

1121G

XR WHEEL LOADER
TIER 4 FINAL CERTIFIED



ENGINE	
Make	FPT
Model	F2CFE614F
Emissions Certification	Tier 4 Final
• •	oke, turbocharged nd air-to-air cooler
Cylinders	6-cylinder in-line
Bore/Stroke	4.61 x 5.31 in (177 x 135 mm)
Displacement	531 in ³ (8.7 L)
	#1 and #2 mixture cold temperatures
Fuel injection Direct inje	ection – electronic
Fuel filter full flow	Replaceable, spin-on cartridge
Fuel pump	Bosch CP 3.3
Gradeability: Side-to-side Fore and aft	35° 35°
Air filter 2	element dry type
w/ warning re	estriction indicator
Mid-mount cooling module: Mid-mount cooling module:	d-mount air/water
Fan – hydraulic driven: Style Diameter	9 blade puller 34.5 in (876 mm)
Water pump	Integral
Engine oil pump operating ang Side-to-side Fore and aft Oil filtration	lle ratings: 35° 35° Replaceable, spin-on cartridge
Engine speeds Rated – full load	RPM 2100
Horsepower: Maximum Power Mode: Peak gross @ 1800 RPM Net rated @ 2100 RPM Peak net @ 1800 RPM Standard Power Mode: Peak gross @ 1700 RPM Net rated @ 1700 RPM Peak net @ 2100 RPM Economy Power Mode: Peak gross @ 1400 RPM	347 hp (259 kW) 284 hp (212 kW) 320 hp (239 kW) 322 hp (240 kW) 300 hp (223 kW) 262 hp (195 kW) 279 hp (208 kW)
Net rated @ 1400 RPM Peak net @ 1800 RPM	266 hp (199 kW) 218 hp (163 kW)

Torque - peak:	
Maximum Power Mode:	
Gross @ 1100 RPM	1,183 lb·ft (1 604
Net @ 1100 RPM	1,153 lb·ft (1 564
Standard Power Mode:	
Gross @ 1400 RPM	1,143 lb·ft (1 550
Net @ 1400 RPM	1,096 lb·ft (1 485
Economy Power Mode:	
Gross @ 1300 RPM	1,088 lb·ft (1 475
Net @ 1300 RPM	1,047 lb·ft (1 419
Torque rise:	

NOTE: Gross horsepower and torque per SAE J1995. Net horsepower and torque per SAE J1349.

DRIVETRAIN

Maximum power range

Transmission:

Gaars

4F/3R Proportional w/ Electronic Control Module torque sensing autoshift/manual shift and modulation

Gears	Helical cut
Torque converter: Stall ratio	2.51:1
Differential: Open Type Differential	
Rear axle oscillation	24° total
Front and rear axles:	
Differential ratio	4.25
Planetary ratio	6.35
Final axle ratio	27.00

Special application axles – optional: Front axle equipped w/ locking differential

Rear axle equipped w/ open differential

Planetaries Outboard

Service brakes:

Hydraulically actuated, maintenance-free, multiple wet disc w/ accumulator to all four wheels

Brake surface area:

Front hub – each 1,144 in² (0.738 m²) Rear hub – each 1,144 in² (0.738 m²)

Parking brakes:

Spring-applied hydraulic release disc on transmission output shaft neutralizes power flow to wheels when engaged

Travel speeds – 4-speed transmission:

	Forward	Reverse
	mph (kph)	mph (kph)
1st	4.3 (6.9)	4.3 (6.9)
2nd	7.2 (11.6)	7.2 (11.6)
3rd	11.0 (17.7)	15.8 (25.5)
4th	23.2 (37.4)	_

NOTE: Travel speeds at full engine throttle w/ 26.5 x 25 L3 Radial tires.

