John Deere Tracks
BXE10917, BXE10918, BXE10919

JOHN DEERE

INSTALLATION INSTRUCTIONS

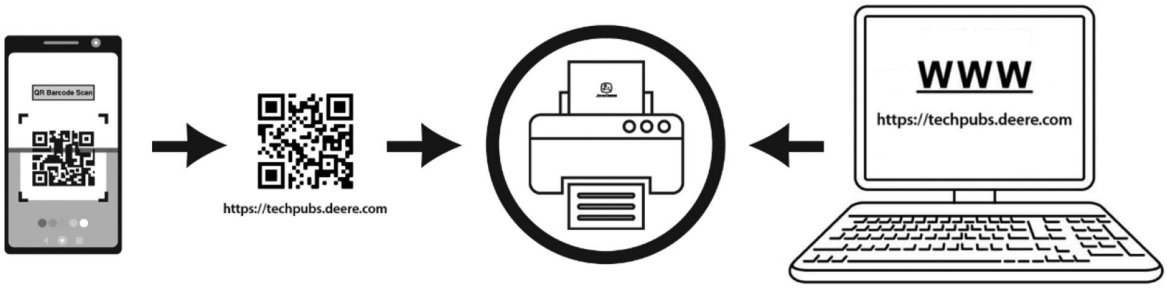
John Deere Tracks

HXE166053 29JUN21 (ENGLISH)

X9 1000 and X9 1100 Combines

John Deere Harvester Works
HXE166053 (29JUN21)
PRINTED IN U.S.A.
COPYRIGHT © 2021
DEERE & COMPANY
Moline, Illinois
All rights reserved.
A John Deere ILLUSTRUCTION ™ Manual
HXE166053-19-29JUN21

Download Instructions



Instructions, manuals, and other documents may be downloaded at www.techpubs.deere.com. Scanning the QR code on a mobile device will route to the site automatically.
Les instructions, les manuels et autres documents peuvent être téléchargés à cette adresse: www.techpubs.deere.com. Scanner le QR code via un appareil mobile mène automatiquement au site.
Istruzioni, manuali e altri documenti possono essere scaricati su www.techpubs.deere.com. La scansione del codice QR su un dispositivo portatile indirizza automaticamente al sito.
Anleitungen, Handbücher und andere Dokumente können unter www.techpubs.deere.com heruntergeladen werden. Durch Scannen des QR-Codes mit einem Mobilgerät wird man automatisch zur Webseite weitergeleitet.
Las instrucciones, los manuales y otros documentos se pueden descargar en www.techpubs.deere.com. Al escanear el código QR en un dispositivo móvil, se abrirá automáticamente el sitio web.
Instruções, manuais e outros documentos podem ser baixados em www.techpubs.deere.com. A leitura do código QR em um dispositivo móvel levará você automaticamente para o site.
Инструкции, руководства и другие документы можно загрузить на странице www.techpubs.deere.com. Сканирование QR-кода на мобильном устройстве будет автоматически отправлять на сайт.

TS1746 —UN—26APR21

DX,DOWNLOADINSTRUCTIONS,AT -19-27APR21-1/1

Introduction

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

This instruction demonstrates the proper procedure for installing the John Deere Tracks using the components provided.

MH69740,00009BB -19-30MAR20-1/1

Parts List 60.9 cm (24 in) Track without Axle Extensions

Part Name	Quantity
Track Module, Left-Hand	1
Track Module, Right-Hand	1
Cap Screw, M16 x 35	2
Cap Screw, M8 x 110	2
Cap Screw, M14 x 40	8
Washer, M16	2
Snap Ring	2
Hydraulic Hose	1
Nut, M8	2
Flange	2
Driveshaft, Right-Hand	1
Driveshaft, Left-Hand	1
Cap Screw, M24 x 80	28
Spacer, M24	28
Dowel Pin	8

OUO6075,0004E2E -19-17SEP20-1/1

Parts List 60.9 cm (24 in) Track with 76 mm (3 in) Axle Extensions

Part Name	Quantity
Track Module, Left-Hand	1
Track Module, Right-Hand	1
Axle Extension, Left-Hand	1
Axle Extension, Right-Hand	1
Cap Screw, M16 x 35	2
Cap Screw, M8 x 110	2
Cap Screw, M14 x 40	8
Washer, M16	2
Snap Ring	2
Hydraulic Hose	1
Nut, M8	2
Flange	2
Driveshaft, Right-Hand	1
Driveshaft, Left-Hand	1
Cap Screw, M24 x 80	12
Cap Screw, M24 x 140	22
Washer, M24	34
Dowel Pin	8

OUO6075,0004E2F -19-17SEP20-1/1

Parts List 76.2 cm (30 in) Track with 76 mm (3 in) Axle Extensions

Part Name	Quantity
Track Module, Left-Hand	1
Track Module, Right-Hand	1
Axle Extension, Left-Hand	1
Axle Extension, Right-Hand	1
Cap Screw, M16 x 35	2
Cap Screw, M8 x 110	2
Cap Screw, M14 x 40	8
Washer, M16	2
Snap Ring	2
Hydraulic Hose	1
Nut, M8	2
Flange	2
Driveshaft, Right-Hand	1
Driveshaft, Left-Hand	1
Cap Screw, M24 x 80	12
Cap Screw, M24 x 140	22
Washer, M24	34
Dowel Pin	8

OUO6075,0004DF2 -19-17SEP20-1/1

Parts List 76.2 cm (30 in) Track with 405 mm (16 in) Axle Extensions

Part Name	Quantity
Track Module, Left-Hand	1
Track Module, Right-Hand	1
Axle Extension, Left-Hand	1
Axle Extension, Right-Hand	1
Cap Screw, M16 x 35	2
Cap Screw, M8 x 110	2
Cap Screw, M14 x 40	8
Washer, M16	2
Snap Ring	2
Hydraulic Hose	1
Nut, M8	2
Flange	2
Driveshaft, Right-Hand	1
Driveshaft, Left-Hand	1
Nut, M30	2
Nut, M24	28
Cap Screw, M24 x 80	56
Washer, M24	56
Washer, M35	2
Spherical Nut, M30	2
Truss Rod	1
Spacer	28
Dowel Pin	8

OUO6075,0004DF3 -19-17SEP20-1/1

Parts List 91.4 cm (36 in) Track with 405 mm (16 in) Axle Extensions

Part Name	Quantity
Track Module, Left-Hand	1
Track Module, Right-Hand	1
Axle Extension, Left-Hand	1
Axle Extension, Right-Hand	1
Cap Screw, M16 x 35	2
Cap Screw, M8 x 110	2
Cap Screw, M14 x 40	8
Washer, M16	2
Snap Ring	2
Hydraulic Hose	1
Nut, M8	2
Flange	2
Driveshaft, Right-Hand	1
Driveshaft, Left-Hand	1
Nut, M30	2
Nut, M24	28
Cap Screw, M24 x 80	56
Washer, M24	56
Washer, M35	2
Spherical Nut, M30	2
Truss Rod	1
Spacer	28
Dowel Pin	8

OUO6075,0004DF4 -19-17SEP20-1/1

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.

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.



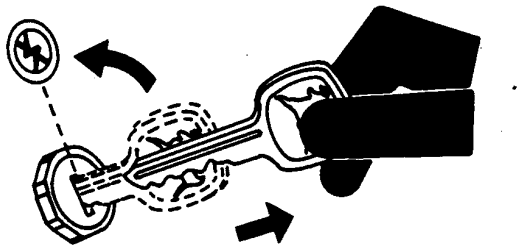
TS187 —19—30SEP88

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

Park Machine Safely

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.

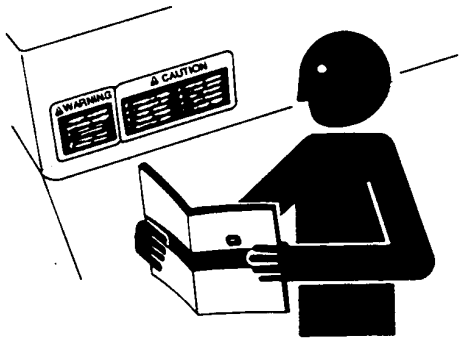


TS230 —UN—24MAY89

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

Follow Safety Instructions

Carefully read all safety messages in this instruction. Read the product operators manual for operating instructions and safety messages. Do not let anyone operate without instruction. (A copy of the operators manual may also be available from the Service ADVISOR™ application.)



TS201 —UN—15APR13

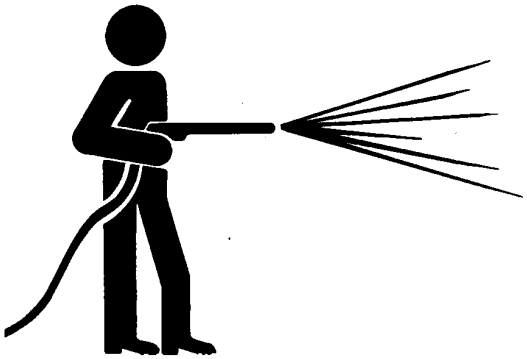
Service ADVISOR is a trademark of Deere & Company

DX,READ,INS -19-23JUN09-1/1

Work in Clean Area

Before starting a job:

- Clean work area and machine.
- Make sure you have all necessary tools to do your job.
- Have the right parts on hand.
- Read all instructions thoroughly; do not attempt shortcuts.



T6642EJ —UN—18OCT88

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

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.

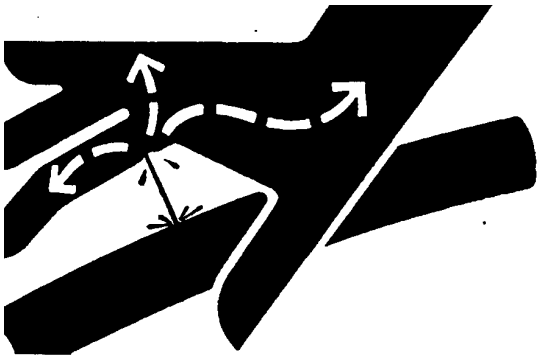
Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

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

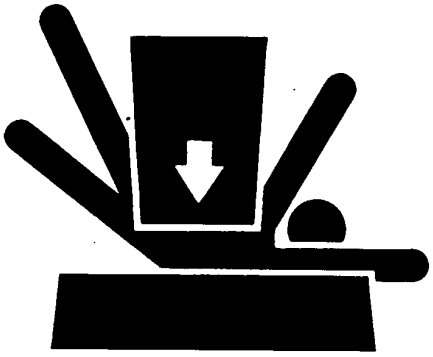
DX,FLUID -19-12OCT11-1/1

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.



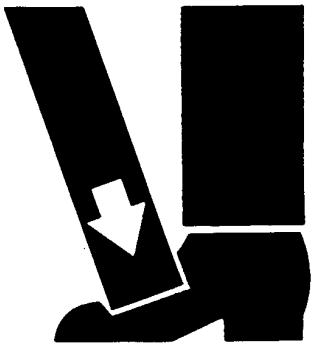
TS229 —UN—23AUG88

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.



TS226 —UN—23AUG88

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

Remove Front Wheels (If Installed)

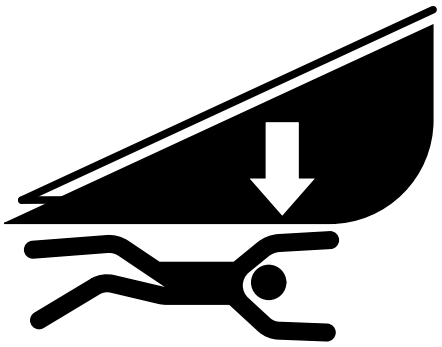
CAUTION: To prevent injury, after engaging the feeder house lock, support the feeder house with solid blocking before performing non-routine service or maintenance items underneath the feeder house or header.

NOTE: The feeder house is equipped with a hydraulic locking system. When locked, the feeder house will not raise or lower and the fore/aft frame will not tilt.

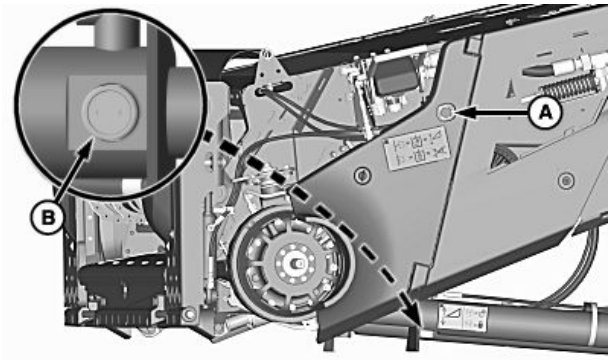
1. Raise the feeder house and tilt the hydraulic feeder house fore/aft tilt frame as needed.

NOTE: When the feeder house safety lock button is pulled out, the safety lock indicator (B) may show red. Verify that the safety lock indicator is NOT red before going under the feeder house.

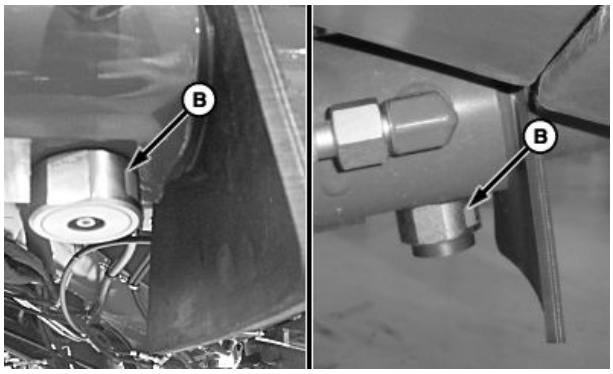
2. Push the feeder house safety lock button (A) to lock the feeder house lift cylinder position and the fore/aft tilt cylinder position.
3. Shut OFF engine, set park brake, and remove key.



H121063 —UN—14MAR17



H126621 —UN—27JAN20



H127632 —UN—01OCT19

A—Lock Button **B—Lock Indicator**

Locked/Unlocked

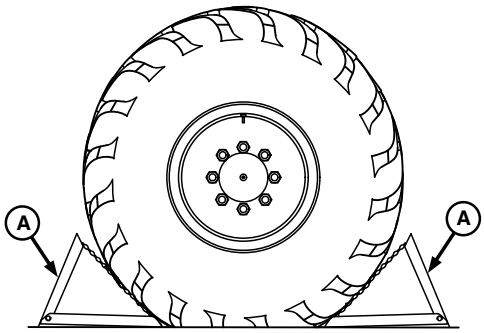
Continued on next page

MH69740,00009BD -19-23NOV20-1/7

CAUTION: Block both sides of tires to prevent movement while raising machine.

4. Block front and rear of tires as shown using blocks (A).
5. With front tires on ground, loosen wheel bolts with one full turn, but do not remove at this time.

A—Block



H118221 —UN—18APR16

MH69740,00009BD -19-23NOV20-2/7

CAUTION: Jack MUST have a minimum lifting capacity of 10 886 kg (24 000 lb).

Do not raise machine at any location other than at the jack points.

