



## ENGINE

Model	FPT F5BFL413B*B
Emissions Certification	Tier 4 Final
Type	Diesel 4-stroke, Turbocharged
Cylinders	4
Bore/Stroke	3.90 x 4.33 in (99 x 110 mm)
Displacement	207 in <sup>3</sup> (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
Fuel	Diesel
Engine speeds*	RPM
Rated speed – full load	2200
Low idle	900–1100
High idle – no load	2320–2440
Horsepower @ 2200 RPM:	
Gross	97 hp (72 kW)
Net	95 hp (71 kW)
Maximum torque @ 1400 RPM:	
Gross	334 lb ft (453 N·m)
Net	333 lb ft (452 N·m)
Torque rise at rated speed	45% +/- 5%
Radiator:	
Core type	Square wave
Core size area	486 in <sup>2</sup> (3 145 cm <sup>2</sup> )
Rows of tubes	4
39° fan:	
Style	9 blade suction
Diameter	19.65 in (499 mm)
Ratio**	1.4:1
Pump operating angle ratings:	
Side to side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Replaceable, full flow cartridge

NOTE: \*Engine speeds w/ standard transmission.  
Meets federal emission regulations.  
\*\*Viscous fan.

## DRIVETRAIN

Transmission – standard:  
4F-4R Power Shuttle Synchromesh Transmission  
manual gear shift, fully synchronized.

Specifications below apply to the  
Power Shuttle transmission.

Gear ratios:	Forward	Reverse
1st	5.603	4.643
2nd	3.481	2.884
3rd	1.584	1.313
4th	0.793	0.675

Travel speeds – Standard Power

Shuttle Transmission:	Forward mph (kph)	Reverse mph (kph)
1st	3.4 (5.5)	4.1 (6.6)
2nd	5.5 (8.9)	6.6 (10.7)
3rd	11.8 (19)	14.2 (22.8)
4th	22.5 (36.2)	27 (43.4)

Transmission – optional:

Powershift H-Type, 4F-4R hydraulic clutch  
shifting w/ auto shift mode.

Gear ratios:	Forward	Reverse
1st	5.533	4.549
2nd	3.359	2.762
3rd	1.533	1.260
4th	0.811	0.667

Travel speeds – Optional PowerDrive

Powershift Transmission:	Forward mph (kph)	Reverse mph (kph)
1st	3.5 (5.6)	4.2 (6.7)
2nd	5.7 (9.1)	6.8 (10.9)
3rd	12.1 (19.4)	14.5 (23.3)
3rd w/ DD*	22.1 (35.5)	14.5 (23.3)
4th	22.1 (35.5)	24.5 (39.4)
4th w/ DD*	23.2 (37.4)	24.5 (39.4)

Torque converter ratio 2.38

Differential-lock:

On-the-go push-button activation.

Front/Rear axle:

Differential ratio	2.29/2.75
Planetary hub ratio	6.0/6.4
Total reduction ratio	13.7/17.6

Service brakes:

Individually applied, power assisted,  
hydraulically actuated, maintenance-free,  
self-adjusting, outboard mounted, wet disc,  
2 per side.

Total disc area 384 in<sup>2</sup> (0.25 m<sup>2</sup>)

Parking brakes Trans Mounted  
spring-applied hydraulic release – SAHR

NOTE: Travel speeds w/ 19.5 L x 24.0 tires.  
\*Direct Drive

## ELECTRICAL

Voltage	12 Volts, negative ground
Alternator	160 amp
Single Battery	900 amp
Power plugs – 1	20 amp

## OPERATOR ENVIRONMENT

ROPS/FOPS certified protective cab; 2 door w/  
heat, A/C, defroster, floor mat, Bluetooth® radio,  
front and rear wiper; Interior rearview convex  
mirror; Mechanical suspension deluxe seat; 2 in  
(50 mm) retractable seat belt; Cup holder and  
storage trays positioned on the right side; and  
enclosed storage compartment on left side.

Gauges:

Engine coolant temperature; Converter oil  
temperature; Fuel level; Tachometer/  
hourmeter; DEF level.

Warning lights:

Air cleaner restriction; Alternator; A/C high  
pressure; Cold start; Engine oil pressure;  
Hydraulic oil filter bypass; Parking brake  
engagement; Low fuel; Water in fuel; Low DEF.

