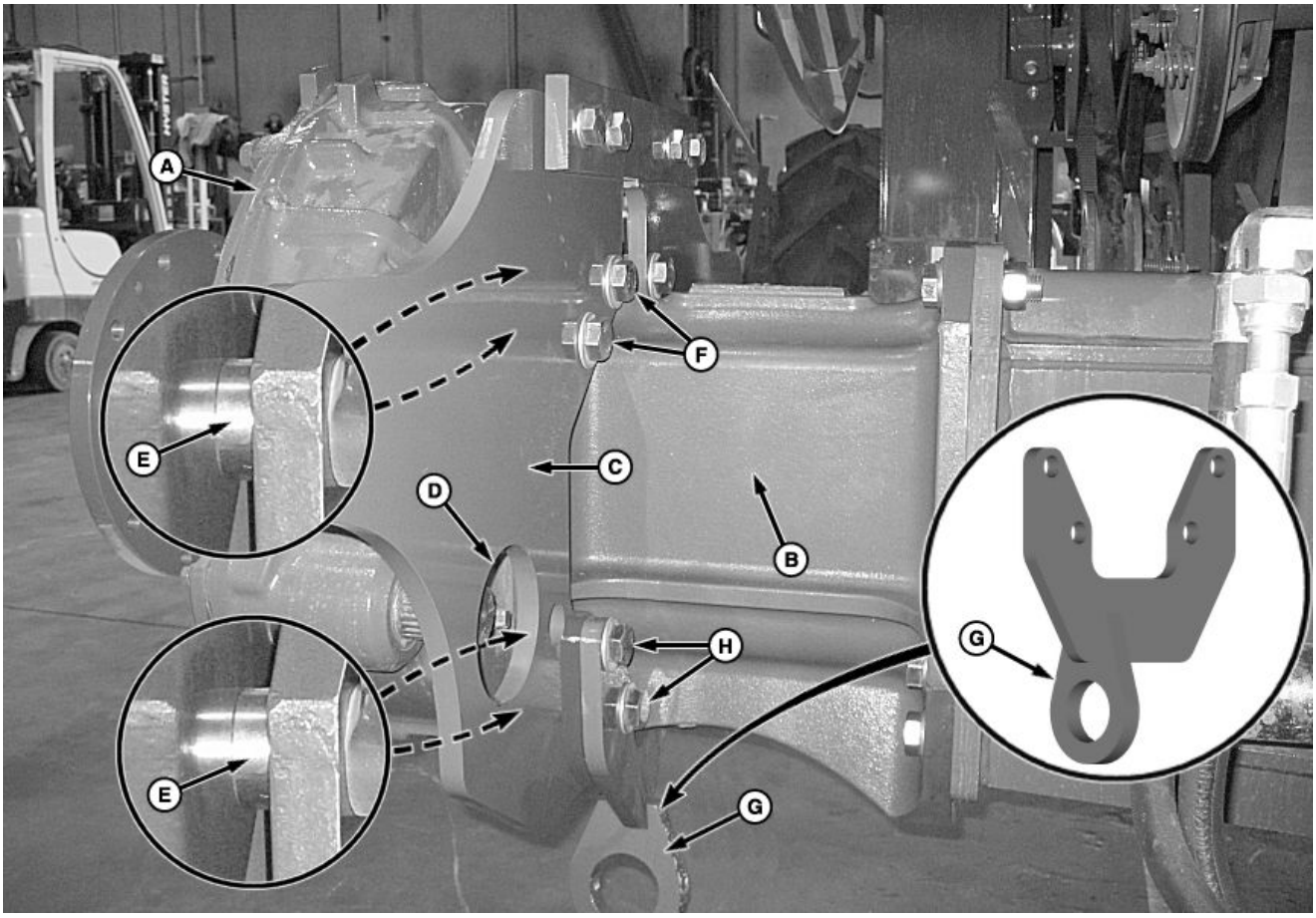
1. Slide truss rod (A) between axle extensions.
2. Install cupped washers (B) and inner nuts (C).
3. Hand tighten nuts on both ends of truss rod so it is centered (equal number of threads exposed on both sides of truss rod).
4. Install outer nuts (D) on both ends of truss rod.
5. Tighten outer nuts to specification.

Specification

Truss Rod Outer Nut—Torque	600 N·m (450 lb.-ft.)

OUO6075,00014E6 -19-03DEC13-1/1

Install Oscillation Stop Plates and Final Drives



Front Oscillation Stop Plate

A—Final Drive
B—Axle Extension
C—Oscillation Stop Plate
D—Drive Shaft Hole
E—Spacers (4 used)
F—Washers, M24 and Cap Screws, M24 X 100 (2 used)
G—Tow Cable Guide
H—Washers, M24 and Cap Screws, M24 X 120 (2 used)

1. Align final drive (A) with previously installed dowel pins in axle extension (B).

CAUTION: Use appropriate lifting device to attach oscillation stop plate.

2. Install oscillation stop plate (C) with drive shaft hole (D) so it faces towards front of machine.

IMPORTANT: Verify that spacers (E) DO NOT turn when oscillation stop plate hardware is tightened to specification. If spacers turn freely, see your John Deere dealer for further information.

NOTE: Additional spacers are supplied and must also be used.

3. Install previously removed spacers (E) between axle extension and oscillation stop plate.
4. Install washers and cap screws (F). Do not tighten hardware at this time.

IMPORTANT: Tow cable guide (G) MUST be oriented towards front of machine as shown.

5. Install tow cable guide (G) to bottom of oscillation stop plate as shown.
6. Install washers and cap screws (H). Do not tighten hardware at this time.

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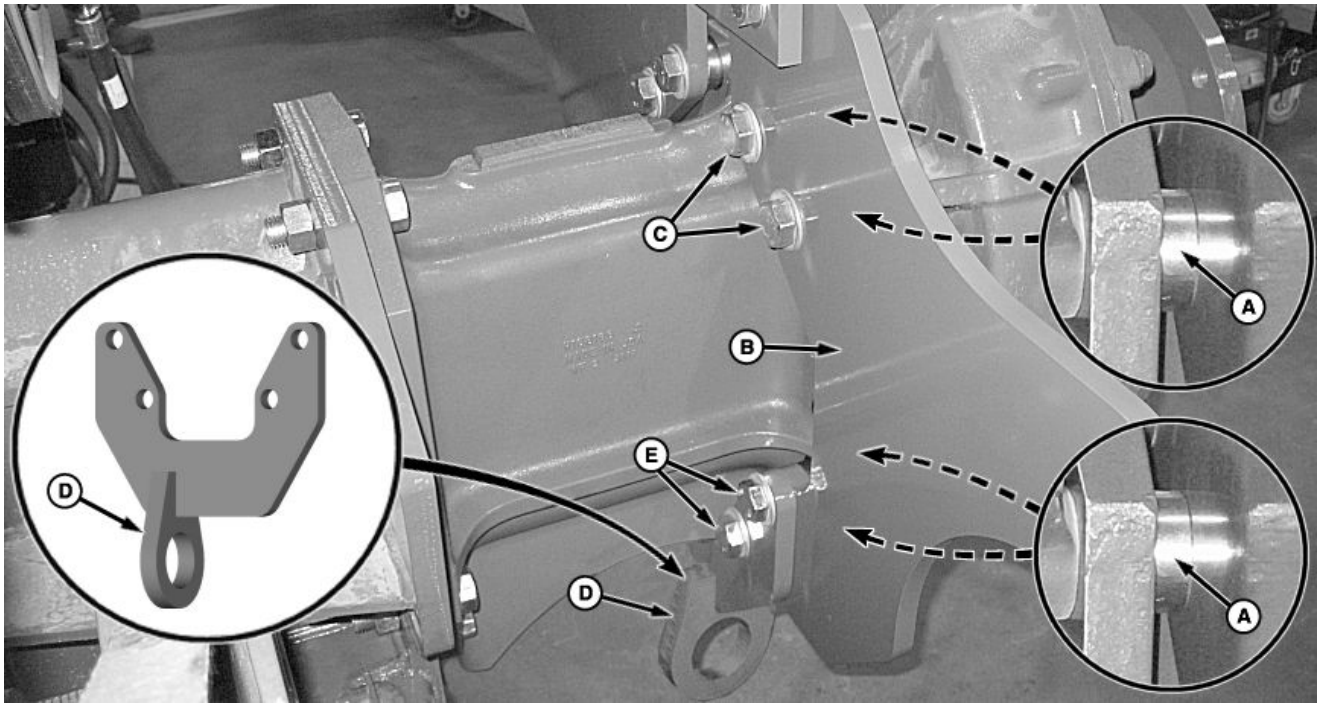
OUO6075,00014E9 -19-03DEC13-1/5



Rear Oscillation Stop Plate

A—Spacers (4 used)
B—Oscillation Stop Plate
C—Washers, M24 and Cap Screws, M24 X 100 (2 used)
D—Tow Cable Guide
E—Washers, M24 and Cap Screws, M24 X 120 (2 used)

IMPORTANT: Verify that spacers (A) DO NOT turn when oscillation stop plate hardware is tightened to specification. If spacers turn freely, see your John Deere dealer for further information.

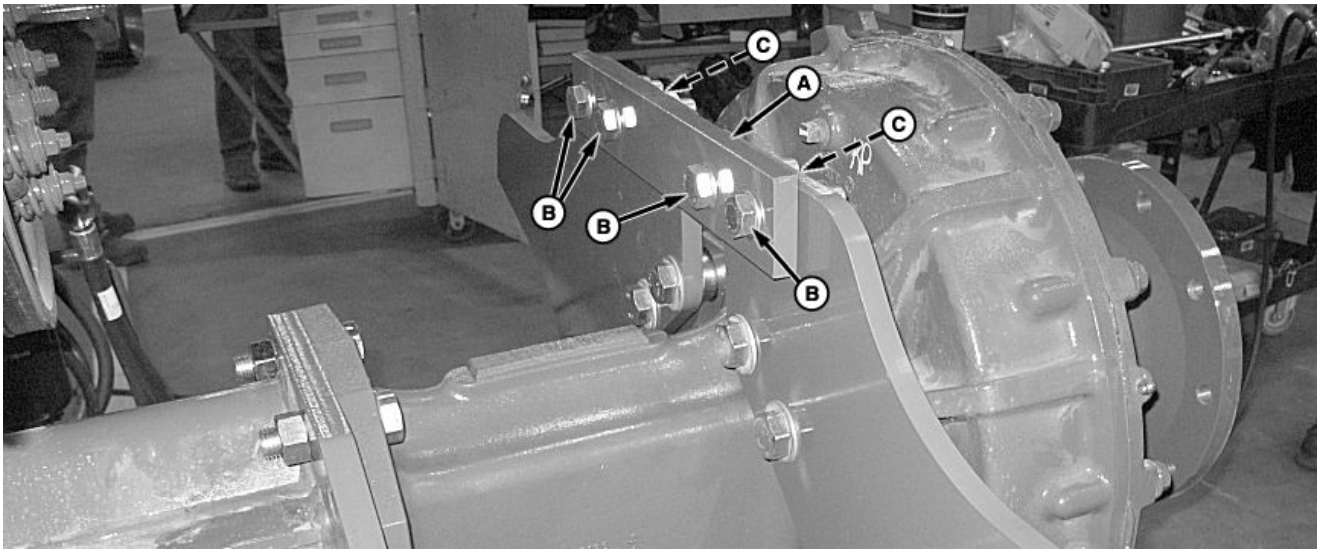
7. Install spacers (A) between axle extension and oscillation stop plate (B).
8. Install washers and cap screws (C). Do not tighten hardware at this time.

IMPORTANT: Tow cable guide (D) MUST be oriented towards front of machine as shown.

9. Install tow cable guide (D) to bottom of oscillation stop plate as shown.
10. Install washers and cap screws (E). Do not tighten hardware at this time.

Continued on next page

OUO6075,00014E9 -19-03DEC13-2/5



H107821 —UN—10MAY13

Oscillator Plate Connecting Strap

A—Oscillation Plate Connecting Strap

B—Cap Screws, M20 x 80 and Washers, M20 (4 used)

C—Washers, M20 and Nuts, M20 (4 used)

11. Install oscillation plate connecting strap (A) to front and rear oscillation stop plates as shown.
12. Install cap screws and washers (B) so threads are pointing towards outside of machine.
13. Install washers and nuts (C).
14. Tighten nuts to specification.

Specification	
Oscillation Plate Connecting Strap Nuts—Torque	542 N·m (400 lb.-ft.)

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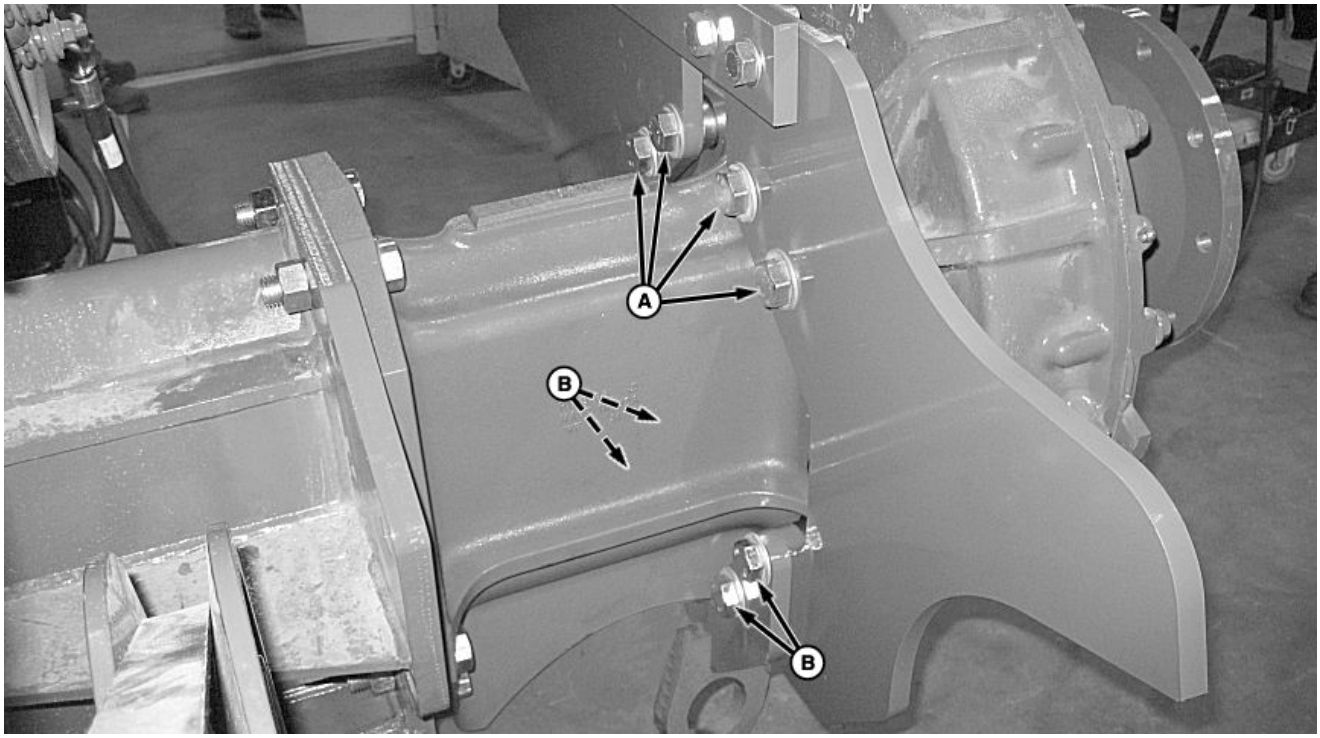
OUO6075,00014E9 -19-03DEC13-3/5



H108009 —UN—03JUN13

A—Cap Screws (4 used) **B—Cap Screws (4 used)**

IMPORTANT: Verify that previously installed spacers DO NOT turn when oscillation stop plate hardware is tightened to specification. If spacers turn freely, see your John Deere dealer for further information.