ELECTRICAL

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N·m)

N·m)

50%

Halical cut

Voltage	24 Volts, negative ground
Alternator	120 amp
Batteries (2)	12-volt

OPERATOR ENVIRONMENT

ROPS cab AC w/ heat; Key start; Articulated power steering w/ tilt column; Fully adjustable, suspension seat; Foot throttle; Single lever loader control w/ fully adjustable wrist rest, 2 cup holders; 2 interior rear view mirrors; 2 in (51 mm) retractable seat belt; Multiple storage trays; Single brake pedal; F/N/R shuttle switch; External rearview mirrors; Pressurized air filtering; Anti-glare window strip; Front and Rear Defroster; Side window, partial/fully open; 2 Dome lights; Wipers, rear and intermittent front; Windshield washers, front and rear; Rubber floor mat; Horn.

Dispays/Gauges:

Digital:

Transmission oil temperature; Engine coolant temperature; Fuel level; DEF level.

LCD screen:

Hour meter; Time; FNR indication; Trip computer; Metric/english; Differential lock*; Engine speed; Automatic trans indication; DeClutch indication; Fuel consumption; Engine diagnostics; Error reporting; Travel speed; Current gear selection; Engine mode indication; Multiple languages; Transmission diagnostics.

Audible/Visual alarms:

Warning lights:

Four-way flashers; High beam lights; Grid heater*; Low brake pressure; Parking brake.

Caution warnings:

Parking brake; Coolant temperature; Hydraulic oil temperature; Transmission oil temperature; Air filter; Transmission filter; Hydraulic filter; Alternator; Low fuel.

Critical warnings:

Engine oil pressure; Brake pressure; Steering pressure – w/ aux. steering*; Coolant temperature; Hydraulic oil temperature; Transmission oil temperature.

Backup alarm

Maintenance reminders:

Cab air filter; Engine oil filter; Fuel pre-filter; DEF tank vent filter; SCR supply filter; Hydraulic oil and filter; Engine air filter; Engine coolant drive belt; Cab recirculation filter; Engine breather filter; Transmission breather; Front and rear axle fluid; SCR supply module filter.

NOTE: *If equipped w/ option.

OPERATING WEIGHT

Z-Bar

Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; 26.5-R25 L3 Radial Tires; 5.25 yd³ (4.8 m³) GP pin-on w/ bolt on edge; Full fuel; 165 lb (75 kg) operator: 61,650 lb (27 964 kg)

XR

Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; 26.5-R25 L3 Radial Tires; 5.25 yd³ (4.8 m³) HD pin-on w/ bolt on edge; Full fuel; 165 lb (75 kg) operator: 63,443 lb (28 777 kg)

HYDRAULICS

Pump – steering/implement: Closed center pressure/flow compensated

Variable displacement – load-sensing: 50.2 gpm @ 2000 RPM (190 L/min @ 2000 RPM)

Loader control valve:

Closed-center, sectional 2, 3 or 4-function w/ pilot control for lift, tilt and auxiliary hydraulics, electromagnetic detents in float, raise and rollback

Loader auxiliary steering: Hydraulic orbital center-pivot articulating w/ on-demand oil flow

High pressure standby:

Implement 3,650 psi (25 165 kPa) Steering 3,495 psi (24 097 kPa)

Filtration:

Filtered vent w/ relief on hydraulic reservoir, maintains 3-5 psi on reservoir, 10-micron, return filter furnishes only clean oil to all components of the system

SERVICE CAPACITIES	
Fuel tank	125 gal (473.0 L)
DEF tank – Diesel Exhaust F Usable capacity Total	Fluid: 16 gal (61.0 L) 24 gal (90.8 L)
Hydraulic system: Reservoir Total	35 gal (134.0 L) 66 gal (250.0 L)
Transmission: Service w/ filter	12 gal (45.4 L)
Front and rear axle: Front axle Rear axle	68 qt (64.0 L) 68 qt (64.0 L)
Engine oil w/ filter	30 qt (26.5 L)
Cooling system	15 gal (56.8 L)

