D - EVERY 500 HOURS SERVICE

Carry out the operations described previously as well as the following operations.

D1 - DRY AIR FILTER CARTRIDGE

CHANGE

In a heavily dust laden atmosphere, use a pre-filtration cartridge, see: 3 - MAINTENANCE: FILTERS CARTRIDGES AND BELTS. Also, checking and cleaning the cartridge must be increased (to every 250 hours in a heavily laden dust atmosphere and with pre-filtration).

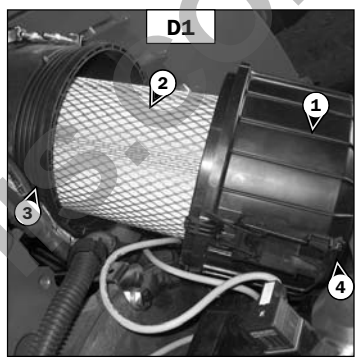
IMPORTANT	*Change the cartridge in a clean location, with the I.C. engine stopped. Never run the I.C. engine with the air filter removed or damaged.*

- Open the I.C. engine cover.
- Loosen the bolts and remove cover 1 (fig. D1).
- Gently remove the cartridge 2 (fig. D1), taking care to avoid spilling the dust.
- Leave the safety cartridge in place.

The following parts must be cleaned with a damp, clean lint-free cloth.

- The inside of the filter and cover.
- The inside of the filter inlet hose.
- The gasket surfaces in the filter and in the cover.

- Check hoses and connections between the air filter and the I.C. engine and the connection and state of the clogging indicator 3 (fig. D1) on the filter.
- Before installing check the state of the new cartridge (see: 3 - MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Introduce the cartridge into the filter axis and push it in place, pressing the edges and not the middle.
- Reassemble the cover, keep the valve 4 (fig. D1) pointed down.



D2 - I.C. ENGINE OIL

DRAIN

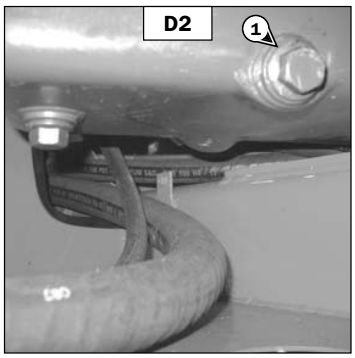
D3 - I.C. ENGINE OIL FILTER

CHANGE

Park the lift truck on level ground, let the I.C. engine run at idle for a few minutes, then stop the I.C. engine.

DRAINING THE OIL

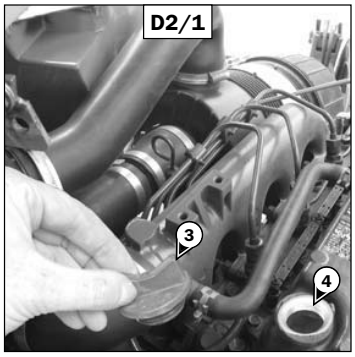
- Open the I.C. engine cover.
- Place a receptacle under the drain hole 1 (fig. D2) and the filter 2 (fig. D3).
- Unscrew the drain plug 1 (fig D2).
- Remove filler cap 3 (fig. D2/1) to ensure that the oil is drained properly.



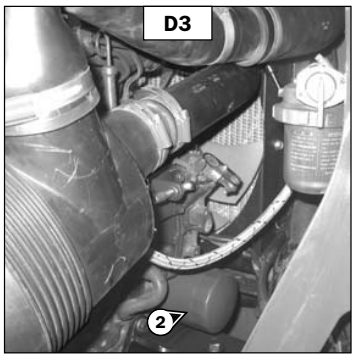
IMPORTANT	*Dispose of the drain oil in an ecological manner.*

REPLACEMENT OF THE FILTER

- Remove I.C. engine oil filter 2 (fig. D3) ; discard the filter and the filter seal.
- Clean the filter bracket with a clean, lint-free cloth.
- Fill the new oil filter (see: 3 - MAINTENANCE: FILTERS CARTRIDGES AND BELTS) with I.C. and lightly grease the seal.
- Install the oil filter on the filter bracket.



IMPORTANT	*Tighten the oil filter by hand pressure only and lock the filter in place by a quarter turn.*



