

11-B

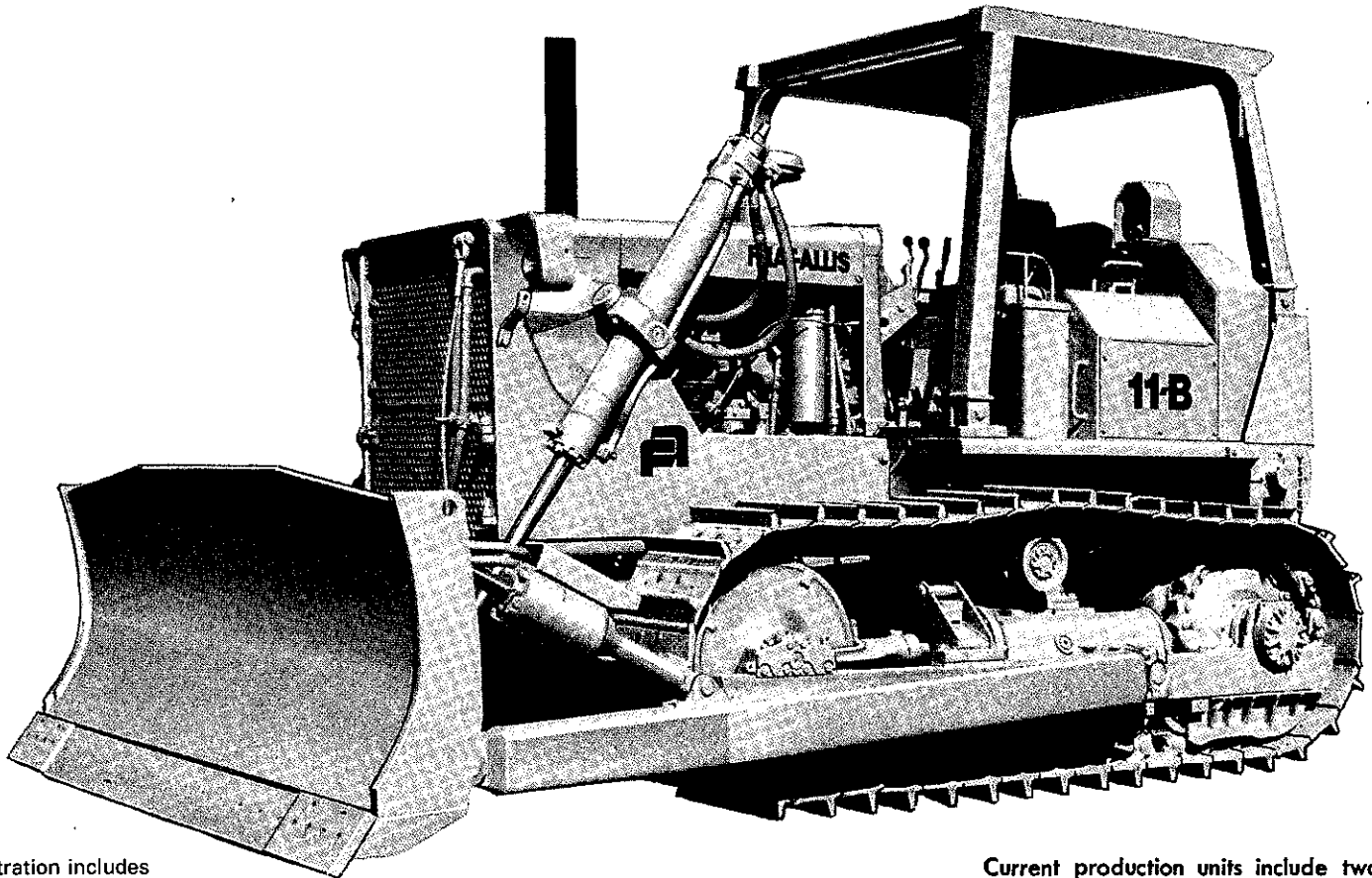


Illustration includes
Optional Equipment.

11-B Crawler Tractor

Current production units include two
support rollers as standard Equipment

POWER SHIFT ••• 140 Flywheel H.P.

WEIGHT

- A medium size dozer with excellent weight distribution . . . ability to operate in areas where competitors fail.

