

KOMATSU**Operation & Maintenance Manual****FORKLIFT TRUCK****FD60/70/80-10****⚠ WARNING**

Unsafe use of this lift truck may cause serious injury or death. Operators and maintenance personnel must read this manual and be sure that they understand its contents before operating, inspecting, or carrying out maintenance on this lift truck. This manual should be kept near the lift truck for reference and periodically reviewed by all operators and maintenance personnel who will come into contact with it.

ORIGINAL

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1.10 NECESSARY INFORMATION OF LIFT TRUCK

When you need maintenance of the lift truck or order parts, please provide KOMATSU FORKLIFT distributor with necessary information of the lift truck such as model type, serial No., engine serial No., attachment, option, etc.

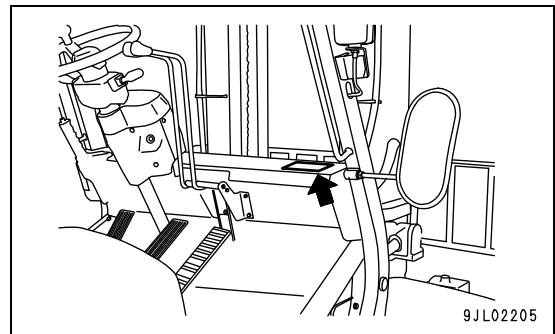
1.10.1 MEMORANDUM (TO BE FILLED BY KOMATSU FORKLIFT DISTRIBUTOR)

Model type	
Serial No.	
Engine serial No.	
Attachment/option	
Name of Distributor	
Address	
Telephone, fax No.	
Service person in charge	
Sales representative in charge	

1.10.2 MODEL AND SERIAL NO. PLATE LOCATION

SERIAL NO. PLATE LOCATION

Located in the right top of the dashboard.

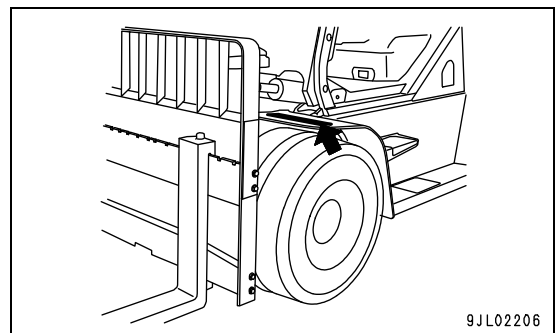


SERIAL NUMBER STAMPING LOCATION

Besides the serial No. plate is also stamped on the top of the left-side front wheel fender.

Example of stamping mark: M***-#####

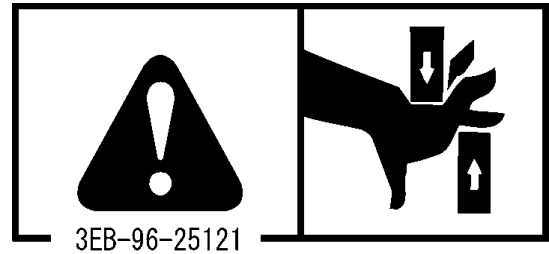
The manufacturing number is shown as # after the hyphen.



2.1.2 SAFETY LABEL

- For general : except for USA and EU specification
- For USA : for USA specification only
- For EU : for EU specification only

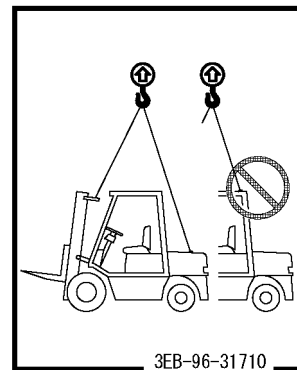
(1) Caution to avoid getting hand caught (3EB-96-25121) (3EB-96-25850) (For general, For EU)
 Do not place your hands.



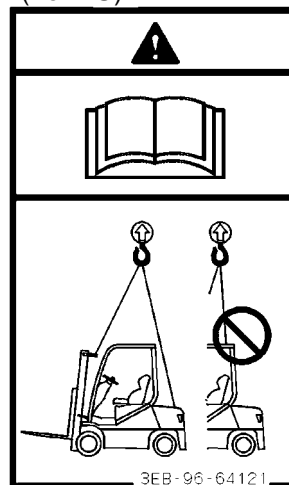
(For USA)



(2) Caution when hoisting the lift truck (3EB-96-31710) (3EB-96-64121) (For general, For USA)
 Never lift the truck by the overhead guard.



(For EU)



FIRE CAUSED BY DEPOSITS AND FOULING OF FLAMMABLE OBJECTS

- Deposits or fouling of flammable objects in the engine exhaust manifold, muffler, exhaust pipe, near the battery, and inside the under cover may cause a fire. Remove the deposits and attached material from the above locations.

FIRE FROM ELECTRICAL WIRING

Short-circuiting of the electrical wiring may cause a fire.

- Clean all the electrical wiring connections, and fix them firmly.
- Check daily for looseness, wear and damage of the wiring. Retighten the loose connector and wiring clamp. Damaged wiring must be repaired or replaced by KOMATSU FORKLIFT distributor.

FIRE FROM PIPING

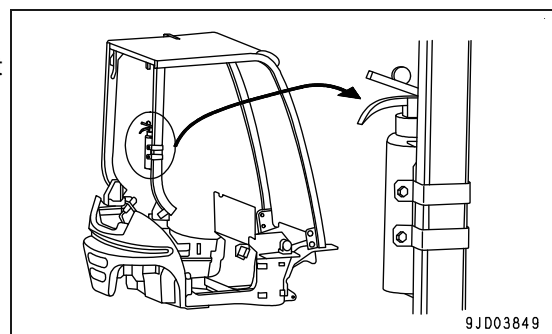
- Make sure that the clamp, guard and cushion of the hose and tube are fixed securely. Loose hose or tube may get damaged by vibration during operation or by rubbing against other parts, and cause the high pressure fluid to spurt out which may lead a fire or serious bodily injury.

2.2.12 IF A FIRE BREAKS OUT

- If a fire breaks out, return the starting switch to the [○] (OFF) position to stop the engine.
- Do not jump off the lift truck in a rush. Support yourself securely with handrails and steps to evacuate.