Audible alarms w/ diagnostics:

Coolant temperature; Engine oil pressure;  
Parking brake engagement; Converter oil  
temperature; Shuttle engagement/seat  
position; Backup alarm; Low DEF.

Horn Dual switched front and rear.

## OPERATING WEIGHT

**Configuration 1:** 19,445 lb (8 820 kg)

Cab, HVAC, 15 ft in-line cylinder backhoe w/  
Extendahoe, 4-IN-1 loader bucket with cutting  
edge, medium counterweight, 24 in HD backhoe  
bucket, Front Wheels 14 x 17.5 Rear Wheels  
19.5L x 24, ride control and operator.

**Configuration 2:** 20,590 lb (9 340 kg)

Cab, HVAC, 14 ft overlapping cylinder backhoe  
w/ Extendahoe, 6-IN-1 loader bucket with  
cutting edge, large counterweight, 24 in HD  
backhoe bucket, Front Wheels 14 x 17.5, Rear  
Wheels 19.5L x 24, ride control and operator.

## HYDRAULICS

<b>Pump:</b>	
Sauer Danfoss Variable Displacement Axial Piston Pump	
Flow Ratings	36 gpm @ 2,973 psi (136 L/min @ 205 bar)
<b>Main relief pressure:</b>	
	2,973 +/- 44 psi (205 +/- 3 bar)
<b>PowerLift/PowerBoost relief pressure:</b>	
	3,480 +/- 44 psi (240 +/- 3 bar)
<b>Filtration:</b>	
7-micron, full flow replaceable cartridge on return line, condition indicator light for filter.	
<b>Oil cooler</b>	Heavy-duty
<b>Loader control valve:</b>	
Two or three spool sectional valve. The two Spool valve has single lever control for lift and tilt. The three spool valve has a pilot controlled clam valve. The lift lever has positive hold "float" position and "return to dig" feature. Valve is post compensated with flow sharing. Valve allows simultaneous operation of loader lift and loader bucket.	
<b>Backhoe flow @ 2200 RPM:</b>	
Maximum backhoe flow for 1-way hydraulics: 36 gpm @ 2,973 psi (136 L/min @ 205 bar)	

**Pilot backhoe control valve:**  
Six, seven, or eight spool sectional closed center control valve. Basic control valve is closed center, w/ circuits in parallel w/ a post-compensated, flow sharing feature for simultaneous operation of all circuits.

**1-way flow auxiliary hydraulics:**  
1-way flow hydraulic valve is equipped with a variable flow feature adjustable at the valve.  
**Actuation:**  
Pilot controls – left-hand joystick/pedal.

**2-way flow auxiliary hydraulics:**  
2-way flow hydraulic valve.  
**Actuation:**  
Left-hand joystick.

**Combined auxiliary hydraulics:**  
Combined 1-way/2-way auxiliary hydraulics.

## SERVICE CAPACITIES

Fuel tank	34.6 gal (131 L)
DEF tank	3.5 gal (13.2 L)
<b>Hydraulic system:</b>	
Total	37 gal (142 L)
<b>Transmission – total system:</b>	
4WD Standard	22 qt (20.8 L)

<b>Standard front axle:</b>	
4WD Differential	1.7 gal (6.5 L)
<b>Rear axle:</b>	
Differential and planetaries	5.6 gal (21.2 L)
Engine oil w/ filter	8.5 qt (8.0 L)

## OTHER SPECIFICATIONS

<b>Front tires:</b>	
	14 × 17.5, 10-ply rating 12.5/80 × 18.0 10-ply rating
<b>Rear tires:</b>	
	19.5 L × 24.0, 10-ply rating 16.9 L × 28.0, 10-ply rating 21 L × 24.0, 10-ply rating
<b>Turning radius: Curb to Curb:</b>	
4WD – disengaged*:	
Turning Right	14 ft 7 in (4.44 m)
Turning Left	15 ft 5 in (4.70 m)

NOTE: \*Turning radius dimensions curb to curb w/ 12.5/80 × 18.0 front tires and 18.4 × 26.0 R4 rear tires.