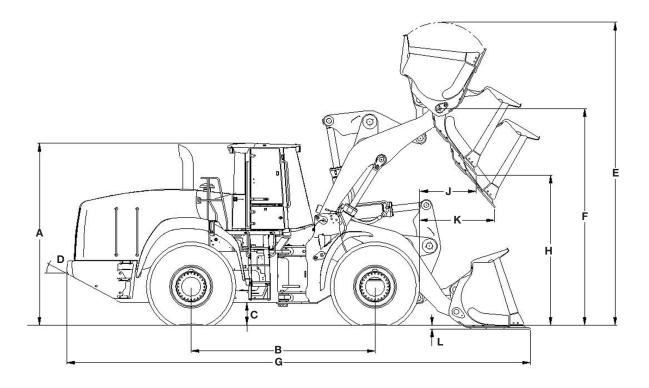
OTHER SPECIFICATI	IONS
Lift cylinder:	
Bore diameter	7.00 in (177.8 mm)
Rod diameter	4.50 in (114.3 mm)
Stroke	34.48 in (875.8 mm)
Dump cylinder:	
Bore diameter	8.00 in (203.2 mm)
Rod diameter	5.00 in (127.0 mm)
Stroke	27.35 in (694.7 mm)
Loader:	
Z-Bar loader linkage;	Single control for

Z-Bar loader linkage; Single control for lift and tilt; Positive hold float; Automatic return-to-dig; Automatic height control; Automatic return-to-travel; Brake pedal transmission disconnect; Bucket position indicator on bucket.

Cycl	е	time:	

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Raise w/ rated bucket load	6.5 sec
Dump w/ rated bucket load	1.4 sec
Power down	2.8 sec
Float down	2.6 sec

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Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS	
A. Height to top of ROPS cab	140.8 in (3 579 mm)
Height to drawbar	44.8 in (1 137 mm)
B. Wheelbase	139.8 in (3 550 mm)
C. Ground clearance	17.2 in (437 mm)
D. Angle of departure, rear	23°
Width:	
Overall* without bucket	117.2 in (2 978 mm)
Centerline tread	90.6 in (2 300 mm)
Turning radius* – outside	250.6 in (6 366 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation – total	26°

NOTE: *Dimensions taken with 26.5-R25 L3 Radial Tires. Additional dimensions on pages 4 through 5.

WEIGHT ADJUSTMENTS			
		Tipping Load	Tipping Load
	Weight	Adjustment	Adjustment
Select Options	Adjustment	Straight	40° Turn
26.5 x 25 L5 Radial Tires	+1,138 lb (+516 kg)	+1,743 lb (+791 kg)	+1,711 lb (+776 kg)

NOTE: Unit equipped with Z-Bar loader arms, 6.25 yd³ (4.8 m³) pin on bucket w/ bolt-on edge, 26.5-R25 L3 Radial Tires, ROPS cab with heater and A/C, full counterweight, front and rear fenders, full fuel and 165 lb (75 kg) operator. Adjust select options from rated weight.

