Return to INDEX

624H Loader and TC62H Tool Carrier Repair

TECHNICAL MANUAL
624H Loader TC62H Tool Carrier Repair

TM1640 15JAN04 (ENGLISH)

For complete service information also see:

624H Loader and TC62H Operation and Test TM1639

Worldwide Construction And Forestry Division
LITHO IN U.S.A.

Contents

SECTION 00—General Information
Group 0001—Safety Information
Group 0002—General Specifications
Group 0003—Torque Values
Group 0004—Fuels and Lubricants

SECTION 01—Wheels
Group 0110—Powered Wheels and Fasteners

SECTION 02—Axles and Suspension Systems
Group 0200—Removal and Installation
Group 0225—Axle Shafts and U-Joints
Group 0250—Axle Shaft, Bearings, Reduction Gears
Group 0260—Hydraulic System

SECTION 03—Transmission
Group 0300—Removal and Installation
Group 0350—Gears, Shafts, Bearings and Power Shift Clutch
Group 0360—Hydraulic System
Group 0399—Dealer Fabricated Tools

SECTION 04—Engine
Group 0400—Removal and Installation

SECTION 05—Engine Auxiliary Systems
Group 0505—Cold Weather Starting Aids
Group 0510—Cooling System
Group 0515—Speed Controls
Group 0520—Intake System
Group 0530—External Exhaust System
Group 0560—External Fuel Supply Systems

SECTION 07—Dampened Drive
Group 0752—Elements

SECTION 09—Steering System
Group 0960—Hydraulic System

SECTION 10—Service Brakes
Group 1011—Active Elements
Group 1060—Hydraulic System

SECTION 11—Park Brake
Group 1111—Active Elements
Group 1160—Hydraulic System

SECTION 16—Electrical System
Group 1671—Batteries, Support and Cables
Group 1672—Alternator, Regulator and Charging System Wiring
Group 1673—Lighting System
Group 1674—Wiring Harness and Switches
Group 1675—System Controls
Group 1677—Motors and Actuators

SECTION 17—Frame or Supporting Structure
Group 1740—Frame Installation
Group 1746—Frame Bottom Guards
Group 1749—Chassis Weights

SECTION 18—Operator's Station
Group 1800—Removal and Installation
Group 1810—Operator Enclosure
Group 1821—Seat and Seat Belts
Group 1822—Steps and Handholds
Group 1830—Heating and Air Conditioning
Group 1899—Dealer Fabricated Tools

SECTION 19—Sheet Metal and Styling
Group 1910—Hood or Engine Enclosure
Group 1913—Miscellaneous Shields
Group 1921—Grille and Grille Housing
Group 1927—Miscellaneous Shields

SECTION 20—Safety and Convenience
Group 2002—Mirror
Group 2003—Fire Extinguisher
Group 2004—Horn and Warning Devices

SECTION 31—Loader
Group 3102—Bucket
Group 3140—Frames
Group 3160—Hydraulic System

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.

COPYRIGHT © 2004
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRUCTION® Manual
Previous Editions
Copyright © 1998, 1999, 2000, 2001, 2003

Handle Fluids Safely—Avoid Fires

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



TS227 –UN–23AUG88

DX,FLAME –19–29SEP98–1/1

Prevent Battery Explosions

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).



TS204 –UN–23AUG88

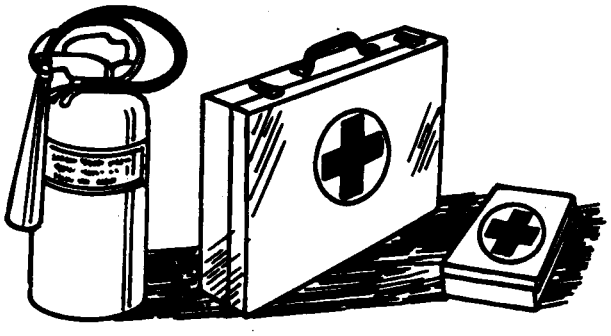
DX,SPARKS –19–03MAR93–1/1

Prepare for Emergencies

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.

