



ENGINE		
Model	Isuzu AP-4LE2X	
Emissions Certifica	tion Tier 4 Final	
Fuel	Requires ultra low-sulfur fuel B5 biodiesel tolerant	
Type high p	Water-cooled, 4-cycle, pressure common rail system. Turbo-charged w/ air cooled intercooler, DOC system	
Cylinders	4-cylinder in-line	
Displacement	133 in ³ (2.2 L)	
Bore/Stroke	3.35 x 3.78 in (85 x 96 mm)	
Fuel injection	Direct injection – electronic	
Fuel filter	Replaceable, full flow spin-on cartridge	
Air filter w	Dry type element / warning restriction indicator	
Oil filter	Replaceable, full flow spin-on cartridge	
Engine gradeability Side-to-side Fore and aft	: 35° 35°	
Net horsepower – SAE J1349 @ 2000 RPM: 53.6 hp (40 kW)		
Net max. torque -	SAE J1349 @ 1800 RPM: 142 lb⋅ft (193 N⋅m)	
Cooling operating r	ange:)9.4° to -13° F (43° to -25° C)	
Oil	Requires low-ash oil CJ-4	

DRIVETRAIN Dual stage relief/ Travel control counter balance design Brakes Mechanical disc SAHR disc – each motor Service brakes Two speed travel: Max. high speed 3.2 mph (5.1 kph) Max. low speed 2.0 mph (3.2 kph) Automatic downshift Drawbar pull 13,400 lb (59.5 kN) Gradeability 70% - 35° Slope

ELECTRICAL

Voltage	24 Volts
Alternator rating	50 amp
Batteries	2 x 12 Volt
Battery reserve capacity	64 Ah/5 hour
Work lights	24 Volt
1 boom	70 watt
1 upper	70 watt

OPERATOR ENVIRONMENT

FOPS Level 1 cab top guard; Pressurized cab; One-touch lock front window; AC/heat/defrost w/ auto climate control; 6 watt interior dome light; Mechanical-suspension cloth seat; Adjustable armrest; Low-effort joystick controls; Controls pre-wired for auxiliary; Blade control lever; AM/FM radio w/ antenna and 2 speakers; Anti-theft start code system; Rubber floor mat; 12-volt electric socket; 24-volt cigarette lighter; External rear view mirrors; Windshield wiper/ washer; Cup holder; Storage compartments; Travel alarm w/ cancel switch; One key start and lock-up; Built-in full-color LCD monitor; Safety glass for all windows; Polycarbonate roof hatch and sun shade.

Air conditioner output	13,492 BTU/hr
Heater output	12,897 BTU/hr
Sound level inside cab - ISO639	5 73.0 dBA

ATTACHMENT	
Boom	12 ft 4 in (3 750 mm)
Arm option: Standard	5 ft 7 in (1 690 mm)
Bucket digging force	12,800 lbf (56.9 kN)

CX75C SHORT RADIUS EXCAVATOR DOZER BLADE TIER 4 FINAL CERTIFIED

OPERATING WEIGHT		
Operating weight	17,400 lb (7 900 kg)	
w/ shoes	1 ft 6 in (450 mm)	
w/ boom	12 ft 4 in (3 750 mm)	
w/ arm	5 ft 7 in (1 690 mm)	
w/ bucket	463 lb (210 kg)	
w/ dozer blade	7 ft 7 in (2 320 mm)	
w/ counterweight	2,140 lb (970 kg)	
NOTE: W/ operator/full fuel/standard equipment		

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DOZER BLADE	
Blade width	91.3 in (2 320 mm)
Blade height	17.7 in (450 mm)
Max. lift above ground level	17.3 in (440 mm)
Max. drop below ground	11.0 in (280 mm)

GROUND PRESSURE

@ Standard operating weight 5.1 psi (0.35 bar) w/ 17.7 in (450 mm) triple semi-grouser shoes

