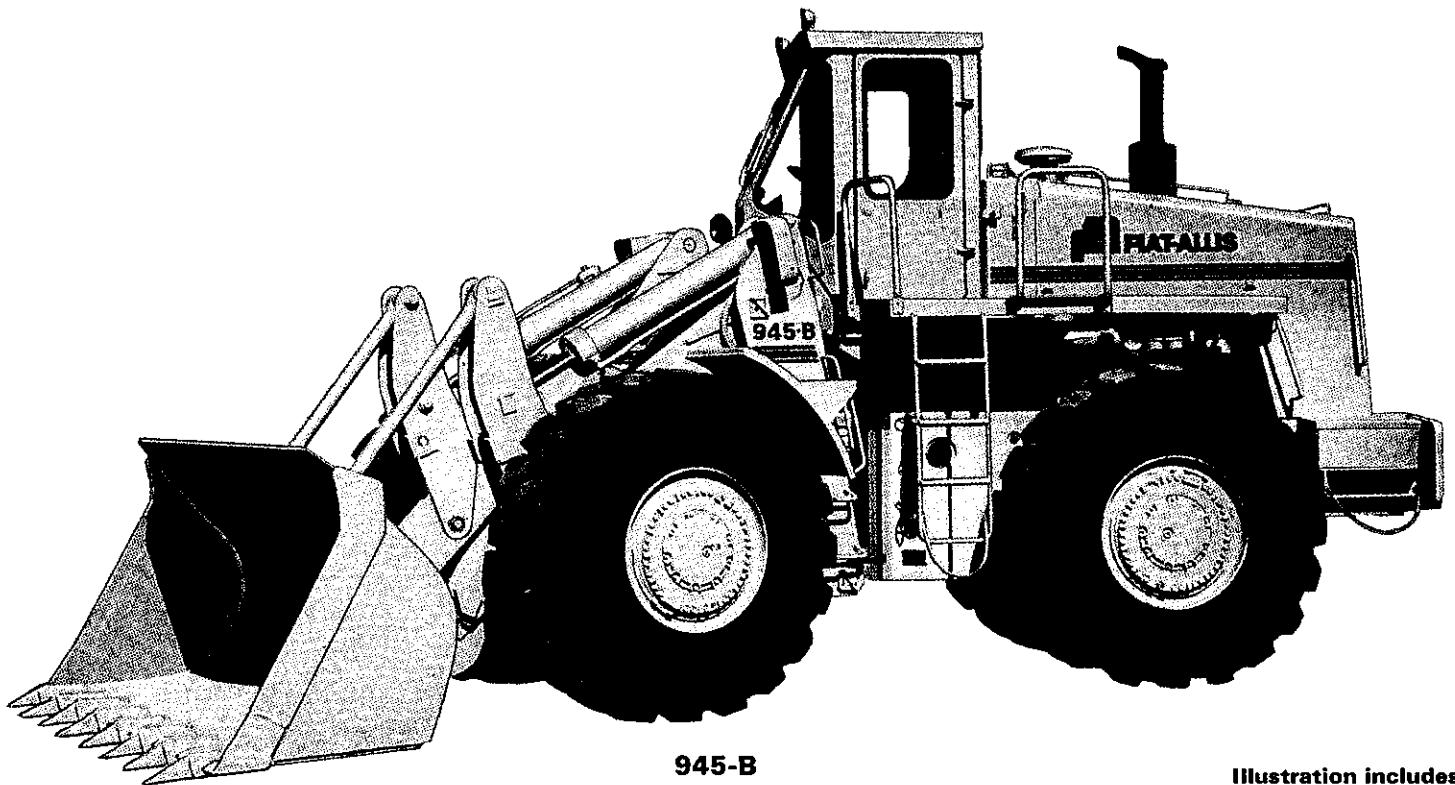


945-B



945-B
6.5 cu. yd. (5,0 m³) Wheel Loader

Illustration includes
optional equipment.