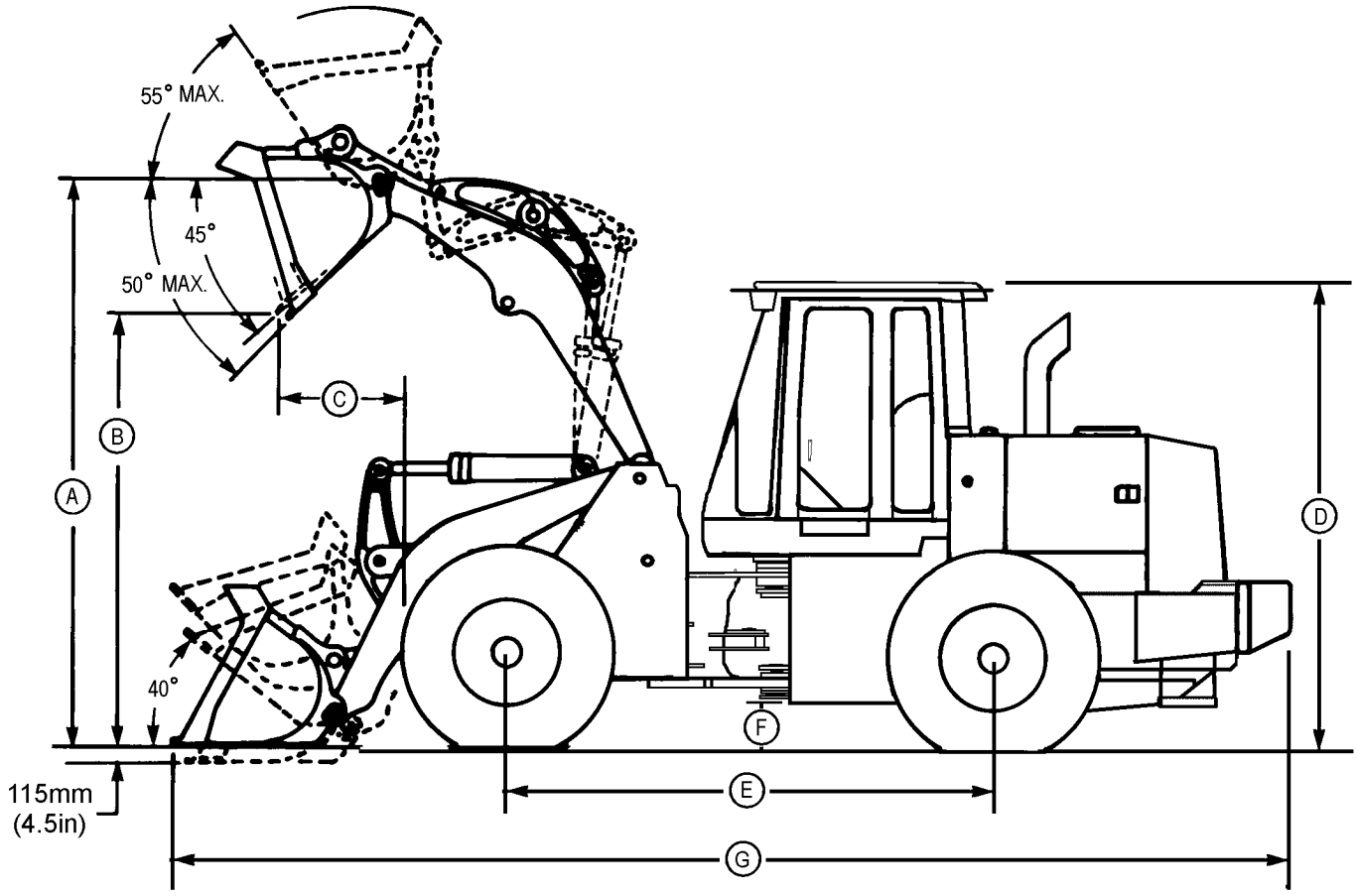


TS291 –UN–23AUG88

DX,FIRE2 –19–03MAR93–1/1

00
0002
1

624H Specifications



T107472

T107472 –UN–19FEB97

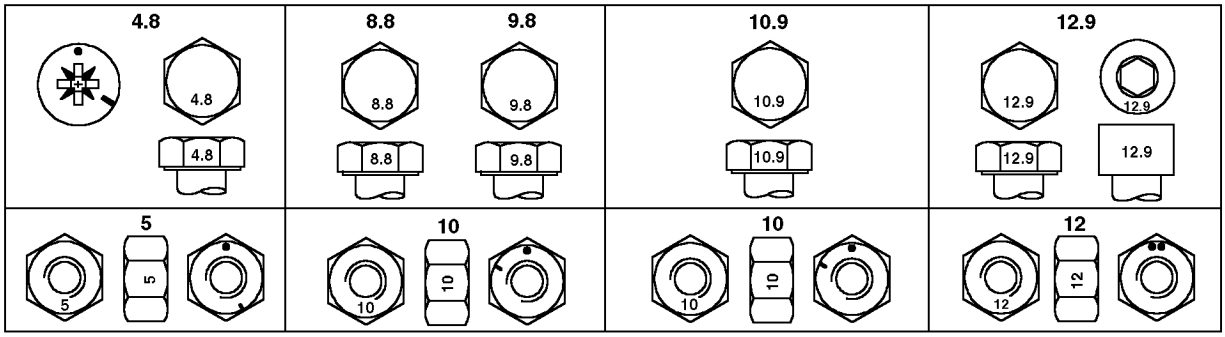
Item	Measurement	Specification
A—Bucket Hinge Height	Distance	3961 mm (13 ft 0 in.)
B—Dump Height	Distance	2858 mm (9 ft 5 in.)
C—Dump Reach	Distance	1038 mm (3 ft 5 in.)
D—Machine	Overall Height	3300 mm (10 ft 10 in.)
E—Wheelbase	Length	3030 mm (9 ft 11 in.)
F—Ground Clearance	Distance	406 mm (16.0 in.)
G—Machine	Overall Length	7610 m (25 ft 0 in.)

Continued on next page

TX,9000,JC2184 –19–21APR99–1/3

00
0003
2

Metric Bolt and Cap Screw Torque Values



TORQ2 –UN–07SEP99

Top, Property Class and Head Markings; Bottom, Property Class and Nut Markings

	Class 4.8		Class 8.8 or 9.8		Class 10.9		Class 12.9	
Size	**Lubricated[a] N•m(lb-ft)**	**Dry[b] N•m(lb-ft)**	**Lubricated[a] N•m(lb-ft)**	**Dry[b] N•m(lb-ft)**	**Lubricated[a] N•m(lb-ft)**	**Dry[b] N•m(lb-ft)**	**Lubricated[a] N•m(lb-ft)**	**Dry[b] N•m(lb-ft)**
M6	4.7 (3.5)	6 (4.4)	9 (6.6)	11.5 (8.5)	13 (9.5)	16.5 (12.2)	15.5 (11.5)	19.5 (14.5)
M8	11.5 (8.5)	14.5 (10.7)	22 (16)	28 (20.5)	32 (23.5)	40 (29.5)	37 (27.5)	47 (35)
M10	23 (17)	29 (21)	43 (32)	55 (40)	63 (46)	80 (59)	75 (55)	95 (70)
M12	40 (29.5)	50 (37)	75 (55)	95 (70)	110 (80)	140 (105)	130 (95)	165 (120)
M14	63 (46)	80 (59)	120 (88)	150 (110)	175 (130)	220 (165)	205 (150)	260 (190)
M16	100 (74)	125 (92)	190 (140)	240 (175)	275 (200)	350 (255)	320 (235)	400 (300)
M18	135 (100)	170 (125)	265 (195)	330 (245)	375 (275)	475 (350)	440 (325)	560 (410)
M20	190 (140)	245 (180)	375 (275)	475 (350)	530 (390)	675 (500)	625 (460)	790 (580)
M22	265 (195)	330 (245)	510 (375)	650 (480)	725 (535)	920 (680)	850 (625)	1080 (800)
M24	330 (245)	425 (315)	650 (480)	820 (600)	920 (680)	1150 (850)	1080 (800)	1350 (1000)
M27	490 (360)	625 (460)	950 (700)	1200 (885)	1350 (1000)	1700 (1250)	1580 (1160)	2000 (1475)
M30	660 (490)	850 (625)	1290 (950)	1630 (1200)	1850 (1350)	2300 (1700)	2140 (1580)	2700 (2000)
M33	900 (665)	1150 (850)	1750 (1300)	2200 (1625)	2500 (1850)	3150 (2325)	2900 (2150)	3700 (2730)
M36	1150 (850)	1450 (1075)	2250 (1650)	2850 (2100)	3200 (2350)	4050 (3000)	3750 (2770)	4750 (3500)

[a] *"Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings.*

[b] *"Dry" means plain or zinc plated without any lubrication.*

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

Make sure fastener threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

DX,TORQ2 –19–01OCT99–1/1

Service Equipment and Tools

NOTE: Order tools according to information given in the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC). Some tools may be available from a local supplier.

SERVICEGARD is a trademark of Deere & Company.

CED,OUOE003,3284 –19–25MAR99–1/3

10-Ton Shop Stand

To support machine while removing and installing wheels.

CED,OUOE003,3284 –19–25MAR99–2/3

Wheel and Axle Lift JT05726

To remove and install wheels.

CED,OUOE003,3284 –19–25MAR99–3/3

Specifications

Item	Measurement	Specification
Wheel Cap Screw	Torque	675 N•m (500 lb-ft)
Valve Stem Retaining Nut	Torque	6 N•m (50 lb-in.)

