



# Forklift 585E/586E

## ENGINE

Model..... Case 4-390  
 Type .... 4-stroke, naturally aspirated  
 Cylinders ..... 4  
 Fuel injection ..... Direct  
 Bore/Stroke..... 4.02" x 4.72"  
 Displacement ..... 240 in<sup>3</sup>  
 Horsepower  
 Gross..... 69 @ 2200 rpm  
 Net ..... 63 @ 2200 rpm  
 Maximum torque  
 Gross ..... 186 lb-ft @ 1300 rpm  
 Net ..... 181 lb-ft @ 1200 rpm

## DRIVELINE

4-speed, forward/reverse power shuttle transmission with hydraulically actuated clutches. Torque converter. Hydraulically actuated, maintenance-free, dry disc brakes. Optional 4WD.

## TRAVEL SPEEDS (MPH)

	1st	2nd	3rd	4th
Forward.....	3.6	6.8	12.9	22.5
Reverse.....	3.2	6.2	11.5	19.9

## OPERATOR ENVIRONMENT

### GAUGES AND WARNING LIGHTS

Transmission oil temperature – Engine  
 coolant temperature – Fuel –  
 Tachometer/hourmeter – Voltmeter –  
 Engine oil pressure – Hydraulic system  
 filter – Air cleaner restriction

## HYDRAULICS

Front mounted, positive displacement, gear-type.

### PUMP CAPACITY

23 gpm @ 2200 rpm @ 2000 psi

### CONTROL VALVE

3-spool valve for lift, tilt and sideshift

### MAIN RELIEF PRESSURE

2200 psi

### FILTRATION

7-micron, full flow replaceable cartridge on return line. Condition indicator light for filter.

## STEERING

Hydrostatic power steering utilizes on-demand priority flow from the main hydraulic pump. 2100 psi operating pressure. Two, double-acting steering cylinders. 2WD stop-to-stop turning ratio is 3.5 turns. 4WD stop-to-stop turning ratio is 3.75 turns.

### TIRE SIZE

Steering Tires  
 2WD ..... 11L x 16, 10PR  
 4WD ..... 12L x 16.5, 8PR  
 Drive Tires ..... 19.5L x 24, 10PR

### TURNING CLEARANCE CIRCLE

2 WD  
 w/o brakes ..... 23'10"  
 w/brakes ..... 25'9"  
 4 WD disengaged  
 w/o brakes ..... 30'3"  
 w/brakes ..... 26'5"  
 4 WD engaged  
 w/o brakes ..... 33'  
 w/brakes ..... 23'5"

### STEERING AXLE OSCILLATION

2 WD ..... 22° total (11° each side)  
 4 WD ..... 23° total (11.5° each side)

## SERVICE CAPACITIES

Fuel Tank ..... 26.5 gal  
 Hydraulic Reservoir  
 w/filter ..... 15.3 gal  
 w/o filter..... 13.3 gal  
 Transaxle  
 (includes transmission, differential and final drives) ..... 20.0 qt  
 Engine oil w/filter ..... 11.6 qt  
 Cooling System ..... 18.0 qt

## MAST

Masts have hydraulic forward and rearward tilt. Optional sideshifter. On optional freelif mast, forks can be raised 7.0' before the mast extends.

MAST SIZE	585E	586E
12'	●	●
14'3"	●	●
21'6"	●	●
28'	●	NA
14'3" freelif	NA	●
21'6" freelif	NA	●

## OPERATING WEIGHTS

MAST SIZE	585E	
	2WD	4WD
12'	11,390 lb	12,066 lb
14'3"	11,548 lb	12,224 lb
21'6"	12,866 lb	13,520 lb
28'	13,198 lb	13,852 lb

MAST SIZE	586E	
	2WD	4WD
12'	12,062 lb	12,716 lb
14'3"	12,220 lb	12,874 lb
21'6"	13,229 lb	13,883 lb
28'	NA	NA
14'3" freelif	12,262 lb	12,916 lb
21'6" freelif	13,464 lb	14,118 lb

NOTE: 2WD equipped with 19.5L x 24 drive tires, 11L x 16 steering tires, 48" forks, ROPS, standard equipment, and 175 lb operator.

