

# *SV340B*

SKID STEER LOADER

**TIER 4 FINAL CERTIFIED** 



Model	FPT F5B FL413D*C001
Emissions Certification	Tier 4 Final
Type Diese	el, Turbo – Direct Injection
Cylinders	4
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)
Displacement	207 in <sup>3</sup> (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 Tui	rbocharged w/ waste gate and external cooled EGR
Exhaust aftertreatment	Selective Catalytic Reduction – SCR
Cooling	Liquid
Engine speeds High idle – no load Rated – full load Low idle	RPM 2500 +/- 25 2500 1150 +/- 25

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

Net 84 hp (63 kW)

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

Radiator:

Aluminum bar and plate Core type Core size area 2.21 ft<sup>2</sup> (0.206 m<sup>2</sup>) Rows of tubes Cap pressure 16 +/- 2 psi (1.10 +/- 0.14 bar)

45°

Fan: Diameter

22 in (560 mm) Ratio 1.1:1

Water pump:

Centrifugal Style 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

Bucket up 35° **Bucket Down** 45°

## LIFT GEOMETRY

Vertical Lift

#### **DRIVETRAIN**

Drive pump controls Servo-assist mechanical Pump to engine ratio Displacement 2.81 in<sup>3</sup> (46 cm<sup>3</sup>) 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 in<sup>3</sup> (45 cm<sup>3</sup>) Displacement Flow @ rated engine RPM: @ 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 28.7 in<sup>3</sup> (470 cm<sup>3</sup>)

Displacement:

High speed 17.2 in<sup>3</sup> (282 cm<sup>3</sup>) 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: 7.7 mph (12.4 kph) Low range High range 11.5 mph (18.5 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 2.44 in (62 mm) Diameter Length 15.6 in (396 mm)

Parking brake:

Spring-applied, hydraulic Type release multiple disc.

Engagement Depress on/off brake button on handle or instrument panel,

raise seat bar, get off seat or stop engine.

## ELECTRICAL

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

#### **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 22 lb (10.0 kg) Suspension seat Additional counterweight 300 lb (136.0 kg)

#### **HYDRAULICS**

implement pump type	Gear	
Displacement:		
Standard aux.	2.23 in <sup>3</sup> (36.6 cm <sup>3</sup> )	
High-flow aux.	1.42 in <sup>3</sup> (23.3 cm <sup>3</sup> )	
Standard flow @ rated el @ 100% efficiency	ngine RPM: 24.2 gpm (91.5 L/min)	
Optional high-flow @ rated engine RPM: @ 100% efficiency 38.7 gpm (146.5 L/min)		
Enhanced high-flow @ ra @ 100% efficiency	ated engine RPM: 35.0 gpm (132.5 L/min)	
Loader control valve:		

3 spool/open center/series - series 3,450 psi (238 bar) Relief pressure

Port relief pressures:

Loader raise 3,625 psi (250 bar) 3,916 psi (270 bar) Bucket curl Bucket dump 3,625 psi (250 bar)

Hydraulic lines:

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

#### HYDRAULICS CONT.

Α

В

С

S. Tread over gauge with spec tires

T. Over the tire width spec tires

Hydraulic oil cooler:

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

Hydraulic filter	Beta (4) = 75/spin-on
Lift cylinders:	
Para diameter	2.75 in (60.85 mm)

 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)

 Stroke
 15.7 in (398 mm)

 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)

G

| D



## PERFORMANCE SPECS

Rated operating capacity - ROC\*:

50% of tipping load 3,400 lb (1 545 kg) 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) Lift cylinders – tip limit 6,816 lb (30.3 kN)

Cycle times:

 Raise
 4.6 sec

 Lower
 3.5 sec

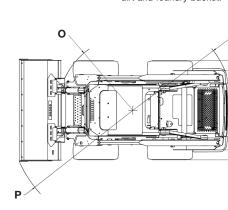
 Dump
 2.6 sec

 Roll back
 2.0 sec

60.2 in (1.53 m)

73.8 in (1.88 m)

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.

R

M

E —

## DIMENSIONS

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	131.6 in (3.34 m)
C. Top of ROPS	80.4 in (2.04 m)
D. Bottom of level bucket, fully raised	124.8 in (3.17 m)
Overall length:	
E. without attachment with coupler	119.1 in (3.02 m)
F. with foundry/excavating bucket on ground	144.3 in (3.67 m)
with low profile bucket	148.5 in (3.77 m)
with low profile extended bucket	153.4 in (3.89 m)
G. Maximum dump angle	46.7°
H. Dump height:	
with foundry/excavating bucket	105.2 in (2.67 m) @ 45°
with low profile bucket	102.2 in (2.59 m) @ 45°
I. Dump reach at maximum height with low profile bucket	27.2 in (0.69 m) @ 45°
Maximum attachment rollback:	
J. Bucket on ground	35.0°
K. Bucket at full height	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	26.5°
Clearance circle:	
O. without bucket	56.4 in (1.43 m)
P. with 72 in (1.83 m) foundry/excavating bucket in carry position	85.2 in (2.17 m)
with 72 in (1.83 m) low profile bucket on ground	89.0 in (2.26 m)
with 72 in (1.83 m) extended low profile on ground	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)

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

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#### 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

#### **TIRES**

14 X 17.5 Heavy duty

#### **OTHER STANDARD FEATURES**

LED 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 and fuel filters

Block heater

Debris ingression sealing

Mounting points for add-on counterweights

Deluxe cloth, air suspension seat

## **TELEMATICS**

CASE SiteWatch™ Telematics – includes hardware and a 5-yr data subscription SiteConnect Module providing remote diagnostics capability

#### **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

Auto Idle setting

#### **HYDRAULICS**

In-cab loader lock

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 (on EH machines only)

## **OTHER**

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

## **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

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

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