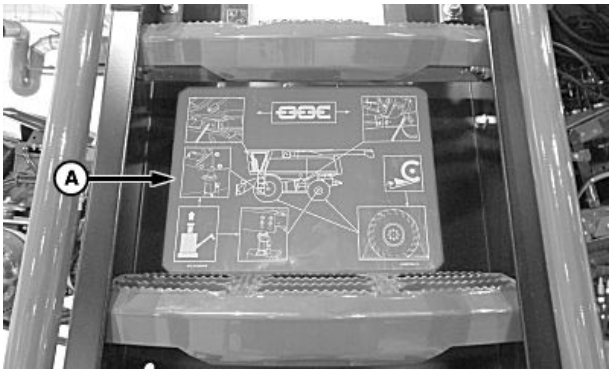
Do not place objects between the jack and the jack point. They may cause machine instability. If the jack does not have enough travel length, place block on ground.

Wood blocks must be in good condition to support machine weight.

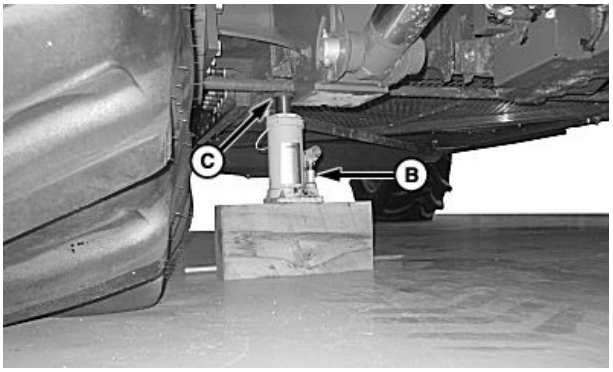
NOTE: Approved jack point locations can be found on decal (A) on the cab ladder.

6. Align jack (B) with the jack point (C) on the front axle and raise machine.

A—Decal
B—Jack
C—Jack Point



H128575 —UN—21JAN20



H127758 —UN—10OCT19

Continued on next page

MH69740,00009BD -19-23NOV20-3/7

CAUTION: To help prevent personal injury caused by unexpected movement of the machine, be sure 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.

Wood blocks must be in good condition to support machine weight.

Be sure that the front axle rests on solid blocking before attempting to remove wheels.

7. Position solid blocking (A) underneath the front axle. Lower machine onto solid blocking, making sure that no load shift is seen or felt.



H127759 —UN—10OCT19

A—Solid Blocking

MH69740,00009BD -19-23NOV20-4/7

8. **Single Wheel Configuration:**

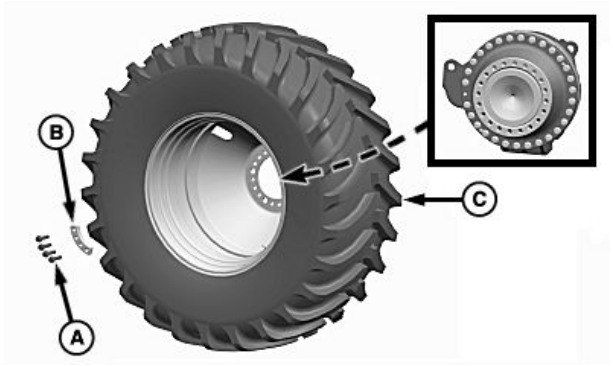
CAUTION: Wheels are heavy and are difficult to handle. To avoid personal injury, two people are needed to remove the wheel.

a. Remove **four** wheel bolts (A) and segmented spacer (B).

b. Repeat steps as needed for remaining segmented spacers and wheels bolts.

c. Remove wheel (C) away from machine.

d. Repeat steps as needed on the opposite side of the machine.



H128054 —UN—18NOV19

A—Wheel Bolt (20 used)
B—Segmented Spacer (5 used)
C—Wheel

Continued on next page

MH69740,00009BD -19-23NOV20-5/7

9. **Dual Wheel Configuration (Outer Wheel):**

CAUTION: Wheels are heavy and are difficult to handle. When handling wheels, off-centered weight can suddenly shift, making wheel handling awkward and the wheel difficult to control. To avoid personal injury, two people are needed to remove the wheel.

a. Remove **four** wheel bolts (A) and segmented spacer (B).

b. Install **one** socket head cap screw (C) through the oversized hole (D) to retain inner wheel in place.

CAUTION: To avoid personal injury, socket head cap screws MUST be installed to prevent inner wheel from coming off when removing outer wheel.

c. Repeat steps as needed for remaining segmented spacers and wheels bolts.

d. Remove outer wheel assembly (E) away from machine.

e. Repeat steps as needed on the opposite side of the machine.

IMPORTANT: If machine must be transported without outer wheels in place, 5 socket head cap screws and 15 wheel bolts MUST be installed and tightened to specification before lowering front axle to ground. Segmented spacers are omitted for road transport, loading, and unloading.



H124224 —UN—14MAY18

A—Wheel Bolt (20 used)
B—Segmented Spacer (5 used)
C—Socket Head Cap Screw (5 used)
D—Oversized Hole (5 used)
E—Outer Wheel Assembly

MH69740,00009BD -19-23NOV20-6/7

10. **Dual Wheel Configuration (Inner Wheel):**

a. Remove socket head cap screws (A).

b. Remove inner wheel assembly (B) away from machine.

A—Socket Head Cap Screw (5 used)
B—Inner Wheel Assembly



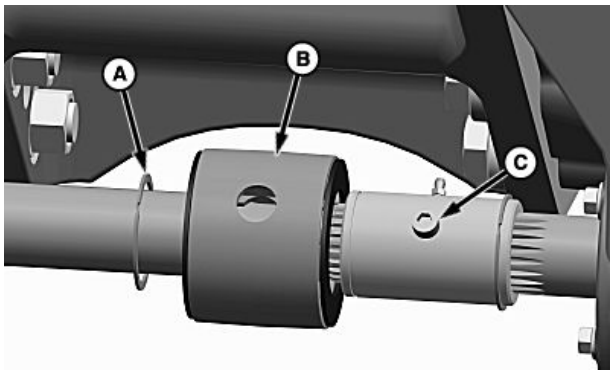
H124225 —UN—14MAY18

MH69740,00009BD -19-23NOV20-7/7

Remove Driveshafts (If Installed)

1. Remove snap ring (A) and slide sleeve (B) on both ends of the driveshaft.
2. Remove socket head cap screw and nut (C) from the coupling on both ends of the driveshaft.
3. Remove couplers and the driveshaft from the machine.
4. Repeat steps on the opposite side of the machine.

A—Snap Ring
B—Sleeve
C—Socket Head Cap Screw and Nut



H128001 —UN—07NOV19

MH69740,00009BE -19-06APR20-1/1

Remove Final Drives (If Installed)

CAUTION: To prevent injury, after engaging the feeder house lock, support the feeder house with solid blocking before performing non-routine service or maintenance items underneath the feeder house or header.

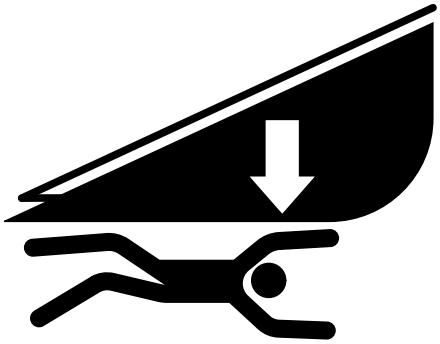
NOTE: The feeder house is equipped with a hydraulic locking system. When locked, the feeder house will not raise or lower and the fore/aft frame will not tilt.

1. Raise the feeder house and tilt the hydraulic feeder house fore/aft tilt frame as needed.

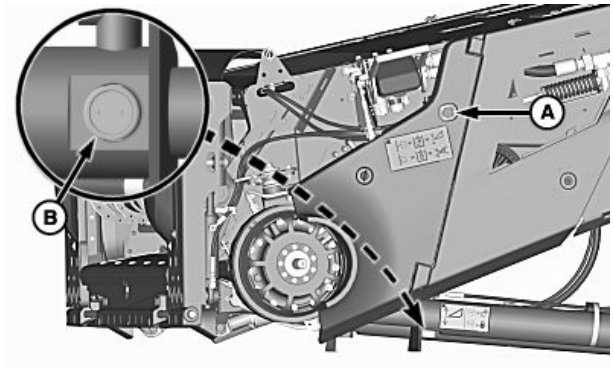
NOTE: When the feeder house safety lock button is pulled out, the safety lock indicator (B) may show red. Verify that the safety lock indicator is NOT red before going under the feeder house.

2. Push the feeder house safety lock button (A) to lock the feeder house lift cylinder position and the fore/aft tilt cylinder position.
3. Shut OFF engine, set park brake, and remove key.

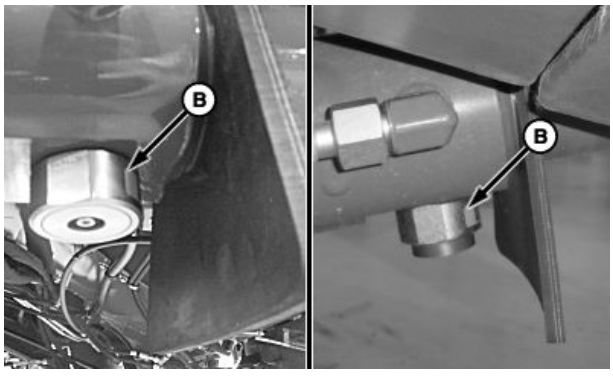
A—Lock Button
B—Lock Indicator



H121063 —UN—14MAR17



H126621 —UN—27JAN20



H127632 —UN—01OCT19

Locked/Unlocked

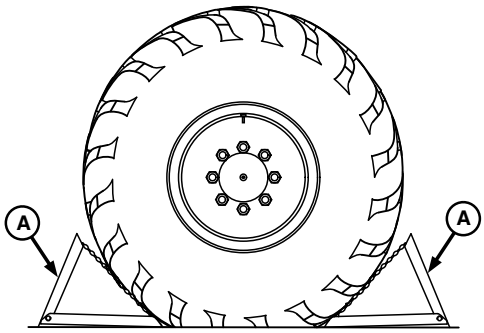
Continued on next page

MH69740,00009BF -19-23NOV20-1/6

CAUTION: Block both sides of tires to prevent movement while raising machine.

4. Block front and rear of tires as shown using blocks (A).
5. With front tires on ground, loosen wheel bolts with one full turn, but do not remove at this time.

A—Block



H118221 —UN—18APR16

MH69740,00009BF -19-23NOV20-2/6

CAUTION: Jack MUST have a minimum lifting capacity of 10 886 kg (24 000 lb).

Do not raise machine at any location other than at the jack points.

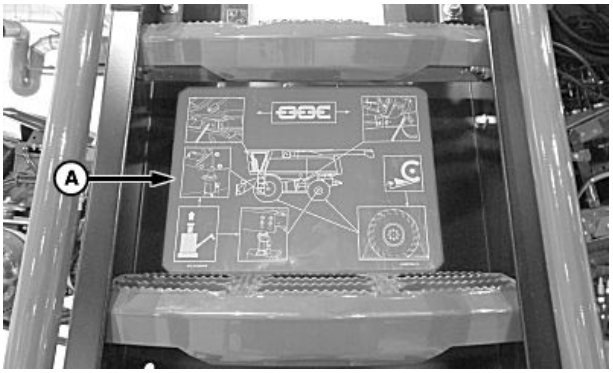
Do not place objects between the jack and the jack point. They may cause machine instability. If the jack does not have enough travel length, place block on ground.

Wood blocks must be in good condition to support machine weight.

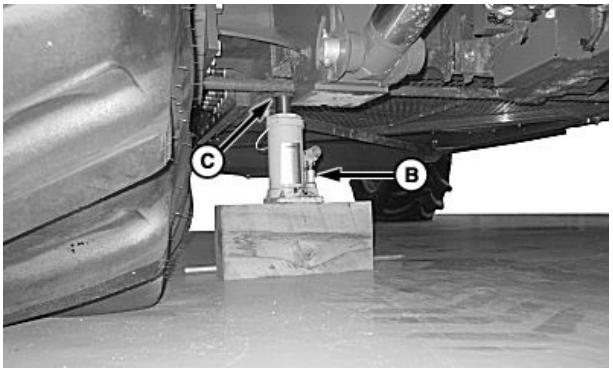
NOTE: Approved jack point locations can be found on decal (A) on the cab ladder.

6. Align jack (B) with the jack point (C) on the front axle and raise machine.

A—Decal
B—Jack
C—Jack Point



H128575 —UN—21JAN20



H127758 —UN—10OCT19

Continued on next page

MH69740,00009BF -19-23NOV20-3/6

CAUTION: To help prevent personal injury caused by unexpected movement of the machine, be sure 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.

Wood blocks must be in good condition to support machine weight.

Be sure that the front axle rests on solid blocking before attempting to remove wheels.

7. Position solid blocking (A) underneath the front axle. Lower machine onto solid blocking, making sure that no load shift is seen or felt.



H127759 —UN—10OCT19

A—Solid Blocking

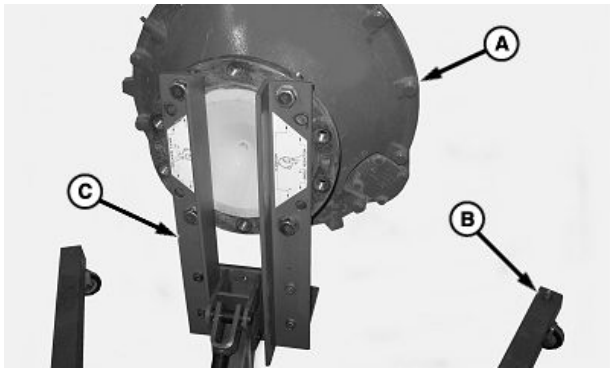
MH69740,00009BF -19-23NOV20-4/6

CAUTION: Final drive assemblies are heavy:

- **High Capacity Planetary Final Drive—383 kg (845 lb):**

  Use specified John Deere service tools when removing final drives. If specified tools are not available, use appropriate lifting device to remove final drive from the machine.

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



H107401 —UN—04APR13

Single Reduction Final Drive Shown

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

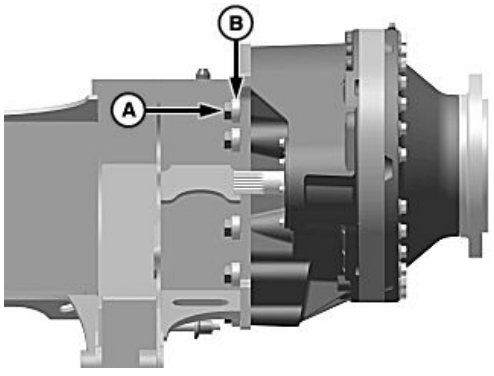
MH69740,00009BF -19-23NOV20-5/6

NOTE: Retain mounting hardware for reinstallation of final drive.

11. Remove bolts (A) and spacers (B) from final drive.
12. Remove final drive from the machine.
13. Repeat steps on the opposite side of the machine.

NOTE: If alignment dowel pins do not come out with final drive, pull them from axle holes and place back in the final drive housing holes.

