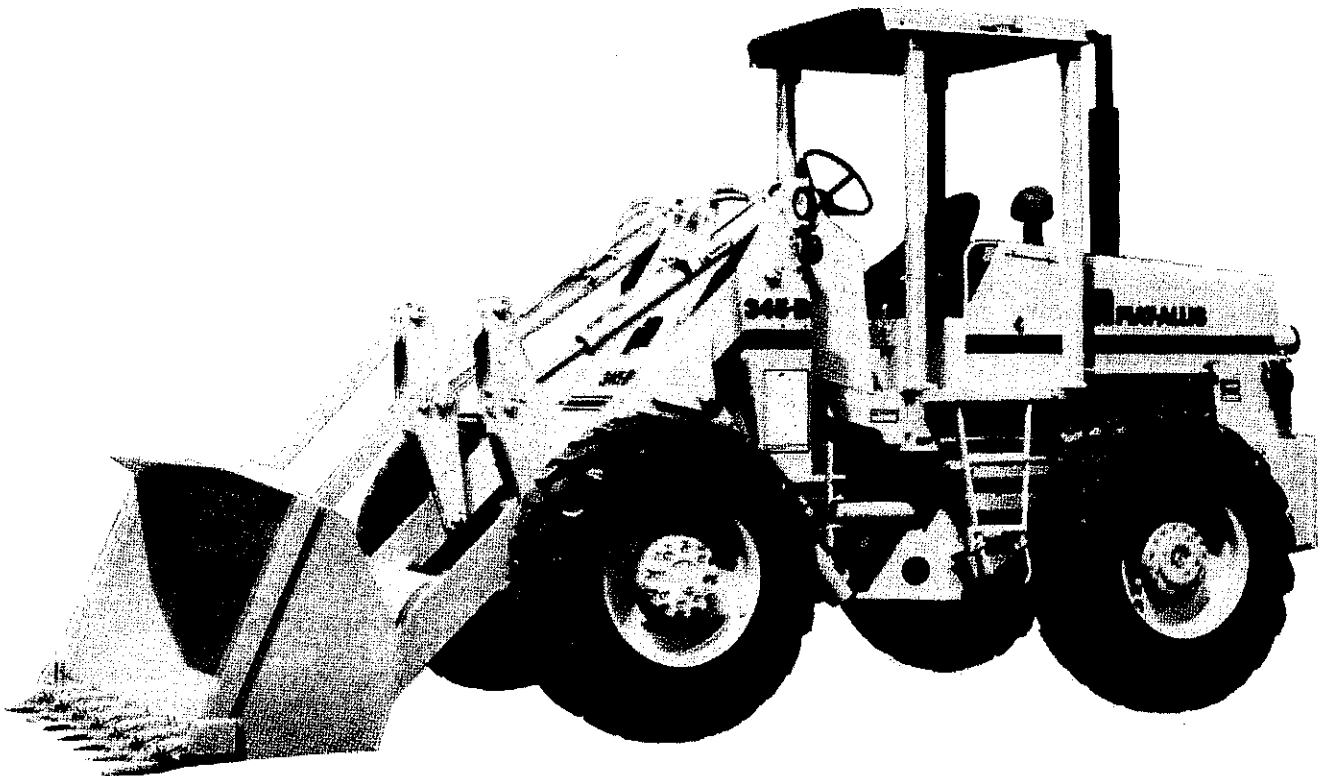


345-B



345-B WHEEL LOADER

Illustration includes
optional equipment.

CAPACITY

- Buckets — $1\frac{1}{2}$ & $1\frac{3}{4}$ cu. yd. General Purpose
1,1 & 1,3 m³
- Full Turn Tipping Load — Up to 10,770 lbs.
(4880 kg)
- Breakout Force — Up to 12,160 lbs. (5520 kg)
- Operating weight — 15,450 to 18,000 lbs.
7000 to 8160 kg

STABILITY

- Long wheelbase, 96" (2438 mm)
- Wide tread, 70" (1778 mm)

SPEED

- 3 x 3 full power shift
- Single lever transmission control

POWER

- Allis-Chalmers model 2800 diesel engine
- Flywheel horsepower — 80
- Large displacement — 301 cu. in. (4,93 lit.)
- Six cylinder, direct injection

LOADING ABILITY

- Ground level load and carry
- Single lever hydraulic control
- Powerful responsive hydraulics
- Torque proportioning differentials

SERVICEABILITY

- Ground level access to check points and filters

DEPENDABILITY

- In-line straddle mounted linkage
- Rugged self-aligning pivot bearings
- Proven power train

MANEUVERABILITY

- 80° Articulation, 14'7" (4446 mm) turning radius
- Quick steering response at all engine speeds
- Wheels track

