Perform maintenance at intervals of months or operation hours, whichever occurs first.

Service Item	Page
First month or initial 200 hours service (only after the first one month)	
Change oil in hydraulic tank, replace line filter, clean strainer, clean inside of tank	3-17
Change oil in engine oil pan	3-17
Replace engine oil filter cartridge	3-17
Check, adjust engine valve clearance	3-17
Tighten (retorque) engine cylinder head bolts	3-17
Clean TORQFLOW transmission strainer	3-17
Change oil in differential case	3-17
Change oil in TORQFLOW transmission case	3-17
Tighten bolts and nuts (especially lug nuts, overhead guard, load backrest operator's seat mounting bolts and nuts)	3-17
Check before operation items (for details, see "15.1 CHECK BEFORE OPERATION")	3-17
Every 2 weeks or every 100 hours service	
Grease lift chain	3-17
Every month or every 200 hours service	
Check wheel rims for deformation, cracking and damage	3-17
Check wheel bearings for play and abnormal noise	3-17
Check hydraulic cylinders for looseness, deformation, cracking, damage and wear	3-17
Check all piping/tubing/connectors for oil leakage, deformation or damage	3-17
Check operation of hydraulic cylinders	3-18
Check hydraulic drift of lift cylinder	3-18
Check hydraulic drift of tilt cylinders	3-18
Check movement of work equipment control lever(s)	3-18
Check forks and fork stopper for deformation, cracking, damage and wear	3-18
Check forks for unevenness and twisting	3-18
Check mast for deformation, cracking, damage and wear	3-18
Check mast roller for play	3-18
Check chain and chain wheel for deformation, damage, rust and poor lubrication	3-18
Check chain wheel bearing for play	3-18
Check chain anchor bolt for deformation and damage	3-18
Check gear box for oil leakage, looseness of mount	3-18

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26. TECHNICAL DATA

SPECIFICATIONS - CX MODEL FORKLIFT TRUCKS

GENERAL

Model	Unit of Measure	FG40ZT-7	FG40ZT2-7	FD40ZT-7	FD40ZT2-7
Capacity @24-inch (610 mm) load center	lb (kg)	8,000 (3,630)			
Power plant type		Gasoline/LPG		Diesel	
Number of wheels (front-wheel drive		2/2			
Service weight	lb (kg)	12,400 (5,625)		12,800 (5,805)	

DIMENSIONS

Height to overhead guard	in. (mm)	85.2 (2,165)
Lowered mast height (2-stage)	in. (mm)	88.6 (2,250)
Extended mast height (83-in., 2-stage)	in. (mm)	180.3 (4,580)
Maximum fork height (83-in., 2-stage)	in. (mm)	130 (3,300)
Free lift heght (2-stage mast)	in. (mm)	6.7 (170)
Length to face of forks (2-stage mast)	in. (mm)	115.2 (2,935)
Length to face of forks (3-stage mast)	in. (mm)	116.5 (2,960)
Overall width	in. (mm)	52.8 (1,340)
Tilting angle, 2-stage mast (forward/back)	degrees	6/12
Tilting angle, 3-stage mast (forward/back)	degrees	6/6
Outside turning radius (OTR)	in. (mm)	100.4 (2,550)
Load distance from center axle (2-stage)	in. (mm)	20.1 (510)
Load distance from center axle (3-stage)	in. (mm)	21.1 (535)
Right angle stacking aisle (2-stage mast)	in. (mm)	120.5 (3,060) + LL (Load Length)
Right angle stacking aisle (3-stage mast)	in. (mm)	121.5 (3,085) +LL

PERFORMANCE

Maximum travel speed, forward, loaded	mph (km/h)	11.8 (19.0)	13.4 (21.5)	11.2 (18.0)	12.4 (20)
Maximum travel speed, forward, unloaded	mph (km/h)	12.7 (20.5)	14.3 (23)	12.1 (19.5)	13.7 (22)
Lifting speeds, loaded/unloaded (2-stage)	fpm (mm/s)	100/112 (510/570)		110/116 (560/590)	
Lifting speeds, loaded/unloaded (3-stage)	fpm (mm/s)	92/102 (470/520)		100/104 (510/530)	
Lowering speeds, loaded/unloaded (2-stage)	fpm (mm/s)	94/108 (480/550)			
Lowering speeds, loaded/unloaded (3-stage)	fpm (mm/s)	86/76 (440/390)			
Maximum drawbar pull	lb (KN)	6,410 (28.5)	8,810 (39.2)	7,230 (32.2)	9,760 (43.4)
Gradeability, loaded/unloaded	percent (%)	32/21	47/21	35/21	52/21