CED,OUOE003,3285 –19–25MAR99–1/1

Remove and Install Wheel

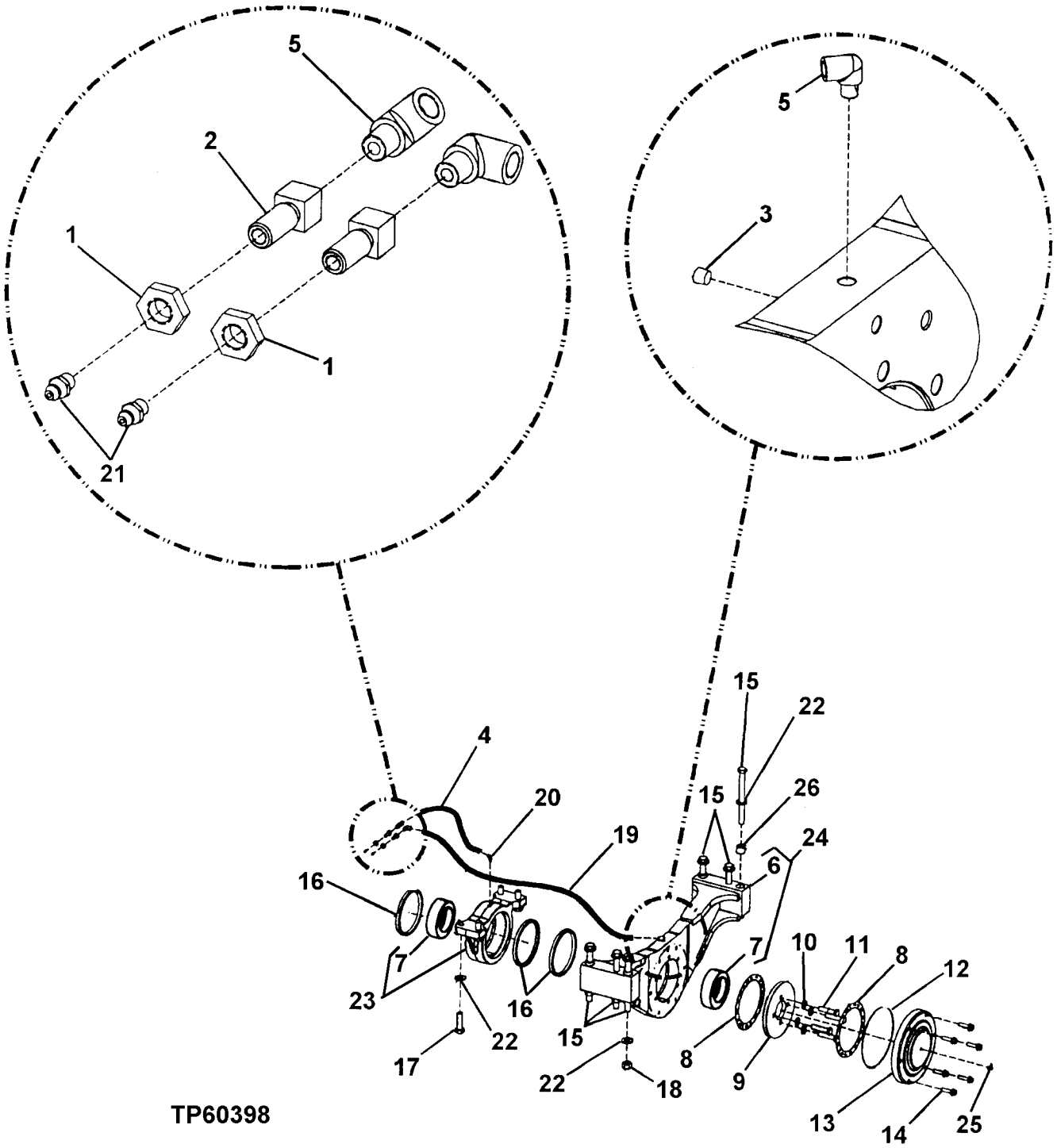
1. Raise machine and place 10-ton shop stand under axle.

CAUTION: Use a lifting device for heavy components.

