

John Deere Tracks



JOHN DEERE

OPERATOR'S MANUAL

John Deere Tracks

OMHXE133455 ISSUE D9 (ENGLISH)

John Deere Harvester Works

Export 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.

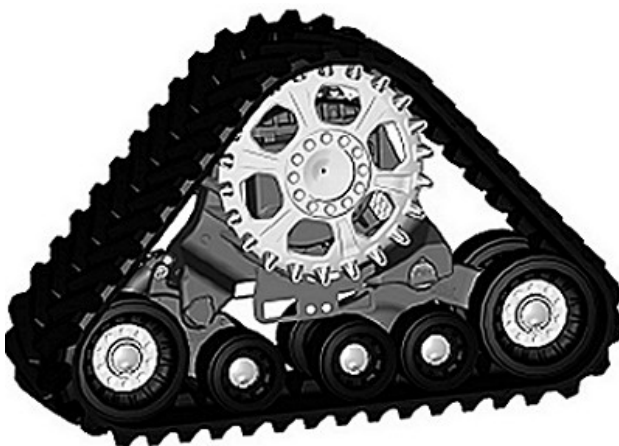
WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate or statement which you should have received from your dealer.

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

Machine Photo



H122227—UN—10AUG17
OUO6041,0000C1B-19-25AUG17

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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.

Safety

Recognize Safety Information



T81389—UN—28JUN13

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.

DX,ALERT-19-29SEP98

Understand Signal Words



⚠ WARNING

⚠ CAUTION

TS187—19—30SEP88

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.

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

Follow Safety Instructions



TS201—UN—15APR13

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.

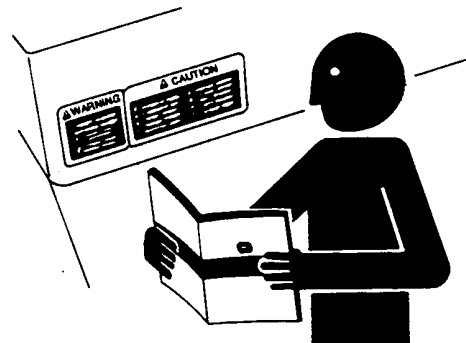
Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

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

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

DX,READ-19-16JUN09

French and Spanish Safety Signs and Operator's Manual



TS201—UN—15APR13

French and 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.

OUO6075,0004A7E-19-12DEC18

Replace Safety Signs



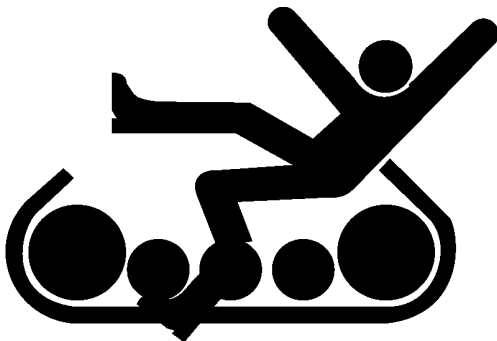
TS201—UN—15APR13

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.

DX,SIGNS-19-18AUG09

Safe Track Operating Practices



H48148—UN—12DEC96

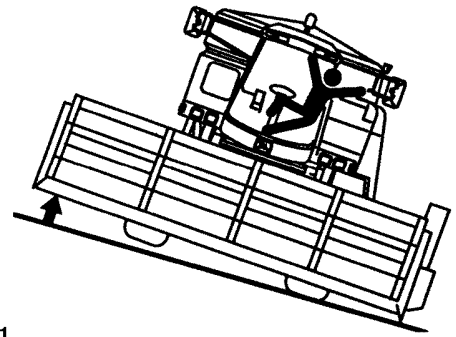
DO NOT stand near tracks when machine is running.

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.

OUC6075,00014B9-19-03DEC13

Driving the Machine



ZX002461

ZX002461—UN—16JUN95

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.

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.

OUC6075,0000AB7-19-21FEB07

Keep Riders and Children Off Machine



TS253—UN—23AUG88

Only allow the operator on the machine. Keep riders off

the machine except for periods of training or short periods of observation.

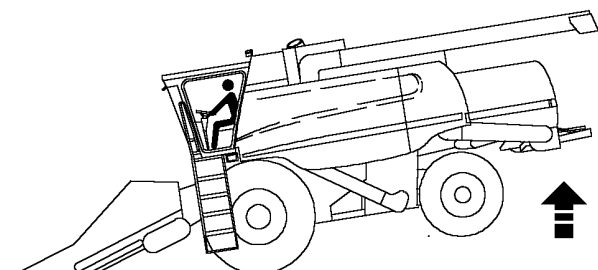
Riders are subject to injury such as being thrown off the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.

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.

HX,AG,SF6904-19-22JUL99

Ballasting for Safe Ground Contact



H51907—UN—10FEB99

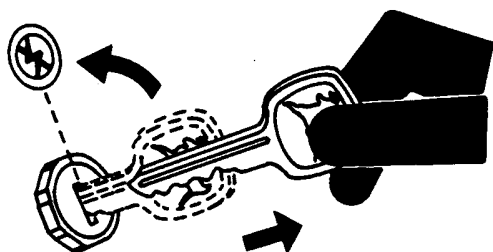
Operating, steering and braking performance of combine can be considerably affected by heavy front end attachments which alter the center of gravity of the combine.

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

Observe the maximum permissible axle loads and total weights.

HX,AG,SF6782-19-05FEB99

Parking and Leaving the Machine



TS230—UN—24MAY89

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.

OOU6075,0000AEB-19-11FEB14

Work In Ventilated Area



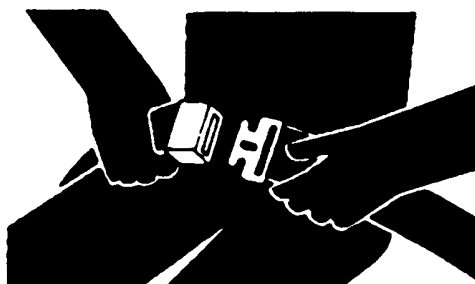
TS220—UN—15APR13

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.

DX,AIR-19-17FEB99

Use Seat Belts



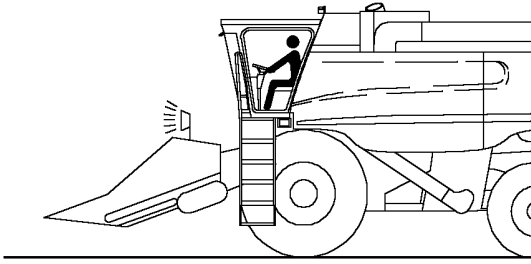
H47137

H47137—UN—25OCT95

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

HX,STSSA,I-19-22JUL99

Transport Combine With Header Safely



H51909—UN—07MAY99

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.

OUO6075,0000034-19-22JAN01

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.

DX,SERV-19-28FEB17

Practice Safe Maintenance



TS218—UN—23AUG88

Avoid Contact With Moving Parts

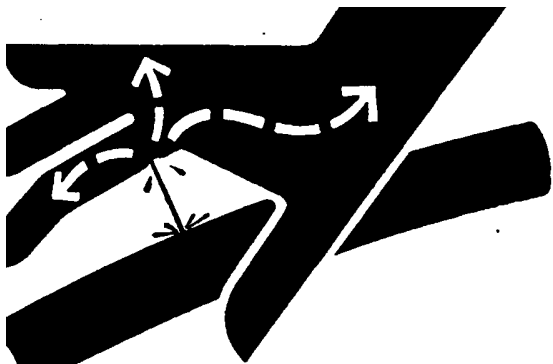


TS256—UN—23AUG88

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

H01,9000SA,E-19-15JUN90

Avoid High-Pressure Fluids



X9811—UN—23AUG88

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.

DX,FLUID-19-12OCT11

Service Accumulator Systems Safely



TS281—UN—15APR13

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.

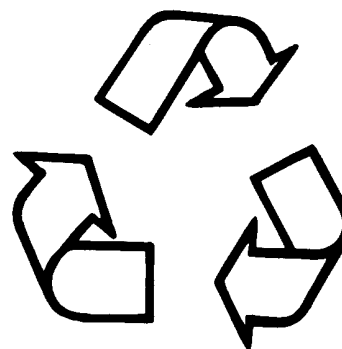
Relieve pressure from the pressurized system before removing accumulator.

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.