15. Tighten cap screws (A) to specification.

Specification	
Oscillation Stop Plate Cap Screws—Torque (Lubricated)	725 N·m (535 lb.-ft.)

IMPORTANT: Verify that previously installed spacers DO NOT turn when oscillation stop plate hardware is tightened to specification. If spacers turn freely, see your John Deere dealer for further information.

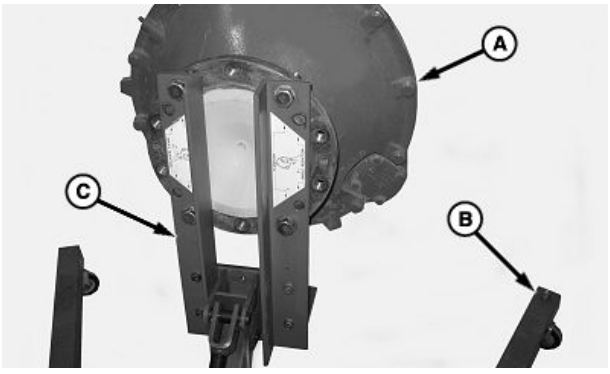
16. Tighten cap screws (B) to specification.

Specification	
Oscillation Stop Plate Cap Screws—Torque (Lubricated)	725 N·m (535 lb.-ft.)

OUO6075,00014E9 -19-03DEC13-4/5

17. Remove wheel bolts from final drive adapter (C).
18. Lower and remove service jack (B) from final drive (A).
19. Repeat steps on opposite side of machine.

A—Final Drive
B—Service Jack
C—Final Drive Adapter



H107401 —UN—04APR13

OUO6075,00014E9 -19-03DEC13-5/5

Install Adapter Plate

NOTE: Adapter plate comes attached to left-hand and right-hand track modules. Remove adapter plate from track modules and attach to machine.

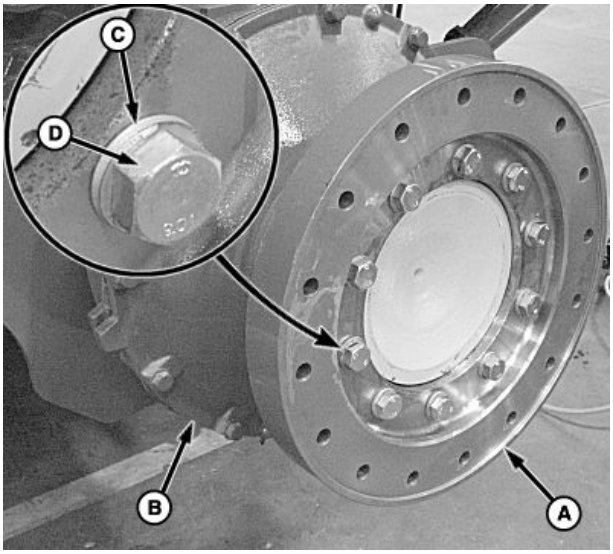
1. Remove rust, oil, or grease that may of accumulated on final drive wheel hub and adapter plate.
2. Install adapter plate (A) onto final drive wheel hub (B) as shown.
3. Install previously removed washers (C) and wheel bolts (D).
4. Tighten wheel bolts to specification in a criss/cross pattern.

Specification

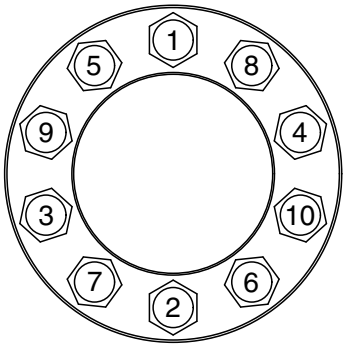
Wheel Bolts—Torque
(Lubricated).....710 N·m
(524 lb.-ft.)

5. Repeat steps on opposite side of machine.

A—Adapter Plate
B—Final Drive
C—Washer (10 used)
D—Wheel Bolts (10 used)



H107746 —UN—03MAY13

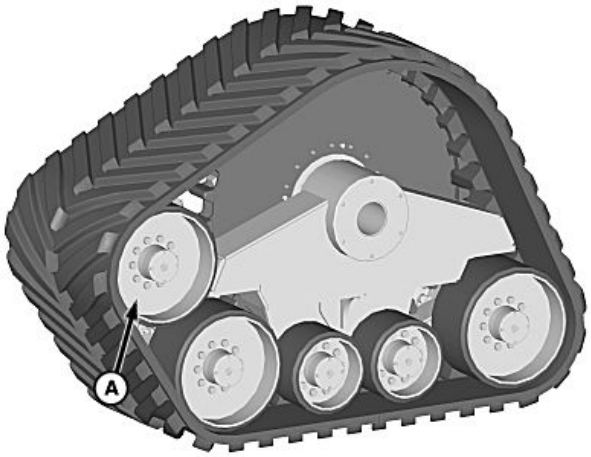


H96863 —UN—10JUN10

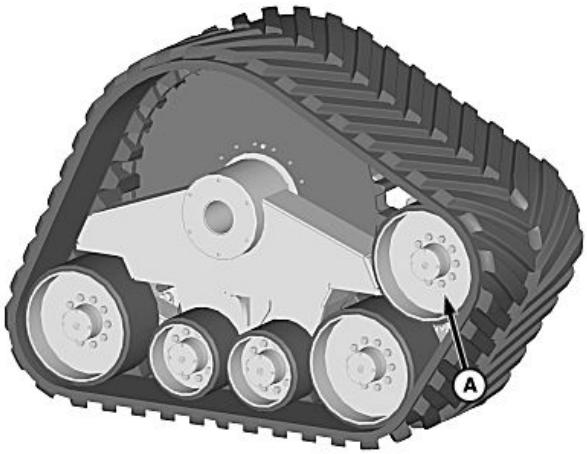
Torque Sequence

OUO6075,00014E3 -19-06JUN13-1/1

Determine Track Module Assemblies



Left-Hand Track Module



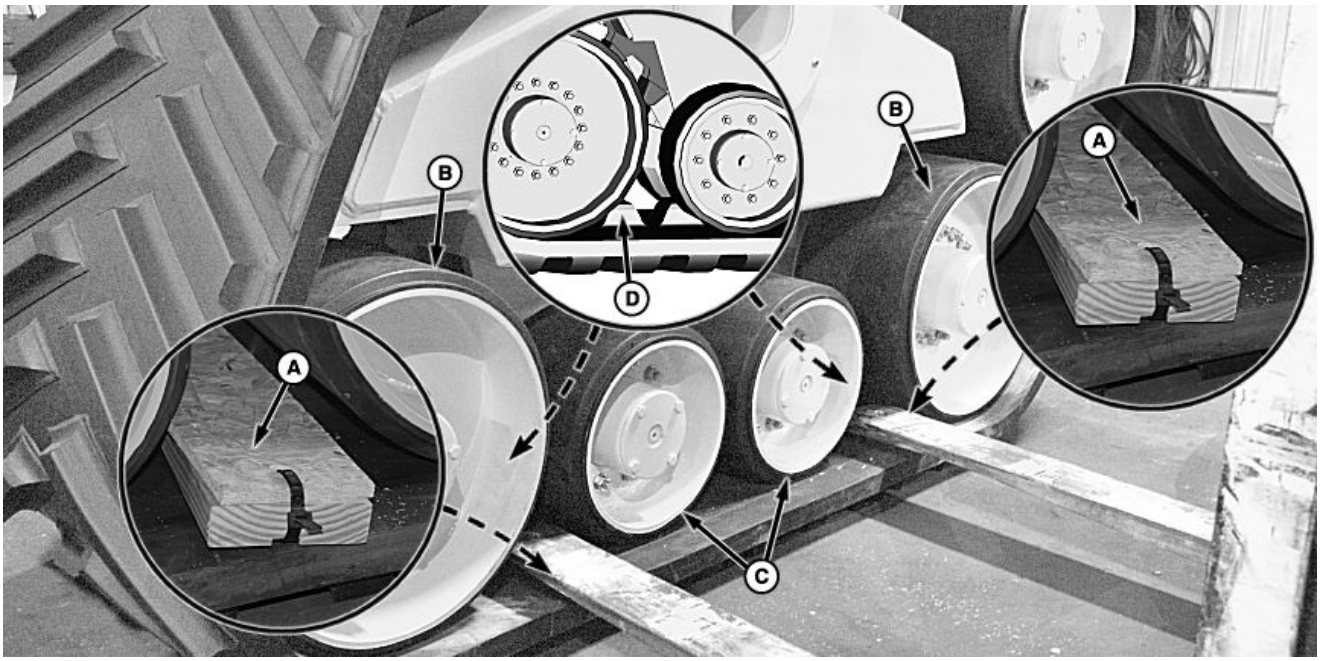
Right-Hand Track Module

A—Upper Idler Wheel

Upper idler wheel (A) at front of track module MUST be oriented towards front of machine.

OUO6075,00014E4 -19-03DEC13-1/1

Install Track Modules



A—Wooden Blocks B—Bogie Wheels C—Idler Wheels D—Drive Lug

CAUTION: Forklift MUST have a lifting capacity of 4,536 kg (10,000 lb.) to maneuver track module.

Width of forks MUST be less than 127 mm (5 in.).

Keep bystanders away while maneuvering track module to machine.

IMPORTANT: Forks MUST be on bottom side of wheels but high enough to clear drive lugs on belt.

Use a spotter from a safe distance to verify proper alignment of forks while forks enter track module to prevent damage to drive lugs.

1. Position forklift on outside of track module as shown.
2. Position forks on top of wooden blocks (A) and between bogie wheels (B) and idler wheels (C).
3. Verify that forks are high enough to clear drive lugs (D) on belt.

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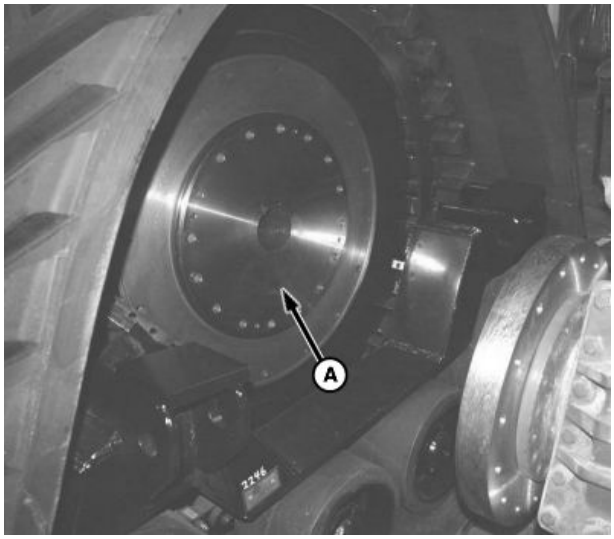
OUO6075,00014E1 -19-03DEC13-1/9

4. Clean track drive spindle (A) and around holes to a bare metal surface prior to installing hardware.

A—Track Drive Spindle



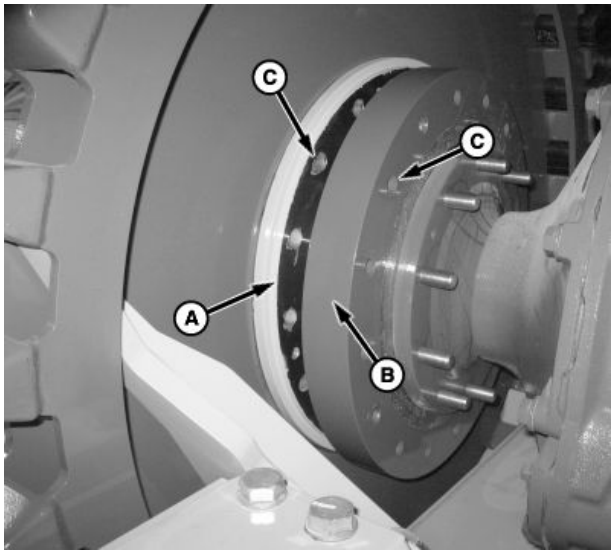
H107693 —UN—01MAY13

OUO6075,00014E1 -19-03DEC13-2/9

NOTE: Track module should be slightly tilted back at top away from machine.

5. Raise track module off floor and align with adaptor plate on final drive.
6. Slowly bring track module (A) in contact with adapter plate (B) on final drive and align holes (C).

A—Track Module
B—Adapter Plate
C—Holes



H107753 —UN—06MAY13

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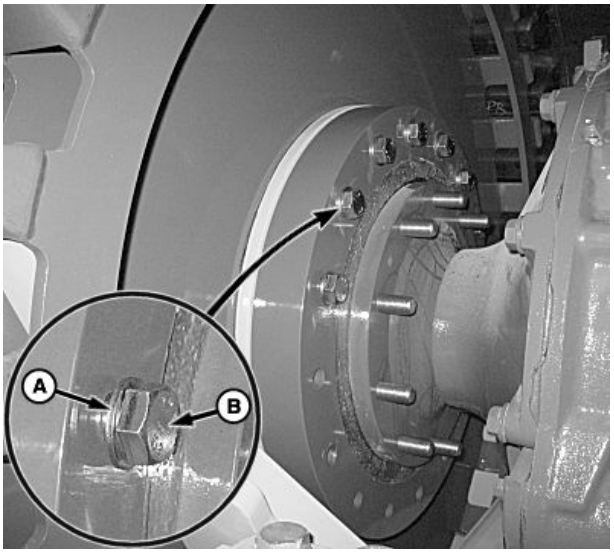
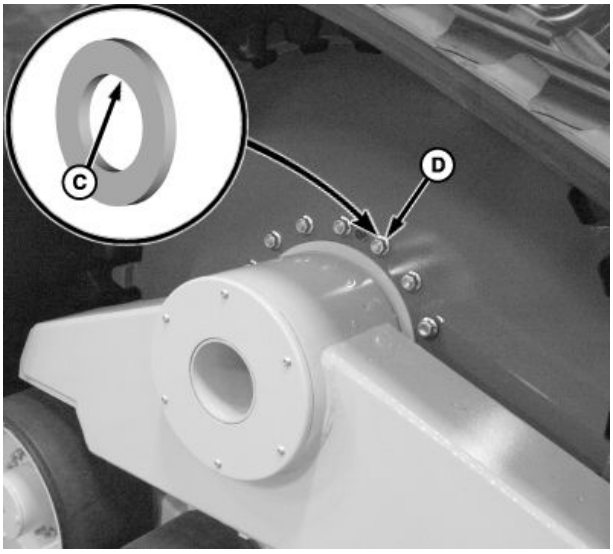
OUO6075,00014E1 -19-03DEC13-3/9



H107754 —UN—06MAY13



H107825 —UN—10MAY13

A—Washers, M20 (16 used)
B—Cap Screws, M20 x 120 (16 used)
C—Washers, M20 (16 used)
D—Nuts, M20 (16 used)

7. Install washers (A) and cap screws (B) from inside of track module so threads are pointing towards outside of machine.

NOTE: Not all washers and nuts will be accessible with mainframe being in the way. Machine will need to be moved slowly forward or rearward later on in the instruction to install next grouping of washers and nuts (five to six).