POWER

- A big 516 cu. in. (8.5 lts.) engine with many features, just to mention a couple . . . direct injection for fuel economy . . . simple, efficient multi-plunger fuel system . . . performance to make the 11-B a high production unit.

SAFETY AND COMFORT

- Designed with the operator's safety and convenience in mind: a ROPS Canopy is standard. A fully enclosed ROPS cab is available . . . comfortable operator's compartment.

PROFITABILITY

- Dozing ability . . . two moldboards to meet wide variety of application requirements . . . straight "HS" and angle "HA."
- Pushing ability . . . dozing production studies show the 11-B is a high production unit against all its competitors.
- Ripping ability . . . penetration up to 36" (914 mm) of material . . . two rippers are available . . . 11-B modified parallelogram with 1, 2, or 3 shanks and the Kelley single shank.

11-B SPECIFICATIONS



ENGINE

FLYWHEEL HORSEPOWER* 140

KILOWATTS** 104

Make and Model Allis-Chalmers 11000
Type Diesel, 4-Cycle, Turbocharged, Direct Injection
Governed RPM 2050
Number of Cylinders 6
Bore and Stroke 4 7/16" x 5 9/16" (113 x 141 mm)
Displacement 516 cu. in. (8.5 lit)

*The net flywheel horsepower of the vehicle engine under SAE standard conditions of 85°F. (29°C) and 29.38 inches (746 mm) hg. after deductions have been made for fan, alternator, lube oil pump, water pump, air cleaner, fuel pump, and muffler. This vehicle may be operated up to 10,000 ft. (3048 m) altitude without derating the engine.

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



ELECTRICAL SYSTEM

Voltage 24V
Standard alternator 20 Amp
Battery amp/hour rating 170



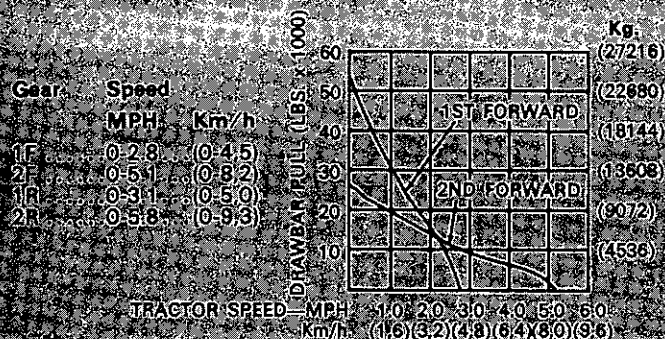
TORQUE CONVERTER

Type Single-stage, Rotating Housing
Torque multiplication 3.20:1



POWER SHIFT TRANSMISSION

Type Full Power Shift, Countershaft, Constant Mesh
Actuation Single Lever
Clutches Multi-disc Hydraulic
Lubrication Full Pressure



FINAL DRIVES

Type Double reduction
Ratio 7.7:1
Lubrication Splash



TRACK

Non-sealed, hydraulic track adjusters with interlocking guards. Sprockets with bolt on segments. Outer sprocket guards. Disc idler.

Track guiding guards, Track rollers, carrier rollers and idlers are permanently lubricated and sealed.

Track Frame Oscillating
Track Rollers (each side) 6
Number of Shoes (each side) 40
Width of Standard Track Shoe 20" (508 mm)
Length of Track on Ground 92.1" (2339 mm)
Ground Contact Area 3684 sq. in. (23769 cm²)
Gauge 74" (1880 mm)
Ground Clearance 11.6" (295 mm)



HYDRAULIC SYSTEM

Reservoir Closed
Cylinders Double Acting
Dozer (Two) 5" x 37" (127 mm x 940 mm)
Tilt (Right Side) 6" x 4 1/2" (152 mm x 114 mm)

Pump

Capacity @ Governed RPM
Large Section 57 GPM (216 lit)
Small Section 29 GPM (110 lit)
Control Valve 1 Spool, 3 Spool Option
Relief Valve Pressure 1550 psi (109 kg/cm²)
Actuation Single Lever
Dozer Raise, Hold, Lower, Float
Tilt Left and Right