DX,WW,ACCLA2-19-22AUG03

Decommissioning — Proper Recycling and Disposal of Fluids and Components



TS1133—UN—15APR13

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

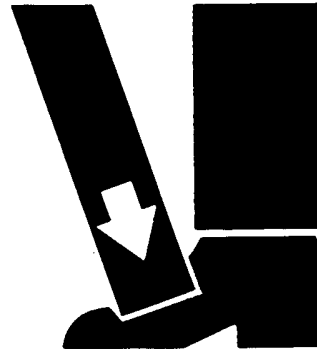
- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.
- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting 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); 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

Use Proper Lifting Equipment



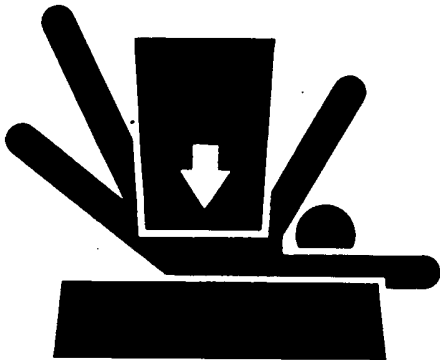
TS226—UN—23AUG88

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

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

DX,LIFT-19-04JUN90

Support Machine Properly



TS229—UN—23AUG88

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.

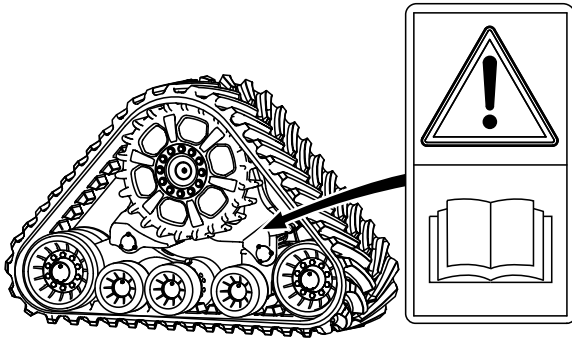
Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

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

DX,LOWER-19-24FEB00

Safety Signs

Operator's Manual



H122407—UN—03OCT17

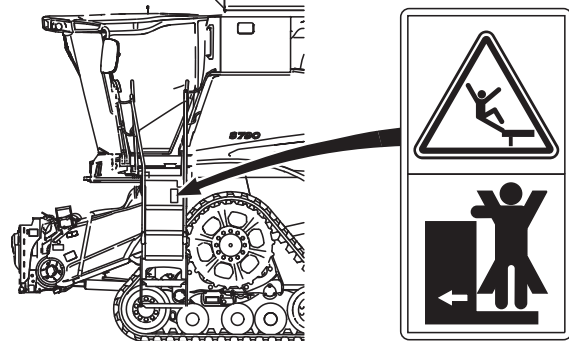
This operator's manual contains all important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.

OOU6041,0000CE6-19-13NOV17

Always swing ladder to forward locked position before driving machine on roadway.

OOU6041,0000CE4-19-13NOV17

Cab/Platform Access Ladder

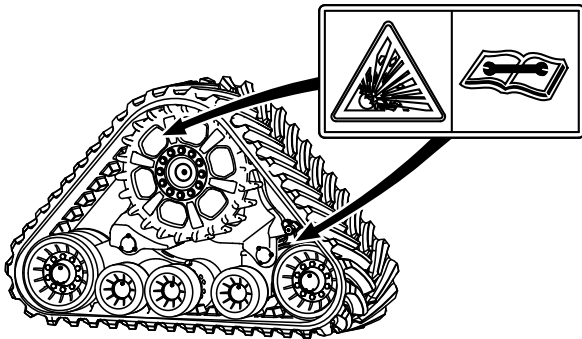


H122443—UN—10OCT17

Avoid serious injury from falling. Do not allow riders on the ladder or platform area while machine is moving.

OOU6041,0000CE3-19-13NOV17

Accumulator

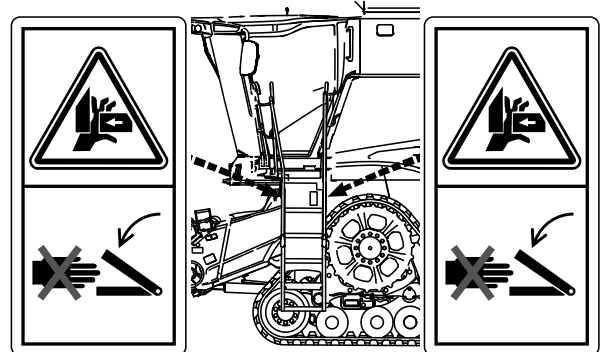


H122408—UN—03OCT17

To avoid injury from machine movement and exposure to fluid under pressure, see dealer for instruction on relieving pressure before servicing hydraulic system.

OOU6041,0000CE5-19-13NOV17

Cab/Platform Access Ladder

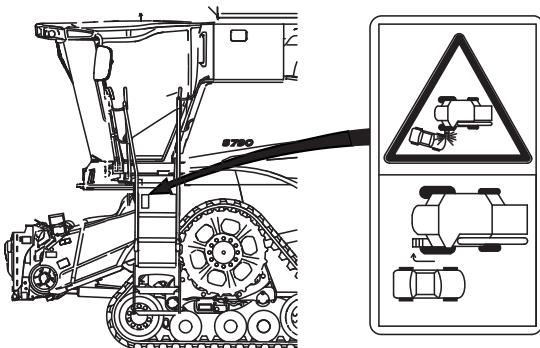


H125749—UN—19MAR19

To avoid injury from crushing, keep hands and fingers away from this area.

OOU6075,0004AC6-19-07MAR19

Avoid Motor Vehicle Collisions

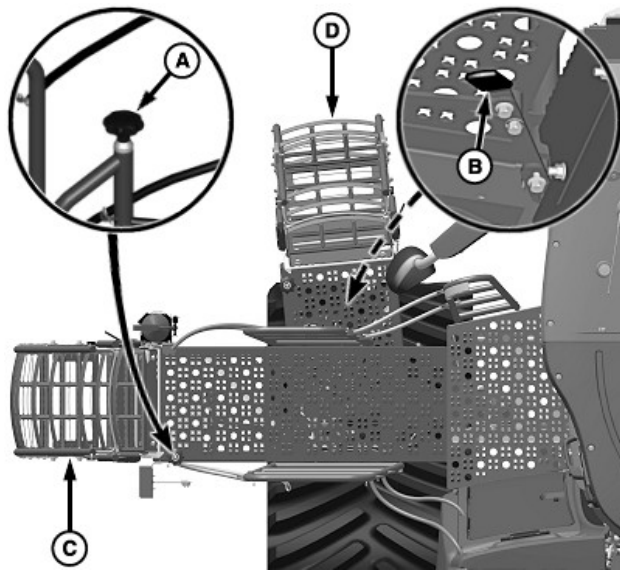


H122409—UN—10OCT17

Avoid motor vehicle collision and serious injury or death.

Operator's Station

Cab Ladder Positions



H124944—UN—30AUG18

- A—Handle
B—Lever
C—Position (Field)
D—Position (Roadway Driving)

CAUTION: Avoid injury or death. Do not ride or attempt to climb front or rear ladders while machine is moving.

Ladder can be positioned from ground or from the ladder landing using handle (A) or lever (B).

If the ladder latch appears loose, clean out latch pin area. Do not use oil or grease in this area.

Swing ladder forward or rearward and lock into these different positions:

- **Position (C):** For the normal operating field conditions.
- **Position (D):** For transporting the machine on public roadways.

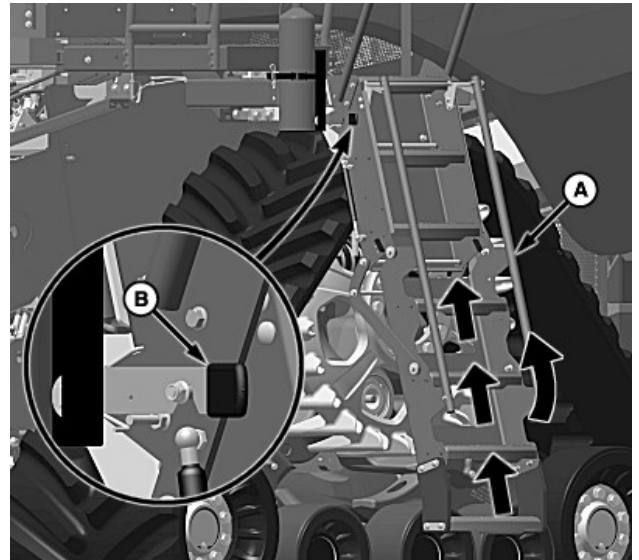
CAUTION: Avoid damage to cab ladder. Always place ladder in the folded position (up position) and swing ladder to position (C) for normal operating field conditions.

Avoid accidents. Always place ladder in the folded position (up position) and swing ladder to position (D) before transporting on public roadways to reduce machine width and to position marker/hazard light towards oncoming motorists.