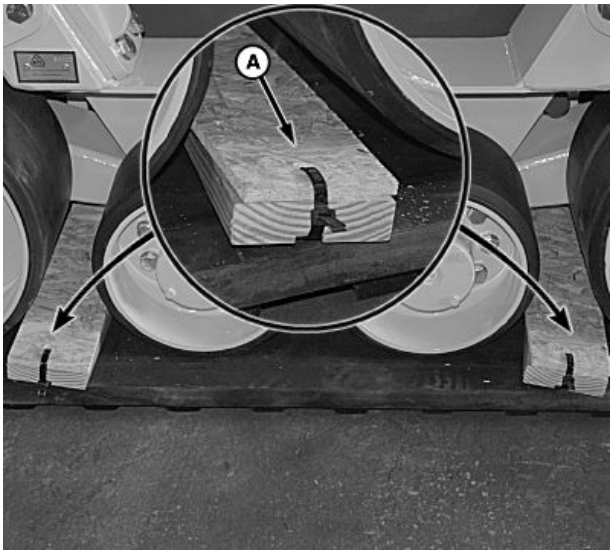
8. Install washer (C) and nuts (D) on outside of track module.
9. Tighten nuts to initial torque specification.

Specification	
Nuts—Initial Torque	339 N·m (250 lb.-ft.)

OUO6075,00014E1 -19-03DEC13-4/9

10. Remove and discard wooden blocks (A) between bogie wheels and idler wheels.

A—Wooden Blocks



H108888 —UN—20AUG13

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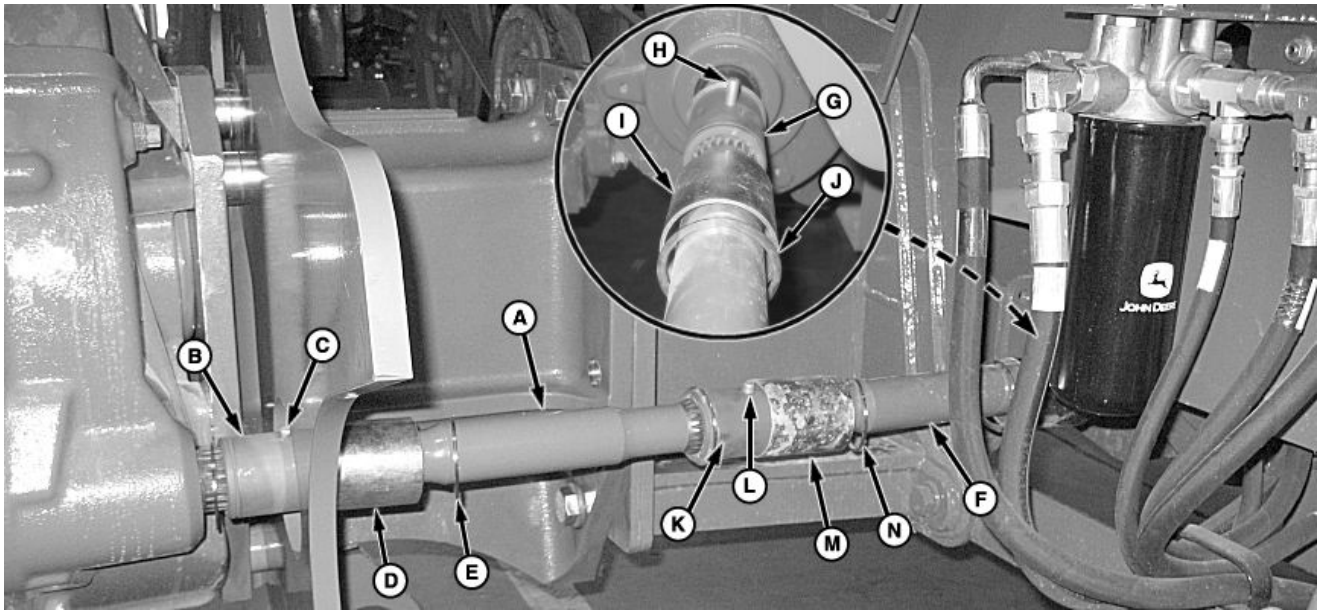
OUO6075,00014E1 -19-03DEC13-5/9



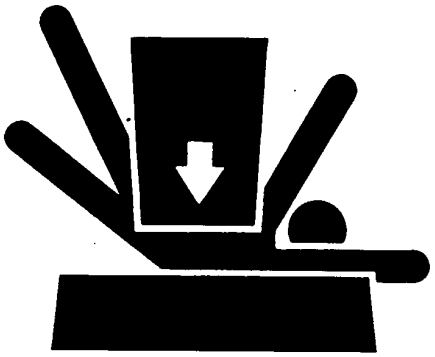
H107752 —UN—06MAY13

Drive Shaft Extension

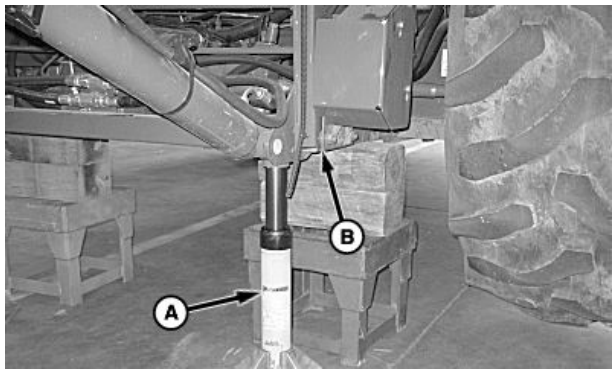
A—Drive Shaft Extension
B—Coupling
C—Pin
D—Sleeve
E—Snap Ring
F—Drive Shaft
G—Coupling
H—Pin
I— Sleeve
J— Snap Ring
K—Coupling
L— Pin
M—Sleeve
N—Snap Ring

11. Install drive shaft extension (A) and coupling (B) onto final drive as shown.
12. Install pin (C) and slide sleeve (D) over coupling and retain with snap ring (E).
13. Install drive shaft (F) (if previously removed) with coupling (G).
14. Install pin (H) and slide sleeve (I) over coupling and retain with snap ring (J).
15. Align drive shafts and install coupling (K).
16. Install pin (L) and slide sleeve (M) over coupling and retain with snap ring (N).

OUO6075,00014E1 -19-03DEC13-6/9



TS229 —UN—23AUG88



H107727 —UN—03MAY13

A—Jack
B—Front Axle

17. Remove blocking from under front axle (B).
18. Lower machine to ground and remove jack (A).

Continued on next page

OUO6075,00014E1 -19-03DEC13-7/9

19. Start machine and move slowly forward or rearward enough to install next grouping of washers and nuts (A) (five to six).
20. Tighten track module nuts to initial torque specification.

Specification

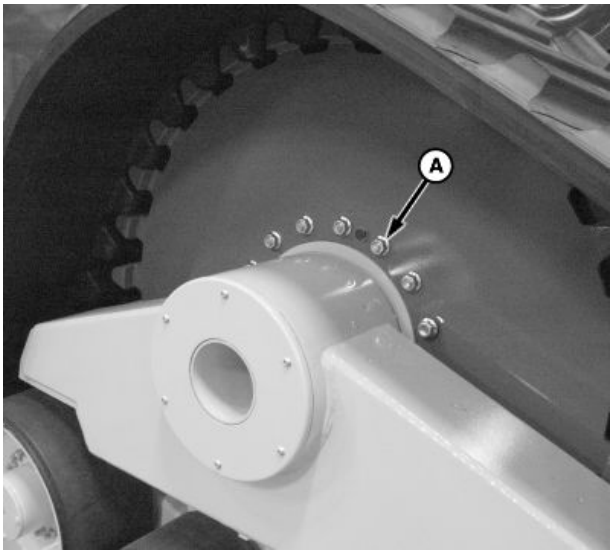
Track Module
Nuts—Initial Torque.....339 N·m (250 lb.-ft.)

21. Repeat steps until all track module washers and nuts are installed.
22. Tighten track module nuts (A) to final torque specification.

Specification

Track Module
Nuts—Final Torque.....542 N·m (400 lb.-ft.)

23. Move machine slowly forward or rearward enough to tighten next grouping of nuts (five to six) to final torque specification.
24. Repeat steps until ALL track module nuts are tightened to final torque specification.



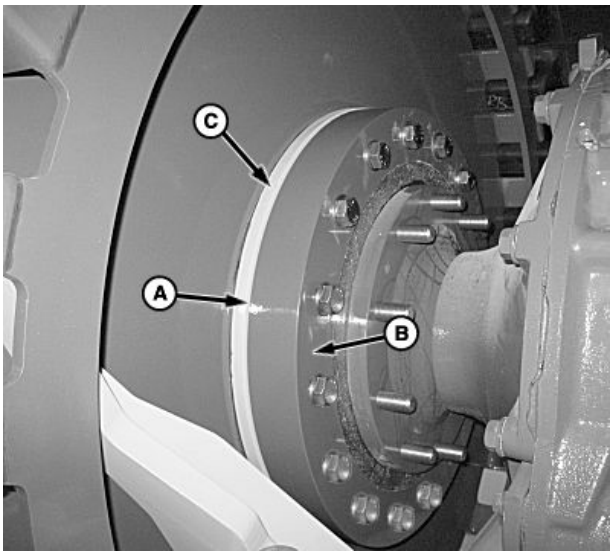
H107775 —UN—06MAY13

A—Nuts (16 used)

OUO6075,00014E1 -19-03DEC13-8/9

25. Examine gap (A) between adaptor plate (B) and track module drive spindle (C) to verify that it is perpendicular to machine.
26. Repeat steps on opposite side of machine.

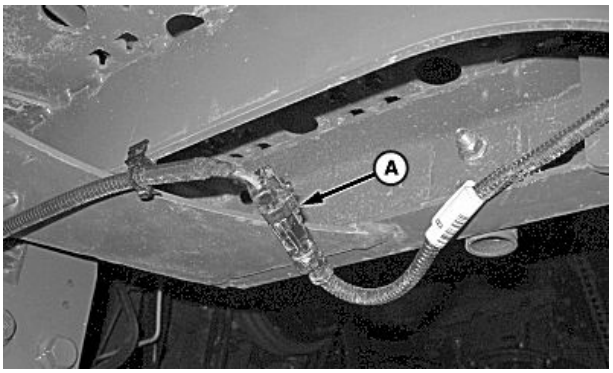
A—Gap
B—Adaptor Plate
C—Track Module Drive Spindle



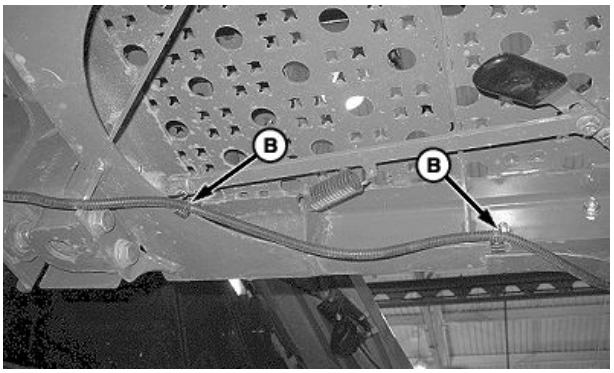
H107774 —UN—06MAY13

OUO6075,00014E1 -19-03DEC13-9/9

Install Cab Ladder Plates (If Required)



H99733 —UN—13JAN11



H99734 —UN—13JAN11

A—Harness Connector **B—Clips**

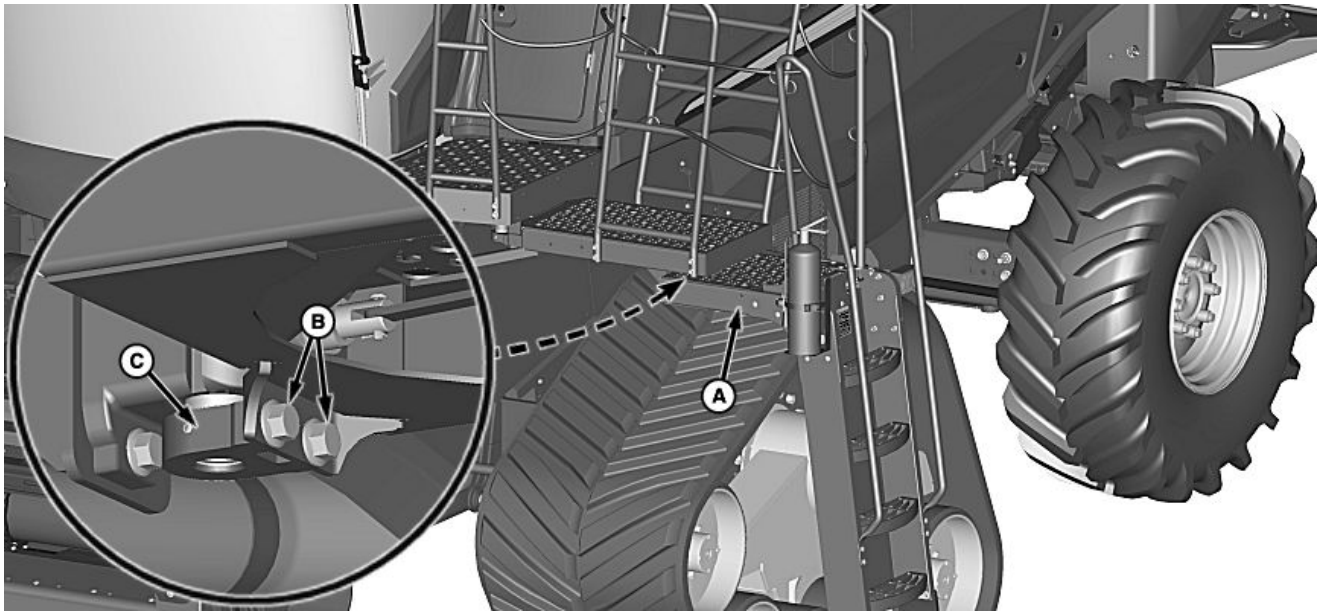
NOTE: Plates only need to be used when installing 400 mm (16 in.) axle extensions.

Retain all hardware and components unless otherwise noted.

CAUTION: Verify that ladder is locked into position over tracks before removing.

1. Disconnect wiring harness connector (A) and remove clips (B) from platform.
2. Unhook chains from handrails.

OUO6075,00016F1 -19-04DEC13-1/6



H109540 —UN—04DEC13

A—Ladder **C—Lower Bushing**
B—Cap Screws (2 used)

CAUTION: To avoid serious injury, use extreme caution when removing ladder from platform.

NOTE: Use a suitable lifting device to support and remove ladder to avoid personal injury.

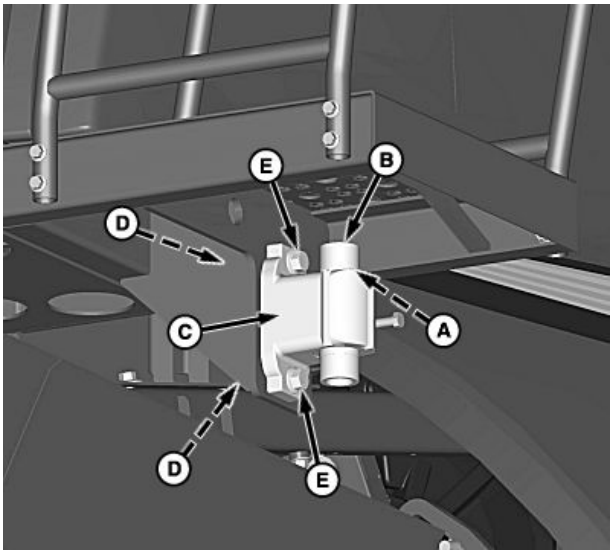
3. Attach suitable lifting device to support ladder (A).
4. Remove cap screws (B) from lower bushing (C).
5. Remove ladder assembly from platform.