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PERFORMANCE SPECS			
1121G Z-Bar*	5.25 yd³ GP (4.0 m³) Bucket with Bolt-on Edge	5.1 yd³ GP (3.9 m³) Bucket with Teeth Only	6.25 yd³ GP (4.8 m³) Bucket with Bolt-on Edge
Operating weight	61,288 lb (27 800 kg)	61,284 lb (27 798 kg)	61,650 lb (27 964 kg)
SAE bucket capacity – struck	4.53 yd ³ (3.46 m ³)	4.33 yd³ (3.31 m³)	5.45 yd³ (4.17 m³)
Heaped	5.25 yd ³ (4.01 m ³)	5.06 yd ³ (3.90 m ³)	6.25 yd ³ (4.78 m ³)
Bucket width - outside	125.8 in (3 195 mm)	126.9 in (3 223 mm)	125.8 in (3 195 mm)
Bucket weight	4,580 lb (2 077 kg)	4,575 lb (2 075 kg)	4,941 lb (2 241 kg)
E. Operating height – fully raised with spillguard	235.8 in (5 988 mm)	235.8 in (5 988 mm)	242.0 in (6 147 mm)
F. Hinge pin height – fully raised	175.2 in (4 450 mm)	175.2 in (4 450 mm)	175.2 in (4 449 mm)
G. Overall length – bucket level on ground	355.1 in (9 020 mm)	362.3 in (9 202 mm)	361.1 in (9 172 mm)
Dump angle – fully raised	50°	50°	50°
H. Dump height – fully raised, 45° dump	130.2 in (3 306 mm)	125.5 in (3 188 mm)	126.3 in (3 209 mm)
J. Bucket reach – fully raised, 45° dump	45.5 in (1 156 mm)	50.8 in (1 290 mm)	50.1 in (1 273 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	77.5 in (1 967 mm)	80.8 in (2 051 mm)	80.4 in (2 043 mm)
Operating load – ISO Deflected Tires	19,470 lb (8 832 kg)	19,594 lb (8 888 kg)	19,228 lb (8 722 kg)
Maximum material density – ISO Deflected Tires	3,709 lb/yd³ (2 201 kg/m³)	3,842 lb/yd³ (2 280 kg/m³)	3,077 lb/yd³ (1 826 kg/m³)
Tipping load – ISO Deflected Tires:			
Straight	49,094 lb (22 269 kg)	49,411 lb (22 412 kg)	48,672 lb (22 077 kg)
40° turn	38,940 lb (17 663 kg)	39,188 lb (17 775 kg)	38,457 lb (17 444 kg)
Lift capacity:			
Full height	33,076 lb (15 003 kg)	33,024 lb (14 979 kg)	32,710 lb (14 837 kg)
Ground	58,279 lb (26 435 kg)	58,807 lb (26 674 kg)	56,904 lb (25 811 kg)
Breakout force with tilt cylinder	56,245 lb (25 512 kg)	60,336 lb (27 368 kg)	49,934 lb (22 650 kg)
Maximum rollback:			
Ground	44°	45°	44°
Carry position	51°	51°	51°
@ Full height	65°	65°	65°
L. Dig depth	4.4 in (111 mm)	4.6 in (116 mm)	4.4 in (111 mm)
Maximum grading angle with bucket – back dragging	60°	60°	60°
Loader clearance circle	561.6 in (14 266 mm)	566.6 in (14 391 mm)	564.9 in (14 347 mm)

1121G XR	5.25 yd ³ GP (4.0 m ³) Bucket with Bolt-on Edge	5.1 yd ³ GP (3.9 m ³) Bucket with Teeth Only	6.25 yd ³ GP (4.8 m ³) Bucket with Bolt-on Edge
E. Operating height – fully raised with spillguard	252.2 in (6 406 mm)	252.2 in (6 406 mm)	258.4 in (6 564 mm)
F. Hinge pin height – fully raised	191.6 in (4 867 mm)	191.6 in (4 867 mm)	191.6 in (4 867 mm)
G. Overall length – bucket level on ground	371.2 in (9 428 mm)	378.3 in (9 609 mm)	377.2 in (9 580 mm)
Dump angle – fully raised	50°	50°	50°
H. Dump height – fully raised, 45° dump	146.6 in (3 724 mm)	141.9 in (3 606 mm)	142.8 in (3 626 mm)
J. Bucket reach – fully raised, 45° dump	47.2 in (1 199 mm)	52.5 in (1 333 mm)	51.8 in (1 315 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	92.0 in (2 338 mm)	95.5 in (2 427 mm)	95.2 in (2 417 mm)
Operating load – ISO Deflected Tires	17,469 lb (7 924 kg)	17,573 lb (7 971 kg)	17,205 lb (4 804 kg)
Maximum material density – ISO Deflected Tires	3,328 lb/yd³ (1 974 kg/m³)	3,446 lb/yd³ (2 045 kg/m³)	2,753 lb/yd³ (1 633 kg/m³)
Tipping load – ISO Deflected Tires:			
Straight	43,234 lb (19 611 kg)	43,505 lb (19 733 kg)	42,641 lb (19 342 kg)
40° turn	34,939 lb (15 848 kg)	35,146 lb (15 942 kg)	34,410 lb (15 608 kg)
Lift capacity:			
Full height	31,599 lb (14 333 kg)	31,564 lb (14 317 kg)	31,251 lb (14 175 kg)
Ground	48,983 lb (22 218 kg)	49,384 lb (22 400 kg)	47,783 lb (21 674 kg)
Breakout force with tilt cylinder	56,776 lb (25 753 kg)	60,916 lb (27 631 kg)	50,409 lb (22 865 kg)
Maximum rollback:			
Ground	42°	42°	42°
Carry position	49°	49°	49°
@ Full height	66°	66°	66°
L. Dig depth	4.4 in (111 mm)	4.6 in (116 mm)	4.4 in (111 mm)
Maximum grading angle with bucket – back dragging	63°	62°	62°
Loader clearance circle	577.6 in (14 671 mm)	583.1 in (14 810 mm)	581.3 in (14 765 mm)

