





Model	
Emissions Certification	

Non-regulated/Tier 3 Diesel, Turbo - Direct Injection Type Cylinders Bore/Stroke 3.9 x 4.1 in (99 x 104 mm)

F5C E5454 C* A003

1075 +/- 75

195 in³ (3.2 L) Displacement Fuel injection Direct Fuel #2 Diesel Fuel filter In-line strainer Oil filtration Spin-on/full-flow

Air intake Turbocharged w/o waste gate Cooling Liquid Engine speeds **RPM** High idle - no load 2675 +/- 75 Rated - full load 2500

Horsepower @ 2500 RPM - SAE J1349: 90 hp (67 kW) Gross

84 hp (63 kW) Net Peak torque @ 1400 RPM 251 lb·ft (340 N·m)

Radiator:

Core type All aluminum 412 in² (0.266 m²) Core size area Rows of tubes x columns 44 x 4 16 +/- 2 psi Cap pressure (1.10 +/- 0.14 bar)

Fan:

Diameter 20.4 in (518 mm) Ratio 0.96:1

Water pump:

Low idle

Style Centrifugal Flow 29 gpm (110 L/min)

Engine lubrication pump:

Rotor pump w/ deep sump pan, plate cooler and pressurized under-piston nozzles

Pump operating angle ratings:

Side to side 45° Bucket up 35° **Bucket Down** 45°

DRIVETRAIN

Drive pump controls Electro-hydraulic Pump to engine ratio Displacement 2.81 in³ (46 cm³)

Flow @ rated engine RPM:

@ 97% efficiency 29.4 gpm (111 L/min)

Charge pressure

360+/- 18 psi (24.5 +/- 0.5 bar)

5,220 psi (261 bar) System relief pressure

Drive motors:

Max. displacement 2.75 in3 (45 cm3) Optional high speed 34.6 in³ (131 cm³)

Speed @ high idle engine RPM

100% efficiency @ rated engine RPM 103 Speed @ optional high speed RPM 156 Torque @ max. displacement and relief pressure -calculated, 5,003 psi (345 bar):

4,654 lb·ft (6 310 N·m)

Travel speed:

5.1 mph (8.2 kph) Low range High range - optional 7.6 mph (12.2 kph)

Final drive Planetary reduction

Parking brake:

Spring-applied, Type hydraulic release disc Engagement Depress on/off brake button

on handle or instrument panel, raise seat bar, get off seat or stop engine

ELECTRICAL

Alternator 120 amp Starter 4.29 hp (3.2 kW) Battery 12-volt low-maintenance 925 cold-cranking amps @ 0° F (-18° C°)

OPERATOR ENVIRONMENT

Enclosed Cab w/ Heater and AC; Fully sealed and pressurized - FSP; Glass door w/ wiper and washer; Sliding side windows - removable; Heater and air conditioner; AM/FM radio w/ 2 speakers; Keyless start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Deluxe cloth, air suspension seat, w/ 2 in (51 mm) retractable 3 point lap seat belt w/ heater and lumbar support; Hand and foot throttles; Alarm package – back-up and horn; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator's compartment floor cleanout; Proportional auxiliary hydraulic control - on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, Fuel level LCD bar graph w/ alarm, diagnostic features and security lockout.

Warning lights with alarms:

Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature: Critical system stop, Engine system, Hydraulic system, Electrical and diagnostic system.

Warning alarms:

Battery voltage - plus display; Oil service

Indicator light:

Engine preheat; Parking brake;

Seat bar reminder.

OPERATING WEIGHT

Operating weight	9,600 lb (4 355 kg)
Shipping weight	9,265 lb (4 200 kg)
Add-on weights: Side cab glass Lexan® door Glass door w/ wiper Suspension seat	47 lb (21.3 kg) 74 lb (33.6 kg) 134 lb (60.8 kg) 22 lb (10.0 kg)

HYDRAULICS

Standard equipment pump	type	Gear
Displacement:		
Standard aux.	2.08 in ³ (34.1	cm ³)
High-flow aux.	1.1 in ³ (18.3	3 cm ³)
Pump flow @ rated engine	RPM:	
@ 100% efficiency	22.5 gpm (85 l	_/min)

Optional high flow @ rated engine RPM:

@ 100% efficiency 12.1 gpm (46 L/min)

Loader control valve:

3 spool/Open center/Series Type 3,000 (+145/-0) psi (207 bar) Relief pressure

Port relief pressures: Loader raise

3,263 psi (225 bar) Bucket dump 3,770 psi (260 bar) 1,160 psi (80 bar) Bucket curl

Hvdraulic lines:

Tubing 37° JIC Flare Loop hoses SAE 100 R13

10 per inch (3.94 per cm)

1.75 in (44.5 mm)

32.2 in (817.9 mm)

45.6 in (1 158.0 mm)

Hydraulic oil cooler: Number of fins

Number of tubes Area 130.7 in² (843 cm²) Hydraulic filter 6 micron/Spin-on Lift cylinders: Bore diameter 2.75 in (69.85 mm)

Rod diameter Closed length

Stroke

Bucket cylinders: Bore diameter 3.0 in (76.2 mm) Rod diameter 1.5 in (38.1 mm) Stroke 16.14 in (410.0 mm) Closed length 24.0 in (610.0 mm)

SERVICE CAPACITIES

Fuel Tank	25.5 gal (96.5 L)
Engine oil w/ filter	10.0 qt (9.4 L)
Hydraulic system:	
Reservoir	7 gal (26.5 L)
Total	11.75 gal (44.5 L)

PERFORMANCE SPECS

Rated operating load:

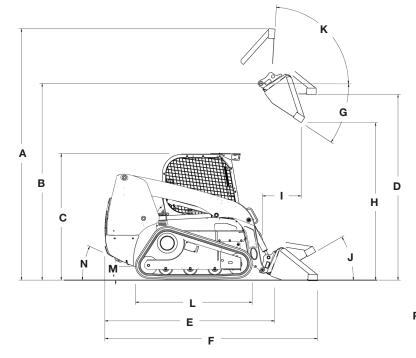
35% of tipping load 50% of tipping load 2,240 lb (1 018 kg) 3,200 lb (1 451 kg)

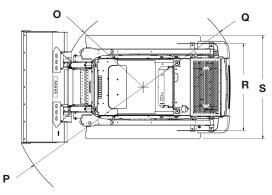
Tipping load 6,400 lb (2 902 kg)

Breakout forces - calculated @ 3,150 psi: 8,700 lb (38.7 kN) 7,760 lb (34.5 kN)

Bucket cylinder-tip Lift cylinders

Cycle times: Raise 4.5 sec Lower 2.7 sec Dump 2.7 sec 2.0 sec Roll back





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

DIN	MENSIONS	
A.	Overall operating height: with foundry/excavating bucket short lip with low profile/standard lip bucket with low profile extended/long lip bucket	157.8 in (4.01 m) 161.8 in (4.11 m) 166.8 in (4.24 m)
B. C.	ght to: Bucket hinge pin Top of ROPS Bottom of level bucket, fully raised	126.5 in (3.22 m) 80.4 in (2.04 m) 119.6 in (3.04 m)
E.	erall length: without attachment with coupler with foundry/excavating bucket on ground with low profile bucket with low profile extended bucket	117.4 in (2.98 m) 142.2 in (3.61 m) 146.2 in (3.71 m) 151.3 in (3.84 m)
	Dump angle Dump height: with foundry/excavating bucket short lip with low profile/standard lip bucket	38.1° 102.4 in (2.60 m) 99.9 in (2.54 m)
I.	Dump reach – max. height	21.6 in (0.55 m)
J. K.	ximum attachment rollback: Bucket on ground Bucket at full height	29.7° 99.7°
	Track on ground	64.5 in (1.60 m)
	Ground clearance – bottom of belly pan Angle of departure	9.5 in (0.24 m) 32.0°
Cle	arance circle: without bucket with 78 in (2.0 m) foundry/excavating bucket in carry position with 78 in (2.0 m) low profile bucket on ground with 78 in (2.0 m) extended low profile on ground	55.1 in (1.40 m) 85.5 in (2.17 m) 88.7 in (2.25 m) 93.0 in (2.36 m)
Q.	Clearance circle rear	70.4 in (1.79 m)
R.	Track width	58.3 in (1.48 m)
S.	Over the track width	76.0 in (1.93 m)

