

# Uni-Loader<sup>®</sup>

Case 50 net horsepower (37.3 kW) diesel  
Case coupler for fast implement attachment  
Control lock-out provides operator protection

# 1840



**case**<sup>®</sup>

1840

# 1840 Basic Unit

## Engine

Make and Model . . . . . Case 4-390  
 Type of Fuel . . . . . No. 2 diesel  
 No. of Cylinders . . . . . 4  
 Bore and Stroke . . . . . 4" x 4.72"  
 (102 mm x 120 mm)  
 Displacement . . . . . 239 in<sup>3</sup> (3917 cm<sup>3</sup>)  
 Compression Ratio . . . . . 17.0:1  
 Fuel Induction . . . . . Open chamber — direct injection

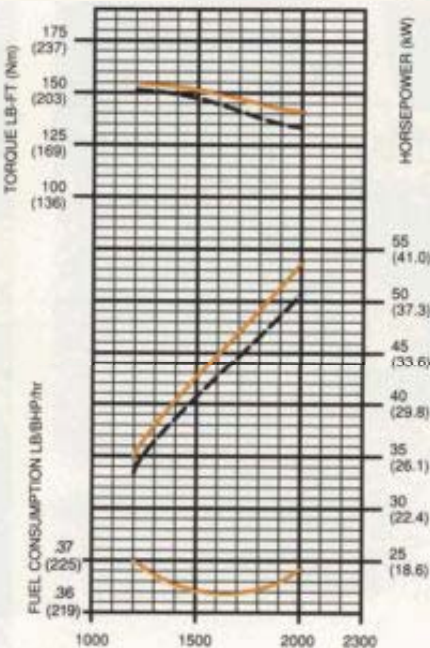
Fuel Supply . . . . . Injection pump  
 Air Cleaner . . . . . Dry type — replaceable dual element  
 Oil Filter . . . . . Replaceable spin-on cartridge, full-flow  
 Lubrication . . . . . Positive pressure with full flow filtering and internal cooling  
 Cooling System . . . . . Pressurized — 14 psi (96 kPa)

Horsepower  
 (1) Gross . . . . . 54 @ 2000 rpm (40.3 kW @ 2000 r/min)  
 (2) SAE Net . . . . . 50 @ 2000 rpm (37.3 kW @ 2000 r/min)  
 D.I.N. . . . . 52.8 @ 2000 rpm (38.8 kW @ 2000 r/min)

Max. Torque ft-lb  
 (1) Gross . . . . . 155 @ 1200 rpm (210 Nm @ 1200 r/min)  
 (2) SAE Net . . . . . 158 @ 1200 rpm (205 Nm @ 1200 r/min)

(1) Gross engine horsepower or torque at flywheel per SAE Standard J1349.  
 (2) Net engine horsepower or torque at flywheel per SAE Standard J1349<sup>a</sup>

## POWER CURVE



ENGINE SPEED-RPM (r/min)  
 ■ GROSS ENGINE PERFORMANCE  
 ■ NET ENGINE PERFORMANCE

## Electrical

System Voltage . . . . . 12-volts  
 Battery . . . . . 650 CCA  
 Alternator . . . . . 65 amp

## Steering

Independent — 360° counter rotation.  
 Steering, braking, forward and reverse movement controlled by operation of two hand levers.

## Power Train

Type . . . . . Hydrostatic with single-stage chain drive to all wheels.  
 Transmission . . . . . Tandem pump assembly consisting of two variable displacement pumps, gerotor type charge pump, gear type system pump, two fixed displacement motors.  
 Brakes . . . . . Mechanical parking latch

## Hydraulic System

Main relief setting . . . . . 2250 ± 100 psi @ 2000 rpm (15 513 ± 689 kPa @ 2000 r/min)  
 Lift cylinders (2) . . . . . 2.5" dia x 26.75" stroke, 1.5" rod (64 mm dia x 679 mm stroke, 38 mm rod)  
 Tilt cylinders (2) . . . . . 2.5" dia x 15.85" stroke, 1.25" rod (64 mm dia x 403 mm stroke, 32 mm rod)  
 Pump capacity . . . . . 15.3 gpm @ 2000 rpm @ 2250 psi (57.9 L/min) @ 2000 r/min @ 15 513 kPa  
 Filter equipment . . . . . 6-micron spin-on replaceable element with warning light.