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SERVICING SCHEDULE

A = AJUST	N = CLEAN
C = CHECK	R = CHANGE
D = DESCALE	V = DRAIN/CHANGE
G = GREASE	

	After the first 50 hours	Day or 10 hours	50 hours	6 month or 250 hours	1 year or 500 hours	1 year or 1000 hours	2000 hours	4000 hours
I.C. ENGINE								
I.C. engine oil level		C						
Cooling liquid level		C						
Fuel level		C						
Dry air filter cartridge			N		R			
Dry air filter valve		N						
Radiator core			N					
Alternator/crankshaft belt tension				C/A				
I.C. engine oil					V			
I.C. engine oil filter					R			
Fuel filter cartridge					R			
Fuel tank						N		
Safety dry air filter cartridge						R		
Alternator belt						R		
I.C. engine silent blocks						C**		
I.C. engine rates						C**		
Valves clearances						C**		
Cooling liquid							V	
Coolant concentration				C				
Internal combustion engine's sniffler							R	
Radiator							N/D**	
Water pump and the thermostat							C**	
Alternator and the starter motor							C**	
Bleed the fuel supply circuit								
TRANSMISSION								
Hydrostatic transmission circuit pressures							C**	
Governing start of the hydrostatic transmission							C**	
Working order of the transmission cut-off hydraulic valve							C**	
TIRES								
Tires pressure		C						
Wheel nuts torque		C						
Condition of wheels and tires						C**		
Change a wheel								
JIB								
Jib pads		G*						
Jib			G					
Jib pads wear						C**		
Condition of jib unit							C**	
Bearings and articulation rings							C**	
HYDRAULICS								
Hydraulic oil level			C					
Suction oil and hydraulic return filter cartridge	R				R			
Balancing valve	C				C			
Hydraulic oil						V		
Suction strainer for hydraulic oil tank						N		
Filter cap for hydraulic oil tank						R		
Speeds of hydraulic movements						C**		
Condition of hoses and flexibles pipes						C**		
Condition of cylinders (leakage, shafts)						C**		
Hydraulic circuit pressures							C**	
Hydraulic circuit outputs							C**	
Hydraulic oil tank							N**	
BRAKE								
Wear on the disc brakes on the front or rear wheel motors				C/A				

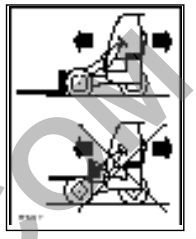
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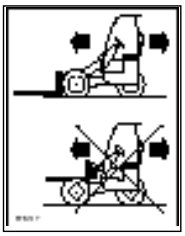
F - DRIVING THE LIFT TRUCK

SAFETY NOTICE

DANGER	*Operators' attention is drawn to the risks involved in using the lift truck, in particular :* *- Risk of losing control.* *- Risk of losing lateral and frontal stability of the lift truck.* *The operator must remain in control of the lift truck. In the event of the lift truck overturning, do not try to leave the cab during the incident. YOUR BEST PROTECTION IS TO STAY FASTENED IN THE CAB.*



- Observe the company's traffic regulations or, by default, the public highway code.
- Do not carry out operations which exceed the capacities of your lift truck or attachments.
- Always drive the loaded lift truck with the forks or attachment at the transport position, i.e. at 12 in. from the ground, the boom retracted and the carriage sloping backwards.
- When unloaded, travel with the boom extended as shown and the forks 12 in. from the ground (transport position).
- Only carry loads which are balanced and properly anchored to avoid any risk of a load falling off.
- Ensure that palettes, cases, etc, are in good order and suitable for the load to be lifted.
- Familiarise yourself with the lift truck on the terrain where it will be used.
- Ensure that the service brakes are working properly.
- The loaded lift truck must not travel at speeds in excess of 7 mph.
- Drive smoothly at an appropriate speed for the operating conditions (land configuration, load on the lift truck).
- Do not use the hydraulic boom controls when the lift truck is moving.
- Do not manoeuvre the lift truck with the boom in the raised position unless under exceptional circumstances and then with extreme caution, at very low speed and using gentle braking. Ensure that visibility is adequate.
- Take bends slowly.
- In all circumstances make sure you are in control of your speed.
- On damp, slippery or uneven terrain, drive slowly.
- Brake gently, never abruptly.
- Only use the lift truck's forward/reverse lever from a stationary position and never do so abruptly.
- Do not drive with your foot on the brake pedal or with the parking brake on.
- Always remember that hydrostatic type steering is extremely sensitive to movement of the steering wheel, so turn it gently and not jerkily.
- Never leave the I.C. engine on when the lift truck is unattended.
- Do not leave the cab when the lift truck has a raised load.
- Look where you are going and always make sure you have good visibility along the route.
- Use the rear-view mirrors frequently.
- Drive around obstacles.
- Never drive on the edge of a ditch or steep slope.
- It is dangerous to use two lift trucks simultaneously to handle heavy or voluminous loads, since this operation requires particular precautions to be taken. It must only be used exceptionally and after risk analysis.



INSTRUCTIONS

- Always drive the loaded lift truck with the forks or attachment at the transport position, i.e. 12 in. from the ground, the boom retracted and the carriage sloping backwards.
- When unloaded, travel with the boom extended as shown and the forks 12 in. from the ground (transport position).
- Release the parking brake.
- Shift the forward/reverse lever to the selected direction of travel and accelerate gradually until the lift truck moves off.

G - STOPPING THE LIFT TRUCK

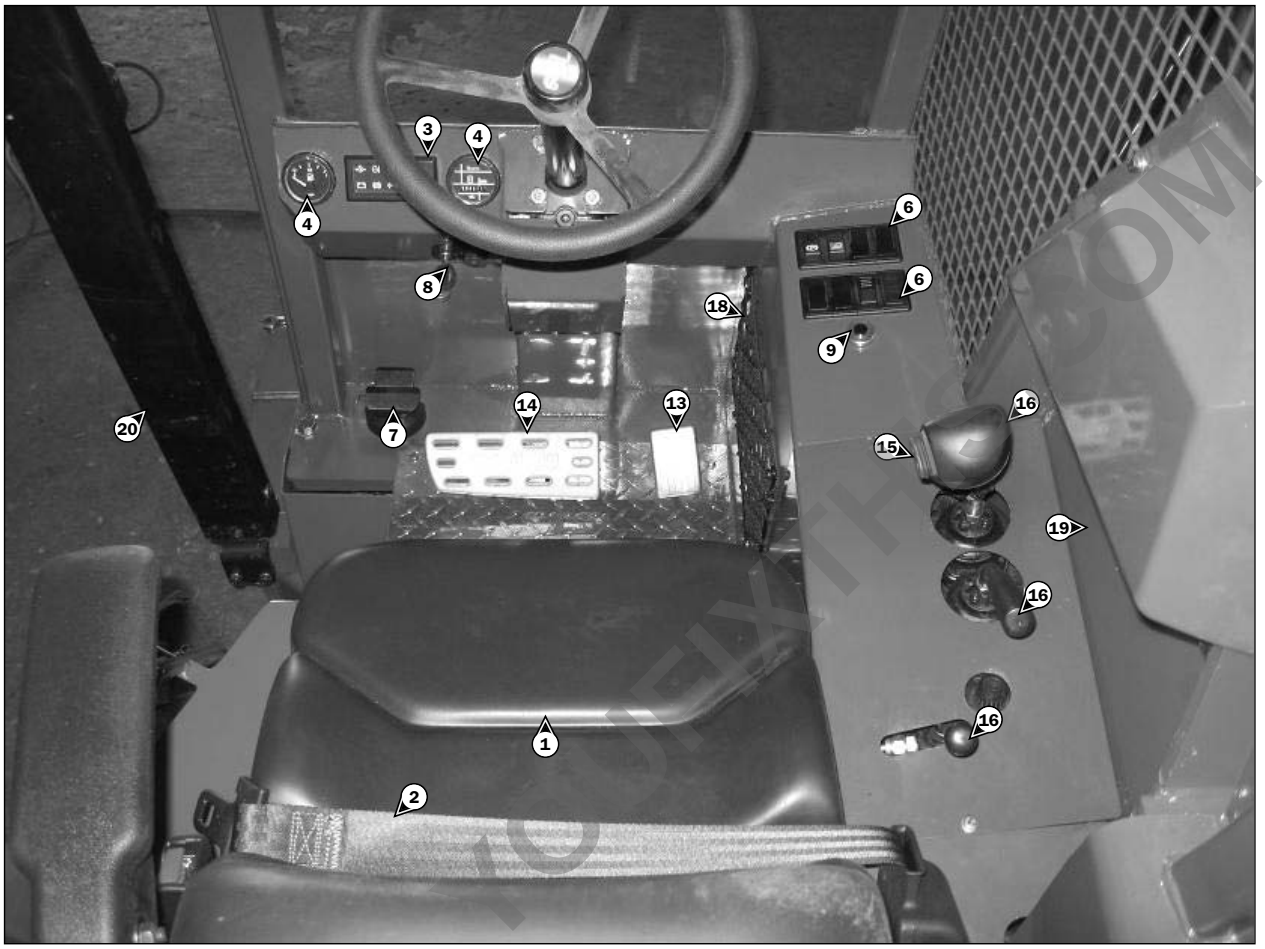
SAFETY NOTICE

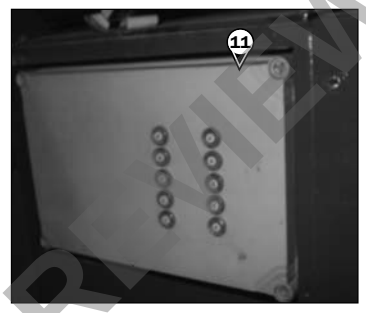
- Never leave the ignition key in the lift truck during the operator's absence.
- When the lift truck is stationary, or if the operator has to leave his cab (even for a moment), place the forks or attachment on the ground, place the gear lever in neutral, apply the parking brake and put the forward/reverse lever in neutral.
- Make sure that the lift truck is not stopped in any position that will interfere with the traffic flow and is at least 6 ft from the track of a railway.
- In the event of prolonged parking on a site, protect the lift truck from bad weather, particularly from frost (check the level of antifreeze), close and lock all the lift truck accesses (door, window, engine cover…).

