450J, 550J, 650J Crawler Dozer Repair

(Serial No. - 141666)

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TECHNICAL MANUAL

450J, 550J, 650J Crawler Dozer Repair (S.N. —141666)

TM2258 29JUL15 (ENGLISH)

For complete service information also see:

450J, 550J and 650J Crawler Dozer Operation and Test (S.N. —141666)	TM2257
450J, 550J and 650J Crawler Dozer Operator's Manual	OMT204685
POWERTECH® 4.5L & 6.8L Diesel Engines Base Engine	CTM104
POWERTECH®4.5L & 6.8L Diesel Engines Level 12 Electronic Fuel System With Stanadyne DE10 Pump	CTM331
Alternators and Starting Motors	CTM77
4000S Winches	CTM166
100, 120, 125, 185, 225 Series Hydraulic Cylinders	CTM120519
Super Caddy Oil Cleanup Procedure	CTM310
SERVICE ADVISOR™ System Computer Connection	T133991
Undercarriage Appraisal Manual	SP326VOL1
Specifications Manual	SP458VOL2

Worldwide Construction And Forestry Division

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Group 03—Torque Values

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Group 0201—Drive Axle Housing and Support
Group 0250—Axle Shaft, Bearings, and Reduction Gear

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Group 0300—Removal and Installation
Group 0315—Controls Linkage
Group 0360—Hydrostatic System

Section 04—Engine
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Group 0999—Dealer Fabricated Tools

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

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Recognize Safety Information

This is the safety alert symbol. When you see this symbol on your 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 your 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.



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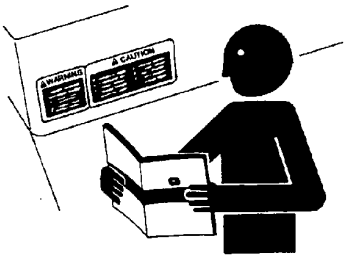
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TX03679,00016CC -19-05FEB10-1/1

Follow Safety Instructions

Read the safety messages in this manual and on the machine. Follow these warnings and instructions carefully. Review them frequently. 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.

Be sure all operators of this machine understand every safety message. Replace operator's manual and safety labels immediately if missing or damaged.



T133556 —UN—24AUG00

TX03679,00016F9 -19-14JAN08-1/1

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.

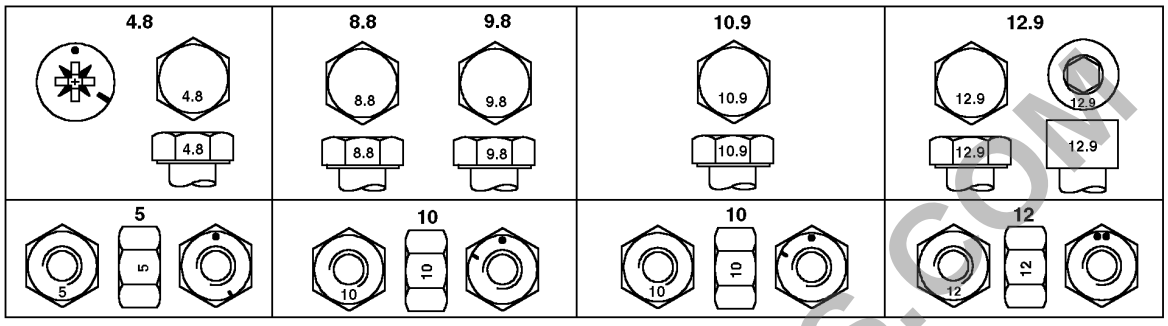
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Metric Bolt and Cap Screw Torque Values

METRIC BOLT AND CAP SCREW TORQUE VALUES—Tolerance is ±10% unless otherwise specified



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

TORQ2—UN—15APR13

	Class 4.8		Class 8.8 or 9.8		Class 10.9		Class 12.9	
Thread Size	Lubricated[a] Nm (lb-ft)	Dry[b] Nm (lb-ft)	Lubricated[a] Nm (lb-ft)	Dry[b] Nm (lb-ft)	Lubricated[a] Nm (lb-ft)	Dry[b] Nm (lb-ft)	Lubricated[a] Nm (lb-ft)	Dry[b] Nm (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.*

CAUTION: Use only metric tools on metric hardware. Other tools may not fit properly. Tool may slip and cause injury.

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.