## Service Capacities

	U.S. Gal.	Litres
Cooling system . . . . .	4.5	17.0
Fuel tank . . . . .	19.5	73.8
Engine oil		
w/filter . . . . .	11 qt	10.4
w/o filter . . . . .	10 qt	9.5
Hydraulic reservoir		
w/filter . . . . .	6.25	23.7
w/o filter . . . . .	6	22.7
Chain compartments (2) . . . . .	6 qt	5.7
per side		

## Weights

Shipping weight . . . . . 4873 lb (2210 kg)  
 Includes 4 gal. (15.2 L) fuel, no operator, no bucket, 7.00 x 15 tires, ROPS, and standard equipment  
 Operating weight . . . . . 5458 lb (2476 kg)  
 Includes full fuel, 175 lb (79 kg) operator, 54" (1372 mm) dirt bucket, 7.00 x 15 tires, ROPS, and standard equipment.



## Control Lock-Out

This system prevents activation of hydraulics by automatically shutting down hydraulic system and locking the parking latch. Standard equipment.

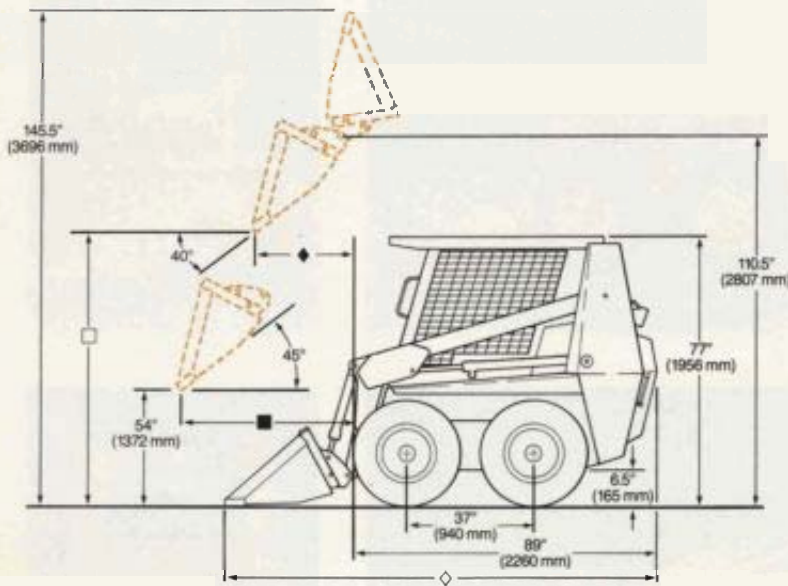


## Roll-Out ROPS

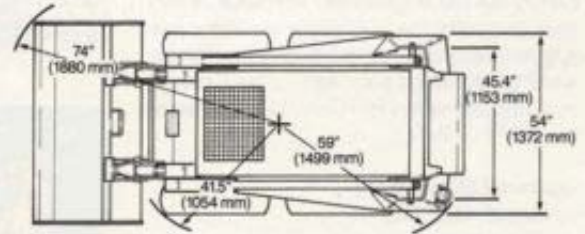
System provides quick, easy access to engine and power train for servicing. Requires only one-man, 15-minute procedure. Standard equipment.

# Operational Data

**Note:** Specifications taken with 54" (1372 mm) dirt bucket, 7.00 x 15 tires, ROPS, Case coupler and standard equipment, unless otherwise specified.



- Varies with bucket and coupler system, refer to Dump Height in chart below
- ◆ Varies with bucket and coupler system, refer to Dump Reach in chart below
- Varies with bucket and coupler system, refer to Dump Reach in chart below
- ◇ Varies with bucket and coupler system, refer to Overall Length in chart below