## LOADER DIMENSIONS

	Heavy Duty Bucket	4-IN-1® Bucket
Overall operating height – fully raised	13 ft 11 in (4.25 m)	14 ft 5 in (4.38 m)
Height to:		
Bucket hinge pin fully raised	11 ft 1 in (3.38 m)	11 ft 1 in (3.38 m)
Dump angle at full height	47°	47°
Dump clearance at full height, 45° dump:		
Bucket	10 ft 7 in (3.22 m)	8 ft 4 in (2.55 m)
Dump reach at full height, 45° dump – from bumper:		
Bucket	2 ft 9 in (829 mm)	2 ft 8 in (824 mm)
Bucket rollback:		
@ Groundline	44°	44°
@ Full height	60°	60°
Digging depth below grade:		
Bucket flat	5.0 in (120 mm)	8.6 in (219 mm)
Reach from front axle centerline – bucket on ground	–	6 ft 10 in (2.07 m)
Lift capacity to full height – calculated values	7,606 lb (3 450 kg)	7,044 lb (3 195 kg)
Breakout force:		
Lift cylinders	8,014 lbf (3 565 daN)	8,041 lbf (3 577 daN)
Dump cylinders	14,711 lbf (6 544 daN)	14,950 lbf (6 650 daN)
Raising time to full height	3.4 sec	3.4 sec
Bucket dumping time	2.3 sec	2.3 sec
Lowering time:		
Power down	2.8 sec	2.8 sec
Clam:		
Open time	–	1.9 sec
Close time	–	1.4 sec

NOTE: Loader dimensions taken with 4WD, 14 × 17.5 front tires and 16.9 L × 28.0 rear tires.

**DIMENSIONS****Side Shift Backhoe  
with 16.9 L x 28.0 tires**

Overall transport length: Heavy Duty bucket	19 ft 4 in (5.88 m)
Overall transport width	7 ft 10 in (2.39 m)
Height: To top of cab	9 ft 5 in (2.86 m)
To top of boom in locked position	12 ft 10 in (3.91 m)
Ground clearance at backhoe frame	12.1 in (307 mm)
Angle of departure	21°
Wheelbase: 16.9 x 28.0 tires	7 ft 2 in (2.18 m)

**AXLE RATINGS**

	Rear	Front – 4WD
Maximum static	–	56,202 lbf (22 500 daN)
Dynamic operating	21,357 lbf (9 500 daN)	20,323 lbf (9 000 daN)
Static operating	53,392 lbf (23 750 daN)	46,367 lbf (20 625 daN)
Oscillation – front axle	–	22° total – 11° side to side

**LOADER BUCKET SIZES**

Type	Width	Weight	Struck	Heaped Capacity
Heavy Duty Bucket with bolt-on edge	89 in (2.30 m)	1,042 lb (473 kg)	1.05 yd <sup>3</sup> (0.80 m <sup>3</sup> )	1.30 yd <sup>3</sup> (1.00 m <sup>3</sup> )
4-IN-1 Bucket with bolt-on edge	89 in (2.30 m)	1,721 lb* (781 kg)	1.05 yd <sup>3</sup> (0.80 m <sup>3</sup> )	1.30 yd <sup>3</sup> (1.00 m <sup>3</sup> )

NOTE: \*Weight of 4-IN-1 bucket includes cylinders and hoses.

**BACKHOE BUCKET SIZES**

Type	Width	Weight	Heaped Capacity
Heavy Duty	12 in (305 mm)	245 lb (111 kg)	2.8 ft <sup>3</sup> (0.08 m <sup>3</sup> )
	18 in (457 mm)	302 lb (137 kg)	4.2 ft <sup>3</sup> (0.12 m <sup>3</sup> )
	24 in (610 mm)	348 lb (158 kg)	6.0 ft <sup>3</sup> (0.17 m <sup>3</sup> )
	30 in (762 mm)	388 lb (176 kg)	8.1 ft <sup>3</sup> (0.23 m <sup>3</sup> )
	36 in (914 mm)	439 lb (199 kg)	9.9 ft <sup>3</sup> (0.28 m <sup>3</sup> )
High Capacity Bucket	24 in (610 mm)	388 lb (176 kg)	7.1 ft <sup>3</sup> (0.20 m <sup>3</sup> )

