Recognize Safety Information

This is the safety alert symbol. When this symbol is noticed on the machine or in this manual, be alert for the potential of personal injury.

Follow the precautions and safe operating practices highlighted by this symbol.

A signal word — DANGER, WARNING, or CAUTION — is used with the safety alert symbol. DANGER identifies the most serious hazards.

On the machine, DANGER signs are red in color, WARNING signs are orange, and CAUTION signs are yellow. DANGER and WARNING signs are located near specific hazards. General precautions are on CAUTION labels.



T133555 —UN—28AUG00

T133588 —19—28AUG00

TX03679,00016CC -19-03JAN07-1/1

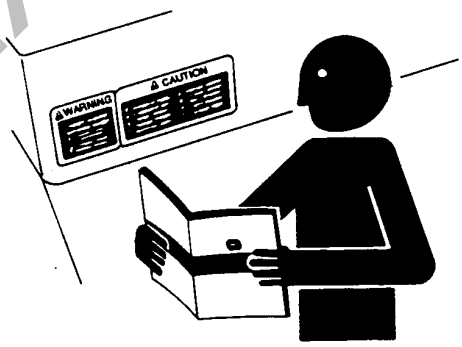
Follow Safety Instructions

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

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

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

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



TS201 —UN—23AUG88

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

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

Operate Only If Qualified

Do not operate this machine unless the operator's manual has been read carefully, and you have been qualified by supervised training and instruction.

Operator should be familiar with the job site and surroundings before operating. Try all controls and machine functions with the machine in an open area before starting to work.

Know and observe all safety rules that may apply to every work situation and work site.

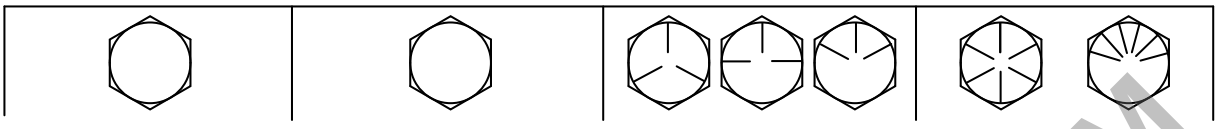
TX03679,00016FA -19-03JAN07-1/1

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Unified Inch Bolt and Screw Torque Values

TS1671 —UN—01MAY03



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

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

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

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

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

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

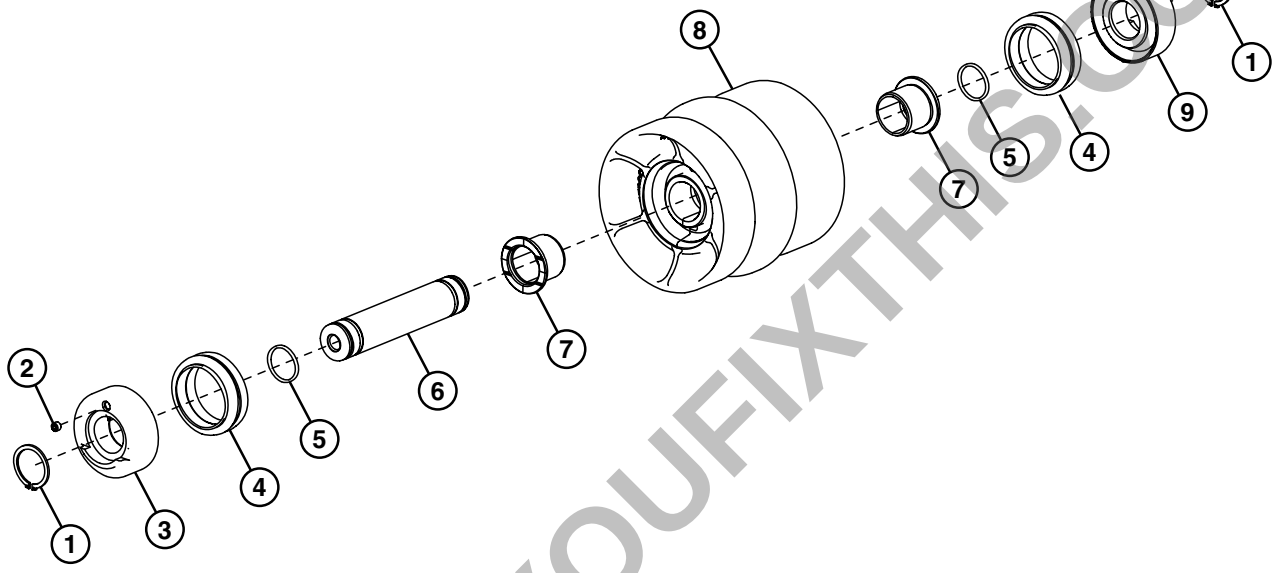
DX,TORQ1 -19-12JAN11-1/1

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Track Roller Disassemble and Assemble

This procedure is for track rollers on machines (S.N. —192141). Track rollers for machines (S.N. 192142—) are serviced as complete units only.



T210900 —UN—11AUG05

T210900

Track Roller

1— Snap Ring (2 used)
2— Plug
3— Collar (with plug hole)
4— Metal Face Seal (2 used)
5— O-Ring (2 used)
6— Axle Shaft
7— Bushing (2 used)
8— Track Roller
9— Collar (without plug hole)

⚠ CAUTION: Avoid crushing injury from heavy component. Use appropriate lifting device.

