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Hough

Operator's Manual

H-30B

Front End Loader

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HO-O-H30B

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Fig. 1. INTERNATIONAL 30B Rubber-tired Loader

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GENERAL

Any cross references in this manual are to a specific section of the manual.

Some illustrations are of general application of this model and may not show your equipment accurately in all details.

Throughout this manual the use of the terms "left," "right," "front," and "rear" must be understood to avoid confusion when following instructions. "Left" and "right" indicate the left and right sides of the loader when facing forward in the operator's seat. (See Fig. 1).

SERIAL NUMBERS

The machine serial number plate (Fig. 2) is located on the control panel to the right of the steering wheel. This number is also stamped on the LH side of the rear frame (Fig. 3).



Fig. 2. Machine Serial Number Plate

GASOLINE ENGINE: The engine serial number is stamped on a pad located on the RH side of the engine below the crankcase breather (Fig. 4).

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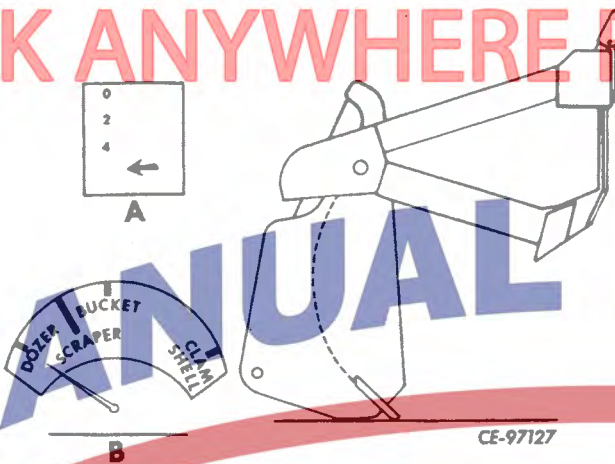


Fig. 11. Multi-Purpose Bucket Set In "DOZER" Position

"DOZER" (B, Fig. 11). Cut depth is controlled by tilting the blade forward or backwards. For a deep cut, tilt the bucket forward (B, Fig. 12). For a lesser amount of cut, tilt the blade farther back (C, Fig. 12). Position A, Fig. 12, is for level grading.

To use the multi-purpose bucket as a clam shell, open the clam until the indicator is at the bottom or completely open (A, Fig. 13). Tilt the bucket forward until the position indicator is on the "CLAM SHELL" increment (B, Fig. 13).

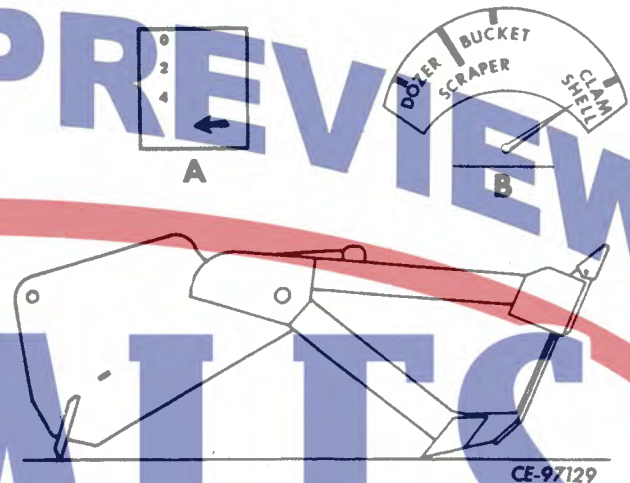


Fig. 13. Multi-Purpose Bucket In "CLAM SHELL" Position

AUTOMATIC BOOM KICK-OUT (If Equipped) (Fig. 14)

The automatic boom kick-out is a bar mounted to the boom lever which extends to the top of the boom pivot mount. A chip welded to the boom strikes the upper end of the bar, causing it to push the boom lever out of the raise position, allowing it to return to "hold". The turnbuckle on the bar can be adjusted to obtain the desired height for each dumping operation.



Fig. 12. Dozer Blade Tilt Positions



Fig. 14. Automatic Boom Kick-Out

SCHEDULED MAINTENANCE

ITEM 13 — DIFFERENTIAL (Fig. 13)

Checking Oil Level

NOTE: (Machines equipped w/four wheel drive.) Both the front and rear differentials are checked in the same manner.



Fig. 11



Fig. 13

1. While the lubricant is at operating temperature park the machine on level ground, completely lower the bucket, stop the engine and apply the parking brake.
2. Remove the filler and level check plug; if the lubricant is below the plug hole add lubricant as necessary to bring the level up to the bottom of the hole. Refer to the "LUBRICANT SPECIFICATIONS AND CAPACITIES CHART" in this section for the grade of lubricant specified.
3. Install the filler and level check plug.

Changing the Oil

Drain the differential(s), clean the breather(s) and refill with clean oil. Refer to "DRIVE AXLE" in Section 8.

ITEM 14 — TRANSMISSION OIL

Checking Oil Level (Fig. 14)

NOTE: If transmission oil leakage is suspected or if machine has been out of operation for a length of time check transmission oil level gauge with the machine cold and the engine off. Oil level should appear on the gauge during this condition; if not add oil before proceeding to the following steps.



Fig. 12

Changing the Oil

Drain the final drive hubs and refill with clean oil. Refer to "DRIVE AXLE" in Section 8.

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TORQUE CONVERTER

Type Single stage
Stall Ratio 2.54:1 @ 2200 rpm

TRANSMISSION

Make International Harvester
Model P-600
Type Three speed, constant mesh, full power shift

DRIVE AXLE(S)

Make International Harvester
Model:
Rigid 212 608 H1
Steering 212 605 H8
Type High-traction
Differential Ratio 4.375:1

BRAKES

Service:
Type Axle by axle, hydraulic, expanding shoe
Parking:
Type Mechanical, expanding shoe

HYDRAULIC SYSTEM

Main Hydraulic Pump:
Type Gear
Capacity 102.2 litres/min (27 gpm) @ 2200 engine rpm
Steering Circuit:
Cylinders:
Quantity 1
Bore 63.5mm (2.5 in.)
Stroke 254mm (10 in.)

Loader Circuit:

Cylinders:
Boom:
Quantity 2
Bore 101.6mm (4 in.)
Stroke 685.8mm (27 in.)

Bucket:

Quantity 1
Bore 101.6mm (4 in.)
Stroke 412.7mm (16.25 in.)

Action Time (empty):

Boom Lift 7 sec.
Bucket Rollback 2.3 sec.

TIRES

Size:
Standard 12.0 x 24 — 8 ply (G-2)
Optional 13.0 x 24 — 8 ply (G-2)
Optional 13.0 x 24 — 12 ply (G-2)
Optional 14.0 x 24 — 8 ply (G-2)
Optional 15.5 x 24 — 12 ply (L-2)