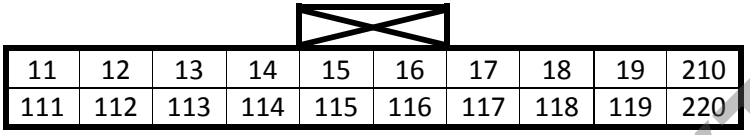
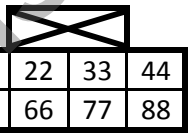
1. Wire Harness End View and Pin Definition

A- 20 pin plug



11	12	13	14	15	16	17	18	19	210
111	112	113	114	115	116	117	118	119	220

B 8 pin plug



11	22	33	44
55	66	77	88

Pin	Function Definition
A1	Controller Power + (+12 V)
A2	Power Ground
A3	Power Ground
A4	Battery +
A5	Parking brake light outlet (high efficiency)
A6	Mast lifting and lowering output (high efficiency)
A7	High- and low-speed solenoid valve (high efficiency)
A8	Reverse solenoid valve (high efficiency)
A9	Forward solenoid valve (high efficiency)
A10	Output on (high efficiency)
A11	+12V reserved, for external connection to power supply of indicator light, not for connection to large current loading. (cancelled)
A12	Power Ground
A13	BATT+ reserved, for external connection to power supply of indicator light, not for connection to large current loading. (cancelled)
A14	Seat switch (high efficiency)

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9.2 Torque Specifications

Unit：N•m

Bolt Diameter mm	Bolt Strength Grade			
	4.6	5.6	6.8	8.8
6	4-5	5-7	7-9	9-12
8	10-12	12-15	17-23	22-30
10	20-25	25-32	33-45	45-59
12	36-45	45-55	58-78	78-104
14	55-70	70-90	93-124	124-165
16	90-110	110-140	145-193	193-257
18	120-150	150-190	199-264	264-354
20	170-210	210-270	282-376	376-502
22	230-290	290-350	384-512	512-683
24	300-377	370-450	488-650	651-868
27	450-530	550-700	714-952	952-1269
30	540-680	680-850	969-1293	1293-1723
33	670-880	825-1100	1319-1759	1759-2345
36	900-1100	1120-1400	1694-2259	2259-3012
39	928-1237	1160-1546	1559-2079	2923-3898

ATTENTION:

- Use grade 8.8 bolts and screws for all important connections.
- Grade marked on head. Unmarked bolts are grade 8.8.

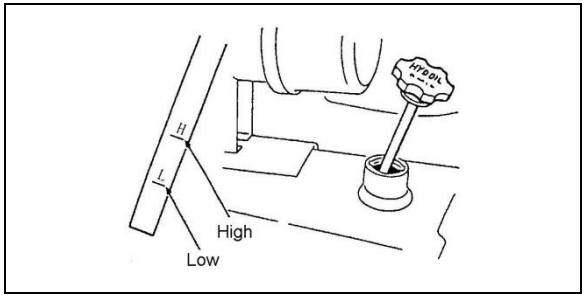
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6. Hydraulic Oil Level

Check the oil level in the hydraulic oil tank.

The oil level should be between the two marks.



7. Brake Fluid Level Check

Check the fluid level in the brake fluid reservoir. The level should be between the two seams of the reservoir. When adding fluid, due care should be taken to prevent air from entering the brake tube.

⚠ Caution：

When adding fluid, due care should be taken to prevent dirt or water from entering the reservoir.

Brake fluid is dangerous to your health. You should always avoid contact with skin.

Replace brake oil

（1）Place forklift truck on level ground, place forks on the ground, apply park brake, put transmission gear into neutral position, and cut off engine.

（2）Remove rubber dustproof cap of oil-drain port, insert tube into oil-drain port and waste oil collection bottle, and loosen oil-drain screw. At the same time, have another in truck press brake pedal repeatedly. The brake oil should flow from oil-drain port, watch the liquid level of brake fluid reservoir, add new oil until the oil from oil-drain port is clean, and then screw down screw of oil-drain port.

