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MANUAL PREVIEW

Hough

Operator's Manual

H-65B

PayLoader

Operator's Manual

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HO-O-H-65B

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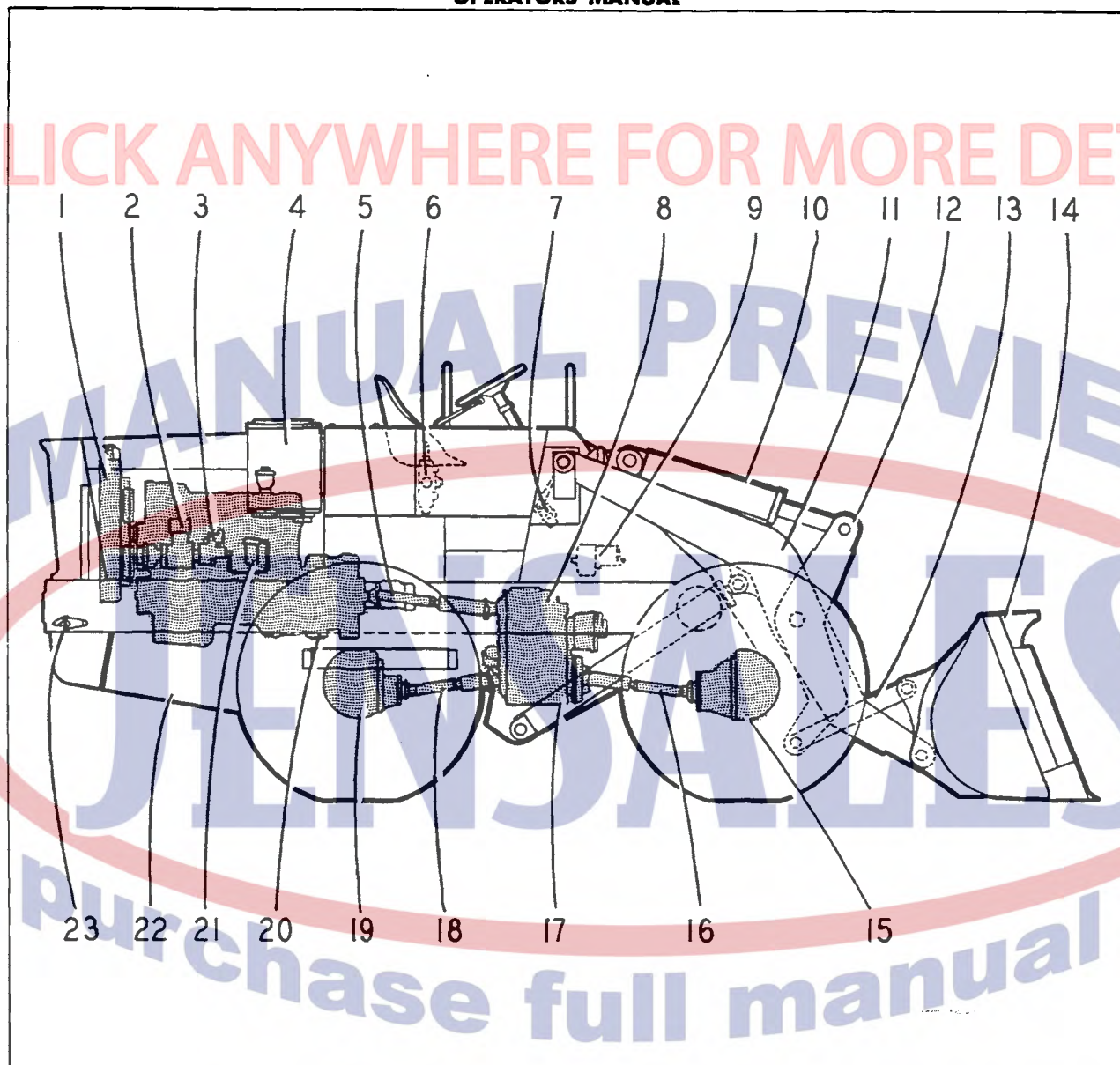
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|----------------------------|-----------------------|-----------------------|
| 1. Radiator | 9. Brake Power Unit | 17. Boom Cylinder |
| 2. Air Compressor | 10. Bucket Cylinder | 18. Rear Drive Shaft |
| 3. Fuel Pump | 11. Boom | 19. Final Drive |
| 4. Hydraulic Reservoir | 12. Bellcrank | 20. Accessory Housing |
| 5. Upper Drive Shaft | 13. Bucket Link | 21. Fuel Filter |
| 6. Control Valve Assembly | 14. Bucket Assembly | 22. Fuel Tank |
| 7. Air Brake Control Valve | 15. Front Final | 23. Towing Hook |
| 8. Transmission | 16. Front Drive Shaft | |

Figure 1. General arrangement

SPECIFICATIONS

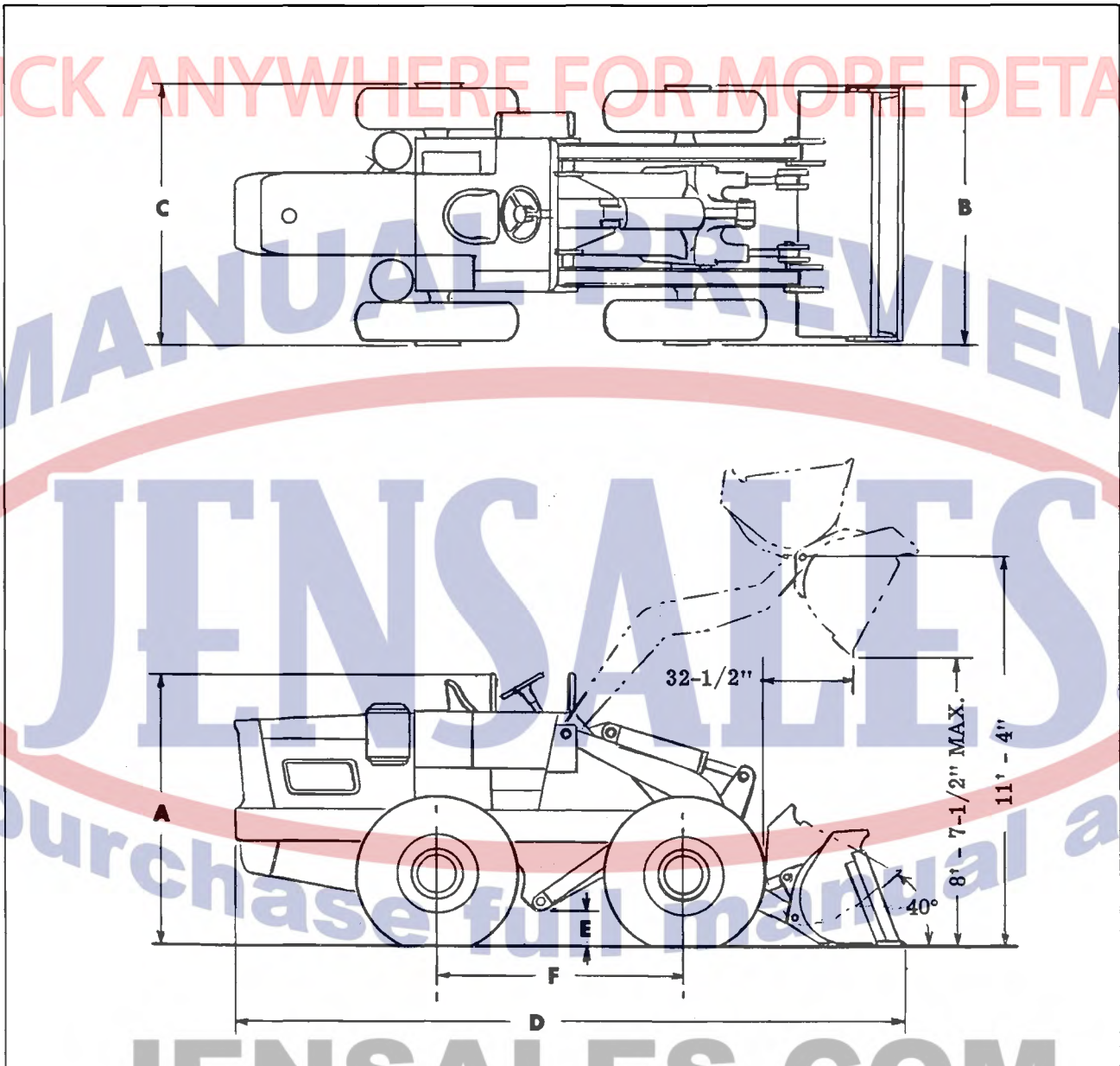


Figure 2. Exterior dimensions

GENERAL.