1. Remove track roller (8) from track frame. See Track Roller Remove and Install. (Group 0130.)

Specification	
Track Roller (S.N. —192141)—Weight (approximate)	26.3 kg 58 lb.

2. Remove plug (2) and drain oil from track roller.
3. Remove snap rings (1) from both ends of axle shaft (6).
4. Press axle shaft from track roller (8).
5. Press remaining collar (9) from axle shaft.

NOTE: If bushings (7) are worn or damaged complete roller must be replaced.

6. Inspect track roller bushings (7) and axle shaft. Replace track roller if bushings or axle shaft are worn or damaged.

NOTE: Metal face seals can be reused if they are not worn or damaged. Used seals **must** *be kept together as a set because of wear patterns on seal ring face.*

7. Remove metal face seals (4) from track roller. Keep seal rings together as a matched set with seal ring faces together to protect surfaces.
8. Inspect metal face seals. See Inspect Metal Face Seals. (Group 0130.)
9. Remove O-rings (5) from axle shaft.
10. Install new O-rings on axle shaft.
11. Install snap ring on one end of axle shaft.
12. Tap axle shaft into collar (9).

IMPORTANT: Prevent O-rings from slipping. Metal face seal O-rings and seat surfaces for O-rings MUST be clean, dry and oil free so O-rings do not slip when track roller is turning.

Continued on next page

KK70125,000076C -19-27OCT10-1/3

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Wheel Remove and Install

SPECIFICATIONS	
Nut Torque	237 N·m 175 lb.-ft.

332D Wheel Remove and Install

1. Park machine on flat level surface.
2. Raise and block machine. See Raising and Blocking Machine. (Operator's Manual.)

IMPORTANT: Avoid damage to wheel or wheel studs. Size 17.5 x 10.5 wheels have countersunk holes or non-countersunk holes. Wheels with countersunk holes use a spacer and wheels with non-countersunk holes use a washer.

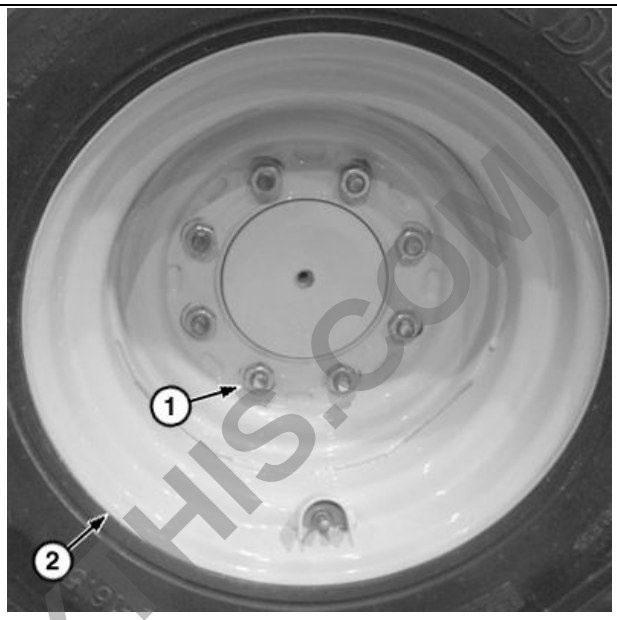
3. Remove nuts (1), washers (3) or spacers (5), and wheel (2).
4. Clean mounting surface on wheel and axle flange.
5. Install wheel.
6. For wheels with non-countersunk holes, install washers. Install nuts with flat side against washer.

   For wheels with countersunk holes, install spacers with taper towards wheel. Install nuts with flat side against spacer.
7. Torque nuts to specification.

Specification

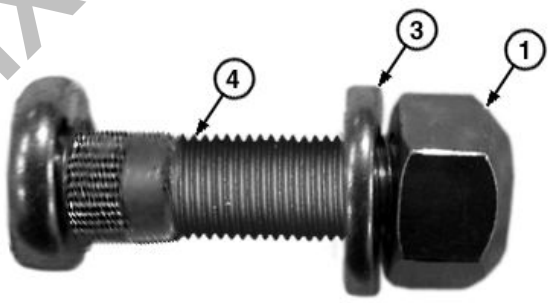
Nut—Torque.....237 N·m
175 lb.-ft.

1— Nut (8 used)
2— Wheel
3— Washer (8 used)
4— Wheel Stud
5— Spacer (8 used)



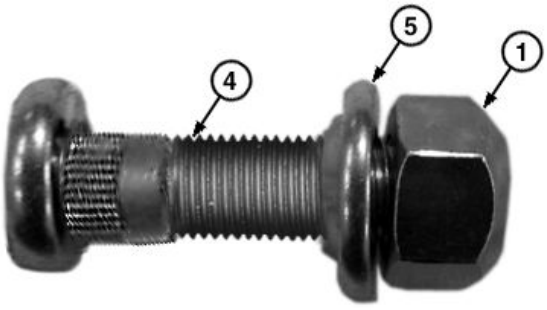
TX1130358A —UN—29JAN13

Wheel



TX1130562A —UN—14FEB13

Wheel Hardware for Non-Countersunk Holes



TX1130561A —UN—14FEB13

Wheel Hardware for Countersunk Holes

Continued on next page

ML82895,00007B3 -19-14FEB13-1/2

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13. Thoroughly clean O-ring and seat surfaces using volatile, non-petroleum based solvent and lint-free tissues.
14. Wipe finger prints and foreign material off seal ring face with clean oil and lint-free tissues.
15. Apply a thin film of oil to metal face seal.
16. Install metal face seals in collars and track roller. Apply equal pressure with fingers at four equally spaced points on seal face. Seal **must** "pop" down into place so O-ring is tight against seal bore. A volatile, non-petroleum based solvent or talcum powder may be used as a lubricant.
17. Tap axle shaft into roller.
18. Install collar (3) on axle shaft.

