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U10;010GEN CX3 061087

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LUBRICATION SPECIFICATIONS

Engine Crankcase	17.0 L (18 qt)
Transmission-Hydraulic System:	
Power Shift without MFWD	51.0 L (13.5 gal)
Power Shift with MFWD	60.0 L (15.9 gal)
QUAD-RANGE® without MFWD	60.5 L (16.0 gal)
QUAD-RANGE with MFWD	65.0 L (17.2 gal)
Service Intervals:	
Engine:	
Check Oil Level	10 Hours
Check Coolant	10 Hours
Check Fuel Filter (4050 Tractor Serial No. 006510-)	10 hours
Change Oil and Filter*	200 Hours
Clean Vent Tube	600 Hours
Replace Fuel Filter Element (4050 Tractor Serial No. 006510-)	600 Hours
Check Fuel Injection Nozzles	1200 Hours
Replace Air Filter Elements	Annually
Change Coolant	Biennially
Replace Thermostats	Biennially
Replace Fuel Filter (4250 and 4450)	As required
Inspect or Replace Crankshaft Damper	As required
Check Side Frame Bolts	First 100 Hours or Before Installation of Loader
Transmission-Hydraulic System:	
Check Oil Level	10 Hours
Check Oil Level of MFWD Axle Housing and Wheel Hub	200 Hours
Change Transmission and Hydraulic Filters*	600 Hours
Clean Filter Screens	1200 Hours
Change Oil	1200 Hours
Change Transmission and Hydraulic Filters	Annually or as required
Check Accumulators: Brake, Shift, Seat	As required
Lubrication of Grease Fittings:	
Rear Axle Bearings (wet conditions)	10 Hours
Rear Axle Bearings (normal conditions)	600 Hours
Front Wheel Bearings (wet conditions)	10 Hours
Front Wheel Bearings (normal conditions)	1200 Hours
Front Axle Pivots, Steering Spindles, and Tie Rods (wet conditions)	10 Hours
Front Axle Pivots, Steering Spindles, and Tie Rods (normal conditions)	200 Hours
MFWD U-Joints and Steering Knuckles (wet conditions)	10 Hours
MFWD King-Pins, Steering Knuckles and U-Joints (normal conditions)	200 Hours
Wide Swing Drawbar	10 Hours
Load Control Shaft Outer Bearings	200 Hours
3-Point Hitch	200 Hours
MFWD Hub and Axle Housings	1200 Hours
Secondary Brake Linkage Pivot	200 Hours

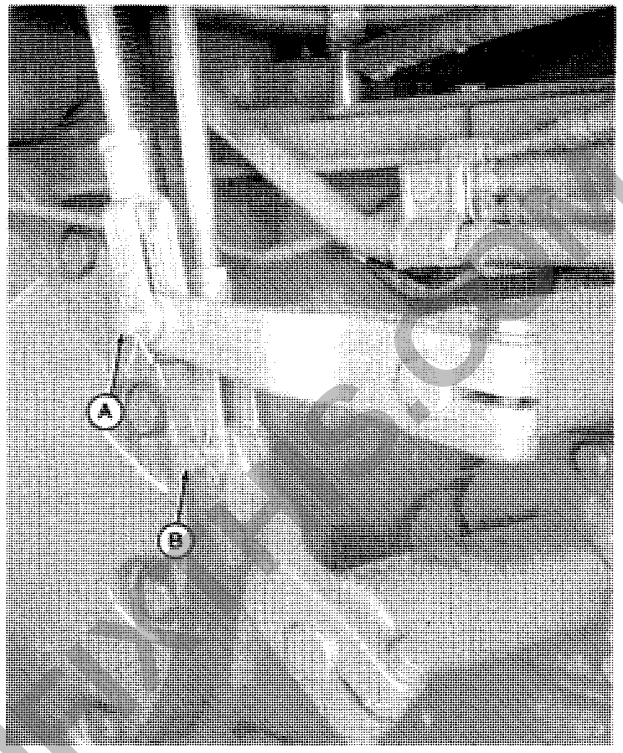
*Change at 100 Hours during "break-in" period.

U10;010GEN IX5 071087

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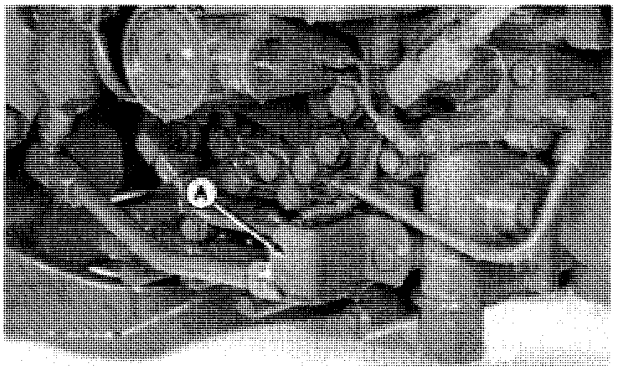
2. Disconnect speed control linkage (A).
3. Disconnect range control linkage and spring (B).



AC8;RW7752 U15;015025 LX3 020782

ON POWER SHIFT TRACTORS ONLY:

1. Remove neutral start switch shield (A).



AC8;RW8941 U15;015025 MX3 070383

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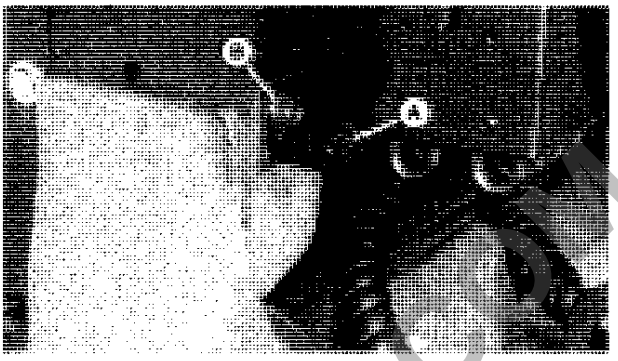
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REMOVE RADIATOR

1. Remove hood and drain cooling system.

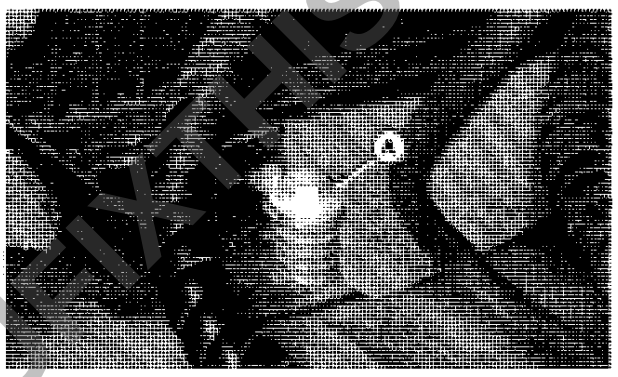
2. Remove four oil cooler attaching cap screws (A, one upper and lower each side).

3. Loosen four support bracket cap screws (B, one upper and lower each side).



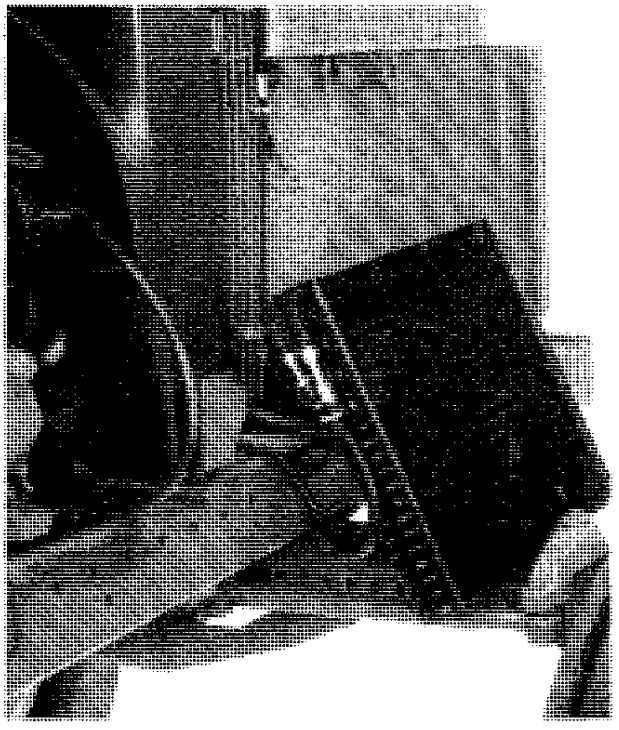
AD7;RW5551 U20;020045 IX4 121083

4. Remove two spring-loaded radiator attaching cap screws (A, one each side).



AD7;RW5552 U20;020045 JX4 240985

5. Slide oil cooler out to right side and set on axle and against fuel tank as shown.



AD7;RW5553 U20;020045 KX4 170682

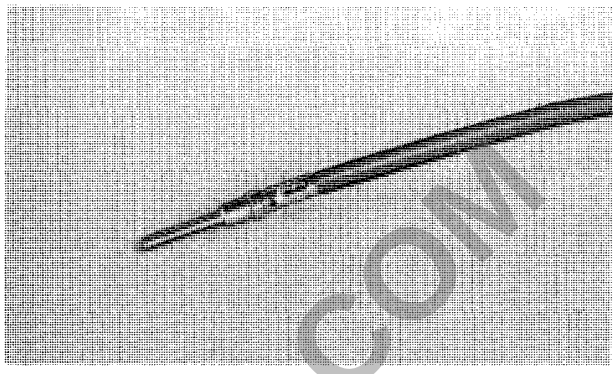
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IMPORTANT: If all wire strands are not crimped into contact, cut off wire at contact and repeat contact installation procedure.

NOTE: Readjust crimping tool for each crimping procedure.

8. Inspect contact to be certain all wires are in crimped barrel.



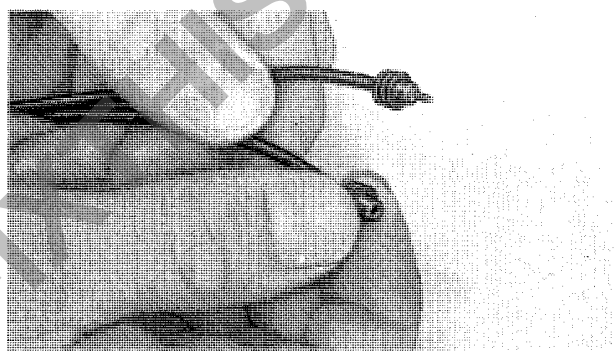
AB6;TS0135 053;ECONN Z 161282

INSTALL WEATHER PACK CONTACT

NOTE: Cable seals are color coded for three sizes of wire:
- *a) Green - 18 to 20 gauge wire*
- *b) Gray - 14 to 16 gauge wire*
- *c) Blue - 10 to 12 gauge wire*

1. Slip correct size cable seal on wire.

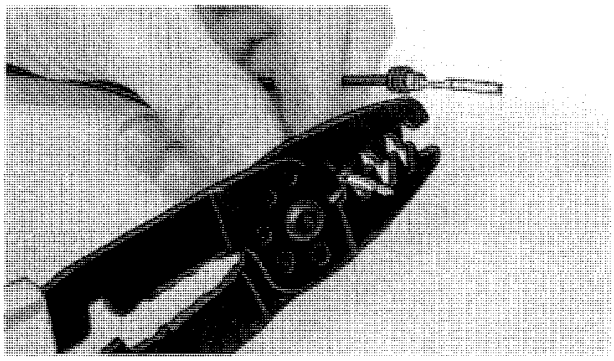
2. Strip insulation from wire to expose 6 mm (¼ in.) and align cable seal with edge of insulation.



AB6;TS0136 053;ECONN AA 161282

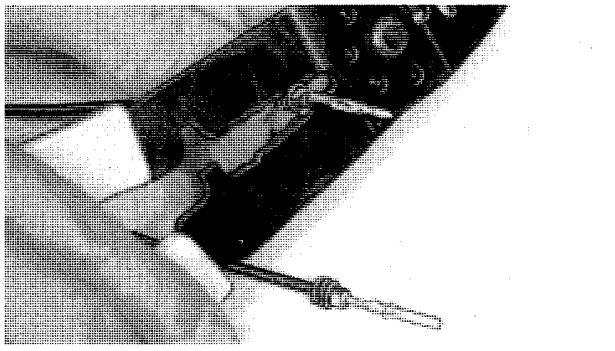
NOTE: Contacts have numbered indentification for two sizes of wire:
- *a) #15 for 14 to 16 gauge wire*
- *b) #19 for 18 to 20 gauge wire*

3. Place proper size contact on wire and use JDG-144 Terminal Applicator to crimp contact in place with a "W" type crimp.



AB6;TS0137 053;ECONN AB 161282

4. Use JDG-144 Terminal Applicator to secure cable seal to contact as shown.

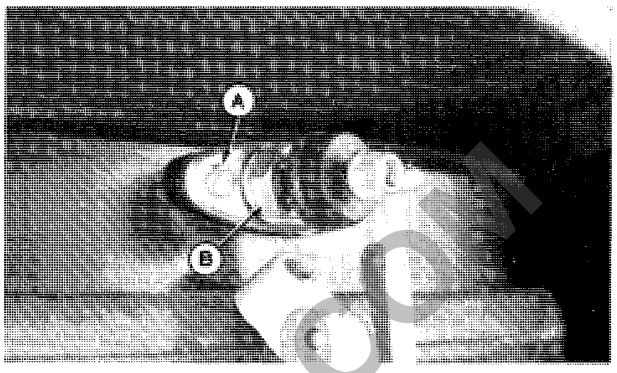


AB6;TS0138 053;ECONN AC 161282

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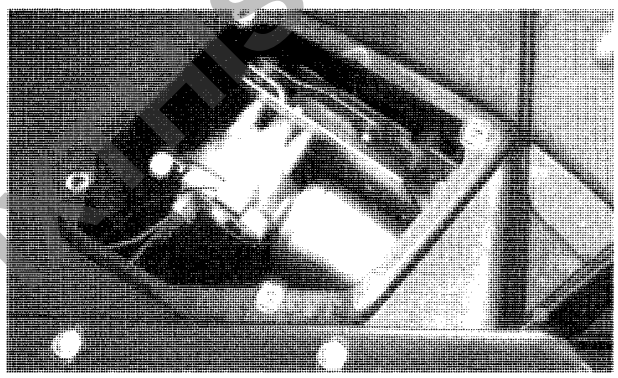
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2. Remove two cap screws (A) and one nut (B) to detach wiper motor from frame.



AE7;RW3372 U40;040035 FX1 170881

3. Open roof and remove motor access cover.

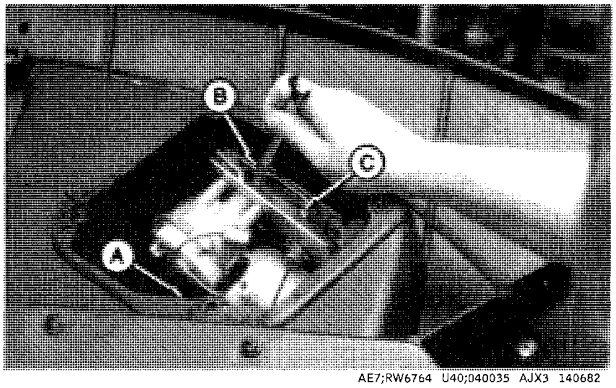


AE7;RW6763 U40;040035 AIX3 140682

4. Disconnect connector (A).

5. Remove nut (B) to detach arm (C).

6. Remove mounting hardware and lift out motor assembly.

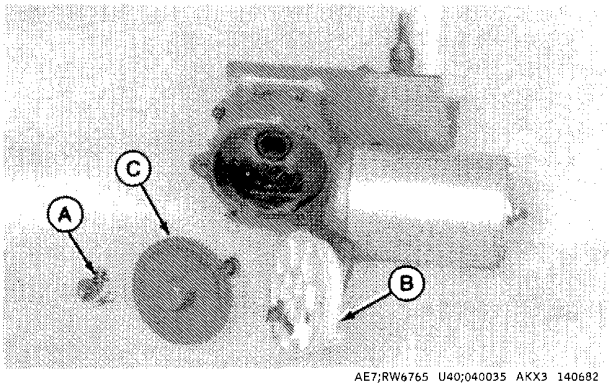


AE7;RW6764 U40;040035 AJX3 140682

NOTE: The drive gear is the only replaceable part in the right hand wiper motor.

7. Remove thru screws (A) on motor cover (B) to replace drive gear (C).

8. Reverse removal steps to assemble and install motor. Use a light gear lubricant on gear shaft.



AE7;RW6765 U40;040035 AKX3 140682

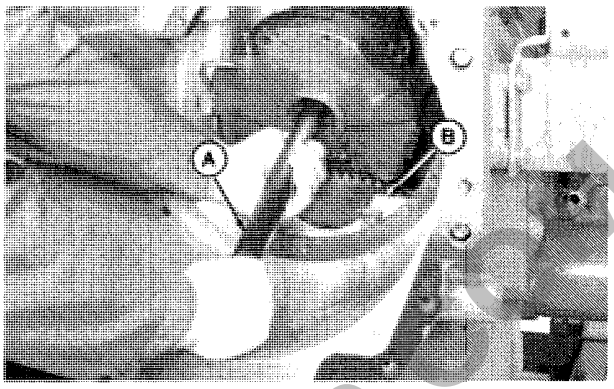
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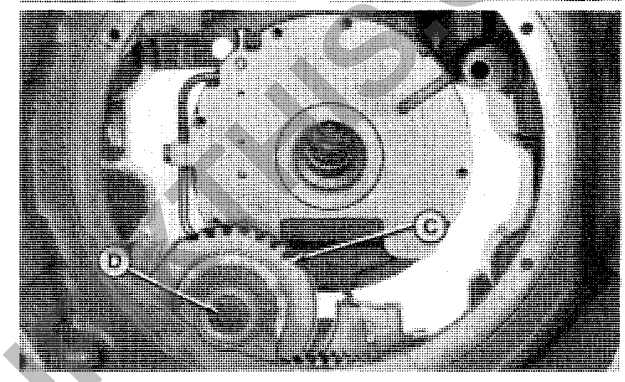
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INSTALL QUAD-RANGE PLANETARY

1. Use a clutch shaft (A) as a handle and tip planetary slightly and install over PTO gear (B) or PTO idler gear assembly (C).

2. On tractors with MFWD, tip idler gear assembly into place and install the PTO idler gear shaft making sure that both the front and rear spacer washers are in place. (See specific instructions under PTO Gear Train, Install PTO Idler Gears, in this section.) Tighten PTO idler gear assembly cap screw to 85 N·m 65 lb-ft).





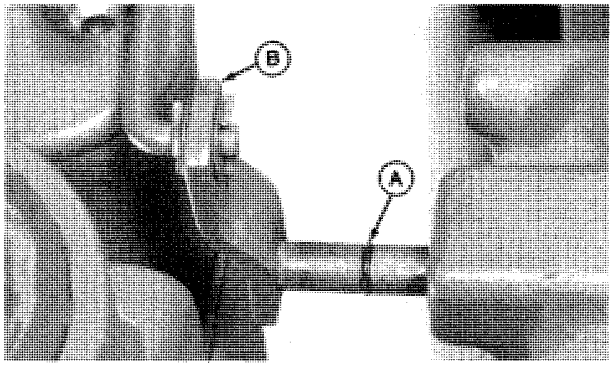
A—Clutch Shaft
B—PTO Drive Gear
C—PTO Idler Gear Assembly
D—Idler Gear Shaft Cap Screw

AU3;R37099,R38948 R50;50200 602 240984

3. Inspect O-ring packing (A) and replace as necessary.

IMPORTANT: Arm (B) on outer portion of rod must point upward.

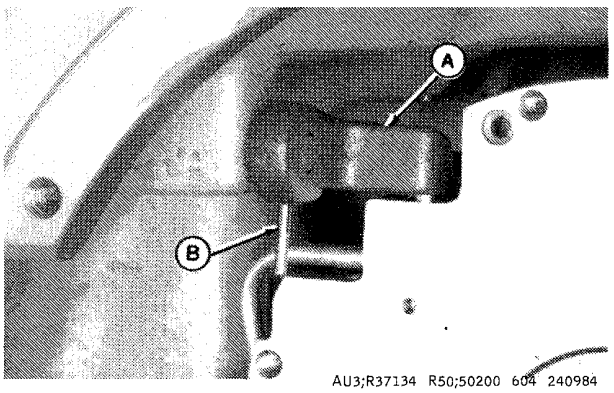
4. Install control valve operating arm shaft part way into clutch housing with arm on outer end of shaft pointing upward.



AU3;R37133 R50;50200 603 240984

5. Install arm (A) in position on control valve and install operating arm shaft into arm.

6. Make sure outer arm is pointed upward. Align spring pin hole in arm with hole in shaft and install spring pin (B).

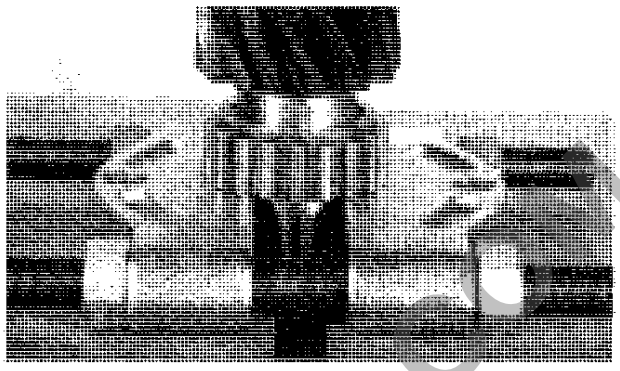


AU3;R37134 R50;50200 604 240984

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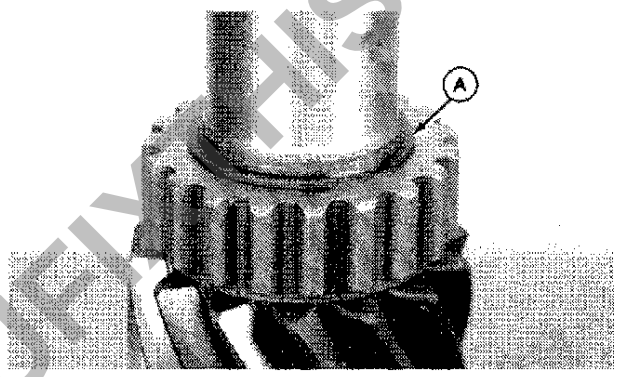
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9. Align keyway slots with two woodruff keys and press drive collar onto shaft as shown using D-01243AA Knife-Edge Bearing Puller.



AU6;R37183 R50;50200 308 180582

10. Install reverse drive collar snap ring (A).

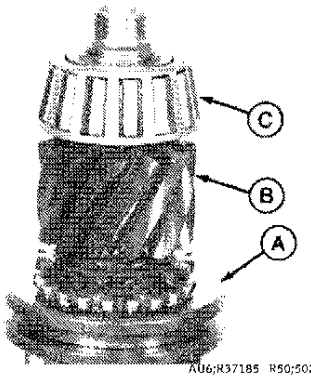


AU6;R37184 R50;50200 309 180582

11. Install reverse shift collar (A) in place.

12. Install reverse pinion (B).

13. Install smaller diameter bearing cone (C) using a press. Use a large socket and make sure cone is tight against shoulder of shaft.

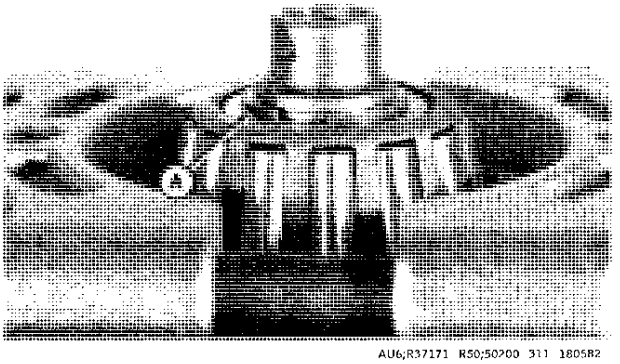


AU6;R37185 R50;50200 310 180582

IMPORTANT: Install thickest snap ring that will fit in groove in shaft.

14. Make sure cone is tight against shoulder and install snap ring (A).

NOTE: Snap rings are available in thicknesses of 1.93, 2.01, 2.08, and 2.16 mm (0.076, 0.079, 0.082, and 0.085 in.).



AU6;R37171 R50;50200 311 180582

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SPECIAL TOOLS

NOTE: Order tools from your SERVICE-GARD catalog, unless otherwise indicated.

Number	Name	Use
D-01045AA	*Bushing, Bearing, and Seal Driver Set*	*Install bushings, bearings, bearing cups, and oil seals*
D-01049AA	*13 Ton Puller Set*	*Remove and install bearings and bearing cups*
D-01173AA	*17-½ Ton Puller Set*	*Remove and install bearings and bearing cups*
D-01210AA	*Slide Hammer Handle*	*Remove PTO roller bearing assembly*

R50;50200 373 040882

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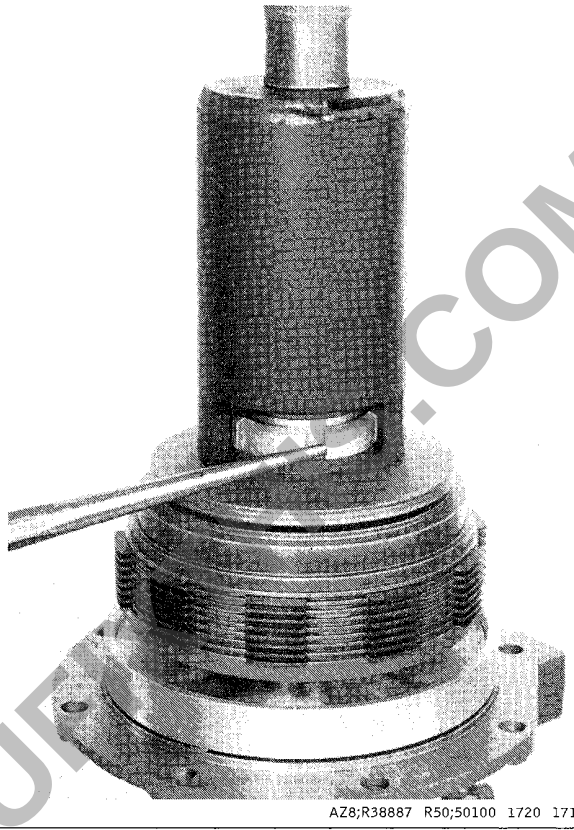
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4. Put clutch in a press with compression tool. (See Making Special Tools.)

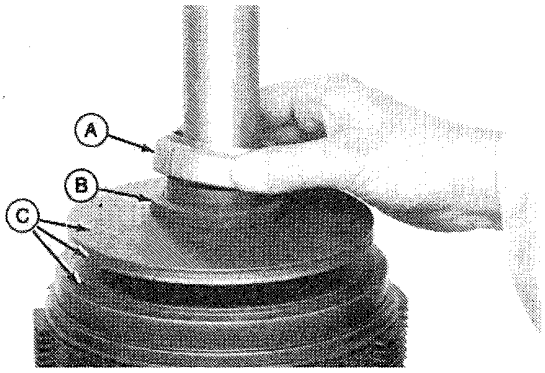
5. Compress belleville springs and remove nut.



AZ8;R38887 R50;50100 1720 171084

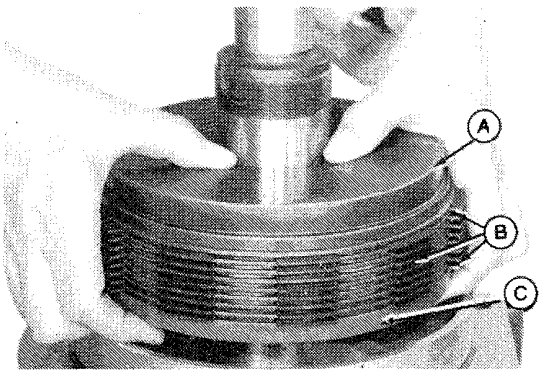
6. Remove nut (A) and special washer (B).

7. Remove the three belleville springs (C).



AZ8;R38888 R50;50100 1721 210984

8. Remove front pressure plate (A), disks, plates (B) and rear pressure plate (C).

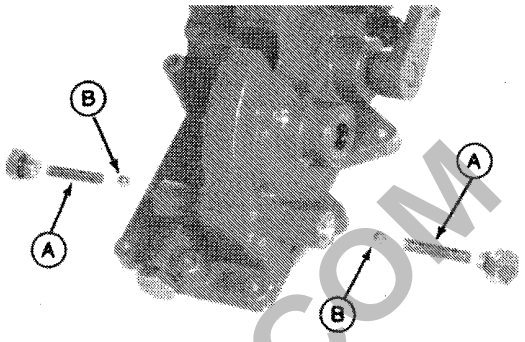


AZ8;R38889 R50;50100 1722 171084

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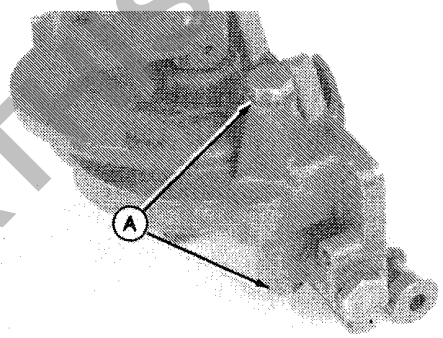
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4. Install detent balls (B) and springs (A).



AZ6;R36788 R50;50100 413 120482

5. Install detent plugs (A).

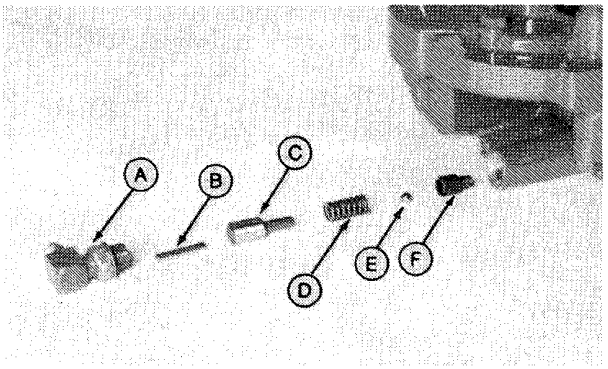


AZ6;R36787 R50;50100 414 120482

6. Assemble engagement override valve sump valve* into cover. Install pin (B) into elbow (A) before installing elbow.

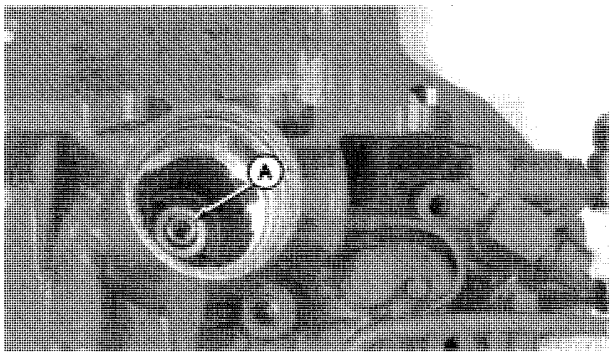
A—Elbow
B—Pin
C—Guide
D—Spring
E—Ball
F—Seat

*Transmission Serial Numbers:
4050 Tractors (2550-)
4250 Tractors (4780-)
4450 Tractors (11286-)



AZ6;R39732 R50;50100 2556 090987

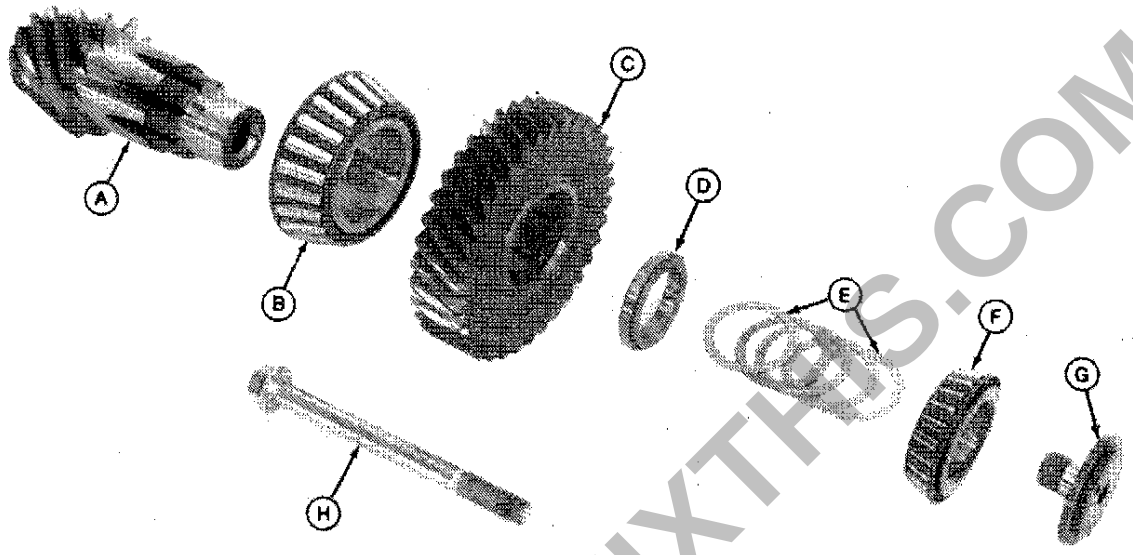
7. Install spring (beneath bushing) and bushing (A) into rotary valve bore.



AZ6;R36785 R50;50100 415 140685

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INSPECT DIFFERENTIAL DRIVE SHAFT COMPONENTS



A—Bevel Pinion Shaft
B—Rear Bearing Cone
C—Drive Gear
D—Drive Gear Front Spacer
E—Shims
F—Front Bearing Cone
G—Bearing Retainer
H—Retaining Cap Screw

1. Inspect shaft (A) and components for wear or damage.

Item	Dimension
Shaft O.D. at Rear Bearing Mating Area	71.47 to 71.50 mm (2.814 to 2.815 in.)
Shaft O.D. at Front Bearing Cone Mating Area	50.80 to 50.83 mm (2.000 to 2.001 in.)
Rear Bearing Cone I.D.	17.42 to 17.45 mm (2.812 to 2.813 in.)
Front Spacer Width	12.63 to 12.89 mm (0.497 to 0.501 in.)
Front Bearing Cone I.D.	50.78 to 50.81 mm (1.999 to 2.000 in.)

2. Inspect differential drive gear (C) for wear and damage.

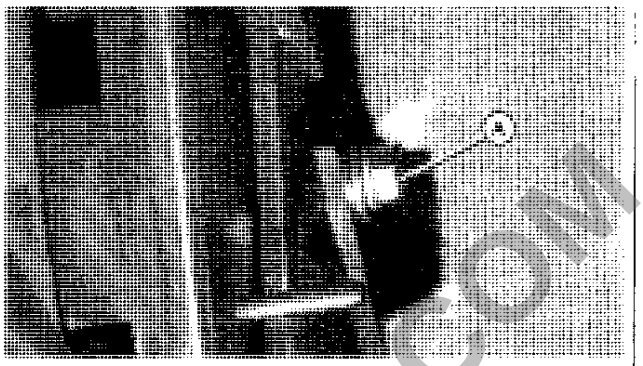
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AZ7;R37449 R50;50100 857 220782

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18. Remove cab frame-to-outside plate mounting cap screw (A, between cab and shifter assembly) and remove upper control assembly with rods and boot.

NOTE: Cap screw can be accessed by removing plastic plug from outside of tractor cab.

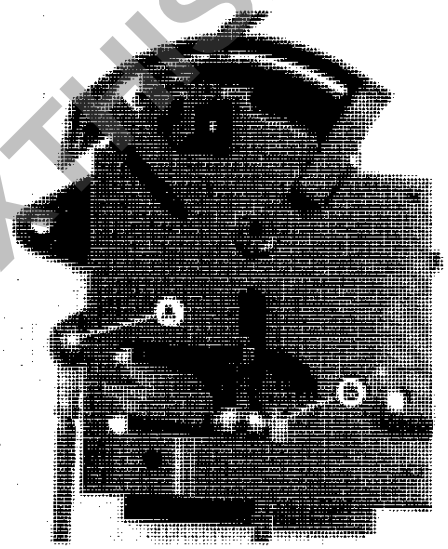


AK5;RW6254 U50;055050 HX4 140782

DISASSEMBLE AND REPAIR UPPER CONTROL ASSEMBLY

1. Disconnect and remove speed selector rod (A) and direction selector rod (B).

IMPORTANT: Disconnect from arms only. DO NOT disturb position of ball joint to rod assemblies.



AK5;RW6255 U50;055050 1X4 050482

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SPECIFICATIONS

Item	Measurement	Part Dimension
PTO Clutch Drum	I.D. (installed bushing)	54.11 to 54.14 mm (2.131 to 2.132 in.)
	I.D. (bushing mating area)	57.13 to 57.18 mm (2.249 to 2.251 in.)
	O.D. (piston mating area)	100.50 to 100.70 mm (3.957 to 3.965 in.)
	I.D. (piston mating area)	187.95 to 188.05 mm (7.400 to 7.404 in.)
	I.D. (front bearing cup mating area)	73.36 to 73.41 mm (2.888 to 2.890 in.)
Clutch Piston	I.D.	100.95 to 101.05 mm (3.974 to 3.978 in.)
	O.D.	187.37 to 187.63 mm (7.377 to 7.387 in.)
Clutch Disk	Thickness (new)	3.22 to 3.38 mm (0.127 to 0.133 in.)
	Thickness (minimum facing)	0.5 mm (0.020 in.)
Separator Plate	Thickness (new)	2.97 to 3.12 mm (0.117 to 0.123 in.)
Clutch Backing Plate	O.D. (bearing cone area)	55.01 to 55.03 mm (2.166 to 2.167 in.)
PTO Gear Mounting Shaft Sealing Rings	Thickness (new)	2.35 to 2.38 mm (0.092 to 0.094 in.)
PTO Gear Mounting Shaft	O.D. (bearing cone area)	41.25 to 41.28 mm (1.624 to 1.625 in.)
	O.D. (clutch housing bore mating area)	50.79 to 50.81 mm (1.999 to 2.001 in.)
	O.D. (sealing ring area)	37.58 to 37.60 mm (1.479 to 1.480 in.)
PTO Drive Gear Front Bearing Cone	I.D.	41.28 mm (1.625 in.)
PTO Drive Gear	End Play	0.03 to 0.15 mm (0.001 to 0.006 in.)
Input Planetary Housing	O.D. (PTO gear rear bearing cone area)	107.99 to 108.01 mm (4.252 to 4.253 in.)
PTO Drive Gear	O.D. (front bearing cone area)	75.03 to 75.15 mm (2.954 to 2.959 in.)
PTO Drive Gear Support	I.D. (bearing cone cup mating area)	114.93 to 114.96 mm (4.525 to 4.526 in.)
PTO Drive Gear	End Play	0.03 to 0.10 mm (0.001 to 0.004 in.)
Clutch Housing	I.D. (PTO drive gear rear bearing bore)	89.94 to 89.98 mm (3.541 to 3.543 in.)
	I.D. (brake piston I.D. mating area)	99.95 to 100.05 mm (3.935 to 3.939 in.)
	I.D. (brake piston O.D. mating area)	141.45 to 141.55 mm (5.569 to 5.573 in.)

Continued on next page

R50;50100 948 120782

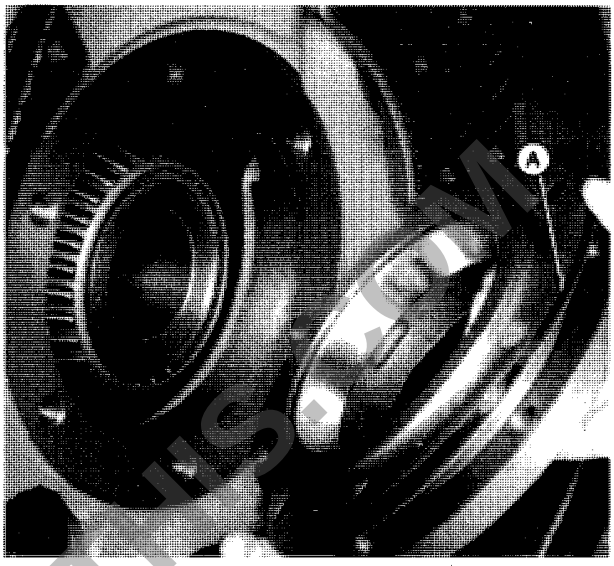
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12. Remove both right and left quills, keeping shims (A) with their respective quills.

NOTE: Lift the load control arm and support by hand from the case while removing the differential assembly.

13. Remove differential assembly and load control arm and load control arm support from case using a chain hoist and differential lifting tool. Use care to prevent damage to bearings during removal.



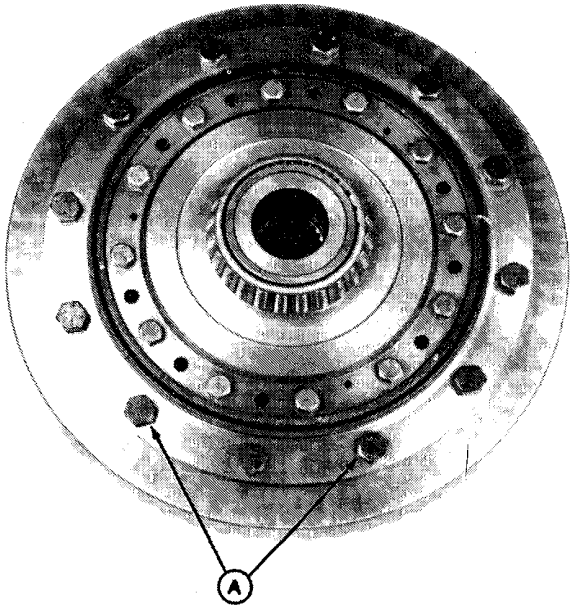
AU8;R37268 R50;50300 168 250682

INSPECT AND REMOVE RING GEAR FROM HOUSING

IMPORTANT: If differential ring gear is replaced, pinion shaft must also be replaced. Ring gear and pinion shaft are supplied as a matched set. Be sure number stamped on ring gear and pinion end of shaft are the same before assembly. Adjust cone point when replacing ring gear and pinion shaft.

1. Inspect gear teeth for wear and damage.

2. If necessary to replace ring gear, remove 12 cap screws (A) and remove ring gear from housing.



AU8;R35402 R50;050055 NX1 040882

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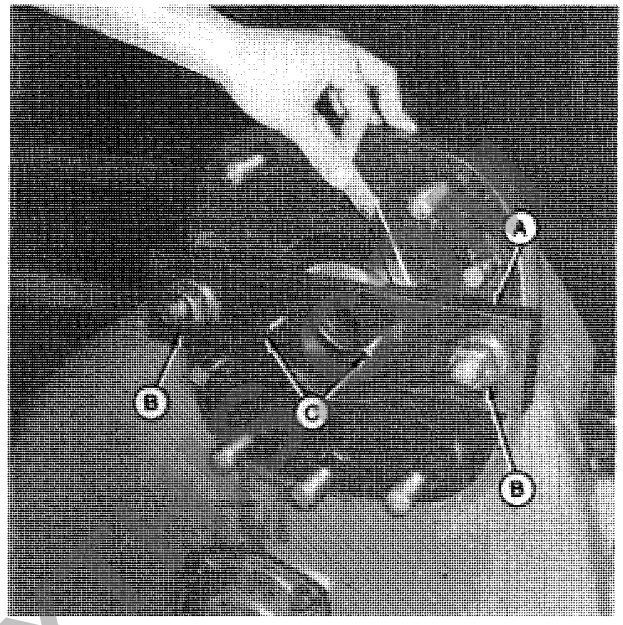
12. Install adjustment tool (A). (See making special tools.)

13. Install hex. nuts (B) and torque to 335 N·m (250 ft-lbs).

14. While turning outer drive shaft pinion (using drive shaft) alternately tighten ⅜ in. cap screws (C) to 2.8 N·m (25 in-lbs).

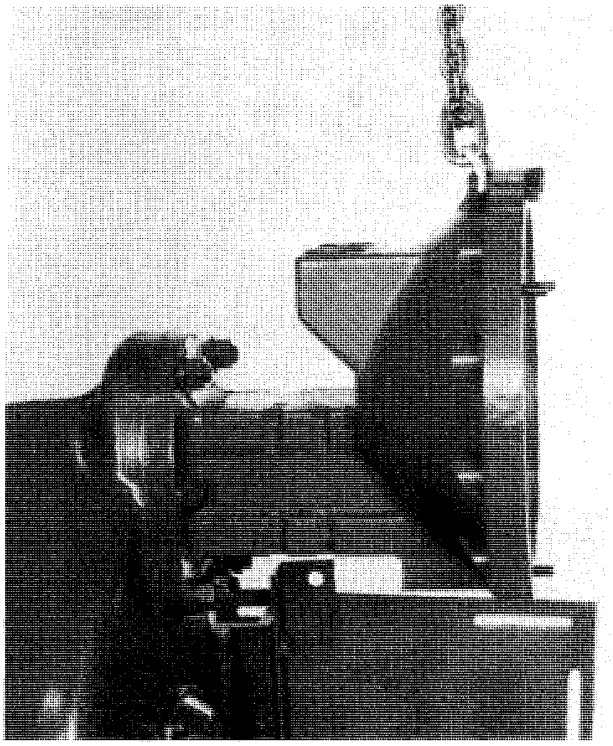
15. Measure the distance between tool and machined surface of quill using a feeler gauge.

16. Remove tool, and add shims to equal measurement taken.



AZ5;R37760 R50;50300 250 210782

17. Attach drive shaft housing to drive gear housing, and torque nuts to 603 N·m (445 ft-lbs).



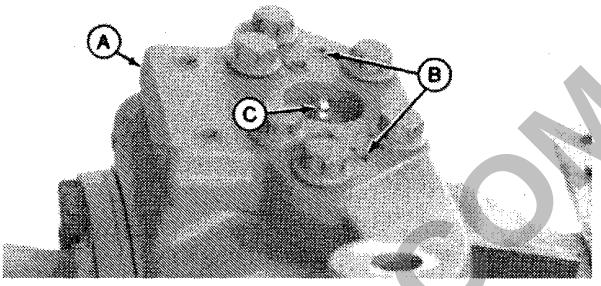
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5. Install upper steering arm (A) driving in spring pins (B). Torque cap screws to 230 N·m (170 lb-ft). Install king pin grease fitting (C).

6. Check rolling resistance of steering knuckle. (See Adjust Steering Knuckle Rolling Drag Torque, this group.)

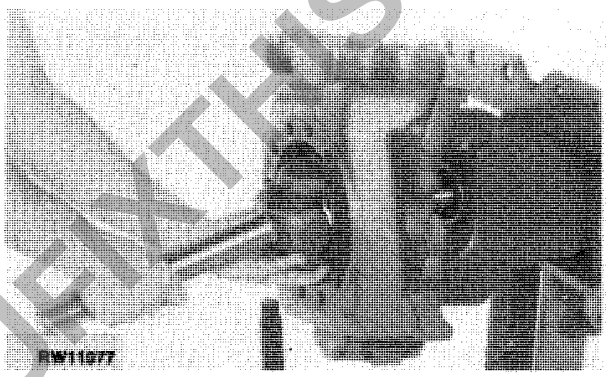


AK7;RW5633 U50;055105 PX2 200985

INSTALL AXLE AND WHEEL SPINDLE

1. Coat long axle shaft splines with Non-Clay, High-Temperature, Extreme Pressure (EP) Grease. Lightly coat axle at seal and bushing contact surfaces with the special grease provided with axle and spindle seals.

NOTE: It may be necessary to lift or rotate shaft to allow splined end to be inserted into differential bevel side gear.



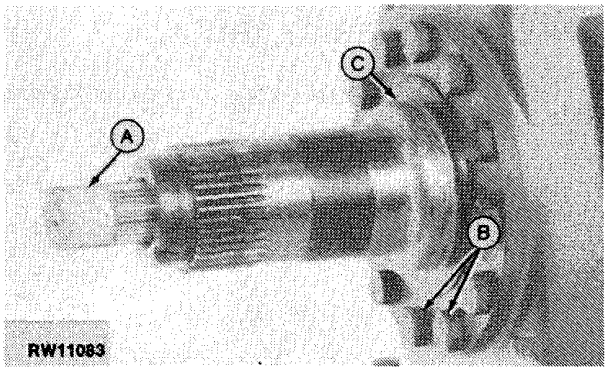
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2. Tape splined end of short axle shaft (A) so that tape covers end of axle and snap ring groove. This will help prevent damage to spindle seal.

3. Carefully install spindle over shaft. Install cap screws with the two shorter screws (B) located in the bottom two holes. Torque to 295 N·m (218 lb-ft).

4. Clean seal contact area (C) of spindle to be sure surface is free of rust. Coat seal contact area of spindle with special grease provided.

5. Continue with Adjust Steering Knuckle Rolling Drag Torque in this group.

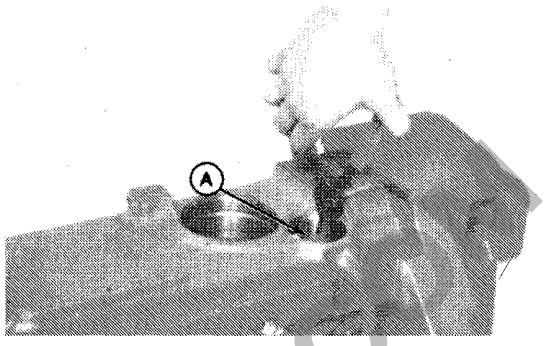


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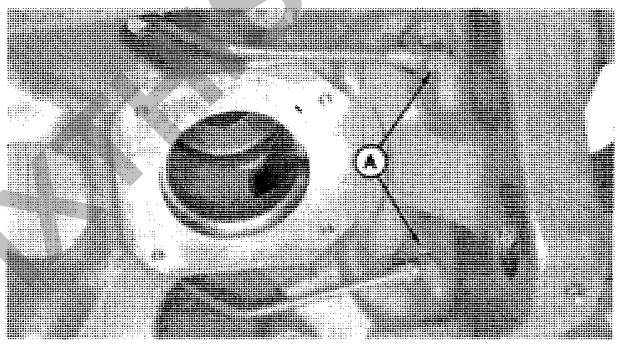
12. Remove snap ring to remove feedback piston plug (A).

13. Remove feedback piston.



AV5;R37600 R70;070100 59 220782

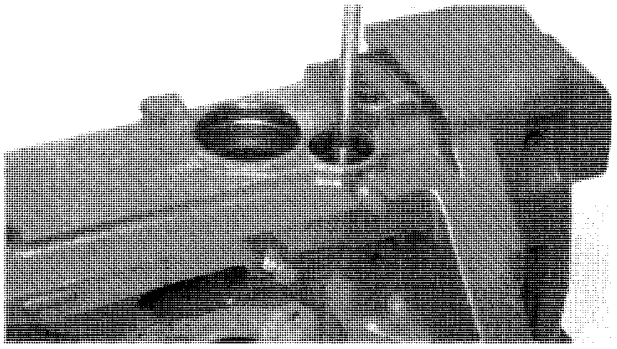
14. Remove feedback cylinder fittings (A) before removing feedback piston bushings.



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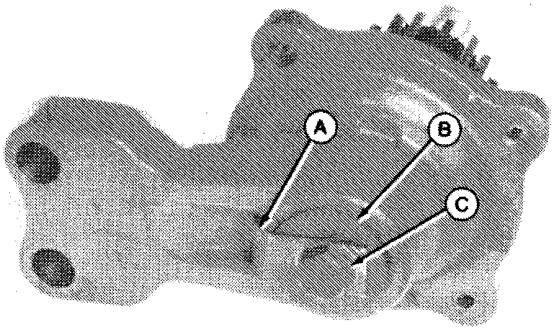
NOTE: Replace feedback piston bushings ONLY if necessary. Inspect bushing I.D. as described in Inspect Steering Motor Parts, this group, before removing it.

15. Use 33865 Collet from D-01061AA Blind-Hole Puller Set to pull feedback piston bushings.



AV5;R37602 R70;070100 61 220782

16. Remove cap screw (C) lock plate (A) and washer (B).



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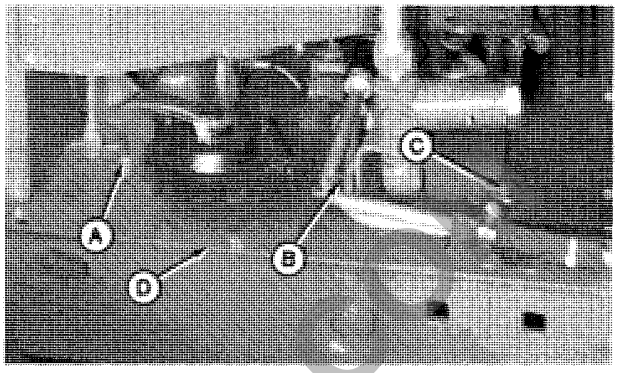
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13. Remove horn bracket cap screw (A) and horn. Remove oil cooler bracket cap screw (B), radiator cap screw (C) and frame plate (D) on left side.

NOTE: If foam is damaged or oil soaked, it should be replaced.

14. Disconnect hydraulic pump-to-steering motor line from top of steering motor housing.

A—Horn Bracket Cap Screw
B—Oil Cooler Bracket Cap Screw
C—Radiator Cap Screw
D—Frame Plate



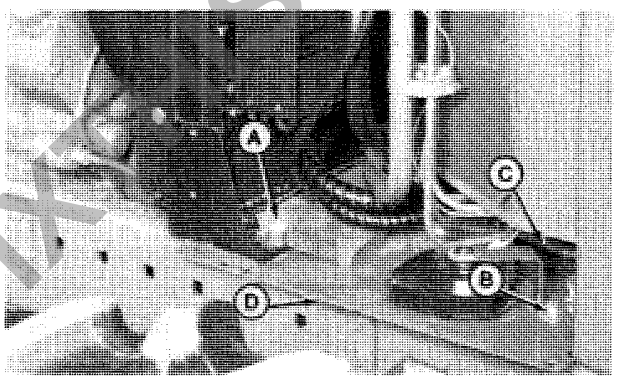
AF3;RW5789 U60;060005 KX2 180283

15. Remove radiator cap screw (A), horn bracket cap screw (B) and horn from right side.

16. Shut fuel supply off at fuel tank and disconnect fuel line (C).

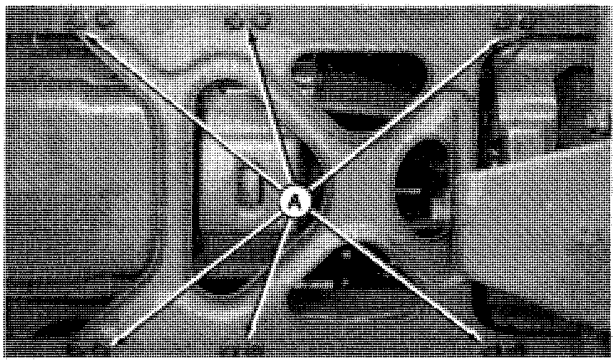
17. Remove frame plate cap screw and frame plate (D).

A—Radiator Cap Screw
B—Horn Bracket Cap Screw
C—Fuel Line
D—Frame Plate



AF3;RW5790 U60;060005 LX2 160383

18. Remove lower frame-to-side frame special cap screws (A).



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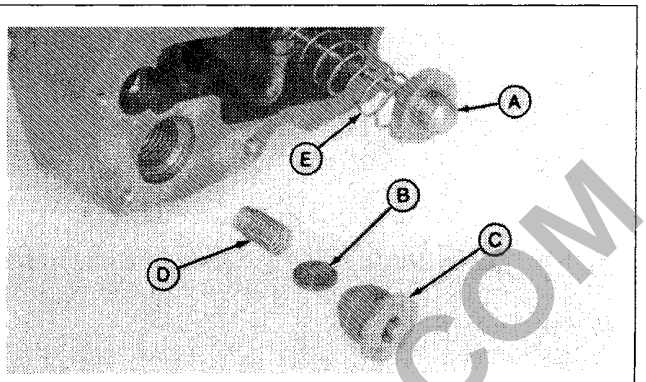
16. Remove damping valve seat (C), valve disk (B), and spring (D).

17. Inspect valve seat and disk mating areas for excessive wear, damage or contamination.

18. Use D-01168AA Spring Compressor Tester to check spring (D).

Free Length	Working Load Length
23.0 mm (0.906 in.)	14.2 mm at 1.6 to 2.0 N (0.560 in. at 6 to 7 ozf)

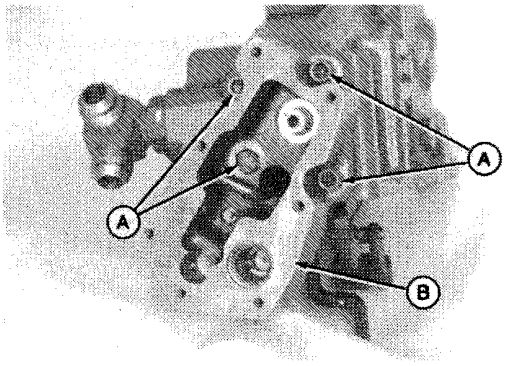
19. Remove load control valve (A) and return spring (E).



A—Load Control Valve
B—Valve Disk
C—Valve Seat
D—Spring
E—Spring

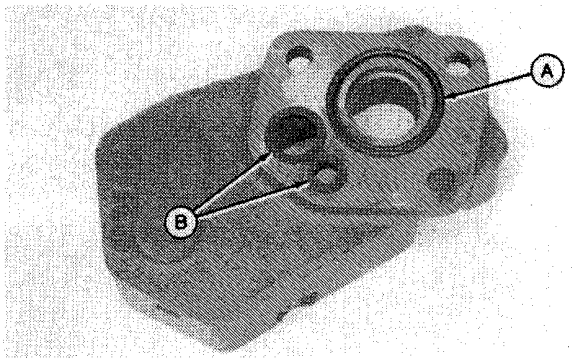
AW6;R36934 R70;070400 78 310383

20. Remove cap screws (A) to remove load control valve housing (B).



AW6;R36935 R70;070400 79 310383

21. Replace O-ring (A) and packings (B).



AW6;R36936 R70;070400 80 310383

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MONITORING SYSTEM OIL CLEANUP USING OIL TRANSFER UNIT

IMPORTANT: After tractor repair and while the tractor is running, perform the following steps for checking filter restriction at 10 min., 30 min., 1 hr., 2 hrs., and 3 hrs.

1. Run engine at 2000 RPM, with all controls in neutral.

2. Cover oil cooler to obtain oil temperature at least 49° C (120°F). (However if excessive temperature is indicated uncover a portion of the oil cooler.)

3. On INVESTIGATOR II equipped tractors monitor the filter service warning light on the dash.

4. On non-INVESTIGATOR II equipped tractors measure the pressure at the filter service port. At any time this pressure exceeds 1500 kPa (15.0 bar) (220 psi) replace transmission filter.

NOTE: Normal system pressure is 1200 kPa (12.0 bar) (175 psi). When the filter valve opens, pressure will be 1200 + 340 kPa (12.0 + 3.4 bar) (175 + 50 psi) or 1540 kPa (15.4 bar) (220 psi).

5. Replace hydraulic oil filter every other time the transmission oil filter is replaced.

6. After tractor has run for three hours, operate tractor in high gear for 15 minutes.

U70;070095 MX1 230487

SYSTEM CLEANUP PREPARATION USING OIL TRANSFER UNIT

1. Install new AR98098 oil filter element for both hydraulic and transmission circuits.

2. On INVESTIGATOR II tractors check monitoring system before cleanup procedure is started. (See INVESTIGATOR II Warning System, Electrical System in Section 240 of TM-1259, Operation and Tests).

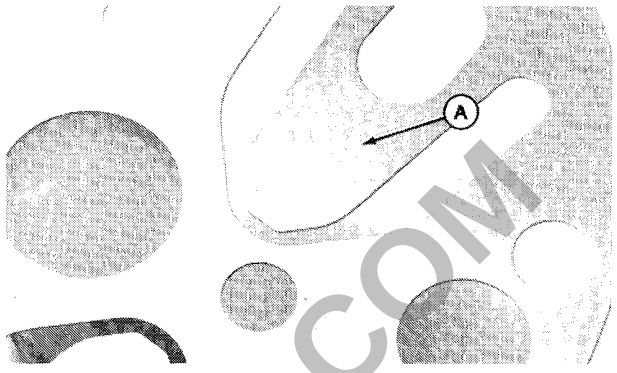
U70;070095 MX1 240487

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16. Inspect valve plate side of inlet reed valves for a complete circular wear pattern (A).

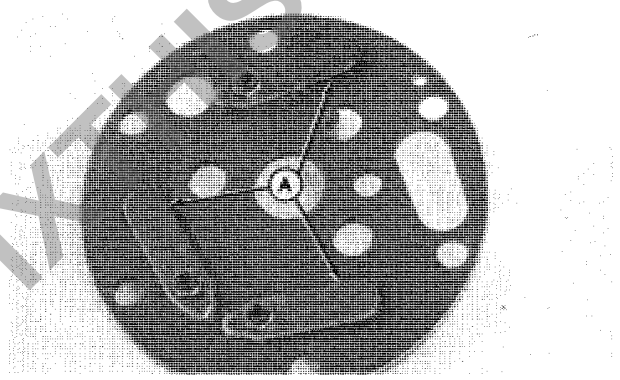
17. If wear pattern has any voids in it, replace reed valve.



AG7;RW3665 U90;090005 VX1 140285

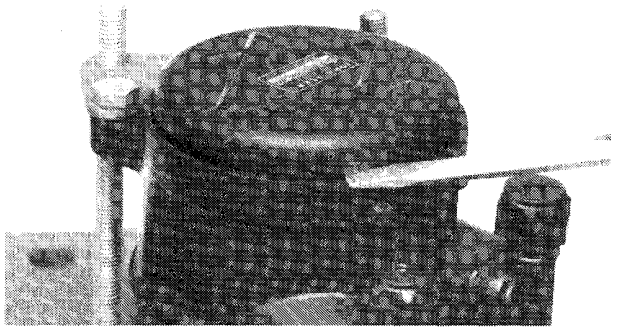
18. Inspect discharge valve plate for general condition. Valves (A) should have slight pressure against valve plate.

19. Hold valve plate up to light and verify that valve is against its seat. If condition is doubtful, replace valve plate.



AG7;RW10001 U90;090005 WX1 131185

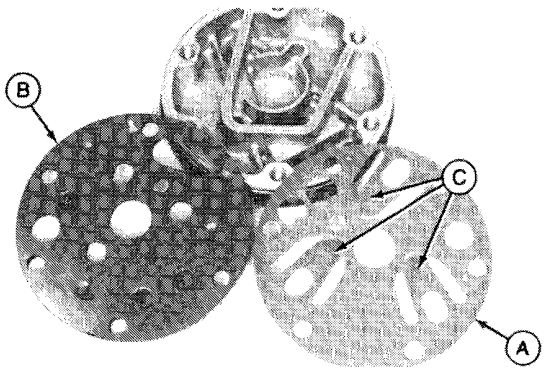
20. Turn compressor over and remove rear head by prying on the small tabs cast into the head. Pry lightly around circumference of head.



AG7;RW3668 U90;090005 ABX1 040981

21. Separate reed valve (A) from valve plate (B). Inspect the three valves (C) for complete circular wear pattern as previously instructed.

22. Use JDG-227 Valve Plate Puller to remove valve plate from head.

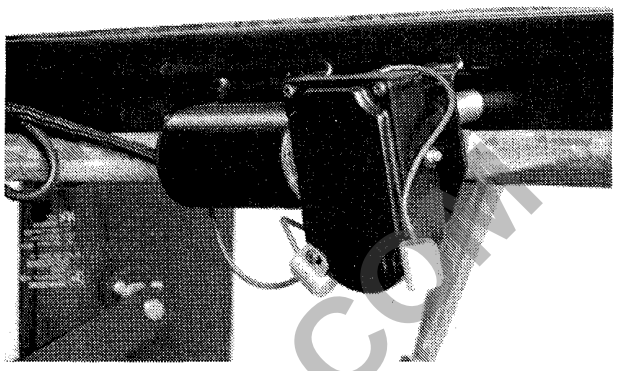


AG7;RW3669 U90;090005 AC1X1 101186

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REMOVE SOUND-GARD BODY DOOR AND STOP

1. Disconnect wiring from wiring motor (A).

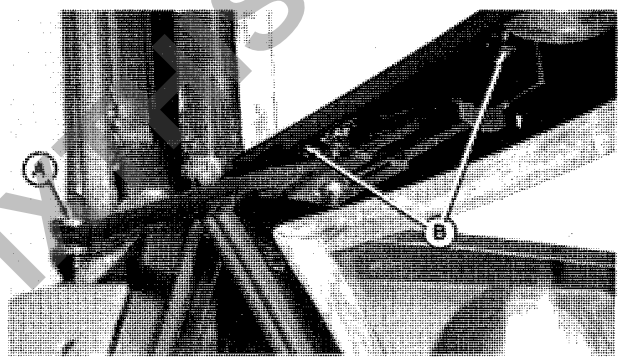


AC8;RW7344 U90;090020 CX2 020682

1. Disconnect headed pin (A) which fastens door stop bar to bracket on body center post.

2. Remove the two cap screws (B) securing door stop to door.

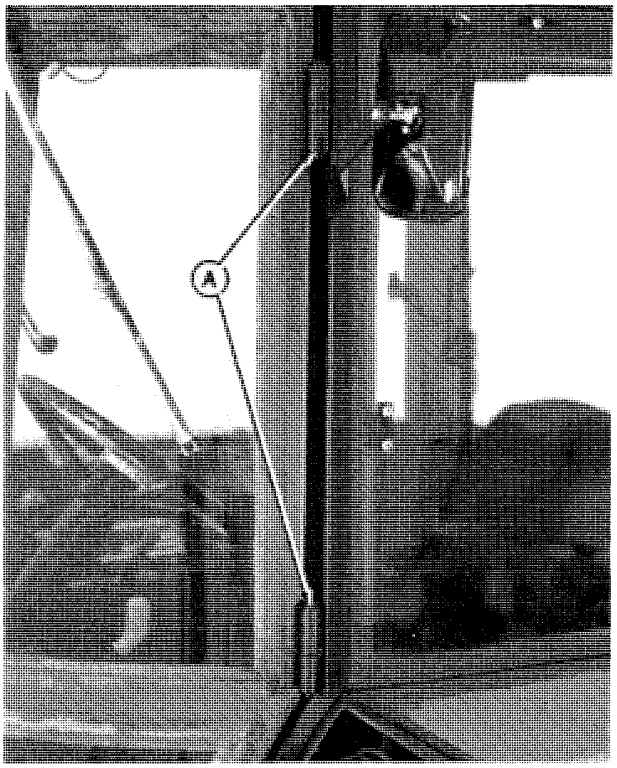
3. Remove door stop.



AC8;RW7346 U90;090020 EX2 020682

4. Disconnect pin from door stop bar and drive spring pins from door hinge pins (A).

5. Remove hinge pins and carefully remove door.



AC8;RW7345 U90;090020 DX2 020682

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CHECK SYSTEM OPERATION

The operation of the system can be checked as follows:

1. Start tractor and allow to run for at least 30 seconds.

2. Park tractor on a hard surface (compacted soil, gravel road, shop floor, etc.) and shut off engine.

3. Turn steering wheel full left to right (lock-to-lock) until accumulator is discharged and steering becomes manual.

4. The system should provide at least four full turns (lock-to-lock).

5. If operation appears unsatisfactory, check for the following:

   a) System check valve stuck open

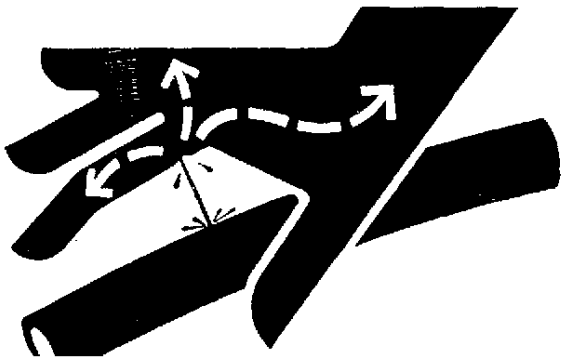
   b) Manual steering valves not seating

   c) Discharged system accumulator

   d) Leakage at fittings and connectors

U95;095085 BX1 131284

CHECK ACCUMULATOR PRESSURE



CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pin holes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If any fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

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