CHASSIS AND WHEELS

Tire size, front		250-15-16PR(I)
Tire size, rear		7.00-12-12PR(I)
Wheelbase	in. (mm)	72.0 (1,830)
Tread (center of tires), front/rear	in. (mm)	43.7/44.1 (1,110/1,120)
Ground clearance, under mast	in. (mm)	5.5 (140)
Ground clearance, center of frame	in. (mm)	6.7 (170)
Service brake type		Hydraulic
Parking brake type		Mechanical
Steering type		F.H.P.S.

POWER TRAIN

Engine model		TB42	6D102E
Rated power (SAE gross)	HP (KW)@rpm	88 (65) @ 2,300	95 (71) @ 2,150
Maximum torque (SAE gross)	lb-ft (N-m)@rpm	203 (275) @ 1,900	253 (343) @ 1,500
No. of cylinders/displacement	cu. in. (cm^3)	6/254 (4,169)	6/359 (5,880)
Cylinder bore x stroke	in. (mm)	3.8 x 3.8 (96 x 96)	4 x 4.7 (102 x 120)
Fuel tank capacity	U.S. gal. (L)	23 (85)	
Air cleaner type		Cyclone	
Battery voltage/capacity (20-hr rating)	V/Ah	12/60	24/70
Clutch type		Torque converter	
Transmission type		TORQFLOW	
Maximum hydraulic pressure	PSI (bar)	2,650 (181)	
Hydraulic tank capacity	U.S. gal. (L)	15 (55)	

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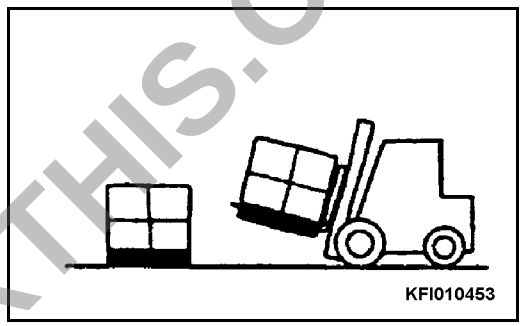
15.9 LOAD HANDLING OPERATION

15.9.1 LOADING

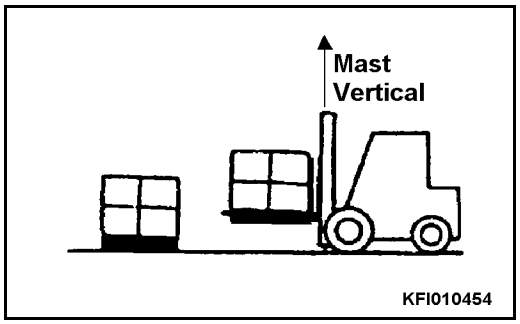
⚠ WARNING

- **Check that there is no danger of collapse or breakage of the load at the loading point.**
- **Check that the loading position is correct.**
- **Never push the load with the fork tips.**

1. Stop slowly when reaching the stacking location.

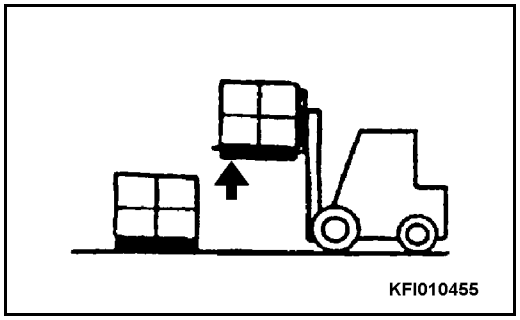

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2. Tilt the mast forward until it is vertical.

