SERVICING SCHEDULE

⚠ IMPORTANT ⚠

(1): MANDATORY 500 HOUR OR 6 MONTH SERVICE. This service must be carried out after approximately the first 500 hours of operation or within the 6 months following the start-up of the machine (whichever occurs first).

(2): Every 10 hours during the first 50 hours, then once at 250 hours.

(3): Consult your dealer.

A = ADJUST, C = CHECK, G = GREASE, N = CLEAN, P = BLEED, R = REPLACE, V = DRAIN	PAGE	(1)	DAILY OR EVERY 10 HOURS OF SERVICE	EVERY 50 HOURS OF SERVICE	EVERY 250 HOURS OF SERVICE	EVERY 500 HOURS OF SERVICE OR1 YEAR	EVERY 1000 HOURS OF SERVICE OR EVERY YEAR	EVERY 2000 HOURS OF SERVICE OR EVERY TWO YEARS	EVERY 3000 HOURS OF SERVICE OR EVERY TWO YEARS	EVERY 4000 HOURS OF SERVICE	OCCASIONALLY
I.C. ENGINE											
- I.C. engine oil level	3-12		C								
- Cooling liquid level	3-12	C	C								
- Fuel level	3-13	C	C								
- Fuel pre-filter	3-13		C								
- Radiator core	3-14	C/N		C/N							
- I.C. engine oil	3-20	V				V					
- I.C. engine oil filter	3-20	R				R					
- Engine crankcase ventilation system	3-21	C				C					
- Fuel pre-filter	3-21	R				R					
- Fuel filter	3-21	R				R					
- Automatic alternator belt tensioner	3-22	C				C					
- Fuel tank	3-24						N				
- Dry air filter cartridge	3-24						R				
- Engine crankcase ventilation filter	3-25	R					R				
- I.C. engine silent blocks							C (3)				
- I.C. engine rates							C (3)				
- Cooling liquid	3-28							V			
- Safety dry air filter cartridge	3-30								R		
- Valves clearances									C (3)		
- Thermostat									C (3)		
- Preheating plug test									C (3)		
- Alternator belt	3-32										R
- "Stationary lift truck" exhaust particle filter	3-34										XXX
TRANSMISSION											
- Gear box oil level	3-14			C							
- Gear box oil	3-25	V					V				
- Gear box oil filter	3-25	R					R				
- Silentblocks in the gear box							C (3)				
- Gear box controls							C (3)				
- Transmission pressure								C (3)			
- Wear of the brake pads and the brake disk										C (3)	
TYRES											
- Tyres pressure	3-13	C	C								
- Wheel nuts torque	3-13	C	C								
- Condition of wheels and tyres							C (3)				
- Wheel	3-34										R
JIB											
- Jib pads	3-13		G (2)								
- Jib	3-15	G		G							
- Jib pads wear							C (3)				
- Condition of jib unit		C						C (3)			
- Bearings and articulation rings								C (3)			
HYDRAULIC											
- Hydraulic oil level	3-16	C		C							
- Hydraulic return oil filter cartridge	3-23	R				R					
- Hydraulic oil	3-26						V				
- Breather for the hydraulic oil tank	3-26						R				
- Suction strainer for hydraulic oil tank	3-26						N				
- Brake accumulator unit filter	3-26						R				
- Condition of hoses and flexible pipes							C (3)				
- Condition of cylinders (leakage, shafts)							C (3)				
- Hydraulic circuit pressures								C (3)			
- Hydraulic oil tank								N (3)			

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CHARACTERISTICS

MLT 840-115 PS

I.C. ENGINE		
Type		JOHN DEERE 4045 PWX 86KW DD10604
Fuel		Diesel
Number of cylinders		4 in line
Suction		Supercharged
Injection system		Direct
Ignition sequence		1.3.4.2
Capacity	cm^3	4500
Bore and stroke	mm	106 x 127
Compression ratio		17,2
Nominal speed laden	rpm	2200
Idling speed slow unladen	rpm	850
Max. speed unladen	rpm	2350
Power ISO/TR 3046	cv - kW	115 - 86
Power SAE J 1995	cv - kW	115 - 86
Maximum torque ISO/TR 3046	Nm	480 to 1500 rpm
Gravimetric efficiency ISO 5011	%	99,9
Type of cooling		By water
Fan		Puller

TRANSMISSION		
Gear box		DANA
Type		Mechanical
Forward/ reverse lever		Electro-hydraulic
Torque converter		SACHS
Number of forward speeds		5
Number of reverse speeds		3
Angle gear box		-
Front axle		DANA
Differential		Without locking
Rear axle		DANA
Differential		Without locking
Drive wheels		4RM Permanent
Switch for 2/4 drive wheels		No
Front tyres		MICHELIN
Size		460/70-R24 XMCL 159A8
Pressure	bar	3,5
Rear tyres		MICHELIN
Size		460/70-R24 XMCL 159A8
Pressure	bar	3,5

ELECTRIC CIRCUIT	
Battery	12 V - 180 Ah - 1000 A EN
Alternator	14 V - 120 A
Type	BOSCH HD 8
Starter	12 V - 3,8 kW
Type	ISKRA

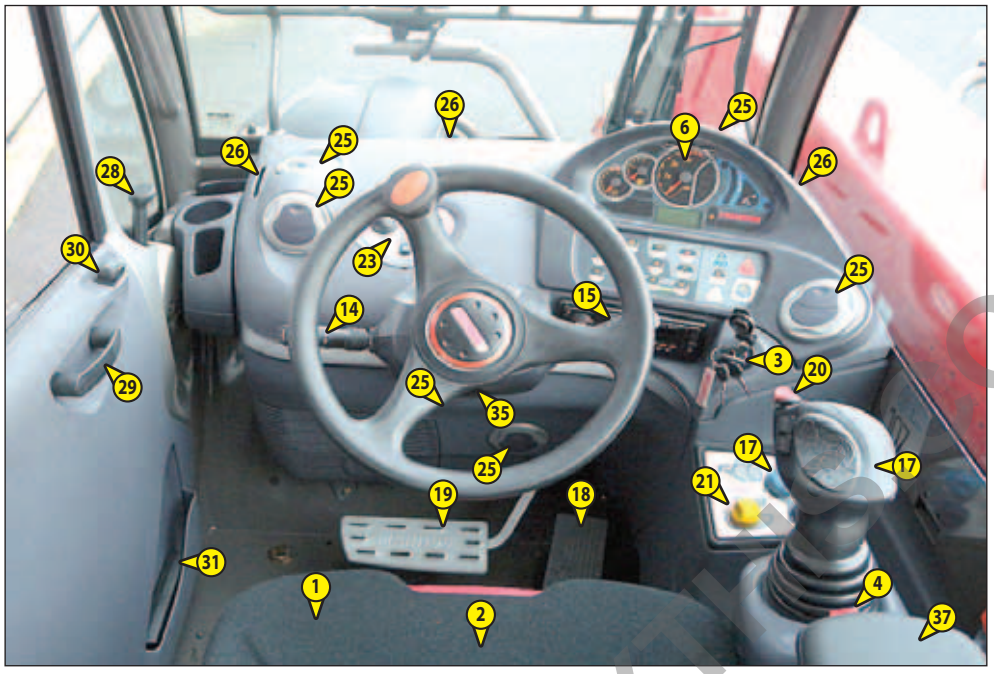
BRAKE CIRCUIT	
Service brake	Hydraulic power brake
Type of brake	Multidisk brake immersed in oil
Type of control	Foot-operated for the front axle
Parking brake	Low pressure brake
Type of brake	Multidisk brake immersed in oil
Type of control	Electro-hydraulic

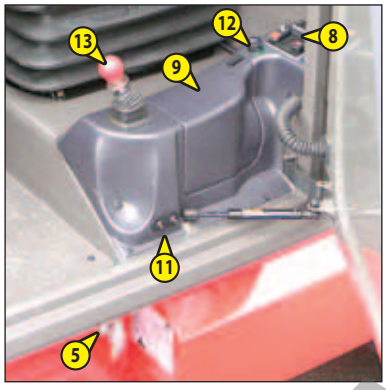
SOUND AND VIBRATION		
Sound pressure level in the driver's cab LpA (according to standard NF EN 12053)	dB(A)	80 (cab closed)
Sound pressure (according to directive2009/76)	dB(A)	(cab closed) (cab open)
Sound pressure level ensured in the LwA environment (according to directive 2000/14/EC modified by directive 2005/88/EC)	dB(A)	105 (measured) 105 (ensured)
Sound level in motion (according to directive 2009/63)	dB(A)	
Average weighted acceleration on driver's body (according to standard NF EN 13059)	m/s2	0,786
The average weighted acceleration transmitted to the driver's hand/arm system (according to standard ISO 5349-2)	m/s2	< 2,5
Seat vibration	m/s2	1,14 (lightweight operator) 0,91 (heavyweight operator)

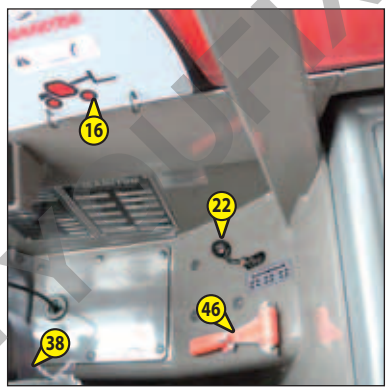
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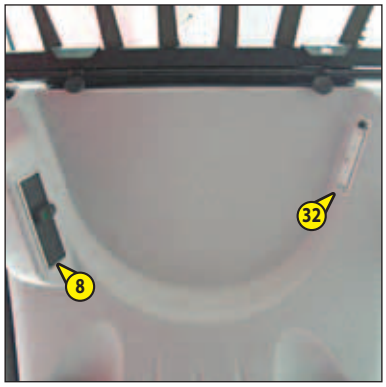
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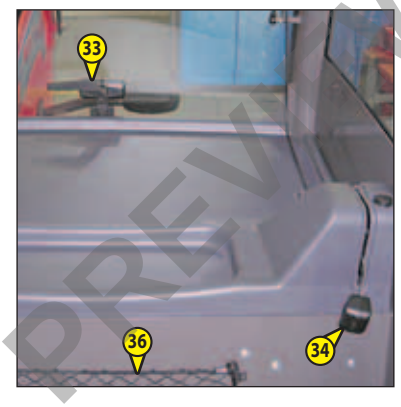
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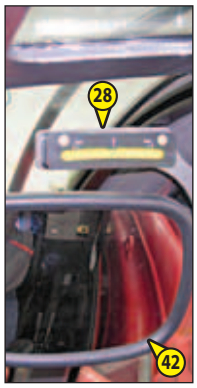










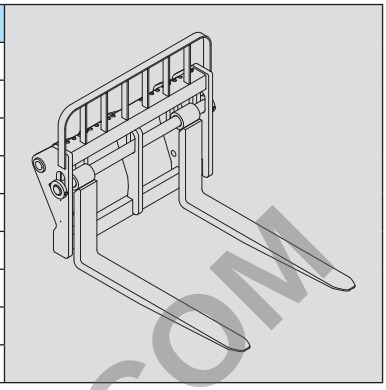


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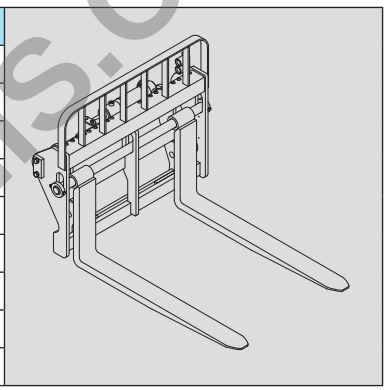
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TECHNICAL SPECIFICATIONS OF ATTACHMENTS

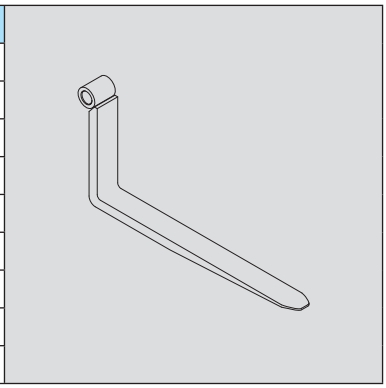
FLOATING FORK CARRIAGE			
	TFF 45 MT 1040	TFF 45 MT 1300	TFF 45 MT 1040 UK
PART NUMBER	**293186**	**293187**	**293188**
Rated capacity	4500 kg	4500 kg	4500 kg
Width	1040 mm	1300 mm	1040 mm
Weight	370 kg	400 kg	350 kg