FILTRATION SYSTEMS

ENGINE
Lube Oil 2 Full Flow 25 Micron and By-pass 5 Micron
Fuel 2 Full Flow 5 Micron
Air Cleaner Dry Type w/safety Element and Automatic Dust Evacuator
Coolant Water Filter and Conditioner

TRANSMISSION —
TORQUE CONVERTER 1 Full Flow, 20 Micron Full Flow Suction Screen

STEERING AND BRAKING

HYDRAULIC

Full Flow Suction Screen
2 Full Flow 20 Micron w/screen and Magnet
2 Full Flow 10 Micron w/screen and Magnet



STEERING AND BRAKING

Hydraulically actuated clutches with modulated control provide maximum maneuverability with minimum effort. Mechanically actuated double wrap brakes provide dead engine braking.

Clutches and brakes are oil cooled and lubricated for long trouble-free hours of operation.

Braking Surfaces - each clutch 32
Friction Area - each clutch 1.1 sq. ft. (96.9 cm²)
Friction Area - each brake 22.4 sq. ft. (207.5 cm²)



CAPACITIES

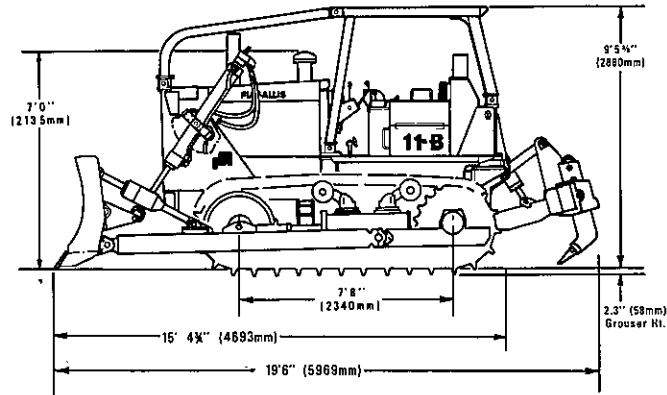
ENGINE CAPACITIES
Lube Oil 7.25 U.S. gal (27 lit)
Coolant 12 U.S. gal (45 lit)
Fuel Tank 100 U.S. gal (379 lit)

TRANSMISSION
TORQUE CONVERTER 14 U.S. gal (53 lit)

STEERING AND BRAKING
HYDRAULIC SYSTEM (each side) 17 U.S. gal (64 lit)

HYDRAULIC SYSTEM, w/Ripper 32 U.S. gal (121 lit)
HYDRAULIC SYSTEM 34 U.S. gal (129 lit)

DIMENSIONS



DOZER

DOZER TYPE	Straight	Angle
DOZER MODEL	11 HS	11 HA
MOLDBOARD		
Width	9'9" (2972 mm)	12'5" (3785 mm)
Height	44" (1118 mm)	34" (864 mm)
Max. Lift Above Ground	40.4" (1026 mm)	42 1/2" (1080 mm)
Max. Drop Below Ground	15.6" (396 mm)	17" (432 mm)
Max. Tilt — Either End	12" (305 mm)	12" (305 mm)
Max. Pitch Adjustment	10" (254 mm)	—
CUTTING EDGES		
Center Section — Reversible	Yes	Yes
Width	8" (203 mm)	8" (203 mm)
Thickness	3/4" (19 mm)	3/4" (19 mm)
END OR CORNER BITS		
Width	8" (203 mm)	8" (203 mm)
Thickness	1 1/4" (32 mm)	1 1/4" (32 mm)
Interchangeable	Yes	No
Replaceable	Yes	Yes



WEIGHTS & DIMENSIONS

11-B SHIPPING WEIGHTS

w/Standard Equipment	27905 lbs. (12658 kg)
w/o Canopy and Seat Belt	26485 lbs. (12014 kg)

Units	Overall Length	Operating Weights w/Canopy	Max. Track Shoe Allowance
Power Shift			
HS w/drawbar	15' 4 3/4" (4693 mm)	31335 lbs. (14213 kg)	18" (457 mm)
HA w/drawbar	15' 7" (4795 mm)	31755 lbs. (14404 kg)	22" (559 mm)
HS w/11-R	19' 6" (5964 mm)	36370 lbs. (16497 kg)	18" (457 mm)
HA w/11-R	19' 9" (6065 mm)	36780 lbs. (16688 kg)	22" (559 mm)
HS w/Kelley	22' 9" (6975 mm)	36840 lbs. (16710 kg)	18" (457 mm)
HA w/Kelley	23' 0" (7010 mm)	37265 lbs. (16903 kg)	22" (559 mm)