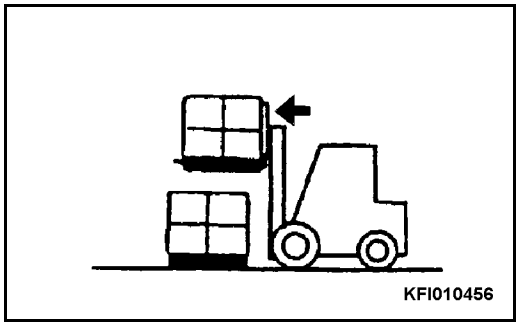


KFI010454

3. Raise the load to 2 - 4 in. (5 - 10 cm) above the stacking point.

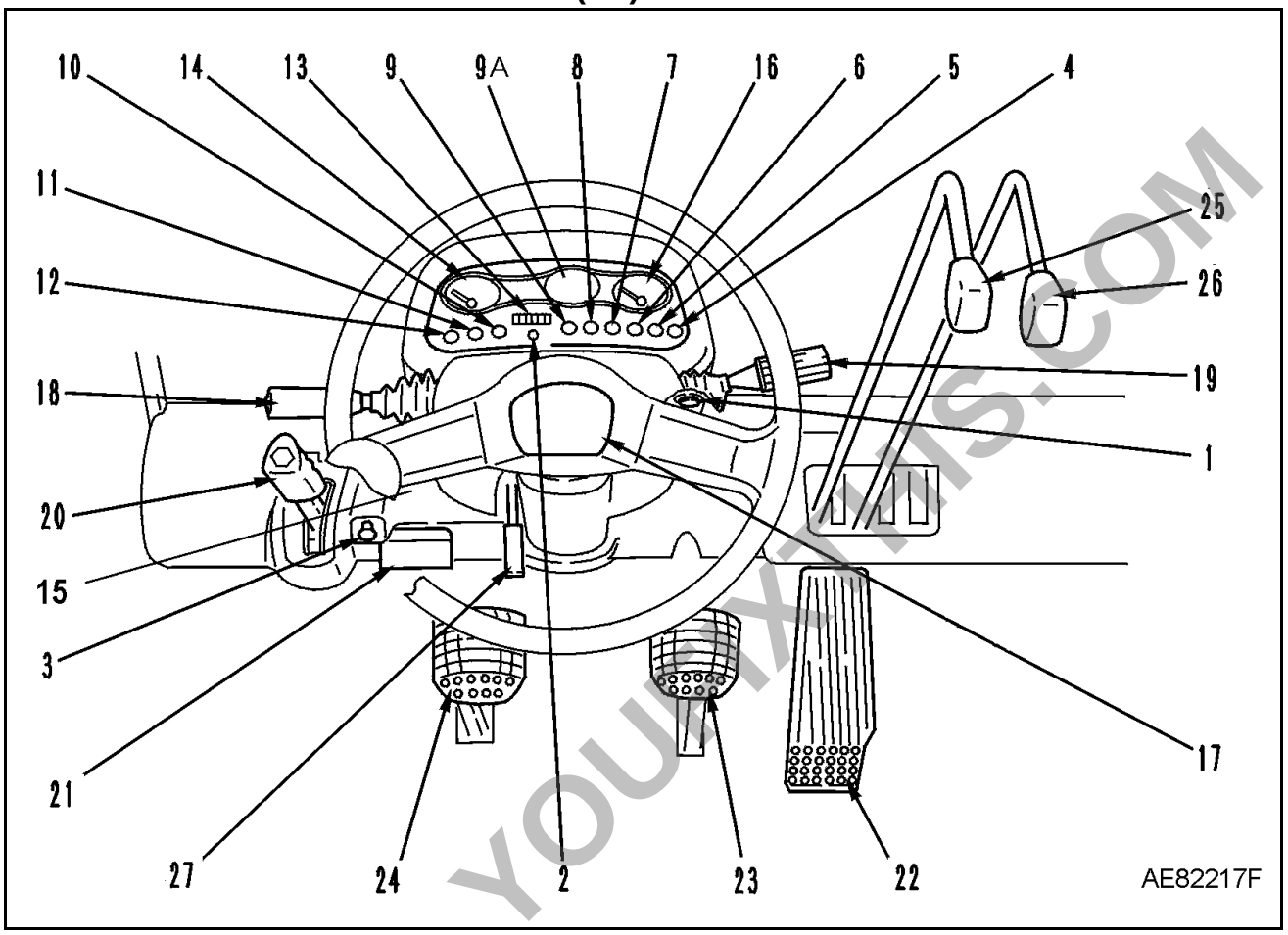

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4. Drive slowly forward.