（3）Have the person in truck depress brake pedal all the way and hold it there. At the same time, have the person at the oil-drain port loosen oil-drain port screw, and tell the person on truck to release brake pedal when the brake oil flows out and screw down oil-drain port screw. Repeat above operation several times until there are no bubbles in the brake oil. Watch the liquid level in brake oil reservoir; add new brake oil as the liquid level is falling.

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5. Maintenance

See《Preventive maintenance schedule》for further information.

5.1 Daily Maintenance（8 hours）

1. Check Leaks

Check LPG, electrolyte, hydraulic oil, brake fluid, coolant, and oil in hydraulic transmission gear box**.**

Check the engine, hydraulic pipe connector, radiator and driving system for leaks. DO NOT use an open flame to check levels.

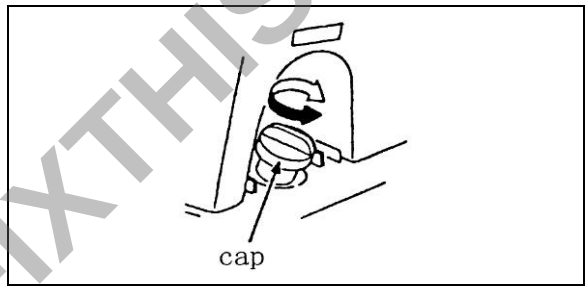
> ⚠ **Warning：**
> DO NOT operate truck if leaked fuel is found following pre-operational checks. Correct the leak before starting engine.

2. Check appearance

Visually check the lamps and meters for problems.

Check the tires, tire pressure and the entire truck for loose bolts

3. Check Fuel Mass



A fuel level gauge is provided on the indicator panel. Make sure the fuel level is sufficient for the day's work. The fuel filler port is located at the rear left pillar of the overhead guard.

4. Engine Oil Level Check

> ⚠ **Caution：**
> When checking the engine oil, place forklift on level ground, set parking brake and lower forks to the ground.
> Check engine oil when the engine is cool.

Remove the dipstick, clean the rod and reinsert. Pull it out again and check the oil level. The level should be within the marks on the dipstick.

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7. Operation

Warning:

Before operating the truck, check all controls and warning devices for proper operation. If any damage of fault is found, don't operate truck until corrected.

7.1 Start-up

Starting gasoline engine

(1) Make sure that the shift lever(s) and loading levers are in neutral and hold positions.

(2) Cold engine.

Pull out the choke button fully. Depress the accelerator pedal to the floor two or three times and release it. With your foot OFF the pedal, crank the engine by turning the ignition key to "START". Release key when engine starts.

(3) Warm engine

Do not pull out the choke button. Press down the accelerator pedal halfway and cold crank the engine by turning the ignition key to "START". Release key when engine starts.

Caution:

The time to start should be less than 5 seconds each attempt, and the interval between attempts should be at least 2 minutes.

After engine has started

Check the rotation (sound or gear) of the engine.

·Check the combustion (or misfiring) sound.

·Check the condition (density) of exhaust.

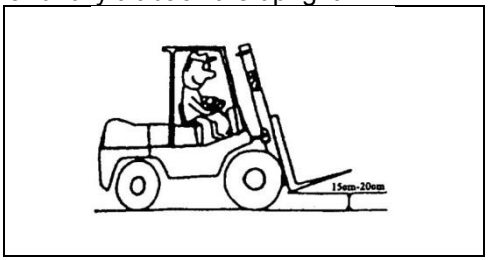
Make sure that all the warming lamps are off.

·After thoroughly warming up the engine, operate the loading levers 2 to 3 times in their full stroke and check their working conditions.

7.2 Traveling

Hold the knob on the steering wheel with your left hand and get the right hand ready for the controls, lightly putting it on the wheel.