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TRACK SELECTION			
Туре	Area	Ground Pressure	Width to Outside of Track
15.7 in (400 mm)	2,038 in ² (13 120 cm ²)	4.2 psi (29 kPa)	74 in (1.88 m)
17.7 in (450 mm)	2,293 in ² (13 776 cm ²)	4.3 psi (29.7 kPa)	76 in (1.93 m)

OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	78 in (1.98 m)	440 lb (200 kg)	17.7 ft ³ (0.50 m ³)
Low Profile Extended	78 in (1.98 m)	540 lb (245 kg)	19.1 ft ³ (0.54 m ³)
	84 in (2.13 m)	607 lb (275 kg)	20.2 ft ³ (0.57 m ³)
Light Material	84 in (2.13 m)	540 lb (245 kg)	27.5 ft ³ (0.78 m ³)
Manure & Slurry	84 in (2.13 m)	545 lb (248 kg)	22.6 ft ³ (0.64 m ³)
Heavy-Duty	78 in (1.98 m)	530 lb (240 kg)	15.5 ft ³ (0.44 m ³)
	84 in (2.13 m)	758 lb (344 kg)	25.7 ft ³ (0.47 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

F5C E5454 C*A003 195 CID (3.2 L) Turbo Non-regulated

Tier 3

Turbocharged without waste gate fuel injection

Horsepower:

Gross: 90 hp (67 kW) Net: 84 hp (63 kW)

Peak torque 251 lb·ft (340 N·m)

120 amp alternator

Dual element air cleaner

Organic Acid Technology (OAT)

Anti-freeze solution to -34° F

Fuel tank - 25.5 gal (U.S.)

Over and under radiator and oil cooler

3-stack after cooler/radiator/oil cooler configuration

Glow plugs

Integral engine oil cooler

Fuel filter with water trap

1,000 CCA 12V battery

Master electrical disconnect

DRIVETRAIN

2-speed hydrostatic four wheel drive SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics:

@ 3,050 psi (210 bar) - 23.8 gpm (90.0 L/min)

6 micron oil filtration system

3-spool loader control valve

Auxiliary hydraulic disconnects, ISO flat-face - connect-under-pressure with case drain

Hydraulic circuit pedal lock

Auxiliary function lockout override Loader lift lockout override

Heavy-duty hydraulic oil cooler

Loader arm float position

Loader function lockout system

Hydraulic one-way self-leveling

Ride control

LOADER

Heavy duty hydraulic attachment coupler

Radial lift geometry

Loader lift arm support strut

SAE operating load: 3,400 lbs

Tipping load: 6,800 lbs

TRACKS

HiQual S-Wave Tracks

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood

Heavy duty front lights

Pre-wired for rotating beacon

Lockable service access hood

Single-point daily servicing

Rear tail lights

Remote oil drain

Remote oil and fuel filters

Block heater

Debris ingression sealing

Machine protection auto shutdown

Mounting points for add-on counterweights

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OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy with side screens Keyed start ignition

Ventilation system with integrated heater Electro-hydraulic controls:

For drive/steering, loader functions Switchable between H and ISO patterns Adjustable sensitivity of controls

Mechanical hand controls

Hand and foot controls:

Heavy duty rear door

Hand controls the loader drive function and foot controls the bucket and boom

Non suspension seat Suspension seat, vinyl Open cab interior trim package Demolition cab door with polycarbonate FOPS level 2

HYDRAULICS

High-flow auxiliary hydraulics - combined: @ 3,050 psi (210 bar) - 33.2 gpm (126 L/min)

Enhanced High-flow auxiliary hydraulics - EHF: @ 4,000 psi (276 bar) - 35.0 gpm (132.5 L/min)

Second auxiliary hydraulics

LOADER

Auxiliary front electric control Manual attachment coupler

OTHER

Language decals Factory-installed tires - see page 3 Buckets - see page 3 Bolt-on bucket cutting edges Bolt-on heavy-duty bucket spill guard Special paint Offsite service arrangement Telematics

FACTORY SUPPLIED ATTACHMENTS

Interior mirror Add-on counterweights Road lights Rotating beacon Four-corner LED strobe Bolt-on heavy-duty bucket teeth 48 in (1.22 m) pallet forks

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

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