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13.2 INSTRUMENTS AND CONTROLS (CX)



1. Starting switch
2. Operation indicator (displays during operation)
3. Choke knob (gas engine)
4. Glow indicator (diesel only)
5. Sediment warning lamp (diesel)
6. Battery electrolyte level warning lamp (optional)
7. Radiator cooling water level warning lamp (optional)
8. Fuel level warning lamp (gas engine) (optional)
9. Air cleaner element warning lamp (optional)

9A. Torque converter oil temperature gauge (optional)

10. Charge warning lamp
11. Engine oil pressure warning lamp
12. Brake fluid level warning lamp
13. Hourmeter
14. Engine water temperature gauge
15. LPG low-fuel alarm light (optional)
16. Fuel gauge
17. Horn button
18. FORWARD/REVERSE switch
19. Combination light switch (turn-signal lamp and lamp ON/OFF switch)
20. Parking brake lever
21. Fuse box
22. Accelerator pedal
23. Brake pedal
24. Inching pedal
25. Lift lever
26. Tilt lever
27. Tiltable steering wheel lock lever

Method of checking for blown bulbs in warning lamps.

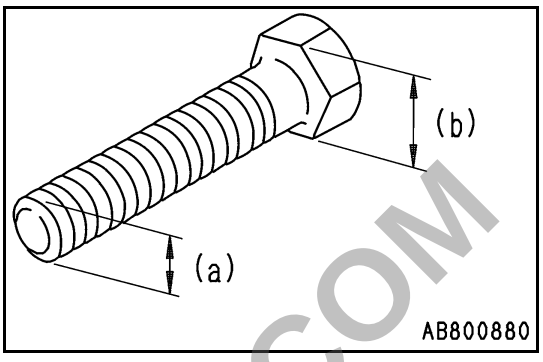
1. **Check that all warning lamps light up when the starting switch is turned ON.**
2. **If any warning lamp does not light up, the bulb for that lamp is blown.**

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21.3 TORQUE LIST

For unspecified bolts and nuts, use the torque specifications in this list.
Select the proper torque corresponding to the width across flats (b) of bolts and nuts.
When replacing bolts and nuts, always use genuine Komatsu Lift Truck parts that match the previous installation in size.



Thread diameter of bolt (mm) (a)	Width across flat (mm) (b)	Tightening torque		
		ft/lbs	kgfm	Nm
6	10	9.73 ± 1.03	1.35 ± 0.15	13.2 ± 1.4
8	13	23.2 ± 2.1	3.2 ± 0.3	31.4 ± 2.9
10	17	48.5 ± 5.0	6.7 ± 0.7	65.7 ± 6.8
12	19	82.6 ± 7.2	11.5 ± 1.0	112 ± 9.8
14	22	131 ± 14	18.0 ± 2.0	177 ± 19
16	24	206 ± 21	28.5 ± 3	279 ± 29
18	27	282 ± 29	39 ± 3	383 ± 39
20	30	405 ± 43	56 ± 6	549 ± 58
22	32	549 ± 58	76 ± 8	745 ± 78
24	36	684 ± 72	94.5 ± 10	927 ± 98
27	41	973 ± 100	135 ± 15	1,320 ± 140
30	48	1,270 ± 140	175 ± 20	1,720 ± 190
33	50	1,630 ± 180	225 ± 25	2,210 ± 240
36	55	2,030 ± 210	280 ± 30	2,750 ± 290
39	60	2,420 ± 250	335 ± 35	3,280 ± 340

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24.1 FIRST MONTH OR INITIAL 200 HOURS SERVICE

Carry out this maintenance, for new lift trucks only, after the first one month or initial 200 hours of operation, whichever comes sooner.

(Hydraulic equipment)

24.1.1 CHANGE OIL IN HYDRAULIC TANK, REPLACE LINE FILTER, CLEAN STRAINER, CLEAN INSIDE OF TANK

For details on replacing and cleaning, see “24.6.16 CHANGE OIL IN HYDRAULIC TANK, REPLACE HYDRAULIC LINE FILTER, CLEAN HYDRAULIC TANK STRAINER, CLEAN INSIDE OF HYDRAULIC TANK”.

(Engine)

24.1.2 CHANGE OIL IN ENGINE OIL PAN

For details on changing the oil, see “24.4.42.1 CHANGE OIL IN ENGINE OIL PAN”.

24.1.3 REPLACE ENGINE OIL FILTER CARTRIDGE

For details on replacing the engine oil filter cartridge, see “24.4.42.2 REPLACE ENGINE OIL FILTER”.