Set the bottom of the fork 15 to 20 cm above the ground and fully tilt back the upright.

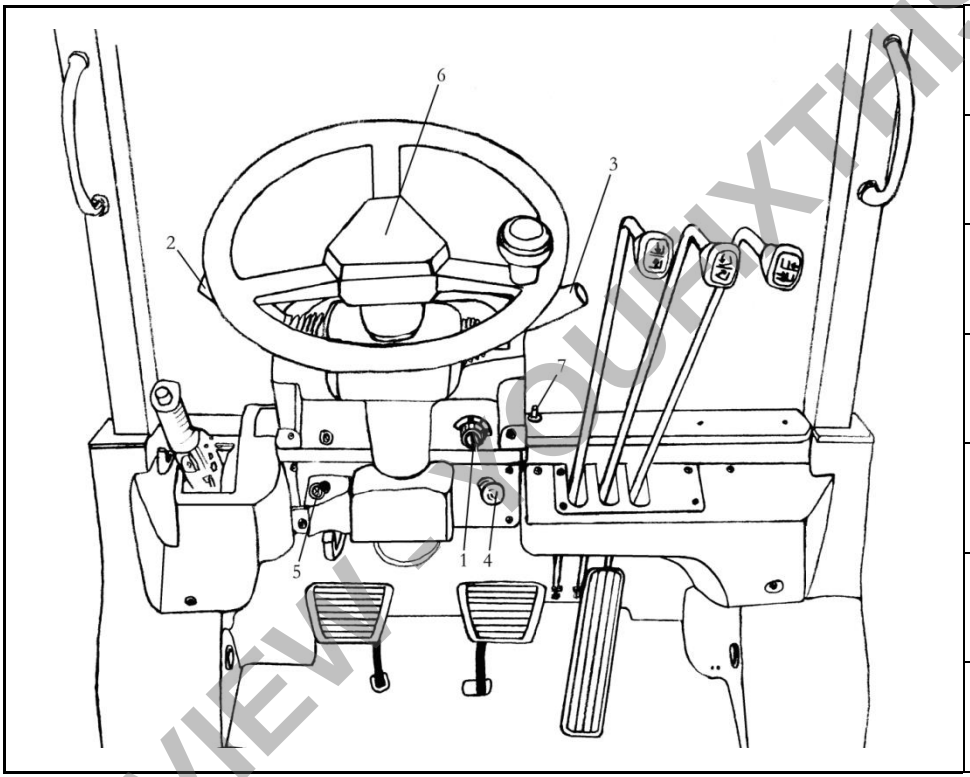


Check the safety around the machine and give a signal when starting the engine.

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2.2 Switches



1. Key
2. Reverse lever
3. Turn signal lever
4. Light switch
5.Strobe light switch
6. Horn button
7. Fuel Selection switch

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17. Use Installation and Safety Rules of Attachment

The attachment is in accordance to International standard ISO2328《Hook-on type fork arms and carriages - mounting dimensions》, such as clamp, rotator, paper roll clamp, carrying ram, side-shifter etc.

Attachment Use

（1）Understand the contents listed on the nameplate of the attachment, read the instruction manual before operating attachment.

(Especially the manual from attachment company) Before operating the attachment, personnel should be properly trained and qualified.

（2）The Basic capability and operating methods of attachment should be understood, especially the admit load, lift height, size of cargo and adapt range of attachment.

（3）When operating the multi-functional attachment, such as with side-shifter, clamp or rotator, only operate one function at a time.

（4）DO NOT move a truck with attachment when load is in a high position. If the size of cargo is too large, DO NOT move the truck. When transporting cargo, ensure ground clearance between the bottom of cargo and ground is less than 300mm and the mast is inclined back.

（5）The weight of cargo shouldn't exceed the combined limit of the carrying capacity of forklift and attachment. It is not allowed to have a partial load at high position. It is a short time work for attachment with side-shifter. Partial load is around 100mm (Above 5 ton (including 5 ton), the side-shifter is movable within 300mm.

