

# SKID STEER 1840/1845C



# Agile, Versatile and Reliable... the perfect power source

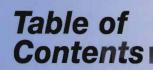
Over the years, the Case 1840 and 1845C Uni-Loader® skid steers have earned a reputation as dependable, hardworking power sources. Day in and day out these sturdy units tackle the toughest assignments, thanks to their impressive horsepower, load capacity, hydrostatic drive and hydraulic systems, and structural integrity. In addition, they are equipped with low-effort, highly responsive controls and can be rapidly transformed for a variety of jobs that used to require countless laborious man-hours.

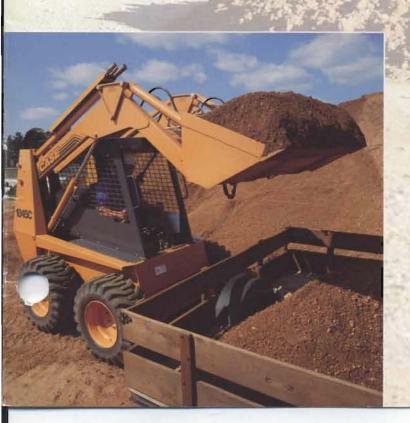
The 1840 and 1845C are ideally suited for numerous applications — compatibility with a long list of quick-coupling attachments makes them attractive to a wide range of markets. These versatile skid steers can be snowplows, material handlers, mini-excavators, sweepers and more, while their agility and compact stature allow them to easily maneuver in tight areas unsuitable for larger equipment.

These labor and time-saving skid steers will consistently prove their worth to any production-oriented business — from building contractors to grain companies, foundries to livestock farms, quarries to landscapers.









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## Engine

The Case 4-390 high-torque diesel engine is a perfect match for the demands made on the 1840 and 1845C Uni-Loader skid steers. It's designed tough and has proven itself through years of use in heavy Case construction equipment like crawler dozers and loader/backhoes, and agricultural equipment like the big Case IH tractors.

Engine life — Large cubic inch displacement utilizing a low percentage of its potential horsepower means the 4-390 will last a long time. Powerful yet efficient, it runs at a low engine speed, so the job gets done with less engine stress.

Operating efficiency — The 4-390 has a horsepower advantage that gives the 1840 and 1845C impressive horsepower to weight ratios. High horsepower provides top-notch performance for exceptional productivity.

Inexpensive to operate and maintain — Integrated design incorporates components into the engine block. Fewer moving parts mean reduced heat and wear, and there are fewer parts to replace. Standard oil change is required only every 250 hours.

Positive lubrication — Integral oil pump and oil cooler with piston oil-cooling nozzles keep the engine lubricated, eliminating engine hot spots. Deep sump maintains lubricating ability on slopes.

Quick response — High-torque rise, with maximum torque occurring at a low 1200 rpm, means the 4-390 has the power to get work done.

Cold starts — Single key ignition provides fast starts every time, including outstanding cold starts with no aids, although ether cold start and a block heater are available.

Performance and durability — One of the best warranties in the industry backs the performance and durability of this outstanding engine.



= 5-1-4	1840	1845C
Model	Case 4-390 diesel	Case 4-390 diesel
Cylinders	4	4
Bore/Stroke	4" x 4.72" (102 mm x 120 mm) 4" x 4	1.72" (102 mm x 120 mm)
Displacement	239 in <sup>3</sup> (3.92 L)	239 in <sup>3</sup> (3.92 L)
Power rating*		
Gross	54 hp (40 kW) @ 2000 rpm 6	0 hp (45 kW) @ 2100 rpm
Net	50 hp (37 kW) @ 2000 rpm 5	6 hp (42 kW) @ 2100 rpm
Max. torque	159 lb•ft (216 N•m) @ 1200 rpm 169 lb	•ft (229 N•m) @ 1300 rpm
*Per SAF J1349 and	J1995	



### Hydrostatic Ground Drive

The hydrostatic ground drive on both the 1840 and 1845C supplies smooth steering and precise, low-effort control along with low maintenance.

