# MARK 55<sup>TM</sup> PUSH/PULLS

ORIGINAL INSTRUCTIONS

# INTRODUCTION

This manual includes instructions for assembly, maintenance (regular and extraordinary), and for possible faults with remedies.

The instructions provided in this manual do not replace but complement obligations for compliance with existing legislation on safety and accident prevention, which are the obligation of the User. The User is also bound to follow all instructions in this manual including training of personnel both in the use of the equipment and its maintenance.

# SPECIFICATIONS AND USE OF EQUIPMENT

Equipment to be hooked to the forklift to handle loads either on pallets or placed on a pressed sheet of cardboard or plastic. It consists of a rear frame to be mounted on the forklift carriage with ISO 2328 profile; load supporting platforms, internal fixed and external can be positioned manually or hydraulically; clamp controlled by hydraulic linear actuator to grip the sheet; front grid with ample visibility to optimize the grip of the sheet; pantograph controlled by hydraulic linear actuators to pull the load onto platforms attached to the rear frame.

# **SYMBOLS USED**



Hazardous situation for operator safety.



Mandatory procedures to be carried out.



Notes to be read carefully.

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# 1. TIPS FOR USE OF THE EQUIPMENT

### 1.1. PROHIBITED HANDLING

Transporting a load that is unstable, off-center or on one fork only, too bulky reducing visibility, with weight greater than the specified capacity, moving a load already deposited using the load to be deposited, using the equipment for purposes other than those specified, or when the same has deformed structure or operating anomalies.

Proceeding at high speed in the presence of uneven ground or ramps.

Performing movements or maneuvers with the load lifted high.

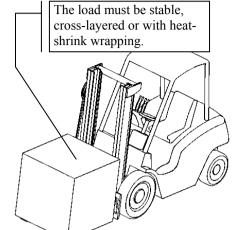
Performing lifting-lowering movements, tilting or lateral displacement of the load with the forklift moving.

Transporting people with the forklift or the equipment or performing maneuvers with people in the operating range.

Parking the forklift with the engine running and/or load lifted on uneven ground or ramps.

### 1.2. CORRECT HANDLING

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When moving with the forklift, keep the mast tilted (the tip of the fork up), the load slightly off the ground and centered on the forklift, adjusting the speed according to the state of the road surface and any obstacles or presence of people along the route

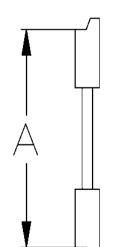
# . FORKLIFT CONTROLS

The forklift's hydraulic pump must have a min. capacity of 7 GPM and a max. of 8 GPM and max. pressure of 2000 PSI.

The recommended inner diameter for any additional supply system is at least 8 mm.

4-lever distributor for movements control.

The slots for positioning the forks must be intact and unobstructed.



The forks carriage must be flat without protrusions on the front.

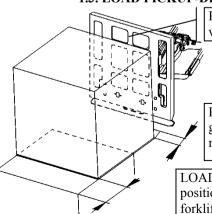
Dimension « A » ISO 2228 (mm) : Class I = min. 304 – max. 305

Class II = min. 380 - max. 381

Class III =  $\min$ .  $474.5 - \max$ . 476

Class IV =  $\min. 595,5 - \max. 597$ 

# 1.3. LOAD PICKUP-DEPOSIT



Position the grid parallel and central to the load with the mast tilted forward.

The dimensions of the sheet (or pallet) must be equal to the size of the load with a minimum projection of 80 mm for pick-up.

PULLING THE LOAD ON THE PLATFORMS: With the grid in contact with the load, operate the return lever, and move forward with the forklift truck at the same time.

LOAD DEPOSIT Stop about 20 cm away from the deposit position and operate the extension lever backing up the forklift at the same time.