345-B SPECIFICATIONS



ENGINE

| | |
|---------------------------|--|
| Make | Allis-Chalmers |
| Model | 2800 Mark I |
| Type | Direct injection, naturally aspirated diesel |
| Flywheel horsepower* | 80 |
| Kilowatts** | 60 |
| Governed rpm | 2500 |
| Maximum torque | |
| ft.-lbs. @ rpm | 218 ft. lbs. @ 1600 rpm |
| kg-m @ rpm | 30,1 kgm @ 1600 rpm |
| Bore & stroke | 3.875" x 4.25" (98,4 x 108 mm) |
| Number of cylinders | 6 |
| Displacement | 301 cu. in. (4.93 lit) |

*Net flywheel horsepower available at the flywheel of the vehicle engine under SAE J816b standard conditions of 85°F (29°C) and 29.38" (746 mm) hg. after deductions have been made for Fan, Alternator, Lube Oil Pump, Water Pump, Fuel Pump, Air Cleaner and Muffler.

****Kilowatts is the International System of Units for power. One (1) horsepower equals 0.746 kilowatt in U.S.A. units.**



TORQUE CONVERTER

Type Single Stage
Torque multiplication 3.1 to 1



TRANSMISSION

| | | |
|----------------|------------------|-------|
| Type | Full power shift | |
| Forward Speeds | mph | km/hr |
| 1 | 4.0 | 6.4 |
| 2 | 8.2 | 13.2 |
| 3 | 20.7 | 33.3 |
| Reverse Speeds | | |
| 1 | 4.0 | 6.4 |
| 2 | 8.2 | 13.2 |
| 3 | 20.7 | 33.3 |



AXLES

Torque proportioning differentials front and rear.
Planetary reduction at wheel end. Axle shafts removable
independent of wheel and planetary.
Rear axle oscillation 22°
Vertical travel..... 13" (339 mm)



BRAKE SYSTEMS

Service—four wheel hydraulic drum brakes with hydraulic power assist.
Parking—mechanically actuated drum brake on drive line.



TIRES

| | |
|----------------------|-----------------------|
| Type | Tubeless |
| Standard Tires | 14.00 - 24 (10 PR) G2 |
| Optional | 14.00 - 24 (12 PR) G2 |
| | 15.5 - 25 (12 PR) L2 |
| | 17.5 - 25 (12 PR) L2 |



ELECTRICAL SYSTEM

Voltage.....12
Standard alternator 51 amp
Two batteries 190 amp-hr. total rating
System protected by circuit breakers.



LOADER HYDRAULIC SYSTEM

| | |
|-------------------------------|--------------------------------------|
| Type | Closed with pressure & vacuum relief |
| Cylinders | Double acting |
| Lift (2) | 4" x 31.4" (102 x 798 mm) |
| Dump (2) | 3" x 36" (76 x 914 mm) |
| Pump | Gear type |
| Capacity @ governed rpm | 30 gpm (114 lit/min) |
| Control valve | Two spool stack type |
| Relief valve pressure | 2350 psi (165 kg/cm ²) |
| Lift time | 6.5 sec |
| Dump time | 2.0 sec |
| Lower time | 3.4 sec |



STEERING SYSTEM

Type Hydrostatic full hydraulic power
Cylinders Two single acting
Bore & Stroke 3" x 19.4" (76 x 493 mm)
Pump Gear type
Flow divider regulated 12 gpm (44 lit/min)



FILTRATION SYSTEMS

ENGINE
 Lube Oil..... Full flow 25 micron
 Fuel..... Full flow 5 micron with water separator
 Air cleaner Dry type with safety element
TRANSMISSION - TORQUE CONVERTER
 Oil..... Full flow 55 micron
HYDRAULIC OIL Full flow 10 micron



CAPACITIES

| | |
|-------------------------------|-------------------------------|
| ENGINE | |
| Lube Oil | 4.5 U.S. gal. (17 lit) |
| Coolant | 6 U.S. gal. (22,7 lit) |
| Fuel tank | 34 U.S. gal. (128,5 lit) |
| TRANSMISSION | 5.5 U.S. gal. (20,8 lit) |
| HYDRAULIC SYSTEM | 38 U.S. gal. (144 lit) |
| AXLES | Front 4 U.S. gal. (15,1 lit) |
| | Rear 3.5 U.S. gal. (13,2 lit) |