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PERFORMANCE SPECS	
1121G Z-Bar*	6.1 yd³ GP (4.7 m³) Bucket with Teeth Only
Operating weight	61,646 lb (27 962 kg)
SAE bucket capacity – struck Heaped	5.25 yd³ (4.01 m³) 6.10 yd³ (4.66 m³)
Bucket width – outside	126.9 in (3 223 mm)
Bucket weight	4,937 lb (2 240 kg)
E. Operating height – fully raised with spillguard	242.0 in (6 147 mm)
F. Hinge pin height – fully raised	175.2 in (4 449 mm)
G. Overall length – bucket level on ground	368.3 in (9 354 mm)
Dump angle – fully raised	50°
H. Dump height – fully raised, 45° dump	121.7 in (3 090 mm)
J. Bucket reach – fully raised, 45° dump	55.4 in (1 406 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	83.5 in (2 121 mm)
Operating load – ISO Deflected Tires	19,347 lb (8 775 kg)
Maximum material density – ISO Deflected Tires	3,172 lb/yd³ (1 882 kg/m³)
Tipping load – ISO Deflected Tires: Straight 40° turn	48,974 lb (22 214 kg) 38,693 lb (17 551 kg)
Lift capacity: Full height Ground	32,662 lb (14 815 kg) 57,397 lb (26 035 kg)
Breakout force with tilt cylinder	53,151 lb (24 109 kg)
Maximum rollback: Ground Carry position @ Full height	45° 51° 65°
L. Dig depth	4.6 in (116 mm)
Maximum grading angle with bucket – back dragging	61°
Loader clearance circle	569.9 in (14 475 mm)

1121G XR	6.1 yd3 GP (4.7 m3) Bucket with Teeth Only
Operating weight	63,439 lb (28 776 kg)
E. Operating height – fully raised with spillguard	258.4 in (6 564 mm)
F. Hinge pin height – fully raised	191.6 in (4 867 mm)
G. Overall length – bucket level on ground	384.3 in (9 761 mm)
Dump angle – fully raised	50°
H. Dump height – fully raised, 45° dump	138.1 in (3 508 mm)
J. Bucket reach – fully raised, 45° dump	57.1 in (1 449 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	98.5 in (2 502 mm)
Operating load – ISO Deflected Tires	17,302 lb (7 848 kg)
Maximum material density – ISO Deflected Tires	2,836 lb/yd³ (1 683 kg/m³)
Tipping load – ISO Deflected Tires: Straight 40° turn	42,899 lb (19 458 kg) 34,605 lb (15 696 kg)
Lift capacity: Full height Ground	31,218 lb (14 160 kg) 48,157 lb (21 844 kg)
Breakout force with tilt cylinder	53,667 lb (24 343 kg)
Maximum rollback: Ground Carry position @ Full height	42° 49° 66°
L. Dig depth	4.6 in (116 mm)
Maximum grading angle with bucket – back dragging	62°
Loader clearance circle	586.8 in (14 906 mm)
NOTE: *7-Bar performance data shown w/ standard counterweight	

NOTE: *Z-Bar performance data shown w/ standard counterweight.