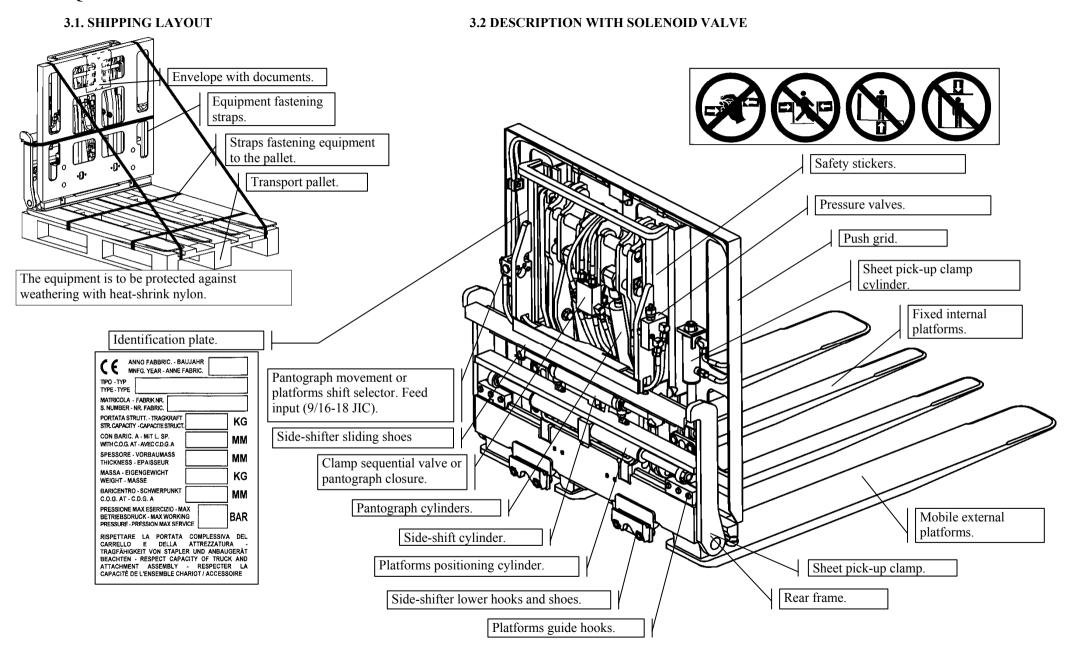
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USE OF THE EQUIPMENT FOR PURPOSES OR HANDLING OTHER THAN INDICATED IS PROHIBITED.

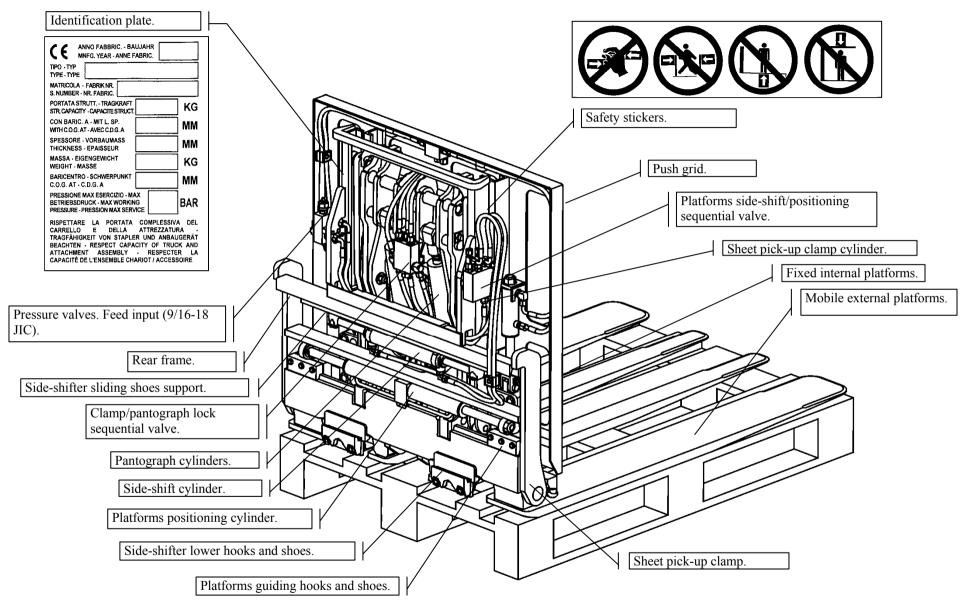
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THE ACTUAL COMBINED CARRYING CAPACITY OF THE FORKLIFT AND EQUIPMENT IS THE RESPONSIBILITY OF THE FORKLIFT MANUFACTURER AND MAY NOT CORRESPOND TO THAT INDICATED ON THE RATING PLATE. CONTACT THE MANUFACTURER OF THE FORKLIFT TRUCK FOR THE DEFINITIVE CARRYING CAPACITY.

