



Hough
Operator's Manual

HA-B

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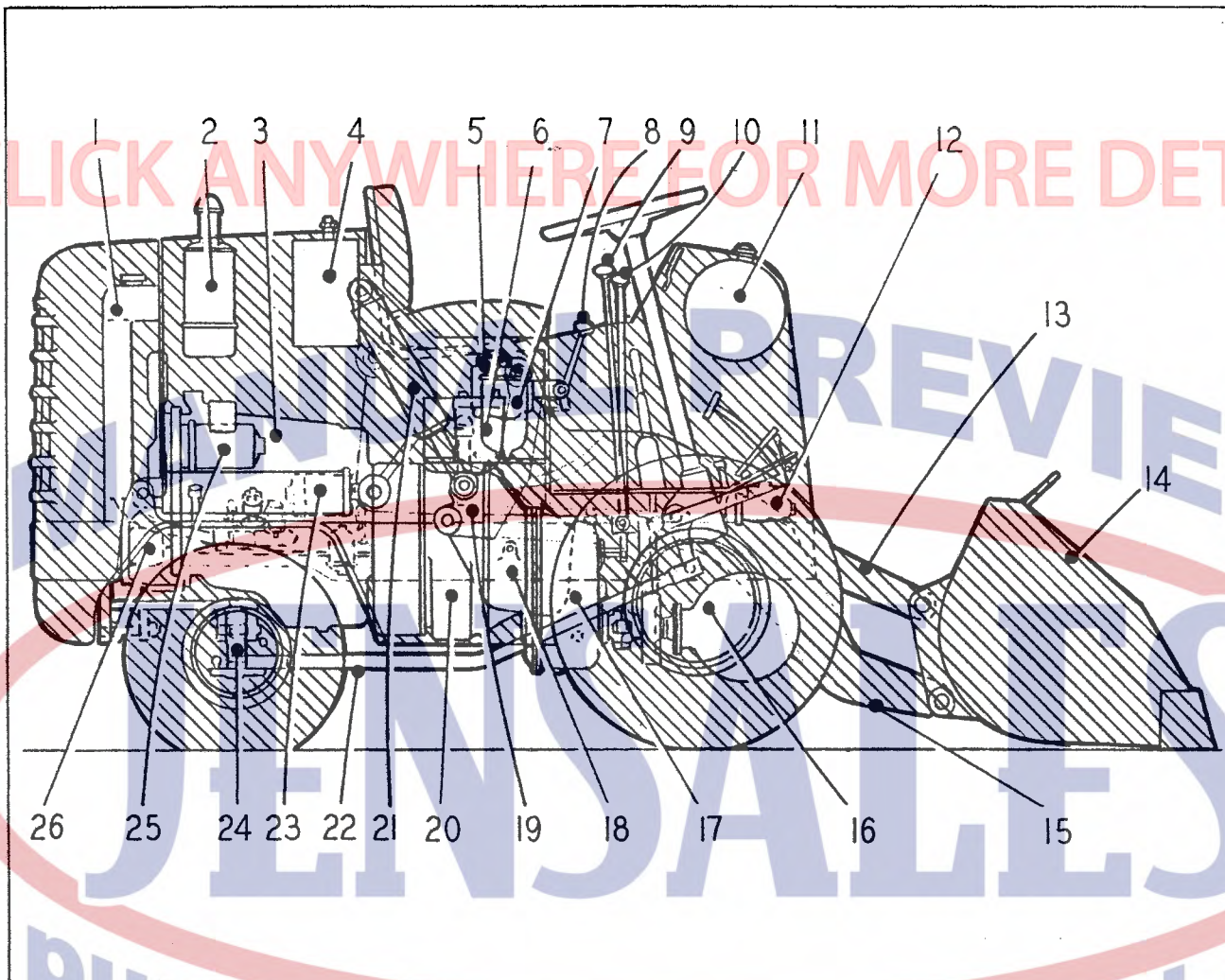
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INTRODUCTION