**BACKHOE LIFT CAPACITIES**

In-Line Cylinder Standard Backhoe			In-Line Cylinder Backhoe with Extendahoe®							
			Retracted				Extended			
			14 ft Backhoe		14 ft Backhoe		15 ft Backhoe		14 ft Backhoe	
Standard Lift Capacity lb (kg)	Powerlift Lift Capacity lb (kg)	Standard Lift Capacity lb (kg)	Powerlift Lift Capacity lb (kg)	Standard Lift Capacity lb (kg)	Powerlift Lift Capacity lb (kg)	Standard Lift Capacity lb (kg)	Powerlift Lift Capacity lb (kg)	Standard Lift Capacity lb (kg)	Powerlift Lift Capacity lb (kg)	
<b>Boom Lift</b>										
+16 ft (4.87 m)	3,574 (1 624)	4,074 (1 851)	3,055 (1 389)	3,483 (1 583)	3,168 (1 440)	3,612 (1 642)	1,844 (838)	2,102 (955)	2,409 (1 095)	2,746 (1 248)
+14 ft (4.27 m)	4,023 (1 829)	4,586 (2 085)	3,516 (1 598)	4,008 (1 822)	3,729 (1 695)	4,251 (1 932)	2,513 (1 142)	2,865 (1 302)	2,607 (1 185)	2,972 (1 351)
+12 ft (3.66 m)	4,139 (1 881)	4,718 (2 144)	3,597 (1 635)	4,101 (1 864)	3,828 (1 740)	4,364 (1 984)	2,582 (1 174)	2,943 (1 338)	2,673 (1 215)	3,047 (1 385)
+10 ft (3.05 m)	4,069 (1 850)	4,639 (2 109)	3,539 (1 609)	4,034 (1 834)	3,784 (1 720)	4,314 (1 961)	2,594 (1 179)	2,957 (1 344)	2,706 (1 230)	3,085 (1 402)
+8 ft (2.44 m)	3,954 (1 797)	4,508 (2 049)	3,424 (1 556)	3,903 (1 774)	3,454 (1 570)	3,938 (1 790)	2,571 (1 169)	2,931 (1 333)	2,673 (1 215)	3,047 (1 385)
+6 ft (1.83 m)	3,816 (1 734)	4,350 (1 977)	3,309 (1 504)	3,772 (1 715)	3,245 (1 475)	3,699 (1 682)	2,536 (1 153)	2,891 (1 314)	2,563 (1 165)	2,922 (1 328)
+4 ft (1.22 m)	3,689 (1 677)	4,205 (1 912)	3,193 (1 451)	3,640 (1 654)	3,135 (1 425)	3,574 (1 625)	2,490 (1 132)	2,839 (1 290)	2,497 (1 135)	2,847 (1 294)
+2 ft (0.61 m)	3,574 (1 624)	4,074 (1 851)	3,078 (1 399)	3,509 (1 595)	3,080 (1 400)	3,511 (1 596)	2,455 (1 116)	2,799 (1 272)	2,464 (1 120)	2,809 (1 277)
<b>Ground Level</b>										
-2 ft (0.61 m)	3,366 (1 530)	3,837 (1 744)	2,986 (1 357)	3,404 (1 547)	3,102 (1 410)	3,536 (1 607)	2,409 (1 095)	2,746 (1 248)	2,464 (1 120)	2,809 (1 277)
-4 ft (1.22 m)	3,297 (1 499)	3,759 (1 709)	2,894 (1 315)	3,299 (1 499)	3,179 (1 445)	3,624 (1 647)	2,375 (1 079)	2,708 (1 230)	2,508 (1 140)	2,859 (1 300)
-6 ft (1.83 m)	3,239 (1 472)	3,692 (1 678)	2,755 (1 252)	3,141 (1 427)	3,069 (1 395)	3,499 (1 590)	2,329 (1 058)	2,655 (1 206)	2,519 (1 145)	2,872 (1 305)
-8 ft (2.44 m)	3,228 (1 467)	3,680 (1 672)	2,732 (1 242)	3,114 (1 416)	3,047 (1 385)	3,474 (1 579)	2,329 (1 058)	2,655 (1 206)	2,530 (1 150)	2,884 (1 311)
-10 ft (3.05 m)	3,343 (1 520)	3,811 (1 733)	2,801 (1 273)	3,193 (1 451)	3,113 (1 415)	3,549 (1 613)	2,363 (1 074)	2,694 (1 224)	2,563 (1 165)	2,922 (1 328)
-12 ft (3.66 m)	3,574 (1 624)	4,074 (1 851)	3,090 (1 404)	3,523 (1 601)	3,586 (1 630)	4,088 (1 858)	2,467 (1 121)	2,812 (1 278)	2,662 (1 210)	3,035 (1 379)