A—Bolt (7 used)
B—Spacer (7 used)



H128540 —UN—16JAN20

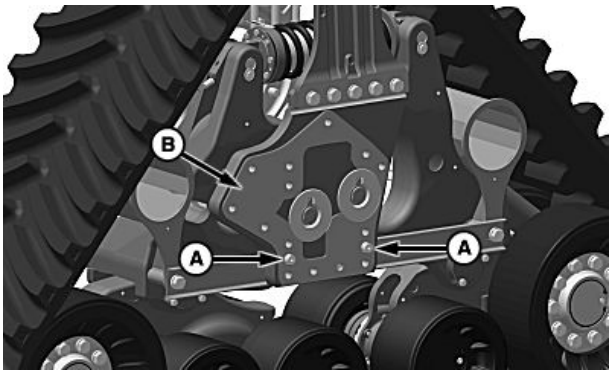
Front View of Final Drive

MH69740,00009BF -19-23NOV20-6/6

Install 76 mm (3 in) Axle Extensions (If Required)

1. Install supplied dowel pins (A) into the track module (B).
2. Apply anti-seize to dowel pins.

A—Dowel Pin (2 used) **B—Track Module**



H129858 —UN—13APR20

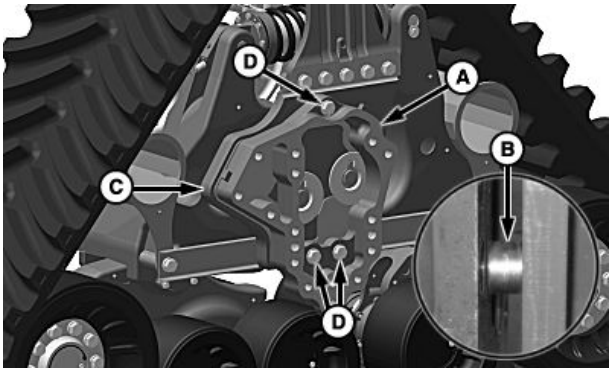
MH69740,00009C0 -19-10JUL20-1/2

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

3. Align supplied axle extension (A) with dowel pins (B) in the track module (C).
4. Install supplied cap screws and washers (D).
5. Tighten cap screws to specification.

Specification	
Cap Screws—Torque (dry)	727 N·m (536 lb·ft)

6. Repeat steps on the opposite side of the machine.



H129859 —UN—13APR20

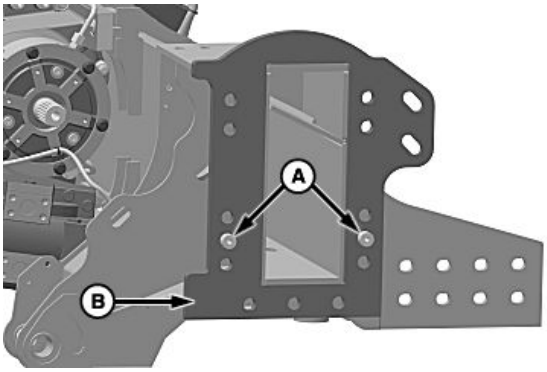
A—Axle Extension
B—Dowel Pin (2 used)
C—Track Module
D—Cap Screw, M24 x 80 (3 used) and Washer, M24 (6 used)

MH69740,00009C0 -19-10JUL20-2/2

Install 405 mm (16 in) Axle Extensions (If Required)

1. Install supplied dowel pins (A) into the axle mainframe (B).
2. Apply anti-seize to dowel pins.

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



H128541 —UN—16JAN20

Continued on next page

MH69740,00009D2 -19-31AUG20-1/2

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

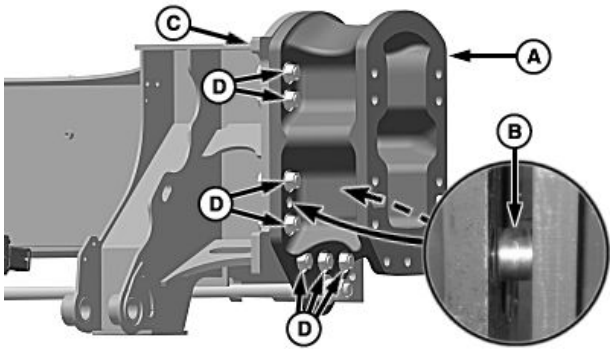
3. Align supplied axle extension (A) with dowel pins (B) in the axle mainframe (C).

IMPORTANT: Washers should be installed on both sides of the cap screws.

4. Install supplied cap screws, washers, and nuts (D).
5. Tighten cap screws to specification.

Specification	
Cap Screws—Torque (dry)	727 N·m (536 lb·ft)

6. Repeat steps on the opposite side of the machine.



H128542 —UN—16JAN20

A—Axle Extension
B—Dowel Pin (2 used)
C—Axle Mainframe
D—Cap Screw, M24 x 80 (14 used), Washer, M24 (28 used), and Nut, M24 (14 used)

MH69740,00009D2 -19-31AUG20-2/2

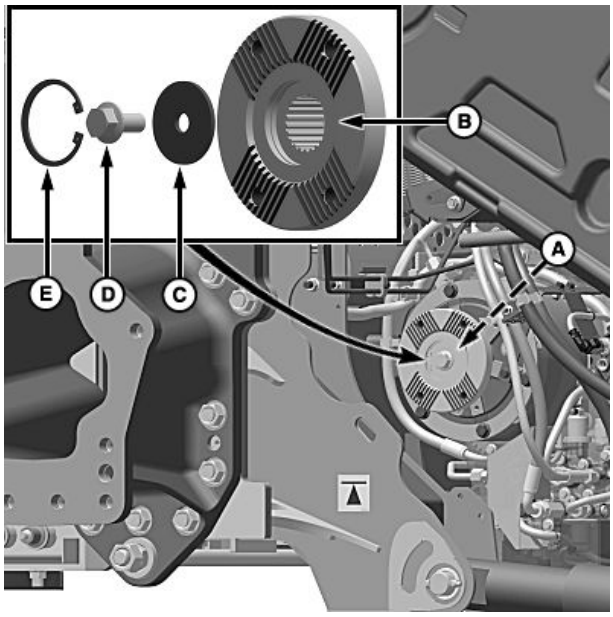
Install Driveshaft Flange

1. Apply anti-seize to the splines on the transmission output shaft (A) and the driveshaft flange (B).
2. Install the supplied driveshaft flange on the transmission output shaft as shown.
3. Install the supplied washer (C), cap screw (D), and snap ring (E).
4. Tighten the cap screw to specification.

Specification	
Cap Screw—Torque	303 N·m (223 lb·ft)

5. Repeat steps on the opposite side of the machine.

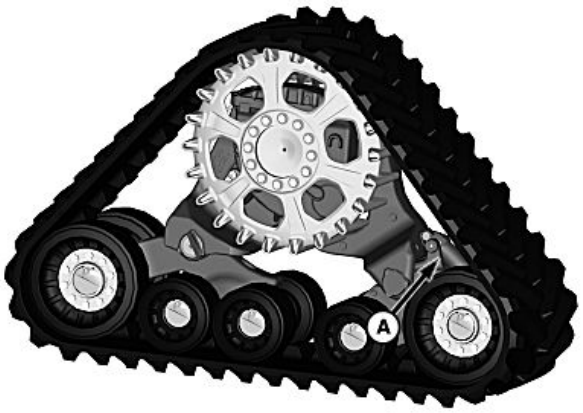
A—Transmission Output Shaft
B—Driveshaft Flange
C—Washer
D—Cap Screw, M16 x 35
E—Snap Ring



H129820 —UN—07APR20

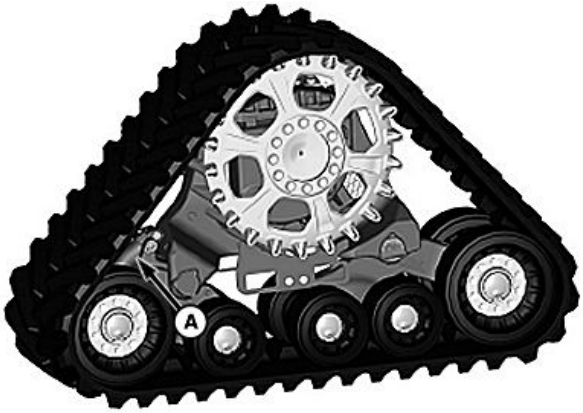
MH69740,00009D1 -19-17SEP20-1/1

Determine Track Module Assemblies



H122164 —UN—08AUG17

Right-Hand Track Module



H122172 —UN—08AUG17

Left-Hand Track Module

A—Tension Cylinder

IMPORTANT: Tension cylinder (A) at the front of the track module MUST be oriented towards the front of machine.

MH69740,00009C2 -19-07APR20-1/1

Install Track Modules

1. Apply anti-seize to the final drive input shaft splines.

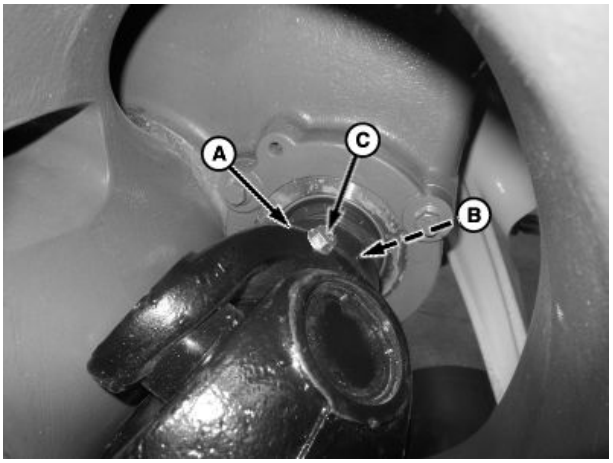
NOTE: Position the hole in the driveshaft yoke vertically to allow clearance for cap screw installation.

2. Align and install the driveshaft yoke (A) onto the track final drive input shaft (B).

CAUTION: Improper installation of the cap screw may result in the driveshaft detaching from the final drive input shaft.

3. Install the supplied cap screw and nut (C).
4. Tighten the cap screw and nut to specification.

Specification	
Cap Screw and Nut—Torque	30 N·m (22 lb·ft)



H122319 —UN—29AUG17

A—Driveshaft Yoke
B—Final Drive Input Shaft
C—Cap Screw, M8 x 110 and Nut, M8

Continued on next page

MH69740,00009C3 -19-17SEP20-1/6

CAUTION: Forklift MUST have a lifting capacity of 3000 kg (6614 lb) to maneuver track module.

Width of forks MUST be less than 152 mm (6 in).

Keep bystanders away while maneuvering track module to machine.

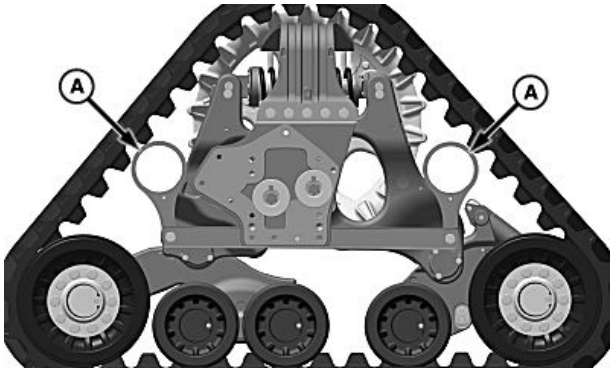
IMPORTANT: Use a spotter from a safe distance to verify proper alignment of forks while forks enter track module.

NOTE: Right-hand side is shown. The left-hand side is similar.

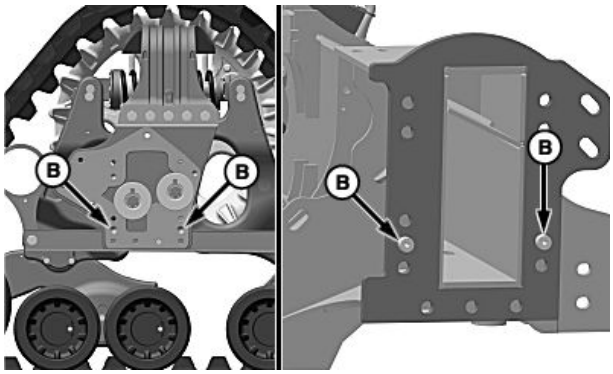
5. Position forklift on the outside of the track module and slide forks through the bracket assembly (A).
6. Apply anti-seize to dowel pins (B).
7. **76 mm (3 in) Axle Extensions Only:** Install supplied dowel pins into the axle mainframe.
8. **405 mm (16 in) Axle Extensions Only:** Install supplied dowel pins into the track module.

NOTE: Depending on the axle extension used, verify that dowel pins remain in the track module or axle extension.

9. Carefully tilt forks back, raise track module, and align track module close to the axle extension.



H129839 —UN—13APR20



H129860 —UN—14APR20

76 mm (3 in)/405 mm (16 in)

A—Bracket Assembly **B—Dowel Pin (2 used)**

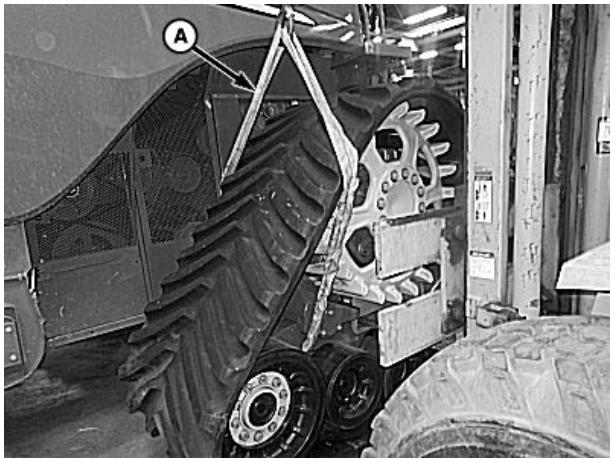
MH69740,00009C3 -19-17SEP20-2/6

10. Install additional adequate lifting device (A) onto the track module as shown.

NOTE: For clearance and adjustment purposes, position the end of the forklift forks closer to the bracket assembly.

11. Slowly raise track module and position it until it contacts axle extension.

A—Lifting Device



H122221 —UN—09AUG17

Continued on next page

MH69740,00009C3 -19-17SEP20-3/6

NOTE: Align only one dowel pin with the mating hole in the axle extension.

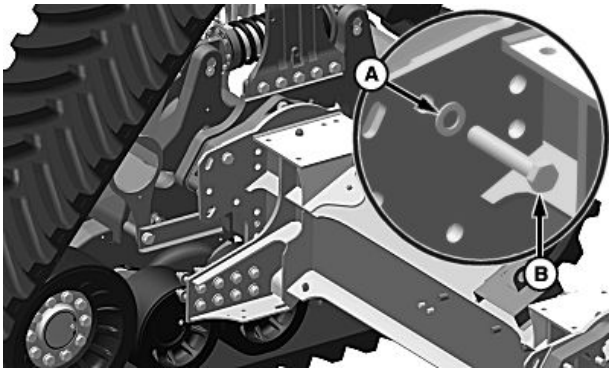
Some force may be required to install large dowel pin to hole in axle extension.

12. Use the forklift and the lifting device (if necessary) to align one large dowel pin on the track module with the mating hole in axle extension.
13. Install supplied spacer (A) and cap screw (B). Do not tighten at this time.