Continued on next page

OUO6075,00016F1 -19-04DEC13-2/6

6. Remove snap ring (A) and pin (B) from pivot (C).
7. Remove and discard nuts (D) and cap screws (E).

A—Snap Ring
B—Pin
C—Pivot
D—Nuts (2 used)
E—Cap Screws (2 used)



H109541 —UN—04DEC13

OUO6075,00016F1 -19-04DEC13-3/6

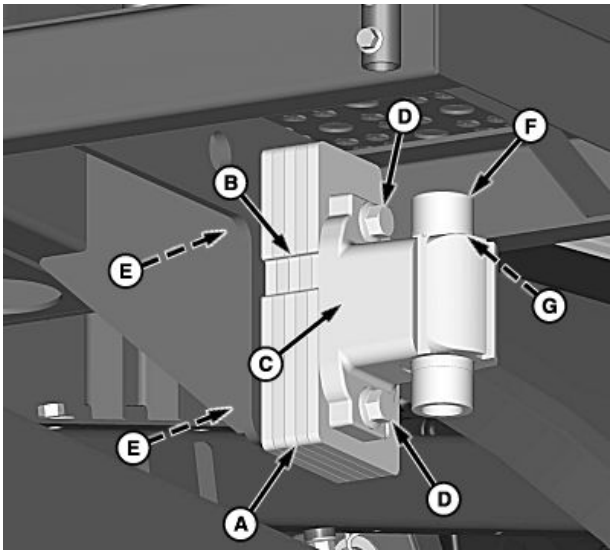
8. Install supplied plates (A) as shown with notches (B) pointing towards front of machine.
9. Install previously removed pivot (C) and retain with supplied cap screws (D) and nuts (E).
10. Tighten nuts to specification.

Specification

Nuts—Torque..... 298 N·m (220 lb.-ft.)

11. Install previously removed pin (F) and retain with previously removed snap ring (G).

A—Plates (5 used)
B—Notches
C—Pivot
D—Cap Screws, M16 x 110 (2 used)
E—Nuts, M16 (2 used)
F—Pin
G—Snap Ring



H109542 —UN—04DEC13

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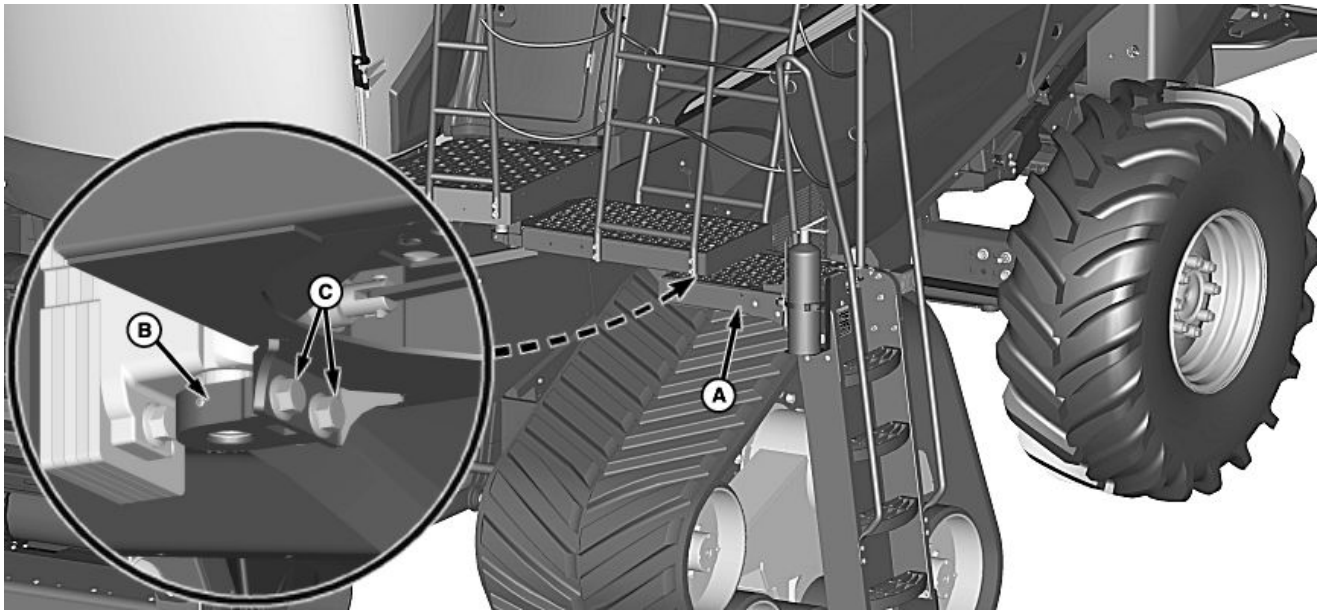
OUO6075,00016F1 -19-04DEC13-4/6



H109543 —UN—04DEC13

A—Ladder
B—Lower Bushing
C—Cap Screws (2 used)

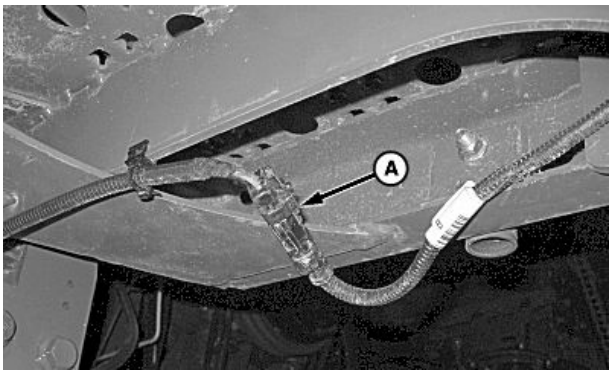
⚠ CAUTION: To avoid serious injury, use extreme caution when installing ladder to platform.

NOTE: Use a suitable lifting device to support and install ladder to avoid personal injury.

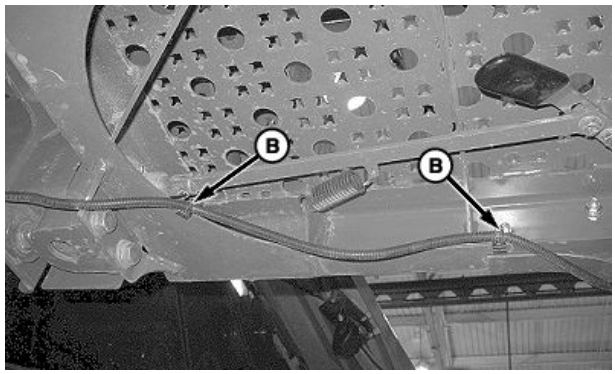
12. Attach suitable lifting device to ladder (A).
13. Align upper bushing on ladder assembly with previously installed pin.
14. Install previously removed lower bushing (B) and retain with previously removed cap screws (C).
15. Tighten cap screws to specification.

Specification	
Cap Screws—Torque	298 N·m (220 lb.-ft.)

OUO6075,00016F1 -19-04DEC13-5/6



H99733 —UN—13JAN11



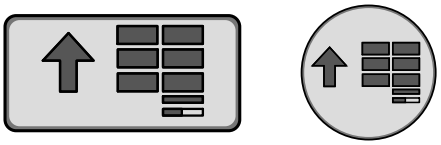
H99734 —UN—13JAN11

A—Harness Connector
B—Clips

16. Attach previously removed chains to handrails.
17. Connect wiring harness connector (A) and attach clips (B) to platform.

OUO6075,00016F1 -19-04DEC13-6/6

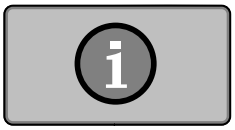
Change CAB Control Unit Address 130 (GreenStar™ 3 CommandCenter™ Display)



Main Menu Icon (Display) / Main Menu Switch (Armrest)

H95846 —UN—31MAR10

H95878 —UN—29MAR10



Message Center Application Icon

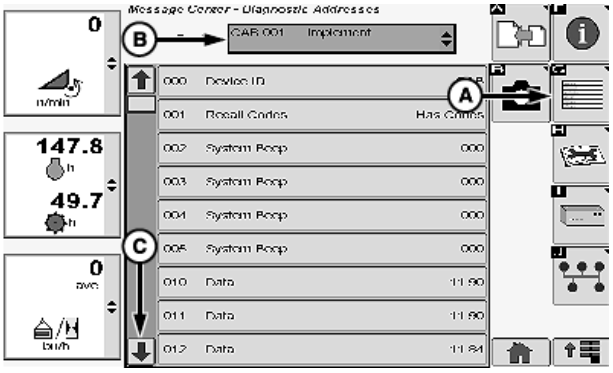
1. Turn key switch ON. Do not start engine.
2. Press main menu icon or switch.
3. Touch or press confirm switch when the message center icon is highlighted.

AS09261,00001B4 -19-15FEB17-1/6

4. Touch or press confirm switch when the diagnostic address icon (A) is highlighted.

NOTE: Touch or press confirm switch when down arrow is highlighted to scroll through listing.

5. Touch or press confirm switch when the device drop-down menu (B) is highlighted.
6. Touch or press confirm switch when **CAB** control unit is highlighted in the menu listing.
7. Touch or press confirm switch when down arrow (C) is highlighted.
8. Touch or press confirm switch when **address 130** is highlighted in the menu listing.



H101579 —UN—17MAY11

A—Diagnostic Address Icon
B—Device Drop Down Menu
C—Scroll Down Arrow

AS09261,00001B4 -19-15FEB17-2/6

NOTE: Front tire rolling radius MUST be changed to 727 for correct rolling radius of track.

Leading zero for the front tire rolling radius value will not appear. Example: 0920 is displayed as 920.

9. Record tire rolling radius values shown on display:

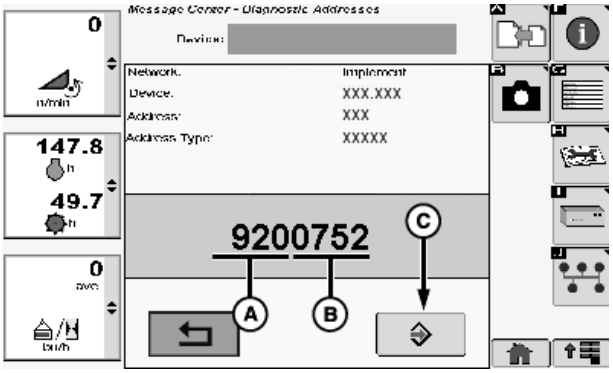
Front Tire Rolling Radius Value (A):

— — — —

Rear Tire Rolling Radius Value (B):

— — — —

10. Touch or press confirm switch when the enter/accept icon (C) is highlighted.



H107795 —UN—09MAY13

Reference Display Screen

A—Front Tire Rolling Radius Value
B—Rear Tire Rolling Radius Value
C—Enter/Accept Icon

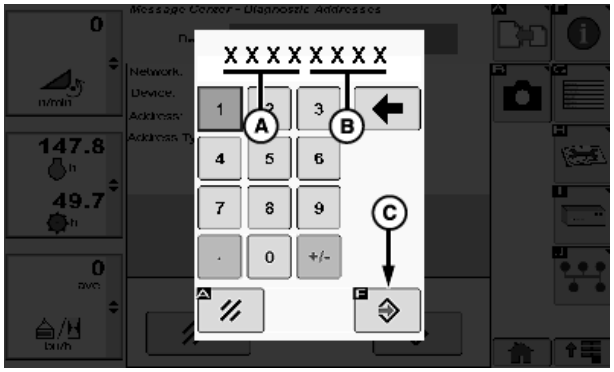
Continued on next page

AS09261,00001B4 -19-15FEB17-3/6

NOTE: Leading zero for the front tire rolling radius value cannot be entered. Example: 0727 must be entered as 727.

727 MUST be entered for the correct rolling radius of track.

11. Touch or press confirm switch when **7, 2, 7** digits are highlighted for the front tire rolling radius value (A).
12. Touch or press confirm switch when previously recorded digits are highlighted for the rear tire rolling radius value (B).
13. Touch or press confirm switch when the enter/accept icon (C) is highlighted.



H107797 —UN—09MAY13

Reference Display Screen

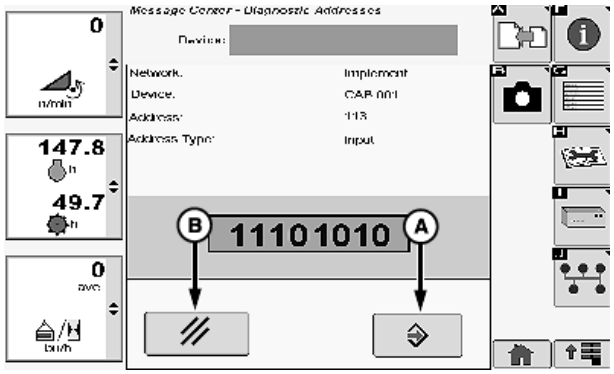
A—Front Tire Rolling Radius Value
B—Rear Tire Rolling Radius Value
C—Enter/Accept Icon

AS09261,00001B4 -19-15FEB17-4/6

NOTE: Touch or press confirm switch when the cancel icon (B) is highlighted to cancel address value.

