SKID STEER LOADER



SINCE 1842.

SR220B

ENGINE	
Brand	CASE/FPT
Model	F5C E5454B*A005
Type 4-stroke, tu	rbocharged, Tier 3 certified
Cylinders	4
Bore x Stroke	99 x 104 mm (3.9 x 4.1")
Displacement	3,200 cm ³ (195 in ³)
Fuel injection	Direct
Fuel	Diese
Fuel filter	In-line filter
Air inlet Turbo	charged with external EGF
Cooling system	Liquic
Motor speed (rpm)	
High - no load	$2,675 \pm 75$
Rated - full load	2,500
Low - no load	$1,075 \pm 75$
Power at 2,500 rpm	
Gross SAE J1995	82 hp (61 kW)
Net SAE J1349	76 hp (57 kW)
Maximum torque at 1,40	0 rpm 305 N.m (225 lbf.ft)

ENGINE COOLING SYSTEM

Radiator	
Core type	Fully aluminum
Core area	0.266 m ²
Rows of tubes	44
Pressure on the lid	1.1 ± 0.1 bar $(16 \pm 2 \text{ psi})$
Fan	
Diameter	518 mm (20.4")
Ratio	0.96:1
Water pump	
Type	Centrifuge
Flow	110 l/min (29 gpm)
Engine lubrication	
Pump	Rotor pump with sump pan
depth, plate co	oler and pressurized nozzles
	under the piston

Raised bucket	35°
Lowered bucket	45°
Oil filtration Full fl	ow cartridge, disposable
POWER TRAIN	
Drive Pump - Mechanical	
Pump / motor ratio	1:1
Displacement	46 cm ³ (2.81 in ³)
Pump flow rate with	of 111 1/coin (00 1 corns)
motor at rated rotation	(
Charging pressure	24.5 bar (360 psi)
System relief pressure Servo Control	360 bar (5,220 psi)
	mechanical
Drive pump - Electrohydra	· /
Pump / motor ratio	1:1
Displacement	45 cm³ (2.75 in³)
Pump flow rate with mo	
at rated rotation of	109 l/min (28.8 gpm)
Charging pressure	25 bar (363 psi)
System relief pressure Control	360 bar (5,220 psi)
	Electrohydraulic
Traction engines	470 (00 00 : 2)
Maximum displacement	
Optional displacement -	
High speed	282 cm³ (17.21 in³)
Speed at rated motor rotation	241 rpm
	241 rpm rotation 355 rpm
Speed at optional high r Torque at full flow and	otation 355 rpm
relief pressure	2,694 N.m (1,987 lbf.ft)
•	2,094 10.111 (1,907 101.11)
Displacement speed	11 2 km/h (7 0 mmh)
Low	11.3 km/h (7.0 mph)
High (optional)	16.9 km/h (10.5 mph)
	rive with single reduction
Drive chain	404 "100
Size	ASA #100
Tensile strength	133.4 kN (30,000 lbf)

Pump operational angles Side by side

Axles	
Maximum torque at fu	all flow
and relief pressure	8,975 N.m (6,620 lbf.ft)
Diameter	62 mm (2.44")
Length	396 mm (15.6")
Parking break	
Type	Spring applied, hydraulic
	disc release
Actuation	Application of the parking
brakes by actuating t	he brake knob on the hand
control or on the i	nstrument panel, by raising
the safety bar of the	e operator's seat, when the

operator rises from the seat or by switching off

the engine

HYDRAULIC SYSTEM

45°

Standard pump	
Type	Gear pump
Displacement	
Standard	34.1 cm³ (2.08 in³)
Optional High Flow	20.4 cm ³ (1.24 in ³)
Pump flow at	
rated motor rotation	85 l/min (22.5 gpm)
Flow with optional High F	low with motor at
rated motor rotation	142.5 l/min (37.6 gpm)
Skid Steer control valve	
3 spools / Open Center	r / In-line
Relief pressure	210 bar (3,046 psi)
Relief pressures	
Arm lift	225 bar (3,263 psi)
Bucket discharge	260 bar (3,770 psi)
Bucket retraction	80 bar (1,160 psi)
Hydraulic oil cooler	
Flaps numbers	3.94 per centimeter
Number of tubes	11
_ Area	843 cm ² (130.7 in ²)
Hydraulic filter	6 microns / Threaded

INSTRUMENT PANEL

Indicators

Digital hour meter

LCD fuel level bar graph with low level alarm

Warning lights with alarms

High engine coolant temperature

Low engine oil pressure

Engine malfunction

Low hydraulic charging pressure

Hydraulic oil filter restriction

High hydraulic oil temperature

Alert alarms

Low battery voltage (including indicator light)

Indicator lights

Engine pre-heating

Parking break

Notice to place the safety bar

ELECTRIC SYSTEM

Alternator	120 A
Starting motor	3.2 kW
Battery	12 V, low maintenance, 925 CCA for cold cranking at -18 °C (0 °F)

OPERATOR ENVIRONMENT

OI EINAI OIT EITTII TOITIILEITI
ROPS / FOPS cab with side screens
Tilting ROPS / FOPS frame
Rear window with emergency exit
Instrument panel
51 mm retractable seat belt (2")
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
Suspension vinyl seat

CYLINDERS

Lift cylinder	
Cylinder diameter	63.5 mm (2.5")
Stem diameter	44.5 mm (1.75")
Stroke	817.9 mm (32.2")
Closed length	1,158.0 mm (45.6")
Bucket cylinders	
Cylinder diameter	76.2 mm (3.0")
Stem diameter	38.1 mm (1.5")
Stroke	410.0 mm (16.1")
Closed length	610.0 mm (24")

OPERATIONAL WEIGHTS

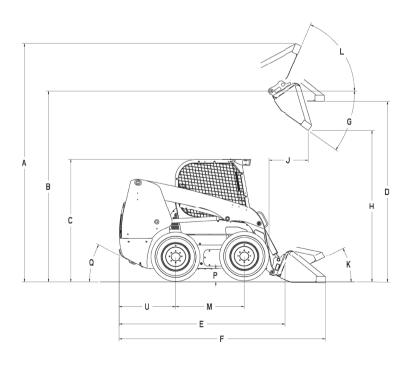
Operational weight	3,350 kg (7,400 lb)
Transport weight	3,200 kg (7,065 lb)
Cab side windows	21.3 kg (46.9 lb)
Lexan®Door	34 kg (75 lb)
Glass door with windshield v	wiper 34 kg (75 lb)
Suspension seat	10 kg (22.0 lb)

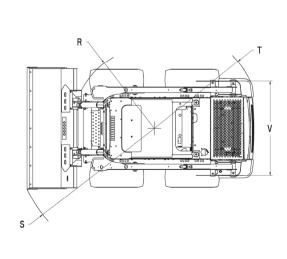
SERVICE CAPACITIES

Fuel tank	96.5 I (25.5 gal)
Engine oil (with filter)	9.5 I (10.0 qt)
Hydraulic system Storage	26.5 l (7 gal)
Storage for chains (on each side)	
	22.2 I (23.5 qt)

TIRE SELECTION

	Size	Overall width
Galaxy XD 2002 (12x16.5 Heavy Duty (70 OTW))	12x16.5	1,785 mm (5' 10.3")
TWEEL All Terrain (12X16.5 TWEEL 70 OTW)	12x16.5	1,785 mm (5' 10.3")
Galaxy Beef Baby III (14x17.5 Premium (76 OTW))	14x17.5	1,930 mm (6' 4")





