

case

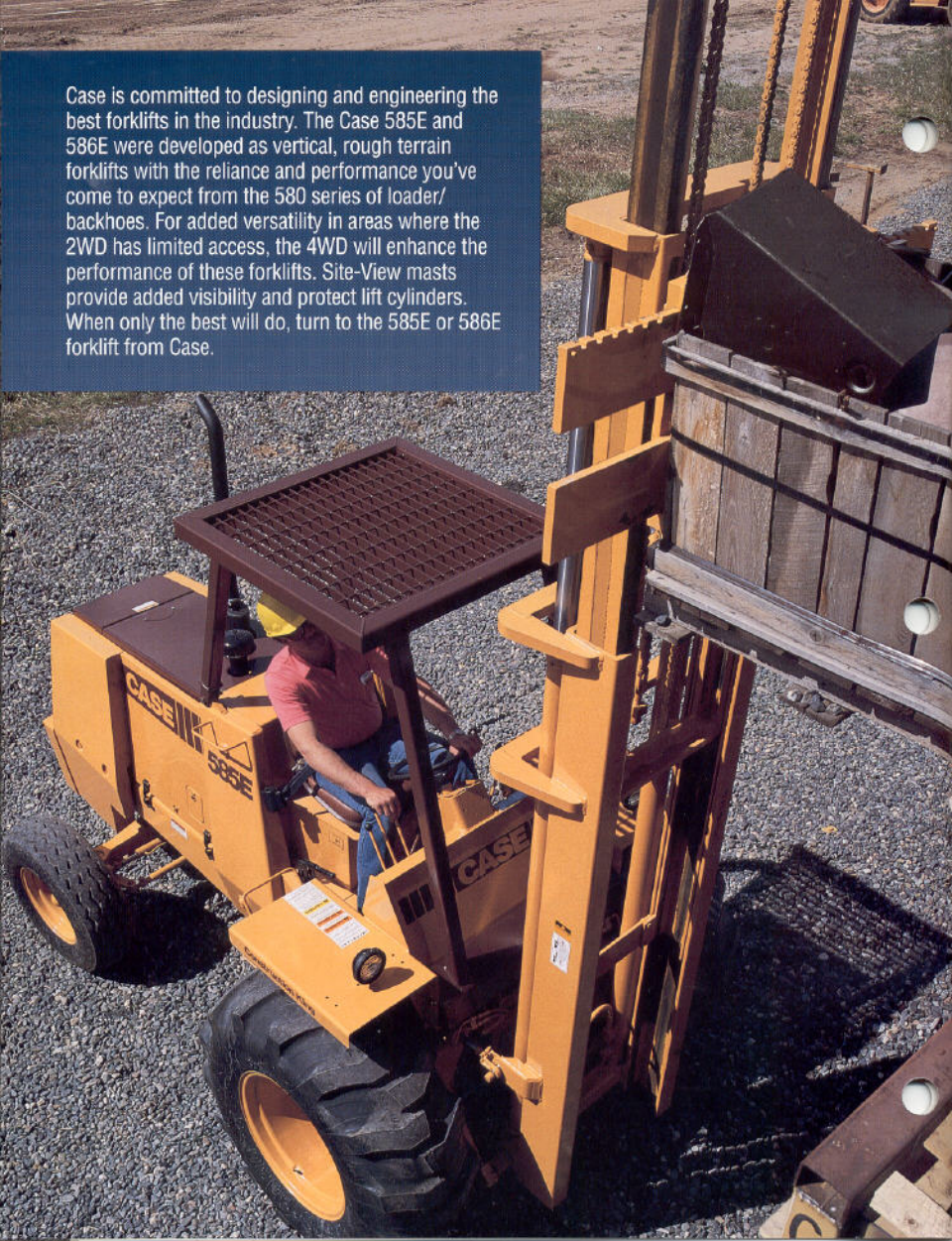
Forklift

SPECIFICATIONS

585E/586E



Case is committed to designing and engineering the best forklifts in the industry. The Case 585E and 586E were developed as vertical, rough terrain forklifts with the reliance and performance you've come to expect from the 580 series of loader/backhoes. For added versatility in areas where the 2WD has limited access, the 4WD will enhance the performance of these forklifts. Site-View masts provide added visibility and protect lift cylinders. When only the best will do, turn to the 585E or 586E forklift from Case.