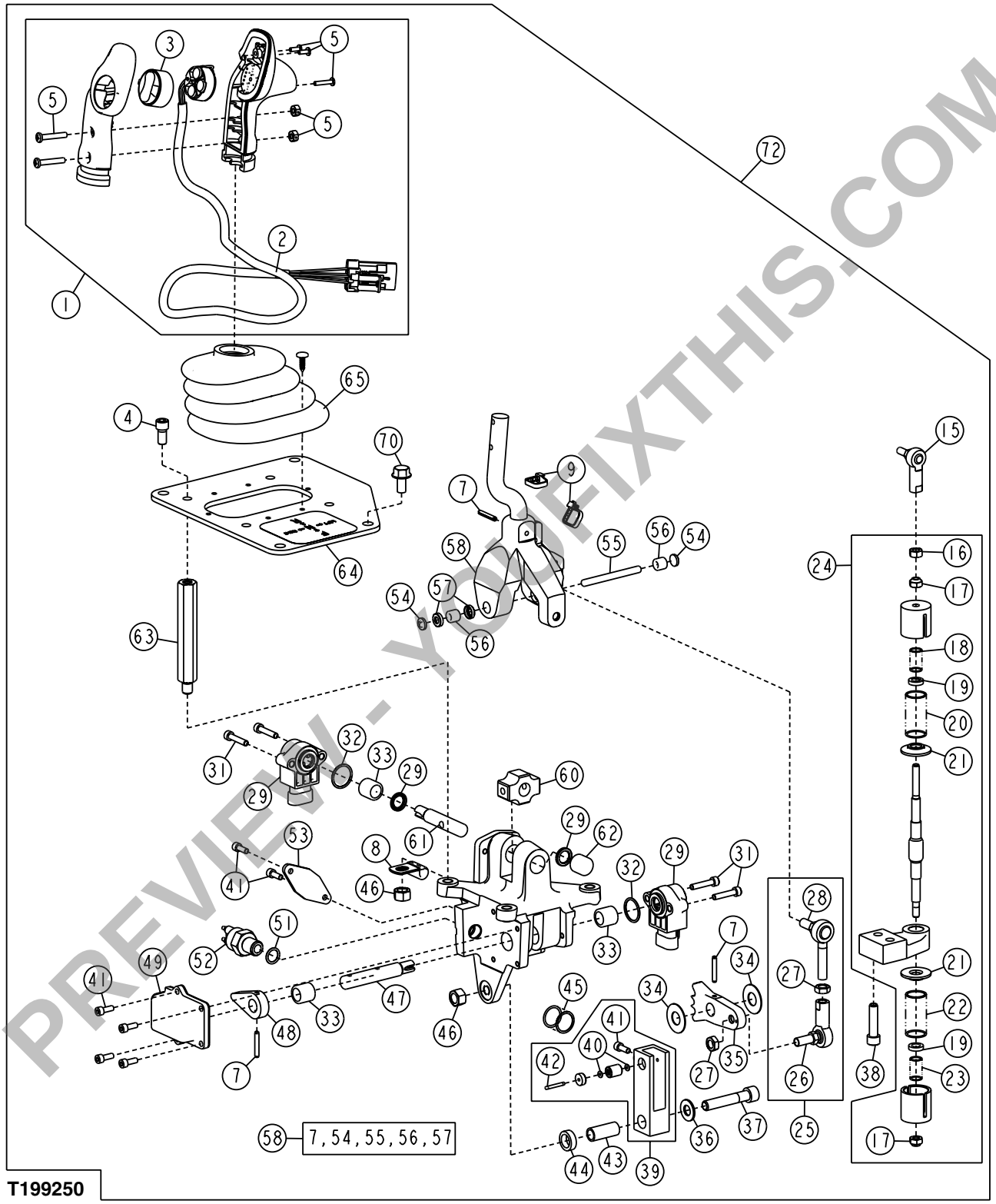
Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

OUT3035,TORQUE2 -19-22MAR04-1/1

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Transmission Control Lever (TCL) Disassemble and Assemble (S.N. —130885)



Transmission Control Lever (TCL)

Continued on next page

CED,OUTX547,108 -19-29SEP99-1/30

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CAUTION: Rock Guard is heavy and can cause injury if not moved properly. Use adequate lifting device to move rock guard.

Rock Guard—Specification

Rock Guard—Approximate Weight	100 kg 220 lb

1. Use a chain and hoist when removing rock guards. Inspect parts, replace if necessary.
2. Tighten rock guard cap screws.

Rock Guard—Specification

Rock Guard-to-Track Frame Cap Screws—Torque	203 N·m 150 lb-ft
Rock Guard-to-Spacer-to-Rock Guard Cap Screws—Torque	278 N·m 205 lb-ft

3. Tighten chain guide cap screws.

Chain Guides—Specification

Chain Guides-to-Track Frame Cap Screws—Torque	203 N·m 150 lb-ft
Chain Guide-to-Spacer-to-Rock Guard Cap Screws—Torque	278 N·m 205 lb-ft