76 mm (3 in) Axle Extension	405 mm (16 in) Axle Extension
Cap Screw, M24 x 140	Cap Screw, M24 x 80

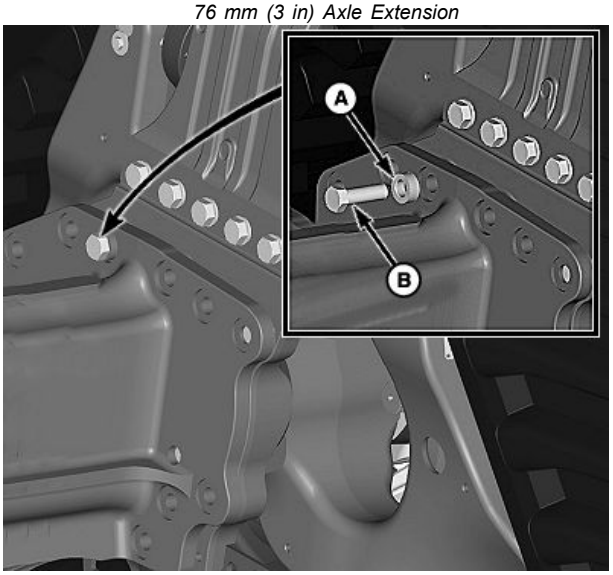
A—Spacer

B—Cap Screw (see table for size)



H129861 —UN—13APR20

76 mm (3 in) Axle Extension



H124463 —UN—13JUN18

405 mm (16 in) Axle Extension

Continued on next page

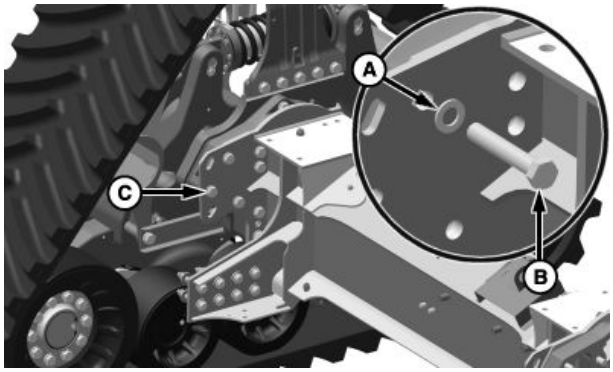
MH69740,00009C3 -19-17SEP20-4/6

NOTE: Some force may be required to install large dowel pin into the hole in axle extension.

14. Using lifting device, align second large dowel pin in the track module with the mating hole.
15. Install supplied spacer (A) and cap screw (B). Do not tighten at this time.
16. Install remaining supplied spacers and cap screws (C).

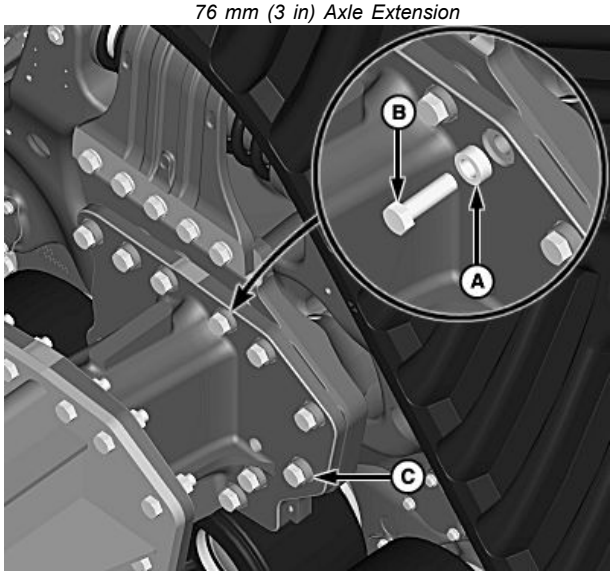
76 mm (3 in) Axle Extension	405 mm (16 in) Axle Extension
B—Cap Screw, M24 x 140	B—Cap Screw, M24 x 80
C—Spacer and Cap Screw, M24 x 140	C—Spacer and Cap Screw, M24 x 80

A—Spacer
B—Cap Screw (see table for size)
C—Spacer and Cap Screw (14 used) (see table for size)



H129862 —UN—13APR20

76 mm (3 in) Axle Extension

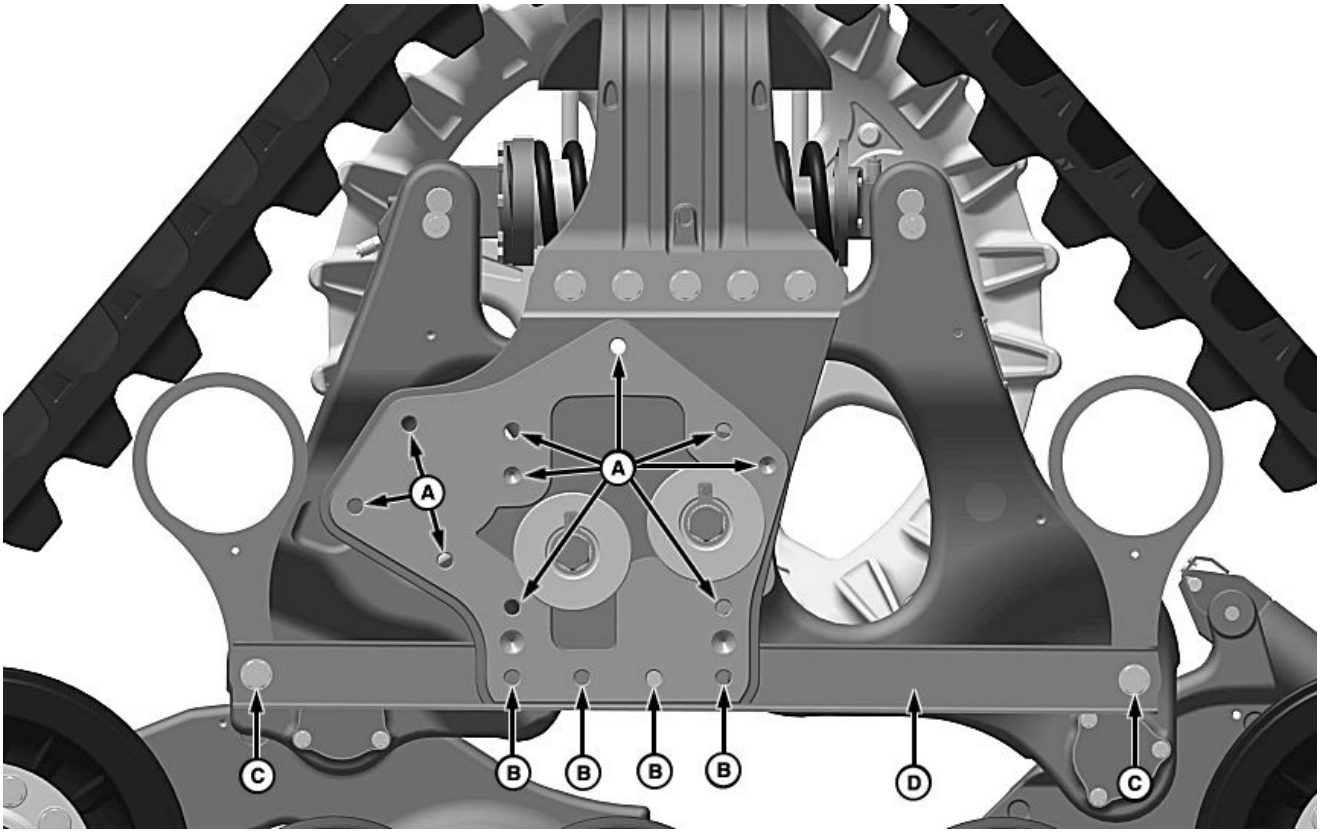


H122896 —UN—11DEC17

405 mm (16 in) Axle Extension

Continued on next page

MH69740,00009C3 -19-17SEP20-5/6



Components Removed for Clarity

A—Cap Screw (10 used) **B—Cap Screw (4 used)** **C—Cap Screw (3 used)** **D—Forklift Bracket**

17. Tighten cap screws (A) to specification. Do not tighten cap screws (B) at this time.

Specification

Cap Screws—Torque (dry).....727 N·m (536 lb·ft)

18. Remove forklift and lifting device from track module.

NOTE: To safely remove, service, or swap out the tracks, the following item must be kept:

- *KEEP the forklift lifting bracket.*

19. Remove cap screws (C) and forklift bracket (D) from the inside of the track module.

20. Remove cap screws and forklift bracket from the outside of the track module.

21. Tighten cap screws (B) to specification.

Specification

Cap Screws—Torque (dry).....727 N·m (536 lb·ft)

22. Repeat steps on the opposite side of the machine.

MH69740,00009C3 -19-17SEP20-6/6

Install Driveshaft

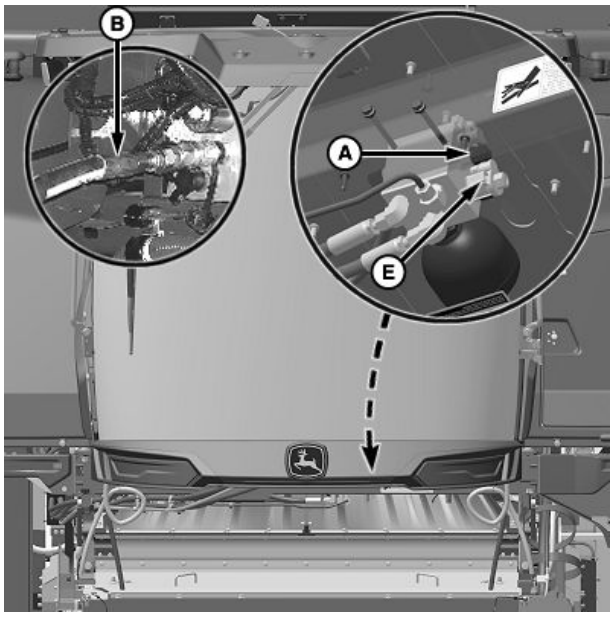
IMPORTANT: The park brake pressure must be released to align the driveshaft onto the previously installed final drive flange. To avoid damage, use Park Brake Release Hand Pump JDG1666.

1. Remove the cap from the diagnostic receptacle (A) on the park brake valve block underneath the cab.
2. Attach the hose (B) from the park brake release hand pump (JDG1666-1 and JDG1666-2) to the diagnostic receptacle.

NOTE: If the wiring harness (JDG11353) supplied with kit (JDG1666) is too short to reach the power supply, follow instructions DFHXT6. See DFHXT6—Park Brake Solenoid Power Lead in the Repair Manual.

3. Attach the jumper harness (C) to the wiring harness (D).
4. Attach the jumper harness (C) to solenoid (E).
5. Attach the wiring harness (D) to the battery.
6. Use the hand pump to pressurize the park brake circuit. Brakes are released with applied pressure above 12 000 kPa (120 bar) (1740 psi).

A—Diagnostic Receptacle
B—Hose
C—Jumper Harness (JDG11237)
D—Wiring Harness (JDG11353)
E—Solenoid



H129810 —UN—08APR20

Park Valve Block



H124150 —UN—06JUN18

MH69740,00009C4 -19-19AUG20-1/3

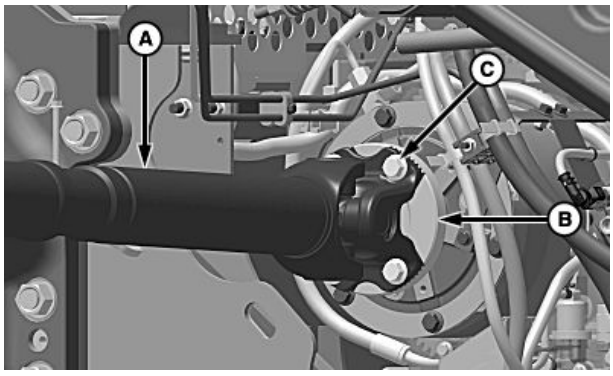
7. Install the driveshaft (A) as shown onto the driveshaft flange (B).

NOTE: The park brake pressure must be released before aligning the driveshaft with the driveshaft flange.

8. Rotate the driveshaft flange so the holes align.
9. Install the supplied cap screws (C).
10. Tighten the cap screws to specification.

Specification	
Cap Screws—Torque (dry)	194 N·m (143 lb·ft)

11. Repeat steps on the opposite side of the machine.



H129819 —UN—07APR20

A—Driveshaft
B—Driveshaft Flange
C—Cap Screw, M14 x 40 (4 used)

Continued on next page

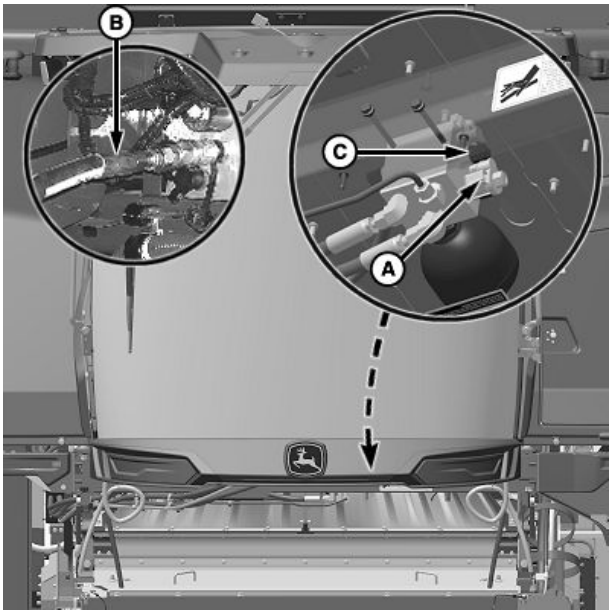
MH69740,00009C4 -19-19AUG20-2/3

12. Remove the wiring harness from the solenoid (A) on the park brake valve block.
13. Remove the hose (B) from the diagnostic receptacle (C) on the park brake valve block.
14. Connect the previously removed machine wiring harness to the solenoid connector on the park brake valve block.

CAUTION: Keep all bystanders away from the machine when using the jack.

15. Raise the machine and remove the solid blocking from underneath the front axle.
16. If equipped with 405 mm (16 in) axle extensions, install the truss rod. Otherwise, see next step.
17. Set the machine on the ground.