A Height over ladder (maximum)	94.5 in.	E Ground clearance	12.75 in.
Width at front tires	86.5 in.	F Wheel base	82 in.
Width at rear tires	91.5 in.	Total axle oscillation	20 degrees
B Width at front hubs	89.5 in.	Turning radius (outside rear corner of grille)	249 in.
C Width at rear hubs	94.5 in.	Drawbar pull (dry concrete)	14,400 lb.
D Length with bucket on ground	222 in.	Weight on front axle	6,600 lb.
Length with bucket at carry	219.5 in.	Weight on rear axle	11,600 lb.
		Total weight	18,200 lb.

INTRODUCTION

ENGINE.

	Gasoline	Diesel
Manufacturer	I. H. C.	Cummins
Model	U-372	JN-6-CI
Type	Naturally aspirated-four stroke spark ignited	Naturally aspirated-four stroke diesel
No. of cylinders	6	6
Max. torque	288 ft. lb. (1200 rpm)	320 ft. lb. (1600 rpm)
Governed speed	2200 rpm	2200 rpm
Horsepower (at max. eng. speed)	110	124
Bore	4-3/8 in.	4-1/8 in.
Stroke	4-1/8 in.	5 in.
Displacement	372 cu. in.	401 cu. in.
Cooling system capacity	30 qt.	30 qt.
Fuel tank capacity	60 gal.	60 gal.
Air cleaner	Composite dry type	Composite dry type
Crankcase capacity (refill w/ filter)	8 qt.	24 qt.

TRANSMISSION.

Make	The Frank G. Hough Co.	
Model	P-600	
Type	Three speed, constant mesh, full reversing, power shift.	
Speed ranges	Max. forward road speeds (MPH)	Max. reverse road speeds (MPH)
1	3.1	3.7
2	6.7	8.1
3	18.7	22.4

Clutches	Multiple disc, oil cooled
Automatic main pressure cut-off	Air operated
Parking brake	Mechanical, internal expanding

TORQUE CONVERTER.

Make	I. H. C.
Model	13 in. dia.
Type	Single stage, single phase
Stall ratio	2.72 to 1
Input speed (max.)	2200 rpm
Converter stall speed	2200 rpm
Input torque (at stall)	200 ft. lb.

STEERING SYSTEM.

Steering gear make	Ross Gear & Tool Co. Inc.
Steering gear type	Mechanical stud & lever with semi-integral hydraulic control valve
Model steering gear	HPS-70 Series
Model control valve	HP-70 Series
Pump (part of model 2521V pump)	Vane type, positive displacement
Pump capacity (1200 rpm pump speed)	9 gpm (100 psi)
Max. system pressure (at governed engine speed)	1500 psi

LOADER MECHANISM.

Bucket closing time	2.9 sec.
Bucket opening time	1.9 sec.
Boom raising time	8.8 sec.
Boom lowering time	5.8 sec.
Bucket rod	5 in. dia. chrome plated
Boom rods (2)	4.5 in. dia. chrome plated

HYDRAULIC SYSTEM.

Design type	Sealed; pressure controlled
Pump manufacturer	Vickers Incorporated
Pump model	2521V
Pump capacity (1200 rpm pump speed)	21 gpm (100 psi)
Max. system pressure (at governed engine speed)	1800 psi
Pump type	Vane type; positive displacement
Reservoir pressure (maximum)	30 psi
Filtration	Three replaceable radial fin type elements
System control valve make	Husco
Valve model	3202-23
Number of spools	Two
Boom control spool	Manual; three position detent
Bucket control spool	Manual; two-way; spring offset
Pressure regulator	Adjustable; pilot operated