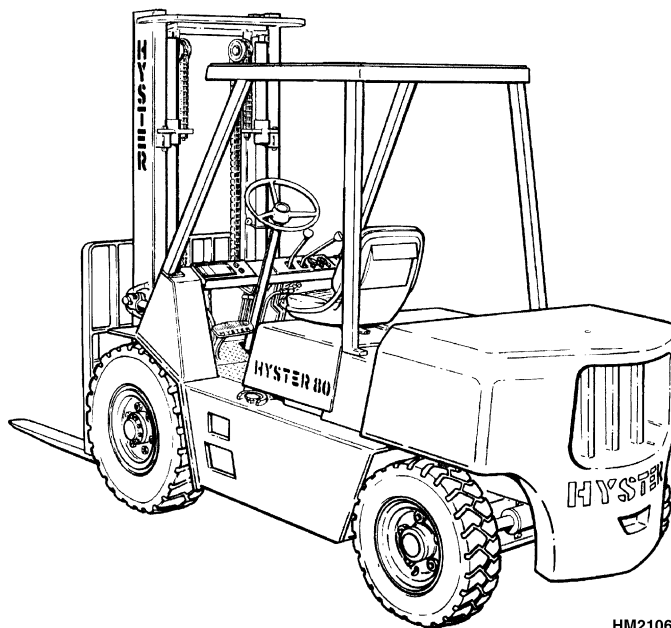


CAPACITIES AND SPECIFICATIONS

H6.00-7.00XL (H135-155XL,
H135-155XL₂) [F006, G006]



HM210691

HYSTER

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This section is for the following models:

H6.00-7.00XL (H135-155XL,
H135-155XL₂) [F006, G006]

(More Content includes: Brake system, Capacities, and specifications, Frame, Hydraulic, System, Industrial battery, Main control, Valve, Mast repair, Fasteners, Schematics diagrams, Steering axle, Steering system, Wire harness repair And more)

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Lift Truck Weights

Model	kg	lb
H6.00XL (H135XL, H135XL ₂) (F006, G006)	8,035	16,720
H7.00XL (H155XL, H155XL ₂) (F006, G006)	8,560	18,870

NOTE: Lift trucks equipped with overhead guard, 4340 mm (171.0 in.) two-stage mast, carriage, load back-rest extension, forks, gasoline engine, manual transmission, and operator.

Capacities

Item	Quantity
Engine Oil	
GM 4.3L V-6	4.7 liter (5.0 qt)
Perkins 4.2482	8.5 liter (9.0 qt)
Perkins 1004.4	8.0 liter (8.5 qt)
Cooling System	
GM 4.3L V-6	19.9 liter (21.0 qt)
Perkins 4.2482	19.9 liter (21.0 qt)
Perkins 1004.4	15.1 liter (16.0 qt)
Hydraulic System	
Manual Transmission	Initial Fill 51.1 liter (13.5 gal)
Powershift Transmission	Initial Fill 49.7 liter (13.1 gal)
Manual Transmission	9.5 liter (10.0 qt)
Powershift Transmission	15.1 liter (16.0 qt)
Speed Reducer and Differential	14.3 liter (15.1 qt)
Differential for Powershift Transmission	14.3 liter (15.1 qt)
Brake Fluid	0.2 liter (0.4 pt)
Fuel Tank	60.0 liter (15.9 gal)

Tire Sizes

Model	Steering	Drive
Bias Ply Tires	8.25 × 15-12 Ply	8.25 × 15-12 Ply
Radial Tires	7.50R 15-12 Ply	7.50 × 15-10 Ply
	8.25R 15-12 Ply	8.25 × 15-12 Ply

Tire Pressure

Bias Ply Tires		
Tire Size	kPa	psi
8.25 × 15 - 12 Ply	690	100

Radial Tires		
Tire Size	kPa	psi
7.50 × 15 - 12 Ply	1000	145
8.25 × 15 - 12 Ply	1000	145