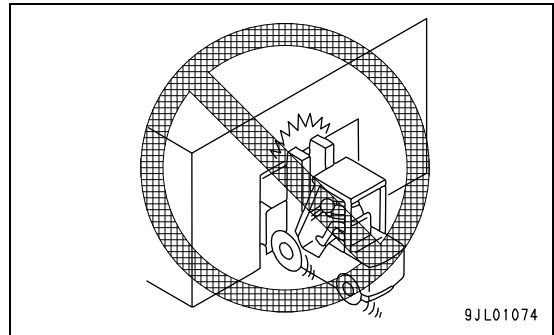
2.2.13 INSTALLATION OF FIRE EXTINGUISHER(IF EQUIPPED)

- If equipped, a fire extinguisher is provided. (1 kg)
See the instruction plate attached on the fire extinguisher about how to use it.



PAY CAREFUL ATTENTION TO THE LIFT TRUCK'S MAX. HEIGHT AND WIDTH

- Ensure that there is ample height and width for the lift truck to pass.
- Keep clearance from the doors, ceiling, wirings and pipes.
- Be careful with the height of the mast and load backrest when the forks go up.

**DO NOT TRAVEL ON ROUGH OR SLIPPERY ROAD**

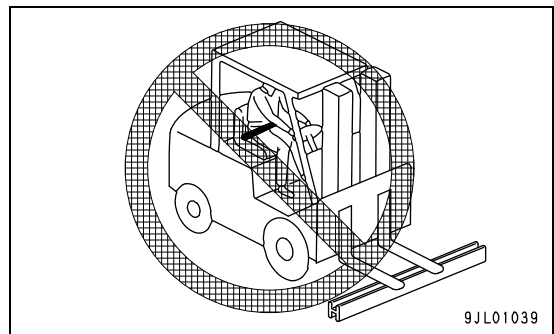
- Do not try to travel on bumpy or soft ground. It can lead a serious accident when you lose steering control or the tires stuck in the mud.
- Avoid traveling on the slippery road covered with water and oil. You will lose brake or steering control.

OBSERVE THE WEIGHT LIMIT

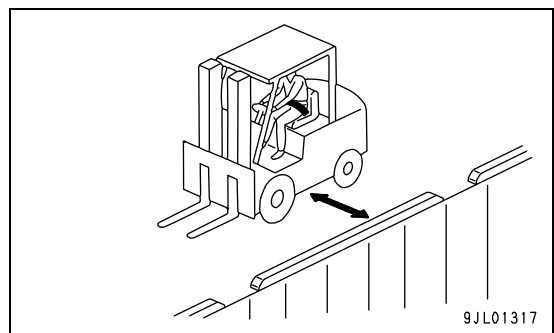
- Do not allow overweight on the floors and roads where weight limit is specified.

DO NOT TRAVEL DIRECTLY OVER OBSTACLES ON THE ROAD

- Avoid clutter, curbs, rails, ditches, or other obstacles, and do not travel directly over them. Also, the impact applied when traveling over obstacles can result in bodily injuries such as backache.

**TRAVELING ON A ROAD SHOULDER IS STRICTLY PROHIBITED**

- There is danger that soft road shoulders may collapse. Do not approach them.
- Always maintain a safe distance from the edge of road shoulders and platforms to prevent the lift truck from falling off.



2.6.4 PRECAUTIONS BEFORE INSPECTION AND MAINTENANCE

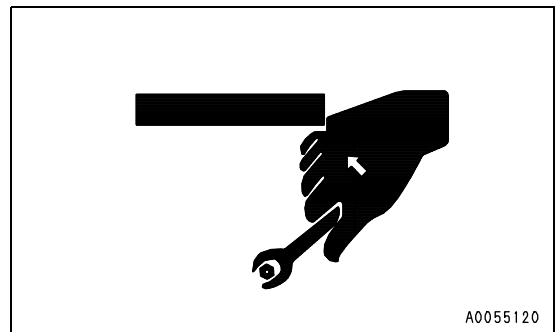
- Arrange for a fire extinguisher. Know the location and how to use it.
 - Do not allow anyone with loose clothing or long loose hair near the mast while operation.
 - Wear adequate working clothes and protective items (hard hat, safety shoes, goggles and gloves).
 - Lower the forks to the ground, pull the parking brake lever in the direction to the rear of the lift truck, set all the lever to the neutral positions, then turn the starting switch to [○] (OFF) position to stop the engine.
 - Block the front and rear tires.
-

2.6.5 KEEP UNAUTHORIZED PEOPLE OFF

- No unauthorized person is allowed near the lift truck under maintenance service.
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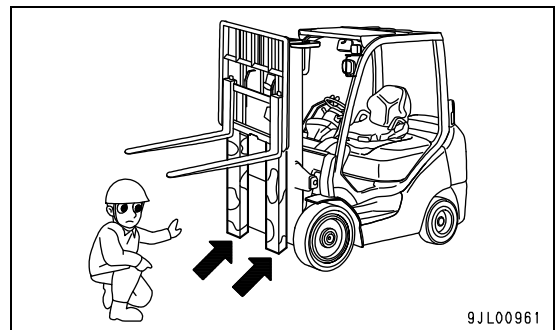
2.6.6 USE OF RIGHT TOOLS AND EQUIPMENT

- Use a suitable tool correctly. Do not use broken or deformed tools, or wrong tools designed for another purpose, or a serious accident may result.



2.6.7 CAUTIONS WHEN WORKING UNDER WORK EQUIPMENT

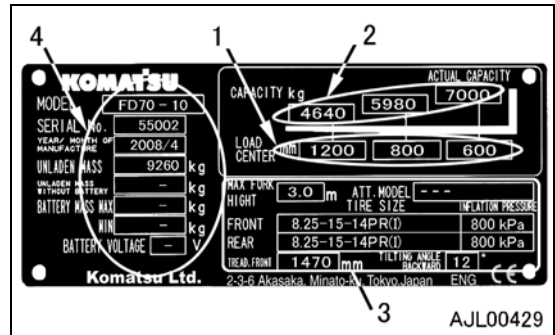
- Block the forks and mast to prevent falling before working under the raised forks. Otherwise, a serious accident may result.



2.8.5 SERIAL NO. PLATE AND LOAD TABLE

EXPLANATION OF LOAD TABLE

- In the load table of the serial No. plate, actual capacity and maximum load (2) are shown in relation to load center (1).
- Actual capacity and maximum load are determined according to each model on the condition of the specifications shown in area (3).
- Before loading, make sure that the load center and the load are well within the range of capacity.
- When the load is in a complex shape, pull the load so that the heaviest portion of the load comes to closer to the load backrest and the lateral center comes to the two forks center.
- Should a load be loaded beyond the range of capacity, it would pose a big danger to the lift truck as the rear wheels (for steering) may lift off the ground, letting the operator lose control of steering, or the lift truck may tip over. Always keep the load within the range of capacity.
- Work within the specification ranges given in the serial No. plate attached to the lift truck. Replace the broken or unreadable serial No. plate. Call your KOMATSU FORKLIFT distributor for a new serial No. plate.