Power to the wheels — A low percentage of available engine power is required by the equipment hydraulics, the majority is left in reserve for the hydrostatic drive.

Direct-drive transmission pumps — Two variable displacement piston pumps deliver oil to corresponding hydrostatic motors for independent control of each side. Pumps are mounted in tandem and are driven directly off the engine flywheel; no drive belt adjustment ever needed.

Quick and easy external adjustment for proper tension enhances chain longevity on both models.

Counter-rotation — Steering is easy and responsive with two hand controls. These units can spot-turn within their own length; great in tight spots.

Low effort, high productivity — Servo-controlled hydrostatic transmission supplies smooth operation. Precision hand controls are operator-friendly and non-fatiguing.



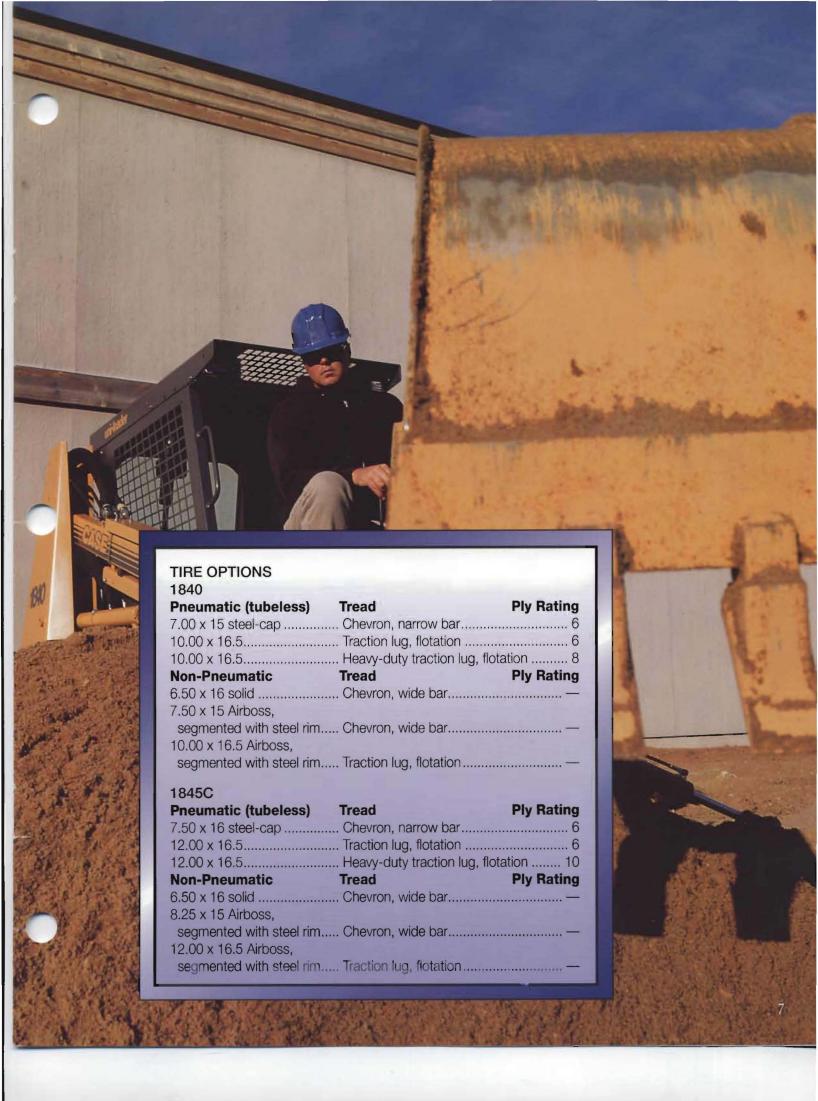
#### **AXLE DRIVE CHAINS**

1840...... No. 80 HT 1845C..... No. 80 HT Two hydrostatic motors — Mounted on the left and right-side chain tanks, motors smoothly convert the hydraulic energy from the pumps into mechanical torque at the motor output shaft.

Chain drive design — On the 1840, each motor powers a tandem sprocket that drives two continuous chains, one each for the front and the rear. The 1845C motor drives a 2-stage chain reduction for greater torque multiplication.