OUC6075,0004AC5-19-07MAR19

Cab Ladder Positions (Fold/Unfold from Ground)

Fold Ladder



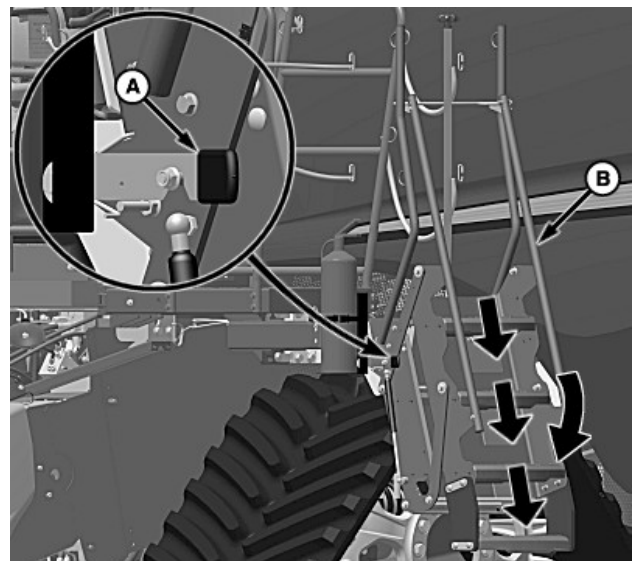
H124945—UN—30AUG18

- A—Handrail (2 used)
B—Locking Lever

CAUTION: Avoid injury to you or others. Keep hands away from moving components while folding or unfolding the ladder. Always use the handrails to fold or unfold the ladder.

Push up on handrails (A) to raise ladder in the up position until locking lever (B) latches.

Unfold Ladder



H124946—UN—30AUG18

- A—Locking Lever
B—Handrail (2 used)

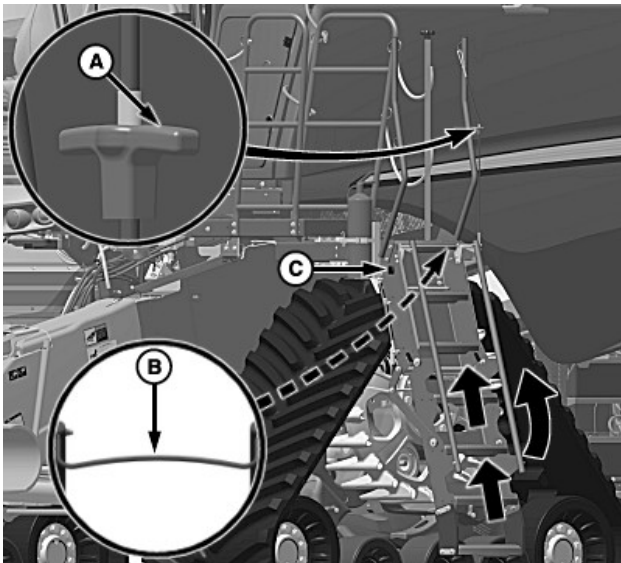
CAUTION: Avoid injury to you or others. Keep hands away from moving components while folding or unfolding the ladder. Always use the handrails to fold or unfold the ladder.

Push up on locking lever (A) and pull down on handrails (B) to lower ladder in the down position.

OUC6075,0004A23-19-06SEP18

Cab Ladder Positions (Fold/Unfold from Cab Landing)

Fold Ladder



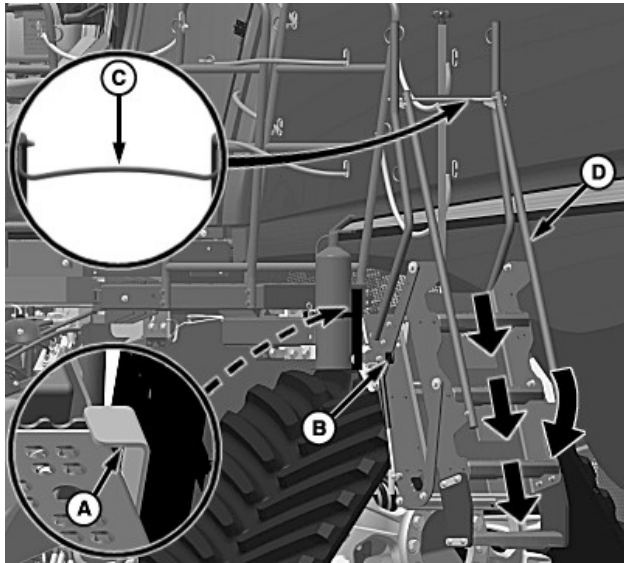
H124948—UN—30AUG18

A—Handle
B—Crossbar
C—Locking Lever

CAUTION: Avoid injury to you or others. Keep hands away from moving components while folding or unfolding the ladder. Always use the handrails to fold or unfold the ladder.

1. Pull up on handle (A) until crossbar (B) can be reached.
2. Continue to pull up on crossbar to raise the ladder until locking lever (C) latches and secures the ladder in the up position.

Unfold Ladder



H124947—UN—30AUG18

A—Pedal
B—Locking Lever
C—Crossbar
D—Ladder

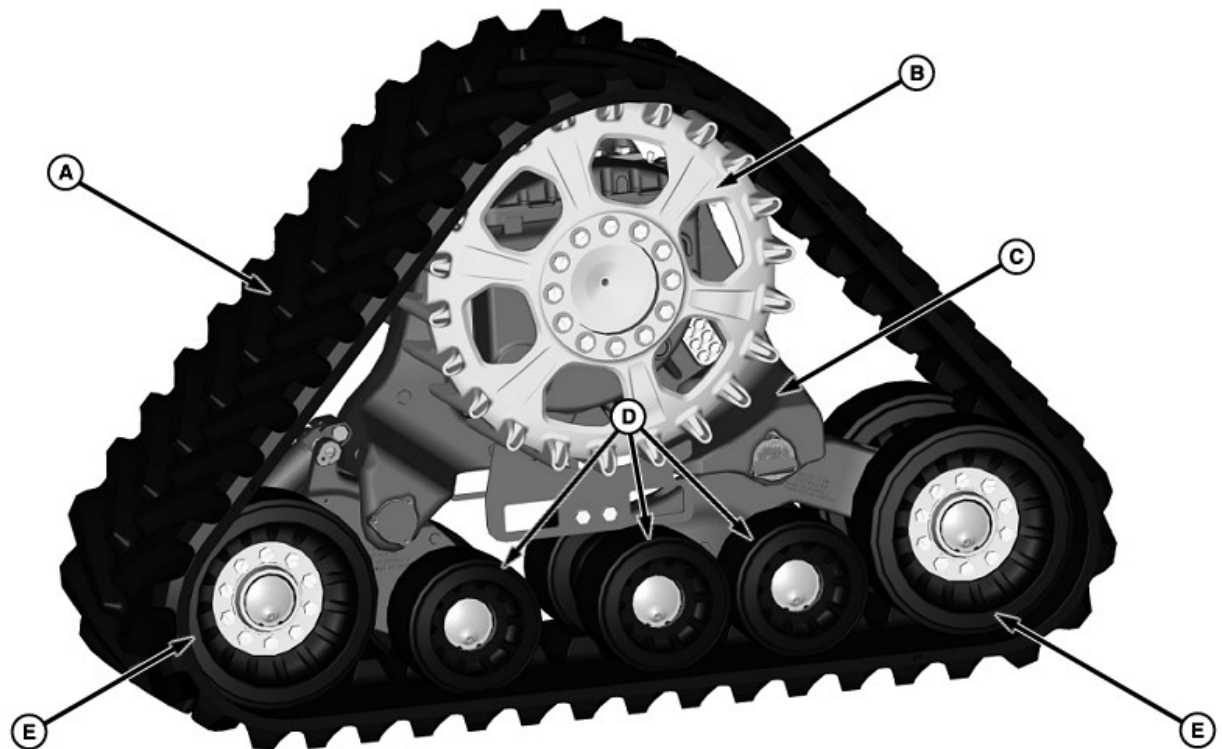
CAUTION: Avoid injury to you or others. Keep hands away from moving components while folding or unfolding the ladder. Always use the handrails to fold or unfold the ladder.

1. Push down on pedal (A) to unlatch the locking lever (B).
2. Push down on crossbar (C) until it can be reached with your foot.
3. Continue to press down on the crossbar to lower the ladder (D) all the way down.