ROPS Cab add 1520 lbs. (689 kg)



RIPPER

Overall Width 74" (1880 mm)
Ripping Width 68" (1727 mm)
Weight (Basic Ripper) 4427 lbs. (2008 kg)

BEAM (Welded Box Section)

Length 74" (1880 mm)
Section 12" x 12" (305 x 305 mm)

SHANKS (None standard, 1, 2, or 3 Optional)

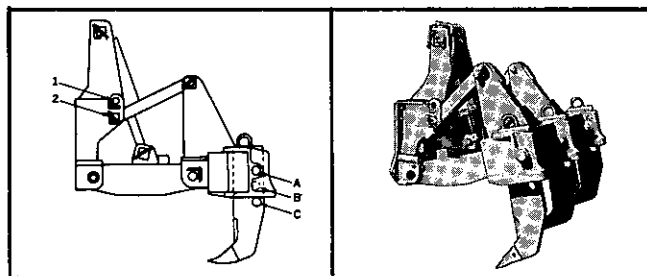
Type Straight and Adjustable
Positions 3
Space (Center to Center of Shanks) 34" (864 mm)
Max. Depth of Penetration 21" (533 mm)
Length 38" (965 mm)
Section 2.5" x 10" (64 x 254 mm)
Weight, Ea. Shank
(W/shank guard, 1 tooth) 278 lbs. (126 kg.)

TEETH

Type One Piece, Forged Self Sharpening
Length 12" (305 mm)
Weight, each 16.5 lbs. (7 kg)

CONTROL

Hydraulic Two Double Acting Cylinders
7" Bore x 16.25" Stroke (178 x 413 mm)



	Max.	Ground Clearance Under Tip, Raised		Overall Length Dozer & Ripper, Raised	
Shank Position	Penetration Inches (MM)	Strut Positions		Strut Positions	
		1	2	1	2
A	21" (533 mm)	9.5" (241 mm)	13.7" (348 mm)	196.8" (4999 mm)	200.2" (5085 mm)
B	16.5" (419 mm)	13.6" (345 mm)	17.3" (439 mm)	196.1" (4981 mm)	197.5" (5017 mm)
C	12" (305 mm)	17.8" (452 mm)	20.9" (531 mm)	196.1" (4981 mm)	194.7" (4945 mm)



STANDARD EQUIPMENT

- Air cleaner — dry w/service indicator and safety element
- Alternator — 20 A
- Back-up alarm
- Brakes — double wrap, oil cooled
- Decelerator — front pedal
- Drawbar — fixed
- Fan — blower
- Filter — water
- Horn
- Hourmeter — electric
- Gauges —

- engine oil pressure
- water temperature
- ammeter
- trans. clutch pressure
- Hydraulics — tank & one spool valve pump and piping
- dozer cylinders and piping
- Idlers — disc
- Pull hook front
- Radiator guard, hyd. dozer
- ROPS canopy

- Seat belt
- Sprockets — segmented
- Starting 24V direct electric w/master switch lock
- Steering clutches — modulated hyd. powered
- Torque converter
- Track unsealed
- Track adjusters — hyd.
- Track rollers — 6 each side
- Track shoes — 20" (508 mm) full grousers
- Transmission — power-shift — direct drive



OPTIONAL EQUIPMENT

- Alternator — 50 A
- Drawbar — swinging
- Drawbar — severe service
- Fan — reversible
- Vandalism protection
- Ground drive pump
- Guards — fuel tank and seat
- crankcase and transmission

- partial and full track roller
- sprocket inner
- track frame end and bottom
- outer sprocket seal
- Lighting
- PTO reversible reduction
- Radiator grid
- Tool kit
- Starting fluid primer

- Full Grouser 18" (457 mm)
- Full grouser 22" (558 mm)
- Full grouser — 8 roller track frame incl. partial track roller guards - front, rear, center - sections with 24" or 30" (610 mm or 760 mm) full grousers
- Full track roller guards for 8 roller track frame
- Special painting



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