FLOATING FORK SIDE-SHIFT CARRIAGE			
	TFF 45 MT 1040 DL	TFF 45 MT 1300 DL	TFF 45 MT 1040 DL UK
PART NUMBER	**293194**	**293195**	**293196**
Rated capacity	4500 kg	4500 kg	4500 kg
Side-shift	2x100 mm	2x100 mm	2x100 mm
Width	1040 mm	1300 mm	1040 mm
Weight	410 kg	450 kg	390 kg



FLOATING FORK			
PART NUMBER	211922		
Section	125x50x1200 mm		
Weight	71 kg		



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D - EVERY 500 HOURS SERVICE

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

D1 – ENGINE OIL

DRAIN

D2 – I.C. ENGINE OIL FILTER

CHANGE

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

⚠ IMPORTANT ⚠

Dispose of the drain oil in an ecological manner.

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

DRAINING THE OIL

- Open the engine bonnet.
- Remove access panel 1.
- Place a container under drain plug 2 and unscrew the plug.
- Take drain hose 3.
- Place the end of the drain hose in the container and screw the hose fully to the drain connector 2.
- Remove level and filling plug 4 to ensure that the oil is drained properly.



REPLACEMENT OF THE FILTER

- Unscrew and discard the engine oil filter 5, together with its seal.
- Clean the filter bracket with a clean, lint-free cloth.
- Lightly grease the new seal before refitting the new oil filter (see: 3 - MAINTENANCE: FILTERS AND BELTS) on its bracket.

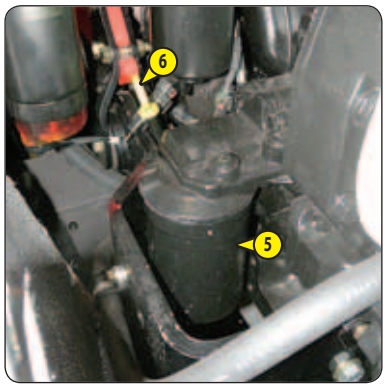
NOTE: Ensure that the notches of the dust seal are correctly fitted in the grooves of the filter holder.



FILLING UP THE OIL

- Remove, clean and refit drain hose 3.
- Replace and tighten the drain plug 2.
- Fill up with oil (see: 3 - MAINTENANCE: LUBRICANTS AND FUEL) through filler port 4.
- Wait a few minutes to allow the oil to flow into the sump.
- Start the engine and let it run for a few minutes.
- Check for possible leaks from the drain plug and the oil filter.
- Stop the engine, wait a few minutes and check the correct level between the two level marks on the dipstick 6.
- Top up the level if necessary.
- Refit access panel 1.







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A = ADJUST, C = CHECK, G = GREASE, N = CLEAN, P = BLEED, R = REPLACE, V = DRAIN	PAGE	(1)	DAILY OR EVERY 10 HOURS OF SERVICE	EVERY 50 HOURS OF SERVICE	EVERY 250 HOURS OF SERVICE	EVERY 500 HOURS OF SERVICE OR 1 YEAR	EVERY 1000 HOURS OF SERVICE OR EVERY YEAR	EVERY 2000 HOURS OF SERVICE OR EVERY TWO YEARS	EVERY 3000 HOURS OF SERVICE OR EVERY TWO YEARS	EVERY 4000 HOURS OF SERVICE	OCCASIONALLY
BRAKE											
- Brake oil level	3-16	C		C							
- Brake oil							V (3)				
- Brake system							P (3)				
- Brake system pressure							C (3)				
- Brake							A (3)				
STEERING											
- Steering								C (3)			
- Steering swivel joints								C (3)			
CAB											
- Windscreen washer liquid level	3-16	C		C							
- Cab ventilation filters	3-17/18	R		N	R						
- Condenser core (OPTION Air conditioning)	3-19	C/N		C/N							
- Seat belt	3-27						C				
- Condition of the rear view mirrors							C (3)				
- Structure							C (3)				
- Air conditioning (OPTION)	3-29							N/C			
ELECTRICITY											
- Condition of wiring harness and cables							C (3)				
- Lights and signals							C (3)				
- Warning indicators							C (3)				
- Front headlights	3-35										A
- Battery failure	3-35										R
FRONT AXLE											
- Front axle differential oil level	3-18				C						
- Front wheels reducers pivots	3-15			G						C (3)	
- Front wheels reducers oil level	3-18				C						
- Front axle differential oil	3-23	V				V					
- Front wheels reducers oil	3-27	V					V				
- Wear of front axle brake discs										C (3)	
- Front wheels reducers universal joint										C (3)	
- Front wheels reducers clearance										C (3)	
REAR AXLE											
- Rear axle oscillation	3-15	G		G				G/C (3)			
- Rear wheels reducers pivots	3-15			G						C (3)	
- Rear axle differential oil level	3-18				C						
- Rear wheels reducers oil level	3-18				C						
- Rear axle differential oil	3-23	V				V					
- Rear wheels reducers oil	3-27	V					V				
- Wearing of rear axle brake discs										C (3)	
- Rear wheels reducers universal joint										C (3)	
- Rear wheels reducers clearance										C (3)	
CHASSIS											
- Structure							C (3)				
- Bearings and articulation rings								C (3)			
ATTACHMENTS											
- Forks wear		C (3)				C (3)					
- Attachment carriage							C (3)				
- Condition of attachments							C (3)				
LIFT TRUCK											
- Tow the lift truck	3-36										XXX
- Sling the lift truck	3-36										XXX
- Transport the lift truck on a platform	3-37										XXX