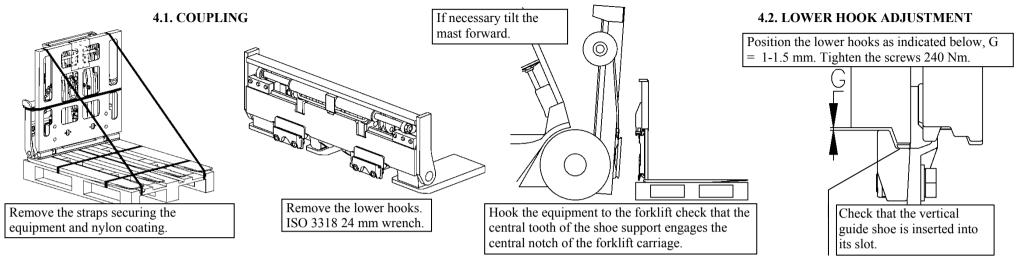
# 3. EQUIPMENT DESCRIPTION



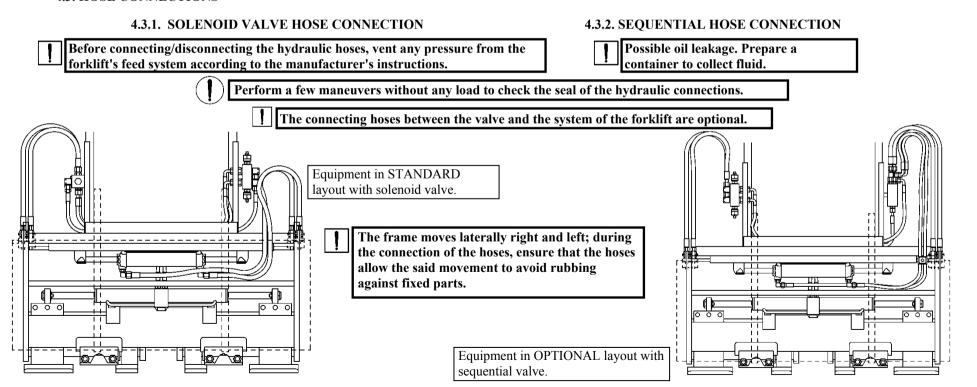
3.3. DESCRIPTION WITH SEQUENTIAL VALVE



# 4. COUPLING TO THE FORKLIFT



### 4.3. HOSE CONNECTIONS



# 5. HYDRAULIC SYSTEM CONNECTION AND LAYOUT

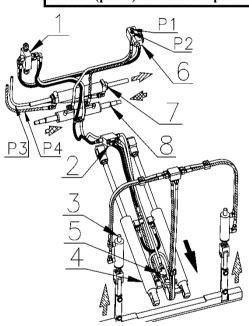
Before connecting/disconnecting the hydraulic hoses, vent any pressure from the forklift's feed system according to the manufacturer's instructions.

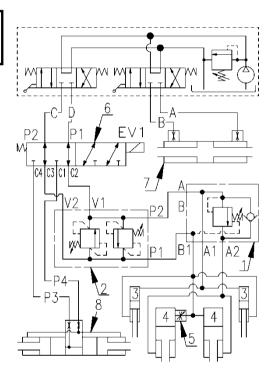


Possible oil leak. Prepare a container to collect fluid.

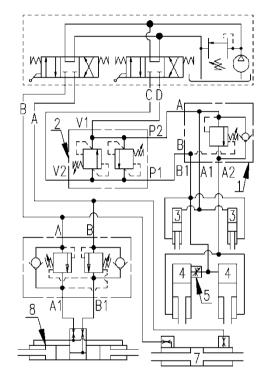
# 5.1. WITH SOLENOID VALVE

# Choose between pantograph and platforms positioning with the selector (pos. 6) at the feed input.

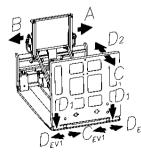




**5.2. WITH SEQUENTIAL VALVE** 

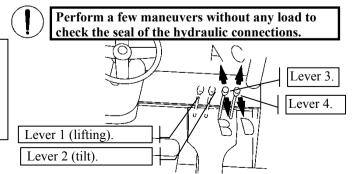


# 5.1.1. MOVEMENT CONTROL



Pantograph sequence: Sheet tightening (D1), Grid reentry (D2).

With energized solenoid valve: Spacing of platforms (D), narrowing of platforms (C).



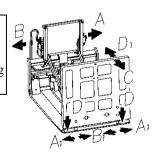
# **5.2.1. MOVEMENT CONTROL**

Side-shift sequence:

Left side-shift (A), Spacing of platforms (A1).