24.1.4 CHECK, ADJUST ENGINE VALVE CLEARANCE

24.1.5 TIGHTEN (RETORQUE) ENGINE CYLINDER HEAD BOLTS

(Power train)

24.1.6 CLEAN TORQFLOW TRANSMISSION STRAINER

24.1.7 CHANGE OIL IN DIFFERENTIAL CASE

For details on changing the oil, see “24.6.4 CHANGE OIL IN DIFFERENTIAL CASE”.

24.1.8 CHANGE OIL IN TORQFLOW TRANSMISSION CASE

For details on changing the oil, see “24.6.5 CHANGE OIL IN TORQFLOW TRANSMISSION CASE”.

(General)

24.1.9 TIGHTEN BOLTS AND NUTS (ESPECIALLY LUG NUTS, OVERHEAD GUARD, LOAD BACKREST AND OPERATOR’S SEAT MOUNTING BOLTS AND NUTS)

24.2 CHECK BEFORE OPERATION

For details, see “15.1 CHECK BEFORE OPERATION”.

24.3 EVERY 2 WEEKS OR EVERY 100 HOURS SERVICE

(Loading equipment)

24.3.1 GREASE LIFT CHAIN

24.4 EVERY MONTH OR EVERY 200 HOURS SERVICE

(Travel equipment)

24.4.1 CHECK WHEEL RIMS FOR DEFORMATION, CRACKING AND DAMAGE

24.4.2 CHECK WHEEL BEARINGS FOR PLAY AND ABNORMAL NOISE

(Hydraulic equipment)

24.4.3 CHECK HYDRAULIC CYLINDERS FOR LOOSENESS, DEFORMATION, CRACKING, DAMAGE AND WEAR

24.4.4 CHECK ALL PIPING/TUBING/CONNECTORS FOR OIL LEAKAGE, DEFORMATION OR DAMAGE

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SPECIFICATIONS - CX MODEL FORKLIFT TRUCKS

GENERAL

Model	Unit of Measure	FG40T-7	FG40T2-7	FD40T-7	FG45T2-7 FG50AT2-7	FD45T-7 FD50AT2-7
Capacity @24-inch (610 mm) load center	lb (kg)	9,000 (4,080)			10,000 (4,535)	
Power plant type		Gasoline/LPG		Diesel	Gasoline/LPG	Diesel
Number of wheels (front-wheel drive		2/2				
Service weight	lb (kg)	13,680 (6,205)		14,080 (6,385)	14,470 (6,560)	14,850 (6,735)

DIMENSIONS

Height to overhead guard	in. (mm)	88.8 (2,255)				
Lowered mast height (2-stage)	in. (mm)	88.6 (2,250)			92.5 (2,350)	
Extended mast height (83-in., 2-stage)	in. (mm)	180.3 (4,580)				
Maximum fork height (83-in., 2-stage)	in. (mm)	130 (3,300)				
Free lift heght (2-stage mast)	in. (mm)	6.7 (170)				
Length to face of forks (2-stage mast)	in. (mm)	122.4 (3,110)			124.2 (3,155)	
Length to face of forks (3-stage mast)	in. (mm)	122.3 (3,105)			124.0 (3,150)	
Overall width	in. (mm)	57.1 (1,450)				
Tilting angle, 2-stage mast (forward/back)	degrees	6/12				
Tilting angle, 3-stage mast (forward/back)	degrees	6/6				
Outside turning radius (OTR)	in. (mm)	108.3 (2,750)			109.4 (2,780)	
Load distance from center axle (2-stage)	in. (mm)	21.7 (550)				
Load distance from center axle (3-stage)	in. (mm)	21.5 (545)				
Right angle stacking aisle (2-stage mast)	in. (mm)	129.9 (3,300) + LL			131.1 (3,330) + LL	
Right angle stacking aisle (3-stage mast)	in. (mm)	129.7 (3,295) +LL			130.9 (3,325) + LL	

PERFORMANCE

Maximum travel speed, forward, loaded	mph (km/h)	11.8 (19.0)	14.9 (24)	11.2 (18.0)	14.6 (23.5)	13.7 (22.0)
Maximum travel speed, forward, unloaded	mph (km/h)	12.7 (20.5)	16.2 (26)	12.1 (19.5)	16.2 (26)	15.2 (24.5)
Lifting speeds, loaded/unloaded (2-stage)	fpm (mm/s)	100/112 (510/570)		110/116 (560/590)	86/94 (440/480)	90/94 (460/480)
Lifting speeds, loaded/unloaded (3-stage)	fpm (mm/s)	92/102 (470/520)		100/104 (510/530)	84/90 (430/460)	88/92 (450/470)
Lowering speeds, loaded/unloaded (2-stage)	fpm (mm/s)	94/108 (480/550)			88/88 (450/450)	
Lowering speeds, loaded/unloaded (3-stage)	fpm (mm/s)	86/76 (440/390)			82/73 (420/370)	
Maximum drawbar pull	lb (KN)	6,320 (28.1)	7,620 (33.9)	7,180 (31.9)	7,600 (33.8)	8,440 (37.5)
Gradeability, loaded/unloaded	percent (%)	28/22	35/22	31/22	32/21	35/21