（6）In the range of the projection forth 2m of the lower of attachment and cargo, prohibit stand to avoid the suddenness except the driver position under overhead.

（7）DO NOT apply emergency brake while moving. Travel slowly with load.

（8）Prohibit outside force when attachment working.

（9）DO NOT operate attachment beyond normal parameters.

（10）When the attachment malfunctions, prohibit use without check.

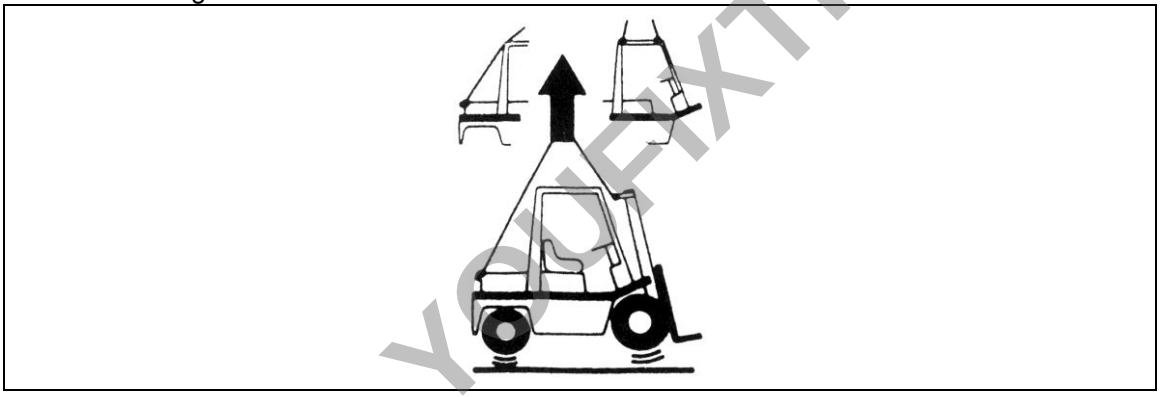
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11. Truck Transporting, Lifting, Towing

Hoist the truck

Use steel wire ropes through the holes in the two sides of the outside mast's beam and the hook of the counter balance, then use the lifting device to hoist the truck.