CAPACITY

- Full turn tipping load — 37,998 lbs. (17235 kg)
- Breakout force — 45,200 lbs. (20502 kg)
- Operating weight — 65,300 lbs. (29619 kg)

STABILITY

- Long wheelbase, 148" (3759 mm)
- Wide tread, 96" (2438 mm)

SPEED

- SOF-SHIFT* transmission, smooth, fast directional changes
- Twin-turbine torque converter, automatic crowd
- Single lever transmission control

POWER

- Allis-Chalmers 25000 Mark II diesel engine
- Flywheel horsepower — 335
- Kilowatts — 250

LOADING ABILITY

- Ground level loading and carry
- Powerful, responsive hydraulics
- Automatic bucket positioner and boom lift kickouts
- Pilot-operated control valves
- Torque proportioning differentials

SERVICEABILITY

- Easy ground level access to:
 - engine and transmission dipsticks
 - batteries
 - fuel tank

DEPENDABILITY

- In-line straddle mounted linkage
- Rugged self-aligning pivot bearings
- Total Quality Assurance reliability

MANEUVERABILITY

- 90° articulation, 20 3/4" (6170 mm) turning radius
- Demand steering for quick response at all operating speeds
- Wheel track

Flywheel Horsepower*	335
Kilowatts**	250
Make and Model	Allis-Chalmers 25000 Mark II
Type	Diesel, 4 cycle, turbocharged, intercooled, direct injection

*Net flywheel horsepower available at the flywheel of the vehicle engine under SAE standard conditions of 85°F (29°C) and 29.38" (746 mm) hg. after deductions have been made for fan, alternator, compressor, lube oil pump, water pump, air cleaner, fuel pump, and muffler. Engine will maintain specified flywheel horsepower up to 5000 ft. (1520 m) altitude.

TypeTwin-turbine
Torque multiplication.....4.7 to 1



Type Power shift planetary

SOF-SHIFT* transmission permits full power directional shift changes in low ranges for fast cycle time. Shift from 1st to 2nd and 3rd to 4th is automatic.



Planetary reduction at wheel end. Axle shafts removable independent of wheel and planetary. Torque proportioning differentials. Axle housing integral to loader frame.

Rear axle oscillation 22°

Inches vertical travel 18" (465 mm)



Service — 4 wheel, full air actuated, dual system.
Transmission neutralizer actuated by left pedal.
Emergency — independent brake valves.
Parking — spring applied, air released drum brake on drive line, dash-mounted control operates spring actuator.



Type	Tubeless
Standard	29.5 — 29 (22PR) L4
Optional	29.5 — 29 (22PR) L3, L5 29.5 — 29 (28PR) L3, L4, L5 29.5 — 29 (34PR) L3



Voltage 24V
Standard alternator 30 amp
Battery amp/hour rating 220
System protected by circuit breakers



Type	Sealed system
Cylinders	Double acting
Lift (2)	8.5" x 38.0" (216 x 965 mm)
Dump (2)	6.5" x 50.0" (165 x 1270 mm)
Pump	Gear type tandem-mounted
Capacity @ governed rpm ..	135.0 gpm (511.0 lit/min)
Control valve	Two spool, pilot-operated
Relief valve pressure	2250 psi (158 kg/cm ²)
Lift time	7.7 sec.
Lower time	4.9 sec.
Dump time	3.6 sec.



Type Hydraulic power*
Cylinders Two, double acting
Bore and stroke 4.5" x 21.25" (114 x 540 mm)
Pump Gear type
Capacity @ governed rpm 55.0 gpm (208 lit/min)
*With demand valve interconnection to loader hydraulic
system, and mechanical follow-up linkage.