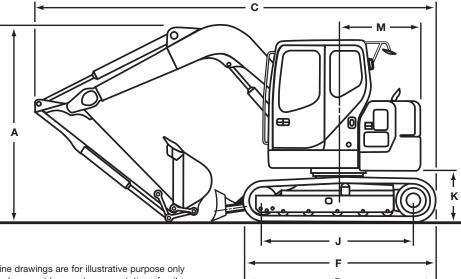
HYDRAULICS	
System design	Open center
Main pumps Tv	vo variable displacement/ axial piston
Max. rated flow per p	ump:
Max. rated flow total:	19.5 gpm (74 L/min)
	39.1 gpm (148 L/min)
System pressures: Boom, arm and bucke Travel circuits Swing circuit	et 4,260 psi (294 bar) 4,260 psi (294 bar) 3,280 psi (226 bar)
Pilot pump Max. capacity	1 x gear design 4.8 gpm (18 L/min)
Blade pump Max. flow	1 x gear design 9.4 gpm (35.4 L/min)
Controls w/ Right track travel, bucket, boom and arm acceleration.	/ boom/arm holding valve Four-spool section
Left track travel, auxiliary, swing, boon _acceleration and arm.	
Work mode selections	SP: Speed Priority H: Heavy-Duty A: Automatic
Swing motor	Fixed displacement axial piston
Swing final drive	Planetary gear reduction
Travel motor	Two-speed independent travel/axial piston

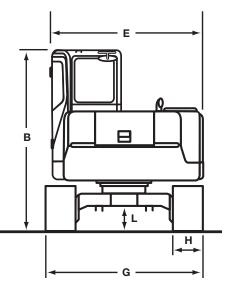
HYDRAULIC CYLINDERS	
Boom cylinders	One (1)
Cylinder bore	4.5 in (115 mm)
Cylinder rod diameter	3.0 in (75 mm)
Cylinder stroke	33.5 in (850 mm)
Arm cylinder	One (1)
Cylinder bore	3.9 in (100 mm)
Cylinder rod diameter	2.6 in (65 mm)
Cylinder stroke	29.7 in (755 mm)
Bucket cylinder	One (1)
Cylinder bore	3.3 in (85 mm)
Cylinder rod diameter	2.2 in (55 mm)
Cylinder stroke	26.2 in (665 mm)
Blade cylinder	One (1)
Cylinder bore	4.3 in (110 mm)
Cylinder rod diameter	2.8 in (70 mm)
Cylinder stroke	7.1 in (180 mm)

SERVICE CAPACITIES	
Fuel tank	31.7 gal (120 L)
Hydraulic system Hydraulic tank	25.4 gal (96.3 L) 13.5 gal (51 L)
Engine oil w/ filter	3 gal (11.5 L)
Final drive	0.3 gal (1.1 L)
Cooling system	3.2 gal (12.2 L)

OTHER SPECIFICATIONS

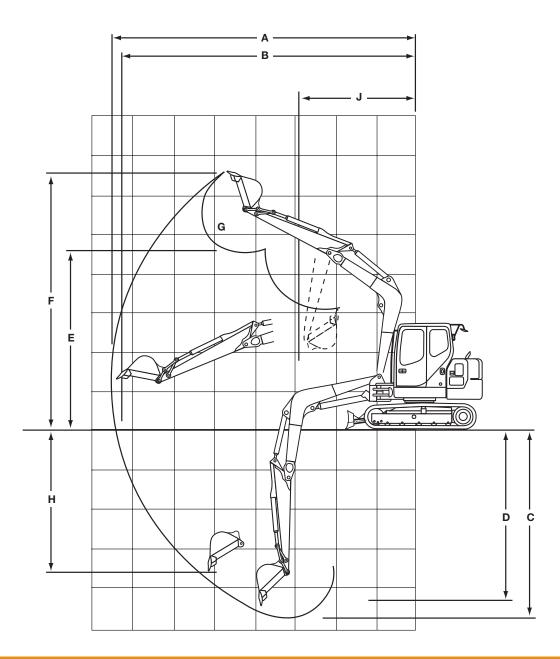
Swing speed	0 – 10.4 RPM
Swing torque	12,500 lb·ft (17 000 N·m)
Swing brake	Mechanical disc
Undercarriage:	
Length	9 ft 4 in (2 845 mm)
Track gauge	6 ft 2 in (1 870 mm)
Carrier rollers - eac	h side 1
Track rollers - each	side 5
Shoes – triple grouser – each side 3	
Shoe width - std.	1 ft 6 in (450 mm)
Link pitch	6.1 in (154 mm)
Track:	
Chain	Grease lubricated/strutted
Guides	Single
Adjustment	Hydraulic