2. Place wheel and axle lift under wheel. Fasten safety chain around upper part of tire.

Continued on next page

TX,01,111685 –19–01NOV02–1/2



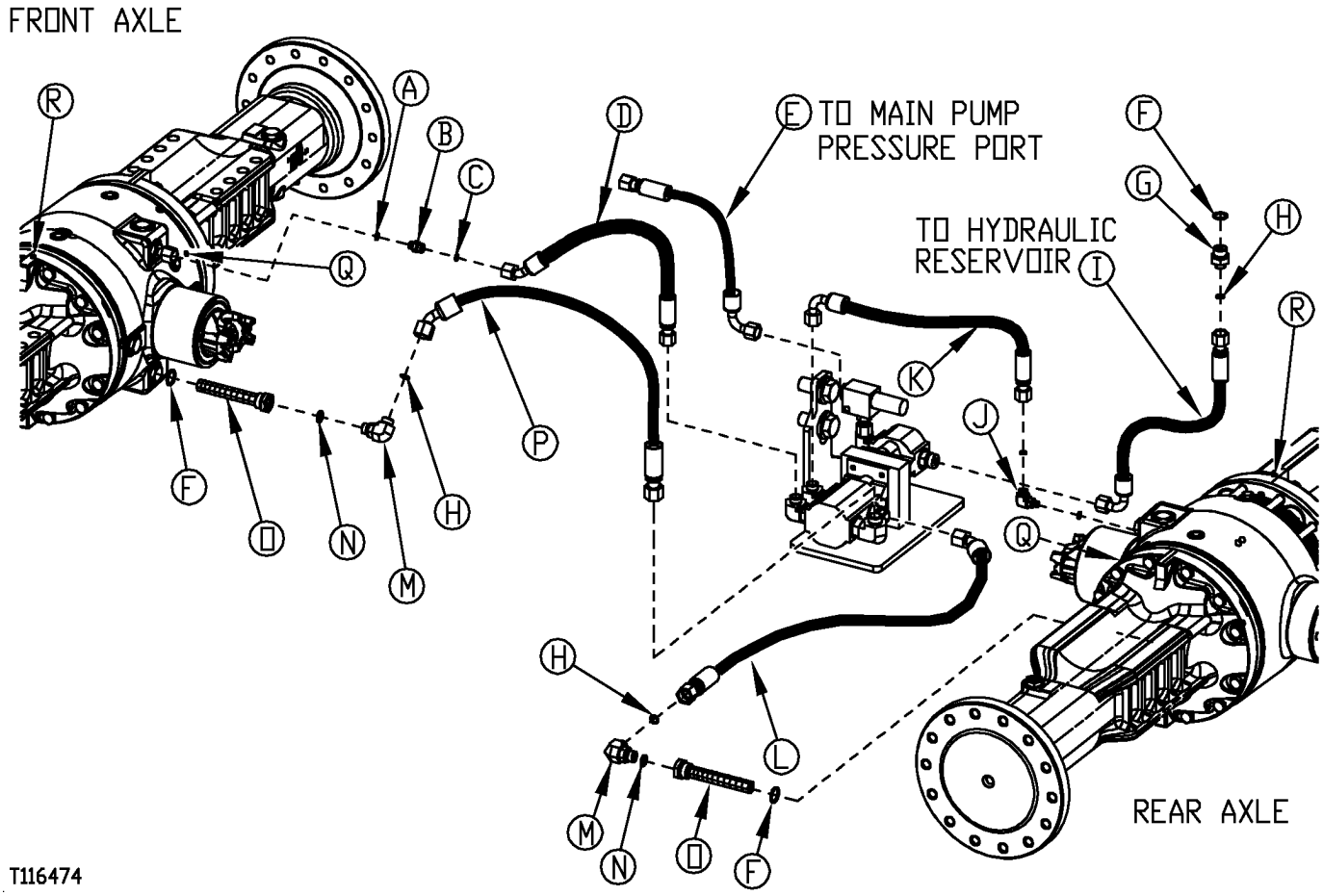
TP60398 –UN–22MAY98

Rear Differential Oscillating Supports and Lubrication Lines

Continued on next page

TX,02,111692 –19–10FEB99–4/5

Axle Recirculation System

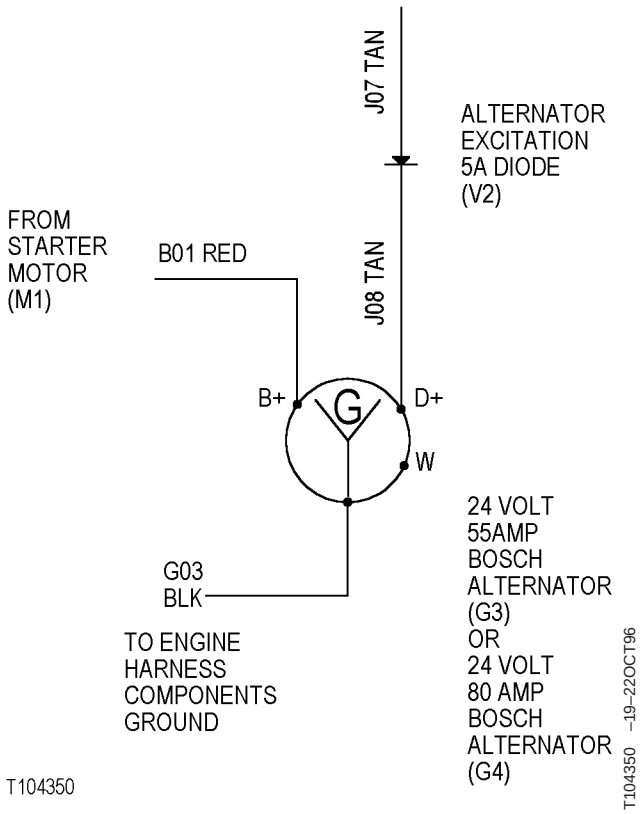


A—O-Ring (2 used)
B—O-Ring Adapter
C—O-Ring (2 used)
D—Front Axle Recirculation Inlet Port-to-Left Front Recirculation Pump Port Hydraulic Hose
E—Recirculation Pump Motor Inlet Port-to-Main Pump Pressure Port Hydraulic Hose
F—O-Ring (3 used)
G—ORFS Straight Thread Fitting
H—O-Ring (3 used)
I—Recirculation Pump Motor Outlet Port-to-Hydraulic Reservoir Hydraulic Hose
J—ORFS Elbow
K—Right Front Recirculation Pump Port-to-Rear Axle Inlet Port Hydraulic Hose
L—Right Rear Recirculation Pump Port-to-Rear Axle Recirculation Outlet Port Hydraulic Hose
M—ORFS O-Ring Elbow Fitting (2 used)
N—O-Ring (2 used)
O—Screen Filter (2 used)
P—Left Rear Recirculation Pump Port-to-Front Axle Recirculation Outlet Port Hydraulic Hose
Q—Old Breather Location
R—New Breather Location

CED,OUOE003,2651 –19–13DEC98–1/1

5. Install alternator. Connect wiring leads.

   Alternator belt tension is controlled by an automatic tensioner.



TX,1672,RB100 –19–13OCT98–3/3

00
0004
2

Low Sulfur Diesel Fuel Conditioner

When possible, use existing fuel formulations for engines used off-highway. This fuel will not require any additives to provide good performance and engine reliability. However, many local fuel distributors will not carry both low and regular sulfur diesel fuels.

If the local fuel distributor will supply only low sulfur fuel, order and use John Deere PREMIUM DIESEL FUEL CONDITIONER. It provides lubricating properties along with other useful benefits, such as cetane improver, anti-oxidant, fuel stabilizer, corrosion inhibitor and others. John Deere PREMIUM DIESEL FUEL CONDITIONER is specifically for use with low sulfur fuels. Nearly all other diesel fuel conditioners only improve cold weather flow and stabilize long-term fuel storage. They do not contain the lubrication additives needed by rotary fuel injection pumps.

TX,45,JC2126 –19–15AUG97–1/1

Diesel Fuel Storage

Proper fuel storage is critically important. Use clean storage and transfer tanks. Periodically drain water and sediment from bottom of tank. Store fuel in a convenient place away from buildings.

IMPORTANT: DO NOT store diesel fuel in galvanized containers. Diesel fuel stored in galvanized containers reacts with zinc coating on container to form zinc flakes. If fuel contains water, a zinc gel will also form. The gel and flakes will quickly plug fuel filters, damage injection nozzles and injection pump.

DO NOT use brass-coated containers for fuel storage. Brass is an alloy of copper and zinc.

Store diesel fuel in plastic, aluminum, and steel containers specially coated for diesel fuel storage.

Avoid storing fuel over long periods of time. If fuel is stored for more than a month prior to use, or there is a slow turnover in fuel tank or supply tank, add a fuel conditioner such as John Deere PREMIUM DIESEL FUEL CONDITIONER or equivalent to stabilize the fuel and prevent water condensation. John Deere PREMIUM DIESEL FUEL CONDITIONER is available in winter and summer formulas. Fuel conditioner also reduces fuel gelling and controls wax separation during cold weather.

Consult your John Deere engine distributor or servicing dealer for recommendations and local availability. Always follow manufacturer's directions on label.

TX,45,JC1772 –19–08JAN97–1/1

John Deere TeamMate™ III Axles—Use CTM150

For complete repair information, the Component Technical Manual (CTM) is also required.

Use the CTM in conjunction with this repair manual.



TS225 –UN–17JAN89

TeamMate is a trademark of Deere & Company.

CED,OUOE006,18 –19–24SEP98–1/1

02
0250
1

Essential Tools

NOTE: Order tools according to information given in the U.S. SERVICEGARD™ Catalog or from the European Microfiche Tool Catalog (MTC).

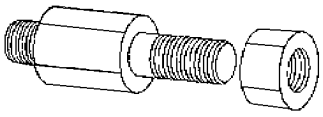
SERVICEGARD is a trademark of Deere & Company.

CED,OUOE003,3293 –19–25MAR99–1/8

RW25643 –UN–28FEB97

Lifting Screw JDG1125

Used with JDG19 Special Mounting Bracket to remove and install axle disconnect input shaft.

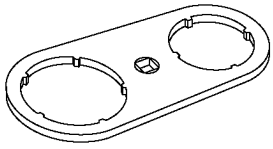


CED,OUOE003,3293 –19–25MAR99–2/8

RW25781 –UN–19JUN97

Spanner Wrench JDG1142

Used to remove and install auxiliary yoke retaining nut.



CED,OUOE003,3293 –19–25MAR99–3/8

RW25383 –UN–02APR96

Yoke Holding Tool JDG1090

Used to remove and install yoke retaining nut.

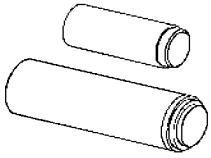


CED,OUOE003,3293 –19–25MAR99–4/8

RW25780 –UN–19JUN97

Bearing Installer Set JDG1141

Used to support disconnect input shaft and install outer bearing cone.



Continued on next page

CED,OUOE003,3293 –19–25MAR99–5/8

Specifications

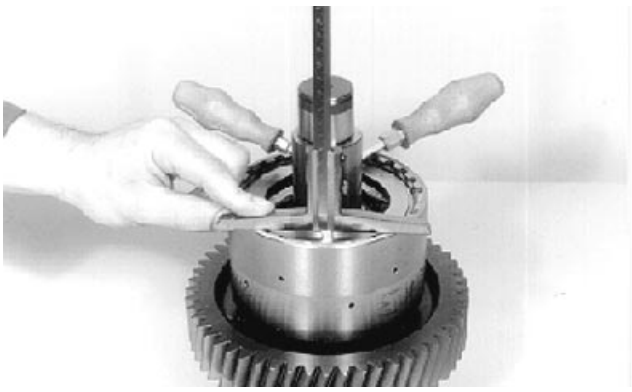
Item	Measurement	Specification
Torque Converter		
Transmission	Weight	510 kg (1125 lb) approximate
Converter Housing M10/10.9 Cap Screw	Torque	68 N•m (50 lb-ft)
Input Shaft-to-Drive Plate M12/10.9 Cap Screw	Torque	115 N•m (85 lb-ft)
Drive Plate-to-Torque Converter M12/10.9 Cap Screw	Torque	115 N•m (85 lb-ft)
Top Cover M10/8.8 Cap Screw	Torque	46 N•m (34 lb-ft)
Input Flange-to-Torque Converter Shaft Cap Screw	Torque	34 N•m (25 lb-ft)
Clutches, Input and Output Shafts		
Output Shaft Cover Socket Head Screw	Torque	23 N•m (17 lb-ft)
Housing Cover Hex Head Screw	Torque	46 N•m (34 lb-ft)
Output Flange	Temperature	90°C (194°F) maximum
Output Flange Cap Screw	Torque	34 N•m (25 lb-ft)
Gasket-to-Cover Hex Head Screw	Torque	23 N•m (17 lb-ft)
Oil Level Tube Screw	Torque	25 N•m (18 lb-ft)
Speed Sensor	Torque	30 N•m (22 lb-ft)
Drain Plug	Torque	140 N•m (100 lb-ft)
Clutch Pack		
KV and KR Clutch Pack Plate	Clearance	2.7—2.9 mm (0.106—0.114 in.)
Shaft Stud	Torque	17 N•m (150 lb-in.)
K1 Clutch Pack Plate	Clearance	2.4—2.6 mm (0.094—0.102 in.)

Continued on next page

CED,OUOE003,3327 –19–26MAR99–1/2

b. Press end shim against snap ring (upward) until contact and measure with gage. Record dimension (No. 2).

Example for Clutch Pack Clearance Check	
Dimension No. 1	8.00 mm (0.315 in.)
Dimension No. 2	6.00 mm (0.236 in.)
Difference = Plate Clearance	2.0 mm (0.079 in.)
Specification = Pack Clearance	1.8—2.0 mm (0.071—0.079 in.)


T108740 –UN–09MAY97

If a clutch pack clearance is not in specification, correct by using the proper corresponding snap ring from service parts to increase or decrease clearance. Snap rings come in various sizes.

After proper clearance is obtained remove disks and plates from assembly.

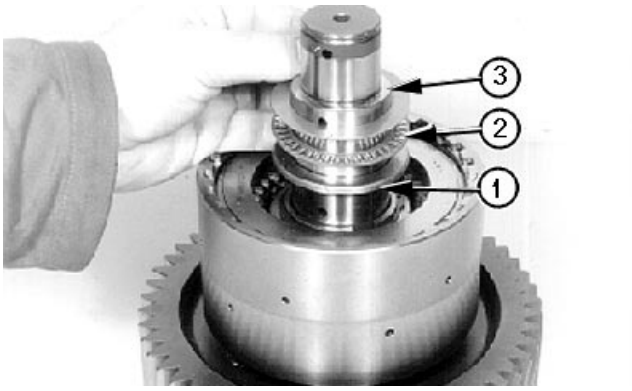
20. Add oil to plates and disks.

21. Reassemble clutch pack assembly.

TX,0350,ME289 –19–26MAR99–16/23

22. Assemble thrust disk (1), thrust bearing (2), and thrust washer (3).

1—Thrust Disk
2—Thrust Bearing
3—Thrust Washer



T108741 –UN–09MAY97

TX,0350,ME289 –19–26MAR99–17/23

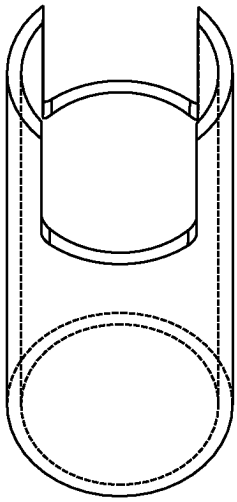
23. Install both needle bearings.


T108742 –UN–09MAY97

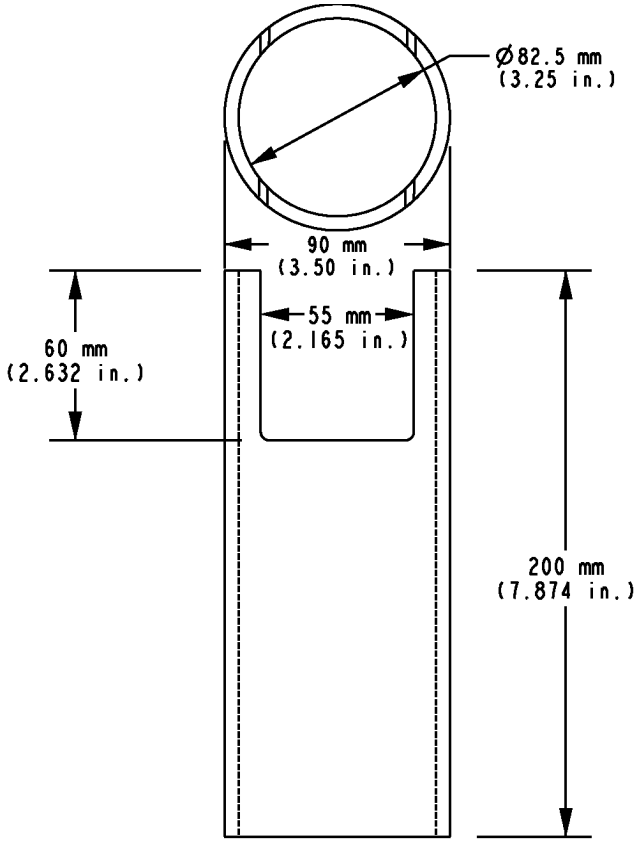
Continued on next page

TX,0350,ME289 –19–26MAR99–18/23

DFT1149 Pre-Load Clutch Pack Compression Ring Tool



TI09434



The Clutch Pack Compression Ring Tool is used to compress the piston compression ring so snap ring can be removed.

Material is standard pipe (see dimensions above) with window cut out to allow for access when removing snap ring.

TX,0399,ME296 –19–08MAY97–1/1

Specifications

Item	Measurement	Specification
Fuel Shut-Off Solenoid		
Injection Pump Lever Cap Screw	Torque	15—20 N•m (11—15 lb-ft)
Fast and Slow Idle		
Slow Idle Stop Screw	RPM	900 ± 25 rpm
Fast Idle Stop Screw	RPM	2350 ± 25 rpm
Speed Control Linkage		
Accelerator Pedal	Angle (with respect to pedal mounting plate)	9—11° @ low idle position
		30—35° @ fast idle position
Pedal Stop Screw	Clearance (with injection pump lever on fast idle stop)	1—2 mm (0.0039—0.079 in.)

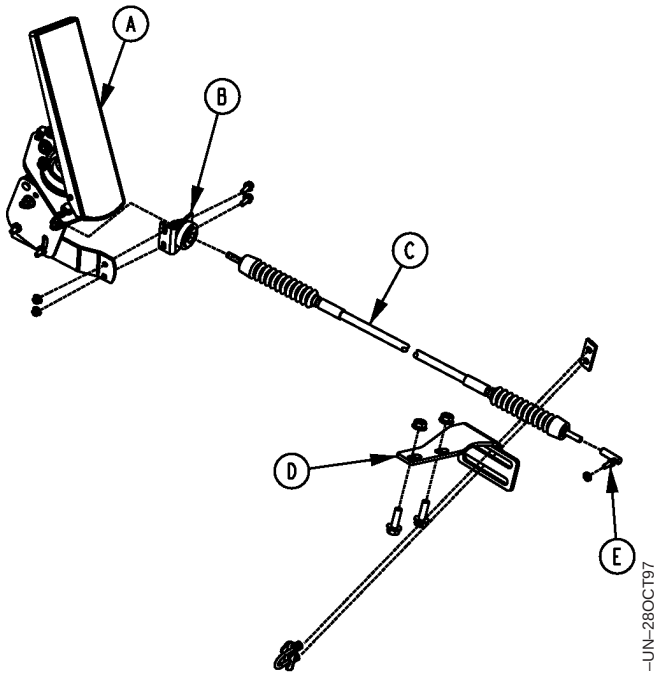
CED,OUOE003,3377 –19–21APR99–1/1

05
0515
1

Remove and Install Speed Control Linkage

1. Remove front and right cab shields.
2. Disassemble parts as shown.
3. Repair or replace as necessary.
4. Adjust linkage. (See Adjust Speed Control Linkage in this group.)
5. Install shields.

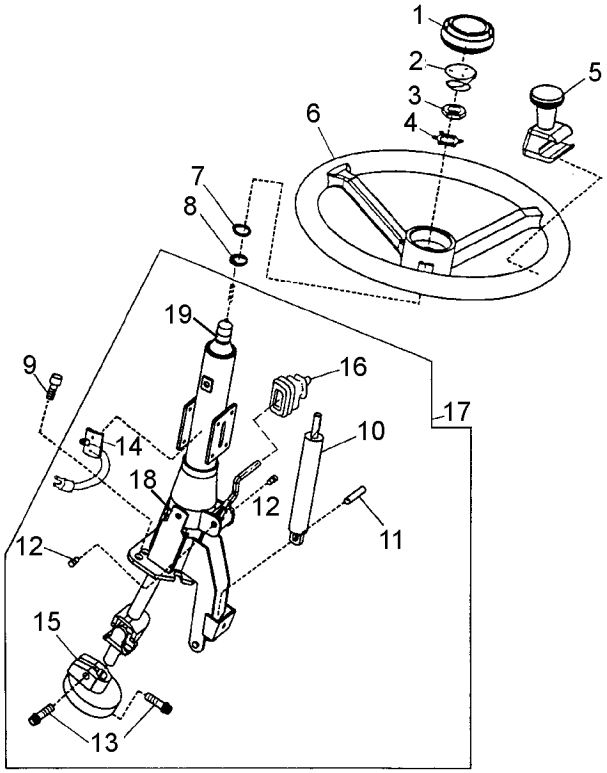
A—Accelerator Pedal Assembly
B—Isolator
C—Accelerator Cable
D—Bracket
E—Ball Joint



T111728

TX,05,RP3343 –19–27MAR99–1/1

Remove and Install Steering Column



T110814

T110814 –19–25JUL97

1—Cover
2—Spring Assembly
3—Nut
4—Lock Washer (2 used)
5—Knob
6—Steering Wheel
7—Snap Ring
8—Seal
9—Screw (4 used)
10—Spring
11—Dowel Pin
12—Screw (2 used)
13—Bolt (2 used)
14—Brush Set
15—Isolator
16—Cover
17—Steering Column
18—Apply NEVER-SEEZ®
19—Apply NEVER-SEEZ®

1. Remove steering column cover.
2. Remove shift selector and turn signal switch.
3. Disconnect spring (10).
4. Remove cap screws (9).
5. Remove parts (1—8) and (10—17).
6. Repair or replace parts as needed.
7. Apply NEVER-SEEZ® Lubricant or equivalent to steering column tilt pivots (18) and threads on steering shaft (19).
8. Assemble parts (1—17).

Steering Column—Specification

Steering Wheel-to-Steering Column Nut—Torque	68 N•m (50 lb-ft)

09 0960 8

NEVER-SEEZ is a trademark of Emhart Chemical Group.

TX,0960,MA15 –19–29MAR99–1/1

Battery Charging Procedure



TS204 –UN–23AUG88

CAUTION: Prevent possible personal injury from exploding battery. A battery may explode if charged when it is frozen. Warm battery to 16°C (60°F) before charging.

Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

IMPORTANT: Do not use battery charger as a booster if a battery has 1.150 gravity reading or lower. Turn off charger before connecting or disconnecting it.

When charging a battery in unit, all cables must be disconnected to avoid damaging electrical components if battery charger cables are inadvertently connected to battery wrong.

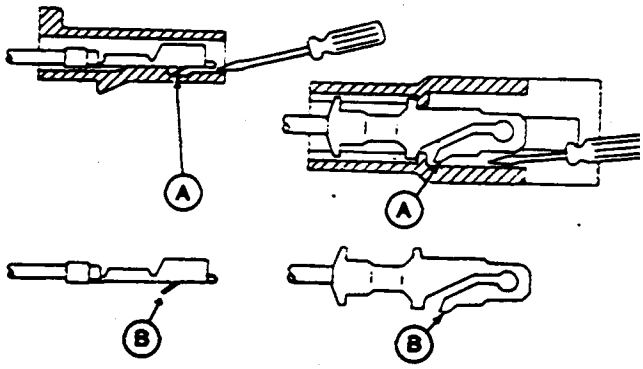
NOTE: Batteries CANNOT be charged with battery cables connected. Each battery must charged individually. Voltage in both batteries must be equal. Alternator WILL NOT charge a single low battery.

1. Disconnect all battery cables starting at the negative (-) ground cable.
2. Turn charger off before connecting or disconnecting it.
3. Charge battery following manufacturer's instructions for the battery charger.
4. After battery is charged, connect the cables, the negative (-) ground cable last.

TX,1671,MM3122 –19–08OCT96–1/1

Remove Connector Body from Blade Terminals

1. Depress locking tang (A) on terminal, using a small screw driver. Slide connector body off.
2. Be sure to bend locking tang back to its original position (B) before installing connector body.