ENGINE	
Lube oil	Full flow 25 micron
Fuel	Full flow 5 micron
Air cleaner	Dry type w/safety element
Coolant	Filter conditioner
TRANSMISSION — TORQUE CONVERTER	
Oil	Full flow 10 micron
HYDRAULIC	
Oil	Full flow 10 micron
	Full flow magnetic



ENGINE	
Lube oil	11.75 U.S. gal. (44,5 lit)
Coolant	25.0 U.S. gal. (94,6 lit)
Fuel tank	160.0 U.S. gal. (605,6 lit)
TRANSMISSION	14.0 U.S. gal. (53,0 lit)
HYDRAULIC	144.0 U.S. gal. (545,1)
AXLES	60.0 U.S. gal. (227,1)

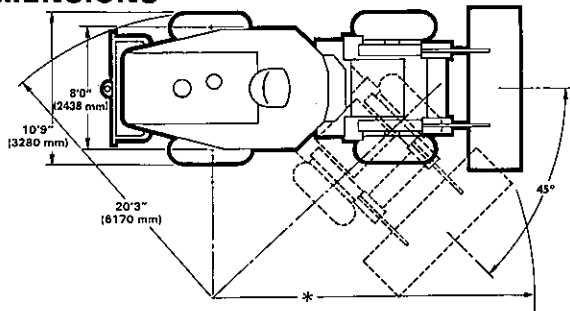


● Air filter service indicator ● Air horn ● Anti-freeze
● Automatic bucket positioner ● Automatic boom lift
kickout ● Back-up alarm ● Brake system alcohol injector
● Brake system moisture ejector ● ROPS cab with tinted
safety glass, front windshield wiper, sliding side windows
and headliner ● Drawbar ● Pusher fan ● Fan-finger guard
● Front and rear fenders ● Hydraulic oil cooler ● Ladders,
dual access ● Transmission neutralizer ● Muffler ● Ad-
justable bucket seat ● Seatbelt

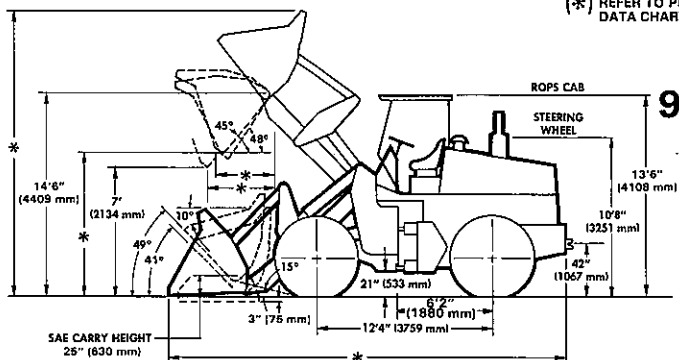
- **Gauges:** — air pressure, low air pressure warning light and buzzer, ammeter, converter oil temperature, engine oil pressure, engine coolant temperature, fuel level dipstick, hourmeter, hydraulic oil level sight gauge, transmission oil pressure.

- **Lighting** — headlights, front floodlights, rear floodlights, rear stop and tail lights, dashlights