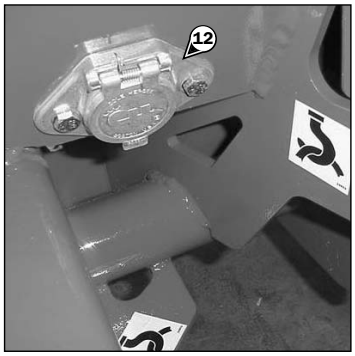
INSTRUCTIONS

- Park the lift truck on flat ground or on an incline lower than 15 %.
- Place the forward/reverse lever in neutral.
- Apply the parking brake.
- Lower the forks or attachment to rest on the ground.
- When using an attachment with a grab or jaws, or a bucket with hydraulic opening, close the attachment fully.

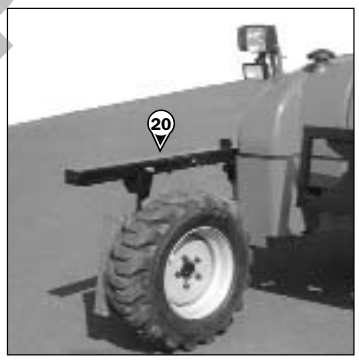
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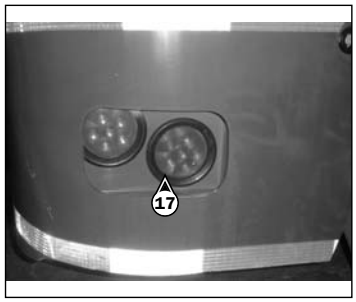














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G6 - LIFT TRUCK ON A PLATFORM

TRANSPORT

CAUTION

Ensure that the safety instructions concerning the platform are followed before loading the lift truck, and that the truck driver has been informed about the dimensions and the weight of the lift truck (See 2 - DESCRIPTION : CHARACTERISTICS).
Ensure that the platform has dimensions and a load capacity sufficient for transporting the lift truck. Check also the pressure on the contact surface allowable for the platform in connection with the lift truck.

LOAD THE LIFT TRUCK

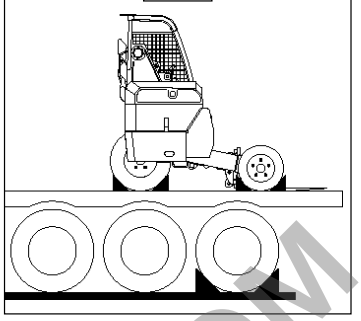
- Block the wheels of the trailer (Fig. G6/1).
- Fix the loading ramps so that you obtain an angle as little as possible to lift the lift truck.
- Load the lift truck parallel to the platform.
- Park the lift truck (see : 1 - OPERATING AND SAFETY INSTRUCTIONS : DRIVING INSTRUCTIONS UNLADEN AND LADEN).

WARNING *The lift truck must be loaded on the transport semitrailer in reverse motion and unloaded in forward motion.*

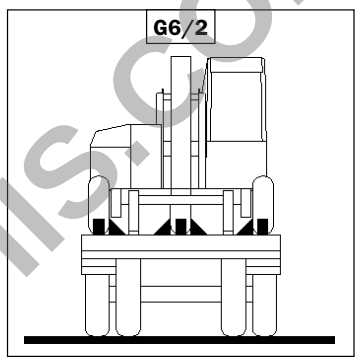
STOW THE LIFT TRUCK

- Fix the chocks to the platform at the front and at the back of each tire (Fig. G6/1).
- Also fix the blocks to the trailer in the inside of the front wheels and on each side of the rear wheel (Fig. G6/2).
- Secure the lift truck on the trailer with straps or chains. At the front of the lift truck and at the rear (Fig. G6/3).
- Tighten the straps/chains correctly (Fig. G6/3).

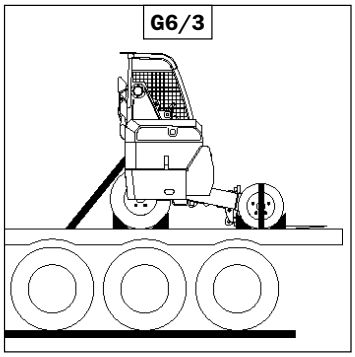
G6/1



G6/2



G6/3



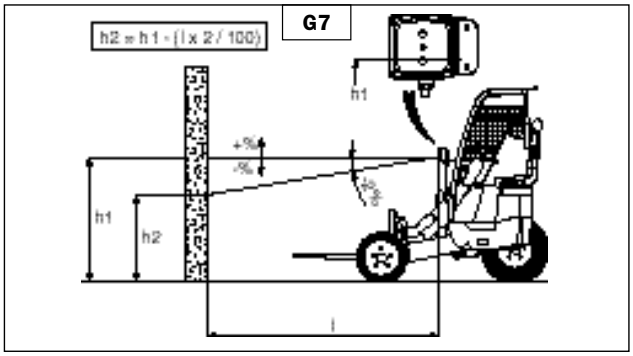
G7 - FRONT HEADLAMPS

ADJUST

RECOMMENDED SETTING
(as per standard ECE-76/756 76/761 ECE20)
Set to - 2% of the dipped beam in relation to the horizontal line of the headlamp.

ADJUSTING PROCEDURE
- Park the lift truck unloaded and in the transport position and perpendicular to a white wall on flat, level ground (fig. G7).
- Check the tire pressures (see : 2 - DESCRIPTION : CHARACTERISTICS).
- Put the lift truck in neutral and release the parking brake.

G7



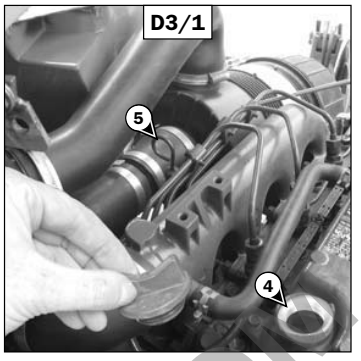
CALCULATING THE HEIGHT OF THE DIPPED BEAM (H2)
- h1 = Height of the dipped beam in relation to the ground.
- h2 = Height of the adjusted beam.
- l = Distance between the dipped beam and the white wall.

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FILLING UP THE OIL

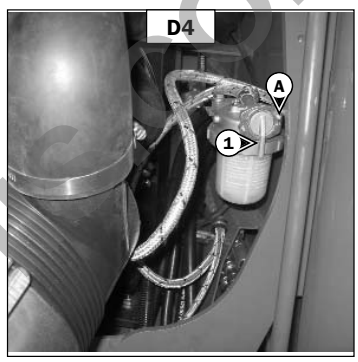
- Install and tighten drain plug 1 (fig. D2) (tightening torque 25 ft.lb.).
- Fill up with oil (see: 3 - MAINTENANCE: LUBRICANTS AND FUEL) by filler port 4 (fig. D3/1).
- Wait a few minutes to allow the oil to settle.
- Start the I.C. engine and let it idle for a few minutes.
- Check for possible leaks at the drain plug and oil filter.
- Stop the I.C. engine, wait a few minutes and check the level between the two notches on the dipstick 5 (fig. D3/1).
- Top up the level if necessary.

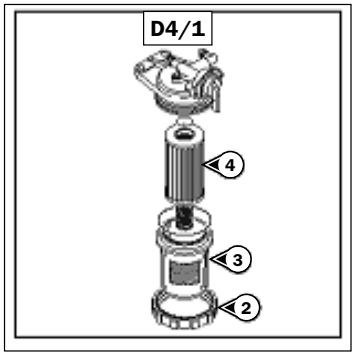


D4 - FUEL FILTER CARTRIDGE

CHANGE

- Open the I.C. engine cover.
- Carefully clean the outside of the filter and bracket. Prevent dirt from entering the system.
- Close valve 1 (fig. D4) by setting to position A.
- Unscrew the retaining ring 2, remove housing 3 and clean inside using a brush immerse in clean diesel oil.(fig. D4/1).
- Remove the filter cartridge 4 (fig. D4/1).
- Install a set of new seals and a new cartridge (see: 3 - MAINTENANCE: FILTERS CARTRIDGES AND BELTS).
- Start up the I.C. engine and and check for leaks.
- If necessary, bleed the fuel circuit (see: 3 - MAINTENANCE: G1 - OCCASIONAL MAINTENANCE).





D5 - SUCTION OIL AND HYDRAULIC RETURN FILTER CARTRIDGE

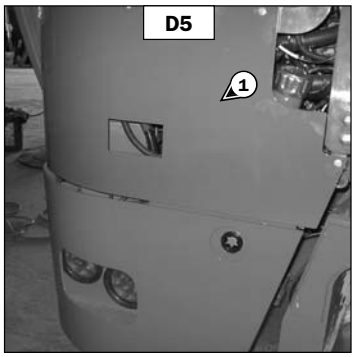
CHANGE

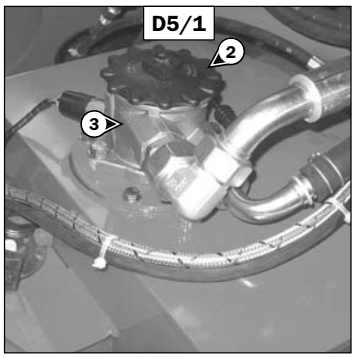
Place the lift truck on horizontal ground, Stop the I.C. engine and remove the pressure from the circuits by acting on the hydraulic controls.