A—Solenoid
B—Hose
C—Diagnostic Receptacle

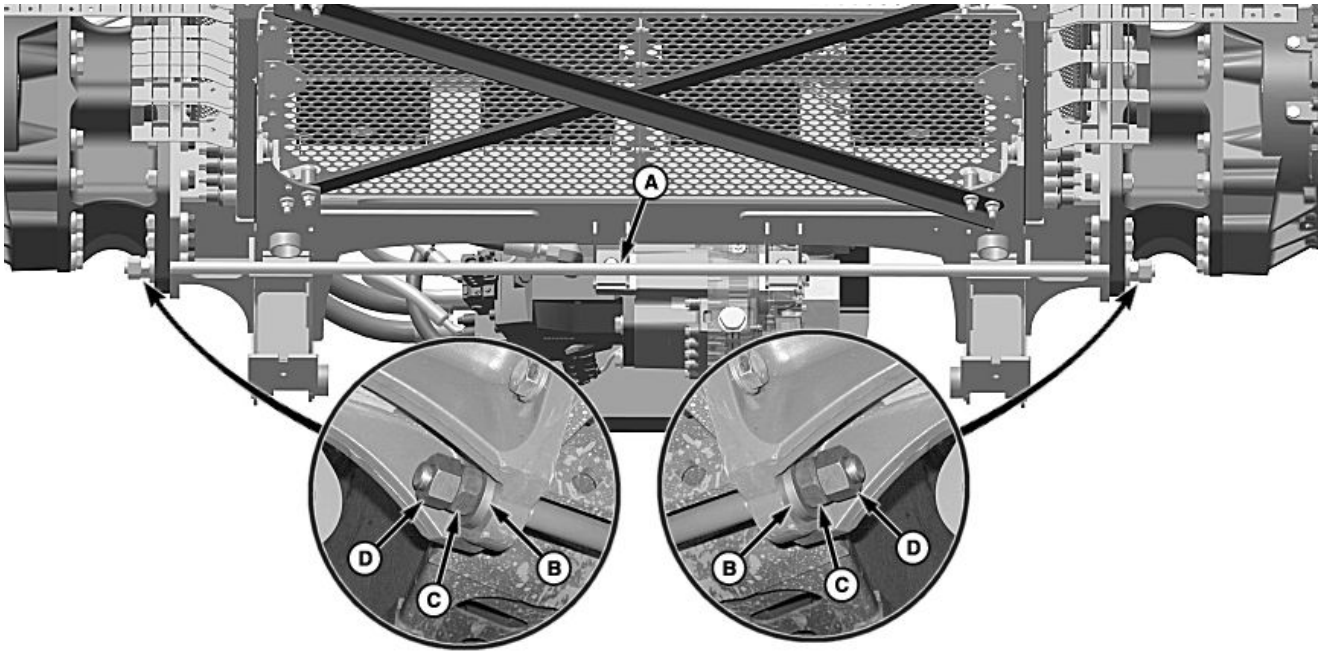


H129811 —UN—06APR20

Park Valve Block

MH69740,00009C4 -19-19AUG20-3/3

Install Truss Rod (405 mm [16 in] Axle Extensions Only) (If Required)



H128544 —UN—16JAN20

A—Truss Rod
B—Cupped Washer (2 used)
C—Inner Nut, M30 (2 used)
D—Outer Nut, M30 (2 used)

NOTE: Truss rod MUST be installed when equipped with 405 mm (16 in) axle extensions.

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

IMPORTANT: Only tighten the outer nut on the truss rod. Tightening the inner nuts pre-tensions the truss rod and can bend the mounting flange plates.

5. Tighten outer nuts to specification.

Specification	
Outer Nut—Torque	620 N·m (457 lb·ft)

MH69740,00009C5 -19-17SEP20-1/1

Change POD Control Unit Address 4053 (Generation 4 CommandCenter™ Display)

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

H113668 —UN—22OCT15



MENU Button

OUO6075,0004ECD -19-09JUL20-1/9

3. Select System tab.

H117732 —UN—17MAR16



System Tab

Continued on next page

OUO6075,0004ECD -19-09JUL20-2/9

4. Select Diagnostics Center button.

H117733 —UN—17MAR16



Diagnostics Center

OUO6075,0004ECD -19-09JUL20-3/9

5. Select Controller Diagnostics tab.

H117734 —UN—17MAR16

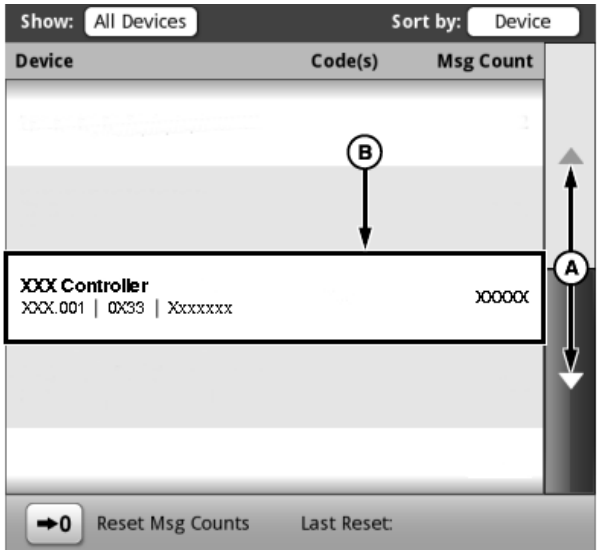


Controller Diagnostics Tab

OUO6075,0004ECD -19-09JUL20-4/9

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

A—Arrows **B—Control Unit**



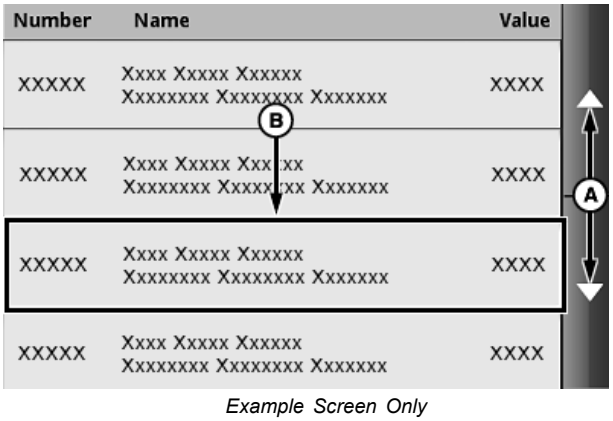
H117945 —UN—29MAR16

Example Screen Only

OUO6075,0004ECD -19-09JUL20-5/9

8. Select up or down arrows (A) to scroll through the address list.
9. Select **address 4053** (B).

A—Arrows **B—Address**



H130152 —UN—04MAY20

Example Screen Only

Continued on next page

OUO6075,0004ECD -19-09JUL20-6/9

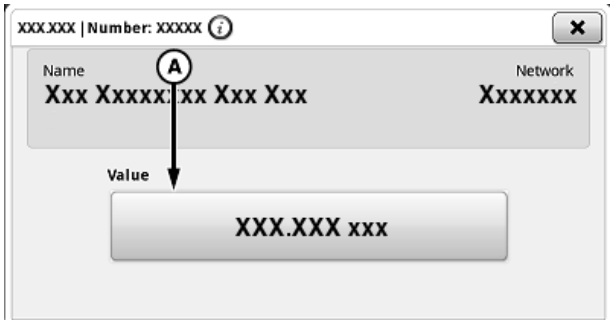
10. Record the address value shown.

    Front Tire Rolling Radius Value:

    _____

11. Select address value (A).

A—Address Value



H130153 —UN—11MAY20

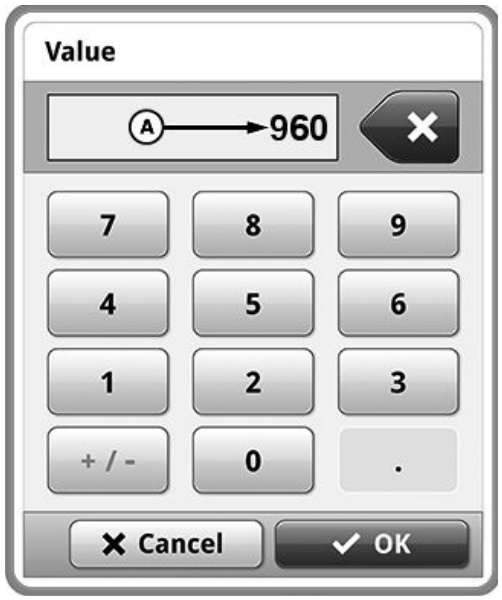
Example Screen Only

OUO6075,0004ECD -19-09JUL20-7/9

NOTE: 960 MUST be entered for the correct rolling radius of the tracks.

12. Change the address value (A) to **960**.
13. Select OK button to save modified value.

A—Address Value



H130743 —UN—09JUL20

Number Pad

OUO6075,0004ECD -19-09JUL20-8/9

14. Select Close button to return to previous Controller page.
15. Select Close button to return to previous Diagnostics Center page.
16. Select Close button to return to previous Menu page.

N118396 —UN—17FEB16



Close Button

17. Select Close button to return to previous Home page.

OUO6075,0004ECD -19-09JUL20-9/9

Track Suspension Cylinder Adjustment

Required equipment:

- 13 500 kPa (135 bar) (1958 psi) hydraulic pressure gauge (precision +- 80 kPa [0.8 bar] [12 psi])
- Lifting jack, minimum capacity of 10 886 kg (24 000 lb)
- 10 000 kPa (100 bar) (1450 psi) nitrogen manifold with pressure gauge (precision +- 25 kPa [0.25 bar] [4.0 psi])
- Nitrogen cylinder with an adjustable pressure regulator that must fit the nitrogen manifold

OUO6075,0004DF8 -19-17SEP20-1/1

Prepare Machine for Track Cylinder Adjustments

- Empty grain tank
- Header attachment removed
- Track system installed on the combine
- Park machine on a flat, level surface

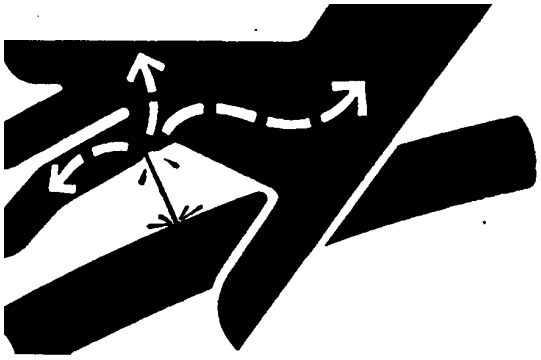
NOTE: Verify that the track system hydraulics are at the original factory settings. For further information, see Suspension Adjustment.

OUO6075,0004DF9 -19-17SEP20-1/1

Install Hydraulic Gauge to the Combine

CAUTION: 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 can result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or another knowledgeable medical source.



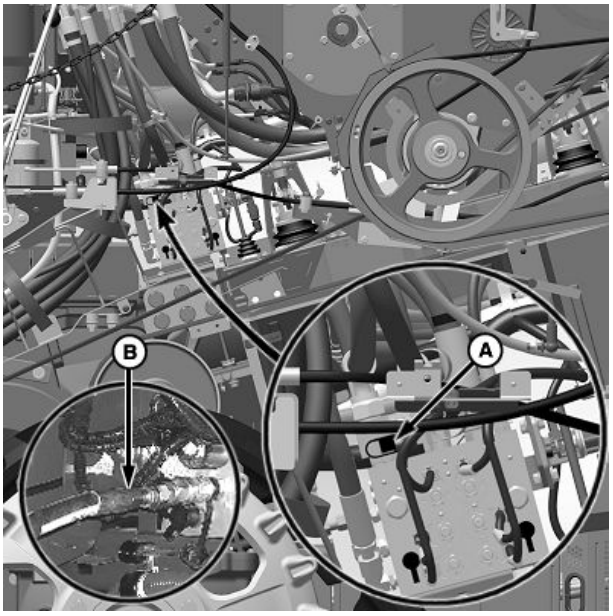
X9811 —UN—23AUG88

1. Open left-hand gull wing door.

OUO6075,0004DFA -19-17SEP20-1/2

2. Remove the cap from the diagnostic receptacle (A) on the primary valve block that is on the left-hand side of the machine.
3. Attach the hydraulic gauge hose (B) to the diagnostic receptacle.

A—Diagnostic Receptacle **B—Hydraulic Gauge Hose**



H129807 —UN—06APR20

Primary Valve Block

OUO6075,0004DFA -19-17SEP20-2/2

Suspension Adjustment

CAUTION: Jack MUST have a minimum lifting capacity of 10 886 kg (24 000 lb).

Do not raise machine at any location other than at the jack points.

Do not place objects between the jack and the jack point. They may cause machine instability. If the jack does not have enough travel length, place block on ground.

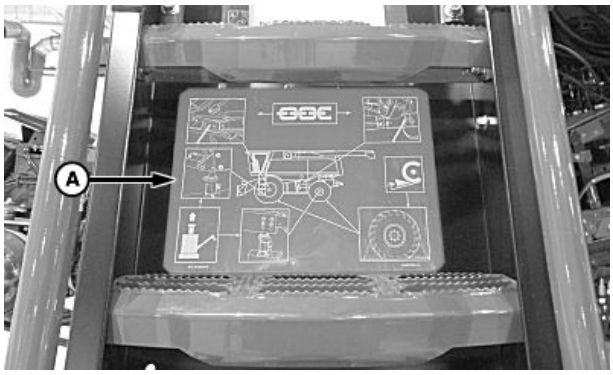
Wood blocks must be in good condition to support machine weight.

IMPORTANT: Set the track tension before adjusting the track suspension.

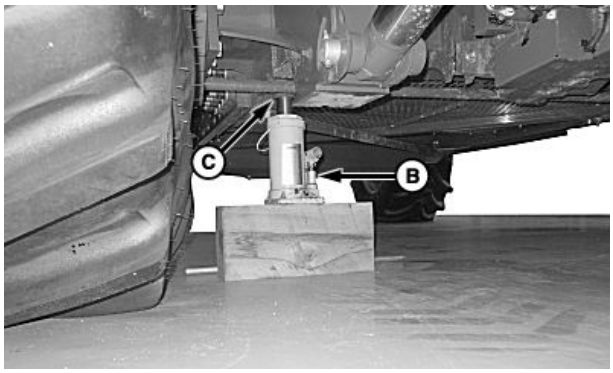
NOTE: Approved jack point locations can be found on decal (A) on the cab ladder.

1. Align jack (B) with the jack point (C) on the front axle and raise machine.

A—Decal
B—Jack
C—Jack Point



H128575 —UN—21JAN20



H127758 —UN—10OCT19

OUO6075,0004DFB -19-24NOV20-1/7

CAUTION: To help prevent personal injury caused by unexpected movement of the machine, be sure 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.

Wood blocks must be in good condition to support machine weight.

Be sure that the front axle rests on solid blocking before attempting to remove wheels.

2. Position solid blocking (A) underneath the front axle. Lower machine onto solid blocking, making sure that no load shift is seen or felt.



H127759 —UN—10OCT19

A—Solid Blocking

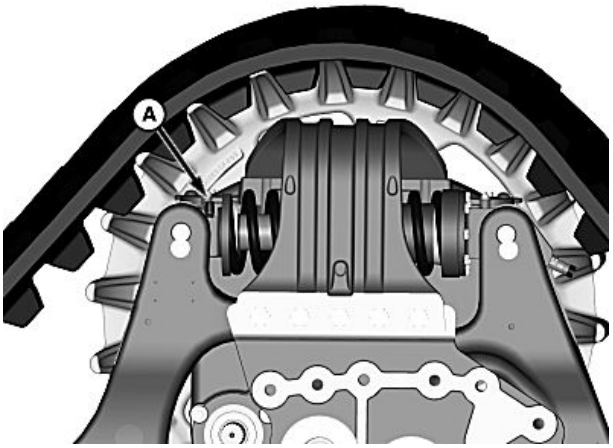
Continued on next page

OUO6075,0004DFB -19-24NOV20-2/7

CAUTION: It is critical to leave both the oil and nitrogen fittings connected until instructed to remove them.

3. Remove the dust cap from the suspension cylinder nitrogen fitting (A) and connect the nitrogen hose fitting to the cylinder fitting.

