

SR2706

SKID STEER LOADER

TIER 4 FINAL CERTIFIED



Model FPT F5B FL413 D*C001		
Emissions Certification		Tier 4 Final
Type	Diese	l, Turbo – Direct Injection
Cylinders		4
Bore/Stroke		3.9 x 4.3 in (99 x 110 mm)
Displacement		207 in ³ (3.4 L)
Fuel injection		Direct
Fuel		#2 Diesel
Fuel filter: Pre-filter Main filter		Beta (30) = 200/spin-on Beta (4) = 20/spin-on
Air intake		oocharged w/ waste gate and external cooled EGR
Exhaust aftertre	atment	Selective

	Catalytic Reduction - SCR
Cooling	Liquid
Engine speeds	RPM
High idle - no load	2500 +/- 25
Rated - full load	2500
Low idle	1150 +/- 25

Net	84 hp (63 kW)
Gross	90 hp (67 kW)
Horsepower @ 2500 RPM – SAE J	11349:

Peak torque @ 1400 RPM 282 lb·ft (383 N·m)

Radiator:

Aluminum bar and plate Core type Core size area 2.21 ft2 (0.206 m2) Rows of tubes 21 Cap pressure 16 +/- 2 psi (1.10 +/- 0.14 bar)

Fan:

Diameter 22 in (560 mm) Ratio 0.96:1 standard, 1.1:1 high flow

Water pump:

Style Centrifugal Flow 47.8 gpm (181 L/min)

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

Pump operating angle ratings:

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

LIFT GEOMETRY

Radial Lift

DRIVETRAIN

Drive pump controls Servo-assist mechanical 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 psi (24.5 bar) System relief pressure 5,220 psi (360 bar) Drive pump controls Electro-hydraulic Pump to engine ratio 2.75 in³ (45 cm³) Displacement Flow @ rated engine RPM: 28.8 gpm (109 L/min) @ 97% efficiency 362 psi (25 bar) Charge pressure System relief pressure 5,220 psi (360 bar) Drive motors: 28.7 in³ (470 cm³) Max. displacement Displacement: High speed 17.2 in³ (282 cm³) Motor RPM @ high idle and 97% efficiency: 2-speed Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar): 1,987 lb·ft (2 694 N·m) Travel speed: 7.0 mph (11.3 kph) Low range High range 10.5 mph (16.9 kph) Final drive Single-reduction chain drive Drive chain: Size ASA #100 Tensile strength 30,000 lb (133.4 kN) Torque @ max. displacement and 5,957 lb·ft (8 077 N·m) relief pressure Diameter 2.44 in (62 mm) Length 15.6 in (396 mm) Parking brake: Spring-applied, hydraulic Type release multiple disc. Depress on/off brake button

ELECTRICAL

Engagement

Alternator	160 amp	
Starter	4.29 hp (3.2 kW)	
Battery	12-volt low-maintenance	
1,000 cold-cranking amps @ 0° F (-18° C°)		

raise seat bar, get off seat or stop engine.

on handle or instrument panel,

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy w/ side screens; Keyed 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 throttle; Alarm package - back-up

and horn; Rearview mirror; 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, DEF Level, 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; Diesel Exhaust Fluid - DEF; Oil service.

Indicator light:

Engine preheat; Parking brake;

Seat bar reminder.

OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 72 in Low Profile bucket: full of fuel: 12 x 16.5 tires: 8,117 lb (3 681 kg) Shipping weight 7,773 lb (3 526 kg) Add-on weights: Side cab glass 47 lb (21.3 kg) 75 lb (34.0 kg) Polycarbonate cab door Glass cab door w/ wiper 75 lb (34.0 kg) Suspension seat 22 lb (10.0 kg) Additional counterweight 300 lb (136.0 kg)

HYDRAULICS

Implement pump type	Gear
Displacement:	
Standard aux.	2.23 in ³ (36.6 cm ³)
High-flow aux.	1.24 in ³ (20.4 cm ³)
Standard flow @ rated e	ngine RPM:
@ 100% efficiency	24.2 gpm (91.5 L/min)
Optional high-flow @ rat	ed engine RPM:
@ 100% efficiency	37.6 gpm (142.5 L/min)
Enhanced high-flow @ r	ated engine RPM:
@ 100% efficiency	35.0 gpm (132.5 L/min)
Loader control valve:	
Type 3 spool/op	en center/series - series
Relief pressure	3,046 psi (210 bar)
Port relief pressures:	
Loader raise	3,263 psi (225 bar)
Bucket curl	3,770 psi (260 bar)
Bucket dump	1,160 psi (80 bar)
Hydraulic lines:	
Tubing	37° JIC Flare
Loop hoses	SAE 100 R19

HYDRAULICS CONT.