## Buckets

Type	Width		Struck Capacities		SAE Heaped Capacities		Weight		Dump □ Height		Dump ◆ Reach		Dump ■ Reach		Dump Angle deg	Overall ◇ Length	
	in	mm	ft. <sup>3</sup>	m <sup>3</sup>	ft. <sup>3</sup>	m <sup>3</sup>	lb	kg	in	mm	in	mm	in	mm		in	mm
Dirt	54	1372	7.9	0.22	10.1	0.29	343	156	84	2134	22	559	31.3	795	40°	125	3175
Dirt	63	1600	9.1	0.26	11.8	0.33	374	170	84	2134	22	559	31.3	795	40°	125	3175
*Utility	54	1372	13.7	0.39	17.0	0.48	428	194	82.3	2090	29.3	744	36.0	914	37°	132.3	3360
*Utility	63	1600	15.9	0.45	19.8	0.56	462	210	82.3	2090	29.3	744	36.0	914	37°	132.3	3360
*Utility	73	1854	18.5	0.52	23.1	0.65	496	255	82.3	2090	29.3	744	36.0	914	37°	132.3	3360

\*Recommended rear c/wt option

## Performance Specifications

- Tipping load —
  - SAE rated . . . . . 2700 lb (1225 kg)
- Rated operating load . . . 1350 lb (612 kg)
- Raising time with
  - rated load in bucket . . . . . 4.7 sec.
- Lowering time bucket empty . . . . . 2.6 sec.
- Rollback time . . . . . 1.5 sec.
- Breakout force —
  - lift cylinders . . . . . 2773 lbf (12 335 N)
  - tilt cylinders . . . . . 3066 lbf (13 638 N)
- Lift capacity
  - to max height . . . . . 2630 lb (1193 kg)
- Travel speed (forward and reverse) . . . . . 6.2 mph (10 km/h)
- Bucket roll back . . . . . 29°



### Case Coupler

A new quick-change implement attachment system. Allows operator to disengage, attach and lock on all 1835C and 1840 Case coupler attachments as well as the new 1845C (4 slot) attachments (upper right).

# Equipment Data

## Standard Equipment

1350 lb (612 kg) rated operating load with double-acting Case cylinders, less attachments, with controls and hydraulics • Case 4-390 water-cooled diesel engine • Hydrostatic transmission with chain drive to all wheels • Spin-on hydraulic filter • 7.00 x 15 nylon Chevron tires • Case coupler • 12-volt battery • Spark arresting muffler • Dry type air cleaner • Hand throttle • Mechanical parking latch • Hourmeter • Fuel gauge • ROPS mounted warning light monitoring system for hydraulic filter, alternator, transmission temperature, engine oil pressure, air cleaner restriction, battery voltage, engine water temperature and seat belt reminder • Audible alarm for low engine oil pressure, transmission temperature, water temperature, alternator, battery voltage and seat belt reminder • Drawbar • Antifreeze to -20°F (-29°C).

## Optional Equipment

(on basic machine)

7.00 x 15 Steel Cap 6 PR tires • 10.00 x 16.5 Sure Grip (flotation) 6 PR tires • 6.50 x 16 non-pneumatic tires • Lights • Auxiliary hydraulics • Horn • Deluxe seat • Cold start aid (ether) • Counterweights • Lift hooks • Back up alarm • Block heater • Case pinned coupler • Foot controls • Self leveling bucket\*.

\* Available mid-1990

## Optional Equipment (attachments)

54" (1372 mm) and 63" (1600 mm) dirt buckets • 54" (1372 mm) and 63" (1600 mm) and 73" (1854 mm) utility buckets • Manure fork • Hydraulic grapple • Pallet fork with brick guard • 94" (2388 mm) backhoe-pinned coupler • 109" (2769 mm) backhoe-Case coupler.



## Manure Fork

Number of tines . . . . . 11  
 Width between each tine . . . 4.2" (107 mm)  
 Overall width of tines . . . 54.3" (1379 mm)  
 Overall width of attachment . . . . . **54.8"**  
 (1392 mm)  
 Length of tine . . . . . 27" (686 mm)  
 Hydraulic grapple available for manure fork.

## Pallet Fork (with Brick Guard)

Maximum width of forks . . . 40" (1016 mm)  
 Minimum width of forks . . . 12" (305 mm)  
 Length of fork . . . . . 42" (1067 mm)  
 Overall width of attachment . . . . . **48.5"**  
 (1232 mm)

## Sold and serviced by:

**Note:** All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

### Important

J I Case Company reserves the right to change these specifications without notice and without incurring any obligation relating to such changes. Unit illustrated is equipped with non-standard equipment

**J I Case**

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