CHASSIS AND WHEELS

Tire size, front		300-15-18PR(I)
Tire size, rear		7.00-12-12PR(I)
Wheelbase	in. (mm)	78.7 (2,000)
Tread (center of tires), front/rear	in. (mm)	45.3/44.1 (1,150/1,120)
Ground clearance, under mast	in. (mm)	5.5 (140)
Ground clearance, center of frame	in. (mm)	8.7 (220)
Service brake type		Hydraulic
Parking brake type		Mechanical
Steering type		F.H.P.S.

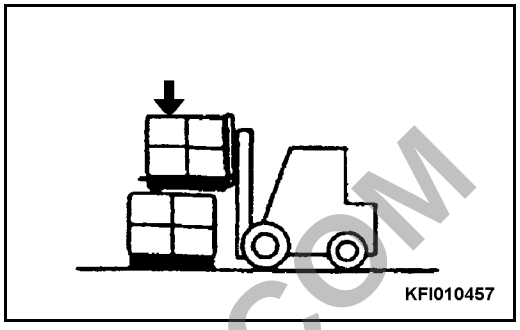
POWER TRAIN

Engine model		TB42	6D102E	TB42	6D102E
Rated power (SAE gross)	HP (KW) @rpm	88 (65) @ 2,300	95 (71) @ 2,150	88 (65) @ 2,300	95 (71) @ 2,150
Maximum torque (SAE gross)	lb-ft (N-m) @rpm	203 (275) @ 1,900	253 (343) @ 1,500	203 (275) @ 1,900	253 (343) @ 1,500
No. of cylinders/displacement	cu. in. (cm^3)	6/254 (4,169)	6/359 (5,880)	6/254 (4,169)	6/359 (5,880)
Cylinder bore x stroke	in. (mm)	3.8 x 3.8 (96 x 96)	4 x 4.7 (102 x 120)	3.8 x 3.8 (96 x 96)	4 x 4.7 (102 x 120)
Fuel tank capacity	U.S. gal. (L)	26 (100)			
Air cleaner type		Cyclone			
Battery voltage/capacity (20-hr rating)	V/Ah	12/60	24/70	12/60	24/70
Clutch type		Torque converter			
Transmission type		TORQFLOW			
Maximum hydraulic pressure	psi (bar)	2,650 (181)			
Hydraulic tank capacity	U.S. gal. (L)	15 (55)			

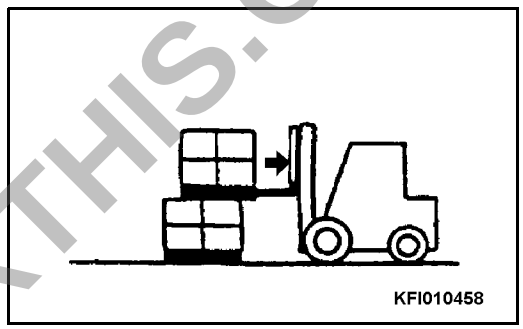
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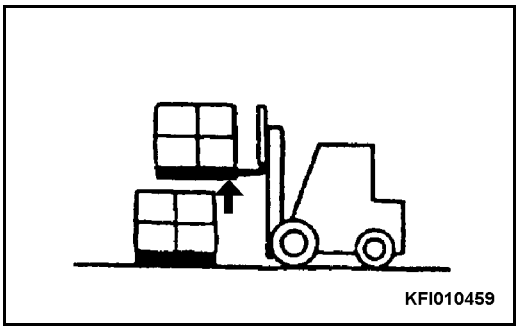
5. Lower the load temporarily to the stacking point.



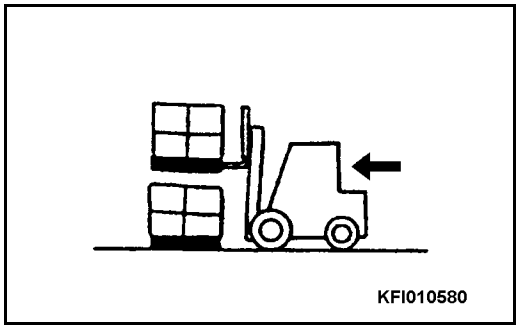
6. Reverse and slowly withdraw the forks 1/4 to 1/3 of the way out from beneath the load.



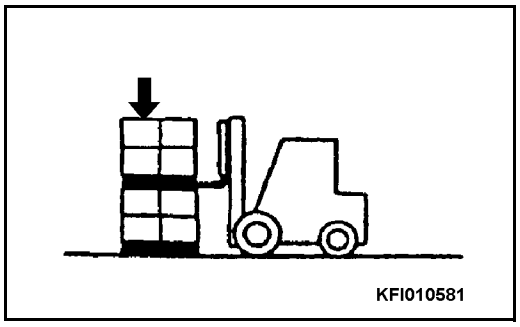
7. Raise the load again 2 - 4 in. (5 - 10 cm).



8. Position the load correctly above the stacking point.



9. Lower the load to the correct stacking position.



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EXPLANATION OF COMPONENTS

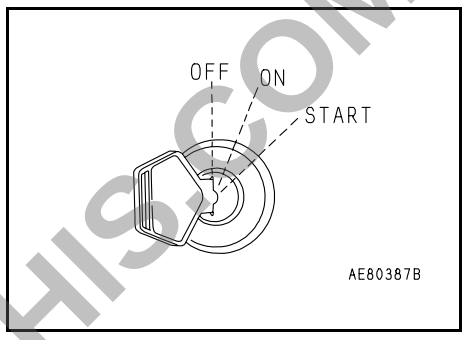
The following is an explanation of the devices employed to operate the lift truck
To carry out suitable operations correctly and safely, it is important to understand fully the method of operating the equipment and the meanings of the displays.

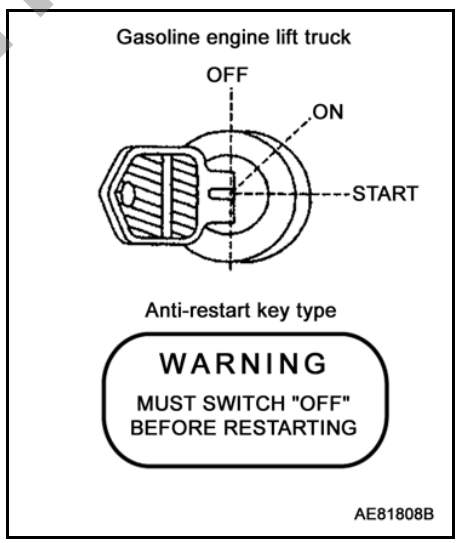
1. STARTING SWITCH

This is used to start and stop the engine.

- **Clutch-type lift truck:**
  When starting the engine, place the forward/reverse control lever and high/low speed control lever at the neutral position, pull the parking brake lever, and depress the clutch pedal fully. Then turn the key.

- **TORQFLOW transmission lift truck:**
  When starting the engine, place the forward/reverse control lever at the neutral position, pull the parking brake lever, and depress the inching pedal fully, then turn the key.





OFF: Engine stop position
The key can be inserted or removed. The lamps and horn are activated at this position.

ON: Engine running position
For diesel engine lift trucks, carry out preheating before starting the engine.
See **"3. A. GLOW INDICATOR (DIESEL ONLY) on page 2-10"**.

START: Position for starting engine
After the engine starts, release the key. It will automatically return to the ON position.

Precautions for restarting the engine (Applies to gasoline/LPG engine lift trucks only)
When the engine does not start, return the key from the START position to the OFF position. With the anti-restart feature installed, the key cannot be turned to the START position again, if it is returned only to the ON position. Return the key to the OFF position, then restart.

NOTICE

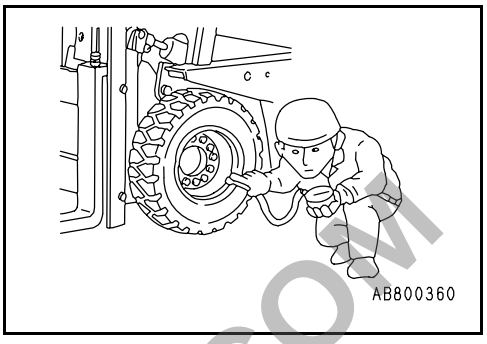
- **When the engine is stopped, do not leave the key at the ON position. This will discharge the battery and make it difficult to start the engine.**
- **Do not run the starting motor continuously for longer than the times given below.**

Gasoline and LPG engine lift truck	**Maximum 5 seconds**
Diesel engine lift truck	**Maximum 10 seconds**

- **Do not turn the key to the START position when the engine is running.**

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3. CHECK TIRES AND RIMS



Check the tires and rims for the following items.

- Whether the tire pressure matches the specified pressure. (Pneumatic tire lift truck only)

Specified pressure:

Front tires: 100 PSI (0.69 MPa) (7.0 kgf/cm^2)

Rear tires: 100 PSI (0.69 MPa) (7.0 kgf/cm^2)

- Check that there are no loose lug nuts or rim mating nuts.

Tightening torque:

Check item	CX lug (hub) nut tightening torque	CX rim mating nut tightening torque
Front wheels	217 - 361 ft/lbs (294 - 490 Nm) (30 - 50 kgfm)	--
Rear wheels		141 - 181 ft/lbs (196 - 245 Nm) (20 - 25 kgfm)

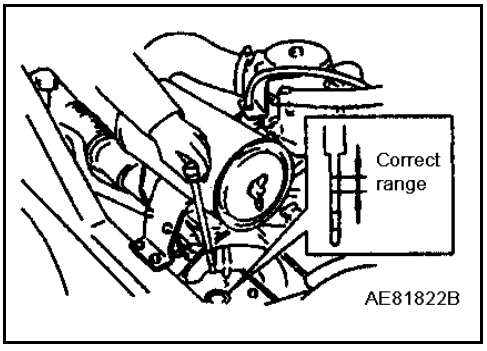
NOTICE

Tighten the lug nuts to the specified torque. (For tightening torque see **"21. SERVICE DATA".**)

- Check the tires for excessive wear, damage, and adhesion of foreign matter.
- Check the tires for deformation or damage.

4. CHECK OIL LEVEL IN HYDRAULIC TANK

1. Lower the forks fully to the floor and stand the mast vertically (perform on flat floor).
2. Open the engine hood and remove the dipstick (combined with breather) on the right side of the lift truck.
3. Wipe off hydraulic oil with a clean cloth and insert dipstick into the tank.
4. Take out the dipstick again and check to see if it indicates the proper level.
5. If the oil level is low, add genuine Komatsu Forklift oil through the filler.



NOTICE

Always use genuine Komatsu Forklift hydraulic oil.

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6. SAFETY MANAGEMENT

WARNING

OPERATION MANUAL AND SAFETY LABELS

- Read the instructions in this Manual and the Safety Labels attached to the various parts of the lift truck, and make sure that you understand and follow them. If you do not understand or do not follow the instructions, this will lead to improper operation which may lead to damage, personal injury or death.
- Be sure that you understand the proper method of using the lift truck and the procedure for carrying out an inspection, and ensure that they are carried out safely.
- Read this Manual and the Safety Labels again from time to time. If the Operation and Maintenance Manual or Safety Labels have been lost or become dirty and cannot be read, obtain replacements from your Komatsu Forklift distributor/dealer and attach the Safety Labels in the specified positions.

WARNING

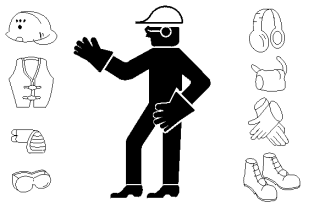
OPERATING QUALIFICATIONS

- This lift truck should be operated only by qualified personnel. Be sure you have proper qualifications before operating the lift truck.
- When operating this lift truck, even if you have experience in operating other lift trucks, obtain instructions from an authorized person who has experience in operating this lift truck or the same type of lift truck.

WARNING

CLOTHING AND PERSONAL PROTECTIVE ITEMS

- Avoid loose clothing, jewelry, and loose long hair. They can catch on controls or in moving parts and cause serious injury or death.
- Always wear a hard hat and safety boots.
- Depending on the working conditions, wear other safety equipment in addition to the hard hat and safety boots.



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WARNING

OVERHEAD GUARD, LOAD BACKREST

- Do not use this lift truck unless it is equipped with the overhead guard and load backrest shipped with the lift truck from the factory by Komatsu Forklift.

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