-14 ft (4.27 m)	—	—	—	—	—	—	2,859 (1 300)	3,259 (1 482)	2,915 (1 325)	3,323 (1 511)
<b>Dipper Lift</b>										
+14 ft (4.27 m)	—	—	—	—	—	—	3,613 (1 642)	4,119 (1 872)	3,388 (1 540)	3,862 (1 756)
+12 ft (3.66 m)	5,545 (2 520)	6,321 (2 873)	4,998 (2 249)	5,641 (2 564)	4,312 (1 960)	4,916 (2 234)	3,935 (1 789)	4,486 (2 039)	3,311 (1 505)	3,775 (1 716)
+10 ft (3.05 m)	5,330 (2 423)	6,076 (2 762)	5,819 (2 645)	6,634 (3 015)	4,158 (1 890)	4,740 (2 155)	3,875 (1 762)	4,418 (2 009)	3,267 (1 485)	3,724 (1 693)
+8 ft (2.44 m)	5,437 (2 472)	6,198 (2 818)	5,819 (2 645)	6,634 (3 015)	4,202 (1 910)	4,790 (2 177)	3,923 (1 783)	4,472 (2 033)	3,300 (1 500)	3,762 (1 710)
+6 ft (1.83 m)	5,962 (2 710)	6,797 (3 089)	5,819 (2 645)	6,634 (3 015)	4,488 (2 040)	5,116 (2 326)	4,102 (1 864)	4,676 (2 125)	3,410 (1 550)	3,887 (1 767)
+4 ft (1.22 m)	—	—	—	—	5,324 (2 420)	6,069 (2 759)	4,495 (2 043)	5,124 (2 293)	3,685 (1 675)	4,201 (1 910)
<b>Overlapping Cylinder Backhoe with Extendahoe</b>										
			Retracted				Extended			
			14 ft Backhoe				14 ft Backhoe			
			Standard Lift Capacity lb (kg)	Powerlift Lift Capacity lb (kg)			Standard Lift Capacity lb (kg)	Powerlift Lift Capacity lb (kg)		
+14 ft (4.27 m)			—	—			2,604 (1 181)	—	2,969 (1 346)	
+12 ft (3.66 m)			3,883 (1 761)	4,427 (2 008)			2,543 (1 153)	—	2,899 (1 314)	
+10 ft (3.05 m)			3,625 (1 644)	4,133 (1 874)			2,459 (1 116)	—	2,803 (1 272)	
+8 ft (2.44 m)			3,396 (1 540)	3,871 (1 756)			2,363 (1 072)	—	2,694 (1 222)	
+6 ft (1.83 m)			3,193 (1 448)	3,640 (1 651)			2,261 (1 026)	—	2,578 (1 170)	
+4 ft (1.22 m)			3,010 (1 365)	3,431 (1 556)			2,162 (984)	—	2,465 (1 122)	
+2 ft (0.61 m)			2,844 (1 290)	3,242 (1 471)			2,075 (941)	—	2,366 (1 073)	
<b>Ground Level</b>										
-2 ft (0.61 m)			2,693 (1 221)	3,070 (1 392)			2,006 (910)	—	2,287 (1 037)	
-4 ft (1.22 m)			2,553 (1 158)	2,910 (1 320)			1,965 (891)	—	2,240 (1 016)	
-6 ft (1.83 m)			2,421 (1 098)	2,760 (1 252)			1,960 (889)	—	2,234 (1 013)	
-8 ft (2.44 m)			2,296 (1 041)	2,617 (1 187)			—	—	—	
-10 ft (3.05 m)			2,170 (984)	2,474 (1 122)			2,088 (947)	—	2,380 (1 080)	
-12 ft (3.66 m)			2,024 (918)	2,307 (1 047)			2,238 (1 015)	—	2,551 (1 157)	
-14 ft (4.27 m)			—	—			2,457 (1 114)	—	2,801 (1 270)	
<b>Dipper Lift</b>										
+14 ft (4.27 m)			4,767 (2 162)	5,434 (2 465)			2,328 (1 056)	—	2,654 (1 204)	
+12 ft (3.66 m)			5,556 (2 520)	6,334 (2 873)			2,824 (1 281)	—	3,219 (1 460)	
+10 ft (3.05 m)			6,189 (2 807)	7,055 (3 200)			3,141 (1 425)	—	3,581 (1 625)	
+8 ft (2.44 m)			6,973 (3 163)	7,949 (3 606)			3,412 (1 548)	—	3,890 (1 765)	
+6 ft (1.83 m)			9,459 (4 291)	10,783 (4 892)			3,694 (1 676)	—	4,211 (1 911)	
+4 ft (1.22 m)			—	—			4,066 (1 844)	—	4,635 (2 102)	