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

DIMENSIONS		
	5 ft 7 in (1.69 m) Arm	7 ft 2 in (2.19 m) Arm
A. Overall height with attachment	9 ft 1 in (2 760 mm)	9 ft 5 in (2 860 mm)
B. Cab height	9 ft 1 in (2 760 mm)	9 ft 1 in (2 760 mm)
C. Overall length with attachment	18 ft 11 in (5 755 mm)	20 ft 10 in (6 340 mm)
D. Overall length without attachment	11 ft 2 in (3 410 mm)	11 ft 2 in (3 410 mm)
E. Width of upper structure	7 ft 5 in (2 270 mm)	7 ft 5 in (2 270 mm)
F. Track overall length	9 ft 4 in (2 845 mm)	9 ft 4 in (2 845 mm)
G. Track overall width with 17.7 in (450 mm) shoes	7 ft 7 in (2 320 mm)	7 ft 7 in (2 320 mm)
H. Track shoe width	1 ft 6 in (450 mm)	1 ft 6 in (450 mm)
Track gauge	6 ft 2 in (1 870 mm)	6 ft 2 in (1 870 mm)
J. Center to center – idler to sprocket	7 ft 3 in (2 210 mm)	7 ft 3 in (2 210 mm)
K. Upper structure ground clearance	2 ft 6 in (750 mm)	2 ft 6 in (750 mm)
L. Minimum ground clearance	1 ft 2 in (360 mm)	1 ft 2 in (360 mm)
M. Rear tail swing radius	4 ft 3 in (1 290 mm)	4 ft 3 in (1 290 mm)
Dozer blade width	7 ft 7 in (2 320 mm)	7 ft 7 in (2 320 mm)
Dozer blade height	1 ft 6 in (450 mm)	1 ft 6 in (450 mm)



PERFORMANCE SPECS		
	5 ft 7 in (1.69 m) Arm	7 ft 2 in (2.19 m) Arm
A. Maximum dig radius	21 ft 0 in (6 410 mm)	22 ft 7 in (6 890 mm)
B. Dig radius at groundline	20 ft 7 in (6 270 mm)	22 ft 2 in (6 760 mm)
C. Maximum dig depth	13 ft 7 in (4 130 mm)	15 ft 2 in (4 630 mm)
D. Dig depth – 8 ft 0 in (2.44 m) level bottom	12 ft 6 in (3 800 mm)	14 ft 4 in (4 360 mm)
E. Dump height	17 ft 4 in (5 280 mm)	18 ft 7 in (5 670 mm)
F. Maximum reach height – maximum dig height	24 ft 2 in (7 370 mm)	25 ft 6 in (7 770 mm)
G. Bucket rotation	177°	177°
H. Maximum vertical wall dig depth	11 ft 11 in (3 640 mm)	13 ft 9 in (4 200 mm)
J. Minimum swing radius	4 ft 3 in (1 290 mm)	4 ft 3 in (1 290 mm)
Arm digging force	8,880 lb (39.5 kN)	7,600 lb (33.8 kN)
Bucket digging force*	12,800 lb (56.9 kN)	12,800 lb (56.9 kN)
Dozer blade cutting edge:		
Maximum height	1 ft 5 in (440 mm)	1 ft 5 in (440 mm)
Maximum depth	11 in (280 mm)	11 in (280 mm)
NOTE: *Diaging force ratings based on ISO6015		× ×

NOTE: *Digging force ratings based on ISO6015.

