1. Wire Harness End View and Pin Definition

A- 20 pin plug

11	12	13	14	15	16	17	18	19	110
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)
A15	Parking brake switch (high efficiency)
A16	High and low speed changeover switch Closing corresponds to high speed

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Item	Service Required	Every			
		1 months (166hrs)	3 months (500hrs)	6 months (1000hrs)	1 year (2000hrs)
Engine	1. Check intake/exhaust valve gaps	First Time O	O	O	O
	2. Retighten cylinder head bolts	First Time O	O	O	O
	3. Replace engine oil (1)	First Time ×	×	×	×
	4. Replace oil filter (1)	First Time ×	×	×	×
	5. Replace the fuel filter	First Time ×	×	×	×
	6. Check the distributor contact points, cap, and rotor (gasoline engine) (1)		O	O	O
	7. Drain water from the oil-water separator (diesel engine)	O	O	O	O
	8. Clean exterior of radiator (1)	O	O	O	O
	9. Clean or replace the air filter element	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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11. Performance Parameters of IC Forklift

Model	UT15P (4TNE92)	UT18P (4TNE92)	UT20P (4TNE92)	UT25P (4TNE92)
Rated Capacity (kg)	1500	1750	2000	2500
Load Center (mm)	500	500	500	500
Max. Lifting Height (mm)	3000	3000	3000	3000
Free Lifting Height (mm)	155	155	140	140
Max Lifting Speed (mm/s)	560	560	530	535
Tilting Angle (°)	6/12	6/12	6/12	6/12
Max. Traveling Speed (km/h)	15	15	20	20
Max. Grade Ability (%)	20	20	20	15
Min. Turning Radius (mm)	1970	2005	2260	2320
Ground Clearance (mm)	115	115	105	105

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8.2 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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4.3 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 enough, then shut off.

（2）Remove oil cover and bottom shell to plug, release the oil.

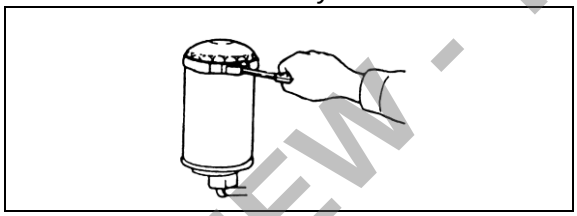
> ⚠ **Caution：**
> Be careful with the hot oil.

·Milky oil shows there is some cooling fluid in it, find out the reason and correct.

·Oil is very thin show that the oil contains gasoline.

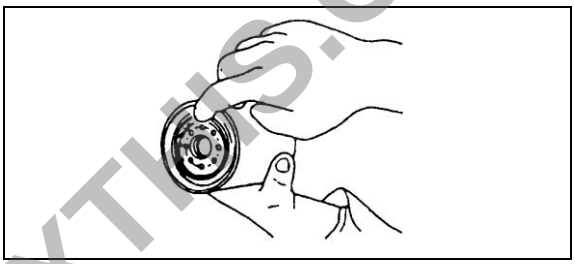
（3）Wipe up and fit tuck and gasket.
Screws down moment of oil tuck: 29-39 N·m

（4）Dismantle the oil filter by tool.



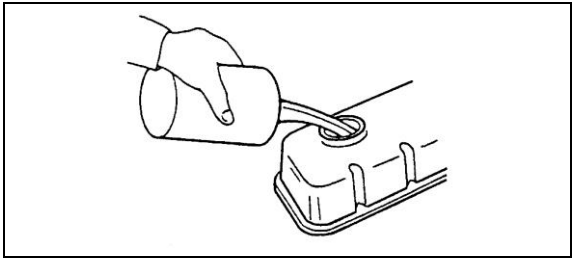
（5）Use cloth clean the surface of oil filter.

（6）Lay on little oil on the rubber ring of new oil filter.



（7）Install new oil filter by hand, not tools.

（8）Reference **<<Table for the Oil Used in the Truck>>** to find recommended oil.



（9）Start the engine, check for oil leaks around oil tuck and filter.
If the leak is excessive, the part has not been installed correctly.

（10）Warm-up engine, then shut-off and check oil level, fill if needed. To check the oil fluid level, place truck on level ground.

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6. Operation

⚠ Warning：

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

6.1 Starting

Starting Diesel Engine

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

Turn the ignition switch to ON position after turning the ignition switch to START position.

⚠ CAUTION:

If engine does not start within 5 seconds, switch to OFF, and try again after 2 minutes.

If engine does not start after 3 consecutive times of trying and waiting 2 minutes, do a complete check of the truck.

If the temperature is lower than –5°C, crank the engine by turning the ignition key to “START”. Release key when engine starts.

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 knob 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 knob. Press down the accelerator pedal halfway and cold crank the engine by turning the ignition key to “START”. Release key when engine starts.