Right side-shift (B), Closing of platforms (B1).

Pantograph sequence: Sheet tightening (D1), Grid re-entry (D2).



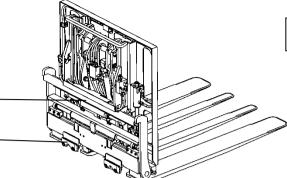
# 6. DAILY CONTROLS



At the beginning of shifts check the points indicated and report any problem to maintenance personnel.

The center retainer of the cylinder support must engage the central notch of the forklift's fork carriage.

The lower hooks correctly positioned and locked, see point 4.2. LOWER HOOK ADJUSTMENT



Inspection for any leaks from the cylinders or hydraulic system

Verifying the integrity and cleanliness of the sheet clamp, blade and shoe, and the platforms.

Respect the direction as indicated by the sticker during the assembly or tightening of the washers "h".

# 7. ROUTINE MAINTENANCE

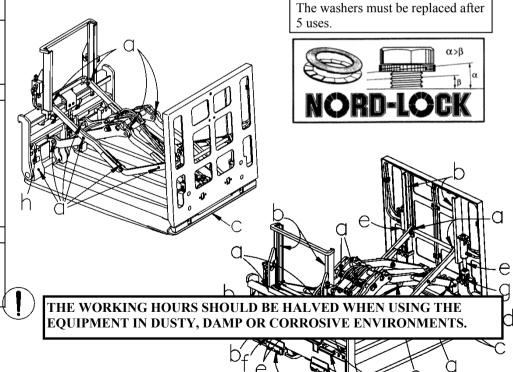
PERIODIC MAINTENANCE SCHEDULE	
OPERATIONS	Working hours
Lubrication in point "a".	
Cleaning and lubrication in points "b".	500
Control of bolts tightness and hydraulic connections.	300
Check of platforms alignment.	
In addition to the operations every 500 working hours, carry out:	
Control of the platform and blade in pos."c". Remove any deformations or	
dents.	
Check the condition of the sheet contact shoe "d". Replace in case of wear	
greater than 4 mm.	1000
Check the cylinder stems "e" and hydraulic seals.	1000
Check the condition of the side-shift shoes (f) and sheet clamp guide (g).	
Check of the condition of bushings and scrapers for outer platforms sliding.	
Control the condition of the mobile hoses.	
In addition to the operations every 500 and 1000 working hours, carry	out:
Replacement of shoes for side-shift (f).	
Control of the bushings and ball joints in the fulcrum of the arms.	2000
Replacement of platforms sliding shoes (h).	∠000
Examination for deformation or break in the structure or welds.	

Position "a" grease nipple UNI 7763-AM6-5.8

Recommended lubricant:

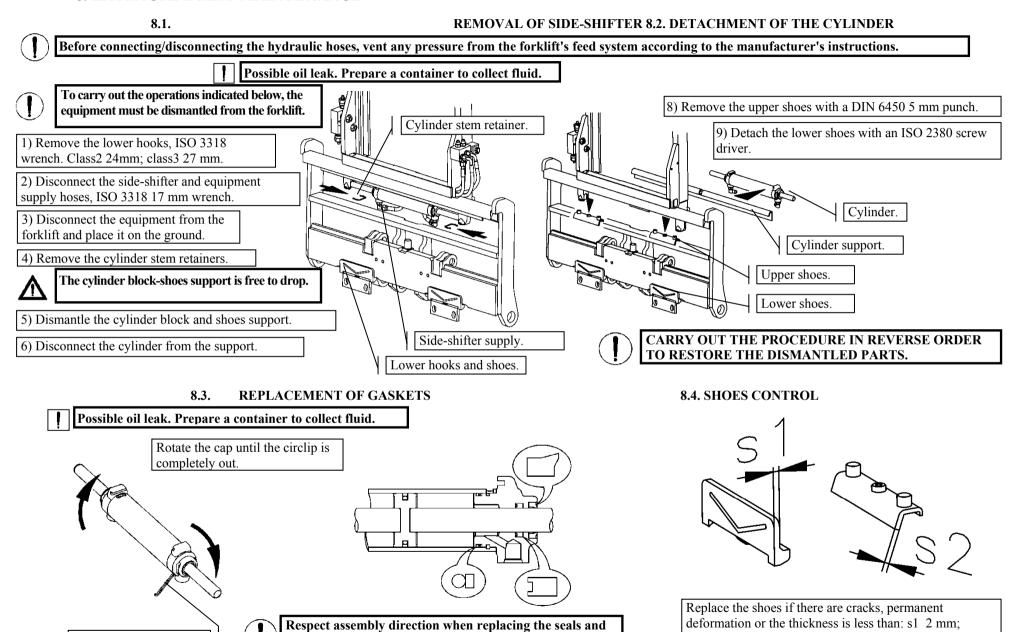
Internal use: ISO X M2 (SHELL ALVANIA GREASE R2).