14. Touch or press confirm switch when the enter/accept icon (A) is highlighted to save address value.

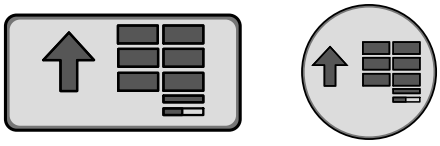
A—Enter/Accept Icon
B—Cancel Icon



H101580 —UN—17MAY11

AS09261,00001B4 -19-15FEB17-5/6

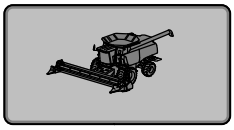
H95845 —UN—31MAR10



H95878 —UN—29MAR10

Main Menu Icon (Display) / Main Menu Switch (Armrest)

15. Press main menu icon or switch.



Combine Main Application Icon

16. Touch or press confirm switch when the combine main page icon is highlighted.

AS09261,00001B4 -19-15FEB17-6/6

Change CAB Control Unit Address 130 (Generation 4 CommandCenter™ Display)

1. Turn key switch ON. Do not start engine.
2. Select MENU button.

H113668 —UN—22OCT15

MENU Button

AS09261,00001B3 -19-15FEB17-1/9

3. Select System tab.

H117732 —UN—17MAR16

System Tab

AS09261,00001B3 -19-15FEB17-2/9

4. Select Diagnostics Center button.

H117733 —UN—17MAR16

Diagnostics Center

AS09261,00001B3 -19-15FEB17-3/9

5. Select Controller Diagnostics tab.

H117734 —UN—17MAR16

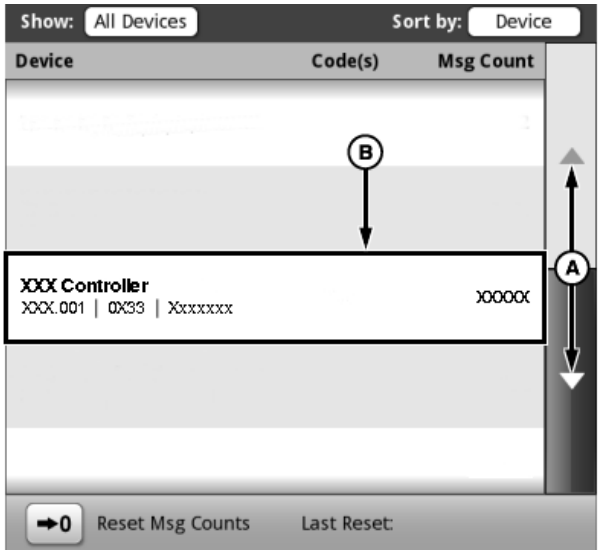
Controller Diagnostics Tab

Continued on next page

AS09261,00001B3 -19-15FEB17-4/9

6. Select up or down arrows (A) to scroll through the control unit list.
7. Select **CAB** control unit (B).

A—Arrows **B—Control Unit**



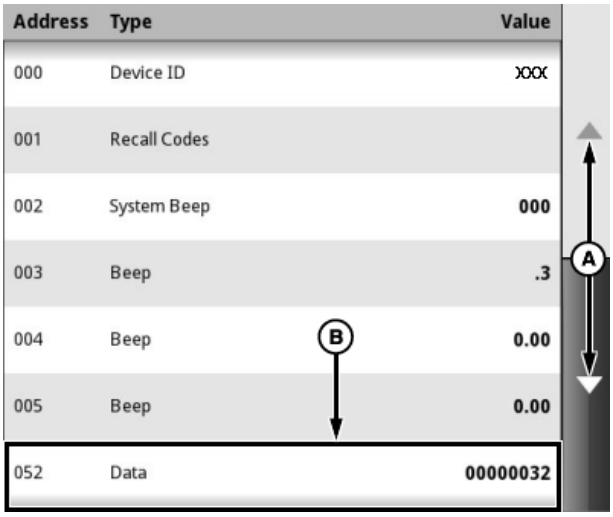
H117945 —UN—29MAR16

Example Screen Only

AS09261,00001B3 -19-15FEB17-5/9

8. Select up or down arrows (A) to scroll through the address list.
9. Select **address 130** (B).

A—Arrows **B—Address**



H117946 —UN—29MAR16

Example Screen Only

Continued on next page

AS09261,00001B3 -19-15FEB17-6/9

NOTE: Front tire rolling radius MUST be changed to 727 for correct rolling radius of track.

Leading zero for the front tire rolling radius value will not appear. Example: 0920 is displayed as 920.

10. Record tire rolling radius values shown on display:

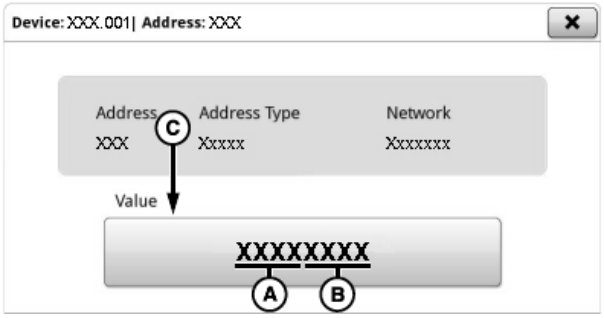
    Front Tire Rolling Radius Value (A):

    — — — —

    Rear Tire Rolling Radius Value (B):

    — — — —

11. Select address value (C).



H120849 —UN—15FEB17

Example Screen Only

A—Front Tire Rolling Radius Value
B—Rear Tire Rolling Radius Value
C—Address Value

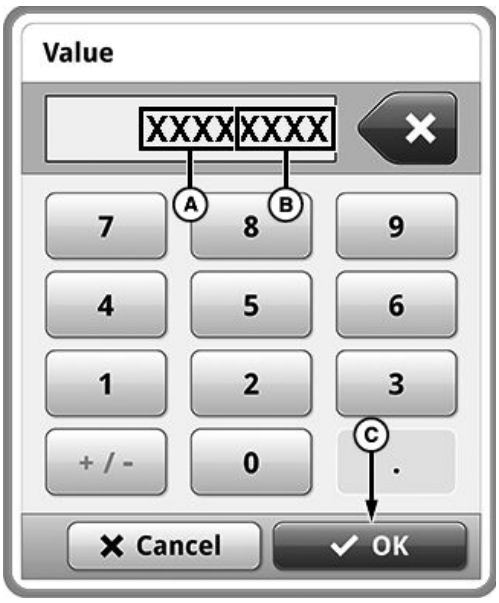
AS09261,00001B3 -19-15FEB17-7/9

NOTE: Leading zero for the front tire rolling radius value cannot be entered. Example: 0727 must be entered as 727.

727 MUST be entered for the correct rolling radius of track.

12. Enter digits **7, 2, 7** for the front tire rolling radius value (A).
13. Enter previously recorded digits for the rear tire rolling radius value (B).
14. Select OK button (C) to save modified value.

A—Front Tire Rolling Radius Value
B—Rear Tire Rolling Radius Value
C—OK Button



H120848 —UN—15FEB17

Number Pad

AS09261,00001B3 -19-15FEB17-8/9

15. Select Close button to return to previous Controller page.
16. Select Close button to return to previous Diagnostics Center page.
17. Select Close button to return to previous Menu page.
18. Select Close button to return to previous Home page.

N118396 —UN—17FEB16

Close Button

AS09261,00001B3 -19-15FEB17-9/9

Track Break-In Procedure

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: The following break-in procedure is for a modular track system after installation of a new track system, or installation of a new track belt. Prior to operating machine, talc must be applied to drive lugs of rubber track belt to aid in proper belt conditioning.

Pour one cup of talc to front and rear drive wheel areas (A) as shown.

Move machine forward or in reverse to spread talc over drive lug teeth.

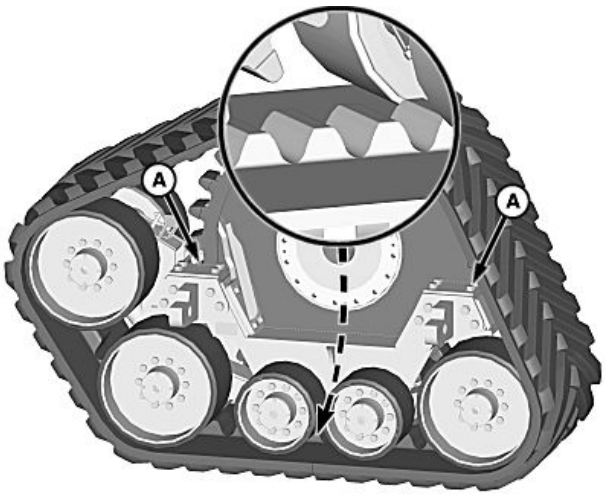
Verify that guide/drive lugs have talc on all surfaces.

Always expose new or clean track to dry and dusty soil conditions as soon as possible.

Run machine for approximately ten hours after installation.

Check hydraulic pressure on track tensioning system and adjust as needed.

Check track module hardware torque and retighten as needed.

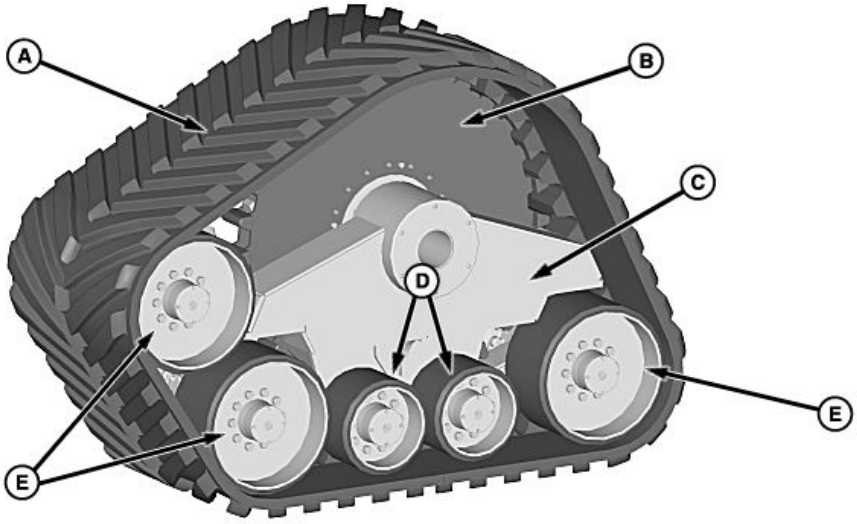


H107637 —UN—21MAY13

A—Front and Rear Drive Wheel Areas

OUO6075,00014E5 -19-03DEC13-1/1

Track Components



H107569 —UN—21MAY13

A—Rubber Track Belt
B—Drive Wheel
C—Main Frame
D—Bogie Wheels
E—Idler Wheels

OUO6075,00014BB -19-05JUN13-1/1

Track Features and Benefits

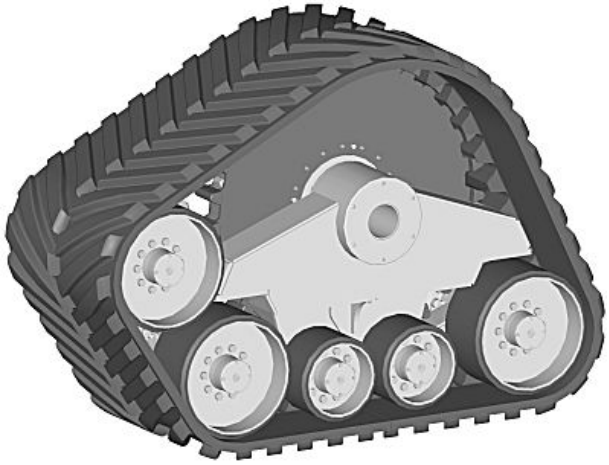
Features and benefits of tracks:

- Compaction – reduces compaction and soil pumping
- Flotation – increased flotation in adverse conditions
- Traction – maximum pulling efficiency
- Flexibility – easily installed and interchanged between vehicles
- Soft Ride – rubberized idlers and bogies cushion ride
- Low Maintenance – all bearings sealed and lubed for life
- Auto Tension – efficient absorption of impacts or ingestion of debris
- Dual Tensioning – dual cylinders maintain low belt tension for efficient operation
- Integrated Track – continuous rubber track minimizes surface damage
- Positive Drive – gently spreads torque on rubber belt with low rolling resistance
- Speed – normal operating range maintained
- Stability – low center of gravity for improved stability

Tracks are installed on the left-hand and right-hand side of the front axle instead of the normal drive wheels.

Weight force is transmitted from the main frame to the idler wheels and bogie wheels.

Idler wheels and bogie wheels along with the dual auto tensioning system compensate for uneven ground terrain.



H107570 —UN—21MAY13

This results in even ground pressure over the entire track area.

OUO6075,00014BC -19-05JUN13-1/1

Operate Track Machines

H107801 —UN—09MAY13

IMPORTANT: Whenever possible avoid transporting machine with header attached. High speed road travel increases tread wear rates and builds excessive heat, which can reduce drive lug life. Road travel should be avoided prior to completing break-in period, particularly on asphalt roads. If road travel is necessary with new tracks, reduce transport speed and apply talc to drive lugs to aid in proper belt conditioning.

NOTE: Driving a machine with tracks is the same as driving a machine with tires. Therefore, instructions on how to drive a combine is given in the Combine Operator's Manual.

There are no differences between operating machines with tracks versus machines with wheels. All controls and shift functions remain the same as a machine with wheels.

Track machines allow for a higher front axle load capacity and provide more traction.

Machine behavior on paved roads is similar to behavior of machine with wheels. On non-paved, poor roads and in field, machine behavior is more comfortable because the dual auto tensioning system compensates better for uneven ground and machine is not prone to bounce.

Refer to Combine Operator's Manual for operational information not related to tracks.

OUO6075,00014BD -19-03DEC13-1/1

Track Tensioning System

Nitrogen Pressure

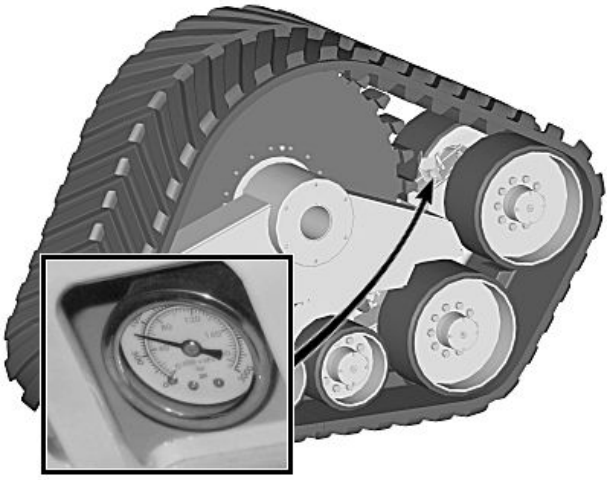
Hydraulic cylinder has an internal nitrogen accumulator which comes pre-charged from the factory. Pressure does not need to be checked unless there is a sudden drop in hydraulic pressure with no sign of fluid loss. See your John Deere dealer for further information.

Hydraulic Pressure

Hydraulic pressure gauge is located between the high idler wheels at location shown. Gauge is used to provide a quick visual check to verify that pressure is within recommended operating range.

Hydraulic pressure must be between 4,826—5,861 kPa (48—59 bar) (700—850 psi). Ideal operating pressure is 5,171 kPa (52 bar) (750 psi).

If pressure is outside of these ranges it must be adjusted. If pressure is too low, this indicates that there is a leak somewhere in the hydraulic system and a closer inspection must be performed. See your John Deere dealer for further information.



H107807 —UN—21MAY13

OUO6075,00014BE -19-03DEC13-1/1

Ballast Requirements (Track Configuration) (S670 and S770)

NOTE: Ballast requirements shown for 700 series corn heads and 700D series drapers are compatible for 600 series corn heads and 600D series drapers.

Ballast requirements vary based on configuration.

Ballast requirements based off standard Corn Pricing configuration, 133 L (35 gal) fuel in tank and full grain tank. This may not reflect all scenarios.

Tires requiring fluid must be filled to 75%.

	Normal (Slopes of 15% or less)				Extremely Hilly (Slopes greater than 15%)			
	Two-Wheel Drive		Four-Wheel Drive		Two-Wheel Drive		Four-Wheel Drive	
	Fluid Required		Fluid Required		Fluid Required		Fluid Required	
Header	No	Yes	No	Yes	No	Yes	No	Yes
708C	0	0	0	0	0	0	0	0
708C-SM	0	0	0	0	0	0	0	0
712C	0	0	0	0	NR	4, 5, 6	NR	1, 2, 3, 4, 5, 6
712C-SM	0	0	0	0	NR	NR	NR	4, 5, 6
708FC	NR	1, 2, 3, 4, 5, 6	NR	1, 2, 3, 4, 5, 6	NR	NR	NR	NR
712FC	NR	1, 2, 3, 4, 5, 6	NR	1, 2, 3, 4, 5, 6	NR	NR	NR	NR
716C	NR	1, 2, 3, 4, 5, 6	0	0	NR	NR	NR	NR
718C	NR	4	NR	1, 2, 3, 4, 5, 6	NR	NR	NR	NR
615 BPU	0	0	0	0	0	0	0	0
618R & F	0	0	0	0	0	0	0	0
620R & F	0	0	0	0	0	0	0	0
622R & F	0	0	0	0	0	0	0	0
625R & F	0	0	0	0	0	0	0	0
630R & F	0	0	0	0	NR	1, 2, 3, 4, 5, 6	0	0
635F	0	0	0	0	NR	4, 5	NR	1, 2, 3, 4, 5, 6
725D	0	0	0	0	NR	4	NR	1, 2, 3, 4, 5, 6
730D	0	0	0	0	NR	NR	NR	NR
735D	NR	1, 2, 3, 4, 5, 6	0	0	NR	NR	NR	NR
740D	NR	2, 3, 4, 5, 6	4, 5, 6	1, 2, 3	NR	NR	NR	NR
630FD	0	0	0	0	NR	NR	NR	4, 5, 6
635FD	1, 3, 4, 5, 6	2	0	0	NR	NR	NR	NR
640FD	NR	1, 2, 3, 4, 5, 6	0	0	NR	NR	NR	NR

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
C = Corn Head
C-SM = Corn Head with StalkMaster™
FC = Folding Corn Head

0 = No ballast required for any rear tire option.
1 = 600/70R28 rear tires.
2 = 23.1R26 rear tires.
3 = 620/75R26 (or 620/70R26) rear tires.
4 = 750/65R26 rear tires.
5 = 710/65R26 rear tires.
6 = 710/60R30 rear tires.
NR = Not recommended since machine with header cannot be properly ballasted.

