



case

W14H Loader



83 SAE NET FLYWHEEL HORSEPOWER

Case 336 c.i.d. diesel engine

FULL POWERSHIFT TRANSMISSION

Four speeds forward, two reverse

SINGLE LEVER SHIFT CONTROL

Modulated transmission clutching for fast, smooth, on the go directional changes

TWIN TURBINE TORQUE CONVERTER

Automatically shifts to meet changing load demands for optimum cycling productivity

IN-LINE LOADER LINKAGE

All linkage mounted in line with loader lift arms for good visibility to bucket work area

**LONG 100" WHEELBASE PLUS
40° ARTICULATION**

Combines operational stability and balance with excellent turning radius

CENTER-PIVOT STEER

Allows rear and front tires to track at all times

Unit shown is equipped with non-standard items.

J I Case

A Tenneco Company

700 State Street Racine, WI 53404 U.S.A.



LOADER SPECIFICATIONS

ENGINE

Make and model..... Case A336BD
 Fuel diesel, No. 1 or 2
 Maximum rated horsepower
 (1) Gross..... 93 @ 2200 rpm
 (69.4 kW @ 2200 r/min)
 (2) SAE net 83 @ 2200 rpm
 (61.9 kW @ 2200 r/min)
 Torque, maximum
 At 500' (152 m) altitude,
 85° F (29° C) 236 lbs-ft @ 1550 rpm
 (32.6 kg-m @ 1550 r/min)
 Cylinders, number (valve-in-head) 4
 Bore and stroke 4.625" × 5"
 (117 mm × 127 mm)
 Displacement..... 336 in³ (5.1 lit)
 Starting 24 volt electric
 Air cleaner (with service indicator) two element, dry type
 Oil filter..... full-flow type
 (1) Manufacturer's rating of maximum engine horsepower at flywheel when
 equipped with oil and water pumps. Fuel set at maximum quantity for this
 application. Corrected to sea level 29.92" (760 mm) Hg and 60° F (15° C)
 dry air.
 (2) SAE net flywheel horsepower of engine as applied to this vehicle when
 equipped with operating accessories including oil and water pumps,
 alternator, air cleaner, fan and muffler. Corrected to 500' (152 m) altitude
 with .38" (9.5 mm) Hg vapor pressure 29.38" (746 mm) Hg observed
 barometer and 85°F(29° C) per SAE J816a specifications.

TRAVEL SPEEDS (with 15.5 × 25 tires)

	1st		2nd		3rd		4th	
	mph	km/h	mph	km/h	mph	km/h	mph	km/h
Forward	3.2	5.3	7.0	11.3	11.0	17.7	25.0	40.2
Reverse	4.0	6.4	9.0	14.5				

TRANSMISSION

Four speeds forward, two speeds reverse, powershift. Single lever control. Modulated clutching. Transmission shifts automatically from first to second and third to fourth.

TORQUE CONVERTER

Twin turbine integral with transmission 5.44 to 1 stall ratio.

AXLES (front and rear)

Front axle fixed. Rear axle oscillates up or down 12°, 24° total oscillation. One wheel can drop 14" (356 mm) with all wheels remaining on the ground for maximum traction. Axle shafts may be removed without disturbing the wheels or planetaries.

DIFFERENTIALS

Torque proportioning differentials, front and rear for maximum traction.

BRAKES

Air over hydraulic, 4-wheel internal-expanding, or caliper disc. Air actuated mechanical parking brake. Automatically sets if air pressure drops below effective operating level. Red warning light indicates when parking brake engaged

STEERING

Center pivot articulated design with hydrostatic power steering. Front and rear wheels always track.
 Steering angle—each direction from center 40°
 Steering pump 21 gpm @ 2200 rpm @ 2000 psi
 (79.5 lit/min @ 2200 r/min @ 141 kg/cm²)
 Steering cylinders 2.5" dia. × 14.1" stroke
 (63.5 mm dia. × 358 mm stroke)
 Turning circle outside tires 29'8" (9042 mm)

LOADER HYDRAULIC SYSTEM

Cylinders: Double-acting with hardened and chrome-plated rods to increase strength and resist corrosion.

Lift (2) 4.5" dia. × 25.38" stroke
 (114 mm dia. × 645 mm stroke)
 Bucket (2)..... 3" dia. × 30.5" stroke
 (76 mm dia. × 775 mm stroke)

Pump: Dual-stage, gear-type, engine-driven. 34 gpm @ 2200 rpm @ 2200 psi (129 lit/min @ 2200 r/min @ 155 kg/cm²).

Control valve: Open-center, series parallel circuit.

Hydraulic lines: Steel tubing with brazed fittings and wire-braid, high-pressure hose with swaged fittings.

Reservoir: Positive pressurized, inlet filtered hydraulic oil system sealed for dirt exclusion. Full time micronic filter furnishes only clean oil to all components of the hydraulic system.

