CASE

PROFESSIONAL PARTNER

OPERATOR'S MANUAL

WHEEL LOADER

921E
TIER 3

87480042 NA
Replaces 87508966 NA

Issued 01 April 08

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Chapter 2

SAFETY, AND DECALS

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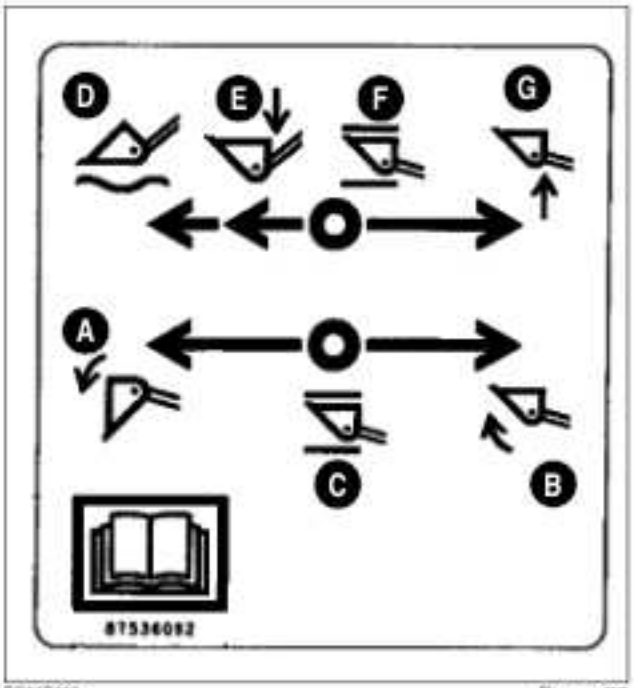
TWO SPOOL VALVE - TWO CONTROL LEVERS



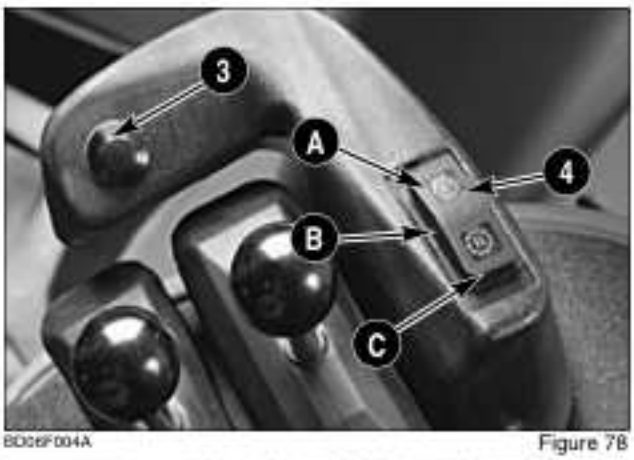
BD06F00RA Figure 76

1. BUCKET CONTROL
   - A. DUMP
   - B. ROLLBACK
   - C. HOLD: The loader arms and bucket will not move when the control lever is in the HOLD position. When released, the control lever will automatically return to the HOLD position. You must manually move the control lever from the FLOAT position to the HOLD position
2. LIFT ARM CONTROL
   - D. FLOAT (Detent): This is a detent position. When in the FLOAT (Detent) position, the loader bucket can follow the level of the ground without movement of the control lever.
   - E. LOWER
   - F. HOLD
   - G. RAISE

See Transmission Operation/Initial Machine Movement for moving the machine after start up.



BS00B353 Figure 77



BD06F004A Figure 78



BC00B118

3. TRANSMISSION DOWNSHIFT BUTTON: Drops the transmission down one gear at a time.



BC00B124

4. FNR Switch: This switch will allow the operator to put the transmission in Forward, Neutral or Reverse. To activate this auxiliary F-N-R switch the proper sequence must be followed. The primary shift lever must be in the Neutral position before using the auxiliary FNR switch. Push the switch forward to place the transmission in Forward, place the switch in the middle position to place the transmission in Neutral, and pull the switch rearward to put the transmission in Reverse.

- A. Forward (Transmission)
- B. Neutral (Transmission)
- C. Reverse (Transmission)

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100 HOUR MAINTENANCE

CHANGE ENGINE OIL AND FILTER (Initial)

Service Specifications

Type of oil . . . . . Case Akcela (SAE 15W-40)
Capacity (with filter change) . . . . . 32 qt. (30.3 L)

Change the engine oil and filter when the hour meter registers 100 hours for a new machine during the initial run-in period. The engine oil and filter should be changed every 500 hours thereafter or more frequently when the engine operating conditions are severe.