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| 1. Radiator | 14. Bucket assembly |
| 2. Air cleaner | 15. Boom assembly |
| 3. Engine | 16. Driving axle |
| 4. Hydraulic reservoir | 17. Transmission |
| 5. Hydraulic control valve | 18. Clutch |
| 6. Batteries | 19. Bellcrank assembly |
| 7. Oil filter, torque converter | 20. Torque converter |
| 8. Hydraulic control lever | 21. Bucket cylinder |
| 9. Transmission, direction shift, lever | 22. Steering drag link |
| 10. Transmission, speed range shift, lever | 23. Boom cylinder |
| 11. Fuel tank | 24. Steering axle |
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| 13. Breakout link | 26. Hydraulic pump |

Figure 1-ii. General arrangement

INTRODUCTION

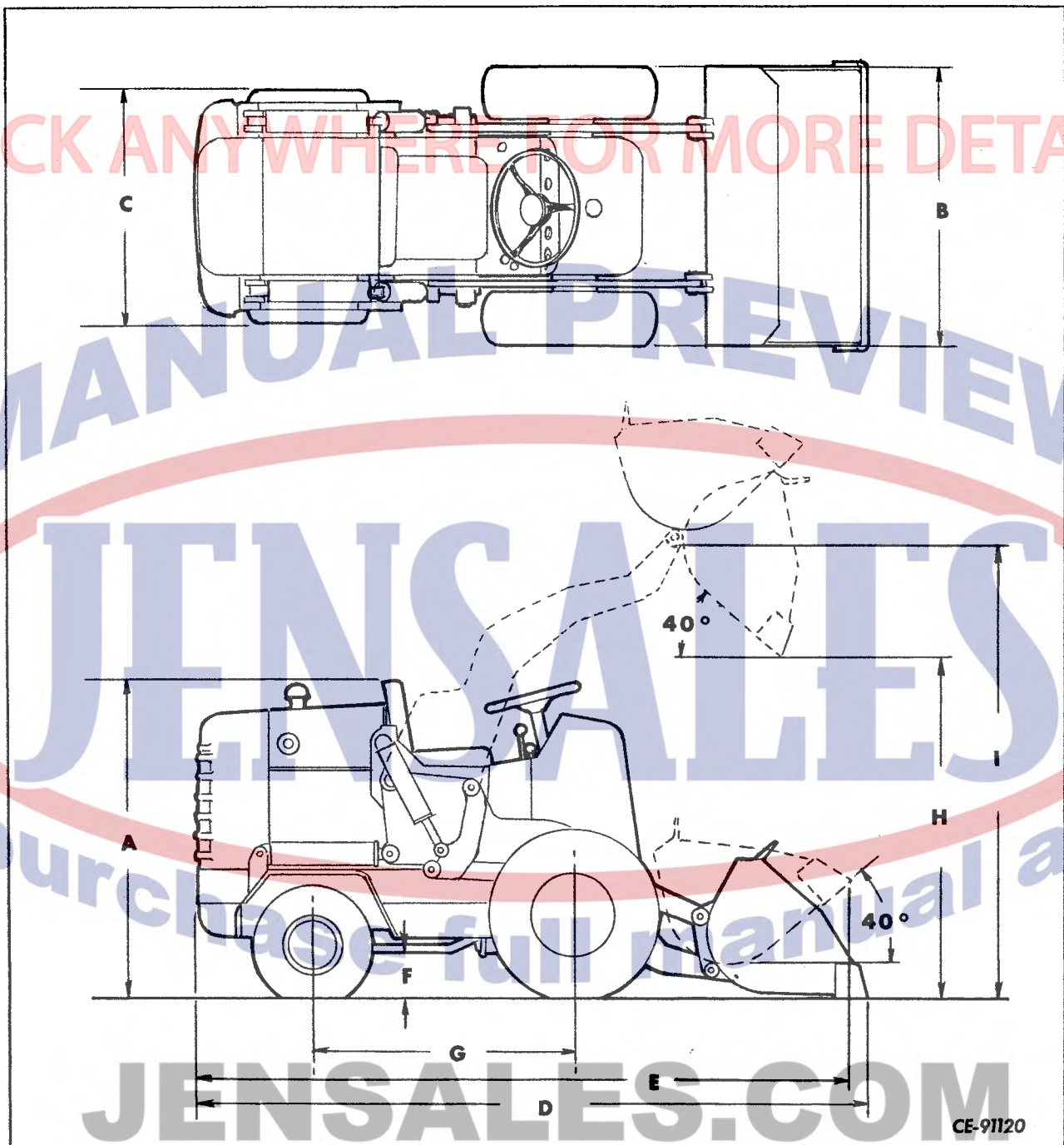


Figure 1-5a. Tractor exterior dimensions

GENERAL

A Height overall	58 in.	G Wheel base	48 in.
Height over average operator	79 in.	H Maximum dumping height	62.5 in.
B Width of front tires	51 in.	I Clearance under hinge	78 in.
C Width at rear tires	44 in.	Total rear axle oscillation	13 degrees
D Length bucket on ground	123 in.	Turning radius (outside rear corner of grille)	80 in.
E Length bucket at carry	120 in.		
F Ground clearance	5 in.		
		Gasoline	Diesel
		Weight over front axle	2745
		Weight over rear axle	2875
		Total weight	5820

INTRODUCTION

ENGINE, TORQUE CONVERTER AND TRANSMISSION.

GASOLINE ENGINE.

Make Waukesha
Model No. FC
Type Four-stroke cycle,
gasoline

Maximum horsepower
(2000 RPM) 33

Maximum torque
(1300 RPM) 96 ft. lb.

Number of cylinders 4

Bore 3.25 in.

Stroke 4.0 in.

Displacement 133 cu. in.

Weight, approximate 290 lb.

DIESEL ENGINE.

Make Waukesha