5 ft 7 in (1.69 m) Arm Lift capacities using a 450 lb (204 kg) bucket, 2,138 lb (970 kg) counter	erweight with dozer blade on ground.
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Load (Lift Point		ft 5 m)		10 ft (3 m)		5 ft 5 m)) ft m)	MAXIMUM REACH			
Height)	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE	
+20 ft (6 m)			3,750 lb (1 701 kg)	3,750 lb (1 701 kg)					12 ft 4 in (3.76 m)	2,700 lb (1 225 kg)	2,700 lb (1 225 kg)	
+15 ft (4.5 m)			4,050 lb (1 837 kg)	4,050 lb (1 837 kg)	3,650 lb (1 656 kg)	3,450 lb (1 565 kg)			17 ft 4 in (5.28 m)	2,300 lb (1 043 kg)	2,300 lb (1 043 kg)	
+10 ft (3 m)	8,300 lb (3 765 kg)	8,300 lb (3 765 kg)	5,500 lb (2 495 kg)	5,500 lb (2 495 kg)	4,150 lb (1 882 kg)	3,300 lb (1 497 kg)			19 ft 7 in (5.97 m)	2,250 lb (1 021 kg)	2,050 lb (930 kg)	
+5 ft (1.5 m)			7,350 lb (3 334 kg)	5,950 lb (2 699 kg)	4,850 lb (2 200 kg)	3,100 lb (1 406 kg)	2,950 lb (1 338 kg)	1,900 lb (862 kg)	20 ft 2 in (6.15 m)	2,400 lb (1 089 kg)	1,900 lb (862 kg)	
Groundline			8,000 lb (3 629 kg)	5,550 lb (2 517 kg)	5,050 lb (2 291 kg)	2,950 lb (1 338 kg)			19 ft 5 in (5.92 m)	2,750 lb (1 247 kg)	1,950 lb (885 kg)	
-5 ft (-1.5 m)	8,250 lb (3 742 kg)	8,250 lb (3 742 kg)	7,450 lb (3 379 kg)	5,450 lb (2 472 kg)	4,700 lb (2 132 kg)	2,900 lb (1 315 kg)			17 ft 1 in (5.21 m)	3,600 lb (1 633 kg)	2,400 lb (1 089 kg)	
-10 ft (-3 m)	8,600 lb (3 901 kg)	8,600 lb (3 901 kg)	5,150 lb (2 336 kg)	5,150 lb (2 336 kg)					12 ft 9 in (3.89 m)	3,400 lb (1 542 kg)	3,400 lb (1 542 kg)	

7 ft 2 in (2.19 m) Arm Lift capacities using a 400 lb (181 kg) bucket, 2,138 lb (970 kg) counterweight with dozer blade on ground.

Load (Lift Point	0 ft (0 m)		5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		MAXIMUM REACH		
Height)	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+20 ft (6 m)					2,350 lb (1 066 kg)	2,350 lb (1 066 kg)					15 ft 0 in (4.57 m)	2,300 lb (1 043 kg)	2,300 lb (1 043 kg)
+15 ft (4.5 m)							3,500 lb (1 588 kg)	3,450 lb (1 565 kg)			19 ft 2 in (5.84 m)	2,000 lb (907 kg)	2,000 lb (907 kg)
+10 ft (3 m)					4,400 lb (1 996 kg)	4,400 lb (1 996 kg)	3,800 lb (1 724 kg)	3,400 lb (1 542 kg)	3,200 lb (1 451 kg)	2,050 lb (930 kg)	21 ft 3 in (6.48 m)	1,950 lb (885 kg)	1,800 lb (816 kg)
+5 ft (1.5 m)					6,750 lb (3 062 kg)	6,150 lb (2 790 kg)	4,600 lb (2 087 kg)	3,200 lb (1 451 kg)	3,550 lb (1 610 kg)	1,950 lb (885 kg)	21 ft 9 in (6.63 m)	2,050 lb (930 kg)	1,700 lb (771 kg)
Groundline			4,150 lb (1 882 kg)	4,150 lb (1 882 kg)	7,950 lb (3 606 kg)	5,600 lb (2 540 kg)	5,050 lb (2 291 kg)	3,000 lb (1 361 kg)	3,600 lb (1 633 kg)	1,900 lb (862 kg)	21 ft 0 in (6.40 m)	2,350 lb (1 066 kg)	1,750 lb (794 kg)
-5 ft (-1.5 m)	4,750 lb (2 155 kg)	4,750 lb (2 155 kg)	7,100 lb (3 221 kg)	7,100 lb (3 221 kg)	7,750 lb (3 515 kg)	5,450 lb (2 472 kg)	4,950 lb (2 245 kg)	2,900 lb (1 315 kg)			18 ft 11 in (5.77 m)	2,950 lb (1 338 kg)	2,050 lb (930 kg)
-10 ft (-3 m)			10,950 lb (4 967 kg)	10,950 lb (4 967 kg)	6,150 lb (2 790 kg)	5,500 lb (2 495 kg)	3,400 lb (1 542 kg)	2,900 lb (1 315 kg)			15 ft 0 in (4.57 m)	3,400 lb (1 542 kg)	2,900 lb (1 315 kg)