EXAMPLE OF LOAD CENTER AND ACTUAL CAPACITY

- The areas (1) and (2) in the example provide the following information:
 - When the load center is 600 mm (23 in)
 - Maximum load capacity: 7,000 kg (*1)
 - When the load center is 800 mm (31 in)
 - Actual capacity: 5,980 kg
 - When the load center is 1,200 mm (47 in)
 - Actual capacity: 4,640 kg
- *1: Even when the load center is smaller than 600 mm (23 in), the maximum capacity is 7,000 kg.

- The area (3) shows the main specifications of the model.
 - Max. lifting height : 3 m (118 in)
 - Attachment : None
 - Front wheel tread : 1,470 mm (58 in)
 - Mast rear tilting angle : 12°
 - Front wheel size, inflation pressure : 8.25-15-14PR(I), 800 kPa
 - Rear wheel size, inflation pressure : 8.25-15-14PR(I), 800 kPa

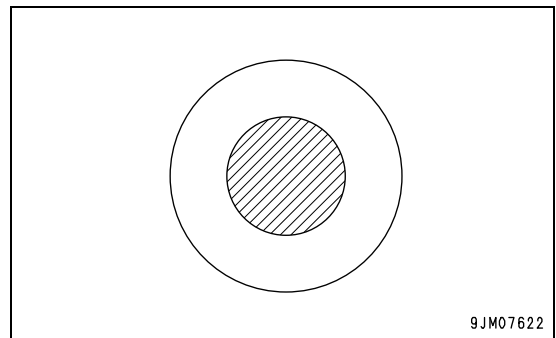
- The following symbols indicate the types of attachment if any.

Attachment	Symbol					
	Type			Capacity		
Side shifter	F	S	*	*	*	*
Fork positioner	F	M	*	*	*	*
Hinged fork	H	F	*	*	*	*
Clamp	C	*	*	*	*	*

* marks in the chart will be replaced with alphabets and numbers which stand for types and capacities of the attachment. Numbers are not necessarily in 6 digits.

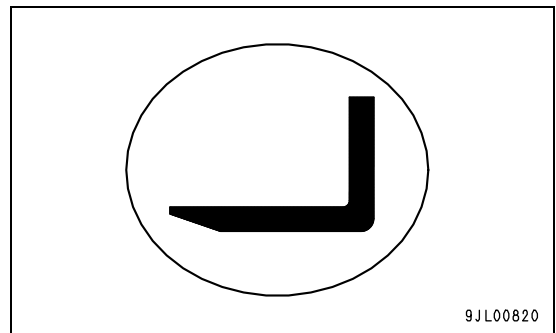
OPERATION INDICATOR

This indicator flashes (green) while the starting switch is in the [] (ON) position.

**LIFT INTERLOCK WARNING LAMP**

This lamp begins to flash when Load Handling Interlock activates, stopping the operation of forks and mast.

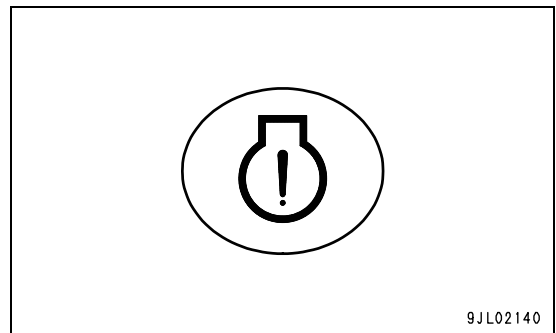
When you seat yourself properly on the operator's seat, the lamp stops flashing and the lift truck is now ready for load handling operation again. For the lift interlock, see "LIFT INTERLOCK (PAGE 3-36)".

**ENGINE FAILURE INDICATOR**

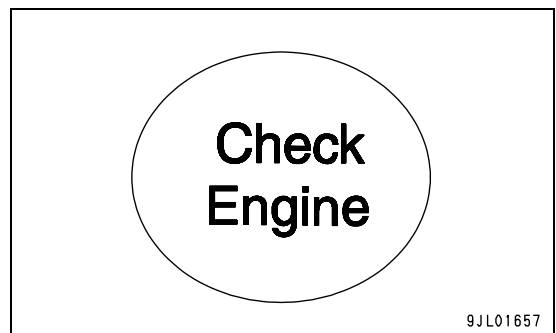
This indicator lamp lights up or flashes if any abnormality occurs to the engine.

NOTICE

If the lamp lights up or flashes during operation, stop operation immediately and report to the administrator or contact your KOMATSU FORKLIFT distributor for checkup. The protection system may stop the engine or take another protective action, depending on the abnormality.

**REMARK**

The mark shown at right is displayed on some lift truck models.



MAST

Prior to removal of the mast, detach the carriage and forks-refer to par. "FORKS" and "CARRIAGE" above. Remove the drive wheels (if required).

1. With the mast vertical, support the mast securely by attaching lifting tackle to the lifting eyes on the upper cross brace indicated by the crane hook label. Remove tilt cylinder to mast pivot pins.
2. Disconnect hydraulic pies from lift cylinders and blank off all open ends to prevent the ingress of foreign matter.

CAUTION

Residual oil will be discharged during disconnection.

3. Inclining the mast forward a little from its vertical position, remove the mounting cap bolts.
4. Reassemble is the reverse of the removal sequence, noting the following:
 - 1) Renew chain anchor split pins.
 - 2) Tighten to the correct torque, the mast locking bolts - refer to repair manual for torque figure.
 - 3) Lubricate all pivot pins.
 - 4) If any removal of components affecting tilt angles have been carried out, check and adjust tilt angles. Refer to the repair manual for further information.

WARNING

Ensure that all locking devices are engaged upon assembly of attachment.