Hydraulic cycle time:

(Rated load in bucket)	Seconds
Raise	5.5
Lower	4.0
Dump.....	1.7
Total.....	11.2

SERVICE CAPACITIES

	U.S. Gals.	Liters
Fuel tank.....	38	144
Hydraulic system	21	80
Transmission and torque converter	7.5	28.4
Engine crankcase.....	11 qt	10.4
Differentials and final drives		
Front	11 qt	10.4
Rear	11 qt	10.4
Cooling system.....	7	27

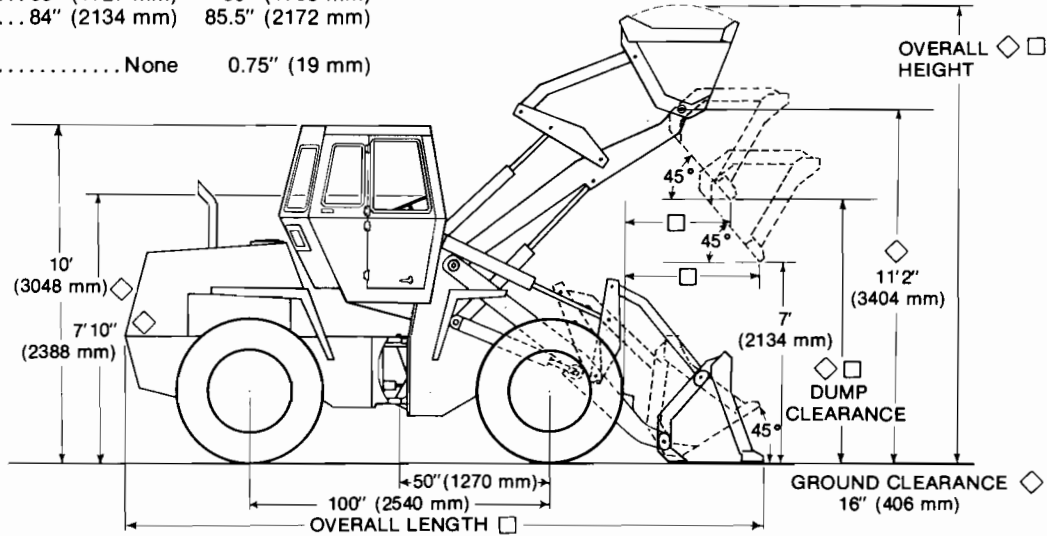
NOTE: Specifications herein are in accordance with all Society of Automotive Engineers' standards (SAE). The applicable Loader Standard is SAE J732C.



OPERATING DIMENSIONS

- ◇ Varies with tire size.
- Varies with bucket size, refer to performance specifications.

	15.5×25, L2 tires	16.9×24, R4 tires
Tread	68" (1727 mm)	69" (1753 mm)
Width over tires	84" (2134 mm)	85.5" (2172 mm)
Increase in vertical dimensions.....	None	0.75" (19 mm)



PERFORMANCE SPECIFICATIONS

BUCKET TYPE - Capacity SAE Rated (nominally heaped)	GENERAL PURPOSE 1.50 yd ³ (1.15 m ³)	GENERAL PURPOSE 1.75 yd ³ (1.34 m ³)	4-IN-1 1.25 yd ³ (.97 m ³)
Dump Clearance @ 45° Dump — Full Height ◇	8'10.5" (2705 mm)	8'10.5" (2705 mm)	9'1.5" (2781 mm)
Bucket Reach @ Full Height & 45° Dump	2'8" (813 mm)	2'8" (813 mm)	3'0" (914 mm)
Bucket Reach @ 7' Clearance & 45° Dump	4'1.5" (1258 mm)	4'1.5" (1258 mm)	5'0" (1524 mm)
Loader Clearance Circle — Bucket in Carry Position	32'8" (9957 mm)	33'5" (10 185 mm)	32'8" (9957 mm)
Overall Length	18'4" (5588 mm)	18'4" (5588 mm)	18'5" (5613 mm)
Overall Height ◇	14'6" (4420 mm)	14'6" (4420 mm)	16'5.5" (5016 mm)
SAE Breakout Force, lbs	12361 (5607 kg)	12361 (5607 kg)	12058 (5470 kg)
SAE Tipping Load, Straight, lbs *	11819 (5361 kg)	11795 (5350 kg)	12279 (5570 kg)
35° Turn	10750 (4876 kg)	10729 (4867 kg)	11169 (5066 kg)
40° Turn	10436 (4734 kg)	10415 (4724 kg)	10843 (4918 kg)
SAE Operating Weight, lbs*	15686 (7115 kg)	15706 (7124 kg)	16583 (7522 kg)

*For select items, add to or deduct from the machine operating weight and tipping loads as given in the chart below. All dimensions and specifications based upon unit with 15.5 × 25, L2 tires, ROPS cab, fenders with operator.