Performance data unit equipped with 26.5-R25 L3 Radial tires, ROPS cab w/ heater and A/C, standard counterweight, full fuel and 165 lb (75 kg) operator.

Specifications per SAE J732, J1234, J695, J742, and J818.

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STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

ROPS/FOPS cab structure See page 1

ENGINE

Case/FPT F2CFE614F

Tier 4 Final certified

Selectable work modes:

Maximum power

Auto power

Standard power

Economy power

Automatic shutdown - idle reduction device

Turbocharger

Charge air cooling

Automatic fan belt tensioner

Integral engine oil cooling

Fuel filter with water trap

Dual-element dry-type air cleaner

Hydraulic-driven cooling fan

Air-cooled radiator

Rear-mounted cooling module

Common rail electronic fuel injection

LOADER

See page 2

DRIVETRAIN

4-wheel drive

4F/3R Selectable autoshift/manual shift transmission

Electronic Control Module – programmable, computer controlled proportional shifting with programmable gear selection

Onboard diagnostics

Heavy Duty Axles:

With locking differential on front axle, open differential on rear axle

Single lever electronic shift control

F/N/R switch in loader control handle

Downshift button

Torque converter

Outboard planetary axles

Transmission oil cooler

Brake pedal transmission disconnect

Hydraulic wet disc brakes

Spring-applied hydraulic release

parking brake

Limp-Home Mode

Greasable rear axle trunnion

HYDRAULICS

Electro-hydraulic (EH) joystick loader control

Low-effort steering

Hydraulic driven fan

8 Diagnostic quick couplers

Split flange hydraulic connections -

1 inch or greater

Hydraulic oil cooler

ELECTRICAL

120 amp alternator and voltage regulator

Battery isolator/electrical disconnect

(2) 900 CCA 12-volt batteries

Electric starter

Lights:

Front and rear halogen flood lights

2 Front driving headlights - high/low beam

2 Front flood

2 Rear flood

2 LED stop and tail lights

Front and rear turn signal/flash

Key start/stop switch

Centrally located fuse box with all electrical

circuits protected

Backup alarm

Remote jump posts

OTHER

Electric hood lift

Front and rear fenders

Standard counterweight

Drawbar hitch

Articulation locking bar

Lift arm locking bar

Lift and tie-down points - front/rear

Backup alarm

Remote drain points

3-piece rims

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription

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OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Cloth-covered heated air-suspension seat Leather trimmed heated air seat with

active suspension

Cloth mechanical suspension seat

3 in (76 mm) seatbelt

Sound Shield noise suppression package

Bluetooth radio, 12V AM/FM with

auxiliary input

Radio-ready - 12 or 24-volt with auxiliary power - 12-volt

Cab convenience package:

Rear sun shade, interior mirror, under the seat drawer, coat hook, 12V accessory port, and an ash tray

LED rotating beacon

Joystick steering

External rear view mirrors

Rear view camera

LED Front and Rear work lights

Extra front-facing LED work lights

LED Light packages

DRIVETRAIN

Special application axles with locking

front differential

Axle oscillation stops

Cold weather package:

Engine block heater

Fuel heater

Hydraulic oil cooler bypass

Low temperature hydraulic oil

Grid heater

Ejector type pre-cleaner

HYDRAULICS

Auxiliary hydraulics

Ride Control

Secondary steering

3- or 4-spool loader valves with 2- or 3-lever

loader control

Variable speed hydraulic reversing fan

LOADER

Extended reach XR

Attachment auxiliary hydraulics

Buckets - see pages 4 and 5

TIRES

26.5 x 25 L3 Bias

26.5-R25 L3 Radial

26.5 x 25 L5 Bias

26.5-R25 L5 Radial

OTHER

Special paint

Full coverage fenders

Tool box

Fire extinguisher

Side guards for rear frame

License plate brackets, front and rear

12 mph (20 kph) maximum speed control

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SAFETY™ 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.

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