OUC6075,0004A24-19-06SEP18

Operating Track Combine

Track Components



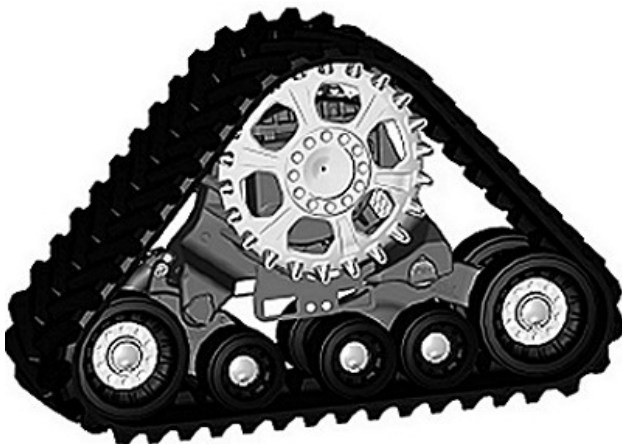
H122226—UN—10AUG17

A—Rubber Track Belt
B—Drive Wheel
C—Main Frame

OUC6041,0000C2E-19-10AUG17

D—Bogie Wheels
E—Idler Wheels

Track Features and Benefits



H122227—UN—10AUG17

Features and benefits of tracks:

- Compaction – reduces compaction
- Flotation – increased flotation in adverse conditions

- Ride Quality– rubberized idlers and bogies cushion ride
- Low Maintenance – zero grease points
- Auto Tension - efficient absorption of impacts or ingestion of debris
- Integrated Track – continuous rubber track minimizes surface damage
- Positive Drive – gently spreads torque on the rubber belt with low rolling resistance
- Speed –equal speed as tires

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 suspension system compensate for uneven ground terrain. This results in even ground pressure over the entire track area.

OUC6041,0000C2F-19-11JAN18

Operate Track Machines

IMPORTANT: High-speed road travel increases tread wear rates and builds excessive heat, which can reduce drive lug life. See Road Transport Speeds later in this section for further information. Road travel should be avoided prior to completing the break-in period, particularly on asphalt roads. If road travel is necessary with new tracks, reduce transport speed and apply dry lubricant to drive lugs to aid in the 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.

Machine behavior on paved roads is similar to behavior of the machine with wheels. On non-paved, poor roads and in field, the machine compensates for uneven ground and is not prone to bounce compared to a machine with wheels.

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

Maximizing Track Life

IMPORTANT: Avoid track and track system component damage, pre-condition tracks.

- Pre-condition the tracks before driving machine on the road for first time. See Belt Care and Conditioning Break-In for further information.
- Avoid traveling at high speeds with a new set of tracks and wheels, especially during the first 100 hours.

Debris buildup can cause fire from increased friction. Remove debris from the buildup points between track and machine frame.

Avoid operating track in grease, oil, or other petroleum chemicals. Avoid spilling these materials on track and wheels during service.

Track carcasses are designed to exceed tread wear out, so long as integrity of carcass is maintained. It is critical to keep moisture out of the steel carcass and to avoid situations where localized cable overloading could occur. Track machine owners are advised to follow these guidelines to achieve maximum track life and avoid operational problems, all of which results in lower cost per operating hour:

- Minimize roading. Excessive road travel can

increase track wear up to 15 times field wear rates

- Minimize transport weight during road transport.
- Reduce maximum travel speed especially during high ambient conditions.

- Use correct operational techniques

- Avoid skidding and tread bar scrubbing on hard surfaces to reduce track wear.
- Use care when crossing ditches or transitions while making turns. Diagonal crossing of ditches causes track to become unsupported in the center and with idler hitting opposite embankment, can cause momentary loss of tension that can drop center section down and outside drive or idler wheels, making derailing a much higher risk if in a turn.
- Do not exceed side operating slope of 10 degrees or fore/aft operating slope of 22 degrees.

- Maintain correct track tension

- Under-tension causes rapid wear on tracks and inside surface of belt due to slippage and potentially cause material buildup.
- Over-tension adds extra load and stress to undercarriage bearings, internal track cables, and track frame.

- Keep irregular material out of tracks

Sharp hard material inside the track is primary reason for localized track tears and subsequent entry points for moisture into the track carcass.

OUO6041.0000C30-19-14MAY18

Road Transport Speeds

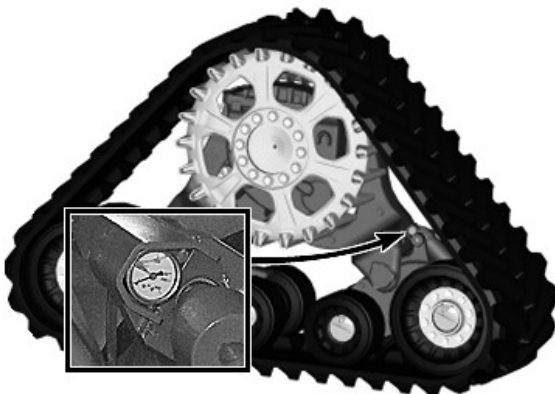
NOTE: Maximum allowed road time to maximize rubber belt/wheels life.

Without Header Attached (All Belt Widths)						
Ambient Temperature		Speed				
		25	30	35	40	km/h
°C	°F	15	18	21	25	mph
0	32	>5.0				Hours
5	41					
10	50					
15	59					
20	68	>5.0			4.5	
25	77	>5.0	4.5		4.0	
30	86	4.0		3.5		
35	95	3.5		3.0		
40	104	3.0	2.5		2.0	

With Header Attached (76.2 cm (30 in) Track and 91.4 cm (36 in) Track)						
Ambient Temperature		Speed				
		25	30	35	40	km/h
°C	°F	15	18	21	25	mph
0	32	>5.0				Hours
5	41	>5.0		4.5	1.0	
10	50			1.0		
15	59	>5.0	4.5			
20	68	4.5	4.0			
25	77	4.0	3.5			
30	86	3.5	3.0			
35	95	3.0	2.5			
40	104	2.5	1.5			

OUC6075,0004871-19-14JUN18

Track Tensioning System



H122229—UN—15AUG17

IMPORTANT: Check tension cylinder pressure prior to using the machine.

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 above the front idler wheels at location shown. Gauge is used to provide a quick visual check to verify that pressure is within recommended operating range.

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.

OUC6041,0000C31-19-10MAY18

Ground Drive and Rear Axle

Ballast Requirements

See the Combine Operator's Manual for further information on proper ballasting for rear tires.

OUO6075,0004841-19-16NOV17

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.

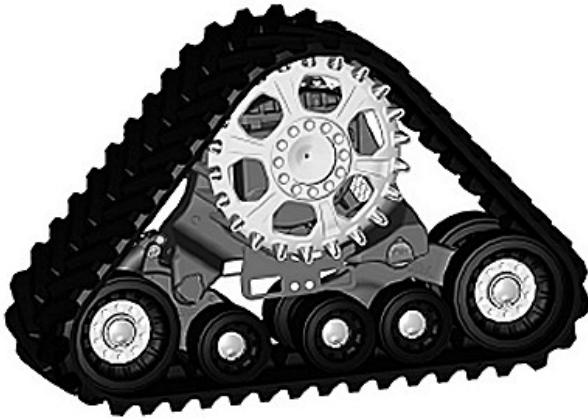
Regular and thorough cleaning of machine combined with other routine maintenance procedures listed in the Operator's Manual greatly reduces the risk of fire, chance of costly downtime, and improve machine performance.

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

Cleaning Tracks



H122230—UN—15AUG17

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

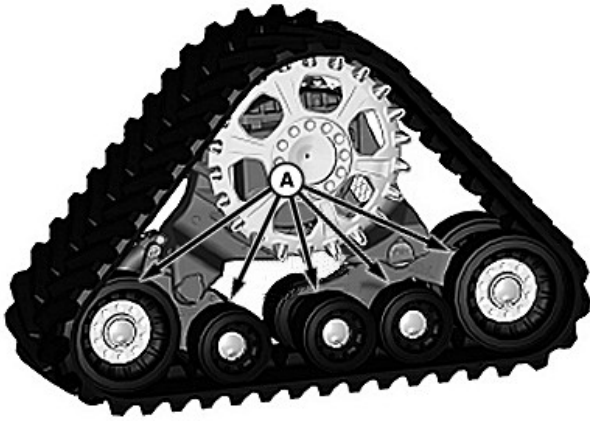
Always keep drive wheel and mainframe clear of dirt and debris.

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.

OUO6041,0000C32-19-15AUG17

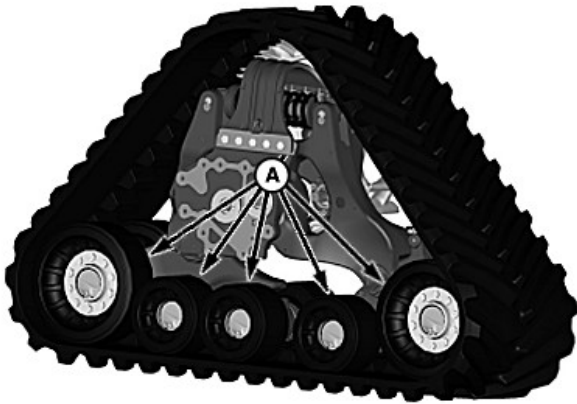
Machine Cleanout

Track Cleanout Areas



Outside View

H122231—UN—15AUG17



Inside View

H122232—UN—15AUG17

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.

