# 721D
# Wheel Loaders

## Operator's Manual

Revision Date 09/2004

Bur 6-35092NA

CASE
CONSTRUCTION

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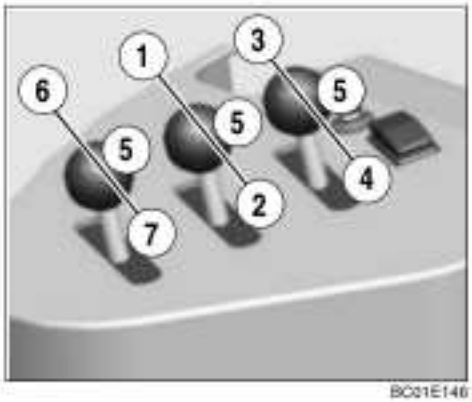
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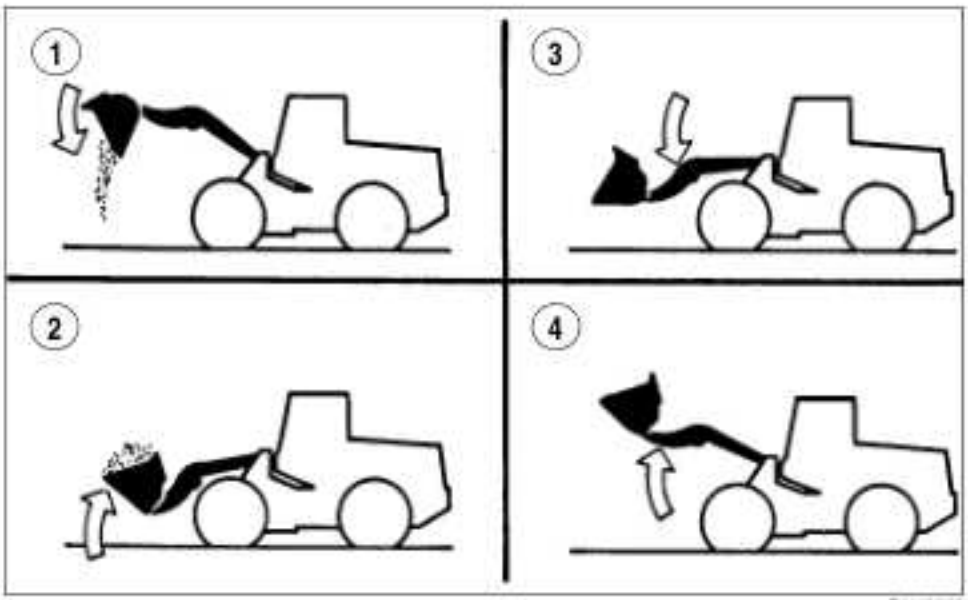
## THREE SPOOL VALVE - THREE CONTROL LEVERS




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**NOTE:** *This page shows the basic loader control lever positions. The Detent Switch for the loader functions is in the OFF position.*

See Loader Function Switches in this manual for RETURN-TO-DIG, BUCKET HEIGHT CONTROL and RETURN-TO-TRAVEL/FLOAT switches.




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1. **DUMP BUCKET**
2. **ROLLBACK BUCKET**
3. **LOWER LIFT ARMS**
4. **RAISE LIFT ARMS**
5. **HOLD:** THE LOADER ARMS AND BUCKET WILL NOT MOVE WHEN THE CONTROL LEVERS ARE IN **HOLD**. WHEN RELEASED, THE CONTROL LEVERS WILL RETURN TO **HOLD** AUTOMATICALLY.
6. **7.) AUXILIARY FUNCTION**.

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# LUBRICATION/MAINTENANCE CHART