STANDARD EQUIPMENT

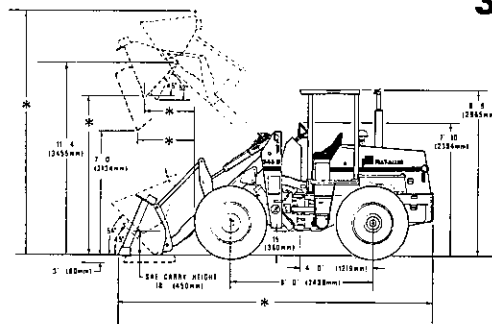
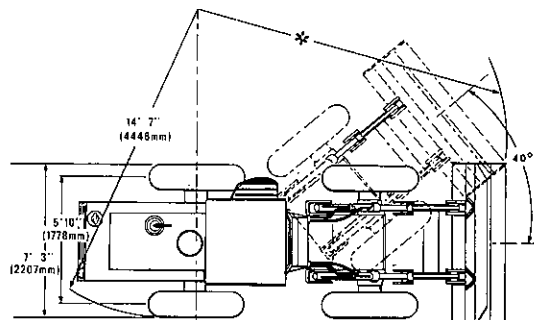
● Air filter service indicator ● Back-up alarm ● Bucket level indicator ● ROPS canopy with headliner ● Torque proportioning differentials ● Transmission disconnect (neutralizer) ● Pusher fan ● Fan finger guard ● Engine intake air heater ● Electric horn ● Muffler ● Adjustable bucket seat ● Seat belt ● Boom lock ● Frame lock.

Gauges—ammeter, converter temperature, engine oil pressure, fuel level, hourmeter, transmission oil pressure, engine coolant temperature, hydraulic oil level sight gauge.

Lighting—headlights, rear floodlights, rear stop and taillights, dashlights, turn signals.

DIMENSIONS

345-B



(*) Refer to Performance Data Below

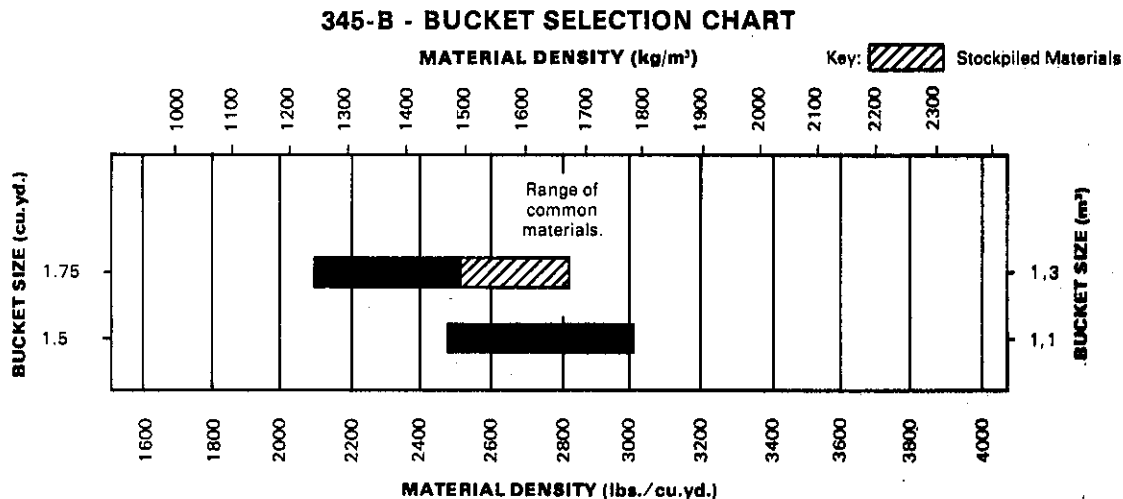
PERFORMANCE DATA

| | U.S.A. UNITS | | METRIC | |
|------------------------------------|--------------|--------------|---------------------|---------------------|
| | | | | |
| BUCKET CAPACITY RATED | 1.5 cu. yd. | 1.75 cu. yd. | 1,1 m ³ | 1,3 m ³ |
| STRUCK CAPACITY | 1.24 cu. yd. | 1.48 cu. yd. | 0,95 m ³ | 1,13 m ³ |
| BUCKET WEIGHT | 1,137 lbs. | 1,326 lbs. | 516 kg | 601 kg |
| BUCKET WIDTH | 90" | 90" | 2286 mm | 2286 mm |
| DUMP HEIGHT 45° | 9'4" | 9'1.5" | 2844 mm | 2782 mm |
| REACH 45° | 39" | 41" | 987 mm | 1049 mm |
| REACH 45° 7 Ft. | 58.5" | 60" | 1489 mm | 1529 mm |
| OVERALL LENGTH (BUCKET ON GROUND) | 18'1" | 18'5" | 5516 mm | 5604 mm |
| OVERALL HEIGHT (BUCKET RAISED) | 14'4" | 14'7" | 4370 mm | 4453 mm |
| CLEARANCE CIRCLE (BUCKET AT CARRY) | 32'2" | 32'4" | 9802 mm | 9844 mm |
| BREAKOUT FORCE | 12,160 lbs. | 10,610 lbs. | 5520 kg | 4810 kg |
| TIPPING LOAD 0° | 10,744 lbs. | 10,448 lbs. | 4873 kg | 4740 kg |
| 35° | 9,584 lbs. | 9,297 lbs. | 4347 kg | 4217 kg |
| 40° | 9,245 lbs. | 8,961 lbs. | 4193 kg | 4065 kg |
| OPERATING WEIGHT | 16,095 lbs. | 16,284 lbs. | 7300 kg | 7386 kg |