StalkMaster is a trademark of Deere & Company

AS09261,00001B5 -19-18MAY17-1/1

Ballast Requirements (Track Configuration) (S680, S690, S780, and S790)

NOTE: Ballast requirements shown for 700 series corn heads and 700D series drapers are compatible for 600 series corn heads and 600D series drapers.

Ballast requirements vary based on configuration.

Ballast requirements based off standard Corn Pricing configuration, 133 L (35 gal) fuel in tank and full grain tank. This may not reflect all scenarios.

Tires requiring fluid must be filled to 75%.

	Normal (Slopes of 15% or less)				Extremely Hilly (Slopes greater than 15%)			
	Two-Wheel Drive		Four-Wheel Drive		Two-Wheel Drive		Four-Wheel Drive	
	Fluid Required		Fluid Required		Fluid Required		Fluid Required	
Header	No	Yes	No	Yes	No	Yes	No	Yes
712C	0	0	0	0	2, 4	1, 3	0	0
712C-SM	0	0	0	0	NR	2, 3, 4	NR	1, 2, 3, 4
708FC	NR	1, 2, 3, 4	NR	1, 2, 3, 4	NR	NR	NR	NR
712FC	NR	1, 2, 3, 4	NR	1, 2, 3, 4	NR	NR	NR	NR
712FC-SM	NR	1, 2, 3, 4	NR	1, 2, 3, 4	NR	NR	NR	NR
716C	0	0	0	0	NR	NR	NR	NR
716C-SM	0	0	0	0	NR	NR	NR	NR
718C	0	0	0	0	NR	NR	NR	NR
718C-SM	NR	1, 2, 3, 4	NR	1, 2, 3, 4	NR	NR	NR	NR
615 BPU	0	0	0	0	0	0	0	0
625R & F	0	0	0	0	0	0	0	0
630R & F	0	0	0	0	0	0	0	0
635F	0	0	0	0	NR	1, 2, 3, 4	2, 3, 4	1
725D	0	0	0	0	NR	1, 2, 3, 4	2, 3, 4	1
730D	0	0	0	0	NR	NR	NR	2, 3, 4
735D	0	0	0	0	NR	NR	NR	NR
740D	0	0	0	0	NR	NR	NR	NR
630FD	0	0	0	0	NR	2, 3, 4	NR	1, 2, 3, 4
635FD	0	0	0	0	NR	NR	NR	2, 3, 4
640FD	0	0	0	0	NR	NR	NR	NR
645FD	0	0	0	0	NR	NR	NR	NR

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
C = Corn Head
C-SM = Corn Head with StalkMaster™
FC = Folding Corn Head
FC-SM = Folding Corn Head with StalkMaster™

0 = No ballast required for any rear tire option.
1 = 620/75R26 (23.1R26 or 620/70R26) rear tires.
2 = 750/65R26 rear tires.
3 = 710/65R26 rear tires.
4 = 710/60R30 rear tires.
NR = Not recommended since machine with header cannot be properly ballasted.

StalkMaster is a trademark of Deere & Company

AS09261,00001B6 -19-18MAY17-1/1

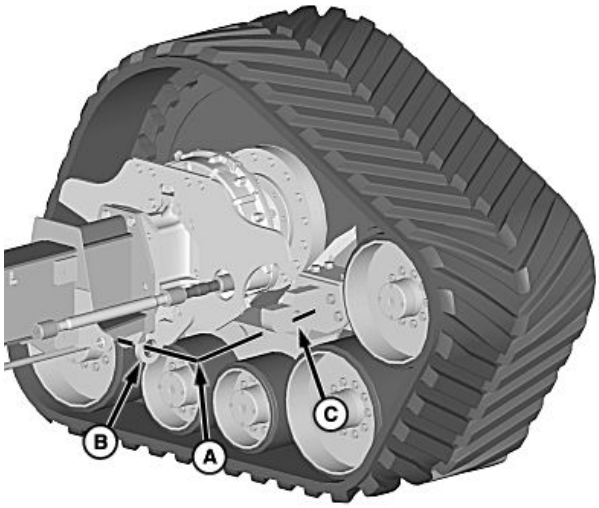
Track Module Tow Hook Locations

CAUTION: Use adequate towing cables to tow machine. If towing cables break, the whipping action could cause bodily injury.

IMPORTANT: DO NOT tow directly from cable guide. Tow cable MUST be routed through cable guide and connected to track module bracket.

NOTE: A tow cable guide is provided to help to facilitate movement of a stuck vehicle. This is designed to help raise the rear of the track module as tension is applied to the tow cable.

Route tow cable (A) from rear of machine through cable guide (B) and connect to track module bracket (C) as shown.



H107840 —UN—21MAY13

Tow Cable Routing Viewed from Inside Track

A—Tow Cable
B—Cable Guide
C—Track Module Bracket

OUO6075,00014F6 -19-04JUN13-1/1

Towing Machine (ProDrive™ Transmission Machines)

NOTE: For S770, S780, and S790 machines, see Transmission Application Help or Operator's Station Help for further information.

CAUTION: Do not tow machine with wire rope. If rope breaks, the whipping action could cause bodily injury.

Do not remove couplers. When couplers are removed, brakes are disabled.

Avoid electrical line entanglement. Grain extensions or grain tank covers must be lowered and radio antenna lowered before transporting.

Check local governmental regulations regarding driving or towing equipment on public roads. Use auxiliary lights and devices available from your John Deere dealer to warn other roadway users.

Avoid crushing injuries from the runaway machine. If machine is on a slope, do not disengage parking brake until wheels are blocked.

Releasing parking brake lock must be carried out ONLY for towing purposes. NEVER operate machine with the park brake mechanically released. ALWAYS set parking brake lock back to its initial status when towing is no longer required.

Machine can be towed for emergency situations up to 10 minutes at maximum speed of 10 km/h (6.2 mph).

NOTE: Engine must be running to tow machine. If engine is inoperable, see your John Deere dealer for further information.

To tow machine with ProDrive™ transmission, proceed as follows:

- Start engine.
- Empty grain tank and remove header.
- Swing unloading auger back.
- Fold grain tank extensions or grain tank covers.
- Swing ladder forward and fold down radio antenna.
- Tow machine in a forward direction by attaching a chain around the main axle. Be certain chain does not damage any hydraulic lines. Have driver in the operator's seat to steer machine.
- Turn warning lights ON, unless prohibited by law.

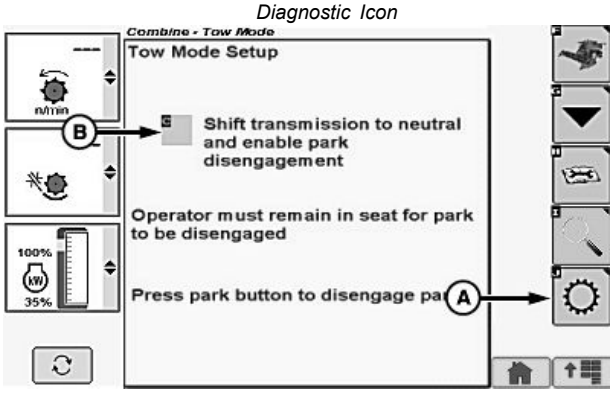
CAUTION: Prevent collisions between the other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use hand signals or turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for the equipment lighting and marking. Keep lighting and marking visible and in good working order. Replace or repair lighting and marking that are damaged or lost.

ProDrive is a trademark of Deere & Company

H94478 —UN—31MAR10

Diagnostic Icon



H112865 —UN—09FEB15

Touch or press confirm switch when the diagnostic icon is highlighted.

Touch or press confirm switch when the tow mode setup icon (A) is highlighted.

Touch or press confirm switch when box is highlighted.

- Shift transmission to neutral and enable park brake disengaged Box (B) - shifts machine to neutral position and enables park brake disengage.

NOTE: Operator must remain in seat for the park brake to be disengaged.

Press the park brake switch on the armrest to release brakes before towing machine.

AS09261,00001B7 -19-15FEB17-1/1

Fire Prevention

Recommended Fire Preventions

The machine must be inspected periodically throughout the harvest day. Buildup of crop material and other debris must be removed to ensure proper machine function and to reduce the risk of fire.

Regular and thorough cleaning of machine combined with other routine maintenance procedures listed in the Operator's Manual greatly reduces the risk of fire, chance of costly downtime, and improve machine performance.

Always follow all safety procedures posted on the machine and in the Operator's Manual. Before carrying out any inspection or cleaning, always shut OFF engine, set park brake, and remove key.

Your machine is equipped with a general-purpose fire extinguisher and a pressurized water fire extinguisher. Extinguishers must be checked daily when entering or exiting the cab and when working around machine to ensure that they are in working condition. Fire extinguishers must be replaced or professionally serviced after any usage.

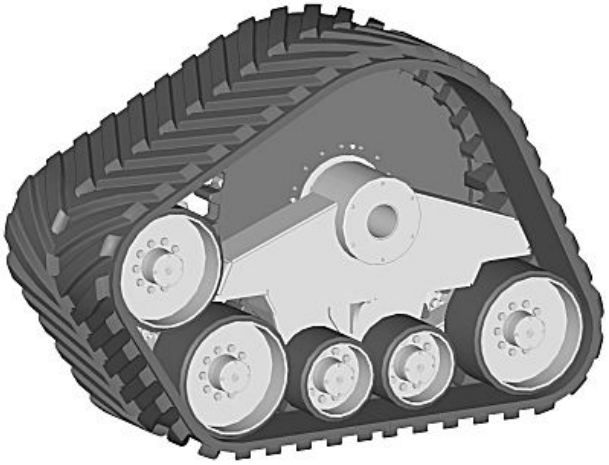
OUO6075,00014BF -19-18SEP13-1/1

Cleaning Tracks

IMPORTANT: Tracks must be cleaned immediately after operation in wet and muddy conditions.

Always keep drive wheel and mainframe clear of dirt and debris.

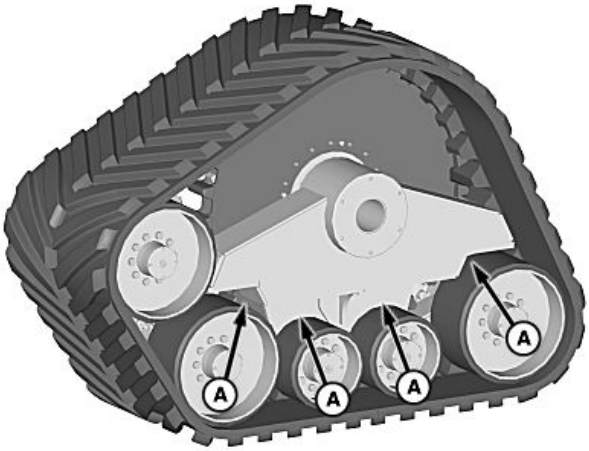
Mainframe and wheel areas must be cleaned periodically to prevent buildup of dirt and debris. Buildup can cause premature wear on rubber track belt, bogie wheels, and idler wheels.



H107918 —UN—21MAY13

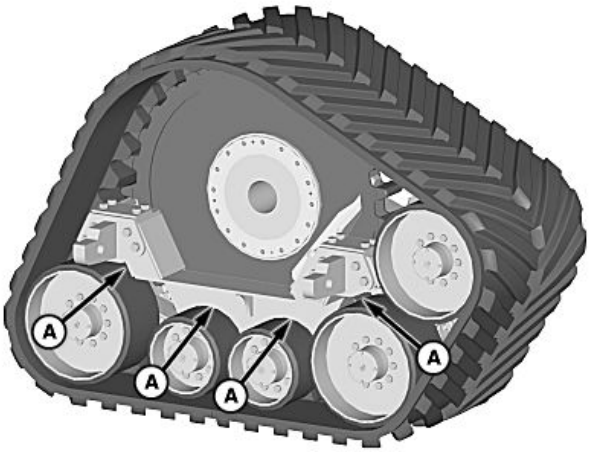
OUO6075,00014C0 -19-05JUN13-1/1

Track Cleanout Areas



H107574 —UN—21MAY13

Outside View



H107575 —UN—21MAY13

Inside View

A—Mainframe and Wheel Areas

Mainframe and wheel areas (A) must be cleaned periodically to prevent buildup of dirt and debris. Buildup can cause premature wear on rubber track belt, bogie wheels, and idler wheels.

OUO6075,00014C1 -19-05JUN13-1/1

Service Interval Chart

	Service Intervals		
Service	**Daily**	**400 Hours or Annually**	**5000 Hours [a]**
Clean Dirt and Debris From Drive Wheels	X		
Clean Dirt and Debris From Mainframe	X		
Check Bogie Wheels Oil Level		X	
Check Idler Wheels Oil Level		X	
Change Bogie Wheels Oil			X
Change Idler Wheels Oil			X

[a] *If machine is operated in areas with highly varying temperatures, oil must be changed more often due to condensation.*

IMPORTANT: Service times are for average conditions. Service more often if machine is used in extreme conditions.

OUO6075,00014C4 -19-03DEC13-1/1

Belt Care and Conditioning Break-In

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: The following break-in procedure is for a modular track system after installation of a new track system, or installation of a new track belt. Prior to operating machine, talc must be applied to drive lugs of rubber track belt to aid in proper belt conditioning.

Pour one cup of talc to front and rear drive wheel areas (A) as shown.

Move machine forward or in reverse to spread talc over drive lug teeth.

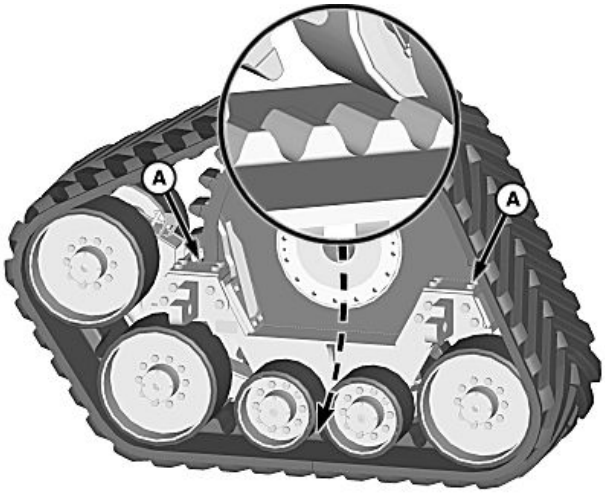
Verify that guide/drive lugs have talc on all surfaces.

