

SV340B

SKID STEER LOADER

TIER 4 FINAL CERTIFIED



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Model	FPT F5B FL413D*C001
Emissions Certif	ication Tier 4 Final
Type	Diesel, 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, high pressure common rail – HPCR
Fuel	#2 Diesel
Fuel filter: Pre-filter Main filter	Beta (30) = 200/spin-on Beta (4) = 20/spin-on
Air intake	Turbocharged w/ waste gate and external cooled EGR
Exhaust aftertrea	atment Selective Catalytic Reduction – SCR
Cooling	Liquid
Engine speeds	RPM

	Catalytic Reduction - SCR
Cooling	Liquid
Engine speeds	RPM
High idle - no load	2500 +/- 25
Rated - full load	2500
Low idle	1150 +/- 25
Horsepower @ 2500	RPM - SAE J1349:

noisepowei @ 2300 hrivi -	SAE 31349.
Gross	90 hp (67 kW)
Net	84 hp (63 kW)
Deals towns @ 1400 DDM	000 lb # (000 N)

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

Radiator:	
Core type	Aluminum bar and plate
Core size area	2.21 ft ² (0.206 m ²)
Rows of tubes	21
Cap pressure	16 +/- 2 psi
	(1.10 +/- 0.14 bar)
Fon:	

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Diameter	22 in (560 mm)
Ratio	1.1:1

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

LIFT GEOMETRY

Vertical Lift

DRIVETRAIN

Drive pump controls Pump to engine ratio Displacement Flow @ rated engine F @ 97% efficiency Charge pressure System relief pressure	29.4 gpm (111 L/min) 360 psi (24.5 bar) 5,220 psi (360 bar)	
Drive pump controls Pump to engine ratio	Electro-hydraulic 1:1	
Displacement	2.75 in ³ (45 cm ³)	
Flow @ rated engine R		
@ 97% efficiency	28.8 gpm (109 L/min)	
Charge pressure	362 psi (25 bar)	
System relief pressure	5,220 psi (360 bar)	
Drive motors: Max. displacement Displacement:	28.7 in ³ (470 cm ³)	
High speed	17.2 in ³ (282 cm ³)	
Motor RPM @ high idle and 97% efficiency:		
2-speed	355	
Motor torque @ max. displacement and relief		
pressure, calculated @ 5,220 psi (360 bar):		
	1,987 lb·ft (2 694 N·m)	
Travel speed:		
Low range	7.7 mph (12.4 kph)	
High range	11.5 mph (18.5 kph)	
Final drive Sin	gle-reduction chain drive	
Drive chain:		
Size	ASA #100	
Tensile strength	30,000 lb (133.4 kN)	
Axles:		
Torque @ max. displac	cement and	
relief pressure	5,957 lb·ft (8 077 N·m)	
Diameter	2.44 in (62 mm)	
Length	15.6 in (396 mm)	

ELECTRICAL

Parking brake:

Engagement

Type

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

Spring-applied, hydraulic

on handle or instrument panel,

raise seat bar, get off seat or stop engine.

release multiple disc. Depress on/off brake button

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy w/ side screens; Keyed start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Deluxe cloth, 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; Mechanical hand controls.

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; 78 in Heavy-Duty bucket; full of fuel; 14 x 17.5 tires: 9,100 lb (4 136 kg) Shipping weight 8,557 lb (3 890 kg) Add-on weights: Side cab glass 47 lb (21.3 kg) Polycarbonate cab door 75 lb (34.0 kg) 75 lb (34.0 kg) Glass cab door w/ wiper Suspension seat 22 lb (10.0 kg) Additional counterweight 300 lb (136.0 kg)

HYDRAULICS

Displacement:

Implement pump type

Standard aux.	2.23 in ³ (36.6 cm ³)
High-flow aux.	1.42 in ³ (23.3 cm ³)
Standard flow @ rated er	ngine RPM:
@ 100% efficiency	24.2 gpm (91.5 L/min)
Optional high-flow @ rate	ed engine RPM:
@ 100% efficiency	38.7 gpm (146.5 L/min)
Enhanced high-flow @ ra	ted engine RPM:
@ 100% efficiency	35.0 gpm (132.5 L/min)
Loader control valve:	
Type 3 spool/ope	en center/series - series
Relief pressure	3,450 psi (238 bar)

Port relief pressures: Loader raise

 Loader raise
 3,625 psi (250 bar)

 Bucket curl
 3,916 psi (270 bar)

 Bucket dump
 3,625 psi (250 bar)

Hydraulic lines:

Tubing ORFS + 37° JIC Flare Loop hoses SAE 100 R19

Gear

HYDRAULICS CONT.