Infinitely variable speeds — Discover smooth speed transitions within a range of 0-6.2 mph (0-10 km/h) on the 1840 and 0-6.0 mph (0-9.7 km/h) on the 1845C.

Dynamic braking — Moving the hand controls to the neutral position brings the unit to an even stop. Engage the parking brake by raising the seat bar.



### Operator Environment

Responsive controls and technically advanced instrumentation are combined with great visibility and operator comfort in this efficient work space.

Operator ease — Grab rails and steps assist when stepping in or out of the unit, and no obstacles block the operator's path. A comfortable seat can be adjusted to suit the operator and a two-inch seat belt is standard; a three-inch is an option.

Maximum comfort — A deluxe suspension seat option is available.

Adjust for legroom, seat tension according to the operator's weight, and backrest position.

Operator restraint —
The seat bar is an additional restraining device and

armrest. When in the raised position, the seat bar automatically engages the parking brake and locks the loader lift arms and bucket controls.

Precision
"hands-only"
controls —
Speed,
direction and
loader
functions are
all controlled
by two servoassisted loweffort hand

levers. Hand controls are very operator-friendly and leave plenty of room for the operator's feet. Footoperated loader controls are available as an option.

Optional auxiliary hydraulic controls — A mechanical foot pedal supplies smooth feathering for precision applications, or continuous hydraulic flow to the attachments as required.

Excellent visibility — Sturdy ROPS/FOPS provides protection, yet allows a wide-open view to the attachment and surrounding work areas.

Engine air flow — Both engine cooling air and exhaust are directed away from the operator's area for cleaner, more comfortable working conditions.

Noise suppression — For a quieter environment, standard equipment includes reduced engine speed with less fan noise, quietrunning servo controls, and a headliner in the ROPS. A "Low Noise" package including a thick heat shield with padded mountings over the engine, a removable rear window and floor mats is optional.

Advanced monitoring systems — LED warning lights and audible alarms advise the operator of machine functions. A "systems normal" light, a fuel gauge that flashes when on reserve, and an hourmeter are also featured.

LED warning lights include:
Hydraulic filter
Alternator output
Fuel level
Battery voltage
Engine oil pressure
Air cleaner restriction
Engine coolant temperature
Transmission oil temperature

Seat belt

Audible alarms include:
Engine oil pressure
Engine coolant temperature
Battery voltage
Alternator output
Hydraulic oil temperature
3-second seat belt alarm







## **Hydraulics**

Loader and attachment work are handled with ease as a result of the large hydraulic capacity and excellent cooling capacity on the 1840 and 1845C.



Direct-drive hydraulic pump — Mounted directly to the engine crankshaft, this high-capacity equipment pump responds quickly to loader and attachment demands. Drive mechanism requires no adjustment or servicing.

Big reservoir — A steel hydraulic reservoir is located in the right-hand upright. Large volume means oil cycles through the system at a low frequency, resulting in cooler oil and component temperatures to provide optimum system performance.

Efficient cooling — Large capacity hydraulic oil cooler is mounted to the rear service door to utilize the circulation of the engine fan air flow for maximum heat dissipation.

Quick daily maintenance — Hydraulic reservoir service fill and sight gauge, as well as the hydraulic filter, are easily accessed inside the lockable rear swing-out service door.

Two systems — Oil for the hydraulic system is kept separate from oil for the chains and sprockets. Oil stays cleaner so it lasts longer, and maintenance and overall operating costs are reduced.

Auxiliary hydraulics — Located on the loader arms allowing for quick coupling of attachments, auxiliary hydraulics increase the skid steer's versatility.

High-flow hydraulics — This 30 gpm (114 L/min) option augments the auxiliary hydraulics for use with high-flow attachments such as cold planers, augers and snowblowers. Choose between single or dual direction for one or two-way power and speed. This high-flow package comes with flat-face couplers designed to reduce pressure drops and improve operating efficiencies. Couplers are mounted on the front right side of the loader frame and are easy to clean, with little chance of oil contamination, and there's no oil loss when coupling or disconnecting.