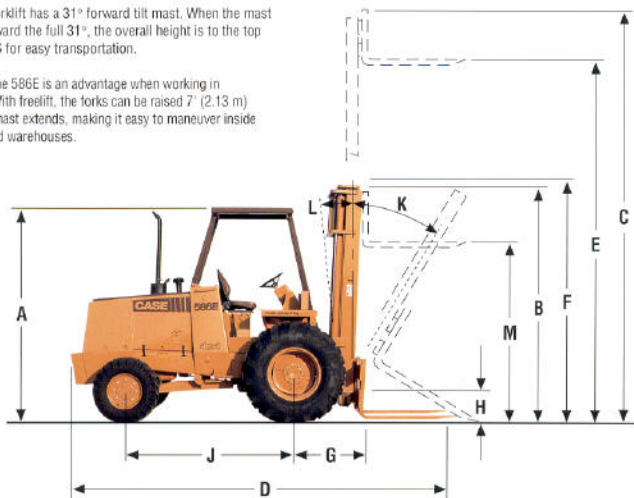




586E DIMENSIONS

The 586E forklift has a 31° forward tilt mast. When the mast is tilted forward the full 31°, the overall height is to the top of the ROPS for easy transportation.

Freelift on the 586E is an advantage when working in buildings. With freelift, the forks can be raised 7' (2.13 m) before the mast extends, making it easy to maneuver inside factories and warehouses.