DIMENSIONS

DIMENSIONS	
A. Total operational height	
With foundry / excavation bucket	4.0 m (156.3")
With low profile extended bucket	4.2 m (165.3")
Height up to:	0.0 (1.05%)
B. Bucket hinge pinC. Cabin top	3.2 m (125") 2.0 m (78.8")
D. Leveled bucket bottom with fully raised loader arm	3.0 m (118")
Total length:	5.5 m (115)
E. Without accessories, with coupling device	3.0 m (117.4")
F. With foundry / excavation bucket at ground level	3.6 m (142.2")
With low-profile extended bucket at ground level	3.8 m (151.3°)
G. Dump angle at maximum height	38.1°
H. Dump height - fully raised loader arm	
With foundry / excavation bucket	2.6 m (100.9")
With low profile extended bucket	2.4 m (95.2")
J. Reach - fully raised loader arm	0.7 m (26.7")
Attachment maximum retraction angle:	
K. Bucket at ground level	30.7°
L. Bucket at maximum height	99.7°
M.Wheelbase	1.3 m (52")
P. Ground clearance (bottom of protection plate)	0.2 m (8")
Q. Output angle	23.5°
Front turning radius:	
R. Without the bucket	1.4 m (55.1")
S. With foundry / excavation bucket at ground level	2.1 m (83.5")
With low-profile extended bucket at ground level	2.3 m (91.9")
T. Rear turning radius	1.8 m (70.4")
U. Rear axle to bumper	1.0 m (40.7")
V. Machine gauge, measure between the wheel centers	1.4 m (56.9")
SPECIFICATIONS	
Operational weight	1,000 kg (2,200 lb)
with optional counterweight	1,089 kg (2,400 lb)
Dump load	2,000 kg (4,400 lb)
with optional counterweight	2,178 kg (4,800 lb)
Tear force	
Lifting arm	24.4 kN (5,490 lbf)
Bucket	38.7 kN (8,700 lbf)
Cycle times (in seconds)	
To raise arms	3.7
To lower arms To unload attachment	1.9 2.7
To retract attachment	2.7
10 Totalet attachment	2.0

OPTIONAL BUCKETS

Туре	Width m (in)	Weight kg (lb)	Heaped capacity m³ (yd³)
Foundry / excavation	1,83 (72)	190 (420)	0,46 (0,60)
Extended low profile	1,83 (72)	232 (510)	0,50 (0,65)
	1,98 (78)	245 (540)	0,54 (0,71)
	2,13 (84)	262 (575)	0,58 (0,76)
Heavy Duty	1,83 (72)	230 (510)	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

51 mm retractable seat belt (2")

Manual and foot throttle

Alarm package

Cabin roof lining Suspension vinyl seat

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

Loader

Loader arm radial design

Mechanical device of attachment coupling Lift arm support beam of the loader

Engine

CASE/FPT F5C E5454B*A005 diesel Overlapped oil heat exchanger and radiador

Glow plug

Integrated oil cooling system of the engine

Fuel filter with water separator

Dual element air filter

120 A alternator

12V 925 CCA battery

Power train

Hydrostatic four-wheel drive

Servo controls

ASA #100HS Drive chain

SAHR parking disc brakes

Hydraulic system

210 bar auxiliary hydraulic system

(3,046 psi) - 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

Heavy Duty rear door

OPTIONAL EQUIPMENT

Operator environment

Suspension seat Deluxe coated with special fabric, with lumbar support and heating system

Internal mirror

Front auxiliary electric control

Front glass door with windshield wiper and

washer Sliding side windows

76 mm retractable seat belt (3")

Air conditioning and heating

Bluetooth radio

Door for demolition purposes

Loader

Ride Control

Electrohydraulic controls (EH)

Attachment coupling hydraulic device One-way hydraulic self-leveling (climb)

Hydraulic system

High flow hydraulic system (High Flow) of 210 bar (3,046 psi) - 142.5 l/min (37.6 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 1.07 m (42") and 1.22 m (48") pallets

Steel tracked

Additional counterweights



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

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CCEIO049 - 01/2021 - Printed in Brazil

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