IMPORTANT	*Thoroughly clean the outside of the filter and its surroundings before any intervention to prevent polluting the hydraulic circuit.*

- Remove the rear plate 1 (fig D5).
- Remove the filter head cap 2 (fig. D5/1) with a wrench.
- Remove the hydraulic return oil filter cartridge 3 (fig. D5/1) and replace it with a new one (see: 3 - MAINTENANCE: LUBRICANTS AND FUEL).
- Make sure that the cartridge is installed correctly.
- Refit the filter head cap 2 (fig. D5/1) and lock it in place with a wrench.

IMPORTANT	*Do not operate the lift truck without the oil filter cartridge, doing so would immediately damage the transmission hydraulic circuit, the hydrostatic wheel motors and pump.*





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A = AJUST C = CHECK D = DESCALE G = GREASE	N = CLEAN R = CHANGE V = DRAIN/CHANGE

	After the first 50 hours	Day or 10 hours	50 hours	6 month or 250 hours	1 year or 500 hours	1 year or 1000 hours	2000 hours	4000 hours
CAB								
Seat belt						C		
Condition of the rear view mirrors						C**		
ELECTRICITY								
Battery electrolyte level			C					
Battery electrolyte density					C			
Condition of wiring harness and cables						C**		
Lights and signals						C**		
Warning indicators						C**		
Adjust the front headlamps								
FRONT AXLE ASSEMBLY								
Rear wheel steering pivot			G					C**
Rear wheel steering cylinder			G					C**
Steering							C**	
Steering speed restrictor					C**			
FRONT STEERING								
Front wheel steering pivot			G					C**
Front wheel steering cylinder			G					C**
CHASSIS								
Structure						C**		
Bearings and articulation rings							C**	
ATTACHMENTS								
Forks wear					C**			
Attachment carriage						C**		
Condition of attachments						C**		
LIFT TRUCK								
Tow the lift truck								
Sling the lift truck								
Transport the lift truck on a platform								

(*): Every 10 hours during the first 50 hours, then once at 250 hours.
(**): Consult your dealer.

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D - TAKING UP AND LAYING A HIGH LOAD ON TIRES

WARNING

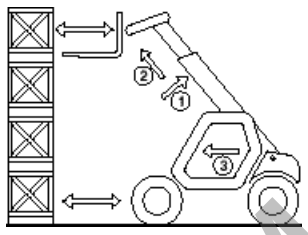
Do not raise the boom until you have first checked the level attitude of the lift truck (see : INSTRUCTIONS FOR HANDLING A LOAD : D - TRANSVERSE ATTITUDE OF THE LIFT TRUCK).

REMINDER : Make sure that the following operations can be performed with good visibility (see : OPERATIONS INSTRUCTIONS UNLADEN AND LADEN : D - VISIBILITY).

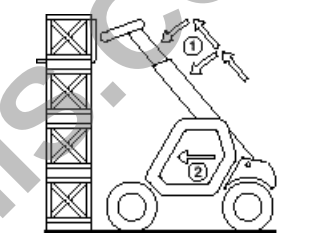
TAKING UP A HIGH LOAD ON TIRES

- Ensure that the forks will easily pass under the load.
- Lift and extend the boom (1) (2) until the forks are level with the load, moving the lift truck (3) forward if necessary (fig. F1), moving very slowly and carefully.
- Always think about keeping the distance necessary to fit the forks under the load, between the pile and the lift truck (fig. F1) and use the shortest possible length of boom.
- Place the forks in front of the load by alternately extending and raising the boom (1) or, if necessary, moving the lift truck forward (2) (fig. F2). Put the handbrake on and set the reverse gear to neutral.
- Slightly lift the load (1) and incline the carriage (2) backwards to stabilize the load (fig. F3). Watch the load, if it is unstable, lower the load in the place from which it was taken.
- If possible lower the load without shifting the lift truck. Lift the boom (1) to raise the load, retract (2) and lower the boom (3) to bring the load into the transport position (fig. F4).
- If this is not possible, back up the lift truck (1), maneuvering very gently and carefully to remove the load. Retract (2) and lower the boom (3) to bring the load into the transport position (fig. F5).

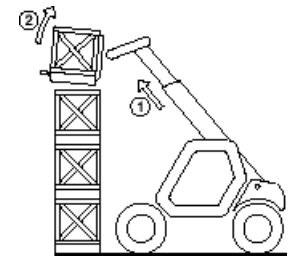
D1



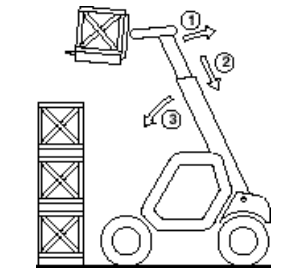
D2



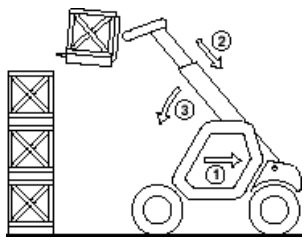
D3



D4



D5



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1 - DRIVER'S SEAT

2 - SAFETY BELT

3 - SIGNAL LIGHTS PANEL

4 - FUEL LEVEL AND HOURMETER

5 - BATTERY CUT-OFF

6 - SWITCH PANEL

7 - DIFFERENTIAL LOCK PEDAL

8 - IGNITION SWITCH

9 - SOUND ALARM SWITCH (HORN)

10 - PLATE: ACCESS TO TANKS

11 - FUSE AND RELAY

12 - SOCKET FOR TRUCK TRAILER LIGHTING

13 - ACCELERATOR PEDAL

14 - SERVICE BRAKE PEDAL AND TRANSMISSION CUT-OFF

15 - FORWARD/REVERSE SWITCH

16 - HYDRAULIC CONTROL DISTRIBUTOR LEVERS

17 - REAR LIGHTS

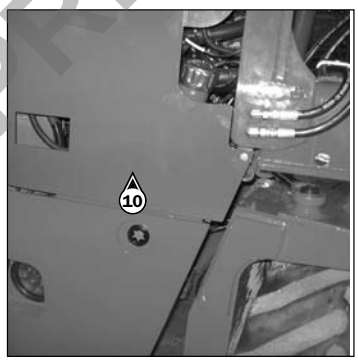
18 - DOCUMENT HOLDER

19 - LOAD CHARTS FILE

20 - REMOVABLE LOAD CARRIER

NOTE : All the terms such as : RIGHT, LEFT, FRONT, REAR are meant for an observer seated on driver's seat and looking in front of him.

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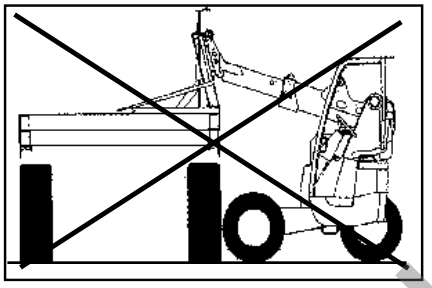


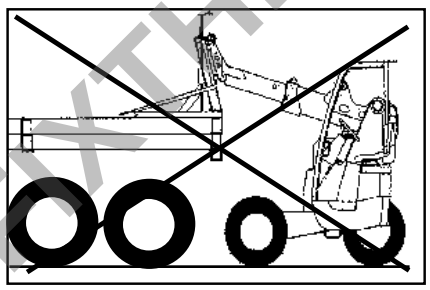
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MOUNTING THE LIFT TRUCK ONTO THE TRAILER OR CARRIER

DANGER

Never mount the TMT Lift Truck to the trailer as shown below! Use only the Mounting Kit as approved by Manitou Americas Inc.. The approved kit mounts the lift truck below the trailer bed at the rear of the trailer. Mounting the forklift higher than recommeded may result in damage to the lift truck, serious injury or death!





WARNING

The mounting kit for the TMT must be supplied or approved in writting by Manitou Americas Inc.

WARNING

Ensure the tractor/trailer is properly parked and secured, utilizing wheel chocks as required.

WARNING

The Retractable Load Carriers must be retracted and secured in the raised position before mounting the forklift to the trailer. See CHAPTER 2: INSTRUMENTS AND CONTROLS: 22 - RETRACTABLE LOAD CARRIERS.

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1 - MOUNTING THE LIFT TRUCK ONTO THE TRAILER

- MANITOU SYSTEM MOUNTING-

1.) Learn the controls. Execute all movements slowly. All forklift movements are to be made by the operator positioned in the operator's seat, with the seat belt fastened. Take extra precaution when entering and exiting the cab while it is in the raised position.

2.) Fully retract the boom, Lever 1 left.

3.) Side shift the boom until it is centered, move Lever 2 to the right or left as needed (fig. 1A shows the boom centered on the side shift cylinder).

4.) Align the forks to the trailer sleeves (fig. 1B), insure the forks are equally spaced from the center of the carriage.

5.) Maneuver the forks into the sleeves, make adjustments as required, insure both forks are fully inserted and flush with the trailer bed (fig. 1C).

6.) Tilt the carriage back slightly, until the forks are tight in the sleeves, Lever 2 back.

7.) Raise the forklift off the ground, Lever 1 forward, the full distance of travel.

8.) Tilt the lift truck fully forward, Lever 2 back.

9.) Extend the boom - 5" max., Lever 1 to the right. Carefully exit the cab.

10.) With the hook tool, fully extend both support arms (fig. 1D).

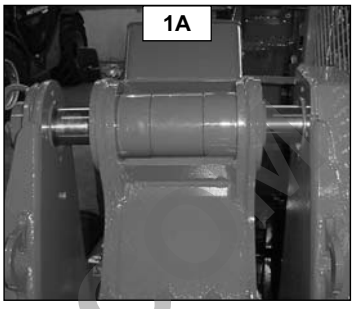
11.) Carefully enter the cab. Retract the boom, Lever 1 to the left.

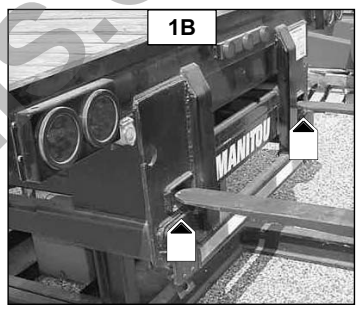
12.) To set the forklift on the support arms, tilt the lift truck back, Lever 2 forward.

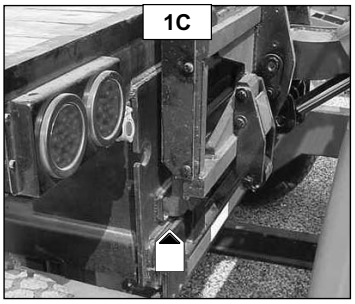
13.) Make sure the support arms are locked in place (fig. 1E).

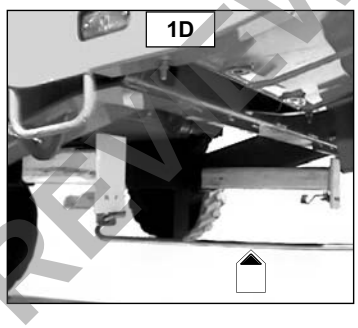
14.) Stop the engine and remove the key.

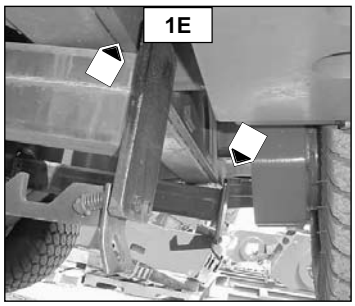
15.) Connect the trailer lights electrical cable (1) and straps (2) (fig. 1F).

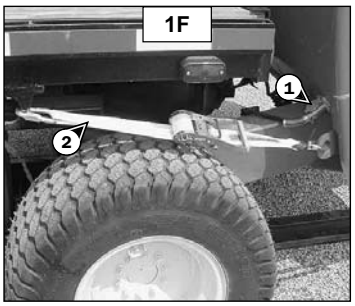












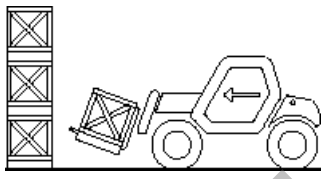
MANITOU SYSTEM MOUNTING		
1.) Lever 2	6 o'clock	Locks Forks in place
2.) Lever 1	12 o'clock	Fully raise Forklift
3.) Lever 2	6 o'clock	Tilt Forklift fully forward
4.) Lever 1	3 o'clock	Extend Boom 5 inches
5.) Extend Support Arms fully		
6.) Lever 1	9 o'clock	Fully retract the Boom
7.) Lever 2	12 o'clock	Levels TMT on Support Arms
8.) Connect Trailer Lights and Locking Straps		

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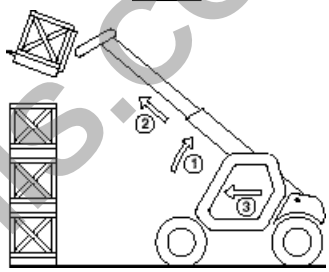
LAYING A HIGH LOAD ON TIRES

- Approach the load in the transport position in front of the pile (fig. F6).
- Put the handbrake on and set the reversing lever to neutral.
- Lift and extend the boom (1) (2) until the load is above the pile, if necessary, move the lift truck (3) forward (fig. F7), driving very slowly and carefully.
- Place the load in a horizontal position and lay it down on the pile by lowering and retracting the boom (1) (2) in order to position the load correctly (fig. F8).
- If possible, release the fork by alternately retracting and raising the boom (1) (fig. F9). Then set the forks into transport position.
- If this is not possible, reverse the lift truck (1) very slowly and carefully to release the forks (fig. F10). Then set them into transport position.

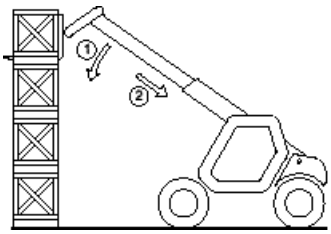
D6



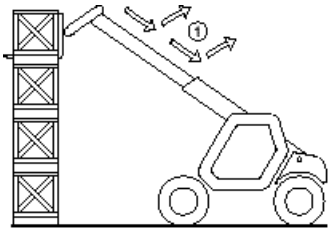
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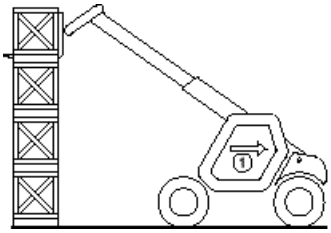
D8



D9



D10



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