

SKID STEER LOADER

TIER 4 FINAL CERTIFIED



M.	7.	v	е
м	ш	ш	

Model	FPT F5B FL413 E*B002
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
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 aftertreatme	nt	Selective	е
	Catalytic Reduct	ion – SCF	3
o			-

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

Horsepower @ 2500 RPM - SAE J1349:

Gross 90 hp (67 kW) Net 84 hp (63 kW) 282 lb·ft (383 N·m)

Peak torque @ 1400 RPM

Radiator:

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

Fan:

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	Servo-assist mechanical	
Pump to engine ratio	1:1	
Displacement	2.81 in ³ (46 cm ³)	
Flow @ rated engine F	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	1:1	
Displacement	2.75 in ³ (45 cm ³)	
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 ³ (470 cm ³)	

Displacement - optional:

High speed 17.2 in³ (282 cm³) Motor RPM @ high idle and 97% efficiency:

Standard 1-speed Optional 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:

Low range 7.7 mph (12.4 kph) High range - optional 11.5 mph (18.5 kph)

Final drive Single-reduction chain drive

Drive chain:

Size ASA #100 30,000 lb (133.4 kN) Tensile strength

Torque @ max. displacement and

relief pressure 5,957 lb·ft (8 077 N·m) Diameter 2.44 in (62 mm) 15.6 in (396 mm) Length

Parking brake:

Type Spring-applied, hydraulic release multiple disc.

Depress on/off brake button Engagement 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

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 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

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) Glass cab door w/ wiper 75 lb (34.0 kg) Suspension seat 22 lb (10.0 kg) Additional counterweight 300 lb (136.0 kg)

Unit equipped w/ open cab; 165 lb operator;

HYDRAULICS

Loop hoses

Implement pump type	Gear
Displacement: Standard aux. High-flow aux.	2.23 in ³ (36.6 cm ³) 1.42 in ³ (23.3 cm ³)
Standard flow @ rated e @ 100% efficiency	•
Optional high-flow @ ra @ 100% efficiency	•
Enhanced high-flow @ r @ 100% efficiency	rated engine RPM: 35.0 gpm (132.5 L/min)
Loader control valve: Type 3 spool/op Relief pressure	pen center/series - series 3,450 psi (238 bar)
Port relief pressures: Loader raise Bucket curl Bucket dump	3,625 psi (250 bar) 3,916 psi (270 bar) 3,625 psi (250 bar)
Hydraulic lines: Tubing	ORFS + 37° JIC Flare

SAE 100 R19

HYDRAULICS CONT.

Hydraulic oil cooler:

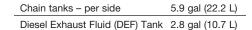
Number of fins 10 per inch (3.94 per cm) Number of tube rows x columns 9 bar/plate 138.7 in² (890 cm²) Area

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

2.75 in (69.85 mm) Bore diameter 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)



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)

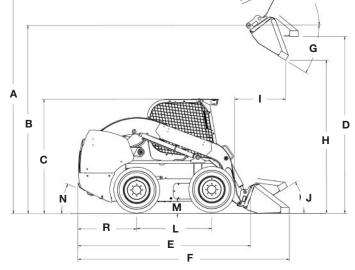
Breakout forces @ 3,150 psi (217 bar)*:

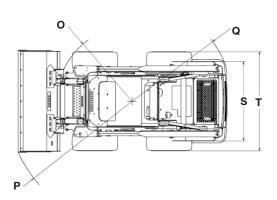
Bucket cylinders 9,531 lb (42.4 kN) 6,816 lb (30.3 kN) Lift cylinders - tip limit

Cycle times:

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

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





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

D	M	Ħ	NS	0	NS

DIMENSIONS	
A. Overall operating height: with foundry/excavating bucket with low profile bucket with low profile extended bucket	160.4 in (4.07 m) 164.4 in (4.18 m) 169.5 in (4.30 m)
Height to:	
B. Bucket hinge pin	130.0 in (3.30 m)
C. Top of ROPS	78.8 in (2.00 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	144.0 in (3.66 m)
with low profile bucket	148.0 in (3.76 m)
with low profile extended bucket	153.1 in (3.89 m)
G. Maximum dump angle	46.7°
H. Dump height:	
with foundry/excavating bucket	103.5 in (2.63 m) @ 45°
with low profile bucket	100.6 in (2.56 m) @ 45°
I. Dump reach at maximum height with low profile bucket	29.3 in (0.74 m) @ 45°
Maximum attachment rollback:	
J. Bucket on ground	35.0°
K. Bucket at full height	86.0°
L. Wheelbase	52.0 in (1.32 m)
M. Ground clearance – bottom of belly pan	8.0 in (0.20 m)
N. Angle of departure	23.5°
Clearance circle:	
O. without bucket	56.2 in (1.43 m)
P. with 72 in (1.83 m) foundry/excavating bucket in carry position	84.1 in (2.14 m)
with 72 in (1.83 m) low profile bucket on ground	87.8 in (2.23 m)
with 72 in (1.83 m) extended low profile on ground	71.2 in (2.35 m)
Q. Clearance circle rear	70.4 in (1.81 m)
R. Rear axle to bumper	42.4 in (1.08 m)
S. Tread over gauge with spec tires	56.9 in (1.45 m)
T. Over the tire width spec tires	69.6 in (1.77 m)

SV340 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)
	84 in (2.13 m)	545 lb (248 kg)	22.6 ft ³ (0.64 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)

SV340 3 of 4

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5B FL413 E*B002 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 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 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: @ 3,450 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

12 X 16.5 Heavy duty

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 service

Rear tail lights

Remote oil drain

Remote oil and fuel filters

Block heater

Debris ingression sealing

Mounting points for add-on counterweights

Heavy duty rear door

Deluxe cloth, air suspension seat

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy with side screens

Keyed start ignition

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

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

OTHER

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

FACTORY SUPPLIED ATTACHMENTS

Add-on counterweights

Road lights

Telematics

Rotating beacon

Four-corner LED strobe

Bolt-on heavy-duty bucket teeth

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

CaseCE.com

©2019 CNH Industrial America LLC. All rights reserved. CASE is a trademark registered in the United States and many other countries. owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. CNH Industrial Capital is a trademark in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. Printed in U.S.A. Contains 10% post-consumer fiber.

IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



CASE Construction Equipment is biodieselfriendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAF Standards or Recommended Practices, where applicable.



SAFETY™ Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

Form No. CCE201907SV340 Replaces Form No. CCE201811SV340

SV340 4 of 4