4WD equipped with 19.5L x 24 drive tires, 12L x 16.5 steering tires, 48" forks, ROPS, standard equipment, and 175 lb operator.

## LIFT CAPACITIES

MAST SIZE	585E			Max at 24" Load Center
	at 28'	at 21'6"	at 14'3"	
12'				5,000
14'3"				5,000
21'6"	2,500	4,000	5,000	5,000
28'	1,000	2,500	4,000	5,000

MAST SIZE	586E			Max at 24" Load Center
	at 21'6"	at 14'3"		
12'				6,000
14'3"				6,000
21'6"	2,500	4,000	6,000	6,000
28'				6,000
14'3" freelif				6,000
21'6" freelif				6,000

NOTE: Lift capacities expressed in pounds.

## ELECTRICAL

Voltage ..... 12 Volts, negative ground  
 Alternator ..... 12 Volts, 65 amp  
 Battery ..... 685 cca @ 32° F

# DIMENSIONS

585E	12' Mast	14.25' Mast	21.5' Mast	28' Mast
Height to top of ROPS canopy	106"	106"	106"	160"
Overall height - mast closed	8'8"	9'9"	9'11"	12'
Overall height - mast raised	14'7"	16'10"	24'	30'7"
Overall length	15'9"	15'9"	16'2"	15'9"
Lateral fork adjustment	48.5"	48.5"	50.5"	50.5"
Sideshift from center	3"	3"	3"	3"
Maximum fork height	12'1"	14'5"	21'5"	28'
Overall mast height at low carry	8'9"	10'	10'1"	12'3"
Rate of lift, max load	63 fpm	63 fpm	93 fpm	93 fpm
Reach from centerline of drive wheel	33"	33"	35"	34"
Mast ground clearance	15"	15"	15"	15"
Wheelbase	82"	82"	82"	82"
Degrees tilt forward	31°	31°	31°	31°
Degrees tilt rearward	9°	9°	9°	9°
Overall width 2WD	81"	81"	81"	81"
Overall width 4WD	83"	83"	83"	83"
Treadwidth 2WD drive wheel	62"	62"	62"	62"
Treadwidth 4WD drive wheel	63"	63"	63"	63"
Treadwidth 2WD steering wheel	61"	61"	61"	61"
Treadwidth 4WD steering wheel	68"	68"	68"	68"

586E	14.25' Freelift Mast	21.5' Freelift Mast	12' Mast	14.25' Mast	21.5' Mast
Height to top of ROPS canopy	106"	106"	106"	106"	106"
Overall height - mast closed	9'9.5"	10'2"	8'8"	9'9"	9'11"
Overall height - mast raised	16'9.5"	24'2"	14'7"	16'10"	24'
Overall length	16'2"	16'3"	16'1"	16'1"	16'2"
Lateral fork adjustment	48.5"	48.5"	48.5"	48.5"	48.5"
Sideshift from center	3"	3"	3"	3"	3"
Maximum fork height	14'	21'	12'1"	14'5"	21'5"
Overall mast height at low carry	9'9.5"	10'2"	8'9"	10'	10'1"
Rate of lift, max load	90 fpm	89 fpm	63 fpm	63 fpm	93 fpm
Reach from centerline of drive wheel	32"	35"	33"	33"	35"
Mast ground clearance	15"	15"	15"	15"	15"
Wheelbase	82"	82"	82"	82"	82"
Degrees tilt forward	30°	31°	31°	31°	31°
Degrees tilt rearward	10°	9°	9°	9°	9°
Freelift	7'	7'	NA	NA	NA
Overall width 2WD	81"	81"	81"	81"	81"
Overall width 4WD	83"	83"	83"	83"	83"
Treadwidth 2WD drive wheel	62"	62"	62"	62"	62"
Treadwidth 4WD drive wheel	63"	63"	63"	63"	63"
Treadwidth 2WD steering wheel	61"	61"	61"	61"	61"
Treadwidth 4WD steering wheel	68"	68"	68"	68"	68"

## CASE CORPORATION

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585E/586E Page 2 of 2

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