#### HYDRAULIC SYSTEM

Filtration...... 6-micron spin-on replaceable element w/warning light

Pump.... Rear-mounted direct drive

Capacity:

1840 ...... 15.3 gpm @ 2000 rpm @ 2300 psi (57.9 L/min @ 2000 r/min @15 900 kPa) 1845C .... 16.0 gpm @ 2100 rpm @ 2300 psi

(60.6 L/min @ 2100 r/min @15 900 kPa)

Main Relief Setting: 1840 & 1845C

2300 psi @ 120° F (15 900 kPa @ 49° C)

<b>HYDRAULIC</b>	CYLINDERS		
1840	Bore	Stroke	Rod
Lift (2)	2.50" (64 mm)	26.75" (679 mm)	1.50" (38 mm)
Tilt (2)	2.50" (64 mm)	15.85" (403 mm)	1.25" (32 mm)
1845C			
Lift (2)	2.50" (64 mm)	29.50" (749 mm)	1.50" (38 mm)
Tilt (2)	2.50" (64 mm)	21.25" (540 mm)	1.25" (32 mm)





#### ■ Frame/Loader

Rigorous daily usage demands a machine with great structural integrity. Both the 1840 and 1845C have it — in the form of a heavy-duty frame with sturdy uprights and loader arms. Strength and durability — Unitized construction of the frame, uprights and loader arms absorb heavy shocks.

Steel reservoirs — For added durability, fuel and hydraulic oil tanks are designed as integral parts of the loader uprights.

Stability — You'll have a distinct advantage when loading trucks or working on slopes due to the skid steer's excellent weight distribution.

Loader arms — Engineered for fast cycle times while achieving the maximum in force, capacity and clearance: offset design allows a wider operator's compartment on the 1840.

Superior breakout force — Two heavy-duty lift cylinders work in tandem with dual bucket cylinders

mounted on the loader arms for fast bucket filling.

4-point support — Dual bucket cylinders and two loader stop blocks mounted to the front of the main frame help spread digging forces evenly throughout the unit. Bucket corner load stress is reduced, so the loader arms and quick coupler last a long time.

1845C mechanical self-leveling — Geometry of the linkages results in automatic leveling at every position, up and down, so materials stay in the bucket.

1840 optional hydraulic selfleveling — When raising the loader, pressure and flow sensors direct flow to the bucket cylinders, keeping the attachment level. Operator can concentrate on maneuvering and lifting tasks for fast cycle times.

Case coupler — Quick interchange of attachments increases both versatility and productivity. Case coupler provides easy mounting of all Case and compatible allied attachments.

1845C optional hydraulic coupler — The operator can remain seated while mounting or disengaging attachments; control is located next to the throttle lever. This coupler permits interchange with attachments of various makes.





LOADER PERFORMANCE SPECIFICATIONS		
	1840*	1845C**
Tipping Capacity, SAE rating	2,700 lb (1225 kg)	3,445 lb (1563 kg)
Lift Capacity to Maximum Height	2,630 lb (1193 kg)	3,135 lb (1422 kg)
Operating Load, SAE rating	1,350 lb (612 kg)	1,700 lb (771 kg)
Breakout force		
Tilt cylinder	3,066 lbf (13 638 N)	4,690 lbf (20 862 N)
Lift cylinder	2,773 lbf (12 335 N)	3,450 lbf (15 346 N)
Cycle times w/rated loads	FEW BUT	
Raising time	4.7 sec	4.3 sec
Lowering time (power down)		2.9 sec
Rollback time	1.5 sec	1.4 sec
Dump time	2.3 sec	2.0 sec
* 1840 w/full fuel, 175 lb (80 kg) operator, 54" (1372 mm) dirt bud	cket, 7.00 x 15.6PR tires, ROPS,	standard equipment and Case coupler.

<sup>\*\* 1845</sup>C w/full fuel, 175 lb (80 kg) operator, 63" (1600 mm) dirt bucket, 7.50 x 16 6PR tires, ROPS, standard equipment and Case coupler.