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CHARACTERISTICS

MLT 840-137 PS

I.C. ENGINE		
Type		JOHN DEERE 4045 PWX 102KW DD10604
Fuel		Diesel
Number of cylinders		4 in line
Suction		Supercharged
Injection system		Direct
Ignition sequence		1.3.4.2
Capacity	cm^3	4500
Bore and stroke	mm	106 x 127
Compression ratio		17,2
Nominal speed laden	rpm	2200
Idling speed slow unladen	rpm	850
Max. speed unladen	rpm	2350
Power ISO/TR 3046	cv - kW	137 - 102
Power SAE J 1995	cv - kW	137 - 102
Maximum torque ISO/TR 3046	Nm	515 to 1800 rpm
Gravimetric efficiency ISO 5011	%	99,9
Type of cooling		By water
Fan		Puller

TRANSMISSION		
Gear box		DANA
Type		Mechanical
Forward/ reverse lever		Electro-hydraulic
Torque converter		SACHS
Number of forward speeds		5
Number of reverse speeds		3
Angle gear box		-
Front axle		DANA
Differential		Without locking
Rear axle		DANA
Differential		Without locking
Drive wheels		4RM Permanent
Switch for 2/4 drive wheels		No
Front tyres		MICHELIN
Size		460/70-R24 XMCL 159A8
Pressure	bar	3,5
Rear tyres		MICHELIN
Size		460/70-R24 XMCL 159A8
Pressure	bar	3,5

ELECTRIC CIRCUIT	
Battery	12 V - 180 Ah - 1000 A EN
Alternator	14 V - 120 A
Type	BOSCH HD 8
Starter	12 V - 3,8 kW
Type	ISKRA

BRAKE CIRCUIT	
Service brake	Hydraulic power brake
Type of brake	Multidisk brake immersed in oil
Type of control	Foot-operated for the front axle
Parking brake	Low pressure brake
Type of brake	Multidisk brake immersed in oil
Type of control	Electro-hydraulic

SOUND AND VIBRATION		
Sound pressure level in the driver's cab LpA (according to standard NF EN 12053)	dB(A)	80 (cab closed)
Sound pressure (according to directive2009/76)	dB(A)	(cab closed) (cab open)
Sound pressure level ensured in the LwA environment (according to directive 2000/14/EC modified by directive 2005/88/EC)	dB(A)	105 (measured) 105 (ensured)
Sound level in motion (according to directive 2009/63)	dB(A)	
Average weighted acceleration on driver's body (according to standard NF EN 13059)	m/s2	0,786
The average weighted acceleration transmitted to the driver's hand/arm system (according to standard ISO 5349-2)	m/s2	< 2,5
Seat vibration	m/s2	1,14 (lightweight operator) 0,91 (heavyweight operator)

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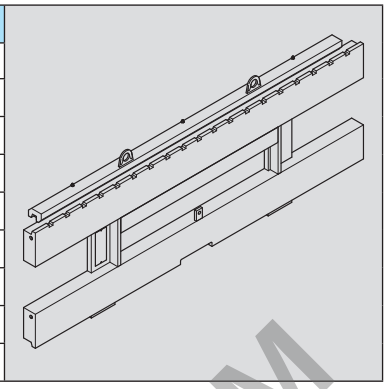
1 - DRIVER'S SEAT
2 - SAFETY BELT
3 - IGNITION SWITCH
4 - EMERGENCY STOP BUTTON
5 - BATTERY CUT-OFF
6 - MAN-MACHINE INTERFACE (MMI)
8 - SWITCHES
9 - FUSES AND RELAYS IN THE CAB
10 - FUSES AND RELAYS UNDER THE ENGINE HOOD
11 - DOOR PRESENCE SENSORS
12 - LIGHTER
13 - EMERGENCY BRAKE LEVER
14 - SWITCH FOR LIGHTING, HORN AND INDICATORS
15 - FRONT AND REAR WINDSCREEN WIPER SWITCH
16 - FUNCTION FILES
17 - HYDRAULIC CONTROLS
18 - ACCELERATOR PEDAL
19 - SERVICE BRAKE PEDAL
20 - FORWARD/NEUTRAL/REVERSE GEAR SELECTION
21 - GEAR SELECTOR
22 - STEERING SELECTION
23 - HEATER CONTROL
24 - AIR CONDITIONING CONTROLS (AIR CONDITIONING OPTION)
25 - HEATING VENTS
26 - DEMIST VENTS
27 - LEVEL INDICATOR
28 - DOOR OPEN LEVER
29 - DOOR CLOSE HANDLE
30 - WINDOW REGULATOR SWITCH
31 - SIDE STORAGE SPACE
32 - OVERHEAD LIGHT
33 - HANDLE FOR REAR WINDOW OPENING
34 - HANDLE FOR REAR WINDOW CLOSING
35 - STEERING WHEEL ADJUSTMENT LEVER
36 - DOCUMENT HOLDER NET
37 - ARMREST AND STORAGE
38 - ARMREST ADJUSTMENT (NOT ILLUSTRATED)
39 - FRONT LIGHTS (NOT ILLUSTRATED)
40 - REAR LIGHTS (NOT ILLUSTRATED)
41 - FLASHING LIGHT (NOT ILLUSTRATED)
42 - INSIDE REAR-VIEW MIRROR
43 - JIB SAFETY WEDGE (NOT ILLUSTRATED)
44 - REAR-VIEW MIRROR (NOT ILLUSTRATED)
45 - NUMBER PLATE LIGHTING (NOT ILLUSTRATED)
46 - NUMBER PLATE (NOT ILLUSTRATED)
47 - EMERGENCY EXIT

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.

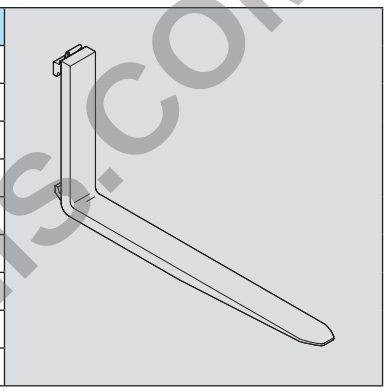
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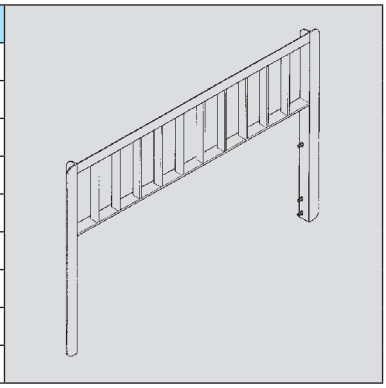
STANDARDISED SIDE-SHIFT CARRIAGE			
	PFB 45N MT1260	PFB 45N MT1670	PFB 45N MT2000
PART NUMBER	**654407**	**653747**	**653748**
Rated capacity	4500 kg	4500 kg	4500 kg
Width	1260 mm	1670 mm	2000 mm
Weight	200 kg	255 kg	300 kg



STANDARDISED FORK			
PART NUMBER	415652		
Section	125x50x1200 mm		
Weight	78 kg		



LOAD BACK REST			
PART NUMBER	727035	572788	572790
Width	1260 mm	1670 mm	2000 mm
Weight	46 kg	56 kg	63 kg