OUO6041,0000C33-19-16AUG17

Lubrication and Maintenance

Service Interval Chart

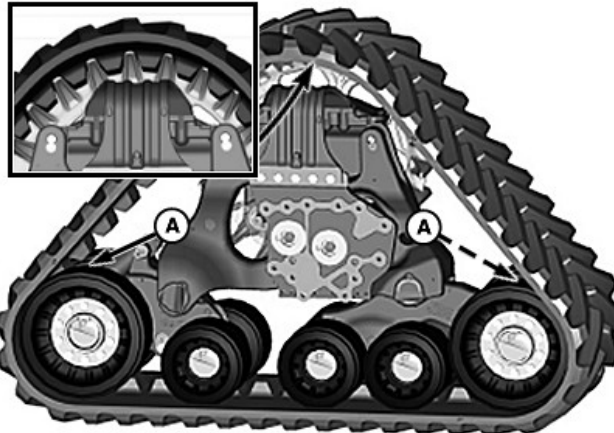
IMPORTANT: Service times are for average conditions. Service more often if machine is used in extreme conditions.

Service	First 10 Hours	Every 10 Hours	First 100 Hours	Every 400 Hours	Every 1000 Hours
Clean Dirt and Debris From Drive Wheels		•			
Clean Dirt and Debris From Mainframe		•			
Check Bogie Hubs Oil Level				•	
Check Idler Hubs Oil Level				•	
Check Pressure Settings			•	•	
Check Belt Tracking			•	•	
Check Bolt Torque	•		•	•	
Check Idler Wheel and Sprocket Bolt Torque	•		•	•	
Change Bogie Hubs Oil					•
Change Idler Hubs Oil					•
Swap Belts Left/Right ^a					•

^aBelt swap only required based on traction lug wear.

OUC6075,0004A25-19-06SEP18

Belt Care and Conditioning Break-In



H122233—UN—16AUG17

A—Front and Rear Drive Wheel Areas

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

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

Verify that guide/drive lugs have the dry lubricant on all surfaces.

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

Run machine for approximately 10 hours after installation.

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

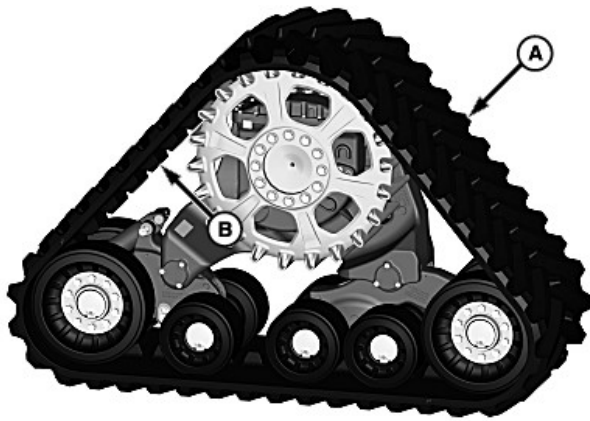
Check track module hardware torque and retighten as needed.

OUC6041,0000C34-19-11OCT17

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, dry lubricant must be applied to drive lugs of the rubber track belt to aid in the proper belt conditioning.

Track Replacement Criteria



H124521—UN—15JUN18

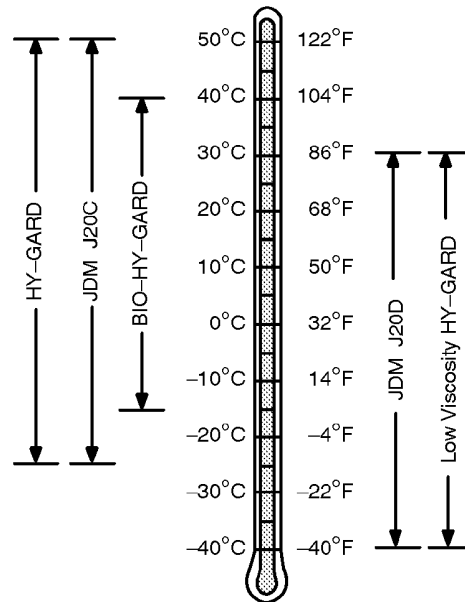
A—Tread Bar
B—Drive Lugs

To prevent damages and/or loss of performance, tracks must be replaced when one of the following criteria is reached:

- Tread bar height (A) is less than 12 mm (0.5 in) for traction tracks
- More than three tread bars are missing in a row
- More than three consecutive drive lugs (B) are missing
- Wear on drive lugs is more than 50%
- De-tracking occurs due to worn-out or missing drive lugs
- Main cables are broken on more than a third (1/3) of the width of the track
- Main cables are visible on the inside surface of the track
- Sprocket is skipping teeth due to missing/worn drive lugs

OUC06041,0000D63-19-15JUN18

Hydraulic Oil



TS1660—UN—10OCT97

Use oil viscosity based on the expected air temperature range during the period between oil changes.

The following oils are preferred:

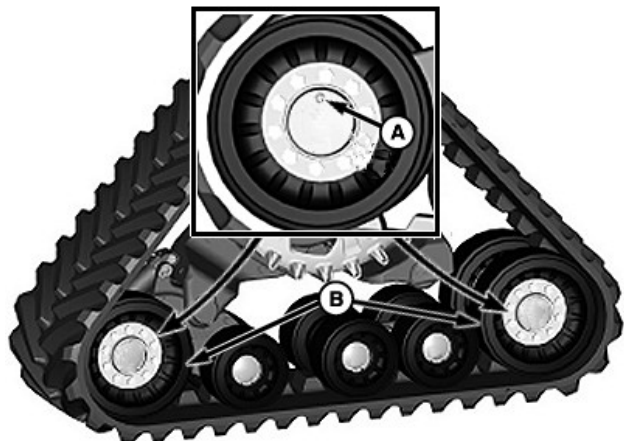
- John Deere Hy-Gard™
- John Deere Low Viscosity Hy-Gard™

Other oils may be used if they meet one of the following:

- John Deere Standard JDM J20C
- John Deere Standard JDM J20D

OUC0002,0005875-19-13JUN18

Check Oil



A—Drain Plug (2 used)
B—Idler Hub (2 used)

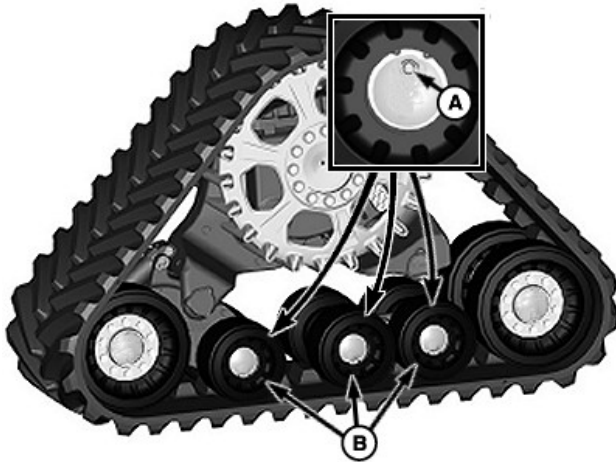
H122663—UN—25OCT18

CAUTION: Avoid burn injury. Wear protective gloves or allow components time to cool. Bogie wheels, idler wheels, and rubber track belt normally operate at high temperatures and can be hot to touch.

NOTE: Check oil *ONLY* on the outer idler hub since the oil sump is common between the outer and inner idler hubs.

Clean area around drain plugs before removing.
Catch any oil in a clean container.

1. Drive the machine forward or backward so the drain plug (A) on the outer idler hub (B) is at the top.
2. Remove drain plug and verify that the oil level is at the bottom of the hole opening. Add oil as required.
3. Install drain plug.
4. Repeat steps for the other idler hubs.



A—Drain Plug (3 used)
B—Bogie Hub (3 used)

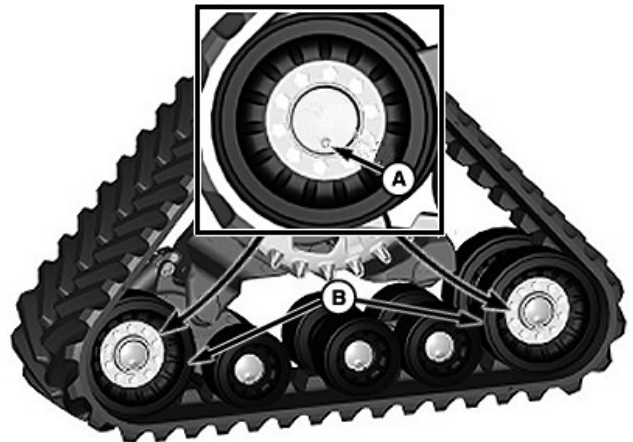
H122664—UN—25OCT17

NOTE: Check oil *ONLY* on the outer bogie hub since the oil sump is common between the outer and inner bogie hubs.