5 ft 7 in (1.69 m) Arm Lift capacities using a 450 lb (204 kg) bucket, 2,138 lb (970 kg) counterweight operating with dozer blade off ground
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Load (Lift Point		5 ft (1.5 m)		10 ft (3 m)		5 ft 5 m)) ft m)	MAXIMUM REACH			
Height)	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE	
+20 ft (6 m)			3,750 lb (1 701 kg)	3,750 lb (1 701 kg)					12 ft 4 in (3.76 m)	2,700 lb (1 225 kg)	2,700 lb (1 225 kg)	
+15 ft (4.5 m)			4,050 lb (1 837 kg)	4,050 lb (1 837 kg)	3,600 lb (1 633 kg)	3,300 lb (1 497 kg)			17 ft 4 in (5.28 m)	2,300 lb (1 043 kg)	2,300 lb (1 043 kg)	
+10 ft (3 m)	8,300 lb (3 765 kg)	8,300 lb (3 765 kg)	5,500 lb (2 495 kg)	5,500 lb (2 495 kg)	3,500 lb (1 588 kg)	3,150 lb (1 429 kg)			19 ft 7 in (5.97 m)	2,150 lb (975 kg)	1,950 lb (885 kg)	
+5 ft (1.5 m)			6,400 lb (2 903 kg)	5,700 lb (2 585 kg)	3,250 lb (1 474 kg)	2,950 lb (1 338 kg)	2,000 lb (907 kg)	1,850 lb (839 kg)	20 ft 2 in (6.15 m)	1,950 lb (885 kg)	1,800 lb (816 kg)	
Groundline			5,950 lb (2 699 kg)	5,250 lb (2 381 kg)	3,100 lb (1 406 kg)	2,800 lb (1 270 kg)			19 ft 5 in (5.92 m)	2,050 lb (930 kg)	1,850 lb (839 kg)	
-5 ft (-1.5 m)	8,250 lb (3 742 kg)	8,250 lb (3 742 kg)	5,850 lb (2 654 kg)	5,200 lb (2 359 kg)	3,050 lb (1 383 kg)	2,750 lb (1 247 kg)			17 ft 1 in (5.21 m)	2,500 lb (1 134 kg)	2,300 lb (1 043 kg)	
-10 ft (-3 m)	8,600 lb (3 901 kg)	8,600 lb (3 901 kg)	5,150 lb (2 336 kg)	5,150 lb (2 336 kg)					12 ft 9 in (3.89 m)	3,400 lb (1 542 kg)	3,400 lb (1 542 kg)	

7 ft 2 in (2.19 m) Arm Lift capacities using a 400 lb (181 kg) bucket, 2,138 lb (970 kg) counterweight operating with dozer blade off ground.

