ELECTRICAL SCHEMATICS

The schematic drawing of different engines differ from each other mainly on the starting system and on the sensor. It is suggested to refer to the specific drawing and real condition of the truck first when carrying out repair.

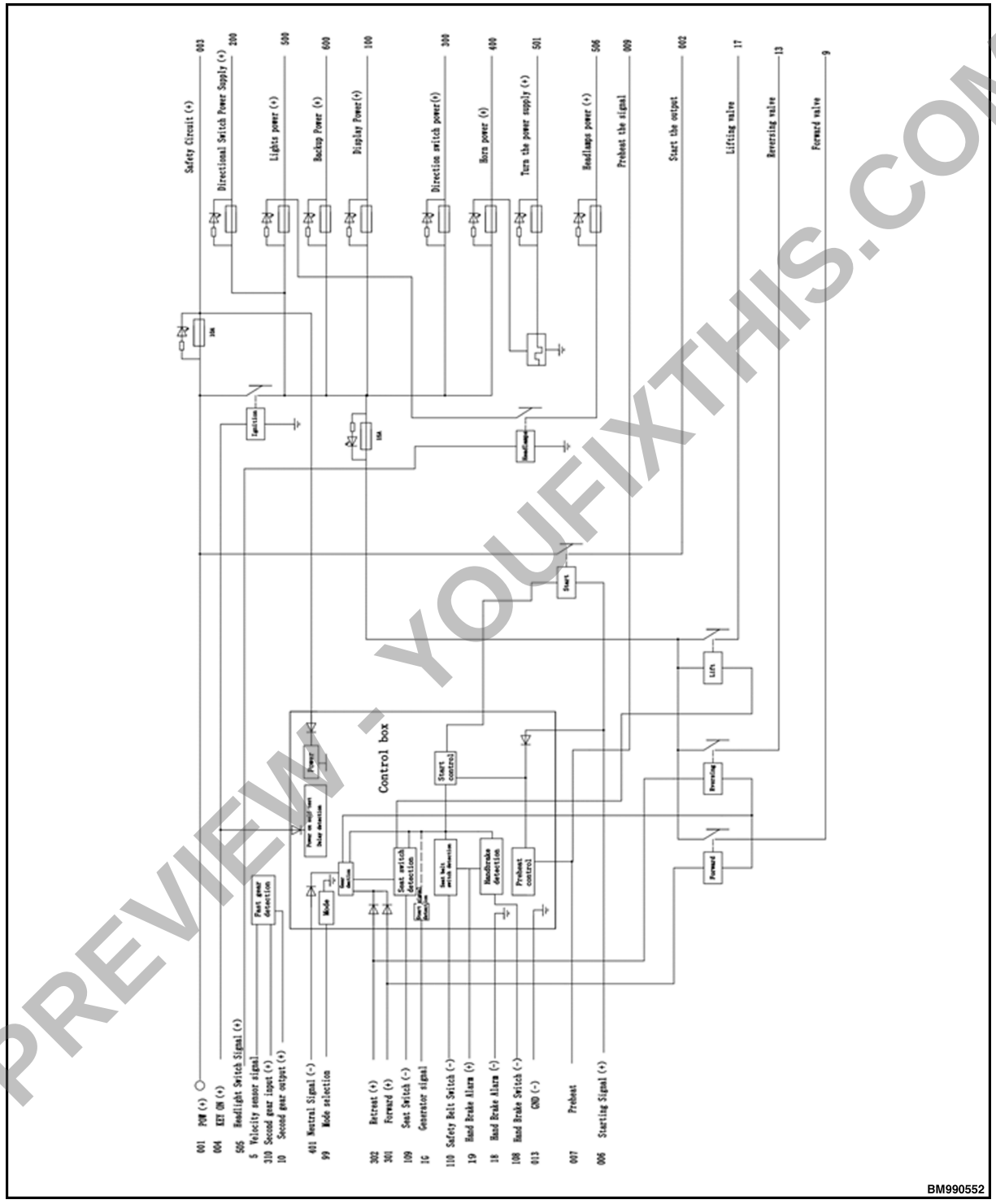


Figure 62. Electrical PDM

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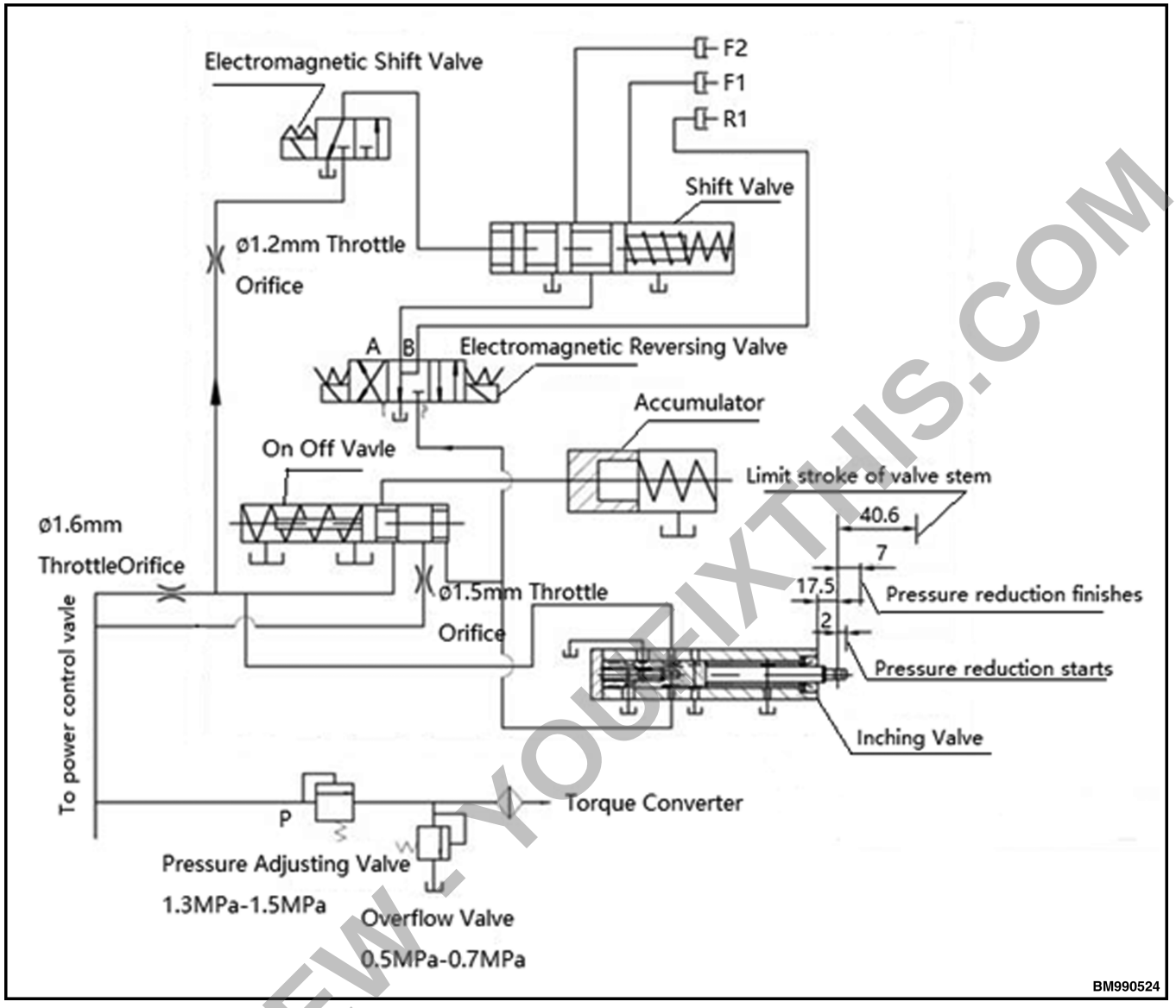


Figure 15. Transmission Hydraulic Schematic

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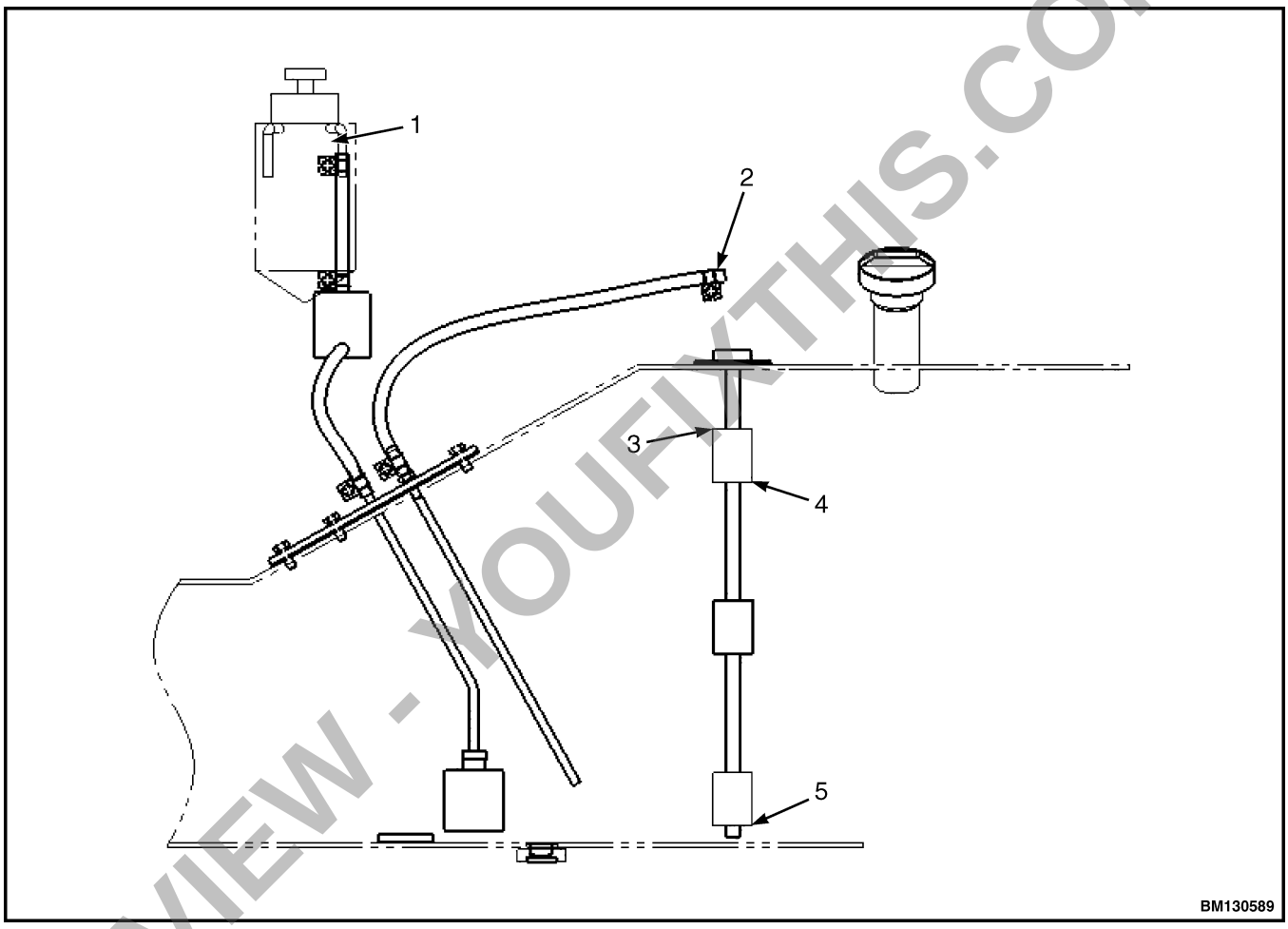
Fuel System

The fuel system is composed of a fuel tank, fuel quantity sensor, and fuel quantity indicator.

Fuel Tank

The fuel tank is a welded structure contained within the frame of the forklift truck. A fuel quantity sensor is located on the fuel tank cover to detect the fuel level within the tank. See Figure 5.

The capacity of the fuel tank is 108 liter (28.5 gal).



1. OIL WATER SEPARATOR
2. RETURN OIL PORT
3. FUEL LEVEL
4. FLOAT RISE
5. FLOAT DROP

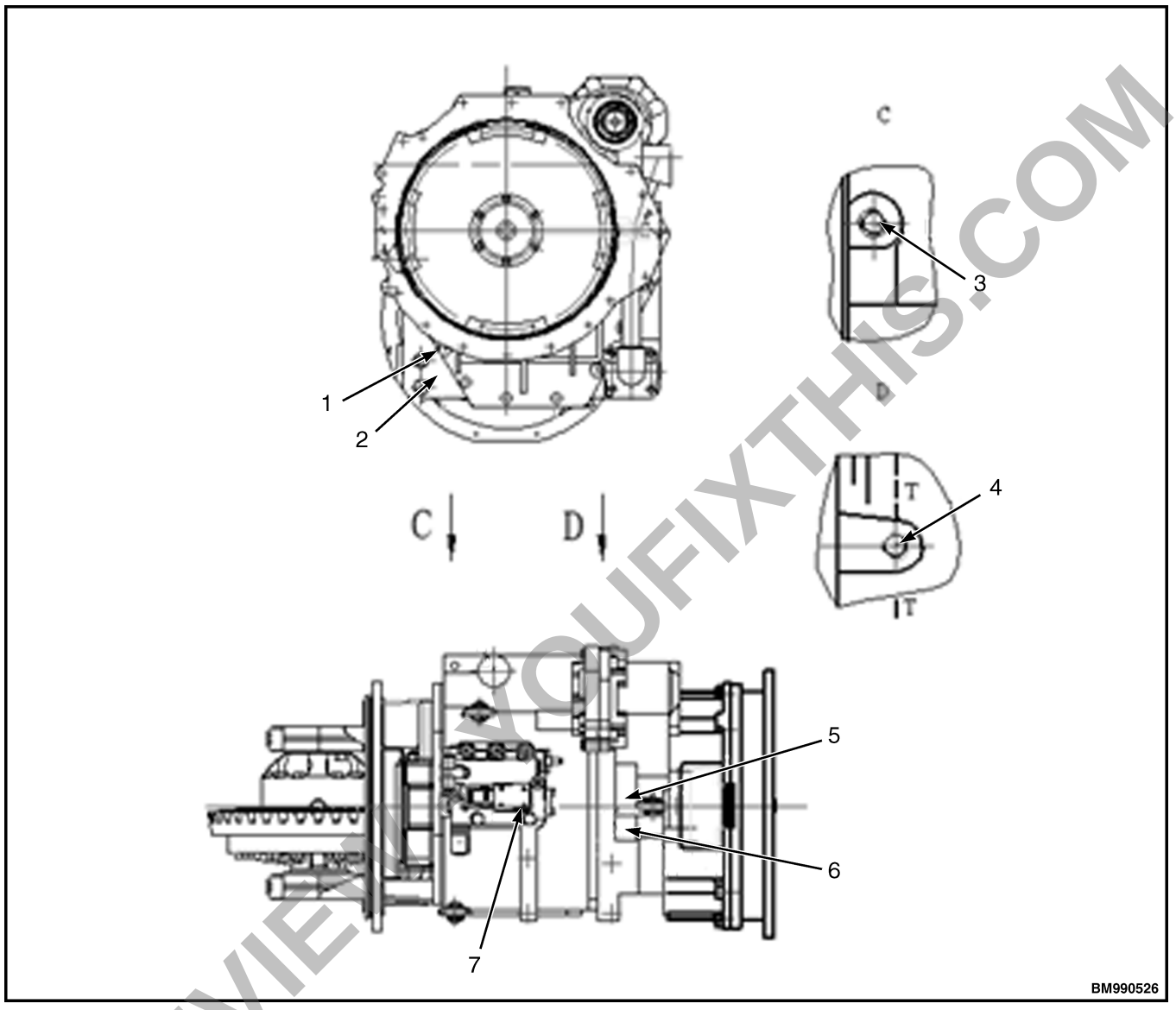
Figure 5. Fuel Tank (Diesel Forklift Truck)

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Oil Inlet/Outlet Connection Location

10. (Refer to Figure 17).



1. THERMOSENSOR FILLING POINT RC/3/4
2. DRAIN PLUG RC3/4
3. FROM OIL COOLER TO LUBRICATION INLET M20X1.5-6H DEEP 20
4. FROM TORQUE CONVERTER TO OIL COOLER M20X1.5-6H DEEP 20
5. MAIN OIL PRESSURE RC3/8
6. TORQUE CONVERTER OIL PRESSURE RC3/8
7. CLUTCH PRESSURE RC1/8

Figure 17. Location of Transmission Oil Ports

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Inspection

NOTE: The replacement intervals listed in the table are for 8 hours per day. If the lift truck is to be operated 24 hours per day or in a harsh environment, items should be replaced more frequently.

Engine Adjustment

The engine must be adjusted periodically to maintain optimal performance of lift truck. Follow the steps below to adjust the engine idle speed.

1. Adjust the idle speed (used for diesel engine).

   The idle speed of the diesel engine is governed by a speed limiter, which must be adjusted prior to the engine being installed, and can not be adjusted after the engine is mounted. The following steps describe adjusting the engine prior to installing.



Figure 3. Engine Adjustment

   a. Control the zero adjustment of the gear rack, and mount the control rack for measurement device onto the end face of control rack for oil injection pump.

   b. Align the zero position of control rack for measurement device with the zero position of the graduated scale.

   c. Fully tilt the control rod to increase fuel, and ensure that the control rack extends by more than 15 mm (0.6 in.).

   d. Fully tilt the control rod to shut off fuel, and ensure that the control rack is less than 1 mm (0.04 in.).

   e. Adjust the oil injection timing and injection speed.

   f. Adjust the pressure from the minimum negative pressure.

2. Check for air leaks by adjusting the negative pressure of the oil injection pump. See Figure 4.

3. Use the adjusting screw to adjust the smoke output. Never adjust screw for imported engines.

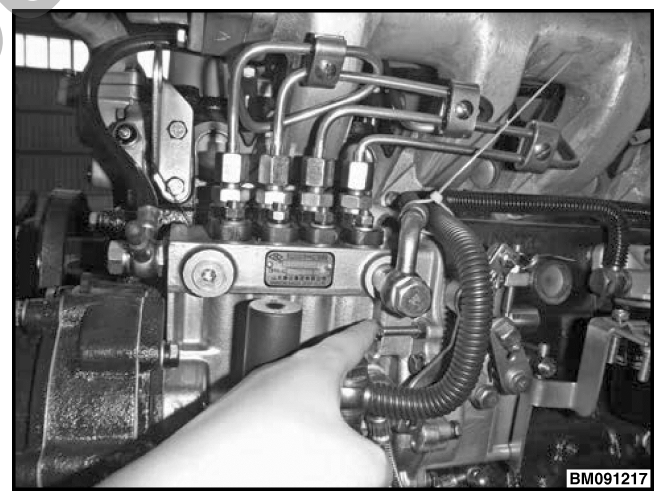


Figure 4. Engine Adjustment

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Steering System Failure

Problem	Failure Mode	Solution
Steering Wheel Fixed	Oil pump damaged or malfunctioning	To be replaced
	Priority spool blocked or damaged	To be cleaned or replaced
	Rubber hose joint damaged or pipeline blocked	To be cleaned or replaced
Hard Steering	Steering relief valve pressure too low	Adjust steering relief valve
	Air present in oil circuit	Air to be removed
	Reset of steering gear out of operation and positioning leaf spring broken or inelastic	Spring shim to be replaced
	Excessive internal leak of steering cylinder	Sealing of piston to be examined
Forklift Truck Swinging Walk	Excessive steering flow	Adjust steering relief valve, check physical components
Abnormal Noise	Oil tank level low	Oil to be added
	Suction pipe or oil filter blocked	To be cleaned or replaced
Oil Leak	Sealing or pipeline or joint damaged	To be replaced

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NOTE: Truck with diesel engine is shown. Other trucks are similar. The values in the parameter tables are for standard configuration only. Always consult the nameplate to see the values of a specific truck.

Table 1. Main Technical Parameters

		H4.0UT (H80UT)	H4.5UT (H90UT)	H5.0UT (H100UT)
Engine Model		S6S	S6S	S6S
Manufacturer		MITSUBISHI	MITSUBISHI	MITSUBISHI
Power Source		Diesel	Diesel	Diesel
Rated Capacity		4000 kg (8818.5 lb)	4500 kg (9920.8 lb)	5000 kg (11023.1 lb)
Load Center		500 mm (19.7 in.)	500 mm (19.7 in.)	500 mm (19.7 in.)
Lifting Height		3000 mm (118.1 in.)	3000 mm (118.1 in.)	3000 mm (118.1 in.)
Free Lift Height		150 mm (5.9 in.)	150 mm (5.9 in.)	160 mm (6.3 in.)
Mast Tilt Angle Forward/Back		6/12°	6/12°	6/12°
Max Lifting Speed	No-Load	530 mm/s (1.7 ft/s)	530 mm/s (1.7 ft/s)	530 mm/s (1.7 ft/s)
	Full-Load	500 mm/s (1.6 ft/s)	500 mm/s (1.6 ft/s)	500 mm/s (1.6 ft/s)
Running Speed	Forward	25 kph (15.5 mph)	25 kph (15.5 mph)	25 kph (15.5 mph)
	Back	25 kph (15.5 mph)	25 kph (15.5 mph)	25 kph (15.5 mph)
Max Traction Force	No-Load	23000 N (5168.5 lbf ft)	23000 N (5168.5 lbf ft)	23000 N (5168.5 lbf ft)
	Full-Load	24000 N (5393.3 lbf ft)	24000 N (5393.3 lbf ft)	24000 N (5393.3 lbf ft)
Gradeability	No-Load	20%	20%	20%
	Full-Load	20%	20%	20%
Minimum Turning Radius		2850 mm (112.2 in.)	2850 mm (112.2 in.)	2906 mm (114.4 in.)
Minimum Turning Radius Width K		4325 mm (170.3 in.)	4325 mm (170.3 in.)	4386 mm (172.7 in.)
Total Length L (Without Fork)		3210 mm (126.4 in.)	3210 mm (126.4 in.)	3275 mm (128.9 in.)
Total Width W		1490 mm (58.7 in.)	1490 mm (58.7 in.)	1490 mm (58.7 in.)
Total Height D (Mast Retracted)		2250 mm (88.6 in.)	2250 mm (88.6 in.)	2250 mm (88.6 in.)
Total Height E (Mast Extended)		4025 mm (158.5 in.)	4025 mm (158.5 in.)	4025 mm (125.5 in.)
Wheelbase F		2100 mm (82.7 in.)	2100 mm (82.7 in.)	2100 mm (82.7 in.)
Track Width	Front Q1	1190 mm (46.9 in.)	1190 mm (46.9 in.)	1190 mm (46.9 in.)
	Front Q2	1130 mm (44.5 in.)	1130 mm (44.5 in.)	1130 mm (44.5 in.)
Front Overhang B		575 mm (22.6 in.)	575 mm (22.6 in.)	580 mm (22.8 in.)
Rear Overhang C		535 mm (22.1 in.)	535 mm (22.1 in.)	595 mm (23.4 in.)
Fork Dimension	Length	1070 mm (42.1 in.)	1070 mm (42.1 in.)	1070 mm (42.1 in.)
	Width	150 mm (5.9 in.)	150 mm (5.9 in.)	150 mm (5.9 in.)
	Height	50 mm (2.0 in.)	50 mm (2.0 in.)	55 mm (2.2 in.)

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Table 4. H5.0UT6 (H110UT), H6.0UT6 (H135UT), and H7.0UT6 (H155UT) Diesel Forklifts (Continued)

Model		MITSUBISHI S6S-T
Engine Oil Pump		Cycloidal Pump
Water Pump		Eddy Current Type
Thermostat		Wax Type
Alternator	Voltage	24V
	Current	50A
Starter	Voltage	24V
	Output Power	5kw (6.7hp)
Battery	Voltage	2-90V
	Capacity	60Ah
Engine Oil		17.5 liter (18.5 qt)with filter

Table 5. Fuel, Lubricating Oil, and Other Requirements for Use on Diesel Engines

Item	Requirement	Remarks
Diesel Fuel	Choose the proper type of fuel oil according to the diesel engine operation and maintenance instructions. Or use GB252-2015 light diesel oil: Summertime 0#, wintertime -10~*35#	
Lubricating Oil	Application Specification: API: Above SD Grade (Equivalent to Above Chinese Q. Grade) SAE: For Normal Regions: 20W Cold Zones: 10w. To be replaced every 200 hours or 1 month	
Anti-Freezing Fluid (LLC-Long Life Coolant)	Equivalent to JIS K2234-1988, 2 Kinds LLC Concentration: Standard Zones (above -35°C (-31°F)) 50%. To be replaced every 2400 hours or 12 months.	
Fuel Filter	Replace every 2400 hours or 12 months.	
Engine Oil Filter	Replace every 600 hours or 3 months.	
Air Filter	Replace every 1200 hours or 6 months.	

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