

# SKID STEER LOADER

# CASE

CONSTRUCTION

SINCE 1842.

## SR200B

### ENGINE

Brand	FPT
Model	F5CE5454G*A001
Type	4-stroke, turbocharged, Tier 3 certified
Cylinders	4
Bore x Stroke	99 x 104 mm (3.9 x 4.1")
Displacement	3,195 cm <sup>3</sup> (195 in <sup>3</sup> )
Fuel injection	Direct
Fuel	Diesel
Fuel filter	In-line filter
Air inlet	Turbocharged with external EGR
Cooling system	Liquid
Motor speed (rpm)	
High - no load	2,750 ± 75
Rated - full load	2,500
Low - no load	1,075 ± 75
Power at 2,500 rpm	
Gross SAE J1349	74 hp (55 kW)
Net SAE J1349	68 hp (51 kW)
Maximum torque at 1,400 rpm	275 N.m (203 lbf.ft)

### ENGINE COOLING SYSTEM

Radiator	
Core type	Fully aluminum
Core area	0.26 m <sup>2</sup> (403 in <sup>2</sup> )
Rows of tubes	43
Pressure on the lid	1.1 ± 0.1 bar (16 ± 2 psi)
Fan	
Diameter	480 mm (1' 6.9")
Ratio	0.96:1
Water pump	
Type	Centrifuge
Flow	110 l/min (29 gpm)
Engine lubrication	
Pump Operational Angles	
Side by side	45°
Raised bucket	35°
Lowered bucket	45°
Oil filtration	Full flow cartridge

### POWERTRAIN

Drive Pump - Mechanical	
Pump / motor ratio	1:1
Displacement	46 cm <sup>3</sup> (2.81 in <sup>3</sup> )
Pump flow rate with motor at rated rotation	111 l/min (29.4 gpm)
Charging pressure	25 bar (363 psi)
System relief pressure	360 bar (5,220 psi)
Control	Mechanical
Drive pump - Electrohydraulic (EH)	
Pump / motor ratio	1:1
Displacement	45 cm <sup>3</sup> (2.75 in <sup>3</sup> )
Pump flow rate with motor at rated rotation	109 l/min (28.8 gpm)
Charging pressure	25 bar (363 psi)
System relief pressure	360 bar (5,220 psi)
Control	Electrohydraulic
Traction engines	
Maximum displacement	470 cm <sup>3</sup> (28.7 in <sup>3</sup> )
Speed at rated motor rotation	241 rpm
High speed - optional	355 rpm
Torque at full flow and relief pressure	2,694 N.m (275 kgf.m)
Displacement speed (tire 10 x 16.5)	
Low	10.9 km/h (6.8 mph)
High (optional)	15.9 km/h (9.9 mph)
Final reduction	Chain drive with single reduction
Drive chain	
Size	ASA #100HS
Tensile strength	133.4 kN (30,000 lbf)
Axles	
Maximum torque at full flow and relief pressure	8,077 N.m (5,957 lbf.ft)
Diameter	61.9 mm (2.44")
Length	399.0 mm (1' 3.7")
Parking break	
Type	Spring applied, hydraulic disc release
Actuation	Application of the parking brakes by actuating the brake knob on the hand control or on the instrument panel, by raising the safety bar of the operator's seat, when the operator rises from the seat or by switching off the engine

### HYDRAULIC SYSTEM

Standard pump	
Type	Gear pump
Displacement	
Standard	34.1 cm <sup>3</sup> (2.08 in <sup>3</sup> )
Optional High Flow	12.5 cm <sup>3</sup> (0.76 in <sup>3</sup> )
Pump flow at rated motor rotation of	85 l/min (22.5 gpm)
Flow rate with optional High flow rated motor rotation	116 l/min (30.7 gpm)
Skid Steer control valve	
3 spools / Open Center / In-line	
Relief pressure	210 bar (3,046 psi)
Relief pressures	
Arm lift	225 bar (3,263 psi)
Bucket discharge	260 bar (3,771 psi)
Bucket retraction	80 bar (1,160 psi)
Hydraulic oil cooler	
Flaps numbers	3.94 per centimeter
Number of tubes	9
Area	887 cm <sup>2</sup> (137.5 in <sup>2</sup> )

INSTRUMENT PANEL

Indicators	
Text indicators Hour meter, engine rotation, engine cooling fluid temperature, or hydraulic oil temperature	
LCD bar chart for hydraulic oil temperature, engine cooler temperature, and fuel level in fuel tank	
Warning lights with alarms	
Immediate stop	
Motor malfunction	
Hydraulic system malfunction	
Malfunction of the electronic system	
Indicator lights	
Warning to lower the security bar	
Parking brake indicator activated	
Engine preheating light	

ELECTRIC SYSTEM

Alternator	120 A
Starting motor	3.2 kW
Battery	12 V, 950 CCA for cold cranking at -18 °C (0 °F)