| PAGE | SERVICE POINTS | NO. OF POINTS | INTERVALS IN HOURS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | CLEAN | REPLACE | CHECK | GREASE | CHANGE | DRAIN WATER | ADJUST |
| 165 | Air Cleaner (See Note 1) | | | | AR | | | | |
| 178 | Hydraulic Filter (See Note 2) | | | | AR | | | | |
| 210 | Alternator, AC,Drive Belt | | | | AR | | | | |
| 162 | Engine Oil Level (See Note 3) | | | | 10 | | | | |
| 169 | Radiator Coolant Level (See Note 4) | | | | AR | | | | |
| 181 | Transmission Oil Level (See Note 5) | | | | 50 | | | | |
| 176 | Hydraulic Reservoir Fluid Level | | | | 50 | | | | |
| 169 | Engine Coolant Surge Bottle (Note 4) | | | | 50 | | | | |
| 149-154 | Bucket and Bellcrank Pivots (See Note 6) | 6-10 | | | | 50 | | | |
| 151 | Front Drive Shaft Support Bearing | 1 | | | | 50 | | | |
| 151 | Steering Cylinder Pivots | 4 | | | | 100 | | | |
| 151 | Loader Lift Arm and Cylinder Pivots | 10 | | | | 100 | | | |
| 163 | Engine Oil (See Note 12) | | | | | | 500 | | |
| 163 | Engine Oil Filter | | | 500 | | | | | |
| 163 | Crankcase Ventilation Filters | | | 500 | | | | | |
| 210 | Alternator, AC,Drive Belt | | | | 250 | | | | |
| 133 | Tire Condition and Air Pressure | | | | 250 | | | | |
| 188 | Cab Air Filter | | 250 | | | | | | |
| 214 | Battery Fluid Level (See Note 7) | | | | 500 | | | | |
| 175 | Fuel Filter | | | 1000 | | | | | |
| 174 | Fuel Tank | | | | | | | 500 | |
| 208 | ROPS and Seat Belt Mount Bolts | | | | 500 | | | | |
| 184 | Axle Oil Level Front and Rear | | | | 500 | | | | |
| 178 | Hydraulic Filter | | | 1000 | | | | | |
| 181 | Transmission Filter (See Note 8) | | | 1000 | | | | | |
| 182 | Transmission Oil (See Note 11) | | | | | | 1000 | | |
| 181 | Transmission Breather | | 1000 | | | | | | |
| 153 | Upper and Lower Chassis Pivots | 2 | | | | 1000 | | | |
| 174 | Water Separator | | | 1000 | | | | | |
| 184 | Front and Rear Axle Differential, Planetary Oil (See Note 11) | | | | | | 1000 | | |
| SM | Turbocharger Mounting Bolt Torque | | | | 2000 | | | | |
| 180 | Hydraulic Oil (See Note 9) | | | | | | 2000 | | |
| 169 | Engine Coolant | | | | | | 2000 | | |
| 165 | Air Filter Elements | | | 2000 | | | | | |
| SM | Valve Clearance | | | | 2000 | | | | |

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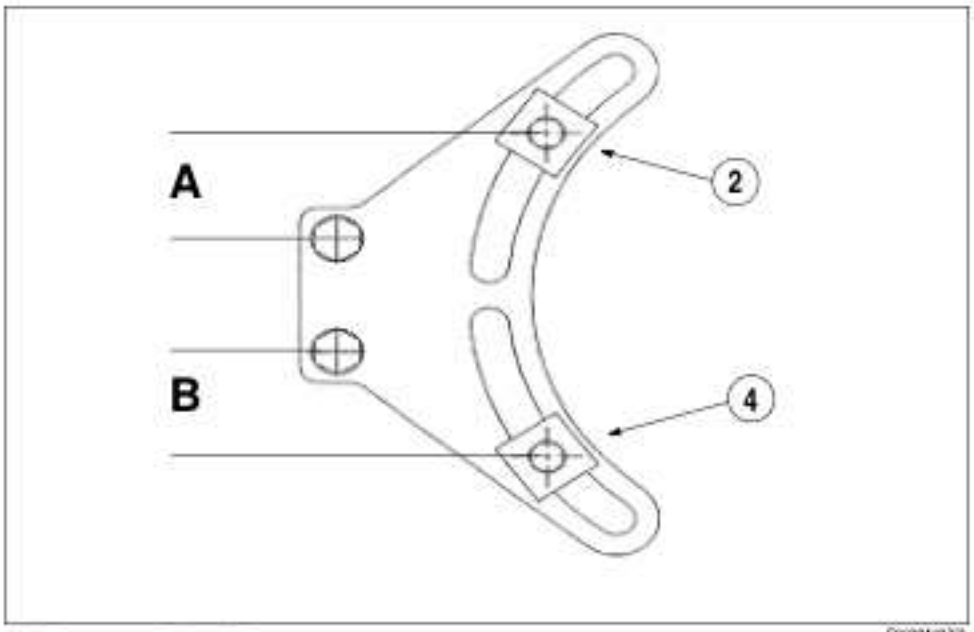


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2.) Return to Travel Target
4.) Height Control Target

3. The Location of the height control target within its slot in the target mounting plate will determine the automatic stopping height of the lift arms as they are raised. The higher the target is positioned in its slot in the target mounting plate, the lower the lift arms will automatically stop as they are raised. Position the target per the table below. Tighten the target in this position.

| MACHINE | A mm (in) | APPROXIMATE RESULTING RETURN TO TRAVEL HINGE PIN HEIGHT | B mm (in) | APPROXIMATE RESULTING HEIGHT CONTROL HINGE PIN HEIGHT mm (in) |
|---|---|---|---|---|
| 721D Z-BAR | 56 (2.20in) | 403 (15.87 in) | 42 (1.65 in) | 3302 (130 in) |
| 721D XT | 60 (2.36 in) | 386 (15.20 in) | 32 (1.26 in) | 3302 (130 in) |

4. The location of the return to travel target within its slot in the target mounting plate will determine where the lift arms will automatically stop while they are lowered. The higher this target is located in its slot in the target mounting plate the lower the lift arms will automatically stop as they are lowered. Position the target per the above table. Tighten the target in this position.

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