CED,OUTX547,66 -19-19JAN06-2/2

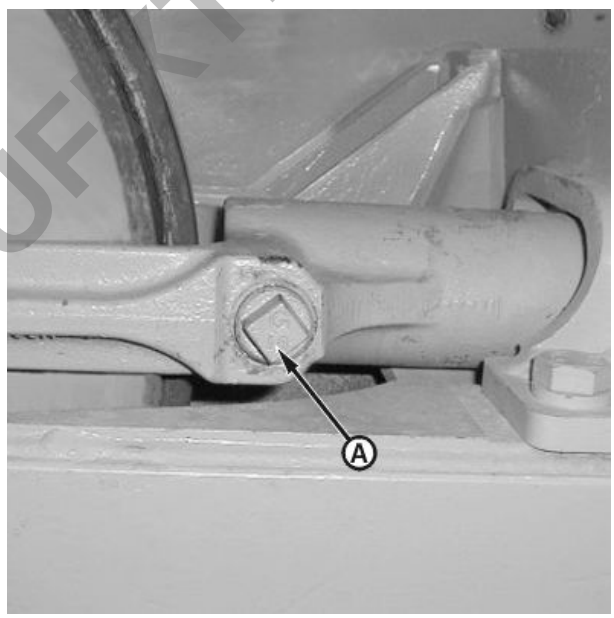
Carrier Roller Remove and Install

CAUTION: Grease for track adjuster cylinder is under high pressure. Never remove grease fitting to release the grease. If grease does not escape immediately from vent hole when fitting has been loosened, slowly drive unit in forward and reverse until grease escapes. DO NOT disassemble parts unless you know the correct procedure and have correct tools. (See your authorized dealer.)

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 may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.

1. Remove access plug (A).

A—Access Plug



T118011B —UN—11NOV98

Continued on next page

TE14778,0000043 -19-04MAY06-1/3

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Hydrostatic Pump Remove and Install

CAUTION: Prevent possible injury from unexpected track movement. Raise the machine off the ground and support with blocks. Tracks MUST be free to rotate in either direction to perform Hydrostatic Pump Initial Startup Procedure and Pump Displacement Control Valve Neutral (Null) Adjustment.

1. Raise machine off the ground and support with blocks. Lower blade to ground. Tracks MUST be free to rotate in either direction.
2. Turn battery disconnect switch to OFF.

NOTE: The approximate capacity of hydrostatic reservoir is 43 L (11.3 gal).

3. Remove access plate from bottom of hydrostatic reservoir compartment and drain reservoir.

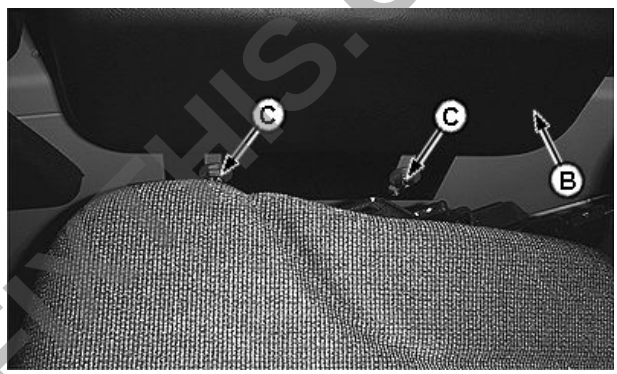
NOTE: The approximate capacity of engine coolant is 11.3 L (3 gal).

4. If equipped with heater, drain engine coolant.
5. Remove floor mat and floor access plate.
6. For machines with toolbox, pull out drawer and remove cap screw holding toolbox in place. Remove toolbox from machine.
7. Remove four cap screws (A) from around seat box bottom.
8. Remove shoulder cap screws (C) from seat box under armrest (B) on both sides of seat.
9. Remove two cap screws from knee pad (E) on both sides of seat.

IMPORTANT: Observe control levers as seat is being raised or lowered for possible interference.



T116758B —UN—03SEP98



T116757B —UN—21AUG98

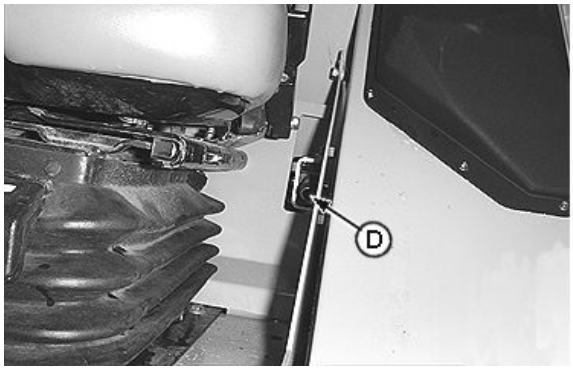
A—Cap Screws Around Seat Box Bottom (4 used)
B—Armrest
C—Shoulder Cap Screws (2 used)
E—Knee Pad

10. Loosen jam nut on hydraulic control lever tee handle and index handle 90° to provide clearance for seat when tilting.
11. On units equipped with rear screen or cab, tilt back of seat forward.

CED,TX03399,5046 -19-04DEC09-1/13

12. Tilt seat up as far as possible with jack screw (D) located in left rear corner of seat box.

D—Jack Screw



T200435A —UN—27MAY04

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CED,TX03399,5046 -19-04DEC09-2/13