5. Drive the machine forward or backward so the drain plug (A) on the outer bogie hub (B) is at the top.
6. Remove drain plug and verify that the oil level is at the bottom of the hole opening. Add oil as required.
7. Install drain plug.
8. Repeat steps for the other bogie hubs.

OUO6041,0000C7B-19-18APR18

Change Oil



H122234—UN—24OCT17

A—Drain Plug (2 used)
B—Idler Hub (2 used)

CAUTION: Avoid burn injury. Wear protective gloves or allow components time to cool. Bogie wheels, idler wheels, and rubber track belt normally operate at high temperatures and can be hot to touch.

NOTE: Change oil *ONLY* on the outer idler hubs since the oil sump is common between the outer and inner idler hubs.

Clean area around the drain plugs before removing.
Catch any oil in a clean container.

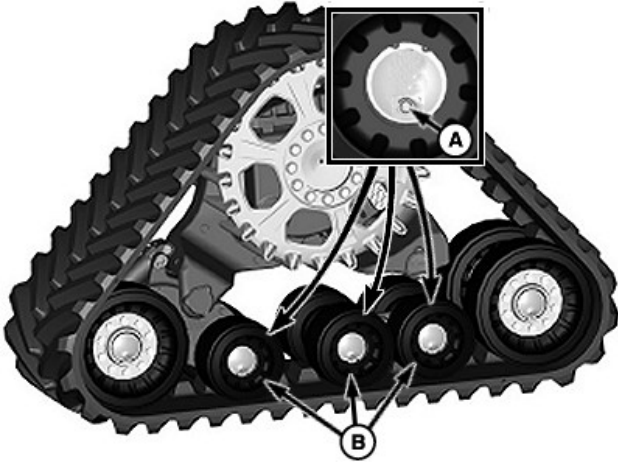
1. Drive the machine forward or backward so the drain plug (A) on the outer idler hub (B) is at the bottom.
2. Remove drain plug and drain oil.
3. Drive the machine forward or backward so the idler drain plug (A) is at the top.
4. Fill to specification using Hy-Gard™ oil.

Specification

Idler Hub—Capacity. 1300 mL
(44 oz)

5. Install drain plug.
6. Repeat steps for the other idler hub.

Hy-Gard is a trademark of Deere & Company



H122253—UN—24OCT17

A—Drain Plug (3 used)
B—Bogie Hub (3 used)

NOTE: Change oil *ONLY* on the outer bogie hubs since the oil sump is common between the outer and inner bogie hubs.

7. Drive the machine forward or backward so the drain plug (A) on the outer bogie hub (B) is at the bottom.
8. Remove drain plug and drain oil.
9. Drive the machine forward or backward so the bogie drain plug (A) is at the top.
10. Fill to specification using Hy-Gard™ oil.

Specification

Bogie Hubs—Capacity. 1300 mL
 (44 oz)

11. Install drain plug.
12. Repeat steps for the other bogie hubs.

OUO6041,0000C35-19-11JUL18

Specifications

Specifications

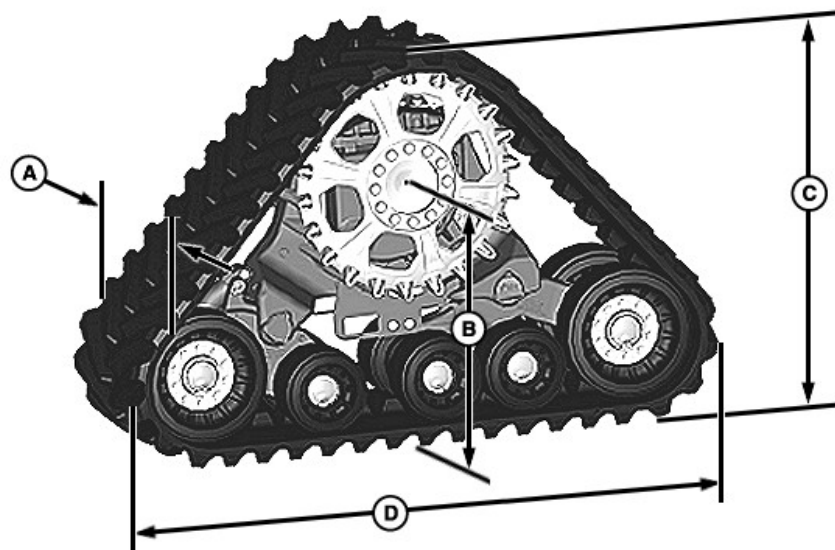
Track Specifications		
Load Capacity	22 650 kg (49 935 lb)	
Weight	76.2 cm (30 in)	2840 kg (6262 lb)
	91.4 cm (36 in)	3000 kg (6615 lb)
Rolling Circumference	6032 mm (238 in)	

Capacities		
Idler Hubs	1300 mL (44 oz)	
Bogie Hubs	1300 mL (44 oz)	
Oil Type	Hy-Gard™ Oils meeting John Deere Standard JDM J20C	

Hy-Gard is a trademark of Deere & Company

OUO6041,0000C3D-19-05DEC17

Track Module Dimensions



H122256—UN—19OCT17

Legend	Dimension
A	76.2 cm (30 in)
	91.4 cm (36 in)
B	1165 mm (46 in)
C	18 111 mm (71 in)
D	2767 mm (109 in)

OUO6041,0000C3B-19-05DEC17

Combine Dimensions

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

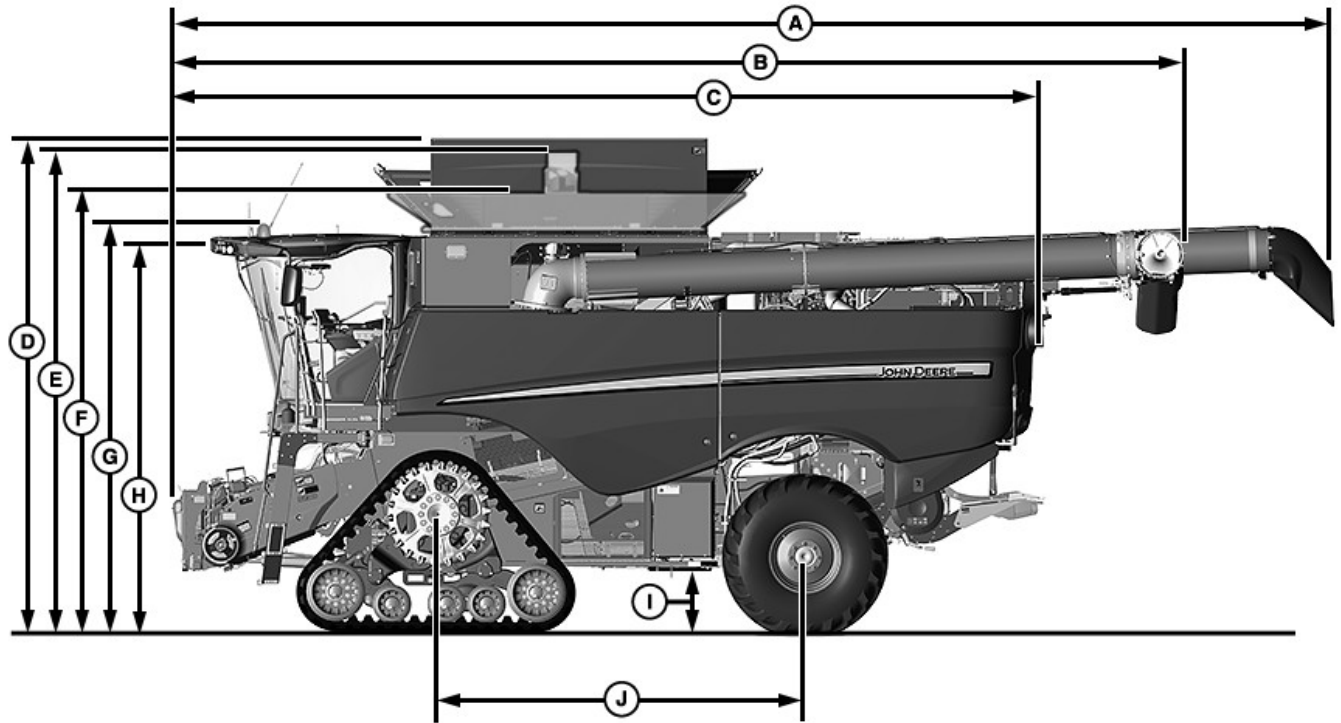
Legend	Dimension
A	11.00 m (36 ft 1 in) with 6.9 m (22 ft 5 in) Unloading Auger 12.00 m (39 ft 3 in) with 7.9 m (26 ft 0 in) Unloading Auger 12.45 m (40 ft 8 in) with 8.7 m (28 ft 5 in) Unloading Auger
B	9.11 m (29 ft 9 in) with 6.9 m (22 ft 5 in) Power Fold Auger 9.92 m (32 ft 5 in) with 7.9 m (26 ft 0 in) Power Fold Auger
C	8.51 m (27 ft 9 in)
D	4.87 m (15 ft 9 in) with 10 572 L (300 bu) Covers 4.87 m (15 ft 9 in) with 14 096 L (400 bu) Covers
E	4.58 m (15 ft 1 in) with Clean Grain Loading Auger (300 bu) 4.72 m (15 ft 5 in) with Clean Grain Loading Auger (400 bu)
F	4.26 m (13 ft 10 in) with 10 572 L (300 bu) Extensions 4.53 m (14 ft 9 in) with 14 096 L (400 bu) Extensions
G	3.93 m (12 ft 9 in)
H	3.88 m (12 ft 7 in)
I	0.59 m (1 ft 9 in)
J	3.60 m (11 ft 8 in)
K	7.66 m (25 ft 1 in) with 6.9 m (22 ft 5 in) Unloading Auger 8.98 m (29 ft 5 in) with 7.9 m (26 ft 0 in) Unloading Auger 9.42 m (30 ft 9 in) with 8.7 m (28 ft 5 in) Unloading Auger
L	5.16 m (16 ft 9 in) with 6.9 m (22 ft 5 in) Unloading Auger 5.42 m (17 ft 8 in) with 7.9 m (26 ft 0 in) Unloading Auger 5.53 m (18 ft 2 in) with 8.7 m (28 ft 5 in) Unloading Auger
M	4.46 m (14 ft 6 in) with 6.9 m (22 ft 5 in) Unloading Auger 4.55 m (14 ft 9 in) with 7.9 m (26 ft 0 in) Unloading Auger 4.66 m (15 ft 3 in) with 8.7 m (28 ft 5 in) Unloading Auger
N ^a	4.52 m (14 ft 8 in) with 6.9 m (22 ft 5 in) Unloading Auger 4.84 m (15 ft 9 in) with 7.9 m (26 ft 0 in) Unloading Auger 4.95 m (16 ft 3 in) with 8.7 m (28 ft 5 in) Unloading Auger
O ^b	3.70—4.14 m (12 ft 1 in—13 ft 6 in) Rear Tires
P ^b	4.40 m (14 ft 4 in) with 394 mm (15-1/2 in) Axle Extensions 76.2 cm (30 in) Tracks 4.54 m (14 ft 9 in) with 394 mm (15-1/2 in) Axle Extensions 91.4 cm (36 in) Tracks