NOTE: Boom and Dipper Lift Capacities are rated per SAE J31 and are 87% of the maximum hydraulic lift force available with the specified options.

**BACKHOE OPERATIONAL DATA**

	In-Line Cylinder 14 ft Standard Backhoe	In-Line Cylinder 15 ft Backhoe with Extendahoe®		Overlapping 14 ft Backhoe with Extendahoe	
		Retracted	Extended	Retracted	Extended
Digging depth:					
Maximum	14 ft 5 in (4.40 m)	15 ft 1 in (4.60 m)	18 ft 6 in (5.63 m)	14 ft 7 in (4.49 m)	18 ft 1 in (5.51 m)
2 ft (610 mm) flat bottom	14 ft 3 in (4.34 m)	14 ft 11 in (4.55 m)	18 ft 4 in (5.58 m)	14 ft 6 in (4.42 m)	18 ft 0 in (5.48 m)
8 ft (2.44 m) flat bottom	13 ft 1 in (3.99 m)	13 ft 9 in (4.19 m)	17 ft 5 in (5.30 m)	13 ft 4 in (4.07 m)	17 ft 1 in (5.21 m)
Overall reach from swing pivot	18 ft 4 in (5.58 m)	17 ft 6 in (5.32 m)	20 ft 9 in (6.32 m)	18 ft 7 in (5.66 m)	22 ft 0 in (6.67 m)
Loading height	11 ft 9 in (3.57 m)	12 ft 1 in (3.68 m)	14 ft 2 in (4.32 m)	12 ft 8 in (3.86 m)	15 ft 7 in (4.75 m)
Loading reach	6 ft 9 in (2.05 m)	7 ft 0 in (2.13 m)	9 ft 9 in (2.98 m)	2 ft 10 in (0.88 m)	4 ft 8 in (1.43 m)
Swing arc	180°	180°	180°	180°	180°
Bucket rotation – speed hole	204°	204°	204°	198°	198°
Digging force:					
Bucket cylinder – SAE rated 3,050 psi	13,423 lb (5 971 daN)	13,423 lb (5 971 daN)	13,423 lb (5 971 daN)	11,973 lb (5 326 daN)	11,973 lb (5 326 daN)
Bucket cylinder – PowerLift/PowerBoost	15,302 lb (6 807 daN)	15,302 lb (6 807 daN)	15,302 lb (6 807 daN)	13,649 lb (6 072 daN)	13,649 lb (6 072 daN)
Dipper cylinder – SAE rated 3,050 psi	8,469 lb (3 767 daN)	8,469 lb (3 767 daN)	5,827 lb (2 592 daN)	7,284 lb (3 240 daN)	5,339 lb (2 375 daN)
Dipper cylinder – PowerLift/PowerBoost	9,655 lb (4 294 daN)	9,655 lb (4 294 daN)	6,643 lb (2 955 daN)	8,304 lb (3 694 daN)	6,086 lb (2 708 daN)

NOTE: Lift capacities apply straight to the rear of prime mover. 4WD with 14 × 17.5 front tires, 16.9 × 28 rear tires, and equipped with 24 in (610 mm) heavy-duty bucket except as noted.

## STANDARD EQUIPMENT

### OPERATOR ENVIRONMENT

See page 1

### ENGINE

FPT F5 diesel  
Selective Catalytic Reduction – SCR  
Full flow engine oil filter  
Aspirated air cleaner – replaceable dual element dry type with radial seal  
Fuel filter with water trap  
Radiator with de-aeration bottle  
Antifreeze to -34° F (-37° C)  
Electronic throttles – foot and rotary hand  
Self-adjusting belt  
High Pressure Common Rail computer controlled injection with diagnostic features  
ECO Power Mode  
Auto Engine Idle  
Auto Engine Shutdown  
Auto Protection Shutdown  
Brake Enabled Idle  
Glow Plugs

### TELEMATICS

MyCASEConstruction Telematics includes hardware and 7-year data subscription

## OPTIONAL EQUIPMENT

### OPERATOR ENVIRONMENT

Speed selectable Auto Ride Control  
ROPS/FOPS certified protective canopy

### DRIVETRAIN

PowerDrive Powershift transmission, 4F-4R, hydraulic clutch shifting, kick down, transmission disconnect and FNR switch in loader control lever, includes auto shift mode and direct drive

### LOADER

Auxiliary hydraulics for loader-mounted equipment with thumb-operated proportional control  
Hydraulic front quick coupler  
Tool portfolio of additional attachments  
Comfort Steering with two-speed steering pump and 3rd/4th gear cutout  
Buckets – see page 3

### DRIVETRAIN

Power Shuttle 4F-4R synchromesh transmission  
Front axle:  
4WD mechanically driven front axle  
Rear axle:  
4WD heavy-duty outboard planetary drive  
Torque converter – 11.8 in (300 mm)  
On-the-go electric 4WD control  
Electric F/R shuttle control  
Electric differential lock control, push-button  
Park brake, spring-applied, hydraulic release – SAHR

### HYDRAULICS

Load Sensing Closed Center with Variable Volume Pump  
Heavy-duty hydraulic oil cooler  
7-micron, spin on oil filter  
Hydraulic diagnostic test ports

### LOADER

Tool carrier loader arms with parallel lift in both directions and return to dig; Single lever 4-function loader control: lift, dump, clutch cut-out, differential lock

### BACKHOE

Hydraulic Side Shift Backhoe  
In-line cylinder curved boom backhoe design  
ProControl System  
Vertical Dirt Stabilizer Pads  
Mechanical Transport Lock

### OTHER

Forward tilt engine hood  
Front/Rear tie downs  
Reflective logos  
Signal Lights – cab and canopy:  
2 rear tail/stop  
2 front flashers/turn  
2 rear flashers/turn  
Working/Driving Lights – cab and canopy:  
Adjustable halogen work lights – 55 W:  
4 front  
4 rear  
Master disconnect switch and remote jump-start terminals  
Hydrostatic steering  
Backup alarm  
Vertical spin-on engine oil, fuel and hydraulic filters  
Tool Box

### WARRANTY

1-Year/Unlimited-Hour Full-Coverage Base Limited Warranty  
2-Year/2,000-Hour Extended Engine and Drivetrain Warranty

### BACKHOE

Overlapping Cylinder Boom with Extendahoe®  
1-way auxiliary hydraulics  
Combined 1-way/2-way auxiliary hydraulics  
Backhoe Booms:  
14 ft Standard Boom  
14 ft Extendahoe  
15 ft Extendahoe  
Pilot operated control system:  
Thumb-operated proportional  
Electro-Hydraulic Extendahoe control  
Thumb-operated horn button  
Thumb-operated auxiliary hydraulic control  
Infinitely adjustable towers  
In-cab switchable “excavator to backhoe” control pattern change  
Vertical Universal Footstreet stabilizer pads  
Mechanical or hydraulic quick coupler  
Hydraulic Transport Lock  
Buckets – see page 3

### OTHER

LED Working/Driving Light Package:  
4 front  
4 rear  
Dual 12 volt batteries  
Cold Weather Lubricants

### SERVICE PARTS

3 in seat belt

## CaseCE.com

©2026 CNH Industrial Capital America LLC. All rights reserved. CASE and CNH Capital are trademarks in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. Any trademarks referred to herein, in association with goods and/or services of companies other than CNH Industrial America LLC., are the property of those respective companies.

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 biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



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. CCE202603580SVSS

Replaces Form No. CCE202509580SVSS

580SV Side Shift

6 of 6