KK70125,000076C -19-27OCT10-2/3

19. Support axle shaft (6) and press on collar (3) to install snap ring. Install snap ring to axle shaft.
20. Using graduated beaker or syringe, fill track roller with SAE 80W-90 gear oil meeting API Service GL-5.

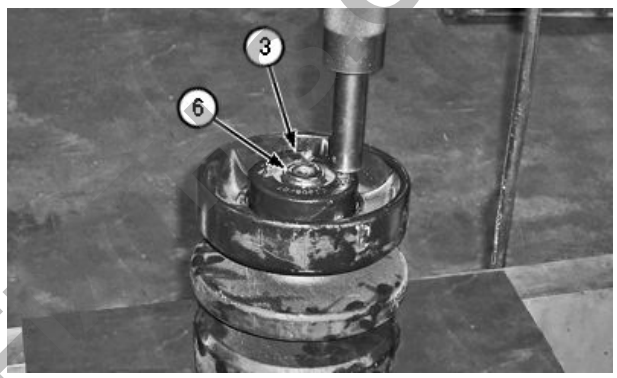
Specification	
Track Roller Gear Oil—Capacity (S.N. —192141)	225 mL 7.6 oz.

21. Clean threads of plug and apply cure primer.
22. Apply PM37397 Thread Sealant (high temperature) to plug threads.
23. Install plug to collar. Tighten plug to specification.

Specification	
Plug—Torque	28.5 N·m 21 lb.-ft.

CAUTION: Avoid crushing injury from heavy component. Use appropriate lifting device.

24. Install track roller to track frame. See Track Roller Remove and Install. (Group 0130.)



T213179A —UN—04AUG05

Snap Ring Installation

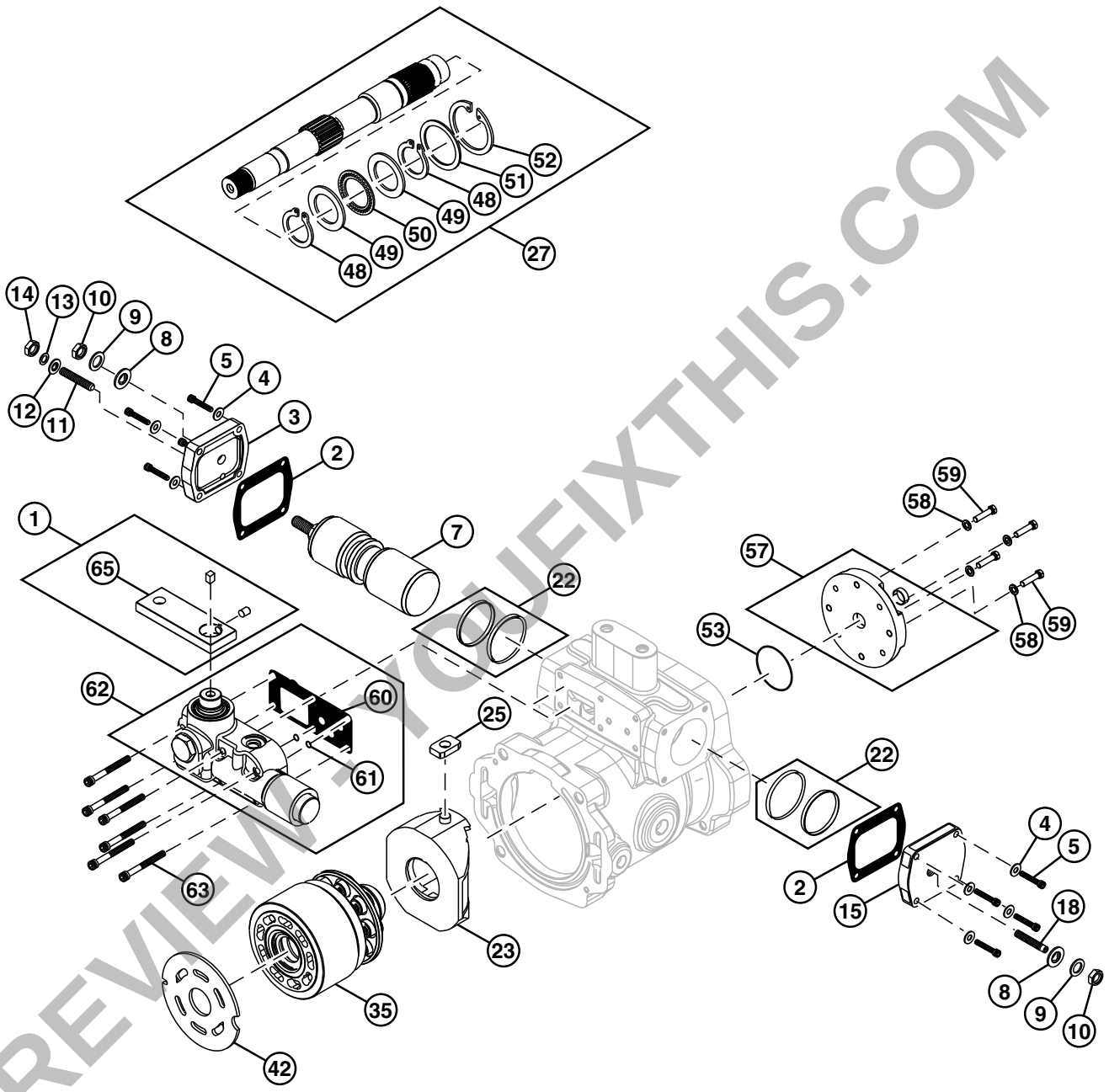
3— Collar (with plug hole) **6— Axle Shaft**

Specification	
Track Roller (S.N. —192141)—Weight (approximate)	26.3 kg 58 lb.