^aDimension is measured 1.22 m (4 ft) from the grain spill point. This represents the unloading auger when centered over the grain cart.

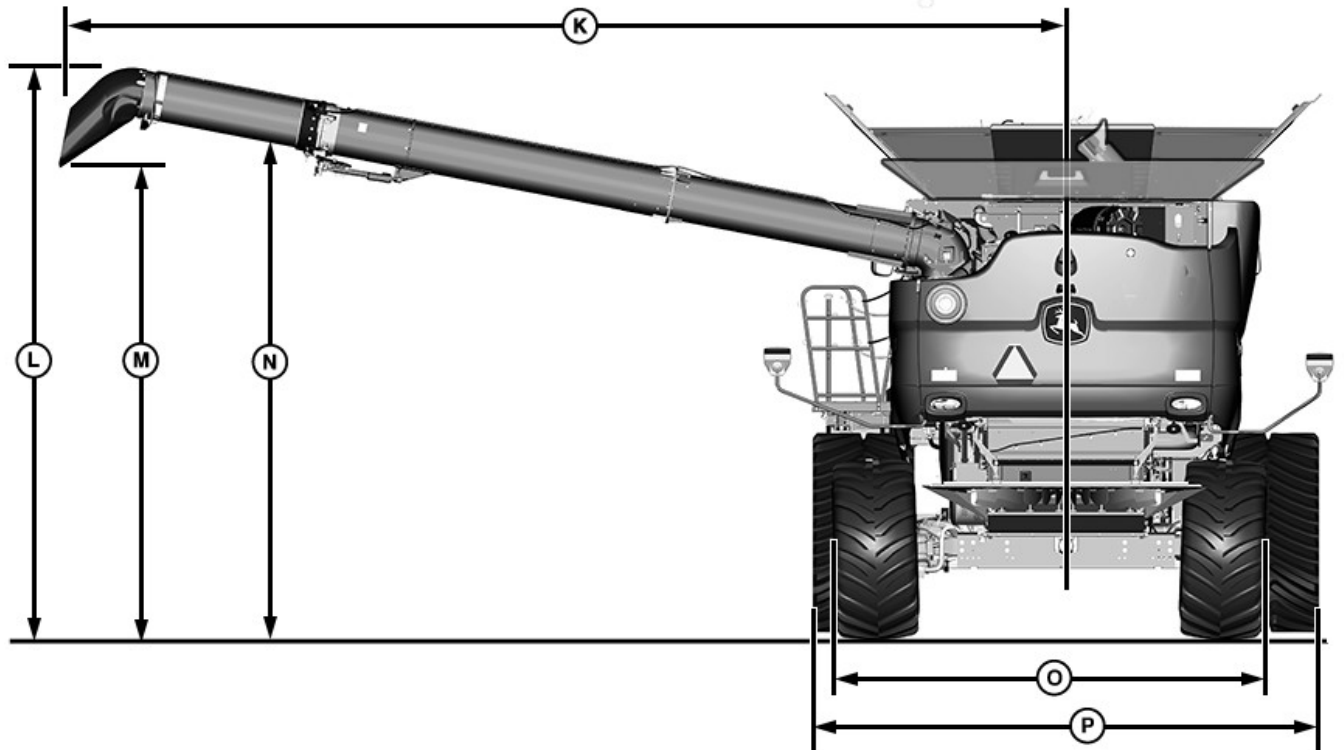
^bDue to the different tire configurations, row spacings, axle configurations, wheel offsets, axle positions, and spindles types, machine widths will vary. Measurements given in chart are for minimum and maximum widths. For more detailed width information, see your John Deere dealer.

OUO6041,0000C6F-19-05DEC17

Dimension Reference Points



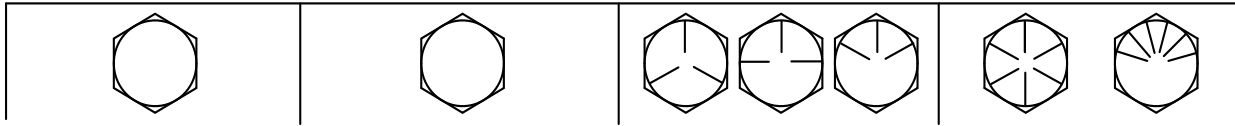
H122257—UN—24AUG17



H122258—UN—16NOV17

OJ06041,0000C3A-19-05DEC17

Unified Inch Bolt and Screw Torque Values



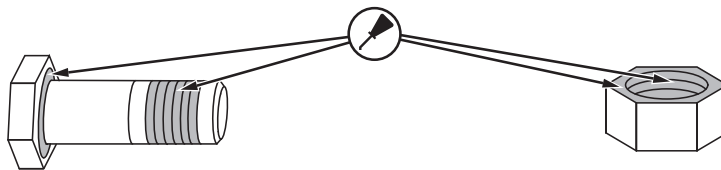
TS1671—UN—01MAY03

Bolt or Screw Size	SAE Grade 1 ^a				SAE Grade 2 ^b				SAE Grade 5, 5.1 or 5.2				SAE Grade 8 or 8.2			
	Hex Head ^c		Flange Head ^d		Hex Head ^c		Flange Head ^d		Hex Head ^c		Flange Head ^d		Hex Head ^c		Flange Head ^d	
	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	3.1	27.3	3.2	28.4	5.1	45.5	5.3	47.3	7.9	70.2	8.3	73.1	11.2	99.2	11.6	103
5/16	6.1	54.1	6.5	57.7	10.2	90.2	10.9	96.2	15.7	139	16.8	149	22.2	16.4	23.7	17.5
3/8	10.5	93.6	11.5	102	17.6	156	19.2	170	27.3	20.1	29.7	21.9	38.5	28.4	41.9	30.9
7/16	16.7	148	18.4	163	27.8	20.5	30.6	22.6	43	31.7	47.3	34.9	60.6	44.7	66.8	49.3
1/2	25.9	19.1	28.2	20.8	43.1	31.8	47	34.7	66.6	49.1	72.8	53.7	94	69.3	103	75.8
9/16	36.7	27.1	40.5	29.9	61.1	45.1	67.5	49.8	94.6	69.8	104	77	134	98.5	148	109
5/8	51	37.6	55.9	41.2	85	62.7	93.1	68.7	131	96.9	144	106	186	137	203	150
3/4	89.5	66	98	72.3	149	110	164	121	230	170	252	186	325	240	357	263
7/8	144	106	157	116	144	106	157	116	370	273	405	299	522	385	572	422
1	216	159	236	174	216	159	236	174	556	410	609	449	785	579	860	634
1-1/8	305	225	335	247	305	225	335	247	685	505	751	554	1110	819	1218	898
1-1/4	427	315	469	346	427	315	469	346	957	706	1051	775	1552	1145	1703	1256
1-3/8	564	416	618	456	564	416	618	456	1264	932	1386	1022	2050	1512	2248	1658
1-1/2	743	548	815	601	743	548	815	601	1665	1228	1826	1347	2699	1991	2962	2185

The nominal torque values listed are for general use only with the assumed wrenching accuracy of 20%, such as a manual torque wrench. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application.