OPERATOR ENVIRONMENT

ROPS / FOPS cab with side screens
Tilting ROPS / FOPS frame
Rear window with emergency exit
Instrument panel
Retractable seat belt
Manual throttle
Alarm package
Cabin roof lining
Solar roof
Cup holder
Power outlet
Foot rest
Storage tray
Ergonomic low effort manual controls
Padded safety bar with integrated armrest
Loader controls locking system
Electric parking brake control
Rubber mat for floor protection / cleaning

CYLINDERS

Lift cylinder	
Cylinder diameter	63.5 mm (2.5")
Stem diameter	44.5 mm (1.75")
Stroke	805 mm (2' 7.7")
Closed length	1,158 mm (3' 9.6")
Bucket cylinders	
Cylinder diameter	69.9 mm (2.75")
Stem diameter	34.9 mm (1.375")
Stroke	410 mm (1' 4.1")
Closed length	610 mm (2')

OPERATIONAL WEIGHTS

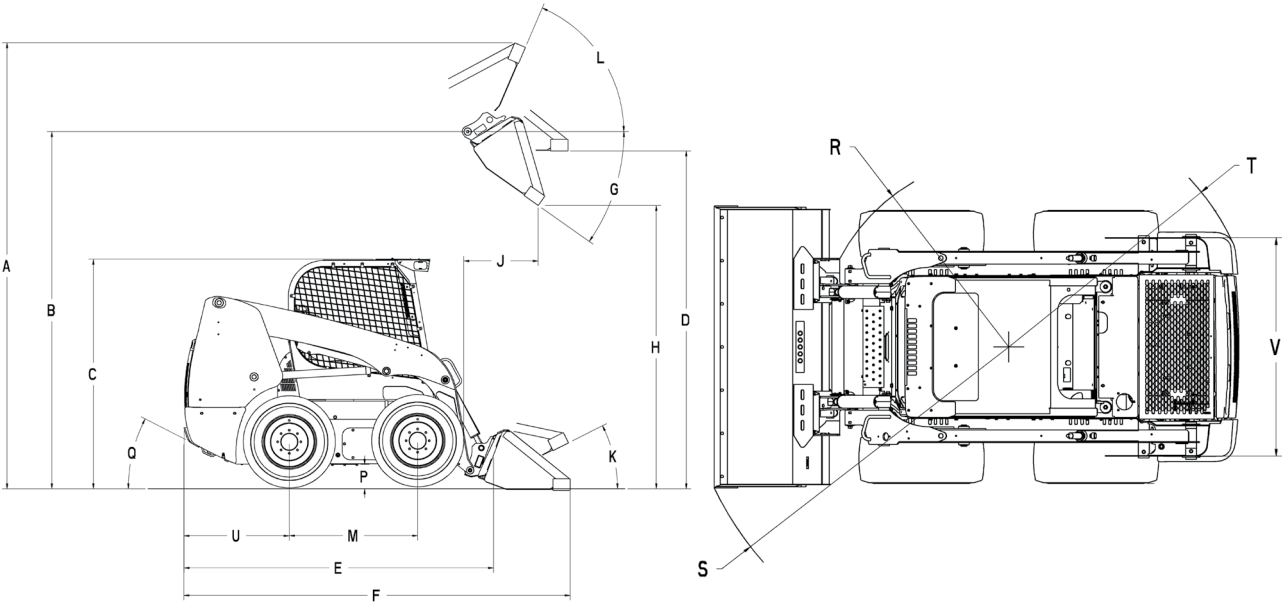
Operational weight	3,160 kg (6,967 lb)
Transport weight	3,025 kg (6,669 lb)
Cabin side windows	21.3 kg (46.9 lb)
Lexan®Door	34 kg (75 lb)
Glass door with windshield wiper	34 kg (75 lb)
Suspension seat	10 kg (22.0 lb)

SERVICE CAPACITIES

Fuel tank	75.7 l (20 gal)
Engine oil (with filter)	9.5 l (2 gal 2 ct)
Hydraulic system Storage	20 l (5 gal 1.1 ct)
Storage for chains (on each side)	26 l (6 gal 3.5 ct)

TIRE SELECTION

	Size	Overall width
Galaxy XD 2002 (10x16.5 Heavy Duty (64 OTW))	10x16.5	1,625 mm (5' 4")
TWEEL All Terrain (10X16.5 TWEEL 64 OTW)	10x16.5	1,625 mm (5' 4")
Galaxy XD 2002 (12x16.5 Heavy Duty (70 OTW))	12x16.5	1,778 mm (5' 10")
TWEEL All Terrain (12X16.5 TWEEL 70 OTW)	12x16.5	1,778 mm (5' 10")



