



Michigan
Operator's Manual
175A

Wheel Loader
Gas & Diesel

Operator's Manual

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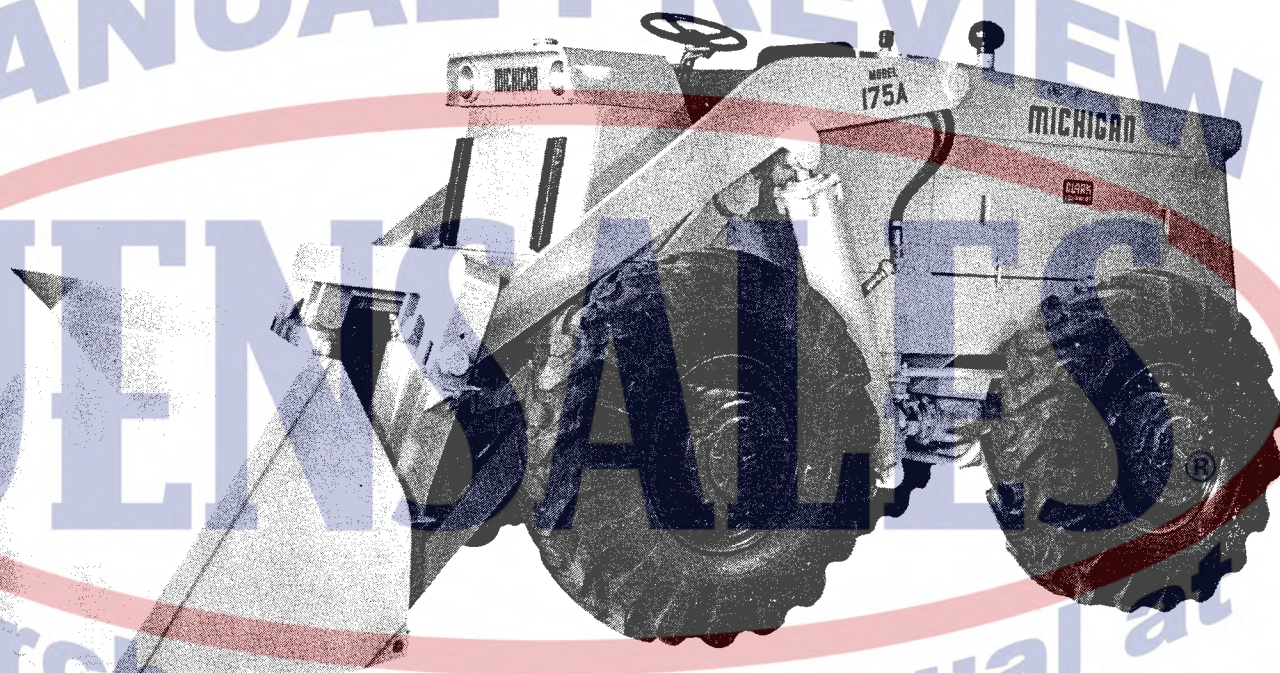
MIC-O-175A W/L

MICHIGAN TRACTOR SHOVEL

MODEL
175A

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MANUAL PREVIEW



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No. 1169

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ALWAYS GIVE SERIAL NUMBER OF MACHINE

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CLARK EQUIPMENT COMPANY
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MODEL 175A

SPECIFICATIONS & SERVICE DATA

ENGINE

	Gasoline	Diesel
Make	Waukesha	Waukesha
Model	135-GK	135-DKB
Max. horsepower	127	133
Governed RPM	2200	2200
Maximum torque	325 at 1200	326 at 1700
Bore and stroke	4 1/4" x 5"	4 1/4" x 5"
No. of cylinders	6	6
Displacement, cu. in.	426	426

POWER TRAIN

Torque converter: Industrial type 3.0 to 1 multiplication factor.

Transmission: Four speed full reversing type with selector for two or four wheel drive.

Axles: Spiral bevel ring gear and pinion with planetary reduction in wheels.

Travel Speeds	1st	2nd	3rd	4th
Forward, MPH	0-4	0-8	0-13.5	0-27
Reverse, MPH	0-4	0-8	0-13.5	0-27

HYDRAULIC SYSTEM

Boom rams: Two, double acting, 7" dia. Chromium plated piston rods. Chevron ring packing.

Bucket rams: Two, double acting, 7" dia. Chromium plated piston rods. Chevron ring packing.

Pump: Gear driven from engine crankshaft. 72 gallons per minute capacity at governed engine speed.

Valve: Two spool type with built-in adjustable relief valve.

Reservoir: Electric welded with baffles and hand hole for cleaning.

BRAKES

Service: Four wheel hydraulic. Vacuum power boosted.

Parking: Two wheel mechanical, connected to service brake shoes in front wheels.

BATTERY

Electrical System	12 Volt	24 Volt
Make of Battery	Exide	Exide
Number	2	4
Part Number	XF-19	XF-19

TIRES

Tires	16.00 x 24, 12 Ply
Tread	6' 8"
Air Pressure	45 lbs.

BUCKET

Capacity	2 1/4 cu. yd.
Lifting capacity, 0 mph	15,000 lbs.
Lifting Capacity, 4 mph	7,500 lbs.
Width outside	8' 1"
Maximum dumping height	8' 6"
Clearance under bucket hinge, max. ht.	11' 0"
Angle of dump, maximum height	56°
Angle of tip-back at carrying height of 3' 9" measured from ground to cutting edge	40°
Raising time	10.3 sec.
Lowering time	7 sec.
Dumping time	3 sec.
Reach from front of tire, dumping clearance 7' 0" dumping angle 50°	3' 8"
Reach from front of frame, dumping clearance 7' 0" dumping angle 50°	4' 10"
Digging depth	10"

TURNING RADIUS

Outside corner bucket	21' 1"
Outside front hub	19' 7"
Outside rear hub	21' 1"
Inside front hub	11' 1"

OVERALL MEASUREMENTS

Height (over air cleaner cap)	7' 10"
Height (to seat cushion)	6' 3"
Width (over tires)	8' 1 1/2"
Width (over hubs)	8' 5 5/8"
Length (bucket on ground)	19' 8"
Length (bucket at carry)	20' 2"
Wheelbase	7' 4"
Ground Clearance	16"
Height of drawbar	2' 10"

WEIGHT

	Gasoline	Diesel
Total	23,700 lbs.	24,100 lbs.

CAPACITIES

Engine Crankcase — Gas	14 1/2 qts.
Diesel	16 qts.
Torque Converter & Transmission:	
Oil Change refill	24 qts.

NOTE: If torque converter is removed and overhauled an additional 13 qts. or total of 37 qts. are required to fill entire system.

Front Drive Axle	28 qts.
Rear Drive Steering Axle (Differential)	11 qts.
Rear Drive Planetary Wheel Hubs	8 qts.
Hydraulic System	126 qts.
Master Cylinder	3 pts.
Air Cleaner	2 qts.
Fuel Tank	50 gal.
Radiator	32 qts.
Oil Separator Tank	1 1/2 qts.
Hydrovac Unit	2 oz.

OPERATOR'S COMPARTMENT & CONTROLS



FIGURE 1