A—Nitrogen Fitting

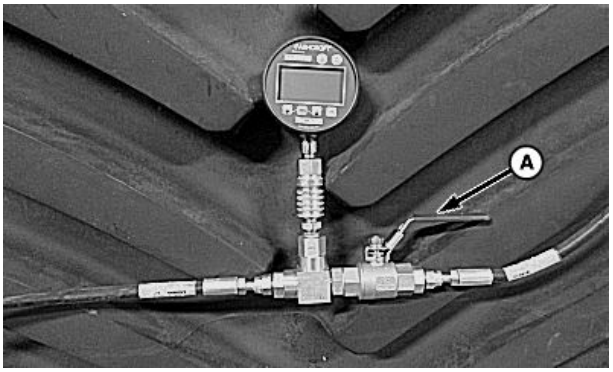


H122523 —UN—28SEP17

OUO6075,0004DFB -19-24NOV20-3/7

4. Slowly open the hydraulic valve (A) to release oil back to the hydraulic oil reservoir.

A—Hydraulic Valve

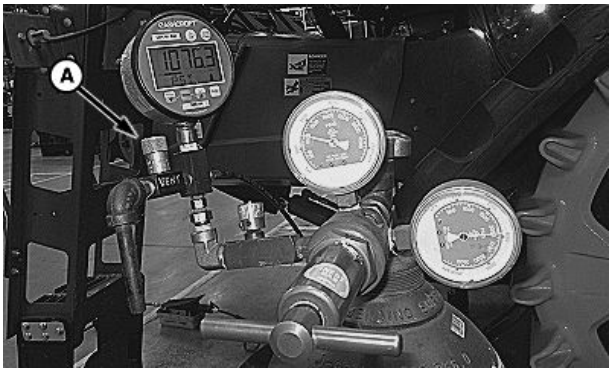


H122638 —UN—29NOV17

OUO6075,0004DFB -19-24NOV20-4/7

5. Using the nitrogen charge kit (A), pressurize the suspension cylinder with nitrogen to approximately 8000 kPa (80 bar) (1160 psi).
6. Add or remove nitrogen as needed until the stabilized pressure matches the required value (about 2 minutes) (precision +- 20 kPa [0.2 bar] [2.9 psi]).

A—Nitrogen Charge Kit



H122641 —UN—18OCT17

Continued on next page

OUO6075,0004DFB -19-24NOV20-5/7

NOTE: Two people are required to pressurize the track module.

7. Sound horn and start the engine.
8. Verify that valve on the oil line is still open.
9. One person needs to press the left or right side of the header raise/lower button on the multi-function lever. Pressing the left or right side of the header raise/lower button pressurizes the system.

NOTE: The cylinder pressurizes to 20 684 kPa (207 bar) (3000 psi).

10. Close the oil fill line valve.
11. Shut off engine and remove ignition key.
12. Open the service hose valve slowly until the correct hydraulic pressure is reached. Use the table according to the ambient temperature.
13. Close valve on oil fill line once correct oil pressure value is reached.

H116348 —UN—19DEC16



Header Raise/Lower Button

14. Allow the pressure to stabilize and verify that it matches the required value from the table.
15. If too much oil is released, repressurize the cylinder and repeat steps 8—14.
16. Remove the nitrogen charge fitting from the suspension cylinder and install the dust cap.
17. Remove the hydraulic service hose from the suspension cylinder and install the dust cap.
18. Repeat on the opposite side of the machine.

Ambient Temperature		Left-Hand Track					
		kPa		bar		psi	
°C	°F	Oil	Nitrogen	Oil	Nitrogen	Oil	Nitrogen
-10	14	2650	2520	26.5	25.2	384	366
-5	23	2700	2570	27.0	25.7	391	373
0	32	2750	2620	27.5	26.2	398	380
5	41	2800	2670	28.0	26.7	406	387
10	50	2850	2710	28.5	27.1	413	394
15	59	2900	2760	29.0	27.6	420	401
20	68	2950	2810	29.5	28.1	428	408
25	77	3000	2860	30.0	28.6	435	415
30	86	3050	2910	30.5	29.1	442	421
35	95	3100	2950	31.0	29.5	450	428
40	104	3150	3000	31.5	30.0	457	435

Ambient Temperature		Right-Hand Track					
		kPa		bar		psi	
°C	°F	Oil	Nitrogen	Oil	Nitrogen	Oil	Nitrogen
-10	14	2040	1920	20.4	19.2	296	279
-5	23	2080	1960	20.8	19.6	301	284
0	32	2120	2000	21.2	20.0	307	290
5	41	2160	2030	21.6	20.3	313	295
10	50	2190	2070	21.9	20.7	318	300
15	59	2230	2110	22.3	21.1	324	305
20	68	2270	2140	22.7	21.4	330	311
25	77	2310	2180	23.1	21.8	335	316
30	86	2350	2220	23.5	22.2	341	321
35	95	2390	2250	23.9	22.5	346	327
40	104	2470	2290	24.7	22.9	352	332

Continued on next page

OUO6075,0004DFB -19-24NOV20-6/7

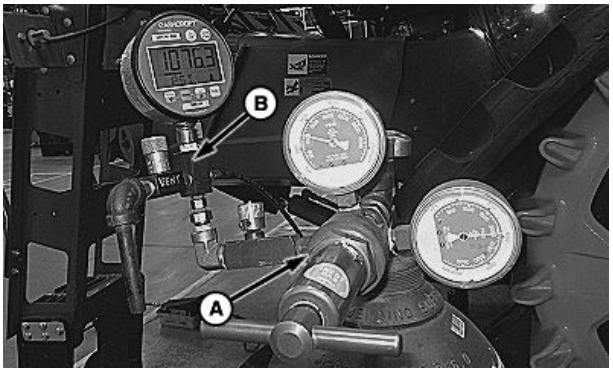
OUO6075,0004DFB -19-24NOV20-7/7

Set the Track Tension

IMPORTANT: A digital gauge MUST be used to set the oil pressure. The digital gauge reacts quicker and is more precise.

1. Use a regulator-equipped nitrogen tank (A) that is also equipped with a nitrogen charge kit (B).

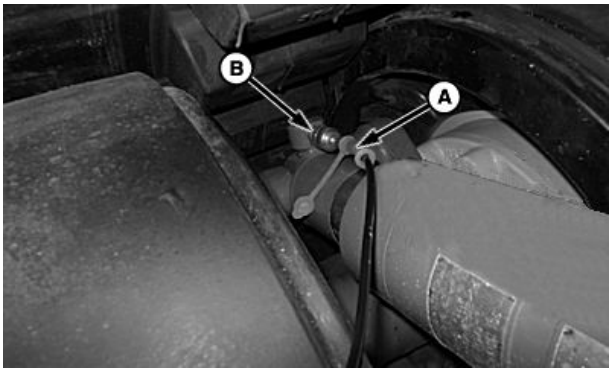
A—Regulator-Equipped Nitrogen Tank **B—Nitrogen Charge Kit**



H122629 —UN—18OCT17

OUO6075,0004DFC -19-17SEP20-1/3

2. Remove the tension cylinder dust cap and connect the nitrogen charge fitting (A) to the cylinder fitting (B).
3. Pressurize the accumulator with nitrogen to the required value. Use the table according to the ambient temperature.



H122630 —UN—31OCT17

A—Charge Fitting **B—Cylinder Fitting**

Ambient Temperature		kPa		bar		psi	
°C	°F	Oil	Nitrogen	Oil	Nitrogen	Oil	Nitrogen
-10	14	7970	6660	79.7	66.6	1155	965
-5	23	8150	6780	81.5	67.8	1181	984
0	32	8330	6910	83.3	69.1	1207	1002
5	41	8510	7040	85.1	70.4	1234	1021
10	50	8690	7170	86.9	71.7	1260	1039
15	59	8880	7300	88.8	73.0	1287	1058
20	68	9060	7420	90.6	74.2	1314	1076
25	77	9250	7550	92.5	75.5	1341	1094
30	86	9430	7680	94.3	76.8	1368	1113
35	95	9620	7800	96.2	78.0	1395	1131
40	104	9810	7930	98.1	79.3	1423	1149

4. Allow the nitrogen pressure to stabilize to the required value.
5. Add or remove nitrogen as needed until the stabilized pressure matches the required value.

Continued on next page

OUO6075,0004DFC -19-17SEP20-2/3

NOTE: Two people are required to pressurize the track module.

6. Sound horn and start the engine.
7. One person needs to press the left or right side of the header raise/lower button on the multi-function lever. Pressing the left or right side of the header raise/lower button pressurizes the system.

NOTE: The cylinder pressurizes to 20 684 kPa (207 bar) (3000 psi).

8. Close the oil fill line valve.
9. Shut off engine and remove ignition key.

NOTE: Use the nitrogen gauge to monitor the pressure, as it is more precise.

10. Open the service hose valve slowly until the correct hydraulic pressure is reached according to the table.
11. Allow the pressure to stabilize and verify that it matches the required value from the table.

H116348 —UN—19DEC16

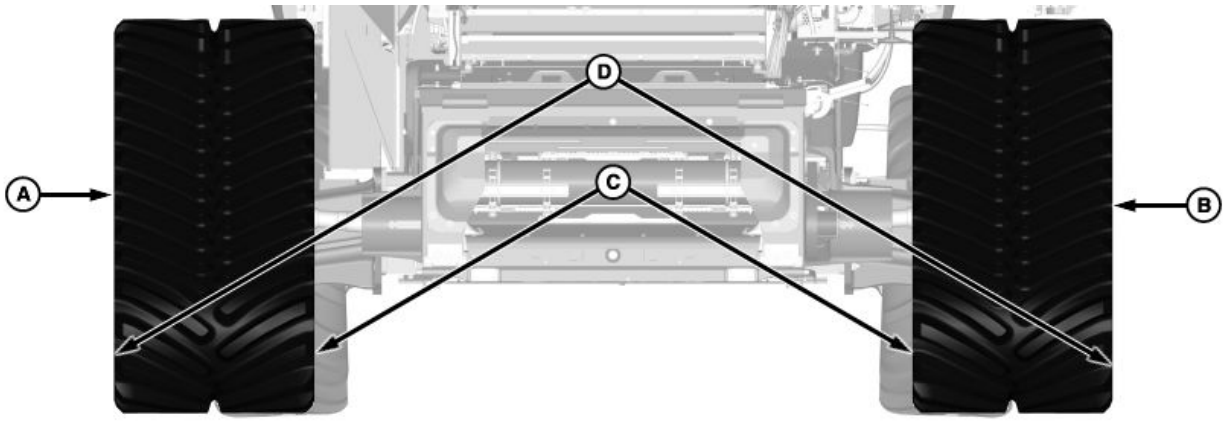


Header Raise/Lower Button

12. If too much oil is released, repressurize the cylinder and repeat steps 7—11.
13. Remove the nitrogen charge fitting from the tension cylinder and install the dust cap.
14. Remove the hydraulic gauge fitting from the tension cylinder and install the dust cap.
15. Repeat on the opposite side of the machine.

OUO6075,0004DFC -19-17SEP20-3/3

Track Alignment Introduction



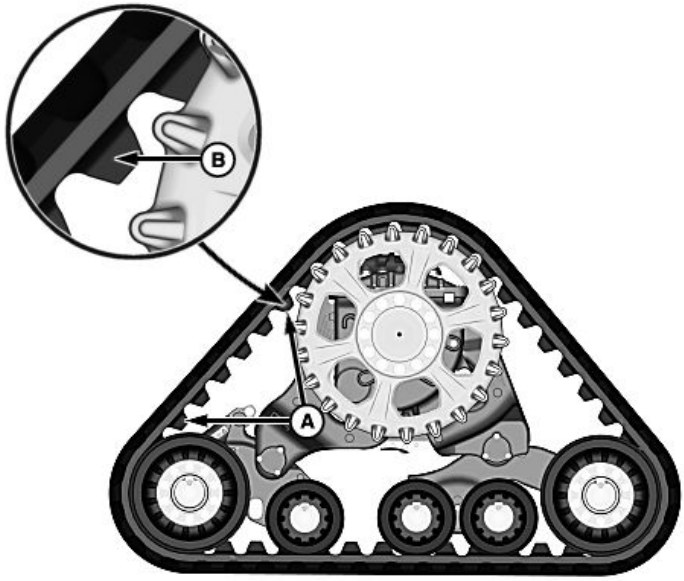
H122855 —UN—06DEC17

A—Right-Hand Track Module **B—Left-Hand Track Module** **C—Inside of Track Module** **D—Outside of Track Module**

- Track alignment is required to reduce the wear of the track module belt drive lugs.
- The adjustment procedure consists of verifying the drive lug temperature and movement after several runs of road operation.
- Ambient temperature and weather conditions have an impact on the results. For this reason, it is ideal to perform adjustments on a dry day.
- The straighter the road, the more accurate the results.
- Record the temperature values for each run on the Track Alignment Table.

MH69740,00009C7 -19-17SEP20-1/1

Track Alignment — Drive Lug Temperature Measurement





H122858 —UN—07DEC17

A—Location (2 used)

B—Drive Lug
C—Distance, 15 cm (6 in)

- Drive lug temperature measurements should be taken on the front of the track modules at locations (A).
- Drive lug measurements must be taken at the center of the drive lugs (B).
- The infrared temperature measurement tool should be positioned at approximate distance (C) from the drive lug surface (B) while collecting temperature measurements.

Continued on next page

MH69740,00009C8 -19-17SEP20-1/2

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.

IMPORTANT: Verify with the infrared sensor manual that the temperature measurement is taken at the correct distance from the drive lug surface.

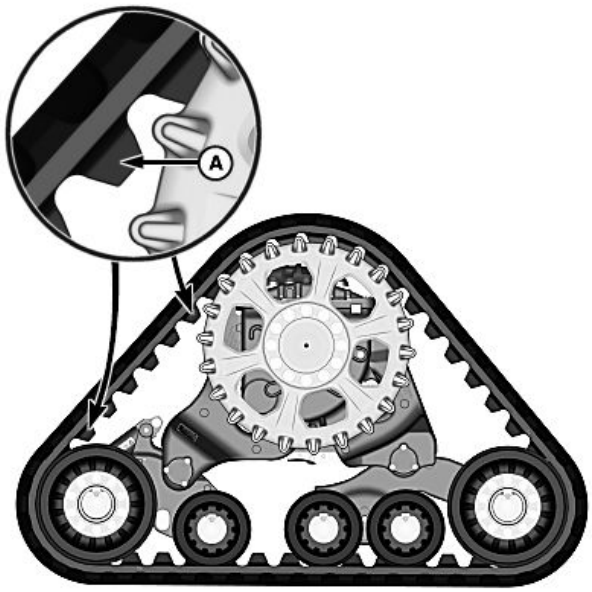
NOTE: The temperature measurement must be performed within 5 minutes after stopping the machine.

The temperature measurement must be performed on the inside and outside of both track modules.

1. Shut OFF engine, set park brake, and remove key.
2. On the outside surface of the left-hand track module, aim the infrared sensor the correct distance from the center of drive lug surface (A).
3. Scan the surface of the drive lug for several seconds and record the highest temperature value on the Track Alignment Table.
4. Scan the surface of the second drive lug for several seconds and record the highest temperature value on the Track Alignment Table.