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Hydraulic oil cooler:

Number of fins 10 per inch (3.94 per cm) 9 bar/plate Number of tube rows x columns 138.7 in² (890 cm²) Area

Hydraulic filter	Beta (4) = 75/spin-on
Lift cylinders:	
Bore diameter	2.75 in (69.85 mm)
Rod diameter	2.0 in (50.8 mm)
Stroke	34.9 in (886.5 mm)
Closed length	47.4 in (1 205 mm)

Bucket cylinders: Bore diameter 3.0 in (76.2 mm) Rod diameter 1.5 in (38.1 mm) 15.7 in (398 mm) Stroke Closed length 24.0 in (610 mm)

SERVICE CAPACITIES

Fuel tank	25.5 gal (96.5 L)	
Engine oil w/ filter	8.9 qt (8.5 L)	
Hydraulic system:		
Reservoir	6.0 gal (22.7 L)	
Total ,	12.0 gal (45.4 L)	
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Diesel Exhaust Fluid (DEF) Tank 2.8 gal (10.7 L)

PERFORMANCE SPECS

Rated operating capacity - ROC*:

3,400 lb (1 545 kg) 50% of tipping load w/ additional counterweight 3,650 lb (1 656 kg)

Tipping load* 6,800 lb (3 090 kg)

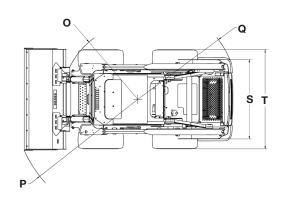
Breakout forces @ 3,150 psi (217 bar)*:

Bucket cylinders 9,531 lb (42.4 kN) 6,816 lb (30.3 kN) Lift cylinders - tip limit

Cycle times:

Raise 4.6 sec Lower 3.5 sec 2.6 sec Dump Roll back 2.0 sec

NOTE: *Measured using 78 in (1.98 m) dirt and foundry bucket.



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

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DIMENSIONS	
A. Overall operating height: with foundry/excavating bucket with low profile bucket with low profile extended bucket	161.9 in (4.11 m) 166.2 in (4.22 m) 171.0 in (4.34 m)
Height to: B. Bucket hinge pin C. Top of ROPS D. Bottom of level bucket, fully raised	131.6 in (3.34 m) 80.4 in (2.04 m) 124.8 in (3.17 m)
Overall length: E. without attachment with coupler F. with foundry/excavating bucket on ground with low profile bucket with low profile extended bucket	119.1 in (3.02 m) 144.3 in (3.67 m) 148.5 in (3.77 m) 153.4 in (3.89 m)
G. Maximum dump angle H. Dump height: with foundry/excavating bucket with low profile bucket	46.7° 105.2 in (2.67 m) @ 45° 102.2 in (2.59 m) @ 45°
Dump reach at maximum height with low profile bucket	27.2 in (0.69 m) @ 45°
Maximum attachment rollback: J. Bucket on ground K. Bucket at full height	35.0° 86.2°
L. Wheelbase	52.0 in (1.32 m)
M. Ground clearance – bottom of belly pan	9.6 in (0.24 m)
 N. Angle of departure Clearance circle: O. without bucket P. with 72 in (1.83 m) foundry/excavating bucket in carry position with 72 in (1.83 m) low profile bucket on ground with 72 in (1.83 m) extended low profile on ground 	26.5° 56.4 in (1.43 m) 85.2 in (2.17 m) 89.0 in (2.26 m) 93.4 in (2.37 m)
Q. Clearance circle rear	71.2 in (1.80 m)
R. Rear axle to bumper	42.4 in (1.08 m)
S. Tread over gauge with spec tires	60.2 in (1.53 m)
T. Over the tire width spec tires	73.8 in (1.88 m)

SV340B 2 of 4

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)

SV340B 3 of 4

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

Charged Air Cooler (CAC) 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

Jump start terminal

DRIVETRAIN

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

HYDRAULICS

Auxiliary hydraulics:

@ 3,450 psi (238 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

Connect under pressure auxiliary hydraulic disconnects

LOADER

Auxiliary front electric control Heavy duty hydraulic attachment coupler Vertical lift geometry Loader lift arm support strut In-cab loader lock

TIRES

14 X 17.5 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

Deluxe cloth, air suspension seat

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

Electro-hydraulic controls:

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

Hand and foot controls:

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

Air ride seat

Demolition cab door with polycarbonate **Ignition Timeout**

Machine Settings User Access Levels **Operator Security Codes**

HYDRAULICS

High-flow auxiliary hydraulics - combined: @ 3,450 psi (238 bar) - 38.7 gpm (146.5 L/min)

Enhanced High-Flow auxiliary hydraulics - EHF: @ 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 SiteWatch Telematics

FACTORY SUPPLIED ATTACHMENTS

Rotating beacon Four point lift hook 48 in (1.22 m) pallet forks

SERVICE PARTS

Add-on counterweights Road lights

Four-corner LED strobe

Single point lift hook

Aspirator

Precleaner

FOPS level 2

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

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Form No. CCE202009SV340B Replaces Form No. CCE202001SV340B

SV340B 4 of 4