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 that fastener threads are clean.
- Apply a thin coat of Hy-Gard™ or equivalent oil under the head and on the threads of the fastener, as shown in the following image.
- Be conservative with the amount of oil to reduce the potential for hydraulic lockup in blind holes due to excessive oil.
- Properly start thread engagement.



TS1741—UN—22MAY18

^aGrade 1 applies for hex cap screws over 6 in (152 mm) long, and for all other types of bolts and screws of any length.

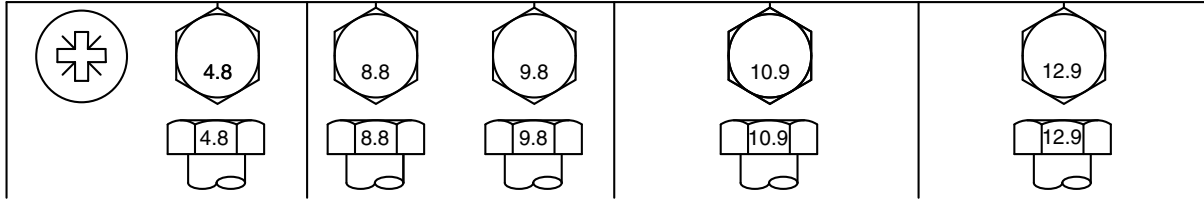
^bGrade 2 applies for hex cap screws (not hex bolts) up to 6 in (152 mm) long.

^cHex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.

^dHex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.

DX,TORQ1-19-30MAY18

Metric Bolt and Screw Torque Values



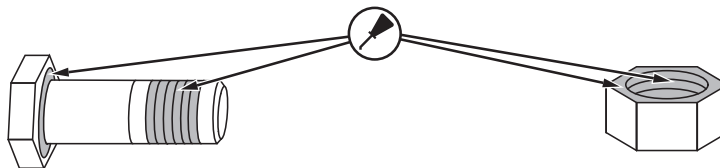
TS1742—UN—31MAY18

Bolt or Screw Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Hex Head ^a		Flange Head ^b		Hex Head ^a		Flange Head ^b		Hex Head ^a		Flange Head ^b		Hex Head ^a		Flange Head ^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	3.6	31.9	3.9	34.5	6.7	59.3	7.3	64.6	9.8	86.7	10.8	95.6	11.5	102	12.6	112
									N·m	lb·ft	N·m	lb·ft	N·m	lb·ft	N·m	lb·ft
M8	8.6	76.1	9.4	83.2	16.2	143	17.6	156	23.8	17.6	25.9	19.1	27.8	20.5	30.3	22.3
			N·m	lb·ft	N·m	lb·ft	N·m	lb·ft								
M10	16.9	150	18.4	13.6	31.9	23.5	34.7	25.6	46.8	34.5	51	37.6	55	40.6	60	44.3
	N·m	lb·ft														
M12	—	—	—	—	55	40.6	61	45	81	59.7	89	65.6	95	70.1	105	77.4
M14	—	—	—	—	87	64.2	96	70.8	128	94.4	141	104	150	111	165	122
M16	—	—	—	—	135	99.6	149	110	198	146	219	162	232	171	257	190
M18	—	—	—	—	193	142	214	158	275	203	304	224	322	245	356	263
M20	—	—	—	—	272	201	301	222	387	285	428	316	453	334	501	370
M22	—	—	—	—	365	263	405	299	520	384	576	425	608	448	674	497
M24	—	—	—	—	468	345	518	382	666	491	738	544	780	575	864	637
M27	—	—	—	—	683	504	758	559	973	718	1080	797	1139	840	1263	932
M30	—	—	—	—	932	687	1029	759	1327	979	1466	1081	1553	1145	1715	1265
M33	—	—	—	—	1258	928	1398	1031	1788	1319	1986	1465	2092	1543	2324	1714
M36	—	—	—	—	1617	1193	1789	1319	2303	1699	2548	1879	2695	1988	2982	2199

The nominal torque values listed are for general use only with the assumed wrenching accuracy of 20%, such as a manual torque wrench. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application.

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 that fastener threads are clean.
- Apply a thin coat of Hy-Gard™ or equivalent oil under the head and on the threads of the fastener, as shown in the following image.
- Be conservative with the amount of oil to reduce the potential for hydraulic lockup in blind holes due to excessive oil.
- Properly start thread engagement.



TS1741—UN—22MAY18

^aHex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.

^bHex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.

DX, TORQ2-19-30MAY18

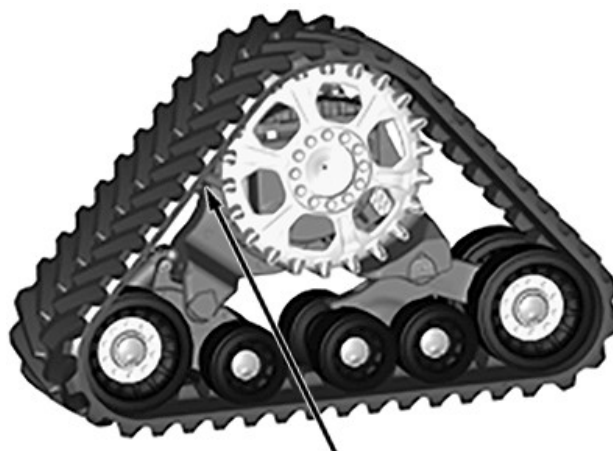
Machine Identification Numbers

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.

OUC6075,00014F7-19-05JUN13

Identification Plate Location



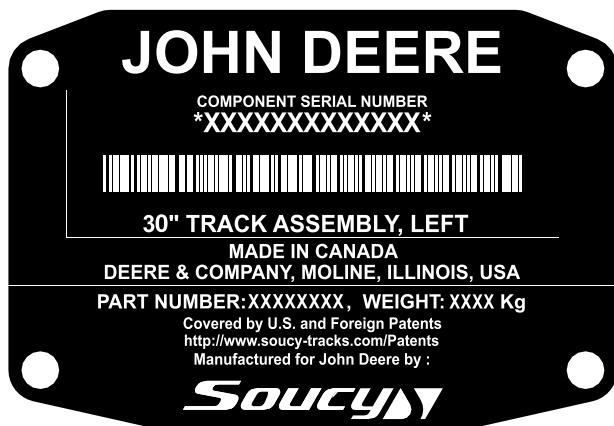
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H122290—UN—06SEP17

Located on inside of each track module.

OUC6041,0000C3C-19-25AUG17

Track Identification Plates



H122614—UN—14NOV17

Sample Identification Plate (Left-Hand Track)



H122615—UN—14NOV17

Sample Identification Plate (Right-Hand Track)

NOTE: 76.2 cm (30 in) track serial number plate shown.

91.4 cm (36 in) track serial number plates are similar.

OUC6041,0000C6E-19-05DEC17

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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:



TS189—UN—17JAN89

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.



TS191—UN—02DEC88

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



TS224—UN—17JAN89

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.



TS1663—UN—10OCT97

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.

DX,SERV LIT-19-07DEC16

John Deere Service Keeps You On The Job

John Deere Parts



TS100—UN—23AUG88

We help minimize downtime by putting genuine John Deere parts in your hands in a hurry.

That's why we maintain a large and varied inventory—to stay a jump ahead of your needs.

DX,IBC,A-19-04JUN90

School is never out for John Deere service technicians.

Training schools are held regularly to be sure our personnel know your equipment and how to maintain it.

Result?

Experience you can count on!

DX,IBC,C-19-04JUN90

Prompt Service



TS103—UN—23AUG88

Our goal is to provide prompt, efficient care when you want it and where you want it.

We can make repairs at your place or at ours, depending on the circumstances: see us, depend on us.

JOHN DEERE SERVICE SUPERIORITY: We'll be around when you need us.

DX,IBC,D-19-04JUN90

The Right Tools



TS101—UN—23AUG88

Precision tools and testing equipment enable our Service Department to locate and correct troubles quickly . . . to save you time and money.

DX,IBC,B-19-04JUN90

Well-Trained Technicians



TS102—UN—23AUG88