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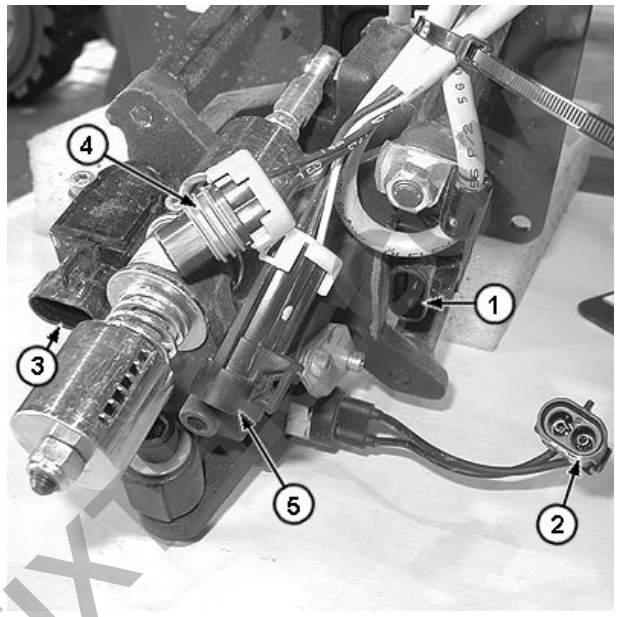
Transmission Control Lever (TCL) Remove and Install

1. Turn battery disconnect switch to the OFF position.

NOTE: Mark electrical connectors to aid in assembly.

2. Disconnect rotary sensors (1 and 3) and neutral start switch (2).
3. Disconnect harness connectors (4 and 5) to transmission speed control switch and horn button.

1— Steer Sensor
2— Neutral Start Switch
3— FNR Sensor
4— Harness to Horn Switch
5— Harness to Transmission Switch

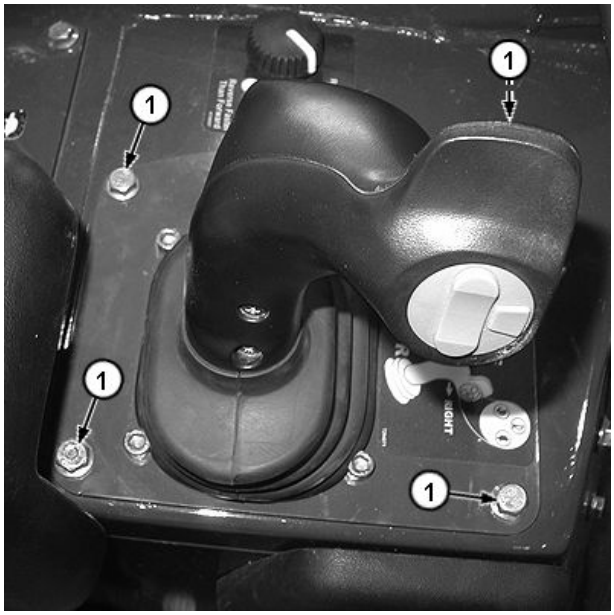


T199271A —UN—16APR04

CED,TX03543,2276 -19-09SEP99-1/2

4. Remove four hex flange screws and transmission control lever (TCL) assembly.
5. Install transmission control lever (TCL) assembly using four hex flange screws.
6. Connect rotary sensors (1 and 3) and neutral start switch (2).
7. Turn battery disconnect switch to the ON position.
8. Adjust transmission control lever (TCL). See Transmission Control Lever (TCL) Adjustment. (Group 9015-20.)
9. Recalibrate transmission controller. See Transmission Control Unit (TCU) Calibration. (Group 9015-20.)

1— Hex Flange Screw



T199276A —UN—16APR04

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Track Roller Remove and Install

1. Track rollers can be removed without disconnecting track. Release track tension to provide sufficient clearance. See Adjust Track Sag. (Operator's Manual.)
2. If machine is equipped with rock guards, remove outer rock guard and loosen inner rock guard cap screws.

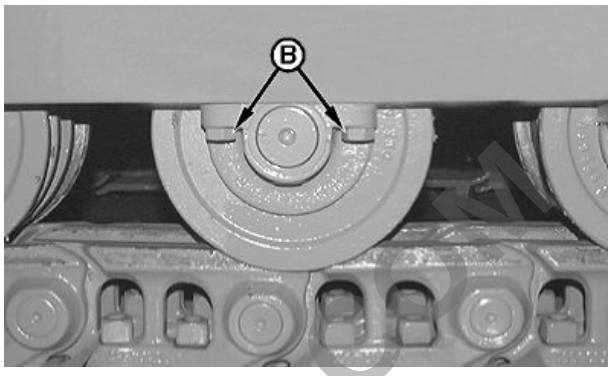
   If machine is equipped with chain guides, remove rear chain guide.

CAUTION: Prevent possible injury from unexpected machine movement. Put shop stands under frame to support machine while removing lower track roller.

Specification

Machine—Weight (approximate)	8391 kg 18 500 lb

3. Raise crawler to provide a clearance for roller removal. Put shop stands under machine.
4. Remove four roller bracket cap screws (B) to remove roller assembly.
5. Measure track roller tread diameter.
   - See 450J, 550J, 550K Track Roller Tread Diameter. (SP326.)
   - See 605C, 605K, 650J, 650K Track Roller Tread Diameter. (SP326.)
6. Repair or replace parts as necessary. See Track Roller Disassemble and Assemble. (Group 0130.)
7. Install roller assembly and tighten cap screws (B).



T113330 —UN—12FEB98

B—Cap Screw

Track Roller—Specification

Roller Bracket-to-Track Frame Cap Screw—Torque	203 N·m 150 lb-ft

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NOTE: Steer sensor and forward/reverse sensors are interchangeable.

44.

Install sensors (1 and 2) and O-rings. Tighten cap screws to specifications.

Single Lever Control—Specification

Steer Sensor Mounting Cap Screws—Torque	5 N·m 4 lb-ft 48 lb-in.
Forward/Reverse Sensor Mounting Cap Screws—Torque	5 N·m 4 lb-ft 48 lb-in.

45. Install neutral start switch (4) and tighten to specifications.

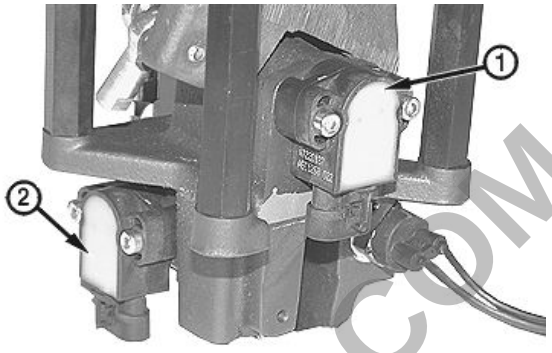
Single Lever Control—Specification

Neutral Start Switch—Torque	14 N·m 10 lb-ft 124 lb-in.

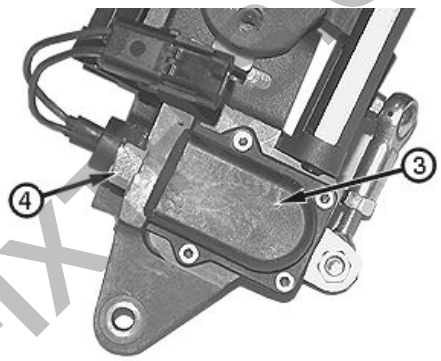
46. Install cover (3) and tighten cap screws to specifications.

Single Lever Control—Specification

Neutral Start Switch Cover Cap Screws—Torque	5 N·m 4 lb-ft 48 lb-in.



T119644B —UN—19JAN99



T119645B —UN—19JAN99

1— Steer Sensor
2— Forward/Reverse Sensor
3— Cover
4— Neutral Start Switch

Continued on next page

CED,OUTX547,108 -19-29SEP99-22/30

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36. Apply clean hydrostatic oil to valve segment and bearing plate mating surfaces. Install end cap assembly and valve segment. The spindle must engage the bearing in the cylinder block.

IMPORTANT: DO NOT allow the pistons or synchronizer shaft rollers to fall out of position. Internal machine damage can occur.

37. Install hex socket head cap screws (19).

NOTE: The internal spring in the motor shaft should hold the end cap away from the housing a short distance.

38. Tighten the screws by hand in the sequence shown (1—8) while rotating the motor shaft to ensure proper positioning of the synchronizer shaft rollers.

IMPORTANT: DO NOT force the end cap into position on the housing. Internal machine damage can occur.

39. Tighten screws using sequence shown to approximately 1/2 final torque value. Repeat sequence and tighten to final torque.

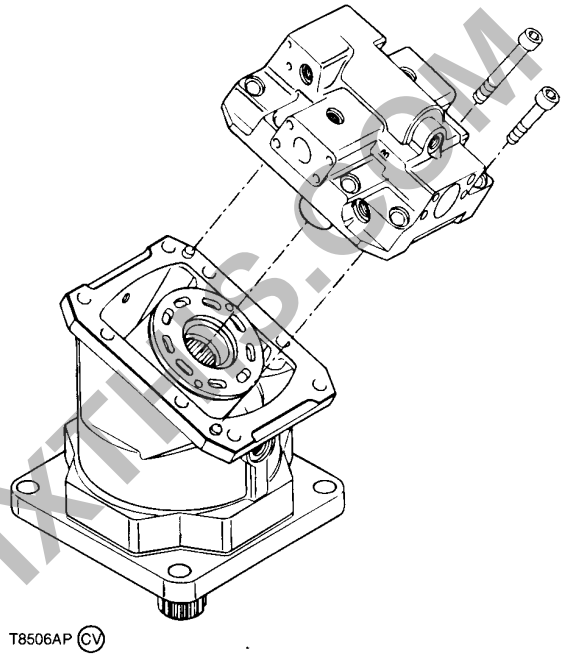
Specification	
Motor End Cap-to-Housing Cap Screw——Torque	74 N·m 55 lb.-ft.

40. Rotate shaft 360° to check final assembly.

41. Install gasket (9) and solenoid valve assembly onto end cap housing with hex socket head cap screws (8).

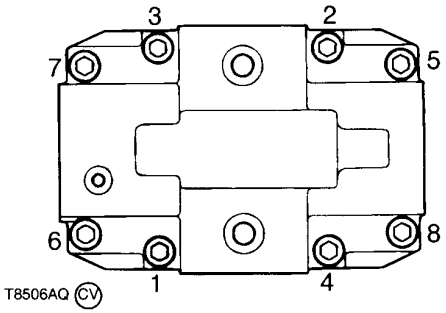
42. Tighten screws to specification.

Specification	
Solenoid Valve-to-End Cap Screw——Torque	110 N·m 81 lb.-ft.



T8506AP —UN—10JUL95

End Cap Assembly & Valve Segment



T8506AQ —UN—10JUL95

Screw Torque

TE14778,0000020 -19-21JUL09-13/13

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Fuel Tank Remove and Install

1. Remove cab or ROPS. See Cab or ROPS Remove and Install. (Group 1800.)
2. Remove rear access cover.
3. Drain fuel tank and disconnect fuel supply line, located by the fuel shut-off drain cock.

Specification

Fuel Tank—Capacity	178 L 47 gal

4. Cut tie band (1) and disconnect components (2—4).
5. Loosen cap screw (5) on both sides. Remove cap screws (6) and install lifting brackets.
6. Inspect fuel screen connected to the fuel shut-off valve.

CAUTION: Prevent possible crushing injury from removing fuel tank. Use proper lifting equipment and safety precautions.

Fuel Tank—Specification

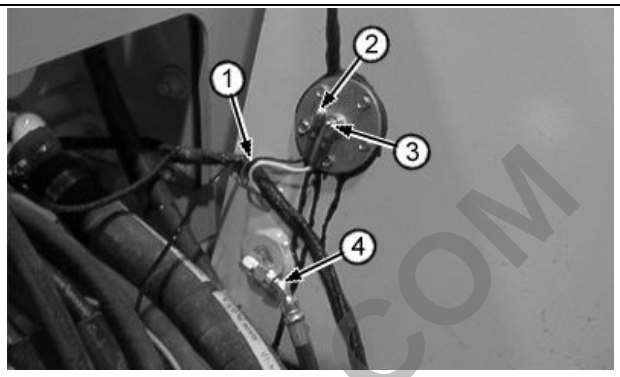
450J Fuel Tank—Weight	68 kg 150 lb
550J and 650J Fuel Tank—Weight	86 kg 190 gal

7. Attach chain and hoist to fuel tank.
8. Remove four cap screws (7) on bottom of fuel tank.
9. Install fuel tank. Tighten cap screws to specification.

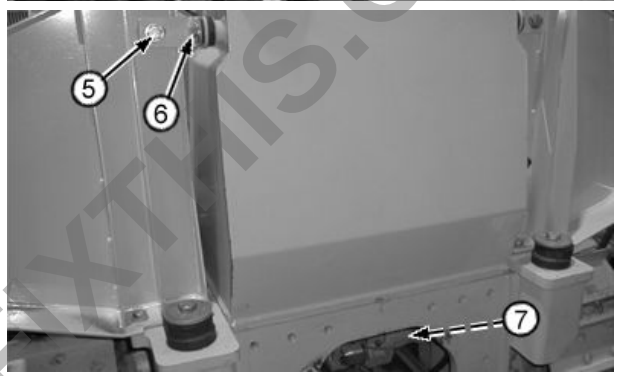
Fuel Tank—Specification

Main Frame-to-Fuel Tank Cap Screws—Torque	319 N·m 235 lb-ft
Fuel Tank Brackets to Hydrostatic/Hydraulic Reservoirs—Torque	244 N·m 180 lb-ft
Brackets-to-Isolators-to-Fuel Tank Cap Screws—Torque	87 N·m 64 lb-ft

10. Connect components (2—4) and fuel supply line. Install new tie band (1).



T117744B —UN—19OCT98



T117888B —UN—19OCT98

1— Tie Band
2— Black Wire Lead
3— Yellow Wire Lead
4— Fuel Return Hose
5— Bracket-to-Hydraulic/Hydrostatic Reservoir Cap Screw (2 used)
6— Bracket-to-Isolator to Fuel Tank Cap Screw (2 used)
7— Main Frame-to-Fuel Tank Cap Screw (4 used)

Fuel Tank—Specification

Fuel Sender Float Cap Screws—Torque	10 N·m 90 lb-in.

11. Fill fuel tank with proper amount of correct fuel.

Fuel Tank—Specification

Fuel Tank—Capacity	178 L 47 gal

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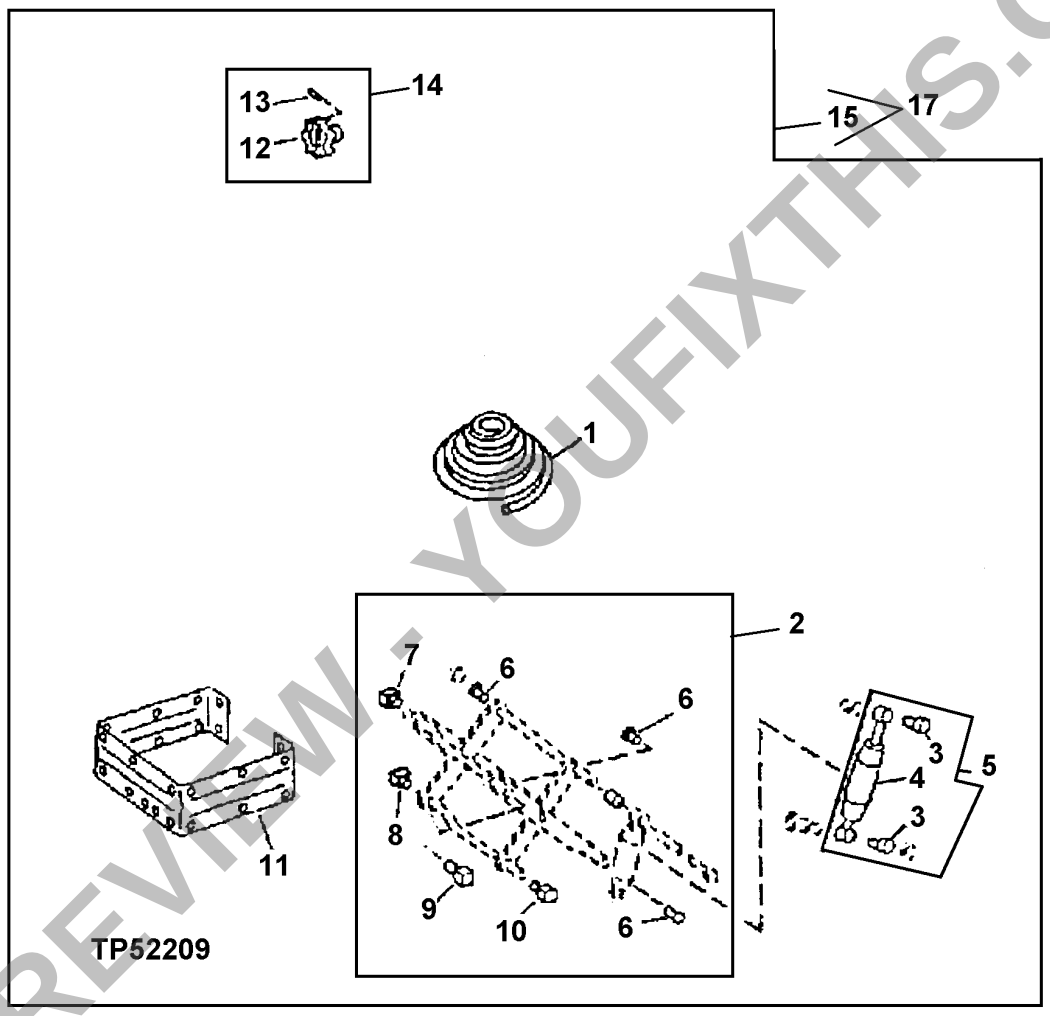
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1— Standard Seat Suspension Assembly
2— Armrest (2 used)
3— Armrest Bracket (2 used)
4— Washer (8 used)
5— Cap Screw (4 used)
6— Cap Screw (4 used)
7— Seat Belt
8— Seat Pad
9— Bracket
10— Washer (8 used)
11— Lock Nut (4 used)
12— Cap Screw (4 used)
13— Rivet (4 used)
14— Holder
15— Back Pad

CAUTION: Prevent possible crushing injury from seat suspension. Use proper lifting equipment and safety precautions.

1. Remove parts as necessary.
2. Install parts as necessary.

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TP52209 —UN—14JAN99

Standard Seat Suspension

1— Spring
2— Suspension Bearing Kit
3— Bushing (2 used)
4— Absorber
5— Shock Absorber Kit
6— Bushing (4 used)
7— Bar
8— Bar
9— Bar
10— Bar
11— Boot with Plugs
12— Knob
13— Spring Pin
14— Height and Weight Adjustable Knob Kit
15— Guard Suspension Assembly
17— Standard Seat Suspension Assembly