KK70125,000076C -19-27OCT10-3/3

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TX1127163 —UN—05DEC12

TX1127163

Left Hydrostatic Pump

Continued on next page

TF44157,0000EC7 -19-07DEC12-4/8

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Control Lever Handle Remove and Install

1. Remove front attachment and park machine on flat level surface.
2. Raise operator's station. See Raising Operator's Station. (Group 1810.)
3. Remove footwell. See Footwell Remove and Install. (Group 1910.)

NOTE: This procedure is for hands only machines.

4. Remove control cable bracket (2) on control lever (3).
5. Remove spring pin (6) from handle. Remove control cable (1) from handle.

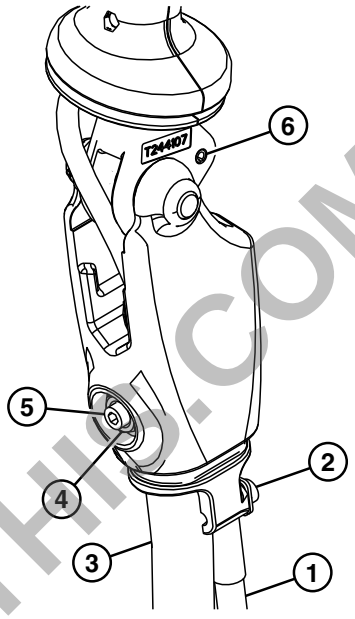
NOTE: If equipped with buttons in handle, a wire harness near the bottom of the control lever will need to be disconnected.

6. Remove handle lock nut (4) and set screw (5) to remove handle from control lever.
7. Install handle on control lever.

Specification	
Handle Set Screw—Torque	9 N·m 80 lb-in.

Specification	
Set Screw Lock Nut—Torque	25 N·m 220 lb-in.

8. Install control cable.



TX1068714 —UN—12DEC09

Control Lever Handle

1— Control Cable
2— Control Cable Bracket
3— Control Lever
4— Handle Lock Nut
5— Set Screw
6— Spring Pin

9. Lower operator's station. See Raising Operator's Station. (Group 1810.)
10. Install footwell. See Footwell Remove and Install. (Group 1910.)

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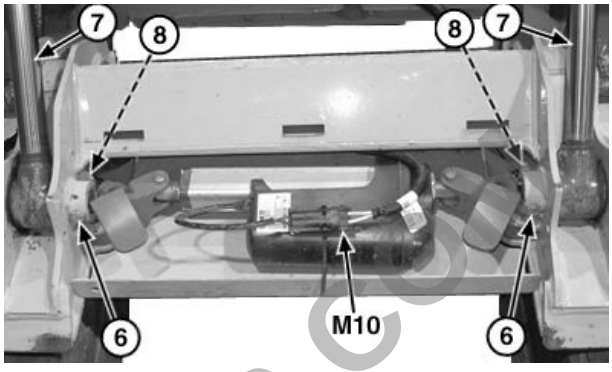
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9. Disconnect wiring harness connector from Quik-Tatch™ motor (M10).
10. Remove cap screws (6) and nuts (8) from pins on bucket cylinders (7).
11. Remove pins from bucket cylinders.
12. Clean and inspect parts. Repair or replace parts as necessary.
13. Place coupler on blocking.
14. Install boom-to-coupler pins with cap screws and nuts. Tighten cap screws to specification.

Specification	
Boom-To-Coupler Pin Cap Screw—Torque (318D, 319D, 320D, and 323D)	320 N·m 236 lb-ft
Boom-To-Coupler Pin Cap Screw—Torque (326D, 328D, 329D, 332D, and 333D)	620 N·m 457 lb.-ft.

15. Install plugs to both sides of coupler.
16. Position bucket cylinders and install pins with cap screws and nuts. Tighten cap screws to specification.



TX1068804A —UN—22DEC09

Quik-Tatch™ Coupler

6— Cap Screw (2 used)
7— Bucket Cylinder (2 used)
8— Nut (2 used)
M10— Quik-Tatch™ Motor

Specification	
Bucket Cylinder Pin Cap Screw—Torque	73 N·m 54 lb.-ft.

17. Install cover to coupler.
18. Lubricate all pivot points. Actuate bucket cylinders to verify operation.

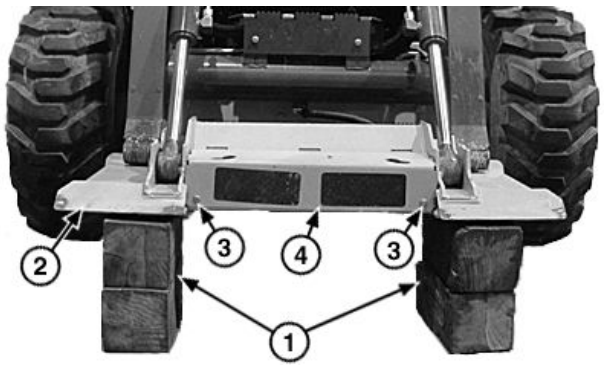
RM58335,00006F8 -19-28FEB11-4/4

Quik-Tatch™ Actuator Remove and Install

1. Remove front attachment from Quik-Tatch™ coupler (2) and park machine on flat level surface.
2. Place blocking (1) in front of machine as shown.
3. Roll coupler full forward and lower boom onto blocking.
4. Engage park brake and turn engine off.
5. Cut tie band and remove cover (4) from coupler.