Always expose new or clean track to dry and dusty soil conditions as soon as possible.

Run machine for approximately ten hours after installation.

Check hydraulic pressure on track tensioning system and adjust as needed.

Check track module hardware torque and retighten as needed.

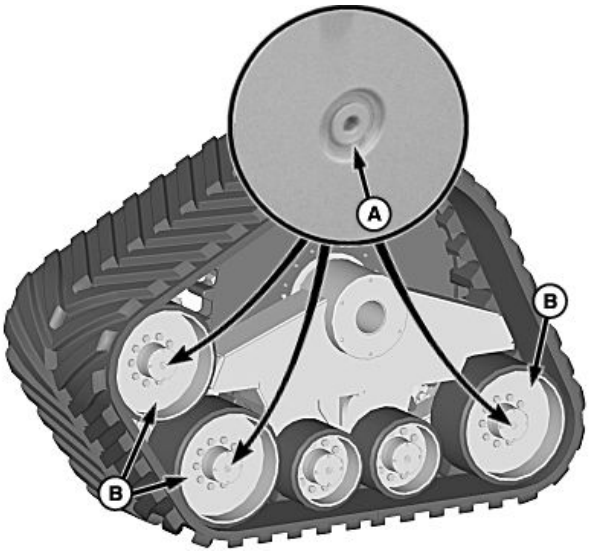


H107637 —UN—21MAY13

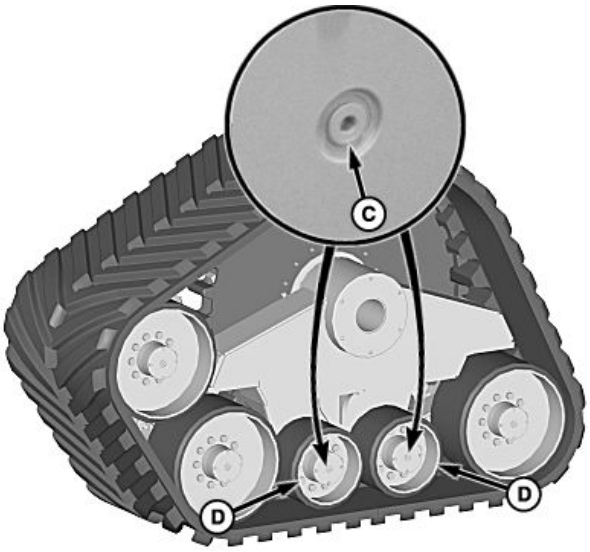
A—Front and Rear Drive Wheel Areas

OUO6075,00014D6 -19-03DEC13-1/1

Every 400 Hours



H107808 —UN—21MAY13



H107809 —UN—21MAY13

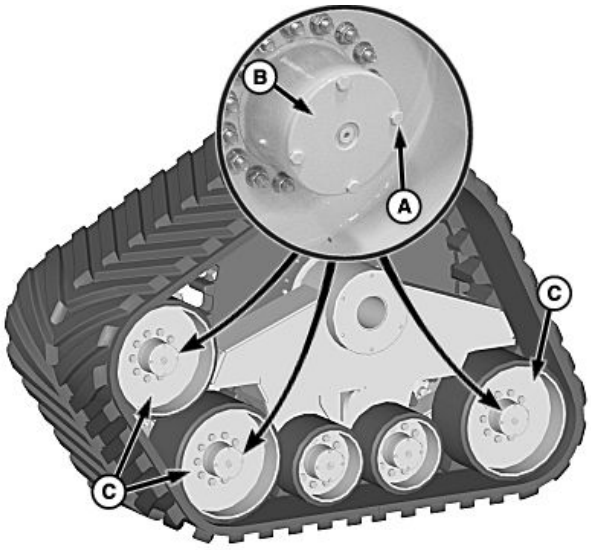
A—Plug (6 used)
B—Idler Hubs (6 used)
C—Plugs (4 used)
D—Bogie Hubs (4 used)

Remove plug (A) from idler hubs (B) and verify that oil level is at bottom of hole opening. Add oil as required.

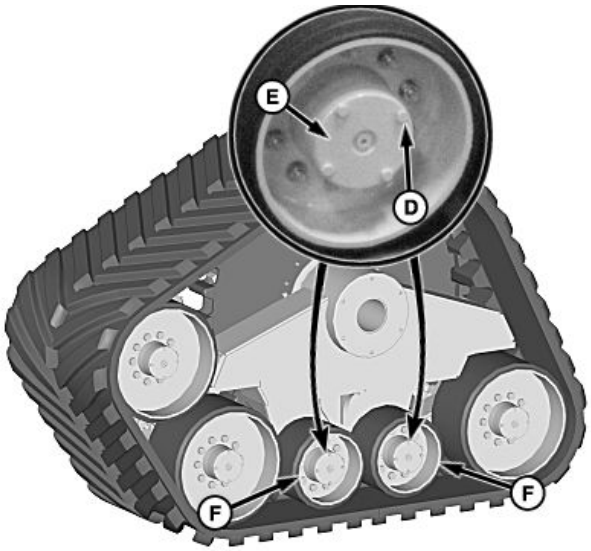
Remove plug (C) from bogie hubs (D) and verify that oil level is at bottom of hole opening. Add oil as required.

OUO6075,00014D7 -19-05JUN13-1/1

Every 5000 Hours



H107810 —UN—21MAY13



H107812 —UN—21MAY13

A—Cap Screws
B—Covers (6 used)
C—Idler Hubs (6 used)
D—Cap Screws
E—Covers (4 used)
F—Bogie Hubs (4 used)

NOTE: If machine is operated in areas with highly varying temperatures, oil must be changed more often due to condensation.

Remove cap screws (A) and covers (B) from idler hubs (C) to drain oil.

Install covers and retain with cap screws.

Remove plugs from idler hubs and fill to specification using 15W-40 motor oil.

Specification

Idler Hubs—Capacity ..... 325 mL (11 oz.)

Install plugs and tighten to specification.

Specification

Plugs—Torque ..... 61 N·m (45 lb.-ft.)

Remove cap screws (D) and covers (E) from bogie hubs (F) to drain oil.

Install covers and retain with cap screws.

Remove plugs from bogie hubs and fill to specification using 15W-40 motor oil.

Specification

Bogie Hubs—Capacity ..... 325 mL (11 oz.)

Install plugs and tighten to specification.

Specification

Plugs—Torque ..... 61 N·m (45 lb.-ft.)

OUO6075,00014C2 -19-03DEC13-1/1

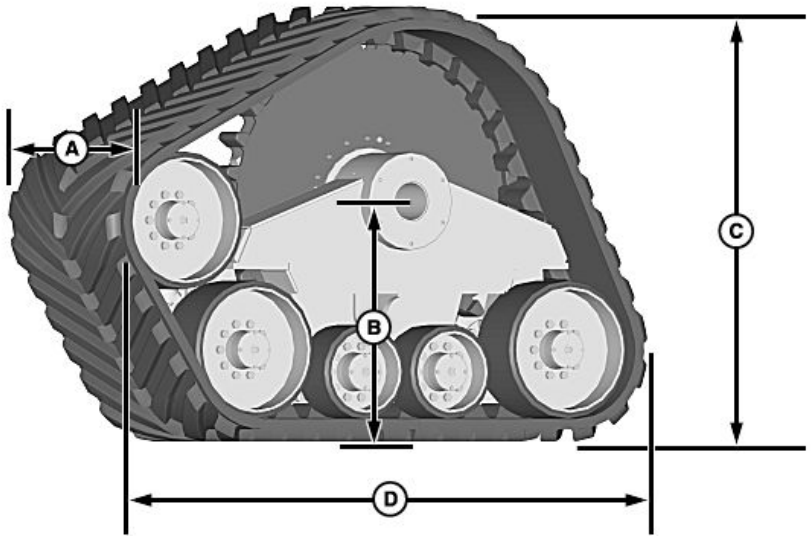
Specifications

Track Specifications	
Load Capacity	17,045 kg (37,584 lb.)
Weight	2,835 kg (6,250 lb.)
Rolling Circumference	4,521 mm (178 in.)

Capacities	
Idler Hubs	325 mL (11 oz.)
Bogie Hubs	325 mL (11 oz.)
Oil Type	15W-40 Motor Oil

OUO6075,00014C8 -19-18SEP13-1/1

Track Module Dimensions



H107616 —UN—21MAY13

Legend	Dimension
A	914 mm (36 in.)
B	940 mm (37 in.)
C	1701 mm (67 in.)
D	2540 mm (100 in.)

OUO6075,00014EE -19-05JUN13-1/1

Combine Dimensions

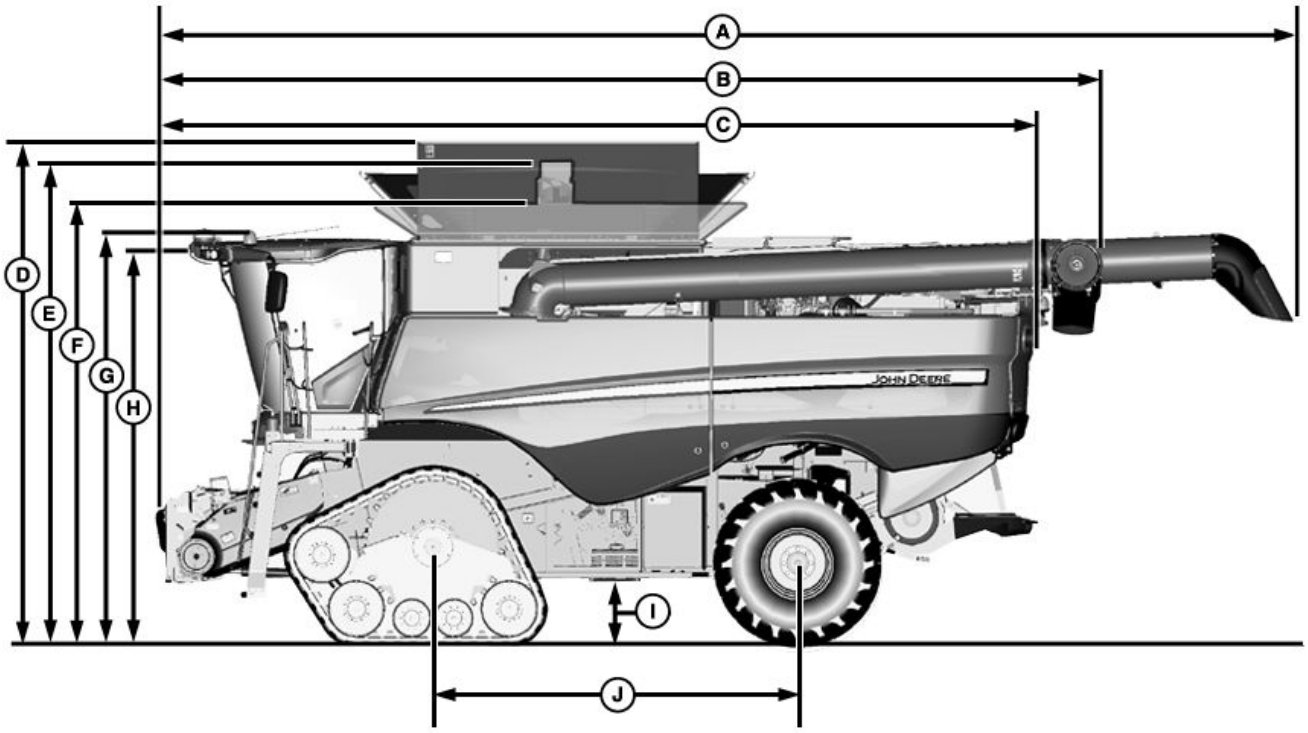
NOTE: Dimensions are approximate and subject to change without notice.

Legend	Dimension
A	11.01 m (36 ft. 1 in.) 6.9 m (22 ft. 5 in.) Unloading Auger 11.01 m (36 ft. 1 in.) 6.9 m (22 ft. 5 in.) Power Fold Unloading Auger 12.11 m (39 ft. 7 in.) 7.9 m (26 ft. 0 in.) Unloading Auger
B	9.10 m (29 ft. 9 in.) 6.9 m (22 ft. 5 in.) Power Fold Unloading Auger
C	8.51 m (27 ft. 9 in.)
D	4.90 m (16 ft. 1 in.) 10 572 L (300 bu.) Covers 4.90 m (16 ft. 1 in.) 14 096 L (400 bu.) Covers
E	4.76 m (15 ft. 6 in.) Clean Grain Loading Auger
F	4.28 m (14 ft. 1 in.) 10 572 L (300 bu.) Extensions 4.54 m (14 ft. 9 in.) 14 096 L (400 bu.) Extensions
G	4.03 m (13 ft. 2 in.)
H	3.92 m (12 ft. 9 in.)
I	0.69 m (2 ft. 3 in.)
J	3.52 m (11 ft. 6 in.)
K	8.03 m (26 ft. 4 in.) 6.9 m (22 ft. 5 in.) Unloading Auger 9.13 m (29 ft. 10 in.) 7.9 m (26 ft. 0 in.) Unloading Auger
L	5.02 m (16 ft. 5 in.) 6.9 m (22 ft. 5 in.) Unloading Auger 5.25 m (17 ft. 2 in.) 7.9 m (26 ft. 0 in.) Unloading Auger
M	4.29 m (14 ft. 1 in.) 6.9 m (22 ft. 5 in.) Unloading Auger 4.52 (14 ft. 8 in.) 7.9 m (26 ft. 0 in.) Unloading Auger
N [a]	4.18 m (13 ft. 7 in.) 6.9 m (22 ft. 5 in.) Unloading Auger 4.36 m (14 ft. 3 in.) 7.9 m (26 ft. 0 in.) Unloading Auger
O [b]	3.19 m (10 ft. 5 in.) Rear Tires
P [b]	4.62 m (15 ft. 2 in.) 300 mm (12 in.) Axle Extensions 4.82 m (15 ft. 8 in.) 400 mm (16 in.) Axle Extensions Front Tracks