INSTALLATION/ASSEMBLY OF SIDE SHIFT, FORK POSITIONER OR CLAMP ATTACHMENTS

The side shift, fork spreader and clamp attachments all have a common method of installation/assembly as follows:

1. Before installing, inspect the truck carriage to make sure that the locating notches along the top of the truck carriage are undamaged and that there are no obstructions on the faceplate itself.
2. Place the clamp into an upright position in preparation for mounting it on the truck.
3. Remove the lower mounting hooks from the back of the clamp frame.
4. Attach the two jumper hoses securely to the clamp's check valve before connecting them to the junction block on the truck carriage.
5. The open line on the top of the valve is the "clamp open" circuit. The line on the side of the valve is "clamp close" circuit.
6. If the hose junction block is located on the upper portion of the truck carriage, do not connect the jumper hoses to it until the clamp is mounted on the truck. Lay the hoses over the top of the frame. However, if the junction block is located on the lower portion or in the center opening of the carriage, and thus nearly inaccessible when the clamp is mounted, attach the jumper hoses securely before installing the unit.
7. Install the clamp on the truck. It may be lifted onto the truck or simply positioned on the floor (and blocked up under the frame and arms) or placed on a pallet so that the truck may be driven up and the truck carriage moved under the upper mounting hooks on the frame. Line up the locating lug on the clamp with the center notch on the truck carriage. (The carriage can be raised into the hooks at this point). Be careful not to pinch, twist, or otherwise damage the jumper hoses in mounting. After the unit has been placed on the truck, bolt the lower mounting hooks into position on the lower clamp frame, firmly securing it to the truck carriage.
8. Attach the hoses to the carriage junction block.
9. It is normal at this point to re-check the hoses from the truck valve to the clamp. Make sure that the hoses are routed correctly, and that all connections are tight. For best results, there should be as few 90 degree bends and other similar flow restrictions as possible in the hydraulic circuits. Check the mounting hooks to be certain that the clamp is solidly mounted to the truck carriage.

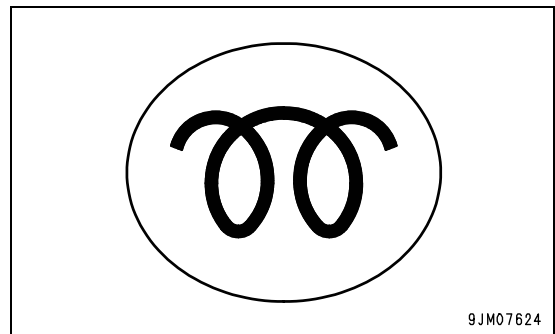
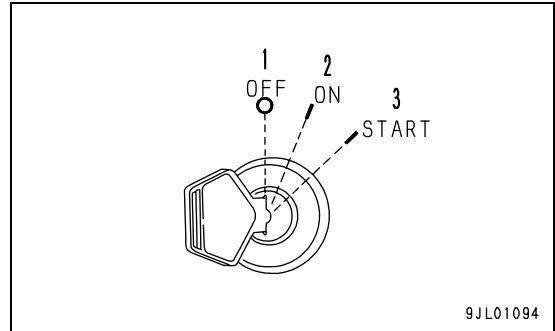
4. Turn the starting switch key to the [|] (ON) position (2) and release it. The engine preheated lamp on the meter panel lights up and automatic preheating starts.

○ Preheating time

The necessary preheating time varies depending on the ambient temperature and engine temperature. Use the followings as rough guide. If the engine is started while preheating, the preheating is terminated automatically.

- 5°C or over : Preheating not required
- 5 - -15°C : 5 - 30 seconds
- 15°C or below : 30 seconds

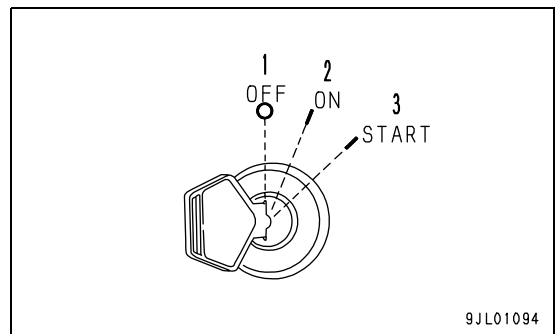
5. When the glow indicator turns out, the preheating is completed.



6. Turn the starting switch key to the [|] (START) position (3) to start the engine.

REMARK

To improve durability by improving the engine lubrication performance at cold start, no fuel is fed to the engine for 3 seconds immediately after turning the starting switch key to the [|] (START) position. Therefore, the engine does not start during this period. Hold the starting switch key in the [|] (START) position to keep the starting motor turning until the engine starts.



7. When the engine has started up, release the key immediately. The key will automatically return to the [|] (ON) position (2). Make sure the key is kept in this position while the engine is running.
8. Warm-up the engine. The warming-up run is terminated automatically after the engine has warmed-up.

NOTICE

- **The starting switch key must be at the [○] (OFF) position (1) while the engine is not running. Do not leave the starting switch key in the [|] (ON) position (2). The battery capacity goes down, making it difficult to start up the engine.**
- **Limit the use of the starting motor within 10 seconds and do not let it run continuously beyond 10 seconds.**
- **Wait for another 20 seconds before using the starting motor again.**
- **Do not turn the starting switch key to the [|] (START) position (3) while the engine is running.**

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3.3.10 CHECKING AFTER OPERATION

After all the above inspections have been finished and each part of the lift truck is cleaned, and before it is stored, carry out the following inspections.

1. Leakage of fuel, water, and battery electrolyte.
2. Cracks or damage.
3. Check faults found during operation and report them to the administrator. Be sure to place a sign or other notice identifying "Never use". (if necessary)
4. Lubricate the units (if necessary)

For the procedure during cold weather, procedure with overheated engine, long-term storage, and loading and unloading of lift truck, refer to the followings:

- For washing the lift truck, see "4.10 WASHING LIFT TRUCKS (PAGE 4-55)".
- For the procedure during cold weather, see "4.6 RUNNING IN COLD WEATHER (PAGE 4-49)".
- For the procedure with overheated engine, see "4.7 PROCEDURE WITH OVERHEATED ENGINE (PAGE 4-51)".
- For the long-term storage, see "4.11 LONG-TERM STORAGE (PAGE 4-56)".
- For the loading and unloading of lift truck, see "4.13 LOADING AND UNLOADING OF LIFT TRUCK (PAGE 4-58)".

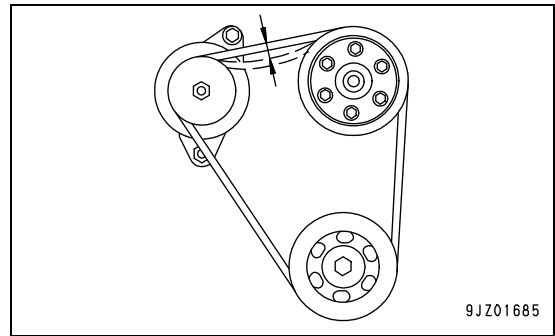
CHECK DEFLECTION OF V-BELT

For the inspection of V belt tension, depress the belt center with force of 98 N (10 kgf).