Model No. 180 DLC
Type Four stroke cycle,
diesel

Maximum horsepower
(2000 RPM) 38

Maximum torque
(1800 RPM) 102 ft. lb.

Number of cylinders 4

Bore 3.5 in.

Stroke 3.75 in.

Displacement 144 cu. in.

Weight approximate 475 lb.

TORQUE CONVERTER.

Make Borg and Beck

Type Single stage, two
phase

Stall ratio 2.57 to 1

Type filtration Replaceable radial
fin type element

TRANSMISSION.

Make Rockwell-Standard

Type Two speed, full
reversing

Max. forward and reverse
road speeds (MPH)

Speed Ranges	Forward	Reverse
1	3.4	5.6
2	7.4	12.0

Transmission initial fill 7 pt.

FINAL DRIVE.

FRONT AXLE.

Make Rockwell-Standard

First reduction Center section;
single pinion and
gear

First reduction ratio 6.7

Second reduction ratio 3.3

Total final drive reduction 22.1

REAR AXLE.

Make Hough Division, International
Harvester Co.

Type Steering

STANDARD TIRES.

Rear 6:00 x 9, 6 ply
rating

Front 7:50 x 16, 8 ply
rating

Tread width

Rear 36-1/4 in.

Front 41-1/4 in.

Tire inflation pressures will vary with type usage and surface footing on which this tractor is worked. Nominal inflation pressure for the standard rear tire is 65 pounds air pressure. Nominal inflation pressure for the standard front tire is 50 pounds air pressure. Refer to Off-The-Road Tire Maintenance Manual for guide lines for proper inflation pressure specifications.

SERVICE BRAKE SYSTEM.

System type Hydraulic

Master brake cylinder make Wagner Electric Co.

Wheel brake type Double adjustable
shoe, hydraulic

Parking brake type Mechanical "DLM"

Location Front axle input

STEERING SYSTEM.

Steering gear make Saginaw

Steering gear type Recirculating ball
bearing, worm
and nut type