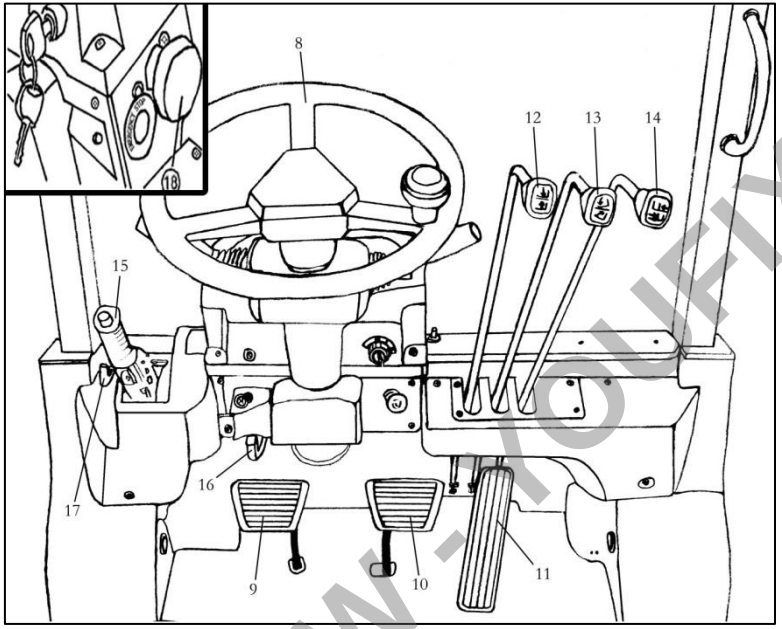
⚠ CAUTION:

Do not press down the accelerator pedal fully when starting warm engine. This will make the engine more difficult to start. The time to start should be less than 5 seconds each attempt, and the interval between attempts should be at least 2 minutes.

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2.3 Controls



8. Steering wheel
9. Inching pedal
10. Brake pedal
11. Accelerator pedal
12. Lift/lower lever
13. Tilt lever
14. Side shift lever
15. Parking brake lever
16. Steer column tilt adjustment
17. Hood latch
18. Emergency Power Shut-Off Switch (if equipped)

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16. Use, Installation and Safety Rules of Attachment

Select attachments in accordance with application needs and acquired from authorized dealer or factory installed per nameplate on forklift truck.

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 before fixing.

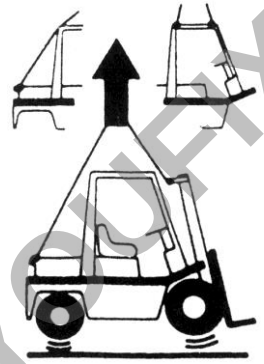
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10. Truck Transporting, Lifting, Towing

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, and then use the lifting device to hoist the truck.



⚠ Warning：

·When hoisting the truck, DO NOT connect sling to the overhead guard. The overhead guard is not designed to support truck lifting.

·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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Pin	Function Definition
A17	Reverse gear (high efficiency)
A18	Forward gear (high efficiency)
A19	Manual/automatic changeover switch Closing corresponds to high speed
A20	Forklift speed sensor
B1	R2 indicator (low efficiency)
B2	R1 indicator (low efficiency)
B3	Alarm (high efficiency)
B4	Alarm indication (high efficiency)
B5	Auto indication (low efficiency)
B6	F2 indicator (low efficiency)
B7	F1 indicator (low efficiency)
B8	N indicator (high efficiency)

Note: High efficiency means it is available provided there is voltage, and the low efficiency means it is available only when grounded (no-voltage).

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Check Item	Service Required	Every			
		1 months (166hrs)	3 months (500 hrs)	6 months (1000hrs)	1 year (2000hrs)
LPG Engine	1.Piping or pipe connector portion for gas leakage (1)	O	O	O	O
	2.Tar in vaporizer, Clean	O	O	O	O
	3.Piping or pipe connector portion for damage	O	O	O	O
	4.Mounting bracket of LPG cylinder for looseness or damage	O	O	O	O
	5.Filter for LPG		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.

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Model		UT15P (4TNE92)	UT18P (4TNE92)	UT20P (4TNE92)	UT25P (4TNE92)
Overall Dimensions	Length (mm)	3185	3185	3600	3675
	Width (mm)	1080	1080	1155	1155
	Height (mm)	2130	2130	2140	2140
Service Weight (kg)		2740	2930	3440	3765
Tire （F/R）		6.50-10-10PR 5.00-8-8PR	6.50-10-10PR 5.00-8-10PR	7.00-12-12PR 6.00-9-10PR	28X9-15-12PR 6.50-10-10PR
Voltage/Capacity (V/Ah)		12/60	12/60	12/90	12/90
No-Load Braking Distance (m)		≤6	≤6	≤6	≤6
Engine	Type	4TNE92-HRJ（YANMAR）			
	Rated Capacity	32.8 kW/2450r/min			
	Max Torque	149.4N·m/1600 r/min			
	Displacement	2.659L			

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