For the inspection of V belt deflection, refer to "4.16 SERVICE DATA (PAGE 4-66)".

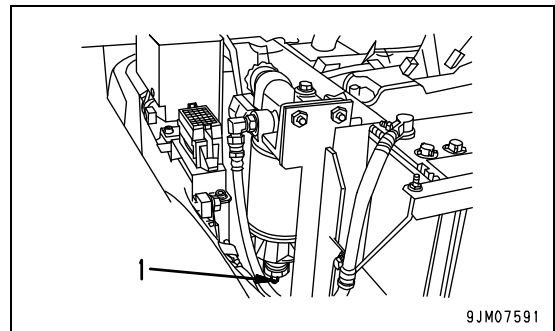
NOTICE

Replace the belt if the belt is stretched and there is no allowance for adjustment, or if the belt is cut or cracked. Contact your KOMATSU FORKLIFT distributor for the replacement of belts.

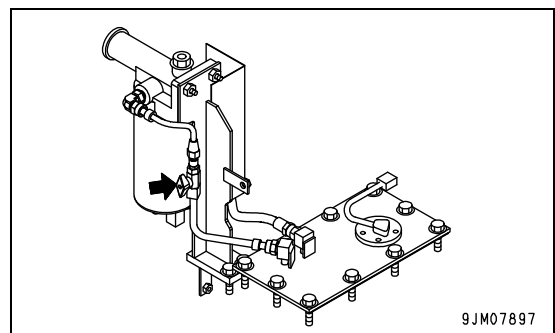
**DRAINAGE OF FUEL PRE-FILTER**
CAUTION

- Beware the engine is high-temperature immediately after stopping. Drain water and/or bleed air after the engine temperature has lowered sufficiently.
- When draining water from the fuel pre-filter, fuel is also drained. Always wipe spilt fuel off and keep it away from open flame.

1. Open the engine hood.
2. Loosen drain plug (1) on the bottom of the fuel pre-filter and drain water and sediments deposited.
3. After draining, tighten the drain plug securely.

**REMARK**

The pre-filter of the model for USA has the fuel stop valve lever.

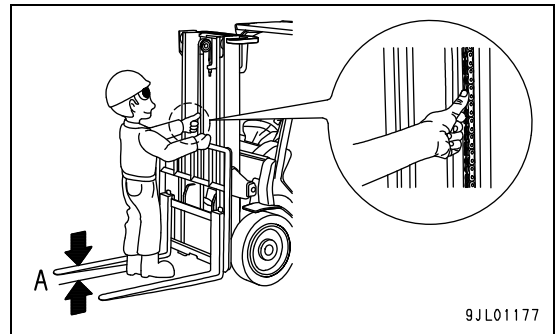


CHECKING OF TENSION OF LIFT CHAIN

⚠ CAUTION

- If the chain tension is asymmetrical to the left and right, load would concentrate on the chain of one side to cause it to break, leading to the falling of material and the tipping over of lift truck.
- To prevent the lift truck from traveling uncontrolled or the checking personnel from being caught by the truck, set the forward/reverse lever to the neutral position, pull the parking brake lever in the direction of the truck, stop the engine, and alight from the truck before starting check.
- Never step the foot under the fork as it may get caught.

1. Raise the fork 10 - 15 cm (4 - 6 in) from the ground. (Part A)
2. Press the center of lift chain with a finger and check if the tension is equal to the right and left.



CHECKING OF LIFT CHAIN

⚠ CAUTION

- If the lift chain break, the load may fall down or the lift truck may tip over. When lift chain is found abnormal with damages and cracks, please contact your KOMATSU FORKLIFT distributor for replacement of the lift chain.
- Rust on the lift chain is a cause of damages and cracks. Take rust preventive measures at an early date to keep rust off.

1. Visually check lift chain for any damages, cracks and rust.
2. Check the state of lubrication of lift chain. If it is in poor state or rust has generated on the lift chain, apply engine oil, etc. on it.

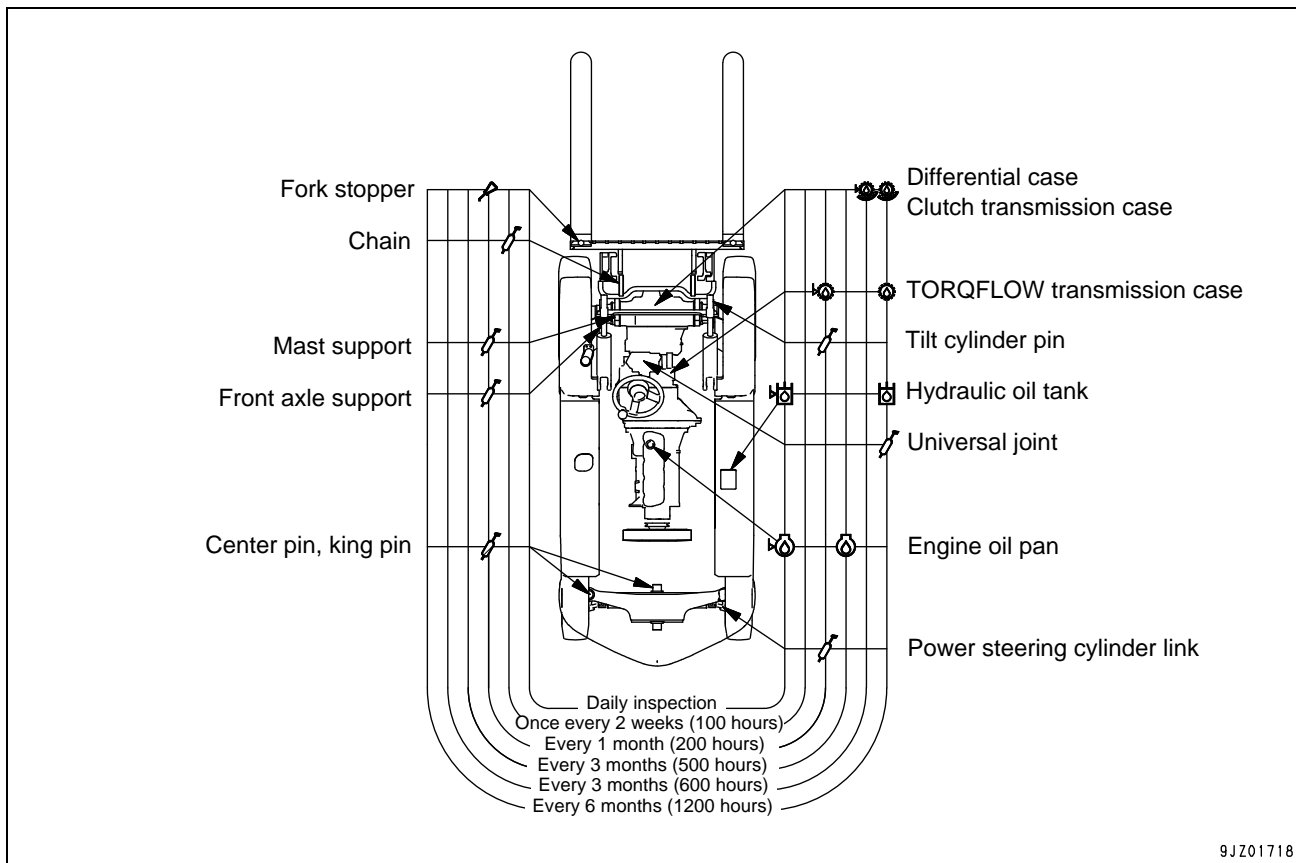
CHECKING OF ATTACHMENT FUNCTION AND ABNORMAL NOISE AND ODOR (FOR LIFT TRUCK WITH ATTACHMENTS)