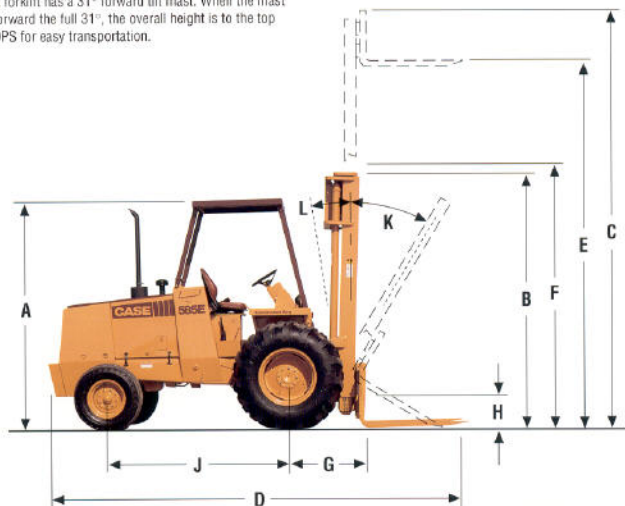
586E

	12' Mast (3.7 m)	14.25' Mast (4.3 m)	21.5' Freelift (6.6 m)	14.25' Freelift (4.3 m)	21.5' Freelift (6.6 m)
A. Height to top of ROPS canopy	106" (2.69 m)	106" (2.69 m)	106" (2.69 m)	106" (2.69 m)	106" (2.69 m)
B. Overall height - mast closed	8'8" (2.64 m)	9'9" (2.97 m)	9'11" (3.02 m)	9'9.5" (2.99 m)	10'2" (3.10 m)
C. Overall height - mast raised	14'7" (4.45 m)	16'10" (5.13 m)	24' (7.32 m)	16'9.5" (5.12 m)	24'2" (7.27 m)
D. Overall length	16'1" (4.90 m)	16'1" (4.90 m)	16'2" (4.93 m)	16'2" (4.93 m)	16'3" (4.95 m)
E. Lateral fork adjustment	48.5" (1.23 m)	48.5" (1.23 m)	48.5" (1.23 m)	48.5" (1.23 m)	48.5" (1.23 m)
F. Sideshift from center	3" (76 mm)	3" (76 mm)	3" (76 mm)	3" (76 mm)	3" (76 mm)
G. Maximum fork height, forks horizontal	12'1" (3.68 m)	14'5" (4.29 m)	21'5" (6.53 m)	14' (4.27 m)	21' (6.40 m)
H. Overall height at low carry, forks 6° off ground	8'9" (2.67 m)	10' (3.05 m)	10'1" (3.07 m)	9'9.5" (2.99 m)	10'2" (3.10 m)
I. Rate of lift, maximum load	63 fpm (32 m/s)	63 fpm (32 m/s)	93 fpm (47 m/s)	90 fpm (46 m/s)	89 fpm (45 m/s)
J. Reach from centerline of drive wheels	33" (838 mm)	33" (838 mm)	35" (889 mm)	32" (813 mm)	35" (889 mm)
K. Mast ground clearance	15" (381 mm)	15" (381 mm)	15" (381 mm)	15" (381 mm)	15" (381 mm)
L. Wheelbase	82" (2.08 m)	82" (2.08 m)	82" (2.08 m)	82" (2.08 m)	82" (2.08 m)
M. Degrees tilt - forward	31°	31°	31°	30°	31°
N. Degrees tilt - rear	9°	9°	9°	10°	9°
O. Freelift	NA	NA	NA	7' (2.13 m)	7' (2.13 m)
P. Overall width					
2WD	81" (2.06 m)	81" (2.06 m)	81" (2.06 m)	81" (2.06 m)	81" (2.06 m)
4WD	83" (2.11 m)	83" (2.11 m)	83" (2.11 m)	83" (2.11 m)	83" (2.11 m)
Q. Tread - drive wheels					
2WD	62" (1.57 m)	62" (1.57 m)	62" (1.57 m)	62" (1.57 m)	62" (1.57 m)
4WD	63" (1.60 m)	63" (1.60 m)	63" (1.60 m)	63" (1.60 m)	63" (1.60 m)
R. Tread - steering wheels					
2WD	61" (1.55 m)	61" (1.55 m)	61" (1.55 m)	61" (1.55 m)	61" (1.55 m)
4WD	68" (1.73 m)	68" (1.73 m)	68" (1.73 m)	68" (1.73 m)	68" (1.73 m)



585E DIMENSIONS

The 585E forklift has a 31° forward tilt mast. When the mast is tilted forward the full 31°, the overall height is to the top of the ROPS for easy transportation.



585E	12' Mast (3.7 m)	14.25' Mast (4.3 m)	21.5' Mast (6.6 m)	28' Mast (8.5 m)
A. Height to top of ROPS canopy	106" (2.69 m)	106" (2.69 m)	106" (2.69 m)	106" (2.69 m)
B. Overall height - mast closed	8' 8" (2.64 m)	9' 9" (2.97 m)	9' 11" (3.02 m)	12' (3.66 m)
C. Overall height - mast raised	14' 7" (4.45 m)	16' 10" (5.13 m)	24' (7.32 m)	30' 7" (9.32 m)
D. Overall length	15' 9" (4.80 m)	15' 9" (4.80 m)	16' 2" (4.93 m)	15' 9" (4.80 m)
Lateral fork adjustment	48.5" (1.23 m)	48.5" (1.23 m)	50.5" (1.28 m)	50.5" (1.28 m)
Sideshift from center	3" (76 mm)	3" (76 mm)	3" (76 mm)	3" (76 mm)
E. Maximum fork height				
forks horizontal	12' 1" (3.68 m)	14' 5" (4.29 m)	21' 5" (6.53 m)	28' (8.53 m)
F. Overall height at low carry				
forks 6" off ground	8' 9" (2.67 m)	10' (3.05 m)	10' 1" (3.07 m)	12' 3" (3.73 m)
Rate of lift, maximum load	63 fpm (.32 m/s)	63 fpm (.32 m/s)	93 fpm (.47 m/s)	93 fpm (.47 m/s)
G. Reach from centerline of drive wheels				
H. Mast ground clearance	15" (381 mm)	15" (381 mm)	15" (381 mm)	15" (381 mm)
J. Wheelbase	82" (2.08 m)	82" (2.08 m)	82" (2.08 m)	82" (2.08 m)
K. Degrees tilt - forward	31°	31°	31°	31°
L. Degrees tilt - rear	9°	9°	9°	9°
Overall width				
2WD	81" (2.06 m)	81" (2.06 m)	81" (2.06 m)	81" (2.06 m)
4WD	83" (2.11 m)	83" (2.11 m)	83" (2.11 m)	83" (2.11 m)
Tread - drive wheels				
2WD	62" (1.57 m)	62" (1.57 m)	62" (1.57 m)	62" (1.57 m)
4WD	63" (1.60 m)	63" (1.60 m)	63" (1.60 m)	63" (1.60 m)
Tread - steering wheels				
2WD	61" (1.55 m)	61" (1.55 m)	61" (1.55 m)	61" (1.55 m)
4WD	68" (1.73 m)	68" (1.73 m)	68" (1.73 m)	68" (1.73 m)



OPERATING WEIGHTS

Note:



2WD: 19.5L x 24 PR12 drive tires, 11L x 16 PR10 steering tires, 48" (1.22 m) forks, ROPS, standard equipment, 175 lb (79 kg) operator.

4WD: 19.5L x 24 drive tires, 12 x 16.5 NHS PR8 steering tires, 48" (1.22 m) forks, ROPS, standard equipment, 175 lb (79 kg) operator.

Mast	585E		586E	
	2WD	4WD	2WD	4WD
12' (3.7 m)	11,390 lb (5167 kg)	12,066 lb (5473 kg)	12,062 lb (5471 kg)	12,716 lb (5768 kg)
14.25' (4.3 m)	11,548 lb (5238 kg)	12,224 lb (5545 kg)	12,220 lb (5543 kg)	12,874 lb (5840 kg)
21.5' (6.6 m)	12,866 lb (5836 kg)	13,520 lb (6133 kg)	13,229 lb (6001 kg)	13,883 lb (6297 kg)
28' (8.5 m)	13,198 lb (5987 kg)	13,852 lb (6283 kg)	NA	NA
14.25' (4.3 m) freelif	NA	NA	12,262 lb (5562 kg)	12,916 lb (5859 kg)
21.5' (6.6 m) freelif	NA	NA	13,464 lb (6107 kg)	14,118 lb (6404 kg)



LIFT CAPACITIES

	FREELIFT					
	12' Mast (3.7 m)	14.25' Mast (4.3 m)	21.5' Mast (6.6 m)	28' Mast (8.5 m)	14.25' (4.3 m)	21.5' (6.6 m)
585E						
Maximum at 24" (610 mm) load center	5,000 lb (2268 kg)	5,000 lb (2268 kg)	5,000 lb (2268 kg)	5,000 lb (2268 kg)	----	----
15' (4.6 m)			4,000 lb (1814 kg)	4,000 lb (1814 kg)		
21.5' (6.6 m)			2,500 lb (1134 kg)	2,500 lb (1134 kg)		
28' (8.5 m)				1,000 lb (455 kg)		
586E						
Maximum at 24" (610 mm) load center	6,000 lb (2722 kg)	6,000 lb (2722 kg)	6,000 lb (2722 kg)	6,000 lb (2722 kg)	6,000 lb (2722 kg)	6,000 lb (2722 kg)
15' (4.6 m)			4,000 lb (1814 kg)			
21.5' (6.6 m)			2,500 lb (1134 kg)			

ELECTRICAL

Voltage	12 volts, negative ground
Alternator	65 amp
Battery	Low-maintenance, 685 cold-cranking amps @ 32° F (0° C)

SERVICEABILITY

Serviceability is an important consideration when buying a forklift. Groundline servicing makes daily maintenance fast and easy for minimum downtime.

- Easy-opening side panels allow quick access to the engine for service and maintenance on both sides of the unit.
- A wide filler opening and dipstick oil check facilitate daily engine maintenance.
- Outboard planetaries on the 4WD steering axle make servicing convenient.

MAST OPTIONS

Visibility is crucial when moving heavy loads on rough terrain. A clear view improves operator efficiency when approaching, lifting or placing a load.

- Site-View, a standard feature on all masts except the 14' (4.27 m) and freelif masts, offers exceptional visibility through the mast for all work and load situations.
- By placing the cylinders behind the mast and channels, visibility is excellent and the lift cylinders are protected.
- Added benefits of Site-View are wear plate serviceability and easy lift cylinder replacement.

SERVICE CAPACITIES

Fuel Tank	26.5 gal (100.3 L)
Hydraulic Reservoir	
w/filter	15.3 gal (57.9 L)
w/o filter	13.3 gal (50.3 L)
Transaxle	
(includes transmission, differential, final drives)	20.0 qt (18.9 L)
Engine Oil	
w/filter	11.6 qt (11.0 L)
Cooling System	18.0 qt (17.0 L)



Mast Size	585E	586E
12' (3.7 m)	●	●
14.25' (4.3 m)	●	●
21.5' (6.6 m)	●	●
28' (8.5 m)	●	
14.25' freelif (4.3 m)		●
21.5' freelif (6.6 m)		●



DRIVELINE

Whether you're using your forklift for construction, logging, or industrial use, the 585E and 586E forklifts offer you smooth, high performance operation.

- Sliding spur gear in 1st and 2nd and synchromesh in 3rd and 4th combined with hydraulically actuated clutches allow quick response to changing ground or road conditions.
- The power shuttle shift produces smooth directional changes and fast cycle times for excellent productivity.
- Single-stage torque converter with 2.78-to-1 stall ratio reduces shock loads placed on powertrain components by automatically adjusting torque to handle heavy workload conditions at peak engine efficiency.
- The shuttle transaxle incorporates the bull gear drives for reduced gear loading in severe loader applications.
- Maintenance-free, dry disc brakes are hydraulically actuated. They can be operated individually for pivot turns or simultaneously for normal braking.



- Continuous flow oil cooling to the torque converter prevents overheating to extend service life. Easy access oil cooler mounted in the rear of the engine radiator makes cleaning the coils effortless.
- Componentized powertrain makes servicing quicker and easier for less downtime. Each component can be removed separately without disturbing the remaining parts.
- Rear wheel mechanical drive is easily engaged by a lever located on the side of the seat. The heavy-duty rear axle with outboard planetary drive provides added tractive effort for rough terrain capability.

TIRE OPTIONS

DRIVE TIRES	585E		586E
	12' (3.7 m)	21.5' (6.6 m)	All Masts
19.5L X 24 PR12	●	●	●
STEERING TIRES			
2WD			
11L X 16 PR10	●	●	●
4WD			
12 X 16.5 PR8	●	●	●





STEERING

Up to 3.0 gpm (11.4 L/min) of on-demand priority flow is utilized by the hydrostatic power steering when turning from stop-to-stop. Excess oil from the 23 gpm (87.1 L/min) pump not used by the steering system is available to the forklift circuit.

- 2100 psi (14 479 kPa) operating pressure.
- Two (2) double-acting steering cylinders.
2WD turning ratio stop-to-stop is 3.5 and the 4WD turning ratio is 3.75 turns.

Turning Clearance Circle:

Maximum clearance with 2WD

w/brakes	23'10" (7.26 m)
w/o brakes	25'9" (7.85 m)

4WD	Engaged	Disengaged
w/brakes	23'5" (7.14 m)	26'5" (8.05 m)
w/o brakes	33' (10.06 m)	30'3" (9.22 m)

Axle Oscillation:

Front	Fixed
Rear 2WD	22° 4WD 23°



ENGINE

Designed specifically for heavy equipment applications, the Case 4-390 diesel engine has been proven to be reliable and efficient through years of the toughest on-the-job experience.

- Integral design of the oil and coolant pumps incorporates components into the engine block. Heat buildup and wear are reduced because of fewer moving parts. Fewer parts to replace means low operating cost and quick maintenance.



- State-of-the-art one-piece cast-iron parent metal bore block eliminates cavitation erosion and coolant leaks in the cylinder bore for increased ring and piston life.
- Integral oil pump and under-piston oil nozzles provide positive cylinder wall lubrication. Deep sump provides oil lubrication when operating on slopes up to 45° in all directions.
- Case backs the performance and durability of this outstanding engine with one of the best warranties in the business.

Model	Case 4-390
Cylinders	4
Bore/Stroke-in	4.02 x 4.72 (102 x 120 mm)
Displacement-in ³	240 (3.92 L)
Horsepower (naturally aspirated)*	
Gross	69 (51.4 kW) @ 2200 rpm
SAE Net	63 (46.9 kW) @ 2200 rpm
Maximum torque-ft-lb	
Gross	186 (252 Nm) @ 1300 rpm
Net	181 (245 Nm) @ 1200 rpm

*Gross engine horsepower or torque at flywheel per SAE 816.

TRAVEL SPEEDS mph (km/h)

	1st	2nd	3rd	4th
Forward	3.6 (5.9)	6.8 (10.9)	12.9 (20.6)	22.5 (36.8)
Reverse	3.2 (5.2)	6.2 (10.1)	11.5 (18.7)	19.9 (33.0)

Note: Engine at full throttle, 17.5 x 24 rear tires.



HYDRAULICS

Case has spent years perfecting the open-center hydraulic system through generations of machine design. The result is a smooth, fast response time.

- Cast-iron 23 gpm (87.1 L/min) gear pump provides positive flow to steering and forklift circuits.

Hydraulic Pump Front-mounted, positive displacement, gear type
Pump Capacity 23 gpm @ 2200 rpm @ 2000 psi (87.1 L/min @ 2200 rpm @ 13 790 kPa)
Filtration: 7-micron, full flow replaceable cartridge on return line. Condition indicator light for filter.
Main Relief Pressure 2200 psi (14 824 kPa)
Control Valve: 3-spool valve for lift, tilt and sideshift.





OPERATOR ENVIRONMENT

The 585E and 586E forklifts have been designed to incorporate the power and versatility of the 580 series loader/backhoes with the visibility and performance needed for rough terrain forklift work.

- The operator's compartment has been designed to provide maximum visibility for all work and transport functions.
- Mast and fork control levers are placed within easy reach to enhance operation.
- Low effort lever reduces operator fatigue and enhances metering.
- The shuttle control is on the left side within easy reach. The clutch disconnect button is located below the brake pedal on the left side of the floor.
- Operator warning system monitors vital system functions and alerts the operator if a problem occurs.
- Gauges and warning lights include converter oil temperature, engine coolant temperature, fuel, tachometer/hourmeter, voltmeter, engine oil pressure, hydraulic system filter, transmission oil filter, air cleaner and brake fluid level.



When it comes to backing up product, you can count on Case. That's because we build quality and performance into everything we make. It's our philosophy, our way of doing business.

And the same holds true for product support at any of the hundreds of Case dealerships across the country. Case has one of the best dealer support services in the industry. You're assured of fast, reliable service with genuine Case replacement parts for less downtime and increased productivity. That's our commitment to you.



STANDARD EQUIPMENT

Air cleaner: dry type
Antifreeze to -20° F (-29° C)
Canopy (ROPS)
Counterweights
Fenders: front wheel

Foot throttles
Full instrumentation
Hydraulically actuated brakes
Hydrostatic steering
Key start

Lights
2 front, 1 rear flood/tail
1 rear tail/stop
Neutral start switch
Retractable seat belt (2')

Seat
Toolbox
Torque converter drive
4F/4R powershuttle
65 amp alternator



OPTIONAL EQUIPMENT

	Add-on Weight
Backup alarm	5 lb (2.3 kg)
Cold start aid (ether)	10 lb (4.5 kg)
Dual batteries	35 lb (16 kg)
Forks, pallet (set of 2)	
585E	350 lb (159 kg)
586E	426 lb (193 kg)
Lights	26 lb (11.8 kg)
Load package	15 lb (6.8 kg)
Muffler (spark-arresting)	1.4 lb (0.64 kg)

	Add-on Weight
Noise suppression package	210 lb (95.3 kg)
Seat (deluxe)	7 lb (3.2 kg)
Sideshifter	40 lb (18 kg)
Seat belt (3')	2 lb (-0.9 kg)
Slow-moving vehicle sign	8 lb (0.36 kg)
Special paint	
Tie-down installation	18 lb (8.16 kg)
Tines, concrete block (set of 6)	505 lb (229 kg)



ALLIED EQUIPMENT

Meet today's market demand with the versatility and productivity of the Case 585E and 586E forklifts using allied supplied attachments.

Contact your Case dealer regarding the use of the right attachment for your application.

Your Case Allied Equipment Manufacturer's Attachment Directory lists a complete selection of allied attachments.

Barrel handlers
Bale clamps
Carton clamp
Fork bar rotator
Hydraulic sweeper
Roll clamp
Rotating clamp
Standard clamp

Car body fork
Hydraulic adjustable
tine fork
Pallet/materials forks
Block tine forks
Hook type forks
Load backrest forks
Shaft type forks

The dealer who sells and services your Case equipment is also your source for Case Credit financing. Case Credit offers finance plans, leases, insurance and repair financing.

Case Credit...
bringing people and product together®

Sold and serviced by:

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

IMPORTANT: J I Case reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Units shown may be equipped with non-standard equipment.

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