DIMENSIONS



(*) REFER TO PERFORMANCE DATA CHART BELOW



PERFORMANCE DATA

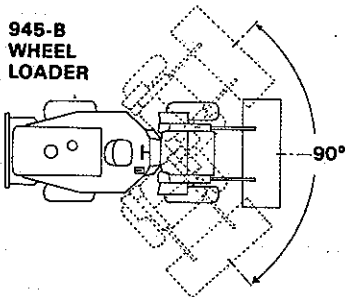
	General Purpose	General Purpose	Spade Nose Rock
BUCKET CAPACITY RATED	6.0 cu. yd. 4,6 m ³	6.5 cu. yd. 5,0 m ³	6.0 cu.yd. 4,6 m ³
STRUCK CAPACITY	5.0 cu. yd. 3,82 m ³	5.5 cu. yd. 4,20 m ³	5.0 cu. yd. 3,82 m ³
BUCKET WEIGHT	5,500 lbs. 2495 kg	5,710 lbs. 2590 kg	6,170 lbs. 2799 kg
BUCKET WIDTH	135" 3429 mm	135" 3429 mm	135" 3429 mm
DUMP HEIGHT @ 45°	10'10" 3308 mm	10'8" 3259 mm	10'7" 3215 mm
REACH @ 45°	48" 1232 mm	50" 1281 mm	52" 1318 mm
REACH @ 45° 7 Ft.	77" 1966 mm	79" 2005 mm	80" 2033 mm
OVERALL LENGTH (BUCKET ON GROUND)	27'9" 8454 mm	28'0" 8524 mm	28'2" 8581 mm
OVERALL HEIGHT (BUCKET RAISED)	18'9" 5719 mm	19'0" 5788 mm	18'11" 5774 mm
CLEARANCE CIRCLE (BUCKET @ CARRY)	45'0" 13722 mm	45'2" 13760 mm	45'3" 13794 mm
BREAKOUT FORCE	48,000 lbs. 21772 kg	45,200 lbs. 20502 kg	43,200 lbs. 19595 kg
TIPPING LOAD 0°	46,550 lbs. 21114 kg	45,832 lbs. 20788 kg	45,332 lbs. 20562 kg
35°	41,639 lbs. 18887 kg	40,967 lbs. 18582 kg	40,473 lbs. 18358 kg
40°	40,214 lbs. 18240 kg	39,556 lbs. 17942 kg	39,063 lbs. 17718 kg
45°	38,642 lbs. 17527 kg	37,998 lbs. 17235 kg	37,507 lbs. 17012 kg
OPERATING WEIGHT	65,090 lbs. 29523 kg	65,300 lbs. 29619 kg	65,765 lbs. 29829 kg

OPTIONAL EQUIPMENT PERFORMANCE DATA	WEIGHT	TIPPING LOAD			
		0°	35°	40°	45°
29.5 x 29 (28) L3 Tires	- 840 lbs. - 381 kg	- 706 lbs. - 320 kg	- 646 lbs. - 293 kg	- 629 lbs. - 285 kg	- 609 lbs. - 276 kg
29.5 x 29 (28) L3 Tires with 75% CaCl ₂ in rear	+3710 lbs. +1682 kg	+6079 lbs. +2757 kg	+5404 lbs. +2451 kg	+5209 lbs. +2363 kg	+4997 lbs. +2266 kg
29.5 x 29 (22) L4 Tires with 75% CaCl ₂ in rear	+4550 lbs. +2063 kg	+6785 lbs. +3077 kg	+6050 lbs. +2744 kg	+5838 lbs. +2648 kg	+5606 lbs. +2542 kg
29.5 x 29 (22) L5 Tires	+ 960 lbs. + 435 kg	+1033 lbs. + 468 kg	+1023 lbs. + 464 kg	+1018 lbs. + 462 kg	+1012 lbs. + 459 kg
29.5 x 29 (22) L5 Tires with 75% CaCl ₂ in rear	+5510 lbs. +2498 kg	+7818 lbs. +3545 kg	+7073 lbs. +3208 kg	+6856 lbs. +3110 kg	+6618 lbs. +3001 kg
COUNTERWEIGHT (not to be used with CaCl ₂)	+3000 lbs. +1360 kg	+6748 lbs. +3061 kg	+5717 lbs. +2593 kg	+5423 lbs. +2460 kg	+5102 lbs. +2314 kg
ROPS CANOPY (in lieu of ROPS cab)	- 490 lbs. - 222 kg	- 405 lbs. - 183 kg	- 381 lbs. - 173 kg	- 374 lbs. - 170 kg	- 367 lbs. - 166 kg
LESS ROPS CAB	-1410 lbs. - 639 kg	-1214 lbs. - 550 kg	-1131 lbs. - 513 kg	-1107 lbs. - 502 kg	-1081 lbs. - 490 kg

NOTE: All performance data and specifications are based on the standard unit equipped with 29.5 x 29 (22PR) L4 tires, ROPS cab and bucket as indicated. All data is obtained in compliance with the latest SAE Recommended Practices including J732c and J742b.