Having the right bucket for the job can save time and boost productivity, so Case offers a full line-up. These sturdy buckets are built to last and have excellent fill and cleanout characteristics.

BUCKET SELECTION	N		THE RESIDENCE OF THE PARTY OF T	
1840		SAE Struck		
Туре	Width	Capacity	Capacity	Weight
Dirt 54"	(1372 mm)	7.9 ft <sup>3</sup> (0.22 m <sup>3</sup> )	10.1 ft <sup>3</sup> (0.28 m <sup>3</sup> )	343 lb (155 kg)
Dirt 63"	(1600 mm)	9.1 ft <sup>3</sup> (0.26 m <sup>3</sup> )	11.8 ft <sup>3</sup> (0.34 m <sup>3</sup> )	374 lb (170 kg)
Utility 54"	(1372 mm)	13.7 ft <sup>3</sup> (0.39 m <sup>3</sup> )	17.0 ft <sup>3</sup> (0.48 m <sup>3</sup> )	428 lb (194 kg)
Utility 63"	(1600 mm)	15.9 ft <sup>3</sup> (0.45 m <sup>3</sup> )	19.8 ft <sup>3</sup> (0.56 m <sup>3</sup> )	462 lb (209 kg)
Utility 73"	(1854 mm)	18.5 ft <sup>3</sup> (0.52 m <sup>3</sup> )	23.1 ft <sup>3</sup> (0.65 m <sup>3</sup> )	496 lb (225 kg)
1845C		STATE OF THE PARTY		
		9.1 ft <sup>3</sup> (0.26 m <sup>3</sup> )		
Dirt 73"	(1854 mm)	10.6 ft <sup>3</sup> (0.30 m <sup>3</sup> )	13.9 ft <sup>3</sup> (0.39 m <sup>3</sup> )	410 lb (186 kg)
Utility 63"	(1600 mm)	15.9 ft <sup>3</sup> (0.45 m <sup>3</sup> )	19.8 ft <sup>3</sup> (0.56 m <sup>3</sup> )	462 lb (209 kg)
Utility 73"	(1854 mm)	18.5 ft <sup>3</sup> (0.52 m <sup>3</sup> )	23.1 ft <sup>3</sup> (0.65 m <sup>3</sup> )	496 lb (225 kg)
Light material 80"	(2032 mm)	25.4 ft <sup>3</sup> (0.72 m <sup>3</sup> )	31.6 ft <sup>3</sup> (0.89 m <sup>3</sup> )	588 lb (267 kg)
Per SAE J742			1 10	

#### 1840/1845C Backhoes

You can increase the versatility of your Uni-Loader® skid steer by adding a Case backhoe.
These quick-mounting attachments are easy to operate with precise, two-lever control and can be equipped with a variety of buckets.

D100XR for the 1840 — Long boom and dipper provide extra reach for maximum dig depths in light and medium-duty applications. The smaller, powerful D100 backhoe is also available.

D125 for the 1845C — This beefy backhoe has the capacity for heavyduty digging, while its over-center transport position smooths out travel. D100 backhoe can also be used on the 1845C.