External use: ISO CB 32 (ESSO NUTO32).



# 8. EXTRAORDINARY MAINTENANCE

Cap circlip



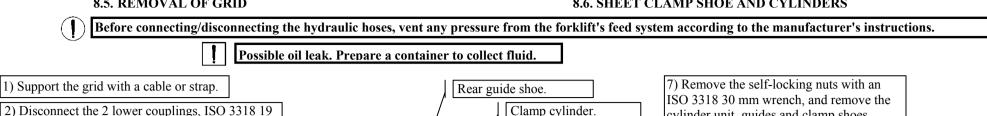
s2 3 mm.

UM-PPK55-02-2010-R1

work in a dust-free environment.

### 8.5. REMOVAL OF GRID

### 8.6. SHEET CLAMP SHOE AND CYLINDERS



mm wrench, from the branch block. 3) Remove the hoses fixing bracket, ISO

2936 5 mm, ISO 3318 10 mm wrench.

4) Remove the 8 screws, ISO 3318 19 mm wrench.



At this stage the contact shoe is not guided and can fluctuate.

- 5) Lift until the rollers are completely detached from the guide and move forward.
- 6) Position the grid on the ground or on a work bench as illustrated.

Hydraulic branch block.

Hoses fastening brackets.

Clamp cylinder. Cylinder fork with pin retainer. Clamp blade guide. Front guide shoe.

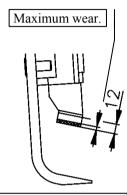
Sheet clamp shoe with support.

Grid fastening screws.

cylinder unit, guides and clamp shoes.

- 8) Use an ISO 3318 10 mm wrench to disconnect the cylinder fork from the guide; remove the pin retainer and extract the pin.
- 9) Use a DIN 6450 5 mm punch to disconnect the sheet clamping blade.
  - 10) Use an ISO 2936 5 mm wrench to disconnect the sheet clamp shoe from the support.

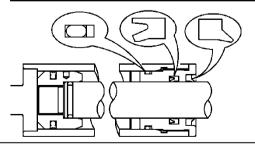
CARRY OUT THE PROCEDURE IN REVERSE ORDER



Replace shoes with max, wear of 4 mm.

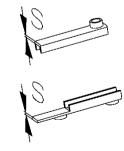
# 8.7. REPLACEMENT OF SEALS

Respect assembly direction when replacing the seals and work in a dust-free environment.



Pin wrench DIN 1810 for diameters 45-50 mm

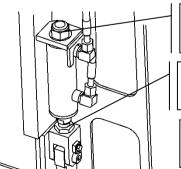
### 8.8. SHOES CONTROL



Replace the shoes if there are cracks, permanent deformation or the thickness is less than 3.5 mm

# 8.9. CYLINDER ASSEMBLY AND SHEET CLAMP ADJUSTMENT

TO RESTORE THE DISMANTLED PARTS.



FASTENING OF CYLINDER. Tighten the nut until the washer is completely squashed; loosen by 180°.

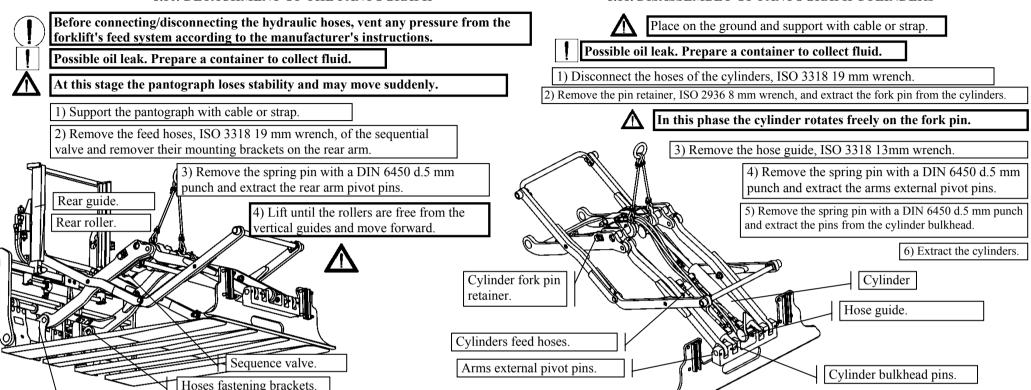
CLAMP ADJUSTMENT. Loosen the locking nut, ISO 3318 30 mm wrench. Turn the stem, ISO 3318 22 mm wrench.