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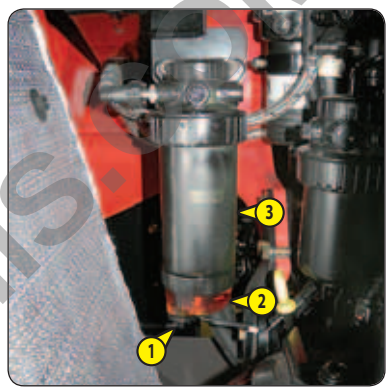
D3 – ENGINE CRANKCASE VENTILATION SYSTEM



CHECK

- Visually check the condition of the ventilation filter hoses 1 (cracks, wear, deformation etc...) and replace if necessary. Also check the tightness of the hose clips.

D4 – FUEL PRE-FILTER



CHANGE

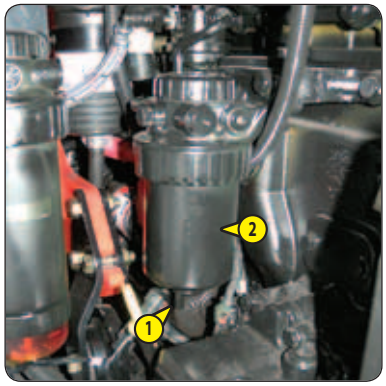
⚠ IMPORTANT ⚠

Carefully clean the outside of the pre-filter and its holder, to prevent dust from getting into the system.

Make sure the electrical contact on the lift truck is cut, otherwise fuel will be released if the lift pump is on.

- Open the engine bonnet.
- Carefully clean the outside of the filter and its holder, to prevent dust from getting into the system.
- Place a receptacle under the pre-filter and empty using drain plug 1.
- Remove container 2 and discard cartridge 3 as well as its seals.
- Clean the inside of the filter head and the housing, using a brush immersed in clean diesel oil.
- Lightly lubricate the new seals with clean engine oil and refit the assembly with a new cartridge (see: 3 - MAINTENANCE: FILTERS AND BELTS).
- Retighten tank 2 (tightening torque 14 N.m).

D5 – FUEL FILTER



CHANGE

⚠ IMPORTANT ⚠

Carefully clean the outside of the pre-filter and its holder, to prevent dust from getting into the system.

Make sure the electrical contact on the lift truck is cut, otherwise fuel will be released if the lift pump is on.

- Open the engine bonnet.
- Carefully clean the outside of the filter and its holder, to prevent dust from getting into the system.
- Place a receptacle under the filter and empty using drain plug 1.
- Loosen the filter 2 and discard it as well as its seals.
- Clean the inside of the filter head using a brush immersed in clean diesel oil.
- Lightly lubricate the new seals with clean engine oil and refit the assembly with a new filter (see: 3 - MAINTENANCE: FILTERS AND BELTS).
- Retighten the filter on its support (tightening torque 10 N.m).
- Before starting the I.C. engine, leave the ignition on for one minute on the lift truck, to give the lift pump time to release air from the filter.
- Start up the I.C. engine and make sure there is no leakage.

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C - MODIFICATION OF THE LIFT TRUCK . . . 5
D - FRENCH ROAD TRAFFIC RULES . . . 5
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IMPORTANT

Carefully read and understand this instruction manual before using the lift truck.

It contains all information relating to operation, handling and lift truck equipment, as well as important recommendations to be followed.

This document also contains precautions for use, as well as information on the servicing and routine maintenance required to ensure the lift truck's continued safety of use and reliability.

WHENEVER YOU SEE THIS SYMBOL IT MEANS:

⚠ IMPORTANT ⚠

WARNING ! BE CAREFUL ! YOUR SAFETY OR THE SAFETY OF THE LIFT TRUCK IS AT RISK.

- This manual has been produced on the basis of the equipment list and the technical characteristics given at the time of its design.
- The level of equipment of the lift truck depends on the options chosen and the country of sale.
- According to the lift truck options and the date of sale, certain items of equipment/functions described herein may not be available.
- Descriptions and figures are non binding.
- MANITOU reserves the right to change its models and their equipment without being required to update this manual.
- The MANITOU network, consisting exclusively of qualified professionals, is at your disposal to answer all your questions.
- This manual is an integral part of the lift truck.
- It is to be kept in its storage space at all times for ease of reference.
- Hand this manual to the new owner if the lift truck is resold.

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