## BACKHOE BUCKETS D100/D100XR/125

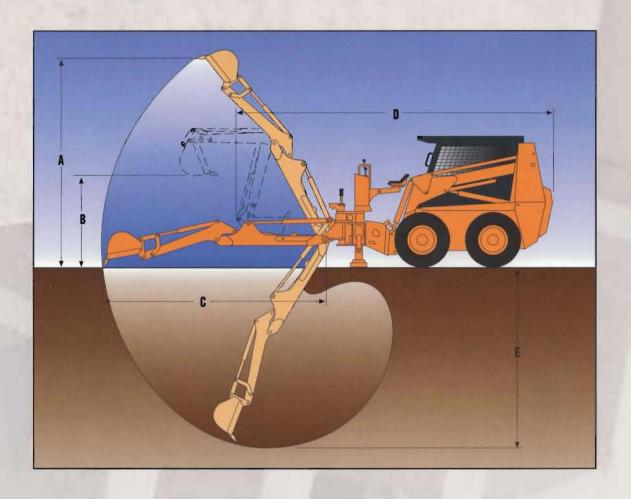
TRENCHING

IIIEIAOIIIIAG				
Width	SAE	Struck	SAE Heaped	Weight
13" (330 mm)	1.13 ft <sup>3</sup>	(0.032 m <sup>3</sup> )	1.42 ft <sup>3</sup> (0.040 m <sup>3</sup> )	<b>Weight</b> 98 lb (45 kg)
				116 lb (53 kg)
24" (610 mm)	2.29 ft <sup>3</sup>	(0.065 m <sup>3</sup> )	2.88 ft3 (0.082 m3)	138 lb (63 kg)
D100/D100XR				
BELLHOLE				
				80 lb (36 kg)
18" (457 mm)	1.60 ft <sup>3</sup>	(0.045 m <sup>3</sup> )	1.96 ft <sup>3</sup> (0.056 m <sup>3</sup> )	107 lb (49 kg)

Per SAE J296



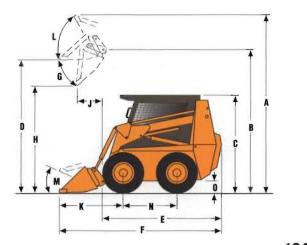
## Performance Data



Backhoe	D100	D100XR	D125
A. Overall operating height	8'3.5" (2.53 m)	10'3.5" (3.14 m)	11'8.6" (3.57 m)
B. Loading height	3'11" (1.19 m)	4'2" (1.27 m)	5'5.8" (1.67 m)
C. Digging radius	9'6" (2.90 m)	11'4.8" (3.48 m)	11'8.7" (3.57 m)
D. Transport length	13'11" (4.24 m)	14'3" (4.34 m)	14'1.6" (4.31 m)
E. Digging depth	7′10″ (2.39 m)	9'2.9" (2.82 m)	9'0.8" (2.76 m)
Stabilizer spread – working			
fold-down	7'7.2" (2.32 m)	7'7.2" (2.32 m)	10'4.6" (3.17 m)
		3'6.4" (1.08 m)	
transport			
fold-down	5'2.5" (1.59 m)	5'2.5" (1.59 m)	5'3.1" (1.60 m)
		4'4.8" (1.34 m)	
Digging force – bucket			
Digging force – dipper			
Backhoe weight w/o bucket	1,135 lb (515 kg)	1,311 lb (595 kg)	1,640 lb* (744 kg)
and the second second		, 3,	1,720 lb** (780 kg)
Note: Specifications taken w/24" (610 n	nm) trenching bucket w/teeth.		

\*with vertical stabilizers \*\*with fold-down stabilizers

# **Dimensions\*/Operating Weights**



	1840	1845C
A. Overall operating height	145.5" (3696 mm)	145.5" (3696 mm)
B. Height to bucket hinge pin	110.5" (2807 mm)	116.75" (2965 mm)
C. Height to top of ROPS	77.0" (1956 mm)	80.25" (2038 mm)
D. Height to bucket bottom w/bucket level,		
loader arm fully raised	105.0" (2667 mm)	111.25" (2826 mm)
E. Overall length w/o attachment		
(w/Case coupler)	96.5" (2451 mm)	101.25" (2572 mm)
F. Overall length w/bucket on ground		
G. Dump angle at maximum height	42.5°	41°
H. Dump height, loader arm at maximum height	84" (2134 mm)	89.5" (2273 mm)
	@ 40°	@ 41°
J. Reach, fully raised		
	@ 40°	@ 41°
K. Reach attachment on ground	49.7" (1262 mm)	51.5" (1308 mm)
L. Maximum rollback, attachment at full height	100°	62°
M. Maximum rollback, attachment on ground	29°	30°
N. Wheelbase	37" (940 mm)	40.5" (1028 mm)
O. Ground clearance	6.5" (165 mm)	8" (203 mm)
P. Clearance circle front, less bucket	44" (1118 mm)	
Q. Clearance circle front, w/attachment		
Dirt buckets - 54" (1372 mm)	73" (1854 mm)	NA
63" (1600 mm)	74.8" (1900 mm)	
	NA	
R. Clearance circle rear	59" (1499 mm)	61" (1549 mm)
S. Overall width – w/7.00 x 15 tires	54" (1372 mm)	NA
w/7.50 x 16 tires	NA	63" (1600 mm)
w/10.00 x 16.5 tires	59.9" (1521 mm)	NA
w/12.00 x 16 tires	NA	
T. Tread width,		
	45.7" (1161 mm)	
w/7.50 x 16 tires	NA	54" (1372 mm)
	48.9" (1242 mm)	
w/12.00 x 16 tires	NA	59.8" (1519 mm)
Operating weight**	5,458 lb (2 475 kg)	6,085 lb (2 760 kg)