Hydraulic oil cooler:

10 per inch (3.94 per cm) Number of fins Number of tube rows x columns 9 bar/plate Area 138.7 in² (890.0 cm²)

Hydraulic filter Beta (4) = 75/spin-on

Lift cylinders:

DIMENSIONS

Bore diameter 2.75 in (69.85 mm) Rod diameter 2.0 in (50.8 mm) Stroke 33.4 in (847.9 mm) Closed length 47.1 in (1 196 mm) Bucket cylinders:

Bore diameter 3.0 in (76.2 mm) Rod diameter 1.5 in (38.1 mm) Stroke 16.4 in (410 mm) 24.0 in (610 mm) Closed length

SERVICE CAPACITIES

Fuel tank	25.5 gal (96.5 L)
Engine oil w/ filter	8.9 at (8.5 L)

Hydraulic system:

Reservoir 6.0 gal (22.7 L) Total 11.9 gal (45.4 L) Chain tanks - per side 5.9 gal (22.2 L)

Diesel Exhaust Fluid (DEF) Tank 2.8 gal (10.7 L)

PERFORMANCE SPECS

Rated operating capacity - ROC*:

50% of tipping load 2,700 lb (1 225 kg) w/ additional counterweight 2,800 lb (1 270 kg)

Tipping load* 5,400 lb (2 450 kg)

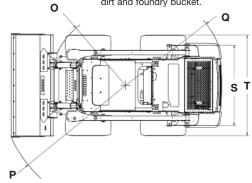
Breakout forces @ 3,150 psi (217 bar)*:

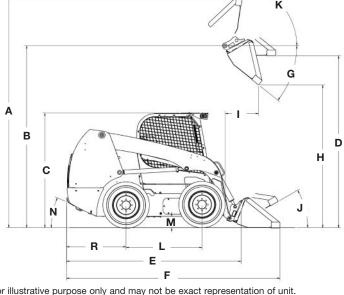
Bucket cylinders 8,677 lb (38.6 kN) Lift cylinders - tip limit 6,096 lb (27.1 kN)

Cycle times:

Raise 3.6 sec Lower 2.0 sec Dump 2.6 sec Roll back 2.0 sec

NOTE: *Measured using 72 in (1.83 m) dirt and foundry bucket.





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

A. Overall operating height:	
with foundry/excavating bucket	156.3 in (3.97 m)
with low profile bucket	160.3 in (4.07 m)
with low profile extended bucket	165.3 in (4.20 m)
Height to:	
B. Bucket hinge pin	125.1 in (3.18 m)
C. Top of ROPS	78.8 in (2.00 m)
D. Bottom of level bucket, fully raised	118.2 in (3.00 m)
Overall length:	
E. without attachment with coupler	118.7 in (3.01 m)
F. with foundry/excavating bucket on ground	143.9 in (3.66 m)
with low profile bucket	148.0 in (3.76 m)
with low profile extended bucket	153.0 in (3.89 m)
G. Maximum dump angle	38.1°
H. Dump height:	
with foundry/excavating bucket	100.9 in (2.56 m) @ 38.1°
with low profile bucket	98.3 in (2.50 m) @ 38.1°
	22.21 (2.52) 2.22 (2.52

in (3.01 m) in (3.66 m) in (3.76 m) in (3.89 m) 38.1° m) @ 38.1° m) @ 38.1° Dump reach at maximum height with low profile bucket 22.2 in (0.56 m) @ 38.1° Maximum attachment rollback: Bucket on ground 30.8° Bucket at full height 99.8° Wheelbase 52.0 in (1.32 m) M. Ground clearance - bottom of belly pan 8.0 in (0.20 m) Angle of departure 23.5° Clearance circle: without bucket 53.7 in (1.37 m) with 72 in (1.83 m) foundry/excavating bucket in carry position 83.5 in (2.12 m) with 72 in (1.83 m) low profile bucket on ground 87.2 in (2.22 m) with 72 in (1.83 m) extended low profile on ground 91.9 in (2.33 m) Clearance circle rear 71.2 in (1.81 m) Rear axle to bumper 42.4 in (1.08 m) Tread over gauge with spec tires 56.9 in (1.45 m) T. Over the tire width spec tires 69.8 in (1.77 m)