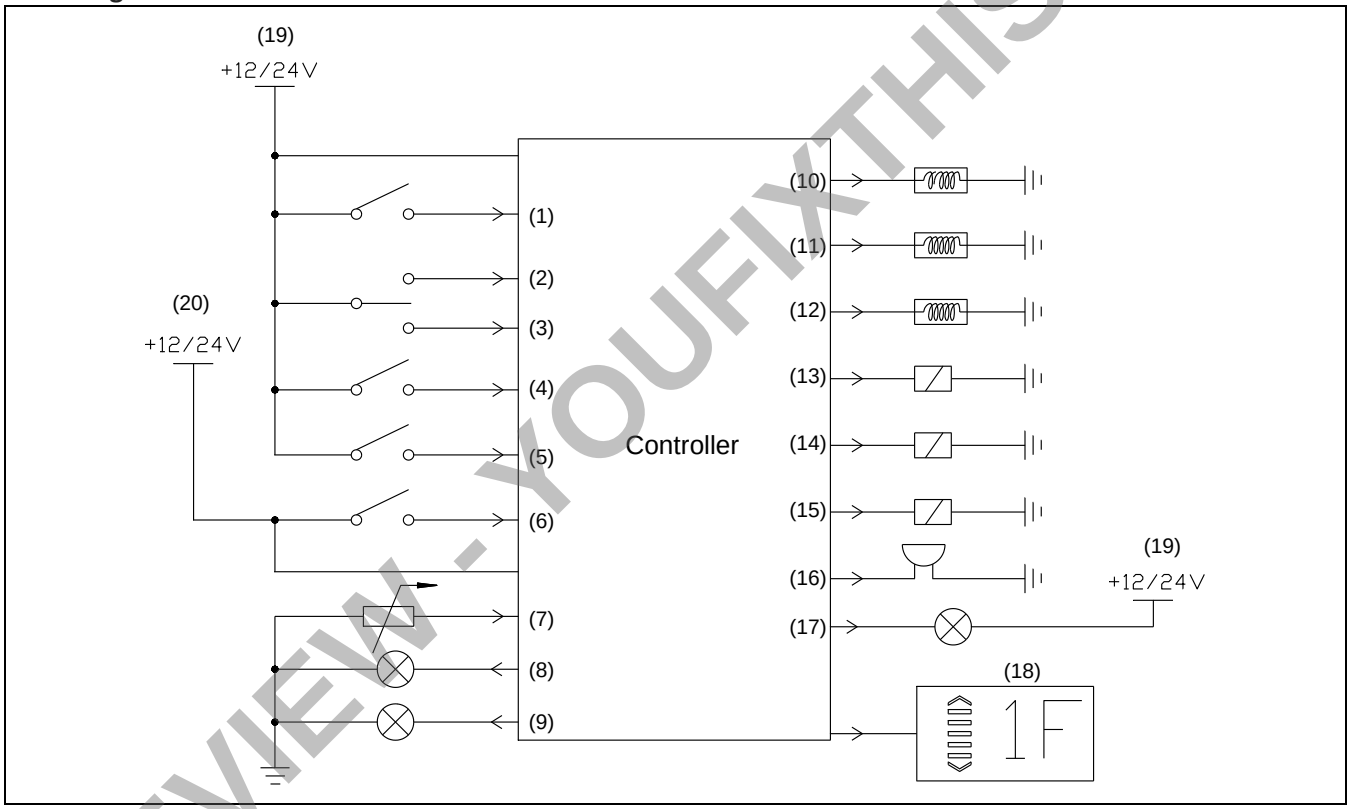
⚠ Warning:

·When hoisting the truck, DO NOT coil the overhead guard with the steel wire.
·The steel wire ropes and the lifting device must be very firm to support the truck because the truck is very heavy.
·DO NOT lift the truck by the overhead guard.
·When lifting the truck, stay clear of the area underneath the truck.

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2. Wiring

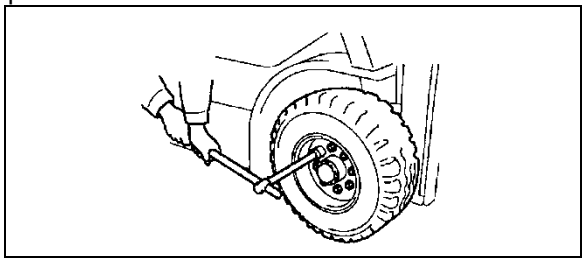


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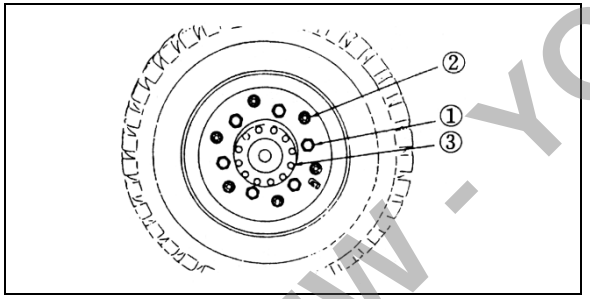
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9. Hub Nut Torque Check

Check that hub nuts are tightened to the specified torque.