Selected Items	Operating Weight Adjustments		Tipping Load Adjustments					
	lbs	kg	Straight		35° Turn		40° Turn	
W/ROPS Canopy	-530	-240	- 379	-172	- 379	-172	- 379	-172
15.5 × 25, L2 w/75% CaCl ₂	+900	+408	+1289	+585	+1172	+532	+1138	+516
16.9 × 24, R4 w/o ballast	-380	-172	- 272	-123	- 247	-112	- 240	-109
16.9 × 24, R4 w/75% CaCl ₂	+780	+354	+1389	+630	+1264	+573	+1227	+556
W/O Fenders	-191	- 87	- 152	- 69	- 138	- 63	- 134	- 61

EQUIPMENT ATTACHMENTS

BUCKETS

Type	Capacity		Cutting Edge Width			
	SAE Rated		Struck			
	yd ³	m ³	yd ³	m ³	inches	mm
General Purpose	1.50	1.15	1.29	1.0	86	2184
General Purpose	1.75	1.34	1.45	1.5	96	2438
4-in-1	1.25	.97	.97	.74	84	2134

4-in-1 SPECIFICATIONS

- A— Forward dumping clearance
@ 45° discharge ◇ 9'1.5" (2781 mm)
 - B— Bottom dumping clearance
@ 45° discharge ◇ 11'0" (3353 mm)
 - C— Hinge pin height ◇ 11'2" (3404 mm)
 - D— Overall height ◇ 16'5.5" (5016 mm)
 - E— Forward dumping reach
@ 45° discharge ◇ 3'0" (914 mm)
 - F— Digging depth ◇ 2'2" (965 mm)
 - G— Bucket opening 3'8" (1118 mm)
 - Reach @ 45° dump angle, 7' (2130 mm)
clearance ◇ 5'0" (1524 mm)
 - Tilt back @ ground level 45°
 - Closure force, clamp to cutting edge 9000 lb (4082 kg)
 - Weight 1340 lb (608 kg)
- NOTE:** SAE code adhered to, 15.5 × 25 L2, 12PR tires used.
◇ Varies with tire size—refer to performance specifications.

STANDARD EQUIPMENT

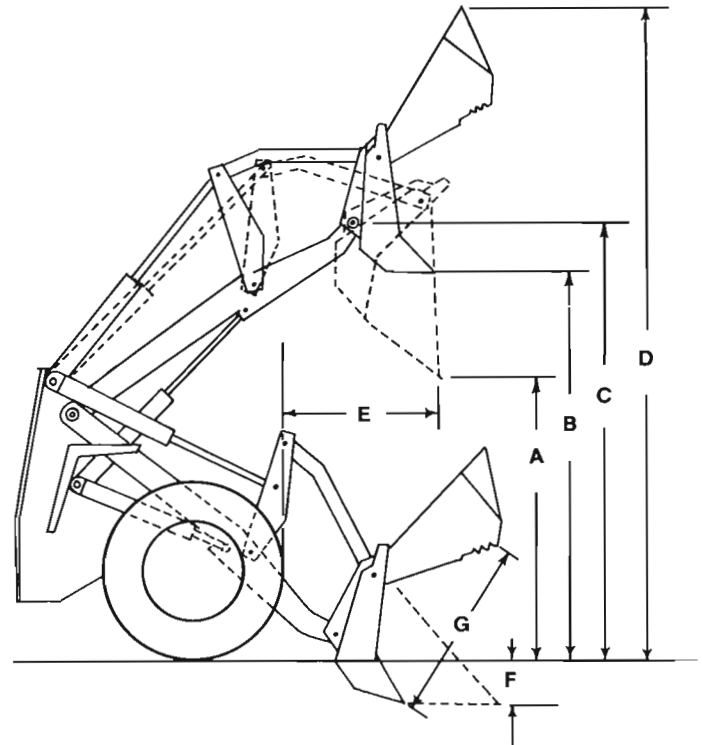
ROPS canopy with seat belt. Alternator with voltage regulator. Batteries. 24 volt start. Front and rear flood lights. Tail-light and stop light. Pusher fan. Two-element, dry-type air cleaner. Air horn. Powershift transmission. Air-over hydraulic brakes. Parking brake. Alternator warning light, engine oil pressure warning light, engine water temperature gauge, converter oil temperature gauge, clutch pressure warning light, air pressure gauge, fuel gauge, parking brake light and tachometer. Drawbar.

OPTIONAL EQUIPMENT

ROPS cab with air pressurization and sound suppression, seat belt accompanies ROPS. Buckets. Log forks. Pallet forks. Power train guard. Engine side panels. Fenders. Heater and defroster. Cold weather starting equipment. Lockup kit. Tire inflation kit. Turn signals. Additional driving lights. Automatic, adjustable bucket height kickout. Automatic return-to-dig mechanism. Spark arresting muffler. Air conditioning. Suspension seat. Back-up alarm. Auxiliary steering. Rotating beacon.

TIRES (front and rear)

- 15.5 × 25, 10 or 12 PR, traction-type, L2
- 15.5 × 25, 12 PR, rock-type, L3
- 16.9 × 24, 10 PR, traction-type, R4



NOTE: All specifications are stated in accordance with ICED Definitions or 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.

Sold and serviced by: