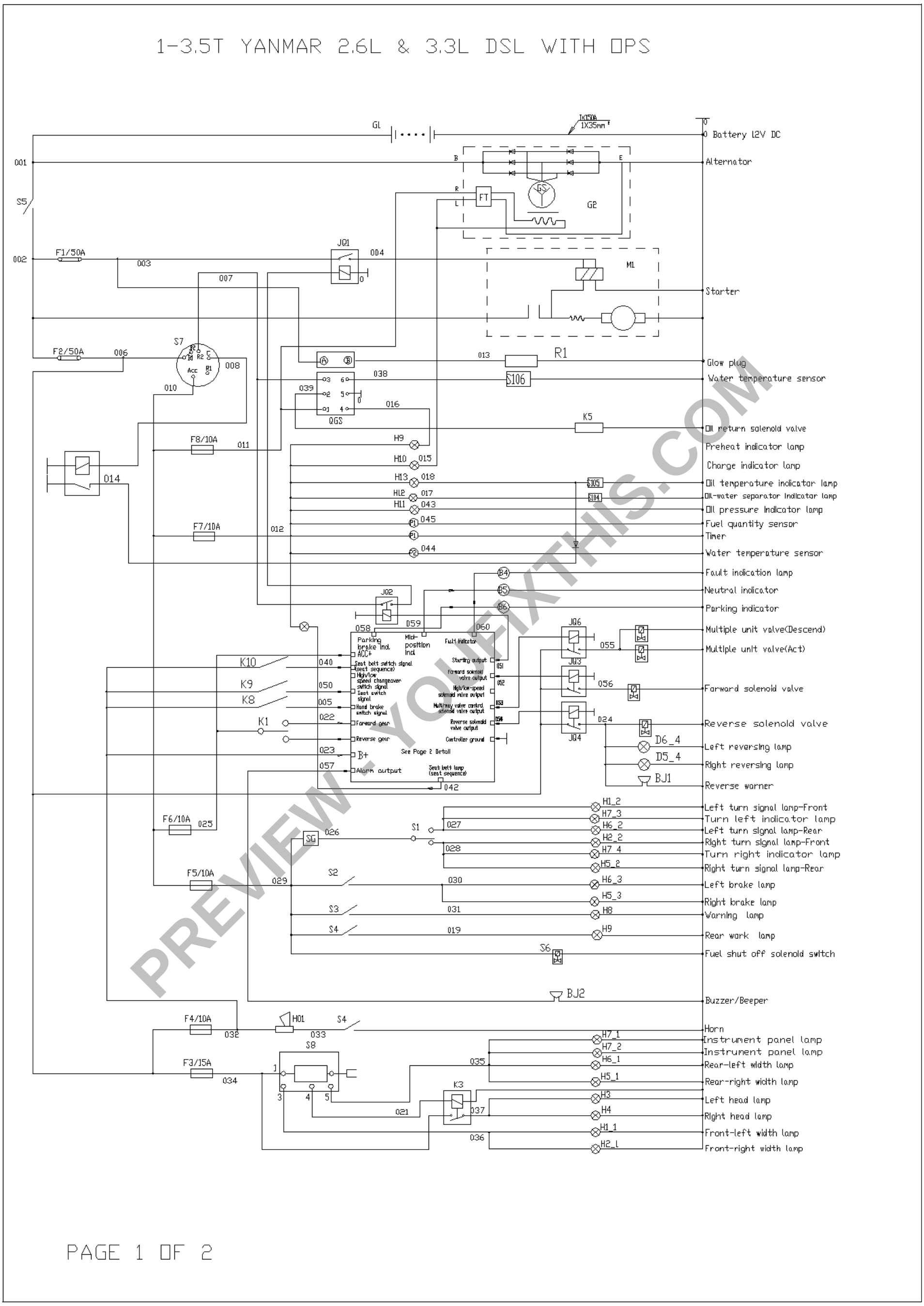
9.1 Schematics



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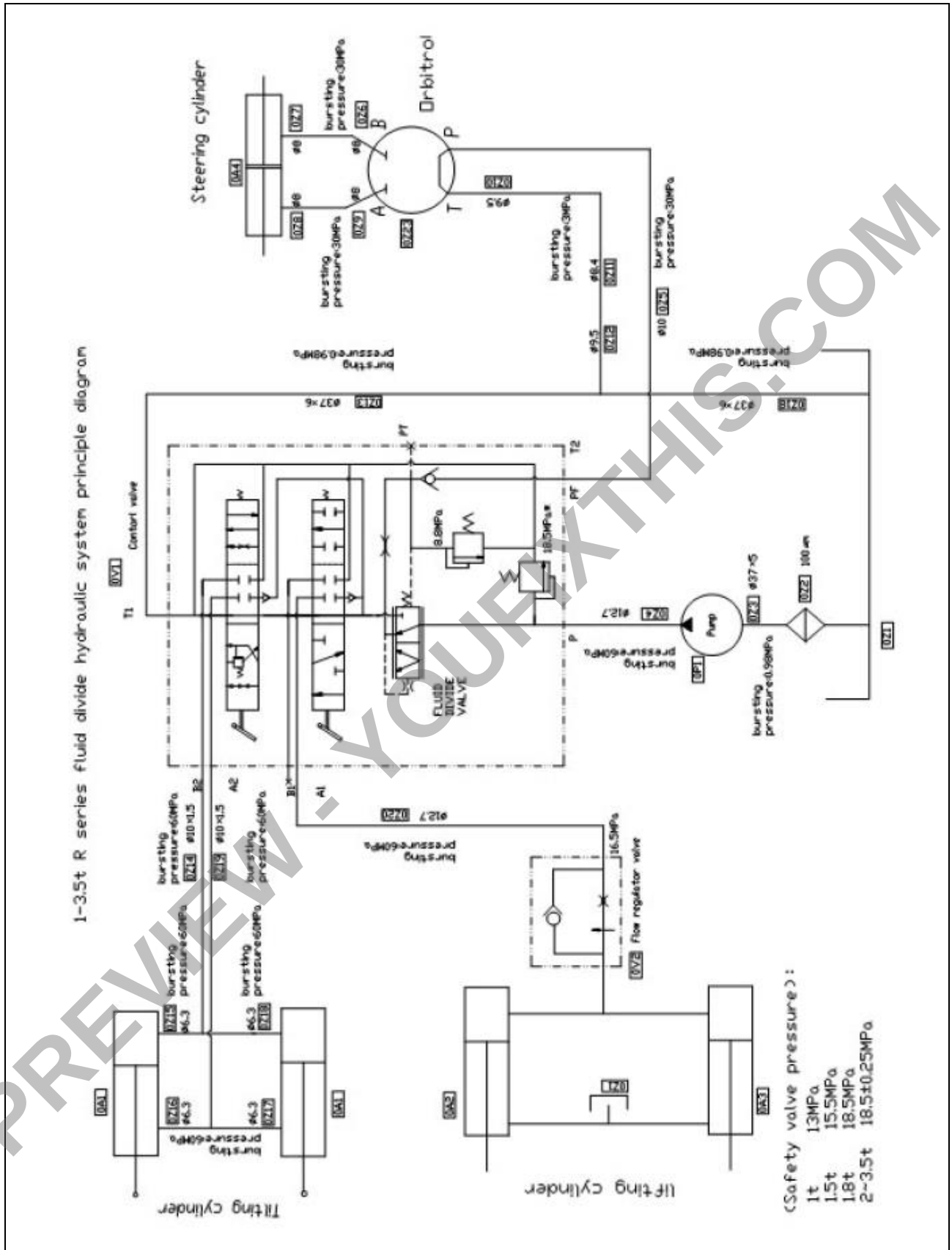
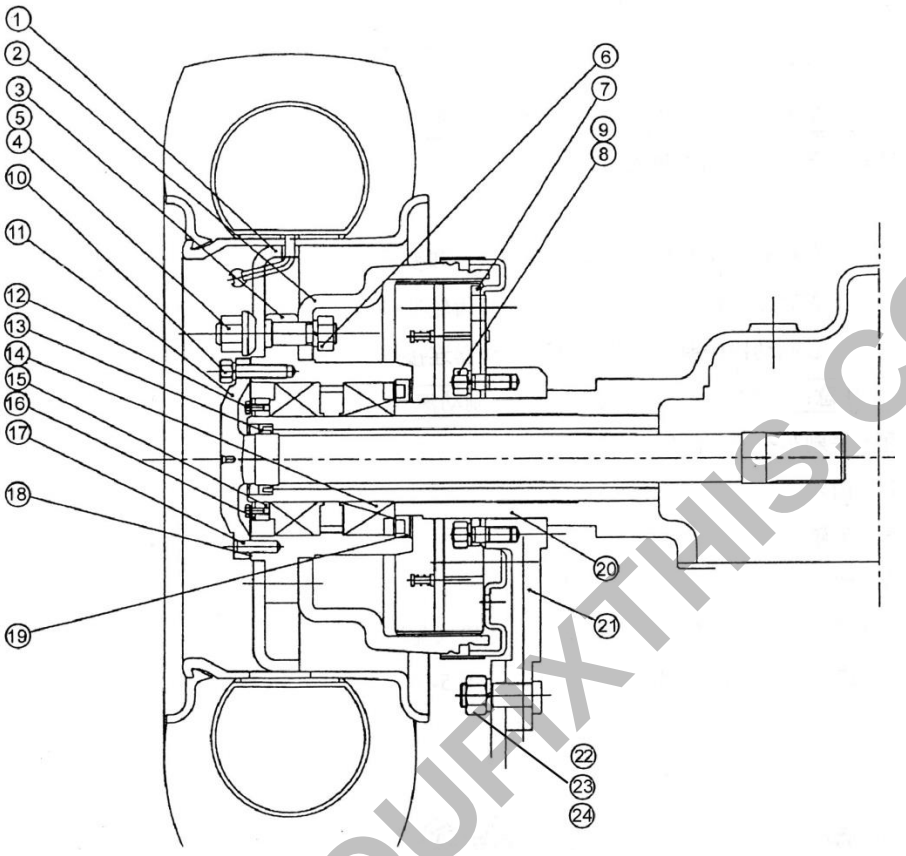


Fig. 7-5 (a) Hydraulic Schematic with Labeling

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3.3. Drive Axle Components



1.WHEEL RIM	2.BRAKE DRUM	3.HUB	4.WHEEL NUT
5.HUB BOLT	6.NUT	7.BRAKE DEVICE	8.WASHER
9.BOLT	10.DIFFERENTIAL SIDE SHAFT BOLT	11.DIFFERENTIAL SIDE SHAFT	12.BOLT
13.OIL SEAL	14.TAPERED ROLLER BEARING	15.ADJUST NUT	16.LOCK NUT
17.PIN	18.PAPER GASKET	19.OIL SEAL	20.AXLE HOUSING
21.SUPPORT SLEEVE	22.WASHER	23.NUT	24.BOLT

Fig. 3-1 (2 pc Hub & Drum)
Drive Axle < 02-01-2014

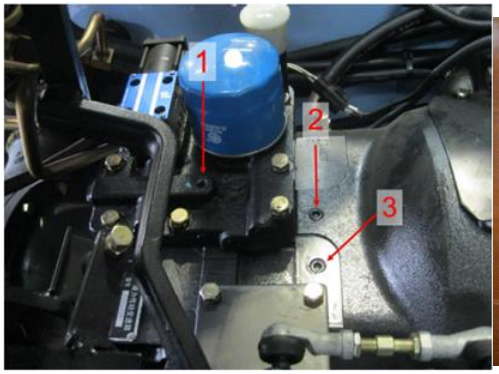
Tightening torque: N.m

Item #	2T-3.5T	Remarks
Support Plate Fixing Nut (#23)	324-373	Conical Surface On Wheel Hub Nut Doesn't Require Grease
Brake Drum Retaining Nut (#6)	324-373	
Brake Negatives Bolt (#9)	118-147	
Wheel Nuts (#4)	363-490	
Axle Bolt (#10)	58-78	

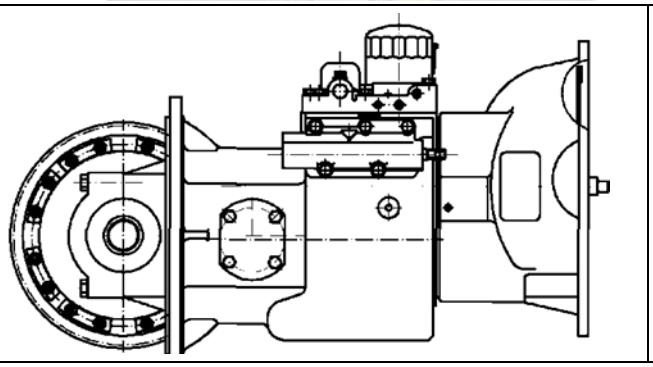
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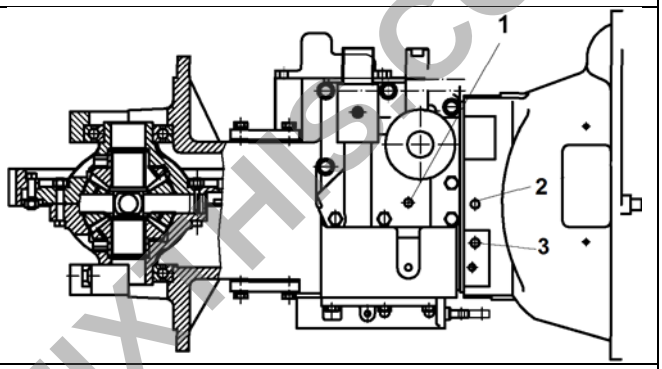
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2.3.3 Transmission Oil Pressure Measurement Procedure









Measurement procedure: Use gauge rated for 2.5MPa

1. Vehicles parked on a solid level surface, pull the parking brake lever, gear position in the neutral position, the mast tilt, fork dropped to the ground, vehicle turned off;

2 Remove the front floor plate. Pressure meter should be rated for 2.5MPa

Clutch Pressure Measurement 1：

（1）With Allen wrench unscrew oil drain plug；

（2）Connect the oil pressure gauge, the interface is Rc 1/8 (adapter 76502624), and tighten；(Quick disconnect 76502623)

（3）Open the key switch, observe the pressure gauge readings,

Normal pressure: 0.3MPa; (Forward/Reverse Clutch Pressure 1.1-1.4Mpa)

（4）Turn off Engine, loosen the pressure gauge connector:

（5）Replace the drain plug。

Main oil pressure measurement 2：

（1）With Allen wrench unscrew oil drain plug;

（2）Connect the oil pressure gauge, the interface is Rc ¼ (adapter 76502700) and tighten

（3）Open the key switch, observe the pressure gauge readings,

Normal pressure：1.1-1.4MPa;(159-203 psi)

（4）Turn off Engine, loosen the pressure gauge connector:

（5）Replace the drain plug。

Torque converter oil inlet pressure measurement 3：

（1）With Allen wrench unscrew oil drain plug;；

（2）Connect the oil pressure gauge, the interface is Rc ¼ (adapter 76502700) and tighten

（3）Open the key switch, observe the pressure gauge readings,

Normal pressure：：0.5-0.7MPa; (72-101 psi)

（4）Turn off Engine, loosen the pressure gauge connector:

（5）Replace the drain plug

3.Replace the front floor plate

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3. Drive Axle

3.1. Data

Drive Axle Type	Full Floating, Axle And Truck Body Direct Install, Front Wheel Driving
Tire Pressure	$(7\pm0.2)X10^5$pa
Wheel Hub Rotation Starting Torque At Hub Bolt Nm	10-29
Axial Play Of Wheel Bearing Mm	Less 0.08

3.2. Fault Diagnoses and Corrections

Condition	Probable Cause	Corrective Action
Abnormal Noises	• Loose Driving Axle and Body Connecting Bolts. • Loose Wheel Nut • Worn Or Damaged Wheel Hub Bearing. • Wheel Hub Bearing Not Properly Adjusted. • Worn Axle Shaft Spline. • Insufficient Lubrication	Tighten Tighten Replace Adjust Replace Lubricate
Unstable Driving	• Loose Wheel Nut. • Deformed Wheel. • Worn Or Damaged Wheel Hub Bearing. • Loose Driving Axle and Body Connecting Bolts • Wheel Hub Bearing Not Properly Adjusted. • Improper Tire Pressure	Tighten Replace Replace Tighten Adjust Adjust
Oil Leakage	• Worn Or Damaged Axle Shaft Oil Seal. • Final Drive Improperly Installed. • Loose Drain Plug.	Replace Replace Gasket Tighten

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1. Powertrain

1.1 Engines

Parameter \ Engine	Yanmar Diesel	
	4tne92-Hrj	4tne98-Bqflc
Rated Output	32.8 Kw	42.1 Kw
Rated Rotate Speed	2450 RPM	2300 RPM
Max. Torque N·M/ Speed	149.4/1600 RPM	186nm/1700 RPM
206 Kg	194 Kg	194 Kg
Forklift Truck Model	Ut20/25p (4tne92)	Ut30/35p (4tne98)

Parameter \ Engine	Mazda	
	2.2L LPG	2.2L Dual
Rated Output	37 Kw	37 Kw
Rated Rotate Speed	2700 RPM	2700 RPM
Max. Torque N·M/ Speed	135N·M / 1900 RPM	135N·M / 1900 RPM
Service Weight	158 Kg	161 Kg
Forklift Truck Model	UT20P UT25P UT30P UT35P UT25C UT30C	UT20P UT25P UT30P UT35P UT25C UT30C

Parameter \ Engine	PSI	
	2.4l Lpg	2.4l Dual
Rated Output	47.1 Kw	49.8 Kw
Rated Rotate Speed	2600 RPM	2600 RPM
Max. Torque N·M/ Speed	168.0 N-M / 1600 RPM	169.7 N-M / 2400 RPM
Service Weight	206 Kg	206 Kg
Forklift Truck Model	Ut20p Ut25p Ut30p Ut35p Ut20c Ut25c Ut30c Ut32c	Ut20p Ut25p Ut30p Ut35p

See the chart below for the powertrain configuration of the 2-3.5T forklift trucks. For detailed information on technical parameters, structure, and specific maintenance services for the engine, see the engine maintenance or service manuals

After the engine has been serviced, emissions values should be checked. Emission values should comply with the corresponding stipulations. See the table below for exhaust emissions values

Engine Power (kW)	CO (g/kW·h)	HC (g/kW·h)	NO_2 (g/kW·h)	PT Particles (g/kWh)
18≦P<37	5.5	1.5	8	0.8
37≦P<75	5	1.3	7	0.4

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1.4.2 The Maintenance of 4TNE92/98 Diesel

Diesel fuel requires high quality maintenance of the air cleaner and fuel filter.

1.3.2.1 Changing the Air Cleaner

Dry paper model

Change the filter according to the maintenance schedule. If operating in a dusty environment, the air cleaner should be changed more frequently.

1.3.2.2 Check the Oil Filter

Check and change the oil filter

（1）Remove the head of the sensor from the oil filter.

（2）Loosen the valve to drain the fuel.

（3）Remove the sensor from the oil filter or draining valve.

（4）Remove the oil filter.

（5）Connect the oil sensor to the new oil filter.

（6）Install the new oil filter.

The oil filter should only be tightened manually.

（7）Connect the sensor head.

（8）Remove air from the system.

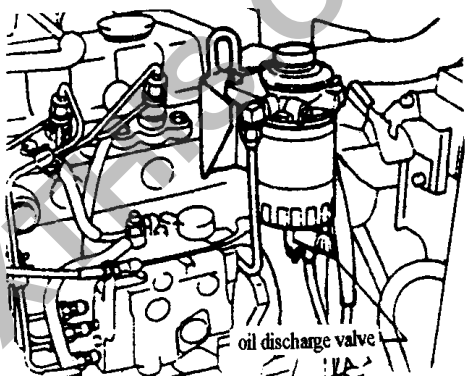
Follow same procedure as described in Step 2.2.4

Drain water

（1）Water should be drained according to the maintenance schedule, or when an alarm signals there is a problem.

（2）Remove air from the system.

（3）Make sure there is a container under the oil filter.



1.3.2.3 Filter the Diesel Oil

Used diesel oil should be filtered before it is added to the oil container.

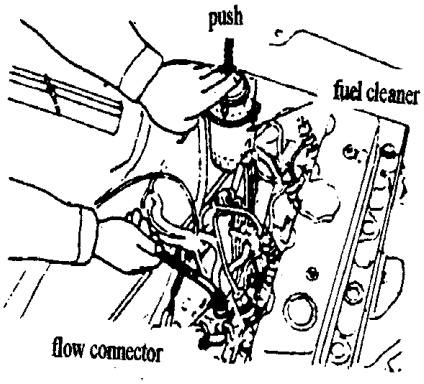


1.3.2.4 Bleed the Fuel of Air

All air must be bled from the fuel. To avoid splashing oil, the bottom of the motor and pump should be wrapped by a piece of cloth.