Check the attachment according to its operating manual.

4.4.1.3 LUBRICANT LIST (FOR EU)

OIL AND GREASING CHART

(OIL, GREASE LOCATIONS AND INSPECTION AND MAINTENANCE INTERVALS)



9JZ01718

Symbols	Meaning of symbols
	Check the brake fluid level
	Change the brake fluid
	Check the hydraulic oil level
	Change the hydraulic oil
	Check the power train oil level
	Change the power train oil
	Check the gear oil level
	Change the gear oil
	Check the engine oil level
	Change the engine oil
	Apply grease
	Check or change of oil

4.4.8 REPLACING FUSE

If the lamps and indicator lamps fail to light up or the control system fails to operate, there is a possibility that fuses may be blown. Check fuses that protect each equipment and system for blowing.

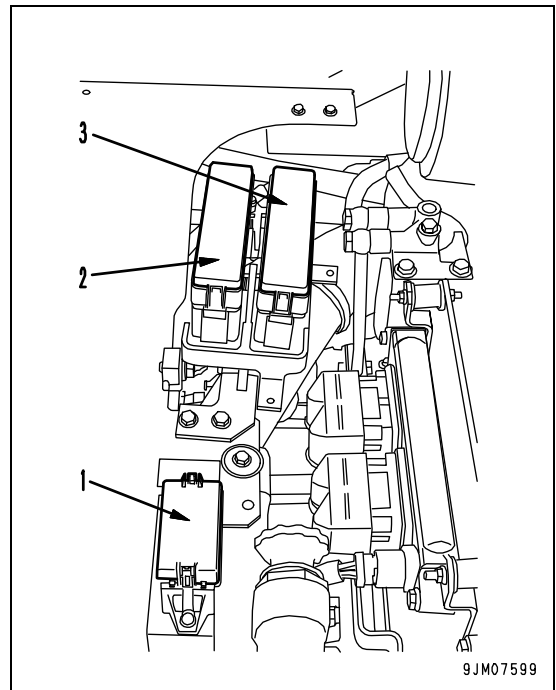
⚠ CAUTION

- When replacing the fuses, always turn off the electric power (turn the starting switch to the [○] (OFF)) position before replacing.
- Always use fuse of same capacity for replacement.
- If replaced fuse is blown again, abnormal electric system may be causing the problem. Contact KOMATSU FORKLIFT distributor for checking.

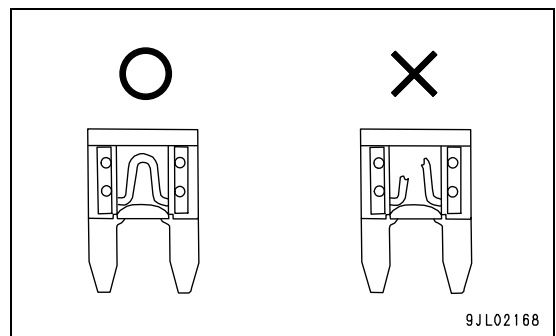
1. Turn the starting switch to the [○] (OFF) position.
2. Open the engine hood. Fuses are installed in the fuse box in front of the engine.
3. Remove the relay box cover (fixed with 3 screws). Under the cover, there are relay box 1 (2) and relay box 2 (3). Large capacity fuses are installed in relay box (3).
4. Remove fuse box cover (1) and remove the fuse and visually check if it is blown.

REMARK

If the fuse box contains a puller, remove the fuse using the puller.



5. If a fuse is blown, replace it with spare fuse of same capacity.



BATTERY

! CAUTION

- Batteries generate flammable gas. Keep it away from open flame.
- Battery electrolyte is hazardous substance. Protect your skin and/or from it. If exposed to it, wash the skin/eye with large amount of fresh water and immediately see a physician.
- Battery electrolyte is hazardous substance, so be sure not drain it to the drainage ditch or the ground.
- Battery electrolyte dissolves the coating. If attached to the lift truck, wash it down with water immediately.
- If battery is frozen, do not charge it or start the engine using other power supply. Or the battery may explode.

- When the temperature drops, the battery performance is deteriorated, making engine start difficult. Insufficiently charged battery electrolyte may freeze. Get ready for the start in the following morning by charging the battery close to 100% at the day's end.
- Since battery performance remarkably drops as the temperature drops, remove it from the lift truck, place it in a warmer place overnight and install it the following morning. (Particularly when the temperature is low or the lift truck is not to be used for some period)
- If the battery electrolyte level is low, refill distilled water before starting operation the next morning. To prevent freezing during the night, do not refill electrolyte after the end of operation.

REMARK

For finding the battery charge level, measure the specific gravity of battery electrolyte and convert it according to the following table.

Electrolyte temperature (°C)	20	0	-10	-20
Battery charge level (%)				
100	1.28	1.29	1.30	1.31
90	1.26	1.27	1.28	1.29
80	1.24	1.25	1.26	1.27
75	1.23	1.24	1.25	1.26

PRECAUTIONS AFTER COMPLETION OF OPERATIONS

Drain water to prevent water deposited in the fuel pipe from freezing.