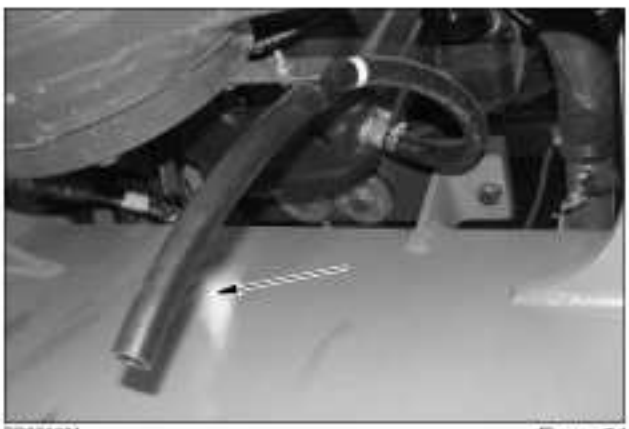
1. Keep all non-authorized personnel clear of the area. Park the machine on level ground, in neutral with the parking brake applied.
2. Lower bucket/attachment to the ground and install the transport/service link into the lock position.



BD07A020 Figure 33

ENGINE OIL DRAIN

3. Attach the drain hose.



BD07A021 Figure 34

4. Use a suitable container to capture the used oil, and turn the drain valve to open. Drain the engine oil.

NOTE: *When changing engine oil, the oil flow rate can be improved if the oil fill cap or dipstick is removed from the engine while draining.*

REPLACE OIL FILTER

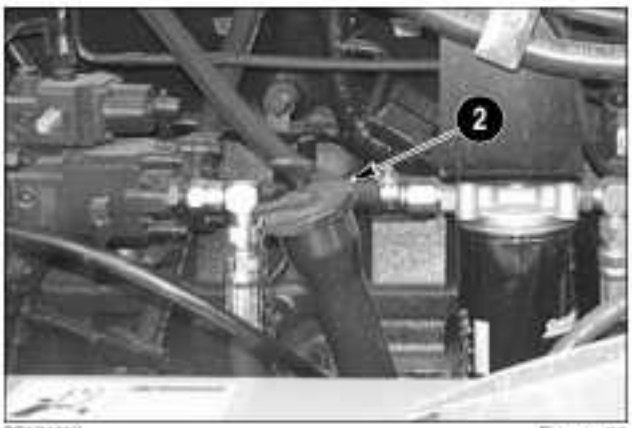


BD07A023 Figure 35

5. Clean the area around the filter of dirt and debris.
6. Turn the filter counterclockwise to remove. Remove and discard the filter following local environmental and waste regulations.
7. Apply a thin layer of clean oil to the new filter gasket.

IMPORTANT: *Never use a filter wrench to install a new filter.*

8. Turn the new oil filter onto the base until the gasket makes contact with the base and then turn by hand an additional 3/4 turn.
9. Close the remote drain.



BD07A01Y Figure 36

10. Fill the engine with the proper amount of oil.
11. Start the engine and run at idle speed. Check the engine oil filter and remote drain for leaks.
12. After two minutes stop the engine.
13. Wait for the engine oil to drain down for an accurate reading on the dipstick.
14. Check the dipstick and add additional oil, if necessary.
15. Secure the engine access cover.

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1000 HOUR MAINTENANCE

CHANGE FRONT AND REAR AXLE OIL

Service Specifications

Service Specifications

Front axle. . . . . 54 qt. (51 L)
Rear axle . . . . . 54 qt. (51 L)

With axle coolers

Front axle. . . . . 58 qt. (55 L)
Rear axle . . . . . 58 qt. (55 L)

Drain and replace the front and rear axle oil every 1000 hours or more frequently when operating conditions are severe.

WARNING: *Make sure that the bucket/attachment is resting on the ground and the transport/service link is installed to stop unexpected articulation.*

1. Clean the area around the drain and fill caps of both axles and all four axle ends.



BD07A030 Figure 60

2. Place a suitable container with sufficient capacity to capture the old oil under the front and rear axles and drain.



BD07A032 Figure 61

3. Place a suitable container with sufficient capacity to capture the old oil under each axle end.
4. Reinstall the drain plugs of both axles and the four axle ends.

NOTE: *The oil will take some time to fill each axle. Allow time for the oil to circulate throughout the axle.*



BD01E138 Figure 62

5. Fill the axle with new axle oil. Replace the plug, taking care not to damage the seal. Oil should reach the bottom of the fill plug.

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