1— Blocking
2— Quik-Tatch™ Coupler
3— Cap Screw (2 used)
4— Cover

Quik-Tatch is a trademark of Deere & Company



TX1068799A —UN—14DEC09

Quik-Tatch™ Coupler Removal

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RM58335,00006FA -19-12FEB10-1/2

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Track Roller Remove and Install

1. Park machine on a flat level surface.
2. Raise and block machine.
3. Remove track. See Track Remove and Install. (Group 0130.)

CAUTION: Avoid crushing injury from heavy component. Use appropriate lifting device.

4. Support track roller, to prevent track roller from dropping once cap screws are removed.

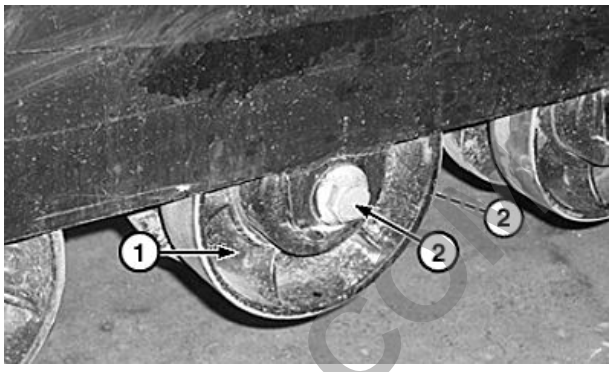
Specification

Track Roller (S.N. —192141)—Weight (approximate)	26.3 kg 58 lb.
Track Roller (S.N. 192142—)—Weight (approximate)	29 kg 64 lb.

5. Remove cap screws (2) and track roller (1) from track frame.

NOTE: Track rollers for machines (S.N. 192142—) are serviced as complete units only.

6. Clean and inspect parts. Repair or replace parts as necessary.
7. Apply PM37477 Thread Lock and Sealer (medium strength) to threads of cap screws.



TX1069982A —UN—19JAN10

Track Roller

1— Track Roller **2— Cap Screw (2 used)**

8. Install track roller to track frame. Tighten cap screws to specification.

Specification

Track Roller-to-Track Frame Cap Screw—Torque	644 N·m 475 lb.-ft.

9. Install track. See Track Remove and Install. (Group 0130.)
10. Raise machine and remove blocking.

KK70125,000076B -19-27OCT10-1/1

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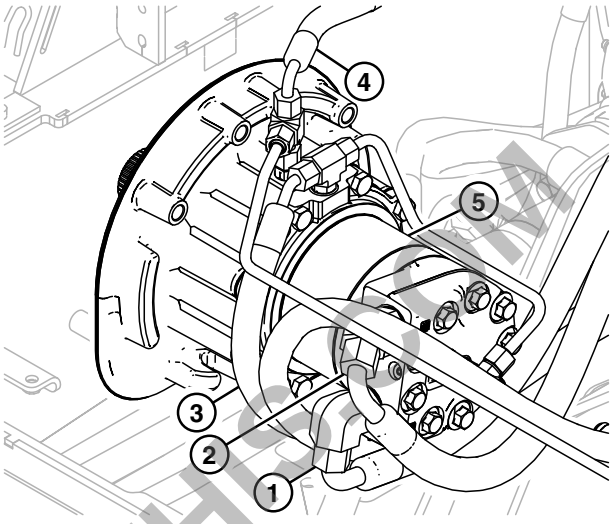
Hydrostatic Motor and Park Brake Remove and Install

This procedure is used for wheeled machines.

1. Remove front attachment and park machine on flat level surface.
2. Raise and block machine. See Raising and Blocking Machine. (Group 1740.)
3. Raise operator's station. See Raising Operator's Station. (Group 1810.)
4. Remove footwell. See Footwell Remove and Install. (Group 1910.)
5. Remove only the upper steering dampener mounting hardware. See Steering Dampener Remove and Install. (Group 0315.)
6. Remove link rods and control rods from control levers and hydrostatic pumps. Allow ends to remain on steering cross shaft. See Steering Cross Shaft Assembly Remove and Install. (Group 0315.)
7. Remove steering cross shaft assembly.
8. Remove control lever from side being serviced. See Control Lever Remove and Install. (Group 0315.)

NOTE: The procedure to remove a two speed motor is similar.

9. Tag and disconnect lines (1—4) from hydrostatic motor (5). Cap or plug all openings.
10. Remove wheels from side being serviced. See Wheel Remove and Install. Group 0110.)



TX1070074 —UN—27JAN10

Hydrostatic Motor Lines (single speed motor shown)

1— Forward Hydrostatic Line
2— Reverse Hydrostatic Line
3— Case Drain Line
4— Park Brake Release Line
5— Hydrostatic Motor

11. Drain chain case. See Change Chain Case Oil. (Operator's Manual.)
12. Remove chain case access plate. See Chain Case Access Plate Remove and Install. (Group 0250.)
13. Remove front and rear axle housing. See Axle Housing Remove and Install. (Group 0201.)

