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Group 0001 - Safety Information

Handle Fluids Safely-Avoid Fires



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.

Prevent Battery Explosions



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).

Prepare for Emergencies

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300D Backhoe Loader

300D Specifications

Key:	Backhoe	Extendible Dipperstick	
		Retracted	Extended
A-Loading height, truck loading position	10 ft 9 in. (3.29 m)	11 ft 1 in. (3.37 m)	12 ft 9 in. (3.88 m)
B-Reach from center of swing mast	17 ft 3 in. (5.25 m)	17 ft 3 in. (5.25 m)	20 ft 10 in. (6.36 m)
C-Reach from center of rear axle	20 ft 7 in. (6.28 m)	20 ft 7 in. (6.28 m)	24 ft 3 in. (7.39 m)
D-Digging depth (SAE):			
(1) 2 ft (610 mm) flat bottom	13 ft 10 in. (4.21 m)	13 ft 10 in. (4.21 m)	17 ft 8 in. (5.38 m)
(2) 8 ft (2440 mm) flat bottom	12 ft 8 in. (3.87 m)	12 ft 8 in. (3.87 m)	16 ft 10 in. (5.13 m)
E-Maximum digging depth	14 ft (4.27 m)	14 ft (4.27 m)	17 ft 9. in. (5.41 m)
F-Ground clearance, minimum	13 in. (330 mm)	13 in. (330 mm)	13 in. (330 mm)
G-Bucket rotation	160° or 180°	160° or 180°	160° or 180°
H-Transport height	12 ft 0 in. (3.67 m)	12 ft 0 in. (3.67 m)	12 ft 0 in. (3.67 m)
I-Overall length, transport	22 ft 6 in. (6.85 m)	22 ft 6 in. (6.85 m)	22 ft 6 in. (6.85 m)
J-Stabilizer width, transport	7 ft 4 in. (2.23 m)	7 ft 4 in. (2.23 m)	7 ft 4 in. (2.23 m)
K-Stabilizer spread, operating	8 ft 11 in.(2.71 m)	8 ft 11 in. (2.71 m)	8 ft 11 in. (2.71 m)
L-Overall width (less loader bucket)	6 ft 11 in. (2.11 m)	6 ft 11 in. (2.11 m)	6 ft 11 in. (2.11 m)
Digging force, bucket cylinder (power dig position)	10225 lb (45.5 kN)	10250 lb (45.6 kN)	10225 lb (45.5 kg)
Digging force, crowd cylinder	5530 lb (24.6 kN)	5530 lb (24.6 kN)	3365 lb (15.0 kN)
Swing arc	180 degrees	180 degrees	180 degrees
Operator control	Two levers	Right foot treadle	Right foot treadle
Bucket positions	21° or 30° rollback	19° or 28° rollback	22° or 32° rollback
Stabilizer angle rearward	12°	12°	12°
Lifting capacity, maximum boom @ 65°	2700 lb (1225 kg)	2600 lb (1180 kg)	1550 lb (700 kg)

→NOTE:

Backhoe specifications are with 24-in. (610 mm) standard bucket.

300D Specifications

Key:	Loader With 1.5 yd^3 (1.15 m^3) Bucket
M-Wheelbase	83 in. (2100 mm)
N-Dig below ground-bucket level	4 in. (100 mm)
O-Rollback at ground level	40°
P-Dump clearance, bucket at 40°	8 ft. 10 in. (2.69 m)
Q-Maximum height to bucket hinge pin	10 ft. 11 in. (3.33 m)
R-Maximum bucket dump angle	45°
S-Reach at full height, bucket at 40°	28 in. (711 mm)

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300D Backhoe Loader Buckets

300D Specifications-Loader

Loader:	Width mm (in.)	Heaped Capacity m^3 (Cu Yd)	Weight kg (lb)
General purpose	2057 (81)	0.67 (0.88)	249 (550)
	2340 (92)	0.76 (1.00)	367 (810)
Multi-purpose	2134 (84)	0.86 (1.12)	345 (760)

300D Specifications-Backhoe

Backhoe:	Width mm (in.)	Heaped Capacity m^3 (Cu Yd)	Weight kg (lb)
Standard	305 (12)	0.07 (2.5)	111 (244)
	406 (16)	0.10 (3.6)	122 (268)
	457 (18)	0.12 (4.1)	126 (278)
	610 (24)	0.17 (6.0)	149 (328)
	762 (30)	0.22 (7.9)	165 (364)
	914 (36)	0.28 (10.0)	195 (439)
Heavy	305 (12)	0.07 (2.5)	117 (258)
Duty	457 (18)	0.14 (5.1)	137 (302)
	610 (24)	0.17 (6.0)	151 (334)
	610 (24)	0.21 (7.5)	158 (348)
Extra	457 (18)	0.14 (5.1)	164 (362)
Heavy	610 (24)	0.21 (7.5)	192 (424)
Duty	762 (30)	0.28 (10.0)	215 (474)

300D Backhoe Loader Drain And Refill Capacities

300D-Drain And Refill Capacities

	Metric	U.S.
Engine coolant	16 L	17 qt
Engine oil (including filter)	8.5 L	9 qt
Torque converter and reverser	7.5 L	8 qt
Transaxle		
(without MFWD)	21 L	22 qt
(with MFWD)	22 L	23 qt
Fuel tank		
Serial No. -802199	106 L	28 gal
Serial No. 802200-	129 L	34 gal
Hydraulic system reservoir	41.5 L	44 qt

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Group 0003 - Torque Values

Hardware Torque Specifications

Check cap screws and nuts to be sure they are tight. If hardware is loose, tighten to torque shown on the following charts unless a special torque is specified.

Checking Wheel Fasteners



Tighten Wheel Cap Screws



Tighten Wheel Cap Screws

Tighten wheel cap screws and fasteners.

Item	Measurement	Specification
Front Axle		
Standard Axle	Torque	136 +20 -27 N·m (100 +15 -20 lb-ft)
MFWD Axle	Torque	300 +110 -40 N·m (221 +81 -29 lb-ft)
Rear Axle		
Standard Axle	Torque	575 +170 -115 N·m (425 +125 -85 lb-ft)

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Group 0110 - Powered Wheels And Fastenings

Service Equipment And Tools

→NOTE:

Order tools from your SERVICEGARD ™ Catalog. Some tools may be available from a local supplier.

Floor Stand

To support unit while removing and installing wheels.

Heavy Duty Wheel Lift

To remove and install wheels.