For draining water, see " DRAINAGE OF FUEL PRE-FILTER (PAGE 4-10)"

WHEN COLD SEASON IS OVER

When the weather becomes milder with the change of season, do as follows

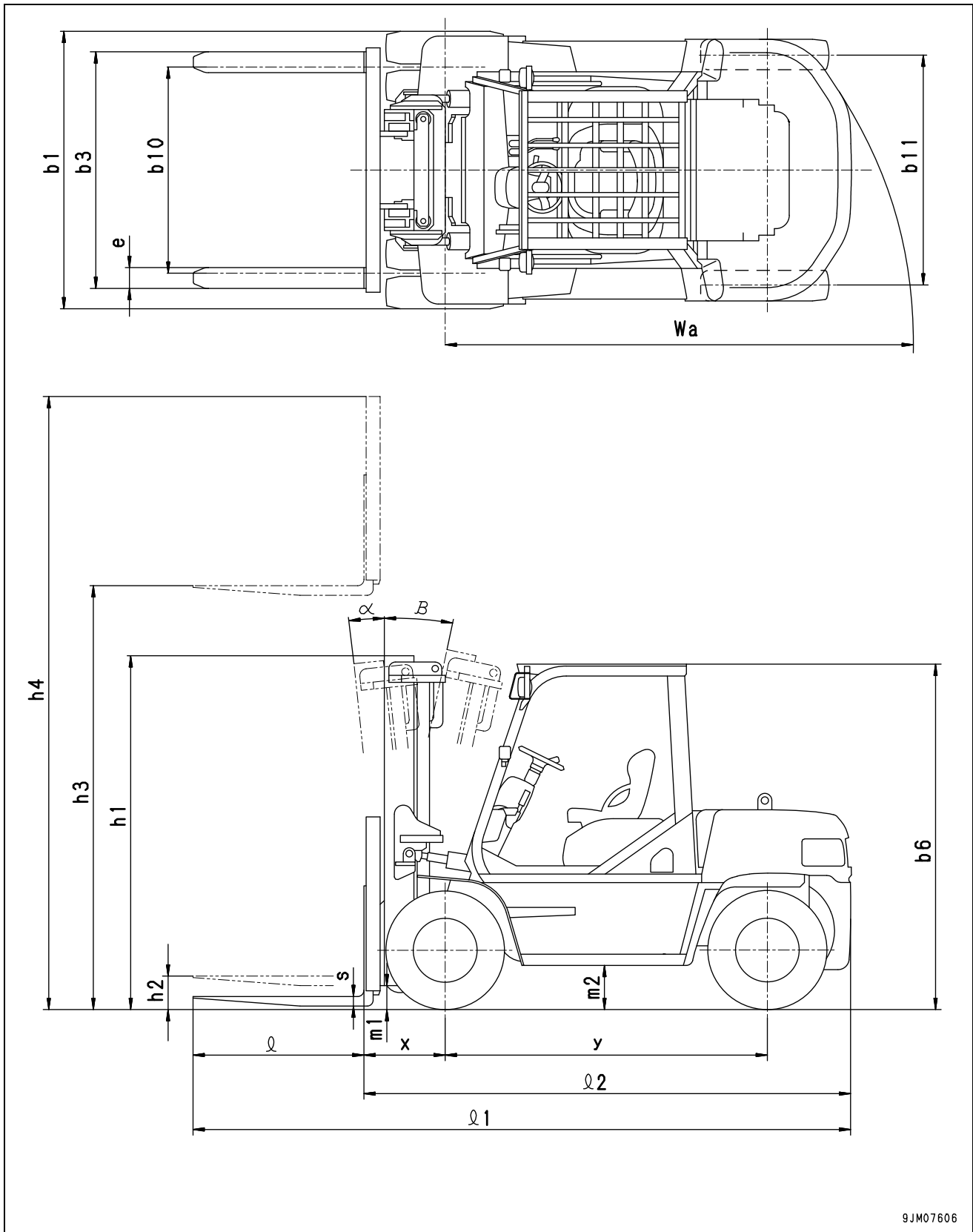
- Change oil of respective devices and fuel to those of specified viscosity according to the " LUBRICANT LIST (PAGE 4-31)".

Inspection & Maintenance Item	Inspection & Maintenance Intervals (hours)								Replacement Intervals (month(s))
	At start-up	Every 2 weeks (100 h)	Every 1 month (200 h)	Every 3 months (600 h)	Every 6 months (1200 h)	Every 1 year (2400 h)	Every 2 years (4800 h)	Maintenance by operating time (h)	
Lubrication system									
Oil level and contamination	○		○				○		
Oil leakage	○		○	○			○		
Oil pan oil replacement (*1)			○					500	3
Oil filter cartridge replacement			○					500	3
Fuel system									
Fuel leakage	○		○	○			○		
Fuel filter contamination and clogging							○		
Fuel filter crack and damage			○						
Fuel pre-filter water drain	○								
Water separator water drain (*2)	○								
Fuel pre-filter cartridge replacement				○				500	
Fuel main filter cartridge replacement				○				1000	
Fuel tank crack and damage	○								
Fuel tank oil level	○								
Fuel tank cleaning							○		
Checking for loose high-pressure piping clamps, hardening of rubber							○	4000	
High-pressure piping clamps replacement								8000	24
Checking for missing fuel spray prevention cap, hardening of rubber							○	4000	
Cooling system									
Coolant level and contamination	○								
Water leakage	○		○				○		
Contamination, hose damage and deterioration, radiator cap function							○		
Belt deflection, wear and damage	○		○	○			○		
Crack, deformation and looseness of fan cover							○		
Checking of water pump							○	4000	
Engine intake piping clamp looseness						○	○	1000	
Carbon monoxide emission prevention device									
Carbon monoxide emission prevention device function, mounting part looseness, and damage							○		
Piping damage and installed condition							○		
Electric devices									
Checking of starting motor							○	4000	
Charger function							○		
Battery									
Oil level	○		○				○		
Terminal looseness and corrosion				○			○		
Electrical wiring									
Connecting portion looseness and damage			○	○			○		

*1 Always use Komatsu-designated oil for the diesel engine.

*2 Applied to the REF specification models.

5. TECHNICAL DATA



9JM07606

7. EC DECLARATION OF CONFORMITY

7.1 EC DECLARATION OF CONFORMITY(FD60-80-10)

We, Komatsu Ltd. of which registered office is at 110 Yokokura-Shinden, Oyama-shi, Tochigi-ken 323-8567, Japan, hereby declare under our sole responsibility that the following machines

Category : Forklift Truck
 (I.C. engine type, self-propelled counterbalanced truck)
 Manufacturer : Komatsu Ltd, Tochigi, Japan
 Type : FD60-10, FD70-10, FD80-10

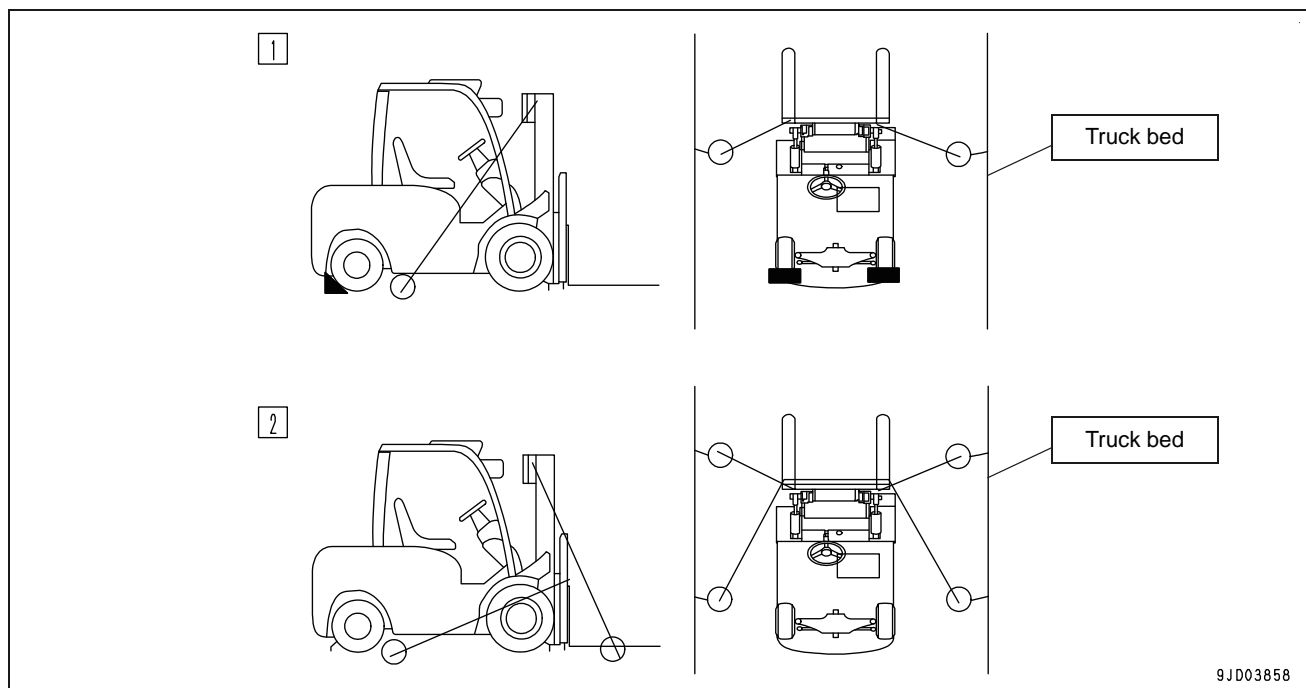
meet the requirements of the latest valid version of Machinery Directive 2006/42/EC and EMC Directive 2004/108/EC and 2014/30/EU by complying with the harmonized standards and equivalent as attached.

We also declare that they meet the specification of Noise Emission Directive 2000/14/EC amended by 2005/88/EC as measured and approved by the Conformity Evaluation Method set out in Annex V (internal production control). Sound power levels are listed as attached.

7.2 TIE-DOWN POSITIONS OF LIFT TRUCK

When transporting the lift truck, bind it by either of the following two methods.

1. Chock the rear wheels and fix the two holes on both sides of the mast head stay and the hooks of the truck bed with wire ropes or chains.
2. Fix the two holes on both sides of the mast head stay and the front hooks of the truck bed, and fix the mast board and two rear hooks of the truck bed.



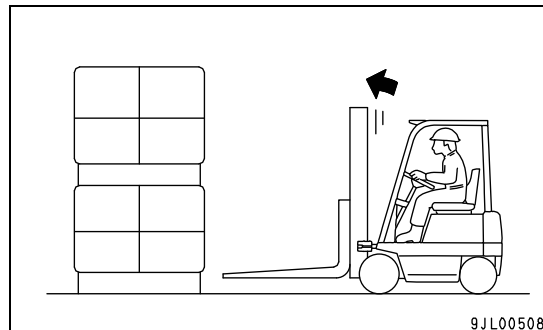
9JD03858

8.1.7 OPERATION

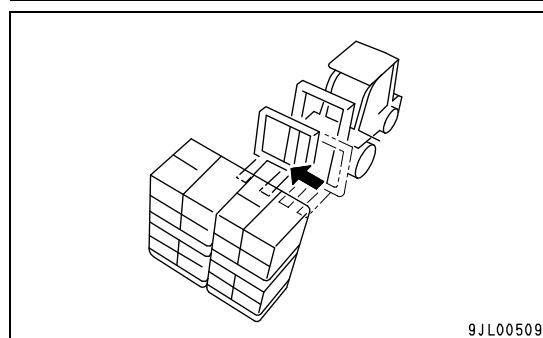
LOADING AND UNLOADING

SIDE SHIFT WORK

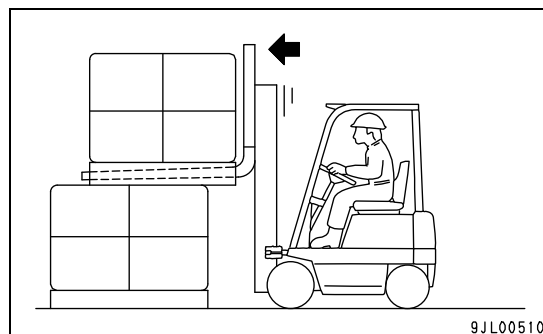
1. Stop the machine in front of the load and set the forks horizontal.



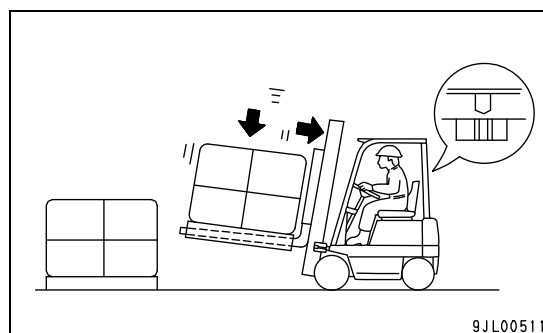
2. Align the center of shift frame and load by operating the shift lever.



3. Insert the forks into the pallet and raise the load about 10 cm (4 in). Drive slowly in reverse, then lower the load to 15 - 20 cm (6 - 8 in) from the ground.



4. Watch the shift indicator at the rear of the finger bar and align the center of the shift frame and the finger bar, then tilt the mast back.



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