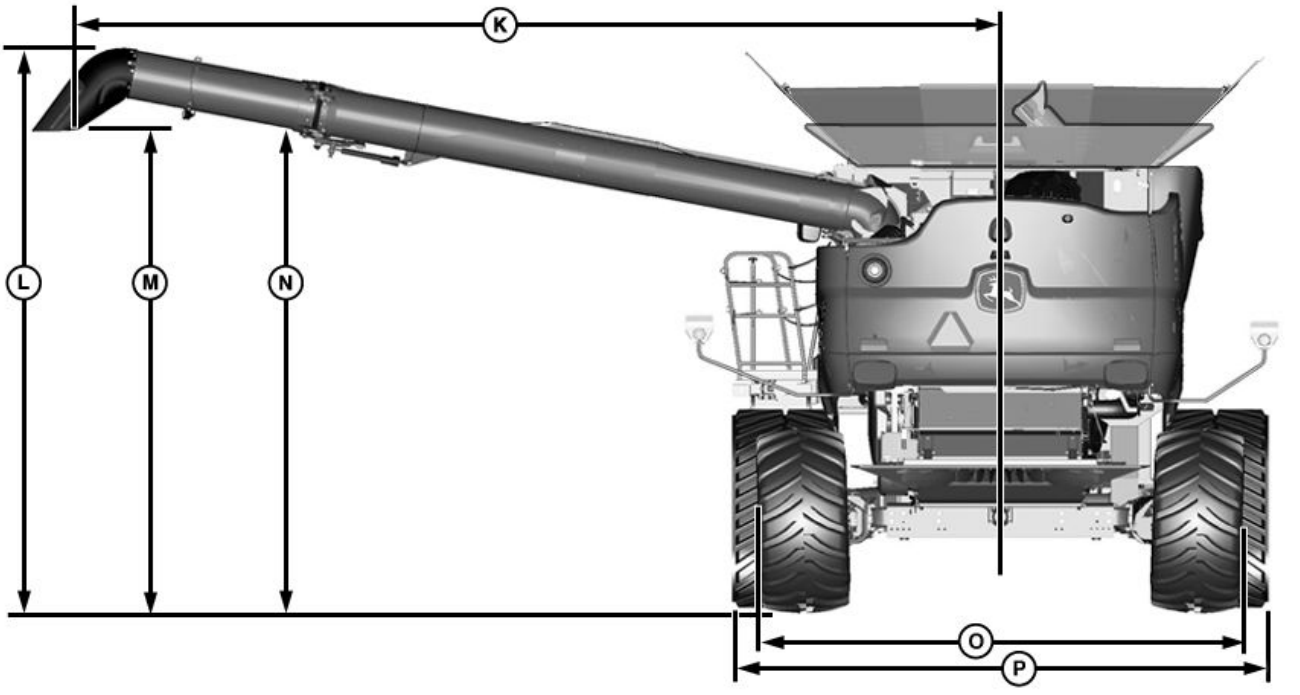
[a] *Dimension is measured 1.22 m (4 ft.) from the grain spill point. This represents the unloading auger when centered over the grain cart.*
[b] *Due to different tire configurations, row spacings, axle configurations, wheel offsets, axle positions and spindles types, machine widths will vary. Measurements given in chart are for minimum and maximum widths. For more detailed width information, see your John Deere dealer.*

OUO6075,00014ED -19-03DEC13-1/1

Dimension Reference Points



H107813 —UN—13MAY13

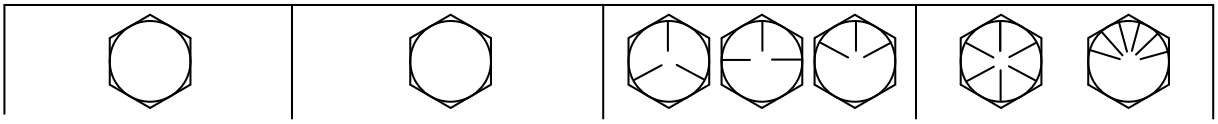


H107814 —UN—13MAY13

OUO6075,00014EF -19-05JUN13-1/1

Unified Inch Bolt and Screw Torque Values

TS1671 —UN—01MAY03



Bolt or Screw Size	SAE Grade 1				SAE Grade 2[a]				SAE Grade 5, 5.1 or 5.2				SAE Grade 8 or 8.2			
	Lubricated[b]		Dry[c]		Lubricated[b]		Dry[c]		Lubricated[b]		Dry[c]		Lubricated[b]		Dry[c]	
	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.
1/4	3.7	33	4.7	42	6	53	7.5	66	9.5	84	12	106	13.5	120	17	150
													N·m	lb.-ft.	N·m	lb.-ft.
5/16	7.7	68	9.8	86	12	106	15.5	137	19.5	172	25	221	28	20.5	35	26
									N·m	lb.-ft.	N·m	lb.-ft.				
3/8	13.5	120	17.5	155	22	194	27	240	35	26	44	32.5	49	36	63	46
			N·m	lb.-ft.	N·m	lb.-ft.	N·m	lb.-ft.								
7/16	22	194	28	20.5	35	26	44	32.5	56	41	70	52	80	59	100	74
	N·m	lb.-ft.														
1/2	34	25	42	31	53	39	67	49	85	63	110	80	120	88	155	115
9/16	48	35.5	60	45	76	56	95	70	125	92	155	115	175	130	220	165
5/8	67	49	85	63	105	77	135	100	170	125	215	160	240	175	305	225
3/4	120	88	150	110	190	140	240	175	300	220	380	280	425	315	540	400
7/8	190	140	240	175	190	140	240	175	490	360	615	455	690	510	870	640
1	285	210	360	265	285	210	360	265	730	540	920	680	1030	760	1300	960
1-1/8	400	300	510	375	400	300	510	375	910	670	1150	850	1450	1075	1850	1350
1-1/4	570	420	725	535	570	420	725	535	1280	945	1630	1200	2050	1500	2600	1920
1-3/8	750	550	950	700	750	550	950	700	1700	1250	2140	1580	2700	2000	3400	2500
1-1/2	990	730	1250	930	990	730	1250	930	2250	1650	2850	2100	3600	2650	4550	3350

Torque values listed are for general use only, based on the strength of the bolt or screw. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For plastic insert or crimped steel type lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application. Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Replace fasteners with the same or higher grade. If higher grade fasteners are used, tighten these to the strength of the original. Make sure fastener threads are clean and that you properly start thread engagement. When possible, lubricate plain or zinc plated fasteners other than lock nuts, wheel bolts or wheel nuts, unless different instructions are given for the specific application.

[a] Grade 2 applies for hex cap screws (not hex bolts) up to 6 in. (152 mm) long. Grade 1 applies for hex cap screws over 6 in. (152 mm) long, and for all other types of bolts and screws of any length.

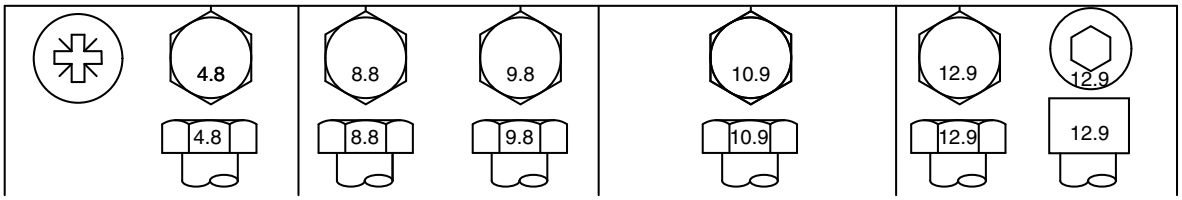
[b] "Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or 7/8 in. and larger fasteners with JDM F13C, F13F or F13J zinc flake coating.

[c] "Dry" means plain or zinc plated without any lubrication, or 1/4 to 3/4 in. fasteners with JDM F13B, F13E or F13H zinc flake coating.

DX,TORQ1 -19-12JAN11-1/1

Metric Bolt and Screw Torque Values

TS1670 —UN—01MAY03



Bolt or Screw Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated[a]		Dry[b]		Lubricated[a]		Dry[b]		Lubricated[a]		Dry[b]		Lubricated[a]		Dry[b]	
	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.	N·m	lb.-in.
M6	4.7	42	6	53	8.9	79	11.3	100	13	115	16.5	146	15.5	137	19.5	172
									N·m	lb.-ft.	N·m	lb.-ft.	N·m	lb.-ft.	N·m	lb.-ft.
M8	11.5	102	14.5	128	22	194	27.5	243	32	23.5	40	29.5	37	27.5	47	35
			N·m	lb.-ft.	N·m	lb.-ft.	N·m	lb.-ft.								
M10	23	204	29	21	43	32	55	40	63	46	80	59	75	55	95	70
	N·m	lb.-ft.														
M12	40	29.5	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	46	80	59	120	88	150	110	175	130	220	165	205	150	260	190
M16	100	74	125	92	190	140	240	175	275	200	350	255	320	235	400	300
M18	135	100	170	125	265	195	330	245	375	275	475	350	440	325	560	410
M20	190	140	245	180	375	275	475	350	530	390	675	500	625	460	790	580
M22	265	195	330	245	510	375	650	480	725	535	920	680	850	625	1080	800
M24	330	245	425	315	650	480	820	600	920	680	1150	850	1080	800	1350	1000
M27	490	360	625	460	950	700	1200	885	1350	1000	1700	1250	1580	1160	2000	1475
M30	660	490	850	625	1290	950	1630	1200	1850	1350	2300	1700	2140	1580	2700	2000
M33	900	665	1150	850	1750	1300	2200	1625	2500	1850	3150	2325	2900	2150	3700	2730
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2770	4750	3500

Torque values listed are for general use only, based on the strength of the bolt or screw. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For stainless steel fasteners or for nuts on U-bolts, see the tightening instructions for the specific application. Tighten plastic insert or crimped steel type lock nuts by turning the nut to the dry torque shown in the chart, unless different instructions are given for the specific application.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class. Replace fasteners with the same or higher property class. If higher property class fasteners are used, tighten these to the strength of the original. Make sure fastener threads are clean and that you properly start thread engagement. When possible, lubricate plain or zinc plated fasteners other than lock nuts, wheel bolts or wheel nuts, unless different instructions are given for the specific application.

[a] "Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or M20 and larger fasteners with JDM F13C, F13F or F13J zinc flake coating.

[b] "Dry" means plain or zinc plated without any lubrication, or M6 to M18 fasteners with JDM F13B, F13E or F13H zinc flake coating.

DX,TORQ2 -19-12JAN11-1/1

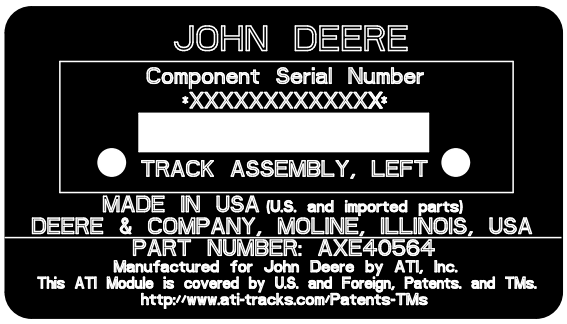
Machine Identification Numbers

Identification Numbers

Your machine has these various identification plates. The letters and numbers stamped on these plates identify a component or assembly. ALL of these characters are needed when ordering parts or identifying a machine or component for any John Deere product support program. Also, they are needed for law enforcement to trace your machine if it is ever stolen. ACCURATELY record these characters in the spaces provided in each of the following photographs.

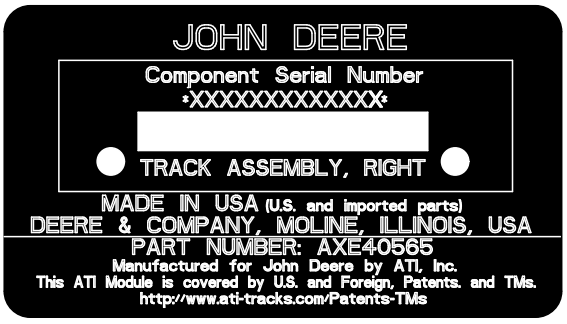
OUO6075,00014F7 -19-05JUN13-1/1

Identification Plates



H108423 —UN—01JUL13

Sample Identification Plate (Left-Hand Track)



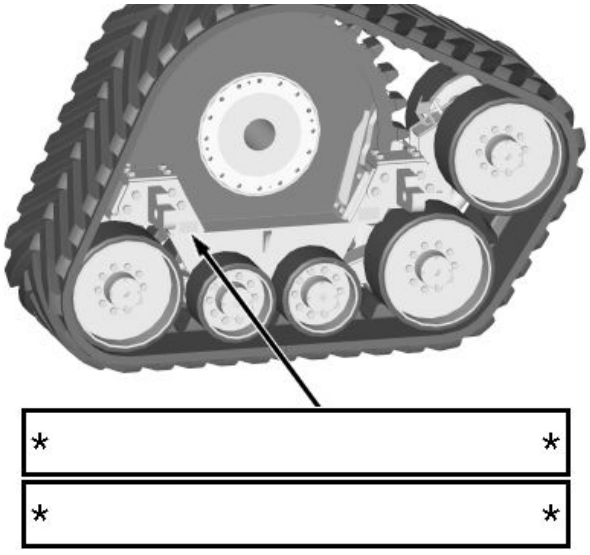
H108424 —UN—01JUL13

Sample Identification Plate (Right-Hand Track)

OUO6075,00015A5 -19-27JUN13-1/1

Identification Plate Location

Located on inside of each track module.



H107930 —UN—22MAY13

OUO6075,00015A6 -19-27JUN13-1/1

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John Deere Service Literature Available

Technical Information

Technical information can be purchased from John Deere. Publications are available in print or CD-ROM format.

Orders can be made using one of the following:

- John Deere Technical Information Store: **www.JohnDeere.com/TechInfoStore**
- Call 1-800-522-7448
- Contact your John Deere dealer

Available information includes:

PARTS CATALOGS list service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.

TS189 —UN—17JAN89

DX,SERVLIT -19-07DEC16-1/4

OPERATOR'S MANUALS providing safety, operating, maintenance, and service information.

TS191 —UN—02DEC88

DX,SERVLIT -19-07DEC16-2/4

TECHNICAL MANUALS outlining service information for your machine. Included are specifications, illustrated assembly and disassembly procedures, hydraulic oil flow diagrams, and wiring diagrams. Some products have separate manuals for repair and diagnostic information. Some components, such as engines, are available in a separate component technical manual.

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DX,SERVLIT -19-07DEC16-3/4

EDUCATIONAL CURRICULUM including five comprehensive series of books detailing basic information regardless of manufacturer:

- Agricultural Primer series covers technology in farming and ranching.
- Farm Business Management series examines “real-world” problems and offers practical solutions in the areas of marketing, financing, equipment selection, and compliance.
- Fundamentals of Services manuals show you how to repair and maintain off-road equipment.
- Fundamentals of Machine Operation manuals explain machine capacities and adjustments, how to improve machine performance, and how to eliminate unnecessary field operations.
- Fundamentals of Compact Equipment manuals provide instruction in servicing and maintaining equipment up to 40 PTO horsepower.

TS1663 —UN—10OCT97

DX,SERVLIT -19-07DEC16-4/4

John Deere Service Keeps You On The Job

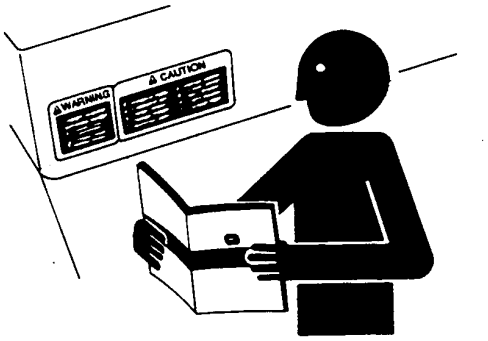
John Deere Is At Your Service

CUSTOMER SATISFACTION is important to John Deere.

Our dealers strive to provide you with prompt, efficient parts and service:

–Maintenance and service parts to support your equipment.

–Trained service technicians and the necessary diagnostic and repair tools to service your equipment.



TS201 —UN—15APR13

CUSTOMER SATISFACTION PROBLEM RESOLUTION PROCESS

Your John Deere dealer is dedicated to supporting your equipment and resolving any problem you may experience.

1. When contacting your dealer, be prepared with the following information:

–Machine model and product identification number

–Date of purchase

–Nature of problem

2. Discuss problem with dealer service manager.

3. If unable to resolve, explain problem to dealership manager and request assistance.

4. If you have a persistent problem your dealership is unable to resolve, ask your dealer to contact John Deere for assistance. Or contact the Ag Customer Assistance Center at 1-866-99DEERE (866-993-3373) or e-mail us at www.deere.com/en_US/ag/contactus/.

DX,IBC,2 -19-02APR02-1/1