NOTE: If the two measurements differ by more than 5°, measure a third drive lug.

5. Repeat steps as needed for the inside surface on the left-hand drive lugs.



H122856 —UN—06DEC17

Left-Hand Track Module Shown

A—Drive Lug Surface

6. Repeat for the outside and inside surfaces on the right-hand track module.

MH69740,00009C8 -19-17SEP20-2/2

Track Alignment — Optimization Procedure

1. Apply dry lubricant to both track modules before starting the procedure.
2. Run the combine for 4—7 km (2.5— 4.3 mi) at road transport speed on a flat, straight, paved road whenever possible.
3. Measure inside and outside drive lug temperatures on both tracks. Refer to Track Alignment Table for more information.
   a. If the difference between the inside of the lug and the outside of the lug is less than 20°C (36°F), the track is within target temperature range. Apply dry lubricant, then run the machine another 4—7 km (2.5—4.3 mi) at road transport speed on a flat, straight, paved road to verify the lug temperature.
   b. If the difference between the inside of the lug and the outside of the lug is greater than 20°C (36°F), turn the applicable track module set screw one full turn clockwise, as demonstrated in Track Alignment — Adjust the Outside Tracking Cap Screw Clockwise section. Once adjusted, apply dry lubricant and run the machine another 4—7 km (2.5—4.3 mi) at road transport speed on a flat, straight, paved road to verify the lug temperature.
4. After completing the second run, remeasure the drive lug temperatures. If the difference in lug temperature is below the new target of 30°C (54°F), no further action is required.
   a. If temperature difference has decreased but is still greater than 30°C (54°F), continue with adjustments. As the temperature differences become closer to 30°C (54°F), the adjustments will need to be smaller. Once adjusted, apply dry lubricant and run the machine another 4—7 km (2.5—4.3 mi) at road transport speed on a flat, straight, paved road to verify the lug temperature.
   b. If the opposite drive lug side is at a higher temperature, reverse the adjustment previously made and then turn the set screw one full turn counterclockwise. Once adjusted, apply dry lubricant and run the machine another 4—7 km (2.5—4.3 mi) at road transport speed on a flat, straight, paved road to verify the lug temperature.
5. Continue this effort until both right and left track models have a drive lug temperature difference of less than 30°C (54°F).

NOTE: Do not make set screw adjustments greater than two full turns in either direction from delivered setting.

Refer to Dealer Technical Assistance Center (DTAC) solution 113131 for further information on additional alignment instructions or if target lug temperature cannot be obtained.

6. Verify torque on the drive sprocket attaching bolts after track alignment procedure is complete.

Specification	
Drive Sprocket Attaching Bolts—Torque	727 N·m (536 lb·ft)

Verify torque on the driveshaft-to-flange coupler attaching bolts after track alignment procedure is complete.

Specification	
Driveshaft-to-Flange Coupler Attaching Bolts—Torque	194 N·m (143 lb·ft)

MH69740,0000A60 -19-16JUN21-1/1

Track Alignment Table

Run Number

	4—7 km (2.5—4.3 mi)	
	Max °C or °F	**Delta °C or °F**
A: Temperature: Right-hand side inside surface		A - B=
B: Temperature: Right-hand side outside surface		
C: Temperature: Left-hand side inside surface		C - D=
D: Temperature: Left-hand side outside surface		
	Belt alignment needs to be adjusted prior to any further runs if the temperature exceeds 90°C (194°F). Add a generous amount of talc (or dry soil) if lug temperature approaches/exceeds 90°C (194°F).	
Notes:		

Run Number

	4—7 km (2.5—4.3 mi)	
	Max °C or °F	**Delta °C or °F**
A: Temperature: Right-hand side inside surface		A - B=
B: Temperature: Right-hand side outside surface		
C: Temperature: Left-hand side inside surface		C - D=
D: Temperature: Left-hand side outside surface		
	Belt alignment needs to be adjusted prior to any further runs if the temperature exceeds 90°C (194°F). Add a generous amount of talc (or dry soil) if lug temperature approaches/exceeds 90°C (194°F).	
Notes:		

Run Number

	4—7 km (2.5—4.3 mi)	
	Max °C or °F	**Delta °C or °F**
A: Temperature: Right-hand side inside surface		A - B=
B: Temperature: Right-hand side outside surface		
C: Temperature: Left-hand side inside surface		C - D=
D: Temperature: Left-hand side outside surface		
	Belt alignment needs to be adjusted prior to any further runs if the temperature exceeds 90°C (194°F). Add a generous amount of talc (or dry soil) if lug temperature approaches/exceeds 90°C (194°F).	
Notes:		

MH69740,00009CA -19-30MAR20-1/1

Track Alignment — Adjust the Outside Tracking Cap Screw Clockwise

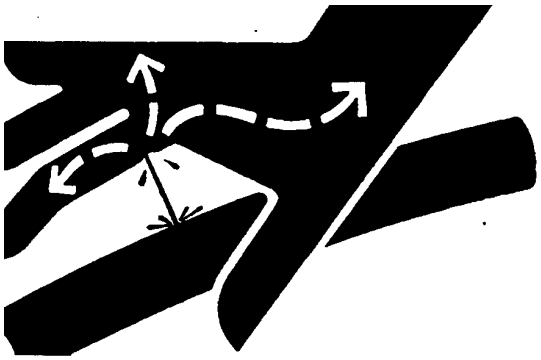
NOTE: This procedure is for **clockwise** *adjustments. For more information on counterclockwise adjustments, see Track Alignment — Adjust the Outside Tracking Cap Screw Counterclockwise.*

Left-hand track module is shown. The right-hand track module is similar.

All mechanism adjustments refer to the outside and inside of the track module.

Refer to Track Alignment — Optimization Procedure for required adjustments.

Before making mechanism adjustments, the tension on the track belts MUST be relieved. In order to relieve the tension from the tracks, the included hydraulic service hose (AXE71802) must be used. A hydraulic gauge must be installed on the service hose as well. See the following steps to relieve the tension from the tracks.



X9811 —UN—23AUG88

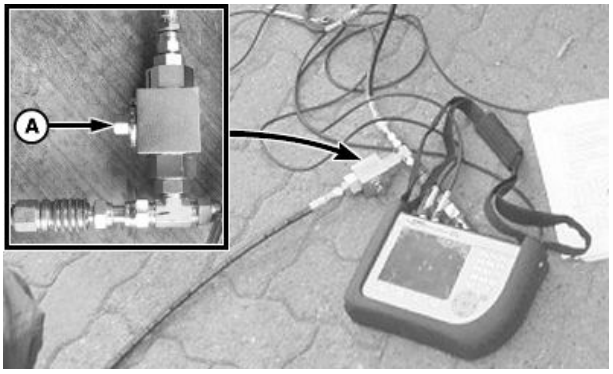
1. Park machine on a flat, level surface.

MH69740,00009CB -19-17SEP20-1/8

CAUTION: 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 can result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or another knowledgeable medical source.

2. Verify that the valve (A) is in the closed position.



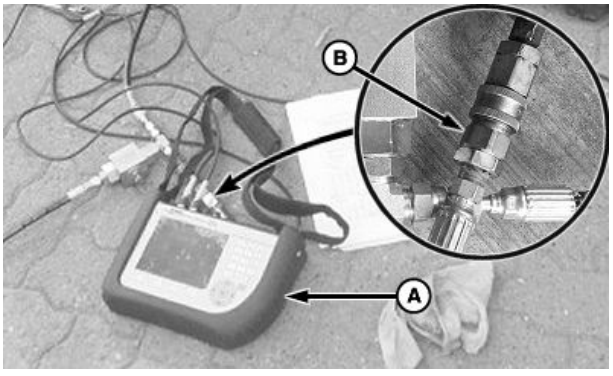
H129805 —UN—06APR20

A—Valve

MH69740,00009CB -19-17SEP20-2/8

3. Attach digital pressure gauge (A) to the open end of the service hose (B).

A—Digital Pressure Gauge **B—Service Hose**



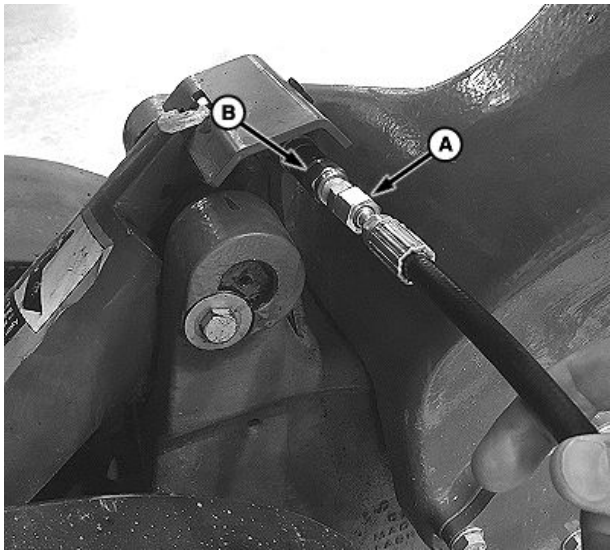
H128243 —UN—08JAN20

Continued on next page

MH69740,00009CB -19-17SEP20-3/8

4. Attach hydraulic hose assembly (A) to the tension cylinder fitting (B).

A—Hydraulic Hose Assembly **B—Tension Cylinder Fitting**

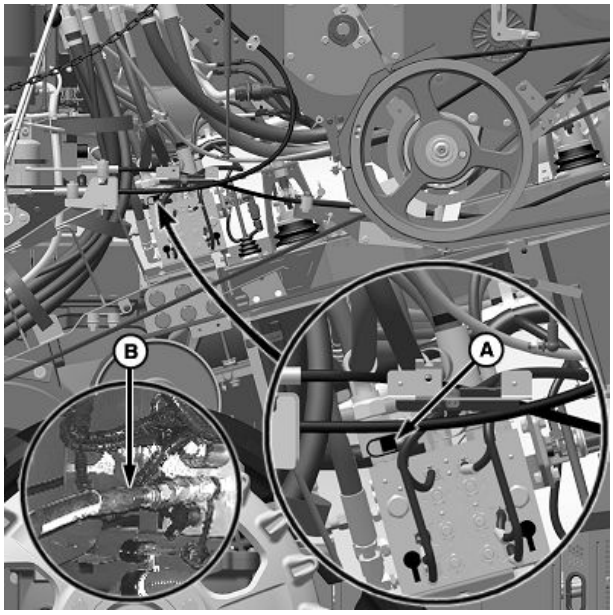


H124628 —UN—09JUL18

MH69740,00009CB -19-17SEP20-4/8

5. Remove the cap from the diagnostic receptacle (A) on the primary valve block that is on the left-hand side of the machine.
6. Attach the hydraulic gauge hose (B) to the diagnostic receptacle.

A—Diagnostic Receptacle **B—Hydraulic Gauge Hose**



H129807 —UN—06APR20

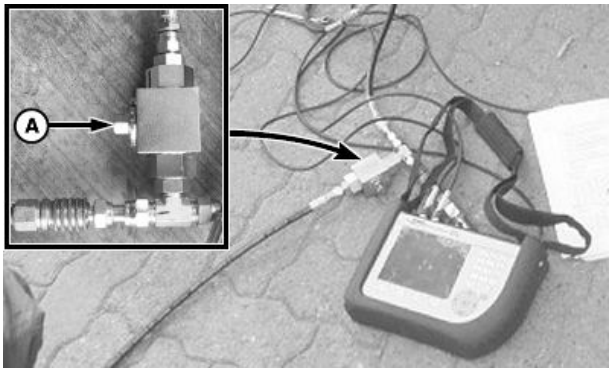
Primary Valve Block

Continued on next page

MH69740,00009CB -19-17SEP20-5/8

7. Slowly open previously installed valve (A) to relieve pressure from the track.
8. Once the pressure is relieved from the track, proceed to the mechanism adjustments.

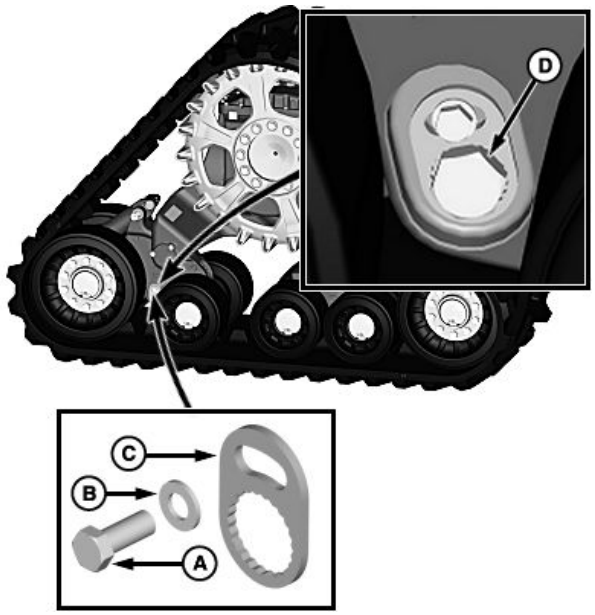
A—Valve



H129805 —UN—06APR20

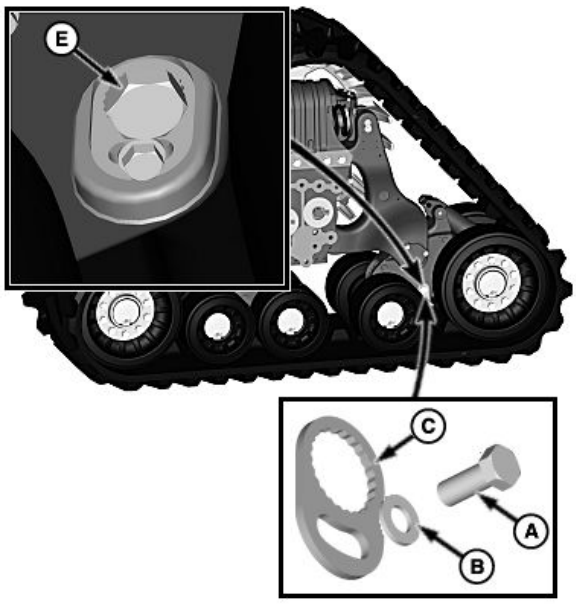
Continued on next page

MH69740,00009CB -19-17SEP20-6/8



H123876 —UN—28MAR18

Outside Shown



H123877 —UN—28MAR18

Inside Shown

A—Cap Screw (2 used)
B—Washer (2 used)
C—Lock Washer (2 used)
D—Outside Tracking Cap Screw
E—Inside Tracking Cap Screw

9. Remove cap screws (A), washers (B), and lock washers (C) from outside and inside of the track module.

NOTE: If adjustment of the outside tracking cap screw (D) is required, adjustment of the inside tracking cap screw (E) is required for clearance.

Example: If two adjustment turns are required on the outside tracking cap screw, more than two turns are required on the inside tracking cap screw.

10. Adjust inside tracking cap screw (E) counterclockwise with more turns than the outside tracking cap screw adjustment.
11. Turn the outside tracking cap screw (D) clockwise the required number of turns.
12. Secure the outside tracking cap screw (D) with the previously removed lock washer (C), washer (B), and cap screw (A).
13. Tighten cap screw (A) to specification.