The cylinder length is increased by turning counter-clockwise and decreases by turning clockwise.

With adjustment complete, tighten the locking nut at 90 Nm.

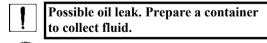
8.10. DETACHMENT OF THE PANTOGRAPH

### 8.11. DISASSEMBLY OF PANTOGRAPH CYLINDERS



CARRY OUT THE PROCEDURE IN REVERSE ORDER TO RESTORE THE DISMANTLED PARTS.

### 8.12. GASKET REPLACEMENT AND CYLINDER ADJUSTMENT

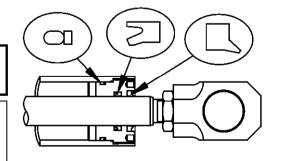


Rear arm pivot pin.

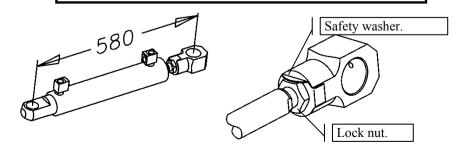
Follow assembly order when replacing the gaskets and work in a dust-free environment.

### WRENCHES TO USE:

3318 22-mm Allen wrench
3318 30-mm Allen wrench
Fork wrench for diameters of 14 to 100 mm.
ISO 2380 screwdriver to release the fork
lock nut.



With the replacement of the gasket complete, restore the dimensions of the closed cylinder, tighten the lock nut (570 Nm) deforming the washer with an ISO 2380 screwdriver.



8.13. ARMS DISASSEMBLY



At this stage the pantograph is not stable and may move suddenly.



Washers of different thickness have been inserted around the pivot points of the arms to limit lateral movement. Their number, quantity and thickness should not be changed in the assembly after maintenance.

- 1) Position the arms resting on the right side, see diagram.
- 2) Disconnect the hoses of the valve, ISO 3318 19 mm wrench.
- 3) Remover the rollers and guide shoes of the external arms.
- 4) Disconnect the valve, ISO 2936 6 mm wrench.
- 5) Remove the rear spacer and the front spacer fixing screws from the external arms, ISO 3318 17 mm wrench.
- 1

Unscrew front and rear spacer screws of the arms with an ISO 2380 screwdriver.



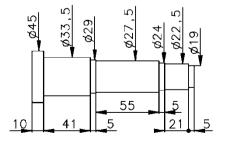
Proceed with the dismantling of the left side.

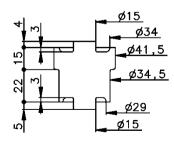
- 6) To remove the front external arm: remove the screw and pin retainer, ISO 3318 10 mm wrench, and extract the pin from the coupling with the rear external arm, remove the central nut and washer, ISO 3318 22 mm wrench, and extract the arms until completely released.
- 7) To remove the rear external arm: remove the central nut and washer, ISO 3318 22 mm wrench, and extract the arm until completely released.
- 8) To remove the front internal arm: remove the spring pin, DIN 6450 5 mm punch, and extract the pin.



Repeat steps 6), 7) and 8) to dismantle the right arms.

### 8.15. BUSHINGS AND BALL JOINTS PADS





REF. 10PPDED145

REF. 10PPDED144

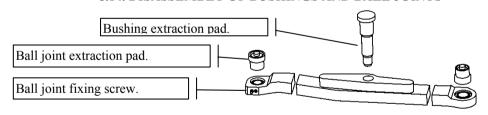
USABLE FOR ALL THE BUSHINGS AND BALL JOINTS

8.16. TIGHTENING OF FRONT AND REAR SPACER SCREWS

# Pin with spring pin. Pin with retainer. Rear external arm. Rear internal arm. Front external arm. Front internal arm. Front spacer. Front spacer. Front spacer. Rear spacer. Rear spacer.