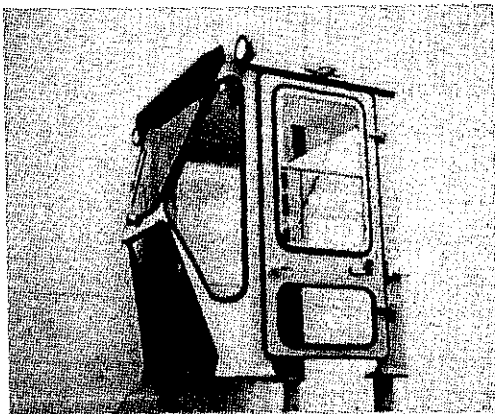
| OPTIONAL EQUIPMENT PERFORMANCE DATA | WEIGHT | TIPPING LOAD | | |
|---|------------------------|------------------------|------------------------|------------------------|
| | | 0° | 35° | 40° |
| 14.00 x 24 (10PR) G2 Tires | -220 lbs. -100 kg | -196 lbs. -89 kg | -208 lbs. -95 kg | -210 lbs. -95 kg |
| 14.00 x 24 (10PR) G2 Tires with 75% CaCl ₂ in rear | +810 lbs. +367 kg | +1,083 lbs. +491 kg | +928 lbs. +421 kg | +885 lbs. +401 kg |
| 15.5 x 25 (12PR) L2 Tires with 75% CaCl ₂ in rear | +940 lbs. +426 kg | +1,167 lbs. +529 kg | +1,038 lbs. +471 kg | 1,001 lbs. +454 kg |
| 17.5 x 25 (12 PR) L2 Tires | +500 lbs. +227 kg | +293 lbs. +132 kg | +252 lbs. +114 kg | +241 lbs. +109 kg |
| 17.5 x 25 (12PR) L2 Tires with 75% CaCl ₂ in rear | +1,718 lbs. +779 kg | +1,796 lbs. +814 kg | +1,588 lbs. +720 kg | +1,529 lbs. +693 kg |
| Counterweight (not to be used with CaCl ₂) | +795 lbs. +361 kg | +1,471 lbs. +667 kg | +1,251 lbs. +567 kg | +1,187 lbs. +538 kg |
| ROPS Canopy (in lieu of ROPS cab) | -422 lbs. -191 kg | -303 lbs. -137 kg | -283 lbs. -128 kg | -276 lbs. -125 kg |
| Less ROPS | -960 lbs. -435 kg | -715 lbs. -324 kg | -662 lbs. -300 kg | -646 lbs. -293 kg |

NOTE: All performance data and specifications are based on the standard unit without tire ballast or counterweight, equipped with 15.5 x 25 (12PR) tires, ROPS cab and bucket as indicated. All data is obtained in compliance with the latest SAE Recommended Practices including J732c and J742b.

345-B BUCKET SELECTION CHART



Bucket recommendations shown above are based on normal materials and average operating conditions. When selecting the proper bucket for a specific application other factors, such as the loadability and heaping characteristics of the material, terrain and other pertinent job conditions must also be considered.



FIAT-ALLIS ROPS CAB

Offers added operator comfort in poor weather.

Complies with SAE and OSHA ROPS requirements.

Pin-connected for easier removal and installation.

Standard equipment includes tinted safety glass, front windshield wiper, two full doors which can be latched back for ventilation, sliding side windows and headliner.

Optional accessories include rear windshield wiper, heater, front and rear defroster fans and sound suppression.

OPTIONAL AND ALLIED EQUIPMENT

Air conditioner
Automatic bucket positioner
Buckets, special purpose:
light material, snow, multi-
purpose, tine, refuse, etc.
Bucket teeth

Counterweight
Drawbar
Ether starting aid
Fenders, front and rear
Forks — log, lumber and pallet
Front piping

Hood side panels
Lift eyes
Quick coupler system
Snow plows and wings
Special painting
Three-spool valve

Tires, special purpose:
radial, foam filled, extra ply,
deep tread, etc.
Tool kit
Vandalism protection



The dimensions, weights and capacities shown herein, as well as any conversion data used, are approximate only and are subject to variations within normal manufacturing techniques. 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.