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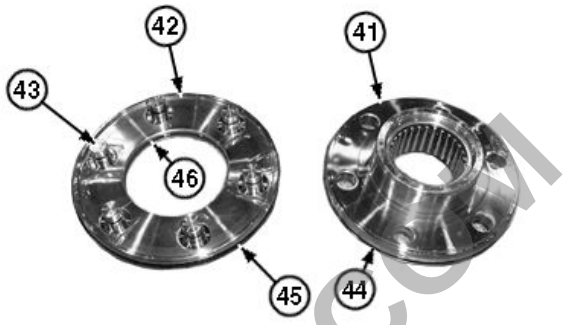
TF44157,0000EC5 -19-15SEP10-1/2

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4. Install seals (45 and 46) on brake piston (42).
5. Install seal (44) on seal ring (41).
6. Assemble seal ring and brake piston together.

41— Seal Ring
42— Brake Piston
43— Brake Pin (6 used)
44— Seal
45— Seal
46— Seal



T213799A —UN—30AUG05

Brake Piston Assembly

KK70125,0000766 -19-25OCT10-3/13

7. Press needle bearing in brake piston assembly. Compare needle bearing depth (50) to specification.

Specification

Needle Bearing—Depth..... 3.5 mm
0.14 in.

50— Needle Bearing Depth



T213802A —UN—30AUG05

Needle Bearing Depth

Continued on next page

KK70125,0000766 -19-25OCT10-4/13

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1— Control Lever Assembly
2— Gasket (2 used)
3— Cover
4— Washer (8 used)
5— Cap Screw (8 used)
7— Servo Control Piston
8— Sealing Washer (2 used)
9— Washer (2 used)
10— Nut (2 used)
11— Set Screw
12— Sealing Washer
13— Washer
14— Nut
15— Cover
18— Set Screw
22— Seal Kit (2 used)
23— Swash Plate
25— Follower
27— Drive Shaft
35— Rotating Assembly
42— Valve Plate
48— Snap Ring (2 used)
49— Thrust Washer (2 used)
50— Thrust Bearing
51— Seal
52— Snap Ring
53— O-Ring
57— End Plate
58— Washer (4 used)
59— Cap Screw (4 used)
60— Gasket
61— Orifice (2 used)
62— Manual Servo Control Assembly
63— Cap Screw (6 used)
65— Control Lever

SPECIFICATIONS	
Servo Control Piston Cover Cap Screw Torque	5 N·m 45 lb.-in.
Servo Control Piston Neutral Adjustment Nut Torque	17 N·m 150 lb.-in.
Manual Servo Control Assembly Cap Screw Torque	5 N·m 45 lb.-in.
Hydrostatic Pump Manifold Cap Screw Torque	55 N·m 40 lb.-ft.
Charge Pressure Relief Valve (39) Torque	40 N·m 30 lb.-ft.
Pressure Relief Valve (37) Torque	140 N·m 100 lb.-ft.

OTHER MATERIAL
242 LOCTITE® Thread Lock and Sealer (Medium Strength)

NOTE: The left and right hydrostatic pumps are connected by a manifold. The configuration for each pump is similar. This procedure applies to an individual pump once it has been separated from the manifold.

1. Remove hub coupler. See Hub Coupler Remove and Install. (Group 0325.)
2. Remove charge and hydraulic pumps. See Hydraulic Pump Remove and Install. (Group 2160.)
3. For left hydrostatic pump, remove end plate (57) and O-ring (53).
4. Remove cap screws (46) and gaskets (44) to separate left and right hydrostatic pumps from hydrostatic pump manifold.
5. Remove cap screws (63). Remove manual servo control assembly (62 and 64), orifices (61) and gasket (60).

IMPORTANT: Valve plates (41 and 42) are not interchangeable. Note position of valve plates before removing.

6. Remove valve plate (41 and 42), rotating assembly (34 and 35), swash plate (23) and follower (24 and 25).
7. Remove cap screws and washers (5 and 4) from cover plates (3 and 15). Remove cover plate (15).
8. Remove nut, washer, and sealing washer (8—10) from servo control piston (6 and 7). Unscrew cover plate (3) from servo control piston.
9. Remove gaskets (2).
10. Remove servo control piston.
11. Remove seals (22).
12. For left hydrostatic pump, remove snap ring (52) from shaft. Press shaft assembly from pump housing. Remove parts (48—51) from shaft.

    For right hydrostatic pump, remove snap ring (33) from shaft. Press shaft assembly from pump housing. Remove parts (28—32) from shaft.
13. Clean and inspect parts. Repair or replace parts as necessary.
14. For left hydrostatic pump, install parts (48—51) on shaft. Install shaft assembly into pump housing. Install snap ring (52) on shaft.

    For right hydrostatic pump, install parts (28—32) on shaft. Install shaft assembly into pump housing. Install snap ring (33) on shaft.
15. Install seal kits (22).
16. Install servo control piston (6 and 7).
17. Install gaskets (2).
18. Screw cover plate (3) on servo control piston. Install cover plate (15). Install cap screws and washers (5 and 4) Tighten cap screws to specification.

Specification

Servo Control Piston Cover Cap Screw—Torque.....5 N·m
45 lb.-in.

19. Install nut, washer, and sealing washer (8—10) on servo control piston. Tighten nut to specification.

Specification

Servo Control Piston Neutral Adjustment Nut—Torque.....17 N·m
150 lb.-in.

20. Install follower (24 and 25) on pin located on swash plate (23). Install swash plate in pump housing aligning follower with groove in servo control piston.
21. Install rotating assembly (34 and 35).
22. Install orifices (61) and gasket (60).

Continued on next page

TF44157,0000EC7 -19-07DEC12-5/8

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Charge R134a System

NOTE: Anytime air conditioning system is discharged, a new receiver-dryer must be installed.

CAUTION: Liquid refrigerant will freeze eyes or skin on contact. Wear goggles, gloves and protective clothing.

See Refrigerant Cautions and Proper Handling. (Group 1830.)

Do not remove high pressure relief valve (F). Air conditioning system will discharge rapidly causing possible injury.

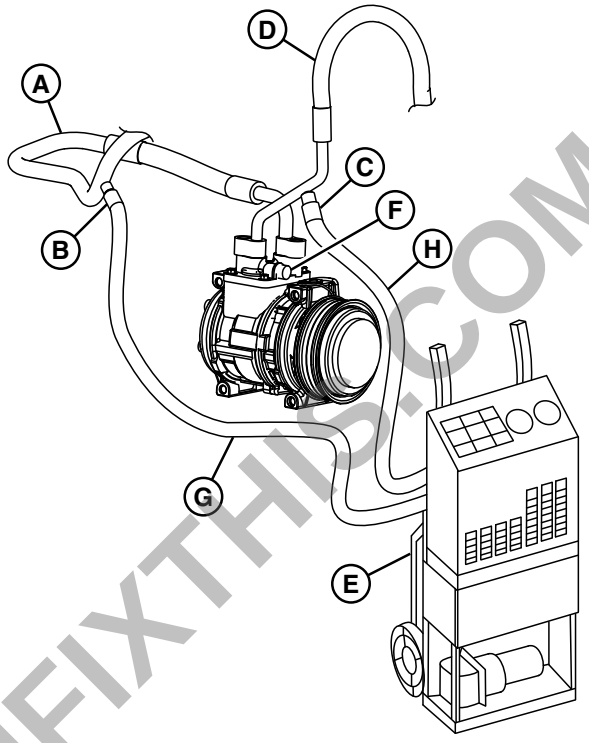
IMPORTANT: Use correct refrigerant recovery, recycling and charging stations. DO NOT mix refrigerant, hoses, fittings, components or refrigerant oils.

1. Connect JT02045 R134a refrigerant recovery, recycling and charging station. See R134a Refrigerant Recovery, Recycling and Charging Station Installation Procedure. (Group 1830.)
2. Evacuate the system. See Evacuate R134a System. (Group 1830.)

NOTE: Before beginning to charge air conditioning system, the following conditions must exist: Engine STOPPED, the pump must be capable of pulling at least 28.6 in. Hg vacuum (sea level). Subtract 3.4 kPa (34 mbar) (1 in. Hg) from 98 kPa (980 mbar) (29 in. Hg) for each 300 m (1000 ft) elevation above sea level.

3. Follow the manufacturers' instructions and charge the system.
4. Add refrigerant until system is charged to specification.

Specification	
Refrigerant—Weight	1.4 kg 3.0 lb



TX1068526 —UN—17DEC09

R134a Refrigerant Recovery, Recycling and Charging Station

A—Low Pressure Line
B—Low Pressure Diagnostic Port
C—High Pressure Diagnostic Port
D—High Pressure Line
E—R134a Refrigerant Recovery/Recycling and Charging Station
F—High Pressure Relief Valve
G—Blue Hose
H—Red Hose

TK40086,0000727 -19-12FEB10-1/1

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High Flow Hydraulic Pump Remove and Install

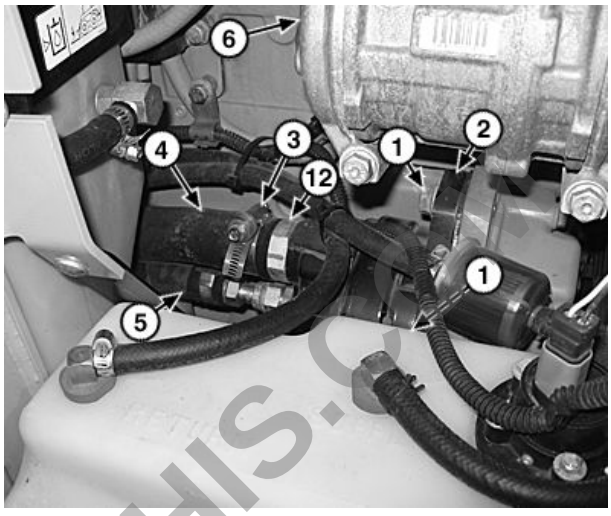
1. Park machine on flat level surface.
2. Raise boom and engage boom lock.

CAUTION: To avoid injury from escaping fluid under pressure, stop engine and relieve the pressure in the system before disconnecting or connecting hydraulic or other lines. Tighten all connections before applying pressure.

3. Relieve hydraulic system pressure. See Hydraulic System Pressure Release. (Group 9025-25.)
4. Raise engine cover and remove left side panel. See Side Panel Remove and Install. (Group 1910.)

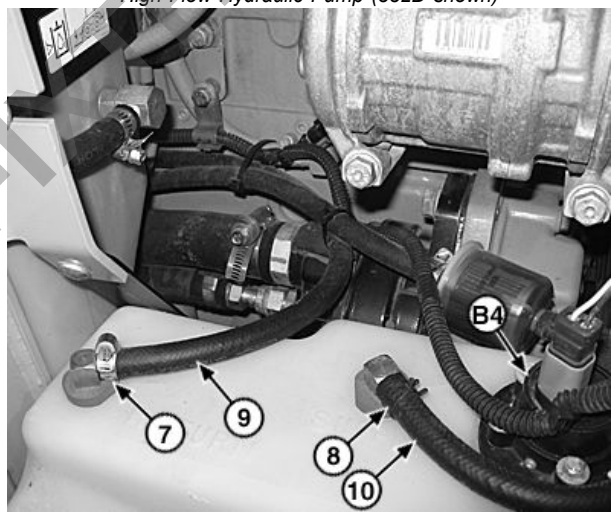
NOTE: Air conditioning compressor lines **do not** *need to be disconnected to remove high flow hydraulic pump.*

5. Remove air conditioning compressor from mounting bracket, and move out of way.
6. Drain hydraulic reservoir below high flow suction hose (4).
   - For 326D and 328D, see 326D and 328D Drain and Refill Capacities. (Operator's Manual.)
   - For 329D and 333D, see 329D and 333D Drain and Refill Capacities. (Operator's Manual.)
   - For 332D, see 332D Drain and Refill Capacities. (Operator's Manual.)
7. Clamp fuel hoses (9 and 10) to prevent fuel leakage during removal.
8. Loosen hose clamps (7 and 8) and disconnect fuel hoses from 90° elbow fittings on fuel tank.
9. Disconnect wiring harness from fuel level sensor (B4).
10. Disconnect high flow suction hose from straight fitting (12) in high flow hydraulic pump (2).
11. Remove straight fitting from high flow hydraulic pump.
12. Disconnect high flow pressure hose (5) from straight fitting in high flow hydraulic pump. Cap and plug all hoses and openings.
13. Remove cap screws (1), high flow hydraulic pump, gaskets and gasket plate from engine auxiliary drive.



TX1069400A —UN—21JAN10

High Flow Hydraulic Pump (332D shown)



TX1069965A —UN—21JAN10

Fuel Tank (332D shown)

1— Cap Screw (2 used)
2— High Flow Hydraulic Pump
3— Hose Clamp
4— High Flow Suction Hose
5— High Flow Pressure Hose
6— Air Conditioning Compressor
7— Hose Clamp
8— Hose Clamp
9— Fuel Hose
10— Fuel Hose
12— Straight Fitting
B4— Fuel Level Sensor

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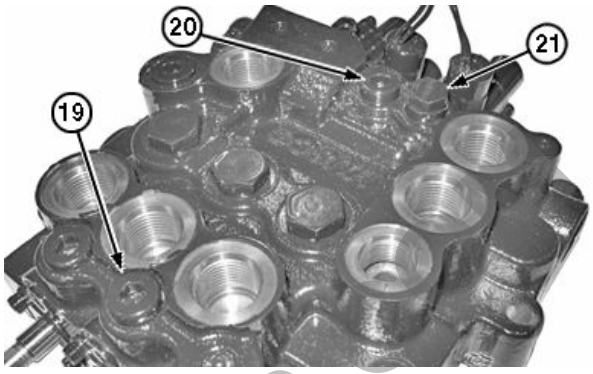
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IMPORTANT: Prevent possible damage to control valve from installing circuit relief valves to wrong circuit. Label each circuit relief valve to aid in proper assembly.

12. Mark circuit relief valve to control valve location and orientation for each circuit relief valve.
13. Remove circuit relief valves (19—21).

19— Bucket Dump Circuit Relief Valve
20— Bucket Curl Circuit Relief Valve
21— Boom Up Circuit Relief Valve



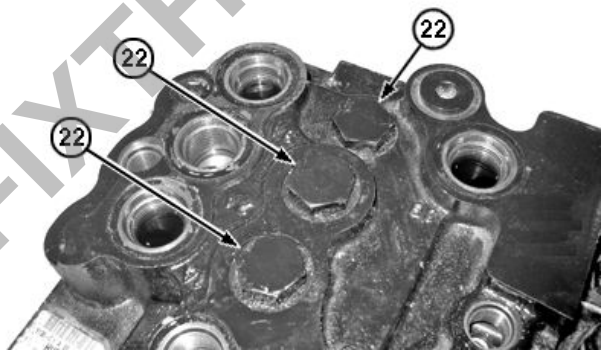
TX1030790A —UN—24OCT07

Circuit Relief Valves

RM58335,0000645 -19-25FEB10-6/27

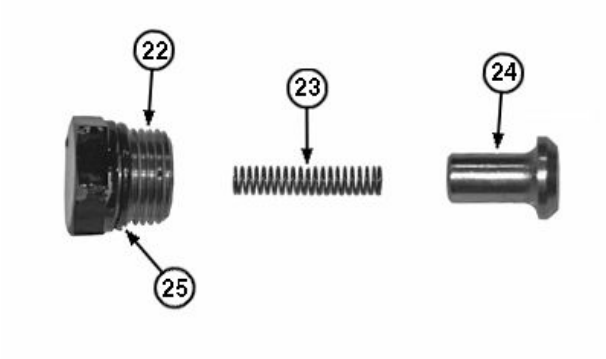
14. Remove lift check valve caps (22), springs (23), and poppets (24) from control valve.

22— Cap (3 used)
23— Spring (3 used)
24— Poppet (3 used)
25— O-Ring (3 used)



TX1030793A —UN—24OCT07

Lift Check Valves



TX1030890A —UN—24OCT07

Lift Check Valve (single lift check valve shown for clarity)

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