### 8.14. DISASSEMBLY OF BUSHINGS AND BALL JOINTS

Roller and guide shoes.



### REPLACEMENT OF BALL JOINTS:

Remove the ball joint fixing screw, ISO 3926 3 mm wrench, and remove the worn ball joint with pad 10PPDED144. Introduce and position the new part at the centre of the spacer. Tighten the screw in contact with the outer ring without forcing; use LOCTITE 243.

REPLACEMENT OF THE BUSHINGS: Remove and replace the bushing with pad 10PPDED145.



Control and eventual replacement of guide rollers, bushings and lateral sliding shoes in the presence of wear, breakage or permanent deformation.

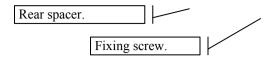


CARRY OUT THE ABOVE PROCEDURE IN REVERSE ORDER TO RESTORE THE DISMANTLED PARTS.

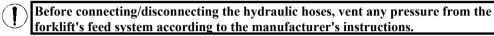


Deformable washer.

Tighten with an ISO 3318 17 mm wrench (46 Nm) and tighten the screws deforming the washers with an ISO 2380 screwdriver.



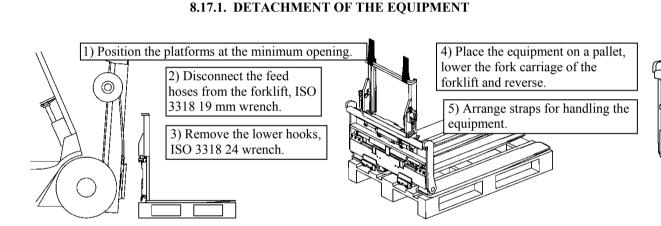
### 8.17. DISASSEMBLY OF PLATFORMS CYLINDER

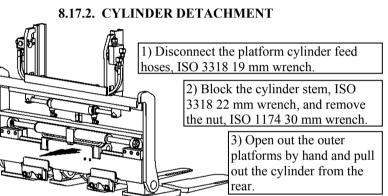


Possible oil leak. Prepare a container to collect fluid.

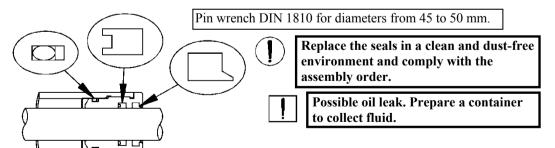


The equipment must be disconnected from the forklift in order to proceed with maintenance.