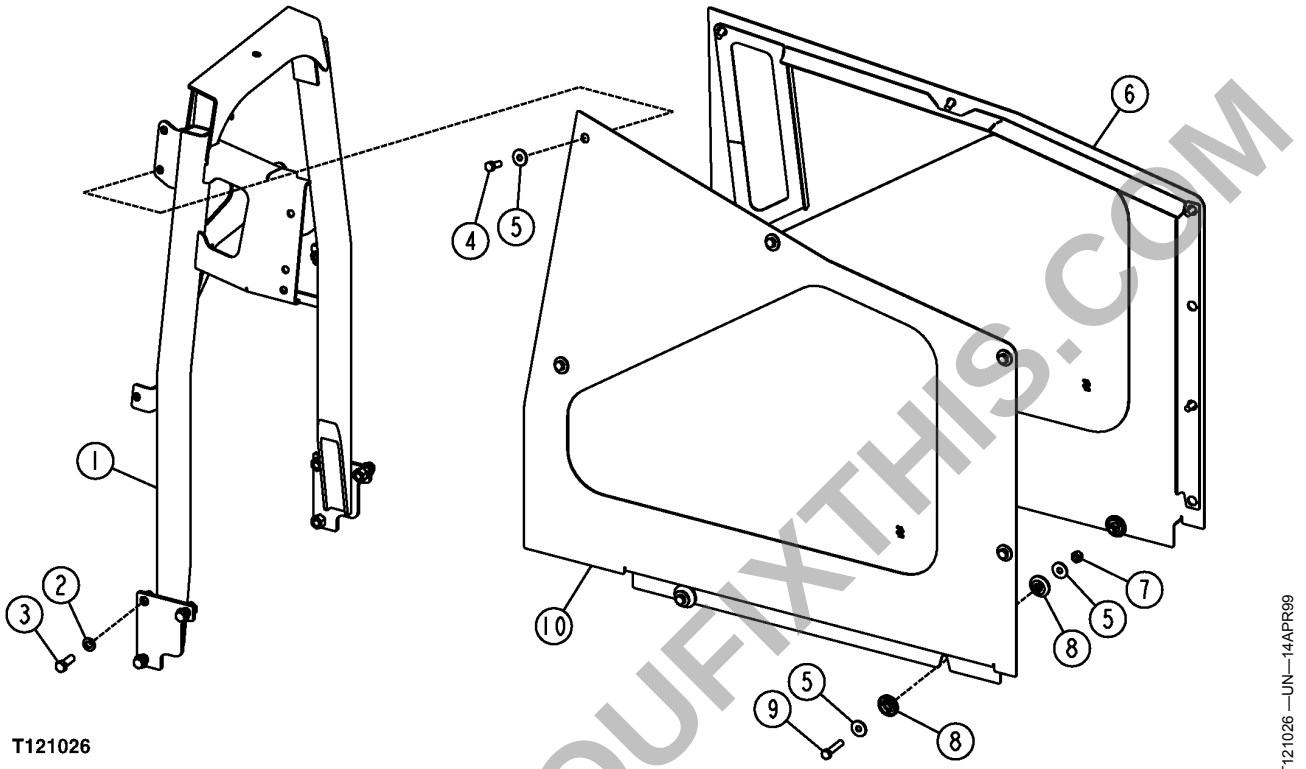
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Hood Support and Engine Side Shields Remove and Install



1— Hood Support
2— Washer (6 used)
3— Cap Screw (6 used)
4— Cap Screw (10 used)
5— Washer (18 used)
6— Shield (Left Engine Side)
7— Nut (4 used)
8— Guide (8 used)
9— Cap Screw (4 used)
10— Shield (Right Engine Side)

1. Remove and install when necessary.
2. Tighten cap screws.

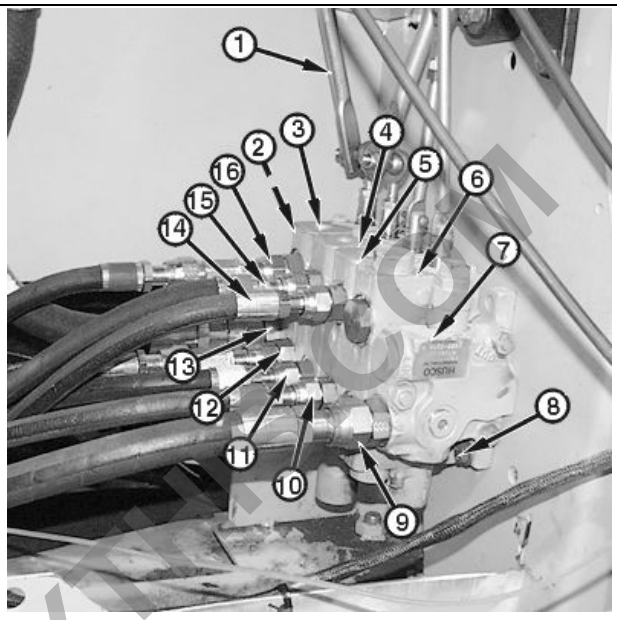
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Hydraulic Control Valve Remove and Install

1. Lower all equipment to ground and stop engine.
2. Relieve hydraulic system pressure.
3. Turn battery disconnect switch to OFF.
4. Apply a vacuum to hydraulic reservoir.
5. Disconnect linkage rods (1).
6. Mark and disconnect hoses (9—16). Cap and plug all openings.
7. Remove cap screws (8) and remove control valve.
8. Install control valve using cap screws (8).
9. Connect hoses (9—16).
10. Connect linkage rods (1).
11. Remove vacuum from reservoir.
12. Check and fill hydraulic reservoir as needed.
13. Turn battery disconnect switch to ON.
14. Start machine and check for leaks.



T118949B —UN—15JAN99

1— Linkage Rods (4 used)
2— Outlet Section
3— Lift Section
4— Tilt Section
5— Angle Section
6— Auxiliary Section
7— Inlet Section
8— Cap Screw (3 used)
9— Inlet Valve-to-Hydraulic Pump Hose
10— Angle Valve-to-Right Angle Cylinder Rod End and Left Cylinder Head End Hose
11— Tilt Valve-to-Tilt Cylinder Head End Hose
12— Lift Valve-to-Lift Cylinders Head End Hose
13— Outlet Valve-to-Hydraulic Filter Hose
14— Angle Valve-to-Left Angle Cylinder Rod End and Right Cylinder Head End Hose
15— Tilt Valve-to-Tilt Cylinder Rod End Hose
16— Lift Valve-to-Lift Cylinders Rod End Hose

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