<sup>\*</sup> All dimensions taken with dirt buckets.

<sup>\*\*</sup> Both units have full fuel, 175 lb (80 kg) operator, ROPS, standard equipment. 1840 w/54" (1372 mm) dirt bucket &  $7.00 \times 15$  6PR tires; 1845C w/63" (1600 mm) dirt bucket &  $7.50 \times 16$  6PR tires.

### Serviceability

Minimal downtime and reliable performance result in high-end productivity. The superior service and maintenance features on the 1840 and 1845C make this a reality.

Service ports — Service elements are divided between the rear door uprights, and under the floor plate, the lift arms and the seat to prevent crowding and make servicing easy.

Easy access — Fuel fill, oil check and fill, air filter, and battery require no disassembly for servicing.

Swing-out door — Rear door opens with a latch, no bolts to remove, so maintenance time is minimal. Numerous checks can easily be performed via this swing-out door.

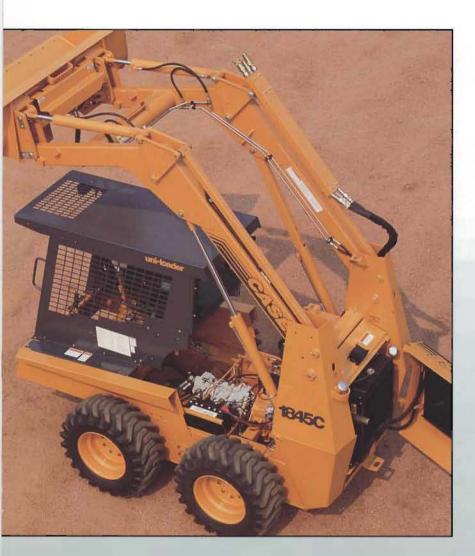
- Daily engine checks and minor engine service.
- Hydraulic fill sight gauge and the hydraulic filter.
- Radiator is vertically-mounted behind the door, and the oil cooler is vertically-mounted in the door. Dirt washes downward and out.

Seat removal — simply take out the seat for access to: Control linkages – both hydraulic loader and propulsion. Hydrostatic pump. Hose connections – propulsion system. Throttle control friction adjustment.