Electrical System

Alternator Output	
GM 4.3L V-6 Engine	11 amps @ 650 rpm (hot)
	33 amps @ 2500 rpm (hot)
Perkins 4.248.2 and 1004.4 Engine	25 amps @ 750 rpm (hot)
	38 amps @ 2500 rpm (hot)
All Models - 12 volt, Negative Ground	

Wheel Nut Torque

	N•m	lbf ft
All Wheels	610 to 680	450 to 502

Engine Specifications

Item	GM 4.3L V-6	Perkins 4.2482	Perkins 1004.4
No. of Cylinders	6	4	4
Firing Order	1-6-5-4-3-2	1-3-4-2	1-3-4-2
Bore	101.6 mm (3.99 in.)	101.0 mm (3.975 in.)	100.0 mm (3.937 in.)
Stroke	88.4 mm (3.48 in.)	127.0 mm (5.00 in.)	127.0 mm (5.00 in.)
Displacement	4.3 liter (262.4 in. ³)	4.06 liter (244.0 in. ³)	4.06 liter (244.0 in. ³)
Compression Ratio	9.3:1	18:1	16.5:1
Idle Speed	625 to 675 rpm	725 to 775 rpm	725 to 775 rpm
Idle-Up Speed (LPG)	1200 rpm (maximum)	N/A	N/A
Governed Speed	2400 to 2500 rpm	2400 to 2500 rpm	2400 to 2500 rpm
Stall Speed (Engine at 50 hours)	1810 rpm (Gas)	2070 to 2170 rpm	2000 to 2100 rpm
	1735 rpm (LPG)		
Timing	0° BTDC at 650 rpm	16° BTDC (Static)	16° BTDC (Static)
Oil Pressure (Minimum)	207 to 308 kPa (30 to 45 psi) @ 2000 rpm	276 kPa (40 psi) @ 1200 rpm	280 kPa (40 psi) @ 2500 rpm
Valve Clearance			
Intake	Not Adjustable	0.20 mm (0.008 in.) Cold	0.20 mm (0.008 in.) Cold
Exhaust	Not Adjustable	0.45 mm (0.018 in.) Cold	0.45 mm (0.018 in.) Cold

Hydraulic System

Item	Specification
Hydraulic System Capacity	51.1 liter (13.5 gal)
Hydraulic Pump Output	32.2 liter/min (8.5 gal/min) @ 700 rpm (No Load)
Main Pump	123.0 liter/min (32.5 gal/min) @ 2500 rpm (No Load)
Steering Pump	15.1 liter/min (4.0 gal/min) @ 1500 rpm (No Load)
Relief Pressures*	
Main Control Valve	
Main Pump	20.88 to 21.20 MPa (3025 to 3075 psi) @ 2500 rpm
Auxiliary Relief Valve	15.34 to 15.68 MPa (2225 to 2275 psi) @ 2500 rpm
Steering Pump	13.8 MPa (2000 psi)
Steering Control Unit (Manifold Block)	12.06 to 12.11 MPa (1736 to 1808 psi)
*Oil Temperature at 49°C (120°F) and engine speed at 2500 rpm.	

Mast Speeds

Two-Stage Masts								
Unit	Lifting				Lowering			
	No Load		Rated Load		No Load		Rated Load	
	m/sec	ft/min	m/sec	ft/min	m/sec	ft/min	m/sec	ft/min
H6.00XL (H135XL, H135XL ₂) (F006, G006)	0.44	86	0.41	80	0.53	104	0.58	114
H7.00XL (H155XL, H155XL ₂) (F006, G006)	0.44	86	0.41	80	0.53	104	0.58	114

Transmission Oil Pressures

	Port No.	Transmission Pressures*	
	1	System Pressure	1179 to 1427 kPa (171 to 207 psi)
	2	Torque Converter Pressure	765 to 903 kPa (111 to 131 psi)
	3, 4, 5, 6, 7	Clutch Pressure	855 to 993 kPa (124 to 144 psi)
	8, 9	Solenoid Pressure	827 to 1103 kPa (120 to 160 psi)
	10, 11	Lubrication Pressure	131 to 173 kPa (19 to 25 psi)
	12, 13	Lubrication Pressure	62 to 104 kPa (9 to 15 psi)

*Oil temperature at least 82°C (180°F) and engine speed at 2000 rpm.

<p>1. System Pressure Check Port</p> <p>2. Torque Converter Check Port</p> <p>3. Common Clutch Pressure Check Port</p> <p>4. Reverse-Low Check Port</p> <p>5. Reverse-High Check Port</p> <p>6. Forward-Low Check Port</p> <p>7. Forward-High Check Port</p>	<p>8. Reverse Solenoid Check Port</p> <p>9. Forward Solenoid Check Port</p> <p>10. Reverse-High Lubrication Check Port</p> <p>11. Forward-High Lubrication Check Port</p> <p>12. Reverse-Low Lubrication Check Port</p> <p>13. Forward-Low Lubrication Check Port</p>
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Torque Specifications

ENGINE - GM 4.3L V-6

Intake Manifold Capscrews

47 N•m (35 lbf ft)

Valve Cover Capscrews

10 N•m (7 lbf ft)

Exhaust Manifold Capscrews

Center Port 35 N•m (26 lbf ft)

Outer Port 27 N•m (20 lbf ft)

Engine Mount Capscrews

50 N•m (37 lbf ft)

Camshaft Sprocket Capscrews

27 N•m (20 lbf ft)

Vibration Dampener Capscrew

81 N•m (60 lbf ft)

Main Bearing Capscrews

95 to 115 N•m (70 to 85 lbf ft)

Connecting Rod Nuts

57 to 64 N•m (42 to 47 lbf ft)

Flywheel Capscrews

79 N•m (58 lbf ft)

Engine Adapter Capscrews

47 N•m (35 lbf ft)

ENGINE - PERKINS 4.2482

Engine Mount to Engine Capscrews

56 N•m (41 lbf ft)

Flywheel Housing Capscrews

50 N•m (37 lbf ft)

Cylinder Head

136 N•m (100 lbf ft)

Connecting Rod Nuts

102 N•m (75 lbf ft) Silver

129 N•m (95 lbf ft) Black

Main Bearing Capscrews

244 N•m (180 lbf ft)

Camshaft Gear Capscrew

68 N•m (50 lbf ft)

Crankshaft Capscrews

406 N•m (300 lbf ft)

Idler Gear Capscrews

41 N•m (30 lbf ft)

Flywheel Capscrews

120 N•m (90 lbf ft)

Fuel Injector Capscrews

15 N•m (12 lbf ft)

Fuel Tube Nuts

20 N•m (15 lbf ft)

Cold Start Aid

13 N•m (10 lbf ft)

ENGINE - PERKINS 1004.4

Engine Mount to Engine Capscrews

56 N•m (41 lbf ft)

Flywheel Housing Capscrews

75 N•m (55 lbf ft)

Cylinder Head

110 N•m (80 lbf ft)

Connecting Rod Nuts

155 N•m (114 lbf ft)

Main Bearing Capscrews

265 N•m (196 lbf ft)

Camshaft Gear Capscrew

78 N•m (58 lbf ft)

Idler Gear Capscrews

44 N•m (33 lbf ft)

Flywheel Capscrews

105 N•m (77 lbf ft)

Fuel Injector Capscrews

12 N•m (9 lbf ft)

Fuel Tube Nuts

18 N•m (14 lbf ft)

Cold Start Aid

13 N•m (10 lbf ft)

CLUTCH

Pressure Plate Capscrews

20 N•m (15 lbf ft)

Clutch Housing Capscrews

31 N•m (23 lbf ft)

Universal Joint Capscrews

28 N•m (20 lbf ft)

MANUAL TRANSMISSION**Cluster Gear Retainer**

20 to 35 N•m (15 to 25 lbf ft)

Main Shaft Bearing Retainer

20 to 35 N•m (15 to 25 lbf ft)

Yoke Nut on Mainshaft

120 to 175 N•m (90 to 130 lbf ft)

Input Shaft Retainer

20 to 35 N•m (15 to 25 lbf ft)

Transmission Cover Capscrews

25 to 55 N•m (20 to 40 lbf ft)

Transmission to Clutch Housing Capscrews

110 N•m (80 lbf ft)

Universal Joint Capscrews

28 N•m (20 lbf ft)

POWERSHIFT TRANSMISSION**Torque Converter Housing Capscrews**

31 N•m (23 lbf ft)

Torque Converter Drive Plate Capscrews

44 N•m (32 lbf ft)

Engine Mount Capscrews at Torque Converter Housing

110 N•m (80 lbf ft)

Universal Joint Capscrews

50 N•m (37 lbf ft)

Transmission Cover Capscrews

38 N•m (28 lbf ft)

Manifold Block Capscrews

38 N•m (28 lbf ft)

Oil Pump Capscrews

38 N•m (28 lbf ft)

Torque Converter Housing to Transmission Capscrews

38 N•m (28 lbf ft)

Control Valve Capscrews

19 N•m (14 lbf ft)

SPEED REDUCER**Bearing Cover Capscrews**

27 N•m (20 lbf ft)

Speed Reducer Housing to Differential Capscrews

110 N•m (80 lbf ft)

Pinion Nut

855 to 1100 N•m (630 to 812 lbf ft)

Universal Joint Capscrews

28 N•m (20 lbf ft)

DRIVE AXLE**Drive Axle to Frame Capscrews**

610 N•m (450 lbf ft)

Axle Shaft Capscrews

165 N•m (122 lbf ft)

STEERING SYSTEM**Axle Mount Capscrews**

320 N•m (235 lbf ft)

Bearing Cap for Spindle

44 N•m (32 lbf ft)

Tie Rod Nut

163 N•m (120 lbf ft)

Steering Cylinder Capscrews

245 N•m (180 lbf ft)

BRAKE SYSTEM**Back Plate Nuts**

125 N•m (90 lbf ft)

Brake Drum and Wheel Nuts

610 to 680 N•m (450 to 500 lbf ft)

Wheel Bearing Adjustment Nut

200 N•m (150 lbf ft) Initial

35 N•m (25 lbf ft) Final

Wheel Bearing Lock Nut

135 N•m (100 lbf ft)

HYDRAULIC SYSTEM**Pump Driveshaft GM 4.3L V-6**

Universal Joint Capscrews 50 N•m (37 lbf ft)

Crankshaft Pulley Capscrews 50 N•m (37 lbf ft)

Pump Driveshaft Perkins 4.2482

Universal Joint Capscrews 50 N•m (37 lbf ft)

Crankshaft Pulley Capscrews 79 N•m (58 lbf ft)

TILT CYLINDER**Rod Nut on Piston**

407 to 441 N•m (300 to 325 lbf ft)

Retainer

542 to 610 N•m (400 to 460 lbf ft)

Rod End Lock Nut

77 N•m (57 lbf ft)

MAST**Pivot Cap Capscrews**

165 N•m (122 lbf ft)

Lift Cylinder Mount Capscrews

555 N•m (410 lbf ft)

Sideshift Carriage

Guide Roller Nuts 345 N•m (255 lbf ft)

Side Roller Capscrews 90 N•m (66 lbf ft)

Cylinder Rod Nut 163 to 190 N•m (120 to 140 lbf ft)

Cylinder Retainer 169 to 237 N•m (125 to 175 lbf ft)

NOTES