RW4218 –UN–23AUG88

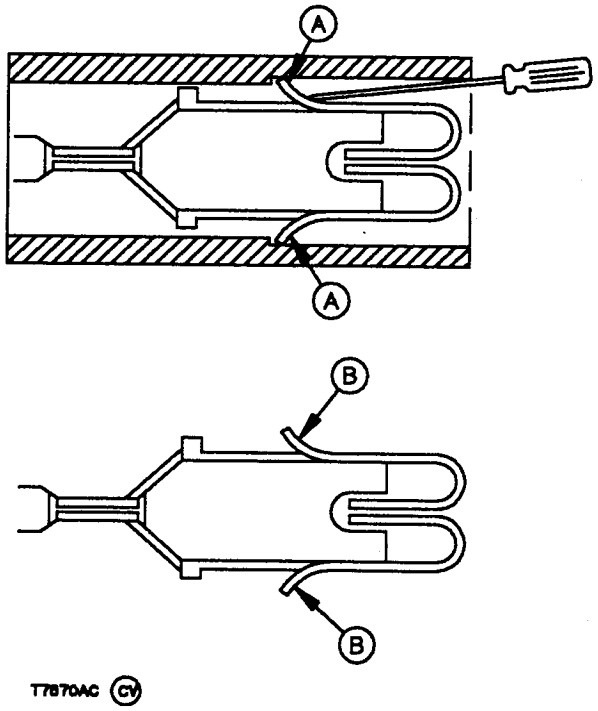
DX,ECONN,V1 –19–02NOV94–1/1

Remove Blade Terminals From Fuse Block

Use small screwdriver to depress each locking tang (A) on terminal. Pull terminal out of fuse block.

Be sure to bend locking tangs back to original position (B) before installing in fuse block.

A—Locking Tang (Depressed Position)
B—Locking Tang (Original Position)



T7670AC –UN–14DEC91

TX,1674,WW1218 –19–13OCT98–1/1

14. Disconnect hydraulic hoses from hydraulic pilot controllers.



TX,1800,111302 –19–28SEP98–6/8

NOTE: Machines equipped with air conditioning will require that the A/C system be evacuated. See R134a Refrigerant Recovery/Recycling and Charging procedure in Group 1830. Disconnect A/C hoses under cab, not shown.

15. Shut off heater hose shut off valves on engine. Disconnect heater hoses under cab. Disconnect three wiring connectors (A) on right side of cab and wiring connectors to loader frame (B) and disconnect the red, white and black wires from starter.



CAUTION: Cab weighs approximately 771 kg (1700 lb).

Specification

Cab—Weight ..... 771 kg (1700 lb) approximate

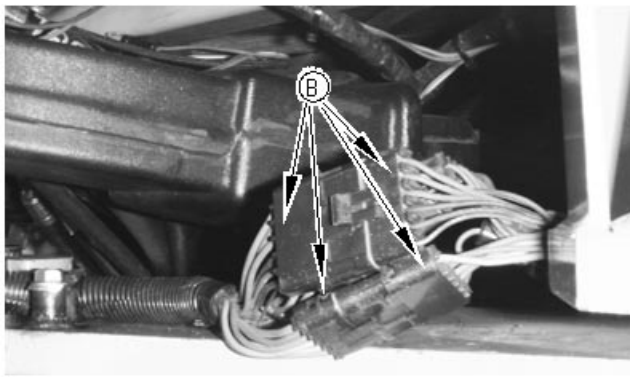
16. Remove four cap screws from top of cab roof and install four JT01748 Lifting Brackets to the cab roof. Attach chains and hoist to lifting brackets.

17. Remove cab mounting cap screws.

18. Remove cab.

19. Do necessary repairs.

20. Inspect cab mounting parts. Replace as needed.



A—Wiring Connector (3 used)
B—Wiring Connector (4 used)

Continued on next page

TX,1800,111302 –19–28SEP98–7/8

Purge Air Conditioner System

IMPORTANT: Air compressors used for purging systems require a water separator. Purging without a separator adds moisture, creating hydrofluoric acid when combined with refrigerant oil. Acid is corrosive to metal tubing.

1. Connect dry nitrogen hose to gauge manifold center hose.
2. Connect gauge manifold suction hose to compressor suction port, and open valves.
3. Connect gauge manifold discharge hose to compressor discharge post, and open valve. Disconnect discharge hose from gauge manifold to allow purging nitrogen to atmosphere.
4. Open nitrogen tank valve and adjust regulator to 275 kPa (40 psi) (2.75 bar). Purge system for two minutes. Disconnect nitrogen supply.
5. Evacuate system. (See procedure in this group.)

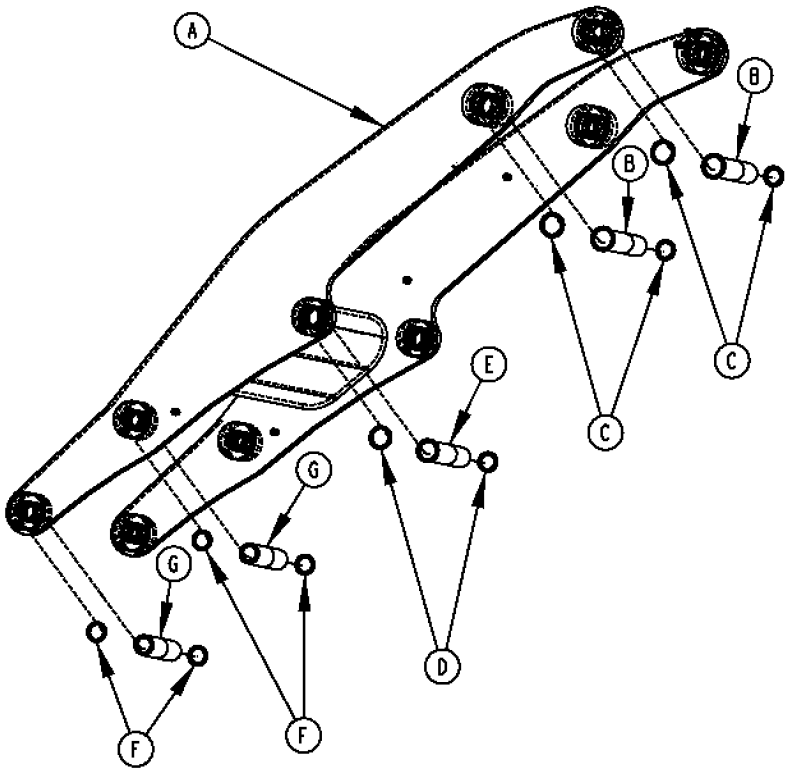
TX,1830,MM3156 –19–14OCT98–1/1

Specifications

Item	Measurement	Specification
Engine Side Shield	Weight	23 kg (50 lb) approximate

CED,OUOE003,2714 –19–31MAR99–1/1

Remove and Install Tool Carrier Boom Bushings and Seals



T108276 –UN–26NOV97

Left Side of Boom Shown

31
3140
10

A—Tool Carrier Boom
B—Bushing (4 used)
C—Seal (8 used)
D—Seal (4 used)
E—Bushing (2 used)
F—Seal (8 used)
G—Bushing (4 used)

1. Lower boom to ground and remove attachment from tool carrier.

CAUTION: The approximate weight of the boom is 907 kg (2000 lb).