If the motor still doesn't run after bleeding the air, loosen the ejection pipe; shake the start-up motor until fuel flows out of ejection pipe. Tighten the nut of the ejection pipe.

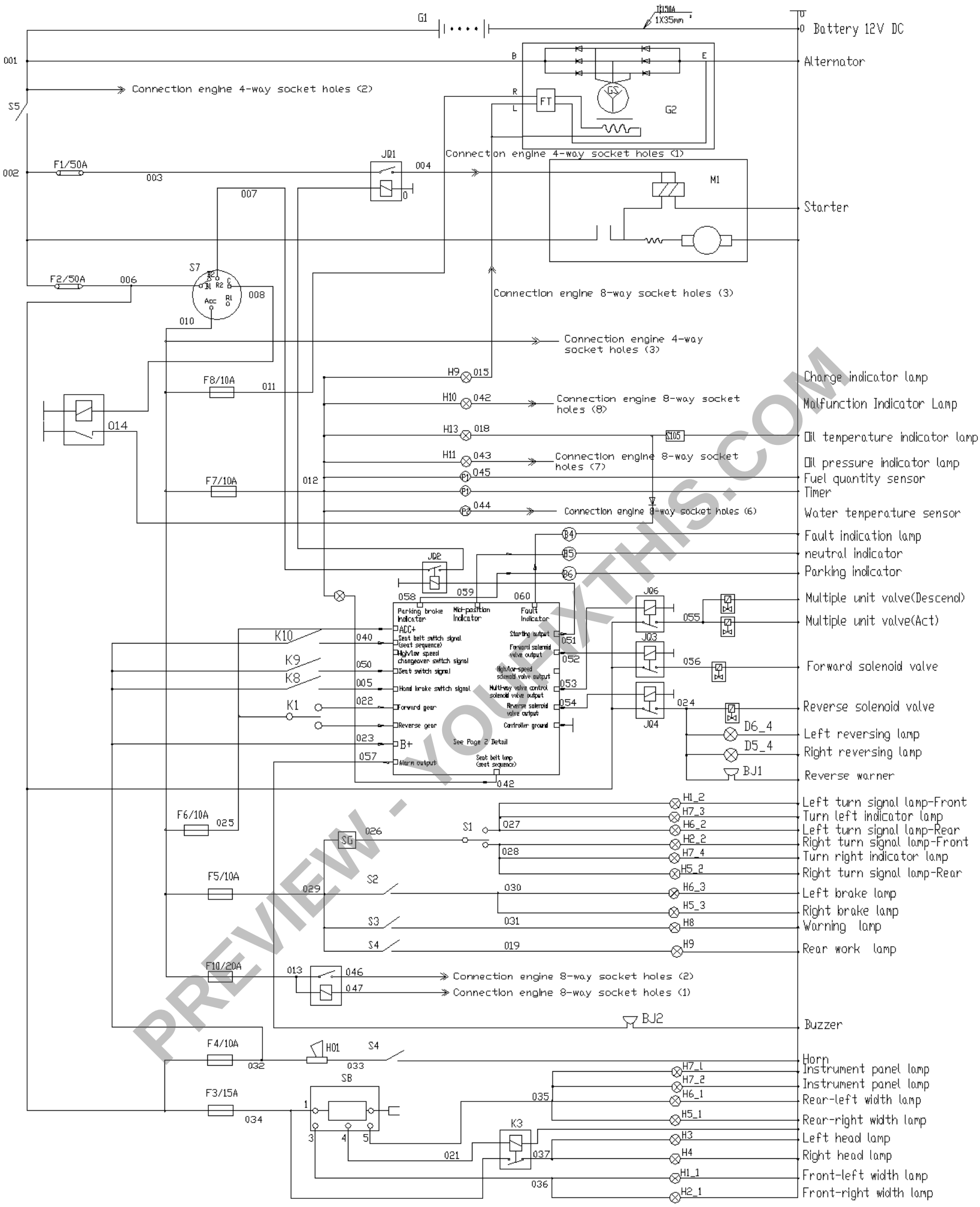
If the motor operates erratically, run two or three times at high speed.



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2-3.5T (P) (C) (MAZDA 2.2L LPG) ELECTRICAL SCHEMATIC WITH OPS



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