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OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	72 in (1.83 m)	420 lb (190 kg)	16.2 ft ³ (0.46 m ³)
	78 in (1.98 m)	440 lb (200 kg)	17.7 ft ³ (0.50 m ³)
Low Profile	72 in (1.83 m)	480 lb (218 kg)	14.8 ft ³ (0.42 m ³)
Low Profile Extended	72 in (1.83 m)	510 lb (232 kg)	17.7 ft ³ (0.50 m ³)
	78 in (1.98 m)	540 lb (245 kg)	19.1 ft ³ (0.54 m ³)
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft ³ (0.58 m ³)
Light Material	72 in (1.83 m)	475 lb (216 kg)	23.3 ft ³ (0.66 m ³)
	84 in (2.13 m)	540 lb (245 kg)	27.5 ft ³ (0.78 m ³)
Manure & Slurry	72 in (1.83 m)	480 lb (218 kg)	19.1 ft ³ (0.54 m ³)
Heavy-Duty	72 in (1.83 m)	510 lb (230 kg)	14.1 ft ³ (0.40 m ³)
	78 in (1.98 m)	530 lb (240 kg)	15.5 ft ³ (0.44 m ³)
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft ³ (0.48 m ³)
Heavy-Duty Extended with SmartFit Teeth	72 in (1.83 m)	667 lb (303 kg)	17.4 ft ³ (0.49 m ³)
	78 in (1.98 m)	697 lb (316 kg)	18.9 ft ³ (0.54 m ³)
	84 in (2.13 m)	728 lb (330 kg)	20.5 ft ³ (0.58 m ³)

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STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5B FL413 D*C001 207 CID (3.4 L) Turbo

Tier 4 Final Certified

Diesel Oxidation Catalyst (DOC) with Selective Catalytic Reduction (SCR) muffler

Charged Air Cooler (CAC)

High Pressure Common Rail (HPCR) fuel injection

Horsepower:

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

Peak torque: 282 lb·ft (383 N·m)

160 amp alternator

Dual element air cooler

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 pluas

Integral engine oil cooler

Fuel filter with water trap 1,000 CCA 12V battery Master electrical disconnect Jump start terminal

DRIVETRAIN

2-speed hydrostatic four wheel drive ASA #100HS drive chain SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics: @ 3,050 psi (210 bar) - 24.2 gpm (91.5 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

LOADER

Auxiliary front electric control Heavy duty hydraulic attachment coupler Radial lift geometry Loader lift arm support strut

12 X 16.5 Heavy duty

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood Pre-wired for rotating beacon

Lockable service access hood

Single-point daily service

Rear tail lights

Remote oil drain

Remote oil and fuel filters

Block heater

Debris ingression sealing

Mounting points for add-on counterweights

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Enclosed cab:

Fully sealed and pressurized - FSP Glass door with wiper and washer Sliding side windows - removable Heater and air conditioner AM/FM Bluetooth radio with 2 speakers Keyless start ignition

8 in Color LCD Display

Economy Mode (auto idle shutdown)

Auto Engine Protection Shutdown

3-point seat belt

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:

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

Suspension seat, vinyl

Demolition cab door with polycarbonate FOPS level 2

Ignition Timeout

Machine Settings User Access Levels Operator Security Codes

HYDRAULICS

High-flow auxiliary hydraulics - combined: @ 3,050 psi (210 bar) - 37.6 gpm (142.5 L/min)

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

Second auxiliary hydraulics Hydraulic one-way self-leveling Ride control

LOADER

Hydraulic attachment coupler

DRIVETRAIN

Creep Speed Mode

OTHER

Language decals Buckets - see page 3 Bolt-on bucket cutting edges Special paint Offsite service arrangement **Telematics**

FACTORY SUPPLIED ATTACHMENTS

Add-on counterweights Road lights Rotating beacon Four-corner LED strobe

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt Bolt-on heavy-duty bucket teeth

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