The approximate weight of the tilt cylinder is 98 kg (216 lb).

Specification

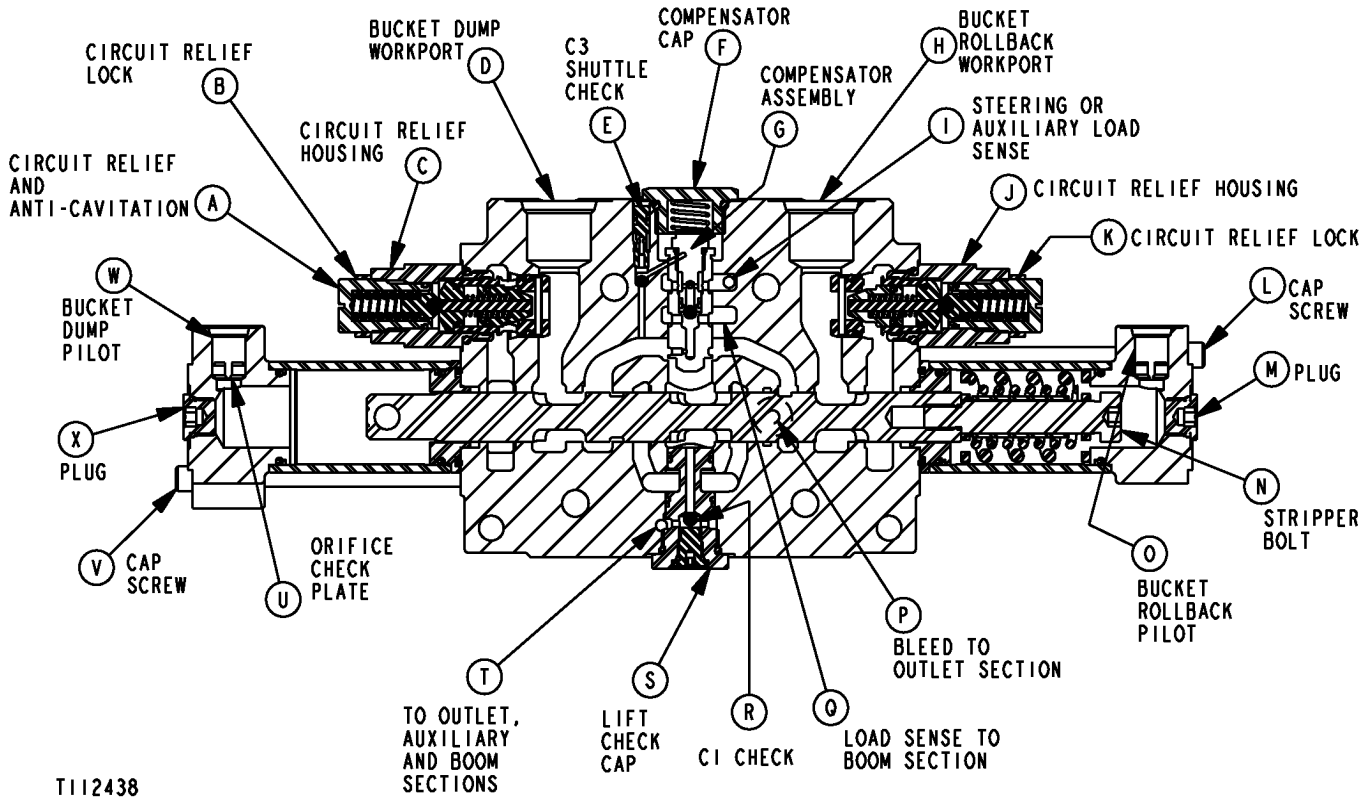
Tool Carrier Boom—Weight ..... 907 kg (2000 lb) approximate
Tilt Cylinder—Weight ..... 98 kg (216 lb) approximate

2. Remove bucket tilt linkage and cylinders.
3. Disconnect boom cylinder rod ends from boom.
4. Remove boom pivot pins and remove boom.
5. Remove bushings from boom using disks from Bushing, Bearing and Seal Driver Set.
6. Apply NEVER-SEEZ® Lubricant or an equivalent on outer surface of new bushings and bores. Center new bushings in boom bores and press seals against bushings with lips outward.
7. Install boom on machine and replace cylinders, linkage and bucket. Install shims in original locations. Measure clearances and adjust shims as required.

NEVER-SEEZ is a trademark of Emhart Chemical Group.

TX,3140,RP3047 –19–18FEB99–1/1

Disassemble and Assemble Auxiliary Valve Section and Bucket Section



Bucket Section Shown

NOTE: Bucket valve section shown.

1. Disassemble valve.

IMPORTANT: Coat all internal surfaces with clean hydraulic oil.

2. Replace all O-rings and backup rings.

3. Apply thread lock and sealer (high strength) to the following components:

   - Cap screws (L and V)
   - Stripper bolt

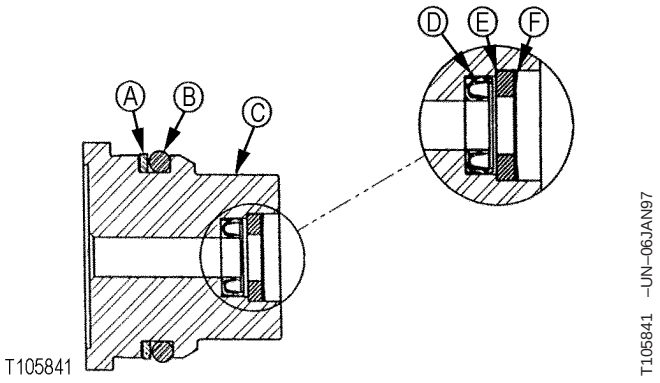
4. Torque components.

Bucket Valve—Specification

Circuit Relief Lock—Torque	20 N•m (175 lb-in.)
Circuit Relief Housing—Torque	102 N•m (75 lb-ft)
Compensator Cap—Torque	102 N•m (75 lb-ft)
Cap Screw—Torque	11 N•m (100 lb-in.)
Lift Check Hex Head Cap—Torque	169 N•m (125.0 lb-ft)
Port Plug—Torque	20 N•m (175 lb-in.)

TX,31,RP3377 –19–19FEB99–1/1

6. Remove and replace seals.
7. Lubricate wiper seal (D) with petroleum jelly.
8. Install seal in bore along with seal retainer (E).
9. Slightly bend tangs on stop ring (F) to allow for ease of installation to keep the ring centered in bore. Note, stop ring comes from factory with slightly concave or bent tangs. Make sure bending is done in the same direction. Tangs must face out when installing. Install stop ring in retainer by using a 11 mm socket as driver. Be sure to have stop ring (F) centered in bore so it does not contact push bar or ball socket pins.



A—Backup Ring
B—O-Ring
C—Retainer
D—Wiper Seal
E—Seal Retainer
F—Stop Ring

Continued on next page

TX,31,RP3064 –19–16OCT98–19/24

PREVIEW ONLY

You're viewing 25 of 662 pages

The full manual includes:

- All 662 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

John Deere 624H, TC62H Repair Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual