

10. Connect hoses (B) and (G) using new O-rings.
11. Install lines (C) and (F) using new O-rings, and retainers (H).
12. Install line (A) using new O-rings.

For 6100, 6500 (SN 6001—) 6600: A hose is used in this location.

13. Tighten plug (I) to 27 N·m (20 lb-ft).

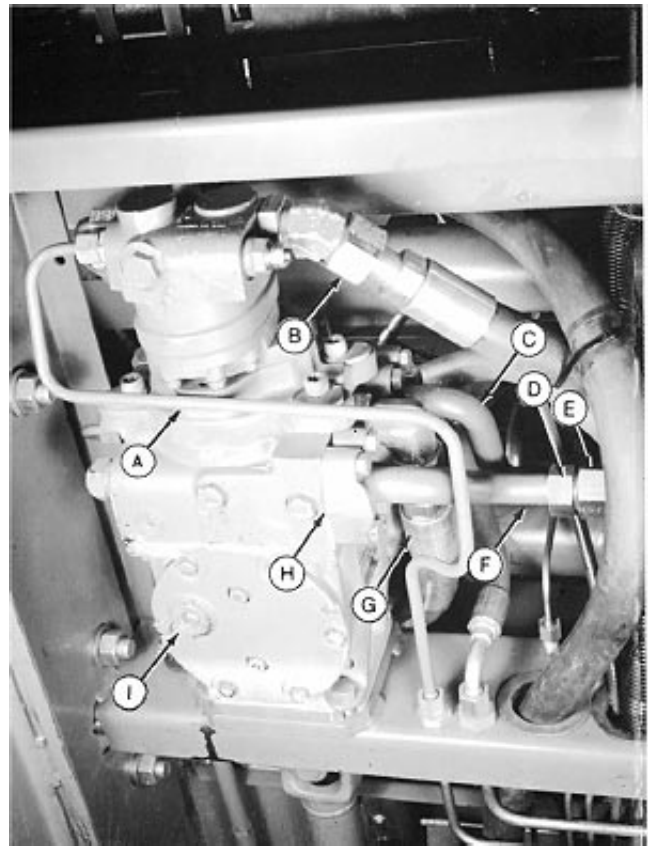
NOTE: To prevent overfilling reservoir, retract all hydraulic cylinders before completely filling reservoir.

14. Fill reservoir to sight glass with proper hydraulic oil. (See Section 10, Group 15.)

15. Adjust hydrostatic neutral linkage, if necessary. (See procedure in Section 250, Group 20.)

16. Install the solution tank. (See procedure in Section 80, Group 10.)

- | | |
|---|------------------|
| A—Hydraulic Line 6500 (SN —6000) | D—Fixed Nut |
| Hydraulic Hose 6100, 6500 (SN 6001—), 6600 | E—Connector Nut |
| B—Hydraulic Hose | F—Hydraulic Line |
| C—Hydraulic Line | G—Hydraulic Hose |
| | H—Retainer |
| | I—Drain Plug |

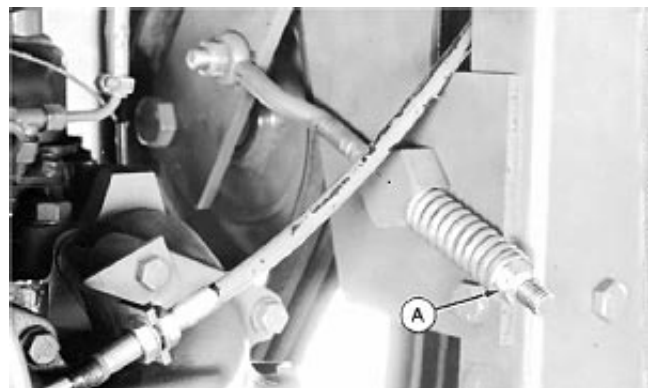


6500 (SN —6000) shown

NX1511,5005,M -19-25JUN97

REMOVE DRIVE SHAFT

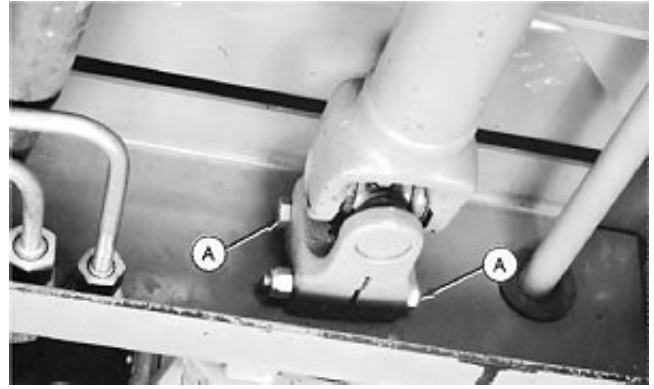
1. Remove solution tank. (See procedure in Section 80, Group 10.)
2. Remove nut (A) and spring.
3. Remove drive belt from drive shaft sheave.



NX1511,5005,N -19-21FEB94

Remove and Install Hydrostatic Components/Drive Shaft

4. Loosen cap screws (A).



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NX1511,5005,O -19-02NOV92

5. Remove nut and cap screw from hose clamp (C).

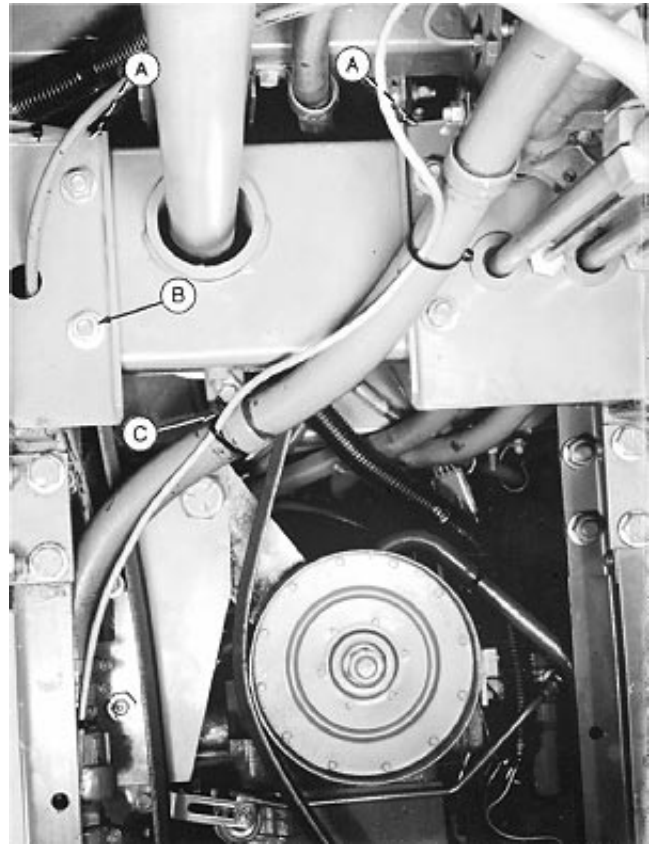
For 6500 (SN 6001—): Remove sheave bracket retainer (D), cap screws (F), washers, nuts and bracket (E).

6. Remove nut and cap screw (A).

7. Remove four nuts (B), cap screws and washers.

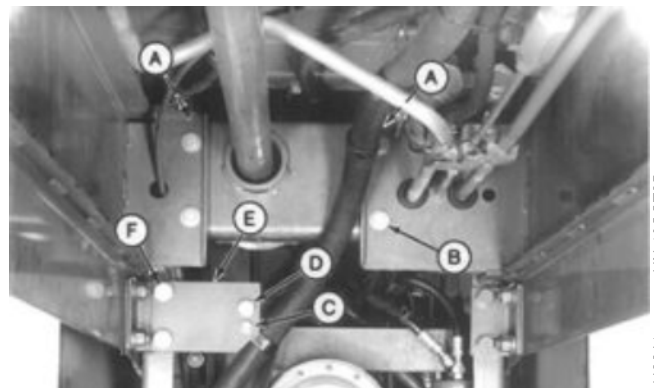
8. Remove drive shaft assembly.

- A—Cap Screw (2 used)
- B—Nuts (4 used)
- C—Hose Clamp
- D—Sheave Bracket Retainer
- E—Bracket
- F—Cap Screws (2 used)



N44774 -UN-30JUL92

6500 (SN —6000) Shown



N48641 -UN-10OCT95

6500 (SN 6001—) Shown

NX1511,5005,P -19-25JUN97

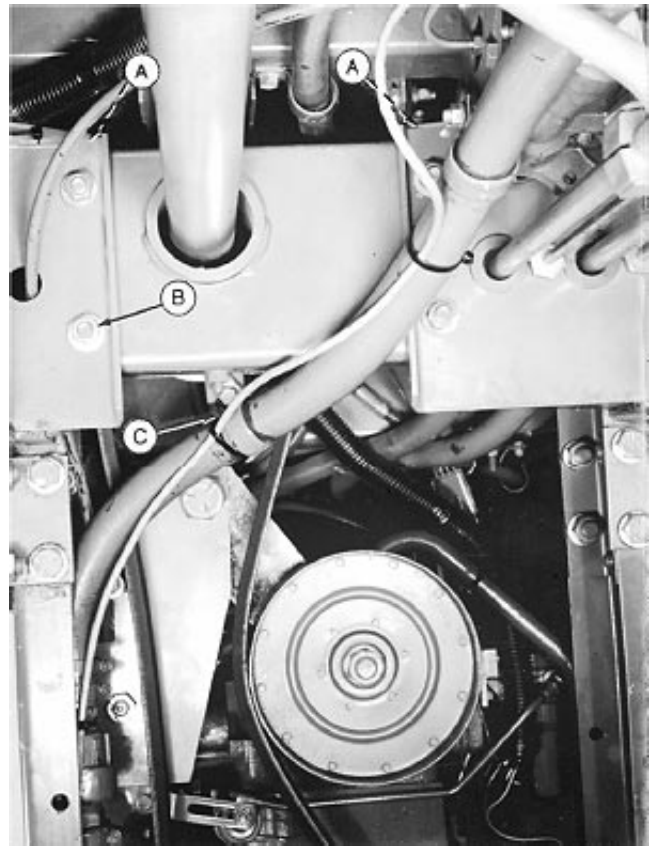
INSTALL DRIVE SHAFT

1. Coat splines of drive shaft yoke with John Deere NEVER-SEEZ[®] lubricant or equivalent.
2. Install drive shaft assembly. Install yoke on hydrostatic pump input shaft.
3. Install cap screws, washers and nuts (B).
4. Install cap screws (A) and nuts.

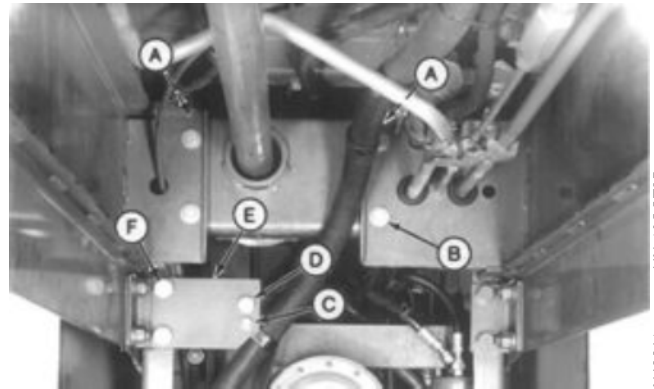
For 6100, 6500 (SN 6001—), 6600: Install bracket (E) using cap screws (F), washers and nuts. Install sheave bracket retainer (D).

5. Install clamp (C) using nut and cap screw.

- A—Cap Screws (2 used)
- B—Nuts (4 used)
- C—Hose Clamp
- D—Sheave Bracket Retainer
- E—Bracket
- F—Cap Screws (2 used)

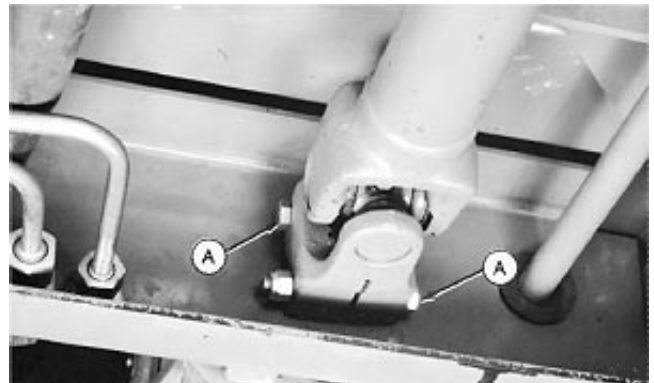


6500 (SN —6000) Shown



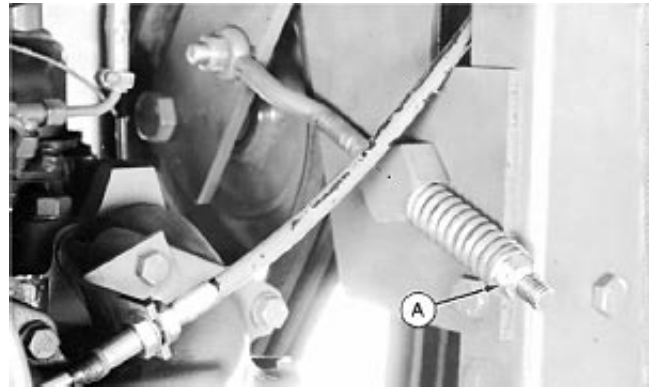
6500 (SN 6001—) Shown
NX1511,5005,Q -19-25JUN97

6. Tighten cap screws (A).



NX1511,5005,R -19-02NOV92

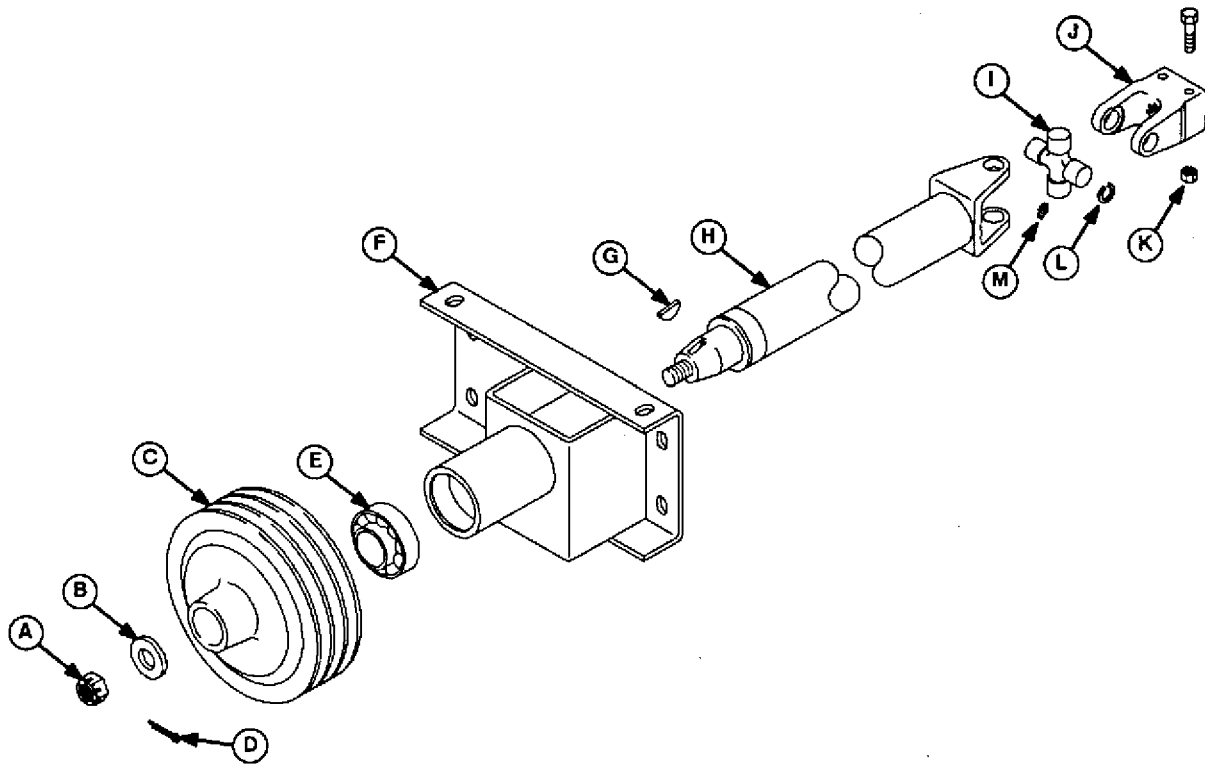
7. Install drive belt on drive shaft sheave.
8. Install spring and nut (A). Tighten nut to adjust idler spring to 61 mm (2.4 in.) and tension main drive belt.
9. Install solution tank. (See procedure in Section 80, Group 10.)



N44773 -JUN-30JUL92

NX1511,5005,S -19-02NOV92

INSPECT DRIVE SHAFT



A—Castellated Nut
B—Washer
C—Sheave
D—Cotter Pin

E—Bearing
F—Bracket
G—Woodruff Key

H—Drive Shaft
I—Cross
J—Yoke

K—Lock Nut (2 used)
L—Snap Ring
M—Lubrication Fitting

Inspect parts (A—M) for wear or damage. Inspect bearing (E) for smooth operation, driveshaft for

straightness and splines of yoke (J) for damage. Replace parts as necessary.

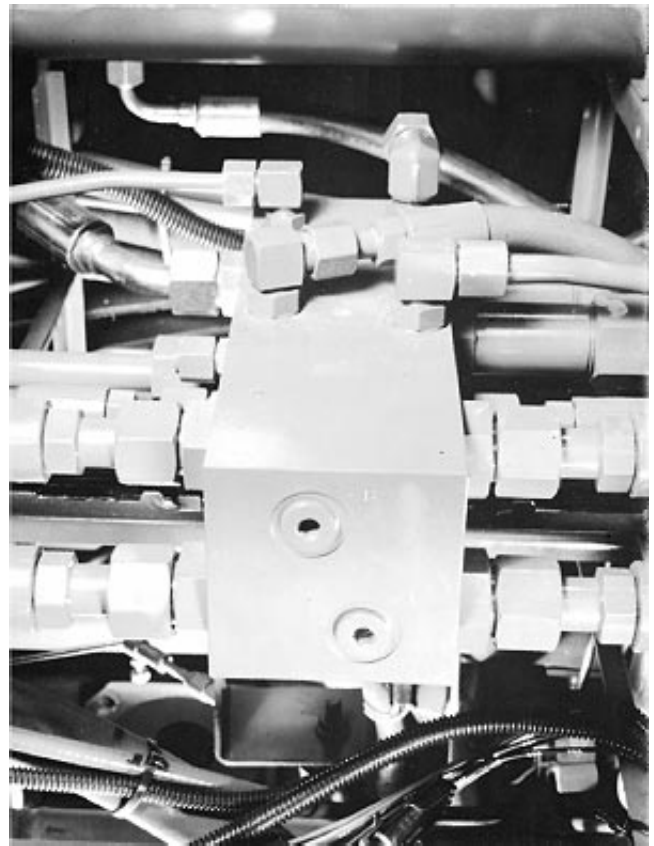
NX1511,5005,T -19-21NOV95

N44775 -JUN-03AUG92

REMOVE AND INSTALL MANIFOLD—6500 (SN —6000)

NOTE: Approximate capacity of reservoir is 34 L (9 gal.).

1. Drain reservoir.
2. Remove walking cover.
3. Label lines and hoses to aid in connection. Disconnect all lines and hoses from manifold. Close all openings using caps and plugs.



NX1511,5005,U -19-25JUN97

N44776 -JUN-30JUL92

50-05-11

4. Disconnect solenoid valve wiring connector (B), located at bottom of manifold.
5. Remove four cap screws (A). Remove manifold.
6. Inspect manifold for cracks or damage. Remove ground speed solenoid valve, if necessary. (See procedure in this group.)
7. Install manifold using cap screws.
8. Connect wiring connector.



NX1511,5005,V -19-21NOV95

N44777 -JUN-30JUL92

IMPORTANT: Replace all O-rings. Used or damaged O-rings can leak.

9. Connect all lines and hoses using new O-rings, as shown.

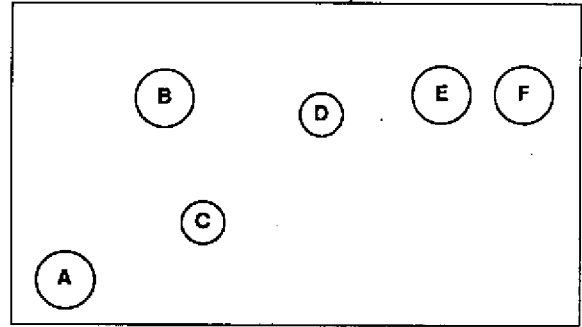
NOTE: To prevent overfilling, retract all hydraulic cylinders before completely filling reservoir.

10. Fill reservoir to sight glass with proper hydraulic oil. (See Section 10, Group 15.)

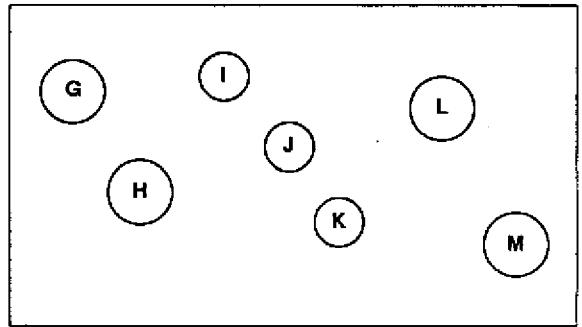
11. Operate all hydraulic functions and check manifold connections for leaks.

12. Install walking cover.

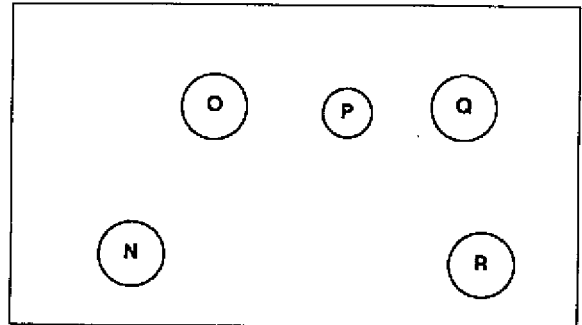
- A—LMA Port-to-Left Wheel Motor (rear fitting)
- B—LMB Port-to-Left Wheel Motor (front fitting)
- C—LC Port-to-Left Wheel Motor (lower fitting)
- D—LT Port-to-Left Wheel Motor (upper fitting)
- E—PA Port-to-Hydrostatic Pump A Port
- F—PB Port-to-Hydrostatic Pump B Port
- G—T Port-to-Reservoir
- H—R Port-to-Filter
- I—GR Plug
- J—RT Port-to-Right Wheel Motor (upper fitting)
- K—RC Port-to-Right Wheel Motor (lower fitting)
- L—RMA Port-to-Right Wheel Motor (front fitting)
- M—RMB Port-to-Right Wheel Motor (rear fitting)
- N—R Port-to-Tread Adjust Valve T Port
- O—R Port-to-Auxiliary Valve T Port
- P—GC Plug
- Q—C Port-to-Hydrostatic Pump
- R—R Port-to-Boom Control Valve T Port
- S—Plug
- T—Plug
- U—Ground Speed Solenoid Valve
- V—R Port-to-Steering Return Line (at crossmember)



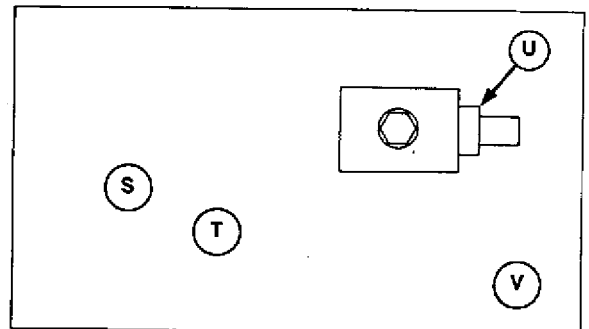
Right Side



Left Side



Top



Bottom

N44778 -UN-03AUG92
N44779 -UN-03AUG92
N44780 -UN-03AUG92
N44781 -UN-03AUG92

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12

REMOVE AND INSTALL GROUND SPEED SOLENOID VALVE—6500 (SN —6000)

NOTE: Approximate capacity of reservoir is 34 L (9 gal).

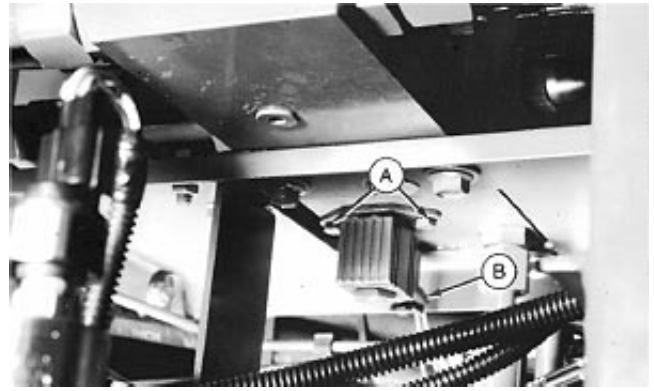
1. Drain the hydraulic reservoir.

NOTE: Ground speed solenoid valve is located on bottom of manifold.

2. Disconnect wiring connector (B).
3. Remove two cap screws (A). Remove valve.
4. Inspect valve. (See procedure in this group.) Replace if necessary.
5. Install valve.
6. Connect wiring connector.

NOTE: To prevent overfilling, retract all hydraulic cylinders before completely filling reservoir.

7. Fill reservoir to level of sight glass using proper hydraulic oil. (See Section 10, Group 15.)

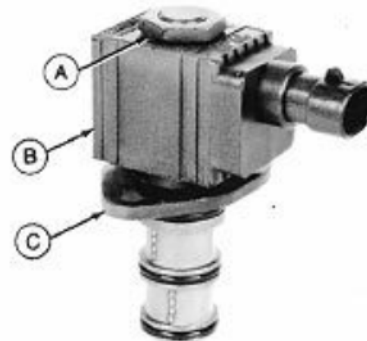


N44782 -UN-30JUL92

NX1511,5005.X -19-25JUN97

INSPECT GROUND SPEED SOLENOID VALVE—6500 (SN —6000)

1. Remove nut (A).
2. Remove solenoid (B) and clamp (C).



N44783 -UN-30JUL92

NX1511,5005.Y -19-25JUN97

Remove and Install Hydrostatic Components/Ground Speed Solenoid Valve

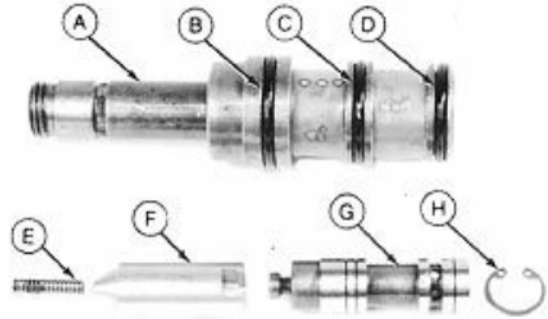
3. Remove parts (A—H).

4. Clean and inspect parts for wear or damage. Replace valve if necessary.

5. Replace all O-rings.

6. Install parts.

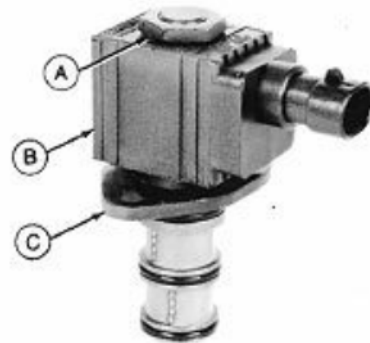
- A—Valve Body
- B—O-Ring
- C—O-Ring
- D—O-Ring
- E—Spring
- F—Plunger
- G—Spool
- H—Snap Ring



-UN-30JUL92
N44784

NX1511,5005,Z -19-21NOV95

7. Install parts (A—C). Tighten nut (A) to 6 N·m (53 lb-in.).



-UN-30JUL92
N44783

NX1511,5005,AA -19-02NOV92

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14



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