DISTINCTIVE FEATURES

**945-B
WHEEL
LOADER**



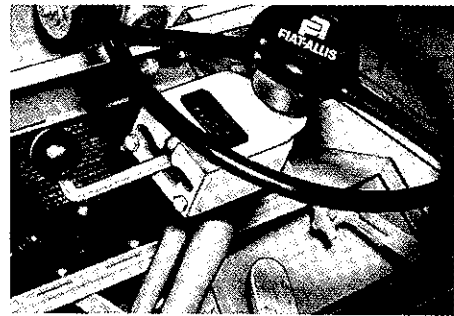
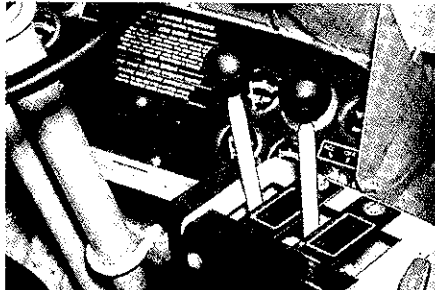
45° ARTICULATION

Articulated steering 45° left and right provides full 90° swing.

45° articulation gives the 945-B a short turning radius and excellent maneuverability for fast cycle time. Demand steering system provides fast steering response both at high and low engine speeds.

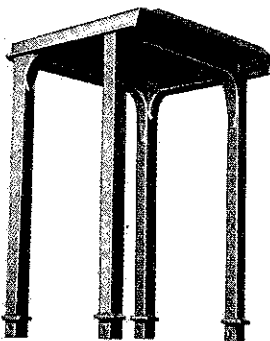
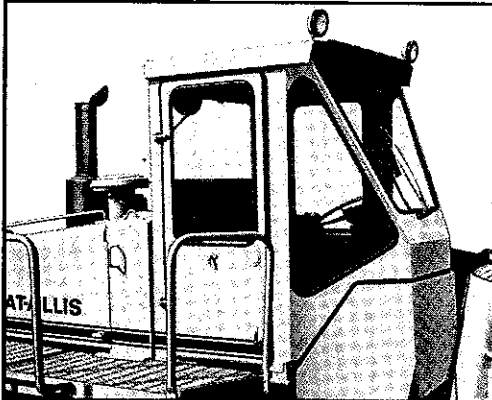
PILOT-OPERATED CONTROLS

Hydraulic controls for boom raise and lower and bucket dump and retract are pilot-operated. Short control levers have only 4" (100 mm) total travel for easy control operation. The hydraulic control tower is adjustable fore and aft. Operators can adjust control tower position to satisfy their preference for control location.



SOF-SHIFT* TRANSMISSION

The twin turbine torque converter phases in and out automatically between first and second, third and fourth speeds and provides the proper match between speed and power requirements. The SOF-SHIFT transmission allows the operator to make full power directional shifts in low ranges to boost production. SOF-SHIFT and single lever transmission control reduce operator fatigue.



FIAT-ALLIS ROPS

- Complies with SAE and OSHA ROPS requirements.
- Pin-connected for easier removal and installation.
- Rubber isolation mounted for reduced vibration and noise.
- Standard cab equipment includes tinted safety glass, front windshield wiper, two full doors which can be latched back for ventilation, sliding side windows and headliner.
- Optional cab accessories include rear windshield wiper, heater, front and rear defroster fans, turn signals and sound suppression.

OPTIONAL AND ALLIED EQUIPMENT

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> ● Air conditioner ● Air suspension seat ● Alternator 50 amp. ● Buckets — special purpose, light material, rock ejector, etc. ● Bucket teeth | <ul style="list-style-type: none"> ● ROPS canopy ● Counterweight ● Differential, no-spin ● Ether starting aid ● Hood side panels ● Lift eyes ● Logging arrangement | <ul style="list-style-type: none"> ● Logging counterweight ● Log and lumber forks ● Steering knob ● Supplemental steering system ● Tires, special purpose ● Tool kit ● Vandalism protection |
|---|---|--|



The information contained herein is general in nature and is not intended for specific application purposes. Fiat-Allis reserves the right to make changes in specifications shown herein or add improvements at any time without notice or obligation. Illustrations show standard and non-standard items.

*SOF-SHIFT is a Fiat-Allis trademark.