## DIMENSIONS

<b>A.</b>	Total operational height	
	With foundry / excavation bucket	3.92 m (12' 10.3")
	With low profile extended bucket	4.15 m (13' 7.4")
	Height up to:	
<b>B.</b>	Bucket hinge pin	3.12 m (10' 2.8")
<b>C.</b>	Cabin top	2.00 m (6' 6.7")
<b>D.</b>	Leveled bucket bottom with fully raised loader arm	2.95 m (9' 8.1")
	Total length:	
<b>E.</b>	Without accessories, with coupling device	2.67 m (8' 9.1")
<b>F.</b>	With foundry / excavation bucket at ground level	3.29 m (10' 9.5")
	With low-profile extended bucket at ground level	3.53 m (11' 7.0")
<b>G.</b>	Dump angle at maximum height	39.6°
<b>H.</b>	Dump height - fully raised loader arm	
	With foundry / excavation bucket	2.50 m (8' 2.4")
	With low profile extended bucket	2.35 m (7' 8.5")
<b>J.</b>	Reach - fully raised loader arm	0.70 m (2' 3.6")
	Attachment maximum retraction angle:	
<b>K.</b>	Bucket at ground level	31°
<b>L.</b>	Bucket at maximum height	98.6°
<b>M.</b>	Wheelbase	1.13 m (3' 8.5")
<b>P.</b>	Ground clearance (bottom of protection plate)	0.20 m (7.9")
<b>Q.</b>	Output angle	25°
	Front turning radius:	
<b>R.</b>	Without the bucket	1.31 m (4' 3.6")
<b>S.</b>	With foundry / excavation bucket at ground level	2.03 m (6' 7.9")
	With low-profile extended bucket at ground level	2.24 m (7' 4.2")
<b>T.</b>	Rear turning radius	1.60 m (5' 3")
<b>U.</b>	Rear axle to bumper	0.92 m (3' 0.2")
<b>V.</b>	Machine gauge, measure between the wheel centers	1.45 m (4' 9.1")

## SPECIFICATIONS

Operational load	905 kg (2,000 lb)
Dump load	1,814 kg (4,000 lb)
Tear force	
Lifting arm	20.3 kN (4,564 lbf)
Bucket	32.3 kN (7,261 lbf)
Cycle times (in seconds)	
To raise arms	3.6
To lower arms	1.8
To unload attachment	2.2
To retract attachment	1.7

## OPTIONAL BUCKETS

Type	Width m (in)	Weight kg (lb)	Heaped capacity m³ (yd³)
Foundry / excavation	1,83 (72)	190 (419)	0,46 (0,60)
	1,68 (66)	214 (472)	0,45 (0,59)
Extended low profile	1,83 (72)	232 (511)	0,50 (0,65)
	1,98 (78)	245 (540)	0,54 (0,71)
	2,13 (84)	262 (578)	0,58 (0,76)
Heavy Duty	1,83 (72)	230 (507)	0,40 (0,52)

## STANDARD EQUIPMENT

### Operator environment

ROPS / FOPS cab with side screens  
Tilting ROPS / FOPS frame  
Rear window with emergency exit  
Instrument panel  
Retractable seat belt  
Manual and foot throttle  
Alarm package  
Cabin roof lining  
Solar roof  
Cup holder  
Power outlet  
Foot rest  
Storage tray  
Ergonomic low effort manual controls  
Padded safety bar with integrated armrest  
Controls locking system of the loader  
Electric parking brake control  
Rubber mat for floor protection/ cleaning

### Loader

Loader arm radial design  
Mechanical device of attachment coupling  
Lift arm support beam of the loader

### Engine

FPT F5CE5454G\*A001  
Integrated oil cooling system of the engine  
Fuel filter with water separator  
Dual element air filter  
120 A alternator  
12V 950 CCA battery  
Glow plug  
Overlapped oil heat exchanger and radiator  
Spark-arresting silencers  
Maintenance free chain

### Power train

Hydrostatic four-wheel drive  
Servo controls  
ASA #100HS Drive chain  
SAHR parking disc brakes

### Hydraulic system

210 bar (3,046 psi) hydraulic system  
85 l/min (22.5 gpm)  
Hydraulic circuit pedal lock  
ISO flat face couplers mounted on loader arm  
Cancellation of auxiliary functions  
Operational blocking system of the loader  
Loader lift neutralizer  
Loader 3-spool control valve  
Heavy Duty oil heat exchanger  
Loader arm fluctuation position

### Others

Lockable maintenance access hood  
Single point daily maintenance  
Halogen lights, 2 frontal, 2 lateral, 2 rear  
Rear lights  
Remote oil drain  
2 speed drive

## OPTIONAL EQUIPMENT

### Operator environment

Suspension seat Deluxe coated with special fabric, with lumbar support and heating system  
Retractable seat belt  
Internal mirror  
Radio  
Air conditioning and heating  
Door for demolition purposes  
Front auxiliary electric control  
Front glass door with windshield wiper and washer  
Sliding side windows

### Loader

*Ride Control*  
Attachment coupling hydraulic device  
One-way hydraulic self-leveling (climb)  
Electrohydraulic controls (EH)

### Hydraulic system

High flow hydraulic system (*High Flow*)  
of 210 bar (3,046 psi) – 116 l/min (30.7 gpm)  
Crankcase drain pipe fittings

### Engine

Engine block heater  
Battery disconnect key

### Others

Deluxe Dashboard  
Headlights for highway traffic  
Giroflex  
Lifting hooks  
Special paint  
Stickers  
Factory installed tires - refer to page 2  
Buckets - refer to page 3  
Bolt-On bucket cutting blades  
Forks to 1.22 m (48")



Fleet management and monitoring system by satellite or cell phone tracking.

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