Specifications

Item	Measurement	Specification
Rear Wheel-to-Axle Cap Screw	Torque	575 +170 -115 N·m (425 +125 -85 lb-ft)
Front Wheel-to-Axle Nut (MFWD)	Torque	300 +100 -40 N·m (221 +73 -29 lb-ft)

Item	Measurement	Specification
Rear Wheel		
16.9 x 24 -8 PR	Operating Pressure	193 ± 13 kPa (1.93 ± 0.13 bar) (28 ± 2 psi)
16.9 x 28 (315D)	Operating Pressure	193 ± 13 kPa (1.93 ± 0.13 bar) (28 ± 2 psi)
17.5 x 24 -10 PR	Operating Pressure	221 ± 13 kPa (2.21 ± 0.13 bar) (32 ± 2 psi)
17.5L x 24 (300D)	Operating Pressure	179 ± 13 kPa (1.79 ± 0.13 bar) (26 ± 2 psi)
19.5 x 24 (310D) -8 PR	Operating Pressure	165 ± 13 kPa (1.65 ± 0.13 bar) (24 ± 2 psi)
19.5 x 24 (310D) -10 PR	Operating Pressure	193 ± 13 kPa (1.93 ± 0.13 bar) (28 ± 2 psi)
19.5 x 24 (310D) -12 PR	Operating Pressure	235 ± 13 kPa (2.35 ± 0.13 bar) (34 ± 2 psi)
21L x 24 (310D)	Operating Pressure	179 ± 13 kPa (1.79 ± 0.13 bar) (26 ± 2 psi)
Front Wheel		
11 x 15 -8 PR	Operating Pressure	300 ± 13 kPa (3.00 ± 0.13 bar) (44 ± 2 psi)
11 x 15 -10 PR	Operating Pressure	360 ± 13 kPa (3.60 ± 0.13 bar) (52 ± 2 psi)
11 x 16 (315D)	Operating Pressure	441 ± 13 kPa (4.41 ± 0.13 bar) (64 ± 2 psi)
12 x 16.5 (300D, 315D)	Operating Pressure	414 ± 13 kPa (4.14 ± 0.13 bar) (60 ± 2 psi)
14 x 17.5 (310D) -8 PR	Operating Pressure	276 ± 13 kPa (2.76 ± 0.13 bar) (40 ± 2 psi)
14 x 17.5 (310D) -10 PR	Operating Pressure	380 ± 13 kPa (3.80 ± 0.13 bar) (55 ± 2 psi)
10.5/80 x 18 (315D)	Operating Pressure	370 ± 13 kPa (3.70 ± 0.13 bar) (54 ± 2 psi)
12.5/80 x 18 (315D)	Operating Pressure	310 ± 13 kPa (3.10 ± 0.13 bar) (45 ± 2 psi)

→NOTE:

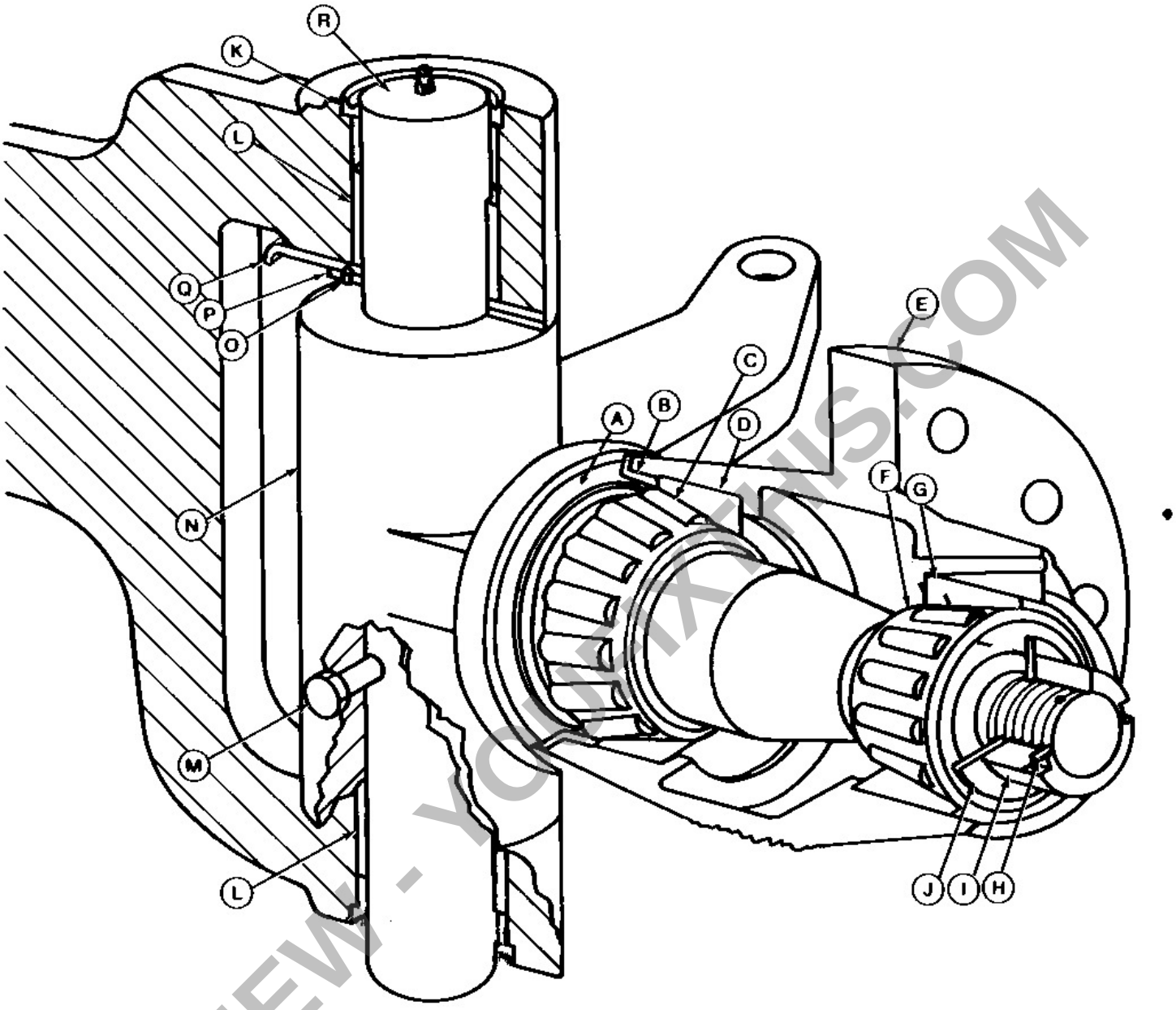
Add 4.54 kg (10 lb) to tire weight for every 1.59 kg (3.5 lb) calcium chloride per 3.785 L (1 gal) water added to tire.

Remove Rear Wheel Assembly

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Axle, Hub And Knuckle Assembly



Axle, Hub And Knuckle Assembly

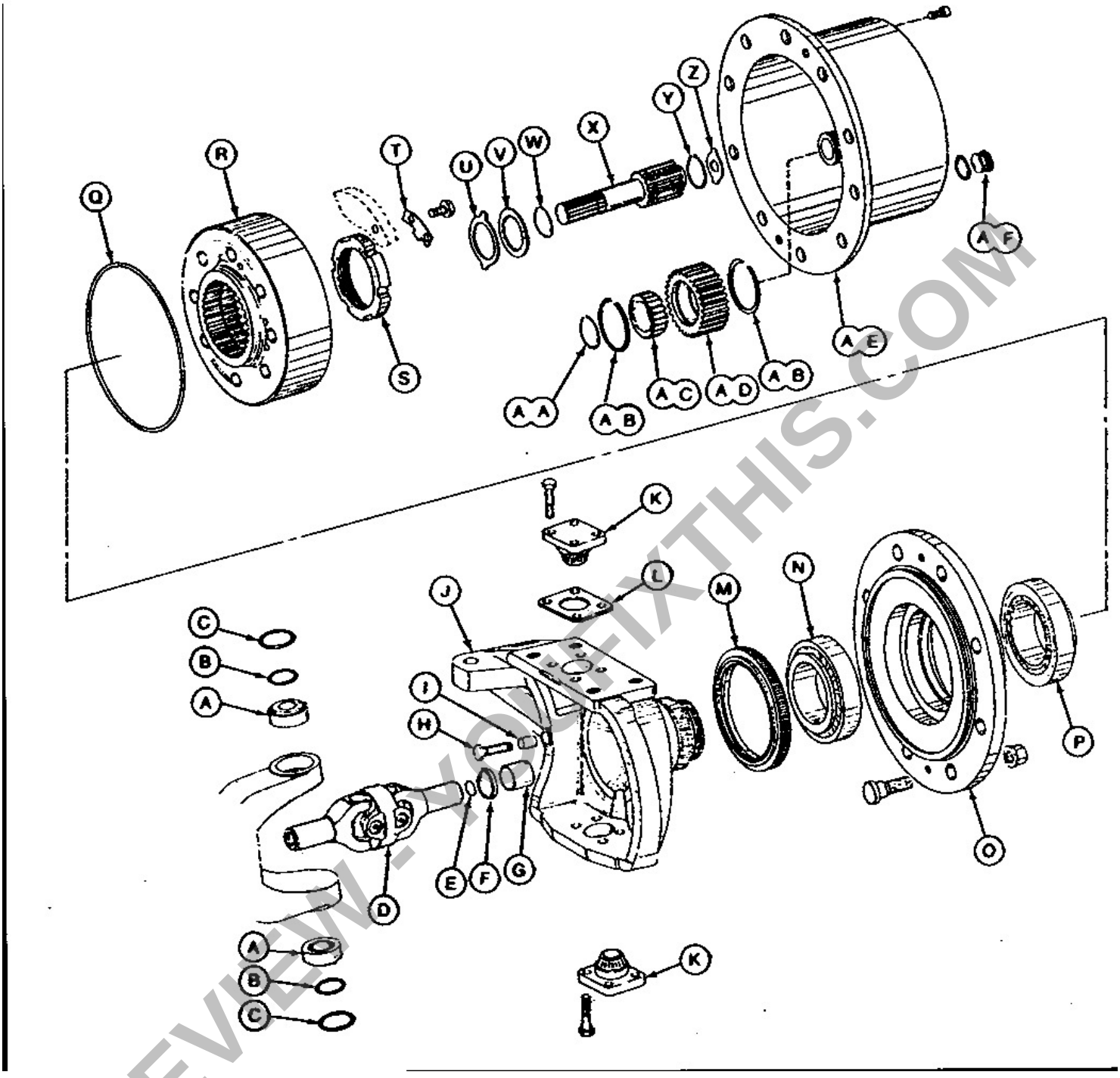
LEGEND:

A	Seal
B	Seal Cup
C	Bearing Cone
D	Bearing Cup
E	Hub
F	Bearing Cone
G	Bearing Cup
H	Cotter Pin
I	Nut
J	Washer
K	Seal
L	Bushing (2 used)
M	Cap Screw
N	Knuckle
O	Spring Pin
P	Thrust Washer
Q	Stop Thrust Washer
R	Kingpin

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Knuckle Housing And Wheel Hub With Planetary Drive Exploded View



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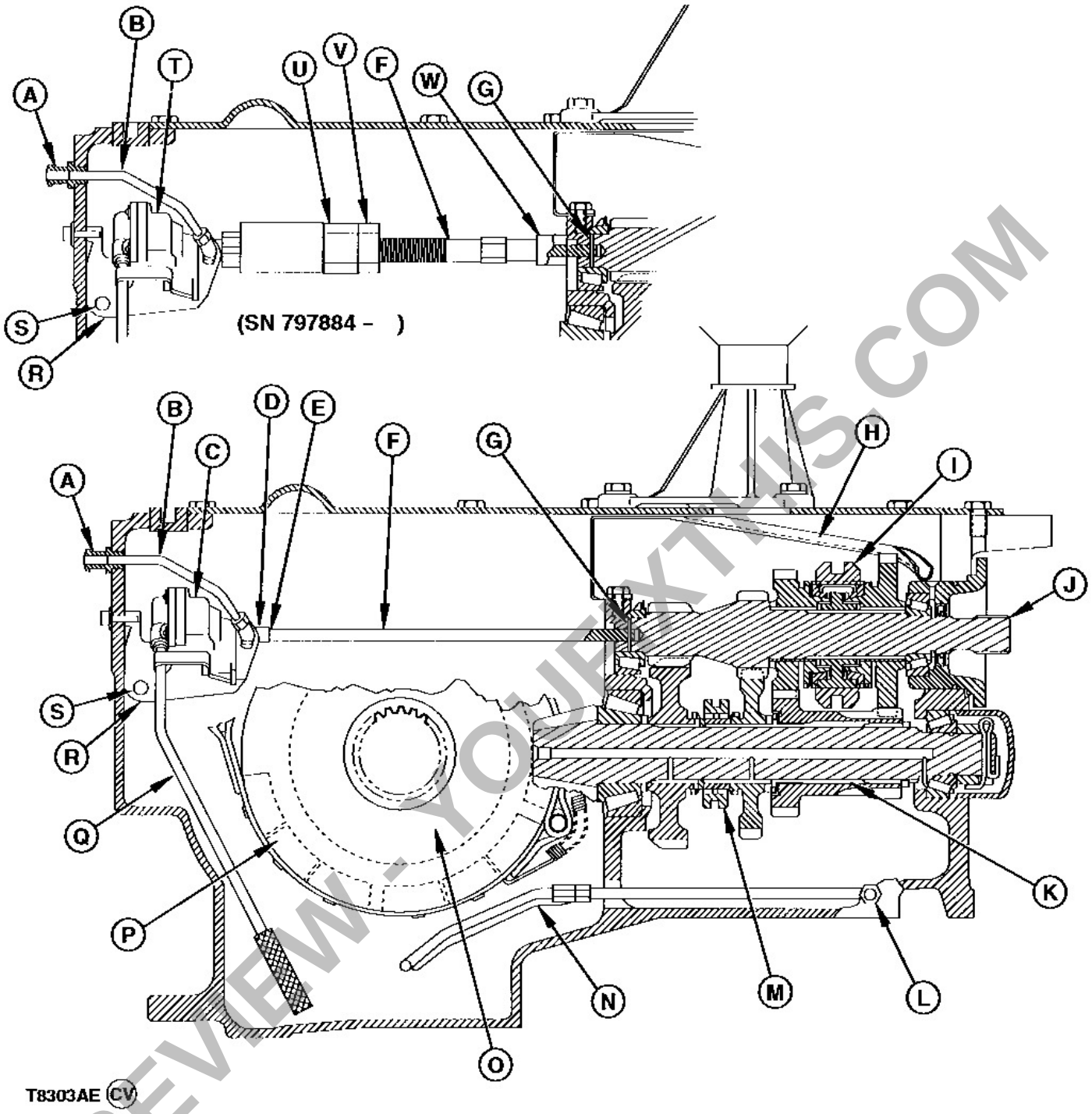
Serial No. -796033

LEGEND:

A	Tapered Roller Bearing
B	O-Ring
C	O-Ring
D	Universal Joint
E	Snap Ring
F	Seal Ring
G	Bushing
H	Steering Stop Screw
I	Steering Spacer
J	Knuckle Housing
K	Kingpin
L	Shim
M	Oil Seal
N	Tapered Roller Bearing
O	Carrier Hub
P	Tapered Roller Bearing

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Transaxle-300D



Transaxle Diagram

LEGEND:

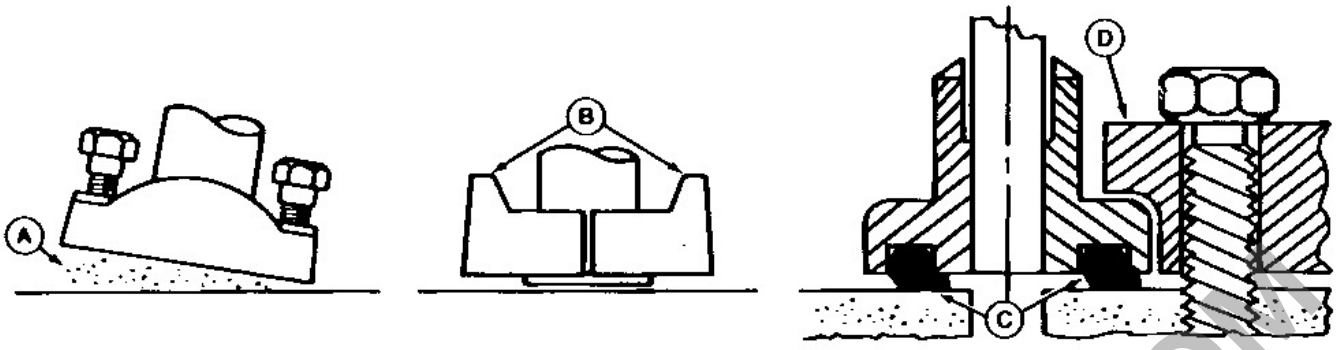
A	Pump Outlet to Cooler
B	Pump Outlet Line
C	Lube Pump
D	Drive Shaft Sleeve
E	Clamp
F	Pump Drive Shaft
G	Spring Pin
H	Lube Trough
I	Third and Fourth Gear Synchronizer
J	Transmission Drive Shaft
K	Differential Drive Shaft
L	Case Inlet from Cooler
M	Shift Collar
N	Inlet Line to Brake Cavity

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Service Recommendations for Metric Series Four Bolt Flange Fitting



LEGEND:

A	Sealing Surface
B	Split Flange
C	Pinched O-Ring
D	Single Piece Flange

[1] - Clean sealing surfaces (A). Inspect. Scratches cause leaks. Roughness causes seal wear. Out-of-flat causes seal extrusion. If defects cannot be polished out, replace component.

[2] - Install the correct O-ring (and backup washer if required) into groove using petroleum jelly to hold it in place.

[3] - Split flange: Loosely assemble split flange (B) halves. Make sure split is centrally located and perpendicular to the port. Hand tighten cap screws to hold parts in place. Do not pinch O-ring (C).

[4] - Single piece flange (D): Place hydraulic line in center of flange and install four cap screws. Flange must be centrally located on port. Hand tighten cap screws to hold flange in place. Do not pinch O-ring.

[5] - After components are properly positioned and cap screws are hand tightened, tighten one cap screw, then tighten the diagonally opposite cap screw. Tighten two remaining cap screws. Tighten all cap screws as specified in the chart below.

DO NOT use air wrenches. DO NOT tighten one cap screw fully before tightening the others. DO NOT over tighten.

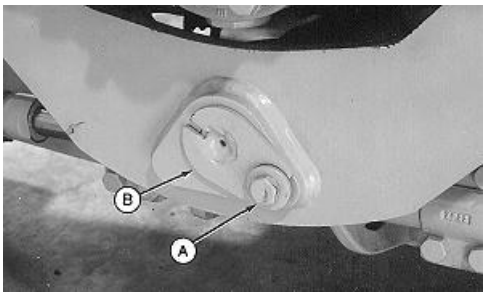
Torque Chart

[TORQUE CHART Tolerance ± 10%. The torques given are enough for the given size connection with the recommended working pressure. Increasing cap screw torque beyond these amounts will result in flange and cap screw bending and connection failures.]		
[Thread Metric standard thread.]	**N·m**	**lb-ft**
M6	12	9
M8	30	22
M10	57	42
M12	95	70
M14	157	116
M16	217	160
M18	334	246
M20	421	318

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Serial No. -802199



Serial No. 802200-

Install mounting hardware. Tighten to specifications.

Item	Measurement	Specification
Pivot Pin Cap Screw (SN -802199)	Torque	43-104 N·m (32-77 lb-ft)
Pivot Pin Cap Screw (SN 802200-)	Torque	215 N·m (159 lb-ft)

[5] -

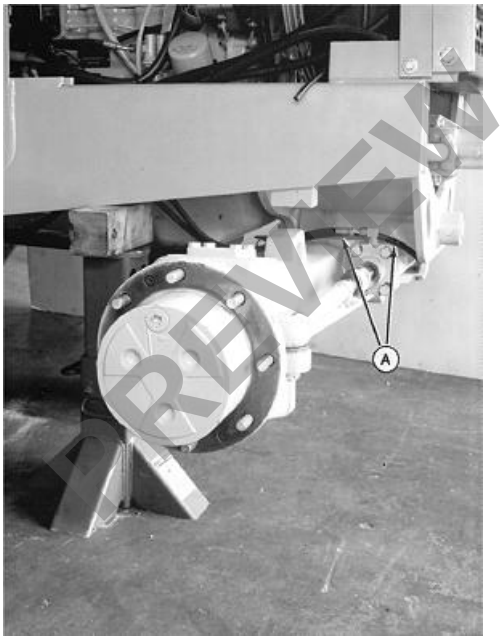


Tighten Cap Screws

Install drive shaft. Tighten cap screws to 41 N·m (30 lb-ft).

Item	Measurement	Specification
Drive Shaft U-Joint Strap-to-Axle Yoke Cap Screw	Torque	41 N·m (30 lb-ft)

[6] -



Connect Powered Wheel Axle Lines

Connect lines (A).

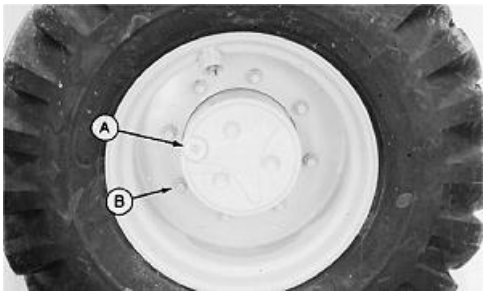
[7] - Install front wheels. (See Group 0110.)

[8] - Remove shop stands.

[9] - Install counterweights (if equipped).

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Wheel Hub With Planetary

Turn hub to locate drain hole (A) in 3 o'clock or 9 o'clock position. Fill planetary to drain hole with recommended oil. Oil capacity is approximately 1.0 L (1.1 qt) for each planetary hub. (See Section 00, Group 0004.)

Install and tighten plug to 150 N·m (110 lb-ft).

Item	Measurement	Specification
Axle Plugs	Torque	150 N·m (110 lb-ft)

[40] - Install wheels and nuts (B). (See procedure in Group 0110.)

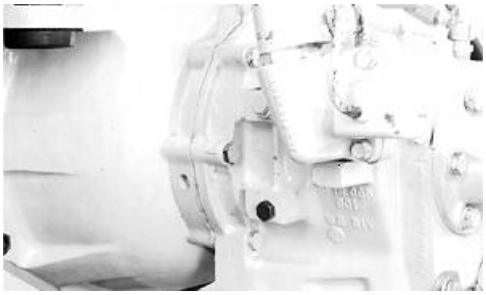
[41] - Remove shop stands and lower machine.

[42] - Check and adjust toe-in. (See procedure in this group.)

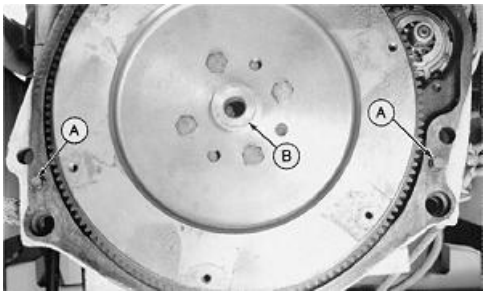
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Install Reverser With Torque Converter



Torque Converter Housing



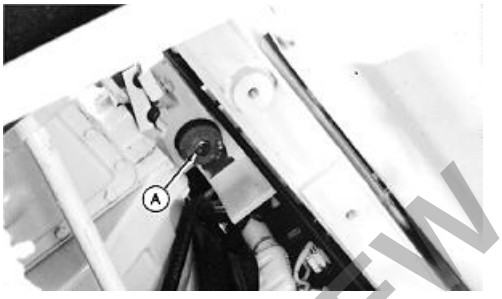
Flywheel Pilot Bushing And Housing Dowel Pins

[1] - Make sure rubber mounts are installed in torque converter housing. Put large washers on top of both mounts.

[2] - Carefully raise reverser until torque converter and housing align with engine flywheel housing dowel pins (A) and flywheel pilot bushing (B). Move reverser forward until reverser is tight against flywheel housing.

[3] - Install four torque converter housing-to-flywheel housing cap screws. DO NOT tighten at this time.

[4] -



Converter Housing-To-Main Frame Cap Screws

Install two large washers, two small washers and two torque converter housing-to-main frame cap screws (A). Tighten cap screws to 215 N·m (160 lb-ft).

Item	Measurement	Specification
Torque Converter Housing-to-Main Frame Cap Screws	Torque	215 N·m (160 lb-ft)

[5] - Tighten four cap screws installed in step 3 to 200 N·m (147 lb-ft).

Item	Measurement	Specification
Torque Converter Housing-to-Flywheel Housing Cap Screws	Torque	200 N·m (147 lb-ft).

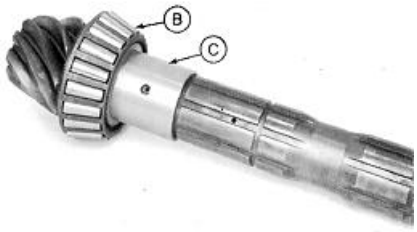
[6] -



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IMPORTANT:

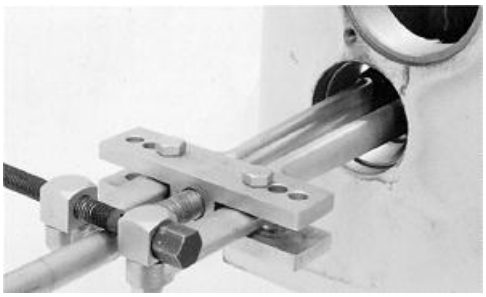


Bearing Cone & Bushing

DO NOT remove first speed gear bushing (C) unless replacement of bushing and/or bearing (B) is necessary. Always install new bushing if removed.

If bearing cone in Step 6 is replaced, also replace bearing cone (B) and bushing (C).

Each bearing cone and cup is a matched set. Always replace bearing cup when replacing bearing cone. If this is not done, premature bearing failure may result.



Remove Bearing Cup

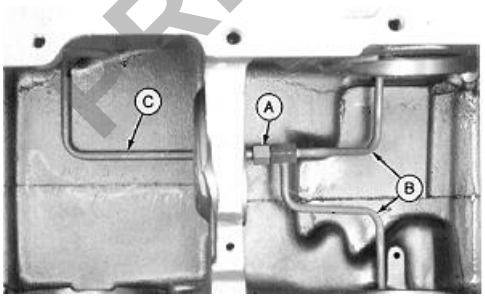


Remove Shim Pack

Remove bearing cup.

[9] - Remove shim pack. Keep shim pack with bearing cup.

Remove And Install Oil Lines



Oil Lines

[1] - Disconnect oil line from fitting (A).

[2] - Hold oil lines (B) together to remove from transmission case.

[3] - Remove oil line (C) with O-ring from transmission case.

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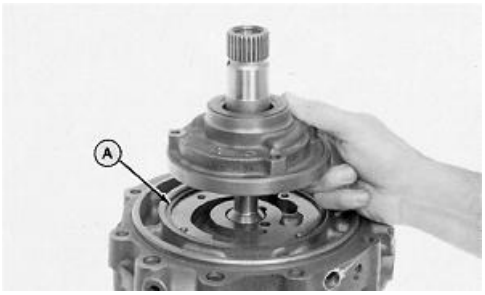
[4] - Install and tighten cap screws.

Remove Charge Pump

[1] -

IMPORTANT:

DO NOT hit cap screw bosses to free pump from housing. Pump bosses are used to help seal the pump.



Remove Pump And Packing

Remove cap screws to remove pump and packing (A).

[2] -



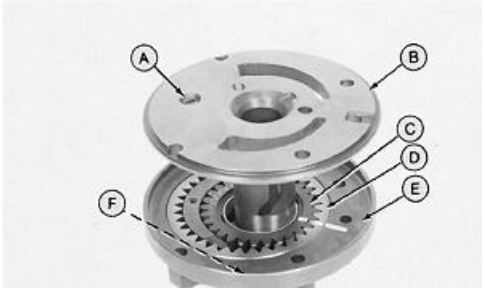
Measure Input Shaft End Play

Measure input shaft end play using a dial indicator.

[3] - End play must be 0.25-2.18 mm (0.018-0.086 in.). If end play is not correct, replace forward clutch assembly thrust washers.

Disassemble Charge Pump

[1] -



LEGEND:

A	Screw
B	Support
C	Drive Gear
D	Driven Gear
E	Pump Body
F	Oil Seal

Charge Pump Components

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Remove And Install Steering Valve

[1] -



Steering Wheel, Column Cover And Panel

Remove steering wheel (A), column cover (B) and instrument panel (C).

[2] - Disconnect wire leads to rocker switches.

[3] -

CAUTION:



Avoid High-Pressure Fluids

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 from Deere & Company Medical Department in Moline, Illinois, U.S.A.

Operate all hydraulic control valves to release pressure in the hydraulic system.

[4] -

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Small Relief Notch Cut To Allow Clearance

Cut a small relief notch from the outer edge of the holding plate to allow clearance for the park brake shaft on the right side of transaxle case. (Refer to photograph.)

[14] -



Remove Holding Plate And Tool Holder

Install the holding plate and six springs, washers and cap screws. Install cap screws into case until cap screws bottom into tapped hole; DO NOT apply any torque to cap screws.

[15] - Mark the outer brake disk with tape or paint so revolutions can be counted.

[16] - Start the engine and operate at slow idle. Put transaxle in first gear.

→NOTE:

If transaxle is removed or engine power not available, use a power drill and Transaxle Turning Tool to operate transaxle.

[17] - Install DFT1122 Transaxle Turning Tool on transaxle input yoke using U-joint straps and cap screws.

Transaxle Turning Tool

DFT1122

Install on transaxle input yoke to use U-joint straps and cap screws.

(See Group 1099 to make tool.)

[18] -

→NOTE:

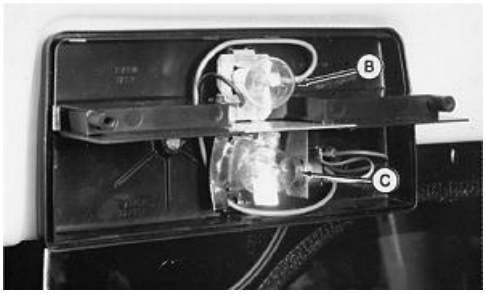
The differential lock may have to be applied to force the side with the polishing disc to rotate.

Allow the transaxle to rotate the polishing disc approximately 60 revolutions.

[19] - Remove brake disks and polishing disc from transaxle. Clean disc using compressed air to remove metal particles.

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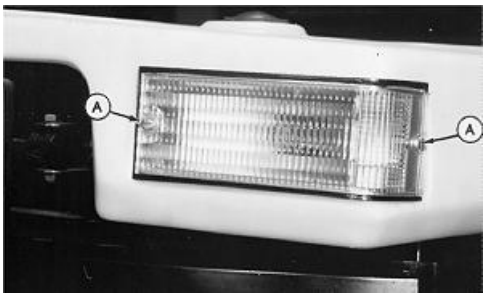
Bulbs

[1] - Remove screws (A) to remove lens cover.

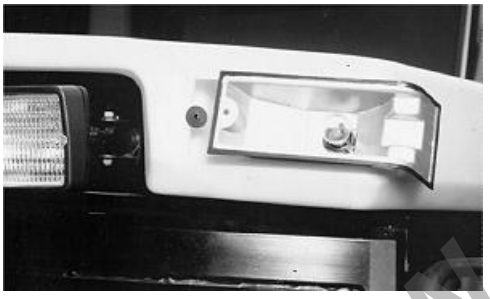
[2] - Remove bulbs (B and C) by pushing in and rotating bulbs counterclockwise (1/4 turn). Replace bulbs if necessary.

[3] - Install lens cover and fasten with screws (A).

Remove And Install Front Turn Light Bulb



Screws



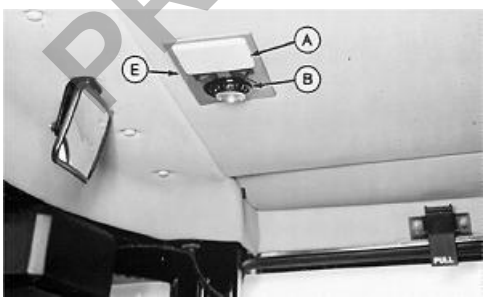
Front Turn Light Bulb

[1] - Remove screws (A) to remove lens cover.

[2] - Remove bulb by pushing in and rotating bulb counterclockwise (1/4 turn). Replace bulb if necessary.

[3] - Install lens cover and fasten with screws (A).

Remove And Install Dome Light And Swivel Light



LEGEND:

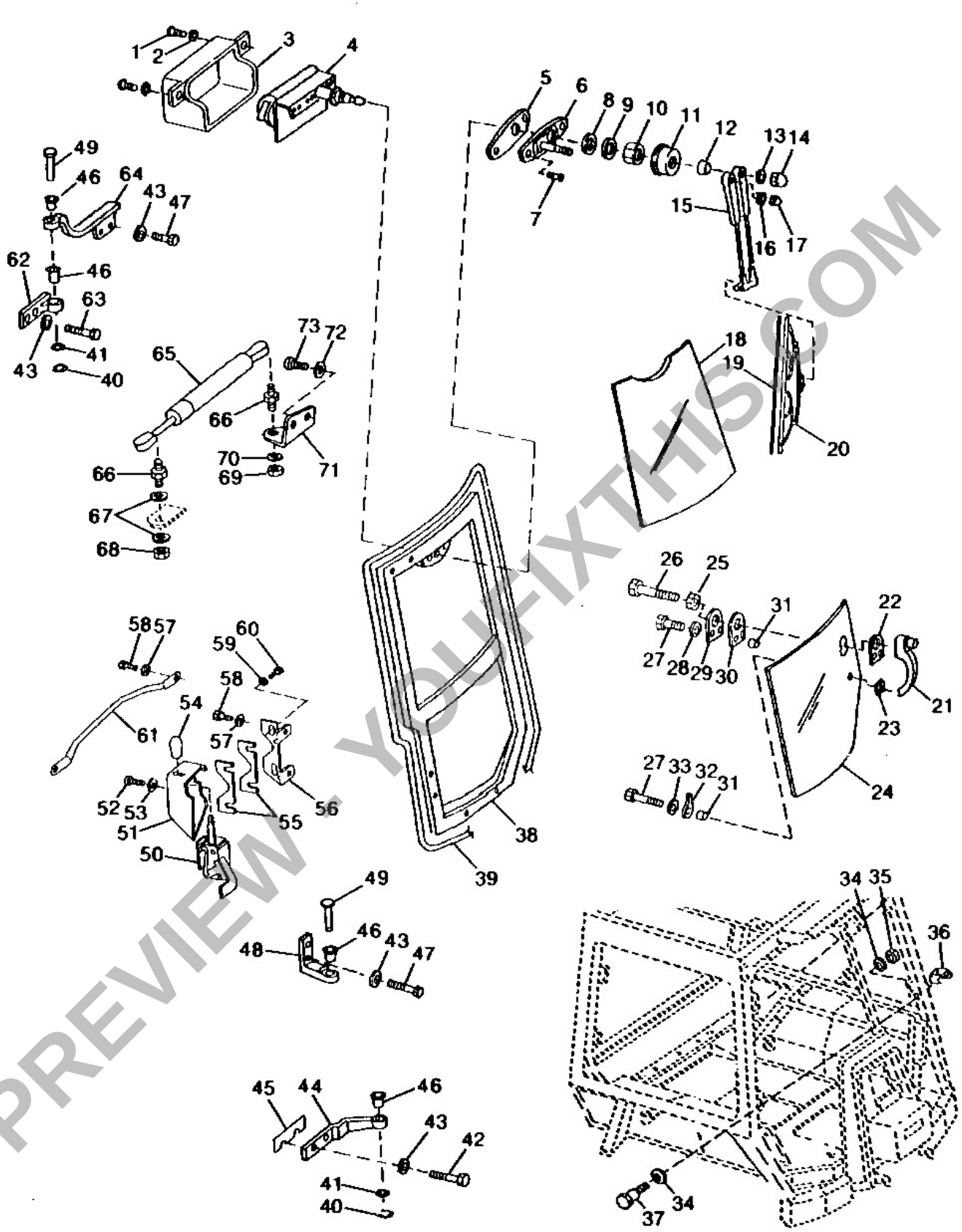
A	Dome Light Cover
B	Swivel Light Cover
C	Bulb
D	Bulb
E	Dome Light
F	Screw (2 used)

Dome And Swivel Light Cover

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Disassemble And Assemble Left Cab Door And Wiper Motor



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Legend For Right Cab Door/Wiper Motor

LEGEND:

1	Screw (2 used)
2	Washer (2 used)
3	Cover
4	Wiper Motor Assembly

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[3] -

→NOTE:

The valve plates, reed valves, cylinders, and cylinder housing are NOT serviceable. Some cylinder scuffing (light scratches) is normal.

Inspect the valves for an even wear pattern and the cylinders for scoring or excessive wear. Replace compressor as required.

[4] - Remove the shaft seal snap ring (M). Turn the housing over and remove the felt holder (Q) and felt (R) from the front housing (S).

[5] - Remove the shaft lip seal (N) from the front housing (S) using a small tool with 5/8 in. OD.

[6] - Wash all parts in clean solvent and dry before assembly.

[7] -

IMPORTANT:

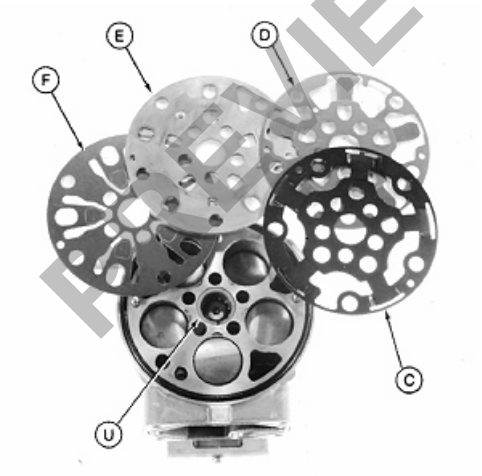
Lubricate O-rings, gaskets, and lip seal using only TY22025 (R134a) refrigerant oil during assembly.

Number	Name	Use
• TY22025 (8.5 oz) (us)	R134A Compressor Oil	Lubricate R134A air conditioning system.

Other oils could damage the compressor.



Lip Seal Bolts



Gaskets

Apply R134a oil to the bore of the front housing and install new lip seal (N) to the bottom of the bore using a socket. Install new snap ring (M) flat side down.

[8] -

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Disconnect lines (A-E) from priority valve.

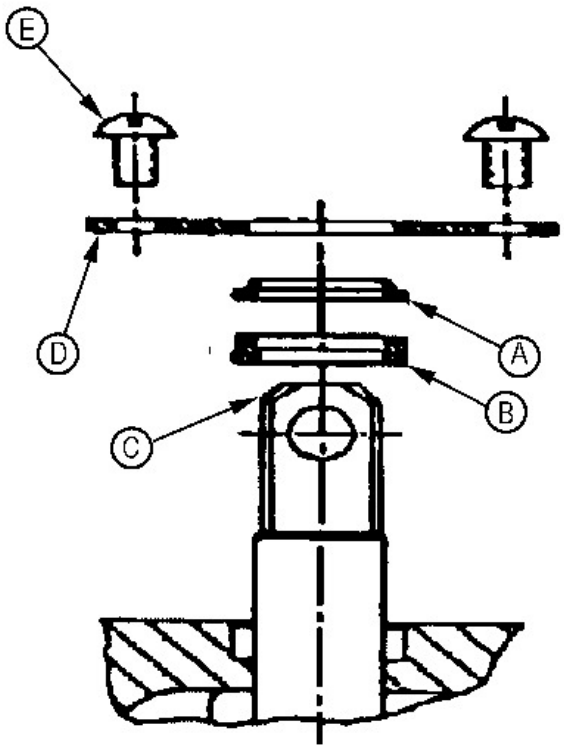
[8] - Tag lines. Close all openings using caps and plugs.

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Replace Wiper Rings And Seals Of Loader Control Valve Sections (SN 802200-)

[1] -



T7698AB

LEGEND:

A	Wiper Ring
B	Seal
C	Spool
D	Plate
E	Screw (2 used)

Valve Section Plate

Remove screws (E) to remove plate (D) from valve section.

[2] - Use an O-ring pick to remove wiper ring (A) and seal (B).

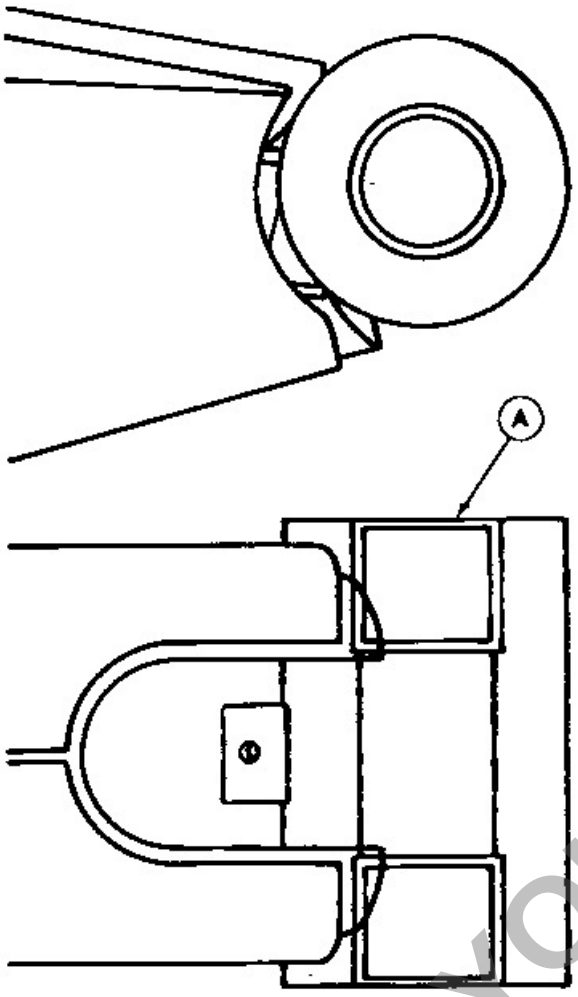
[3] -

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[5] - Remove boom.

[6] -



Bushings Location

Inspect bushings (A), remove if replacement is necessary using E7018 electrodes. Weld three straight beads the inside length of the bushings.

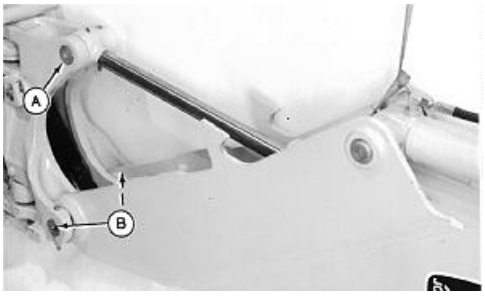
[7] - Allow sufficient time for bushings to cool before removing using a punch.

[8] - Make sure ID of bores for bushings are clean and free of any grease or oil. Apply retaining compound to inner surface of bore before installing bushings.

Number	Name	Use
• T43515 (us) • TY9479 (canadian) • 635 LOCTITE ™ (loctite)	Retaining Compound (Maximum Strength) Products	Apply to ID of bore before installation of bushings in boom and dipperstick.

Install new bushings using 55 mm and 70 mm drivers for dipperstick to boom joint bushings. Use 49 mm and 65 mm drivers for boom to swing frame joint bushings.

[9] -

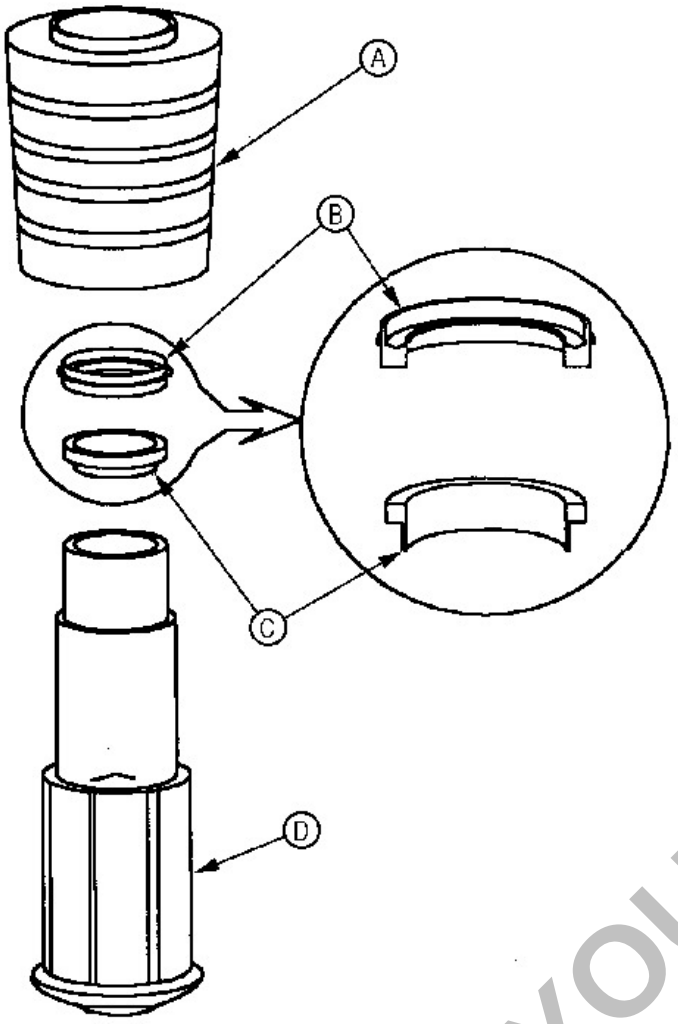


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LEGEND:

A	Tool Sleeve
B	Seal
C	Wiper Ring
D	Tool Driver



T7677AA

Seal Orientation To Wiper Ring

Install wiper ring (C) on end of tool driver (D) with smaller OD of ring into driver.

[8] - Put seal (B) on wiper ring with open side of seal away from wiper ring.

[9] -

→NOTE:

Lip end of sleeve ID is cone-shaped to compress seal and wiper ring for installation.

Carefully slide sleeve (A) over seal, wiper ring and driver with raised lip of sleeve away from driver. Do not push seal through sleeve.

[10] - Put tool assembly over end of spool with raised lip into counterbore of valve section.

[11] - Push driver to install seal and wiper ring into valve housing.

[1] -

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