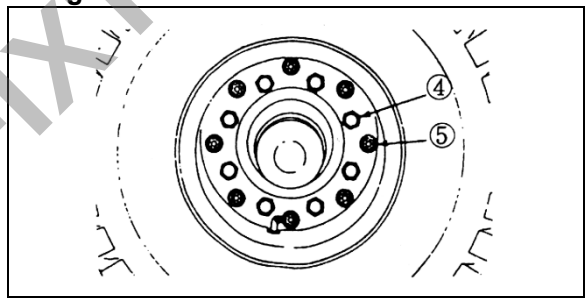
Driving Wheel （Front Wheel）



1- Hub nut
2- Divided rim bolt
3- Drive shaft bolt

Specified Torque N.m	
Capacity	2-3.5T
Hub nut	441-588

Steering Wheel（Rear Wheel）



4- Rear hub nut

Specified Torque N.m

Capacity	2T-3.5T
Hub nut	157-176

5- Divided rim bolt

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5.3 Monthly Maintenance (166 Hours)

Increase the below content based upon weekly maintenance.

1. Change Engine Oil And Oil Filter

（1）Start the engine, warm-up thoroughly, then shut off.

（2）Remove the cap from the oil filling port and the discharge plug from the oil pan. Let the oil flow out.

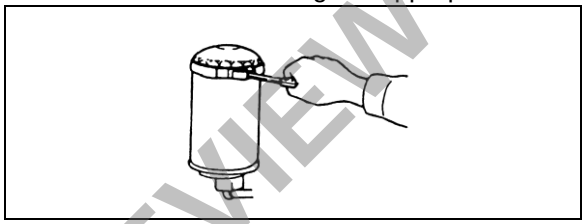
> ⚠ **Caution：**
> Engine oil may be very hot.

·Milky engine oil indicates that the coolant has infiltrated the oil. Contact an authorized technician for repair.

·Very thin oil indicates that the oil contains gasoline. Contact an authorized technician for repair.

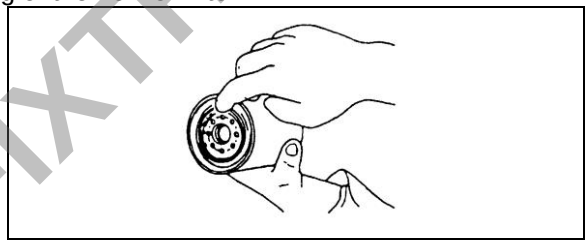
（3）Drain plug tightening torque: : 29 N·m-39 N·m

（4）Detach the oil filter using the appropriate tool.



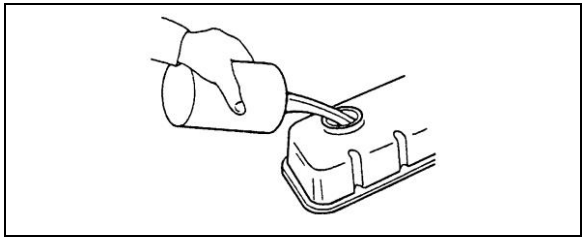
（5）Wipe the mounting surface of the oil filter with a clean cloth..

（6）Apply a small amount of engine oil to the rubber ring of the new oil filter.



（7）When installing a new oil filter, hand-tighten only. Do not tighten with a wrench.

（8）Refer to the Forklift Truck Fluid Use Chart and add the recommended engine oil.



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		Every			
Check Item	Service required	1 months (166hrs)	3 months (500 hrs)	6 months (1000hrs)	1 year (2000hrs)
Engine	1. Check the valve clearance is correct	First time O	O	O	O
	2. Replace engine oil（1）	First time ×	×	×	×
	3.Replace the oil cleaner（1）	First time ×	×	×	×
	4. Replace the air cleaner element	First time ×	×	×	×
	5. Drain the water of oil water separator （diesel engine）	O	O	O	O
	6.Clean the exterior of radiator（1）	O	O	O	O
	7. Clean or replace the filter element of air cleaner	O	O	×	×

The remaining part of engine maintenance, refer to engine manual.

NOTE:

(1) If the work place has a lot of dirt or other pollutants, time between maintenance intervals should be decreased.
(2) If problems like loss of engine power, sudden increase in truck noise, or black smoke occur, check the truck immediately. The problems may be corrected by adjusting the diesel nozzle pressure and fuel atomization

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