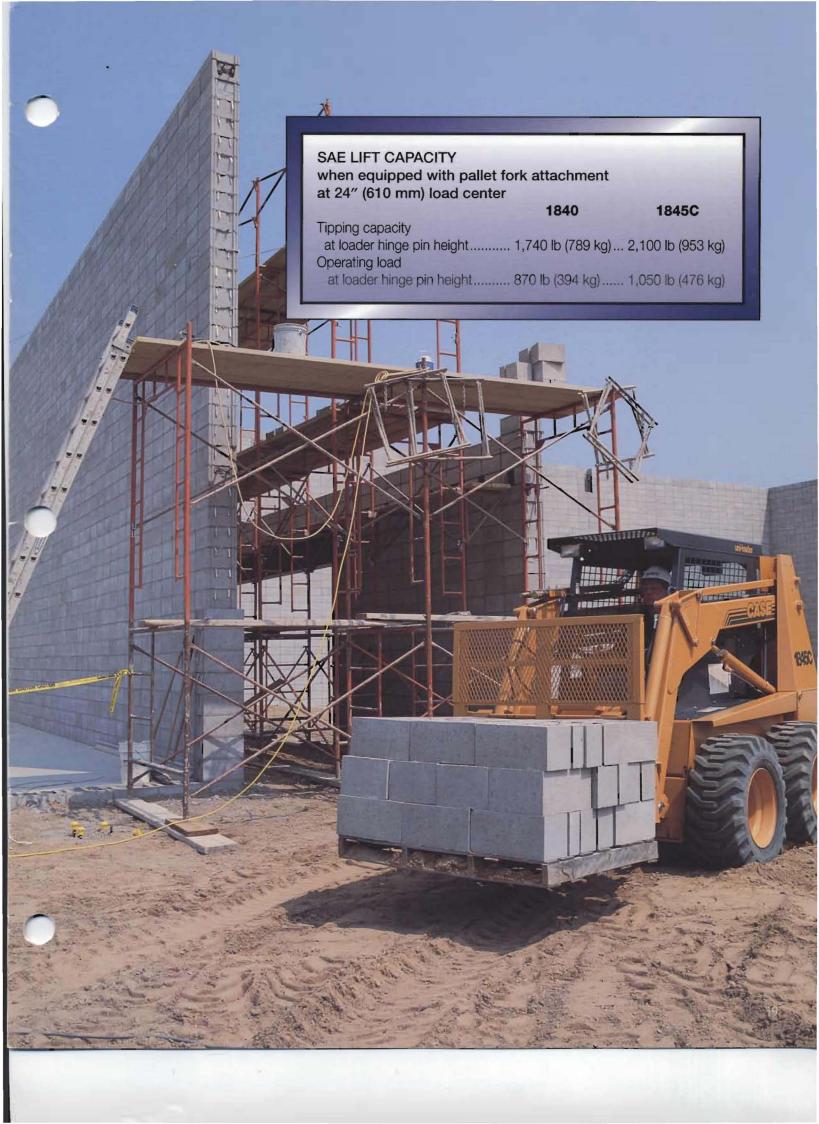
Wide-open — ROPS and operator's station unfasten and slide forward to expose the engine, hydraulic hoses, hydrostatic pumps and motors. Loader arms are held up and out of the way, permitting work from either side.

External chain adjustment — Checking and adjusting chain tension is accomplished through chain tank openings. Easy periodic servicing means you'll get the most life out of each chain.

Reservoirs — Steel hydraulic and fuel reservoirs are integral parts of the loader uprights for durability — better cooling with no plastic tanks to check or leak.



SERVICE CAPACITIES		
	1840	1845C
Cooling system	. 4.5 gal (17.0 L)	4.5 gal (17.0 L)
Fuel tank	19.5 gal (73.8 L)	21.5 gal (81.4 L)
Hydraulic system (total)	10.5 gal (39.8 L)	10.5 gal (39.8 L)
Chain compartments (per side)	60 at (571)	50 at (171)



### PRODUCT SUPPORT

#### COMMITTED TO EVERY PART

At Case we are as proud of our service support as we are of our products. Your Case dealer has skilled technicians to handle any service requirement with advanced diagnostics and the latest service techniques.

Case parts support includes well-stocked shelves and a computerized network of parts inventories that crosses the continent. In minutes, we can locate the part you need at its closest location.

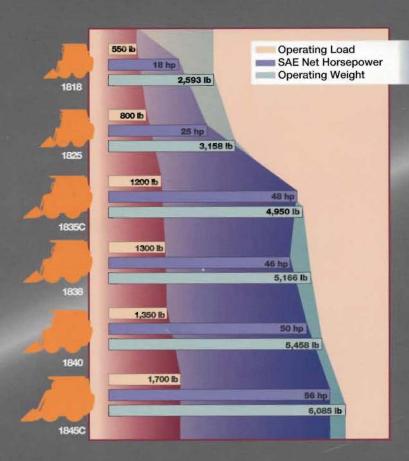
See your Case dealer for prompt service and parts backup to minimize downtime problems.





#### **SAFETY NEVER HURTS!**

Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.



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

**IMPORTANT:** Case Corporation reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Units shown may be equipped with non-standard equipment.

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