Load (Lift Point	0 ft (0 m)		5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		MAXIMUM REACH		
Height)	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+20 ft (6 m)					2,350 lb (1 066 kg)	2,350 lb (1 066 kg)					15 ft 0 in (4.57 m)	2,300 lb (1 043 kg)	2,300 lb (1 043 kg)
+15 ft (4.5 m)							3,500 lb (1 588 kg)	3,350 lb (1 520 kg)			19 ft 2 in (5.84 m)	2,000 lb (907 kg)	2,000 lb (907 kg)
+10 ft (3 m)					4,400 lb (1 996 kg)	4,400 lb (1 996 kg)	3,550 lb (1 610 kg)	3,250 lb (1 474 kg)	2,150 lb (975 kg)	1,950 lb (885 kg)	21 ft 3 in (6.48 m)	1,900 lb (862 kg)	1,750 lb (794 kg)
+5 ft (1.5 m)					6,500 lb (2 948 kg)	5,850 lb (2 654 kg)	3,350 lb (1 520 kg)	3,050 lb (1 383 kg)	2,050 lb (930 kg)	1,850 lb (839 kg)	21 ft 9 in (6.63 m)	1,750 lb (794 kg)	1,600 lb (726 kg)
Groundline			4,150 lb (1 882 kg)	4,150 lb (1 882 kg)	6,000 lb (2 722 kg)	5,350 lb (2 427 kg)	3,150 lb (1 429 kg)	2,850 lb (1 293 kg)	1,950 lb (885 kg)	1,800 lb (816 kg)	21 ft 0 in (6.40 m)	1,800 lb (816 kg)	1,650 lb (748 kg)
-5 ft (-1.5 m)	4,750 lb (2 155 kg)	4,750 lb (2 155 kg)	7,100 lb (3 221 kg)	7,100 lb (3 221 kg)	5,850 lb (2 654 kg)	5,150 lb (2 336 kg)	3,050 lb (1 383 kg)	2,750 lb (1 247 kg)			18 ft 11 in (5.77 m)	2,150 lb (975 kg)	1,950 lb (885 kg)
-10 ft (-3 m)			10,950 lb (4 967 kg)	10,950 lb (4 967 kg)	5,900 lb (2 676 kg)	5,250 lb (2 381 kg)	3,100 lb (1 406 kg)	2,800 lb (1 270 kg)			15 ft 0 in (4.57 m)	3,100 lb (1 406 kg)	2,800 lb (1 270 kg)

STANDARD EQUIPMENT

ENGINE

Isuzu four-cylinder turbo-charged diesel **Tier 4 Final Certified** Electronic fuel injection Neutral safety start Auto-engine warm up Glow-plug pre-heat One-touch idle Dual-stage fuel filtration Dual element air filter Remote oil filter Green plug oil drain 500-hour engine oil change interval 24 Volt system Color LCD monitor Auto idle shutdown system

HYDRAULICS

ISO pattern controls

5,000-hour hydraulic oil change interval 1,000-hour hydraulic filter change interval Mechanical disc brakes Three (3) work mode settings

UPPER STRUCTURE

Right and left side mirrors Viscous mounted cab - fluid Common kev vandal locks Upper mounted work light - 70 watt Cab mounted work light - 70 watt Swivel guard belly pan

ATTACHMENTS

Standard boom and arm: Boom - 12 ft 4 in (3.75 m) Arm – 5 ft 7 in (1.71 m) Offset boom and arm: Boom - 12 ft 9 in (3.89 m) Arm - 5 ft 9 in (1.75 m) Boom mounted work light - 70 watt Attachment cushion valve

OPERATOR ENVIRONMENT

See page 1

UNDERCARRIAGE

1 ft 6 in (450 mm) steel shoes, triple semi-grouser Full overlap turntable bearing tub Front track chain guides Hydraulic track adjustment X-pattern carbody

FRONT DOZER BLADE

Hydraulically controlled front blade: 7 ft 7 in (2.32 m) width 1 ft 6 in (450 mm) height

OPTIONAL EQUIPMENT

HYDRAULICS

Standard boom:

Multi-function auxiliary hydraulics: Single acting Double acting Offset boom: Double acting hydraulics only

ATTACHMENTS

Arm for standard boom – 7 ft 2 in (2.19 m) Coupler/Case multi-pin grabber Heavy-duty bucket

UNDERCARRIAGE

- 23.6 in (600 mm) steel shoes,
- triple semi-grouser*
- 1 ft 6 in (450 mm) rubber pads bolted to standard rail

*Note: Blade will not fully cover 23.6" shoe

OPERATOR ENVIRONMENT

Control pattern selector FOPS cab top guard - Level 2 Front grill guard – 2 x 2 screen mesh Front rock quard: Vertical bars - fixed/one piece/OPG 2

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use any safety features provided.