Specification

Cap Screw—Torque ..... 128 N·m (94 lb·ft)

14. Tighten the inside tracking cap screw (E) to specification.

Specification

Inside Tracking Cap Screw—Torque ..... 90 N·m (66 lb·ft)

15. Secure the inside tracking cap screw with the previously removed lock washer (C), washer (B), and cap screw (A).
16. Tighten cap screw (A) to specification.

Specification

Cap Screw—Torque ..... 128 N·m (94 lb·ft)

Continued on next page

MH69740,00009CB -19-17SEP20-7/8

NOTE: Two people are required to pressurize the track module.

17. One person needs to press the header raise/lower button on the multi-function lever. The raise button pressurizes the system and the track tension cylinder.
18. Pressurize the tension cylinder according to the ambient temperature (see table). Close the valve on the oil fill hose before releasing the pressure in the cab.
19. If overpressurized, slowly release oil until the required oil pressure for the ambient temperature is obtained (see table).
20. If too much oil is released, repressurize the cylinder by referring to step 17.

H116348 —UN—19DEC16



Header Raise/Lower Button

21. Disconnect the hydraulic hose assembly from the tension cylinder and valve block. Install the dust caps.
22. Repeat steps for the right-hand tracking module.

Ambient Temperature		kPa		bar		psi	
°C	°F	Oil	Nitrogen	Oil	Nitrogen	Oil	Nitrogen
-10	14	7970	6660	79.7	66.6	1155	965
-5	23	8150	6780	81.5	67.8	1181	984
0	32	8330	6910	83.3	69.1	1207	1002
5	41	8510	7040	85.1	70.4	1234	1021
10	50	8690	7170	86.9	71.7	1260	1039
15	59	8880	7300	88.8	73.0	1287	1058
20	68	9060	7420	90.6	74.2	1314	1076
25	77	9250	7550	92.5	75.5	1341	1094
30	86	9430	7680	94.3	76.8	1368	1113
35	95	9620	7800	96.2	78.0	1395	1131
40	104	9810	7930	98.1	79.3	1423	1149

MH69740,00009CB -19-17SEP20-8/8

Track Alignment — Adjust the Outside Tracking Cap Screw Counterclockwise

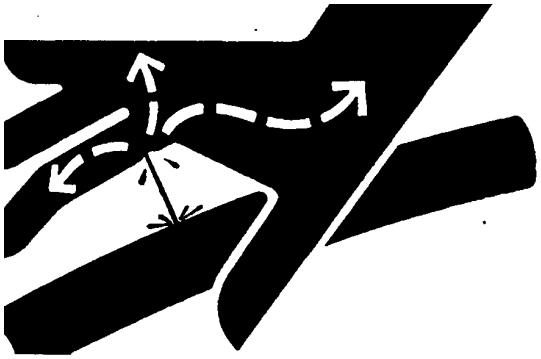
NOTE: This procedure is for **counterclockwise** *adjustments. For more information on clockwise adjustments, see Track Alignment — Adjust the Outside Tracking Cap Screw Clockwise.*

Left-hand track module is shown. The right-hand track module is similar.

All mechanism adjustments refer to the outside and inside of the track module.

Refer to Track Alignment — Optimization Procedure for required adjustments.

Before making mechanism adjustments, the tension on the track belts MUST be relieved. In order to relieve the tension from the tracks, the included hydraulic service hose (AXE71802) must be used. A hydraulic gauge must be installed on the service hose as well. See the following steps to relieve the tension from the tracks.



X9811 —UN—23AUG88

1. Park machine on a flat, level surface.

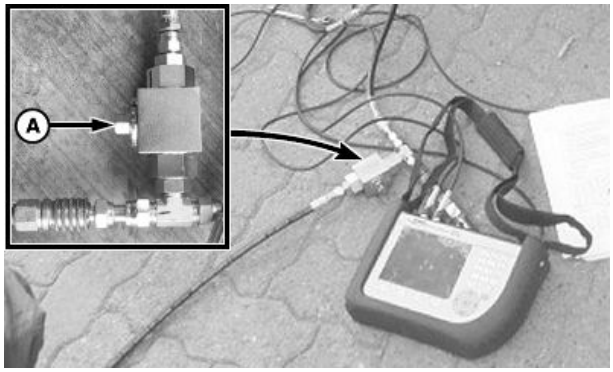
Continued on next page

MH69740,00009CC -19-17SEP20-1/8

CAUTION: 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 can result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or another knowledgeable medical source.

2. Verify that the valve (A) is in the closed position.



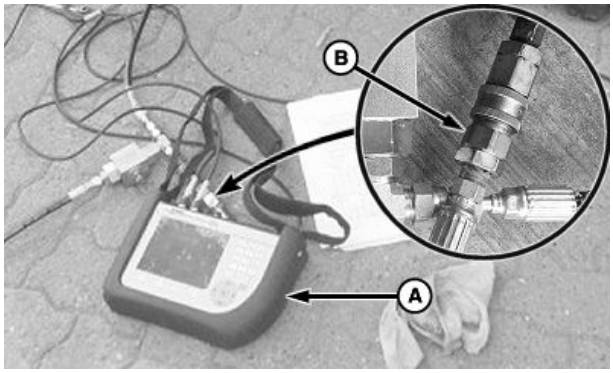
H129805 —UN—06APR20

A—Valve

MH69740,00009CC -19-17SEP20-2/8

3. Attach digital pressure gauge (A) to the open end of the service hose (B).

A—Digital Pressure Gauge **B—Service Hose**

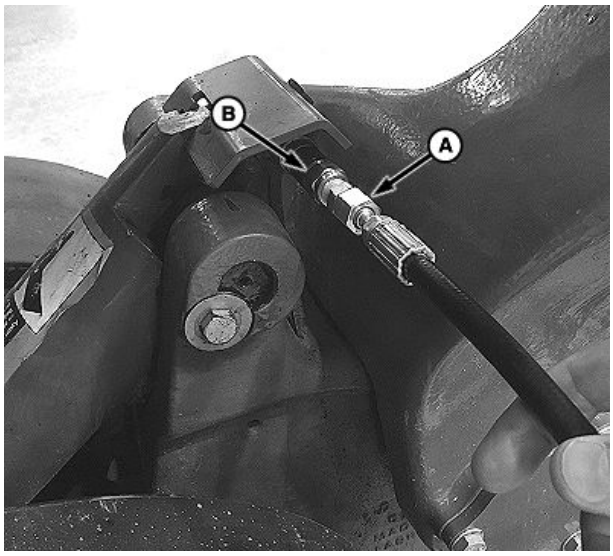


H128243 —UN—08JAN20

MH69740,00009CC -19-17SEP20-3/8

4. Attach hydraulic hose assembly (A) to the tension cylinder fitting (B).

A—Hydraulic Hose Assembly **B—Tension Cylinder Fitting**



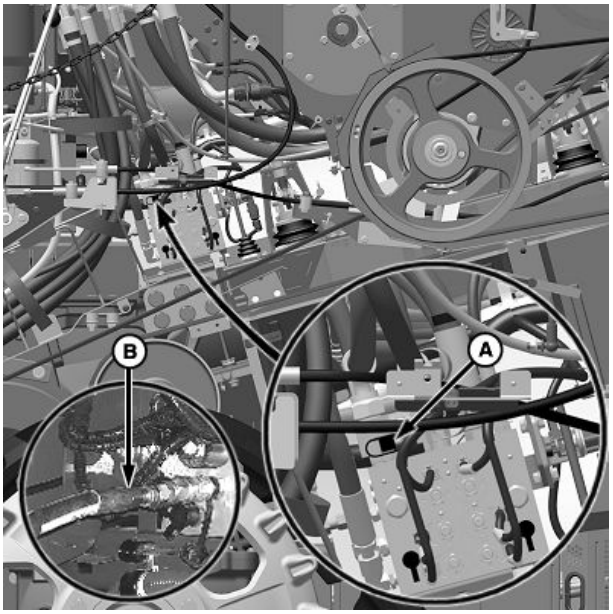
H124628 —UN—09JUL18

Continued on next page

MH69740,00009CC -19-17SEP20-4/8

5. Remove the cap from the diagnostic receptacle (A) on the primary valve block that is on the left-hand side of the machine.
6. Attach the hydraulic gauge hose (B) to the diagnostic receptacle.

A—Diagnostic Receptacle **B—Hydraulic Gauge Hose**



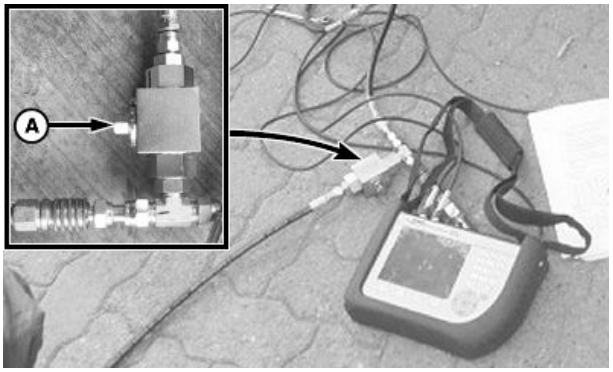
H129807 —UN—06APR20

Primary Valve Block

MH69740,00009CC -19-17SEP20-5/8

7. Slowly open previously installed valve (A) to relieve pressure from the track.
8. Once the pressure is relieved from the track, proceed to the mechanism adjustments.

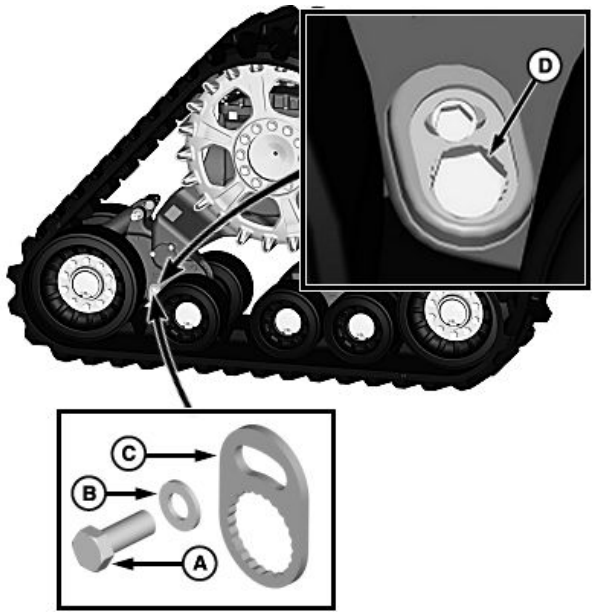
A—Valve



H129805 —UN—06APR20

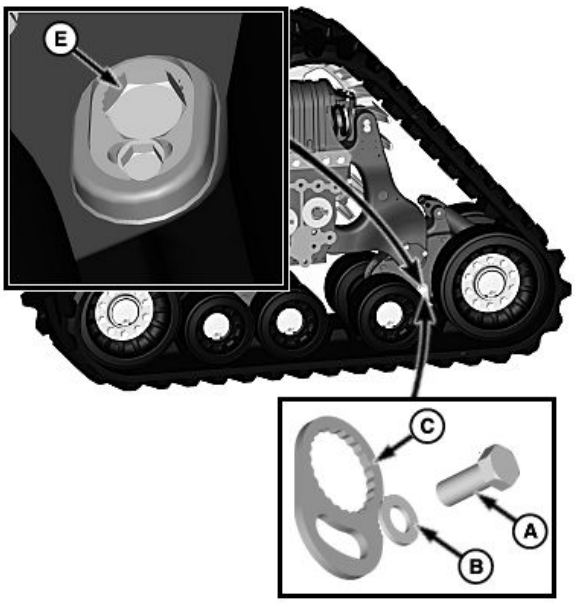
Continued on next page

MH69740,00009CC -19-17SEP20-6/8



H123876 —UN—28MAR18

Outside Shown



H123877 —UN—28MAR18

Inside Shown

A—Cap Screw (2 used)
B—Washer (2 used)
C—Lock Washer (2 used)
D—Outside Tracking Cap Screw
E—Inside Tracking Cap Screw

9. Remove cap screws (A), washers (B), and lock washers (C) from outside and inside of the track module.
10. Turn outside tracking cap screw (D) counterclockwise the required number of turns.
11. For position reference, mark the outside tracking cap screw (D) position.
12. Tighten the inside tracking cap screw (E) to specification.

Specification

Inside Tracking Cap Screw—Torque.....90 N·m (66 lb·ft)

13. Verify that the outside tracking cap screw (D) has not turned. If the cap screw has turned, repeat previous steps.
14. Secure the outside tracking cap screw (D) with the previously removed lock washer (C), washer (B), and cap screw (A).
15. Tighten cap screw (A) to specification.

Specification

Cap Screw—Torque.....128 N·m (94 lb·ft)

16. Secure the inside tracking cap screw (E) with the previously removed lock washer (C), washer (B), and cap screw (A).
17. Tighten cap screw (A) to specification.

Specification

Cap Screw—Torque.....128 N·m (94 lb·ft)

Continued on next page

MH69740,00009CC -19-17SEP20-7/8

NOTE: Two people are required to pressurize the track module.

18. One person needs to press the header raise/lower button on the multi-function lever. The raise button pressurizes the system and the track tension cylinder.
19. Pressurize the tension cylinder according to the ambient temperature (see table). Close the valve on the oil fill hose before releasing the pressure in the cab.
20. If overpressurized, slowly release oil until the required oil pressure for the ambient temperature is obtained (see table).
21. If too much oil is released, repressurize the cylinder by referring to step 18.

H116348 —UN—19DEC16



Header Raise/Lower Button

22. Disconnect the hydraulic hose assembly from the tension cylinder and valve block. Install the dust caps.
23. Repeat steps for the right-hand tracking module.

Ambient Temperature		kPa		bar		psi	
°C	°F	Oil	Nitrogen	Oil	Nitrogen	Oil	Nitrogen
-10	14	7970	6660	79.7	66.6	1155	965
-5	23	8150	6780	81.5	67.8	1181	984
0	32	8330	6910	83.3	69.1	1207	1002
5	41	8510	7040	85.1	70.4	1234	1021
10	50	8690	7170	86.9	71.7	1260	1039
15	59	8880	7300	88.8	73.0	1287	1058
20	68	9060	7420	90.6	74.2	1314	1076
25	77	9250	7550	92.5	75.5	1341	1094
30	86	9430	7680	94.3	76.8	1368	1113
35	95	9620	7800	96.2	78.0	1395	1131
40	104	9810	7930	98.1	79.3	1423	1149

MH69740,00009CC -19-17SEP20-8/8

Break-In Period

IMPORTANT: After a runtime of 10 hours, check the track as shown in the installation instructions and adjust if necessary. Also check all torques that are listed in these installation instructions.

The track break-in period is 100 hours and involves the following procedures:

- Check track lubrication every 10 hours for the first 100 hours. Add dry lubricant as needed.
- Check pressure settings.
- Check tracking every 50 hours.
- Check installation bolt torque after the first 100 hours are completed.
- Check idler and sprocket bolt torque after the first 100 hours and then every 400 hours.
- Check wheel hub oil level every 400 hours.

MH69740,00009CD -19-03NOV20-1/1