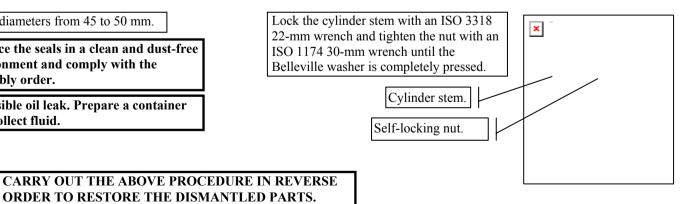




### 8.17.3. REPLACEMENT OF SEALS



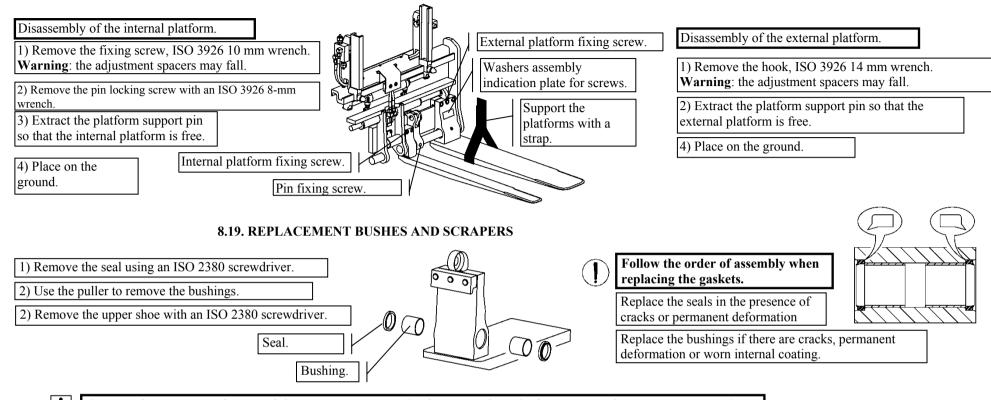
# 8.17.4. CYLINDER ASSEMBLY



8.18. DISASSEMBLY OF PLATFORMS

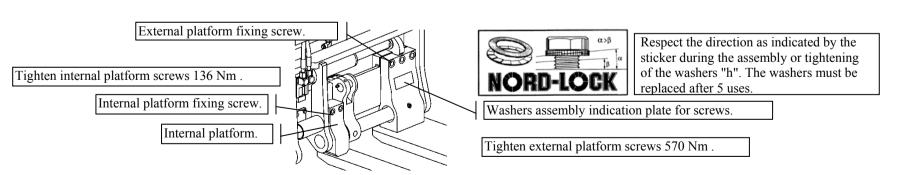
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During this phase the platforms without screws or pins may swing or drop off.

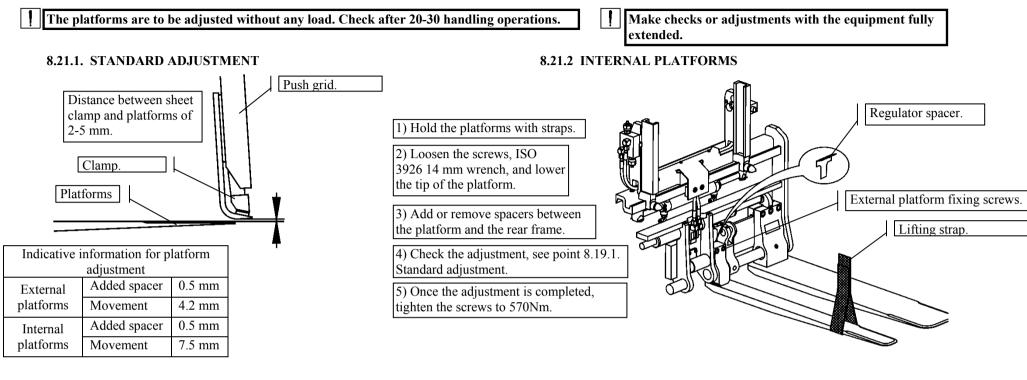


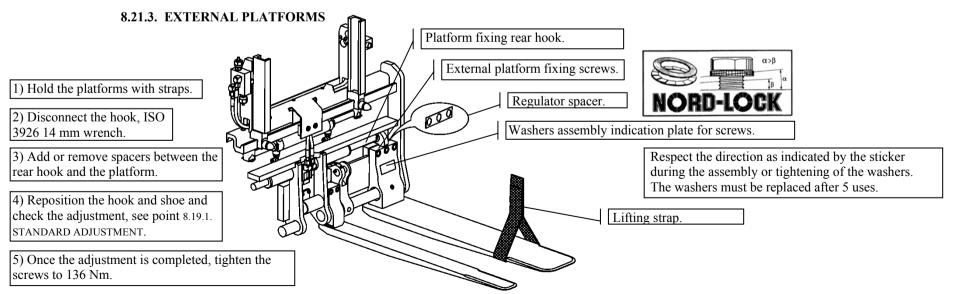
CARRY OUT THE ABOVE PROCEDURE IN REVERSE ORDER TO RESTORE THE DISMANTLED PARTS.

### 8.20. TIGHTENING OF PLATFORM SCREWS



## 8.21. PLATFORMS ADJUSTMENT





### 8.22. ELIMINATION OF SIDE-SHIFTER

The equipment must be disconnected from the forklift in order to proceed with maintenance.

1) Disconnect the 4 forklift feed hoses, ISO 3318 17 mm wrench.

2) Remove the lower hooks, ISO 3318 class2 24 mm, class3 27 mm wrench.

3) Use the appropriate strap to lift the equipment (see point 8.16.1. DETACHMENT OF THE EQUIPMENT)

4) Remove the cylinder stems retainers.



In this phase the cylinder block and shoes support are free to drop.

5) Disconnect the cylinder feed hoses, ISO3318 17 mm wrench.

6) Dismantle the cylinder support block and upper shoes.

7) Attach the spacer to the ISO 2328 carriage of the forklift with the central tooth inserted into the notch at the centre of the carriage.

8) Attach equipment to the spacer, making sure that the lateral retainers of the spacer are inside the side-shifter cylinder thrust dowels.

9) Reposition the lower hooks and make adjustments as per point 4.2

HOOKS ADJUSTMENT.

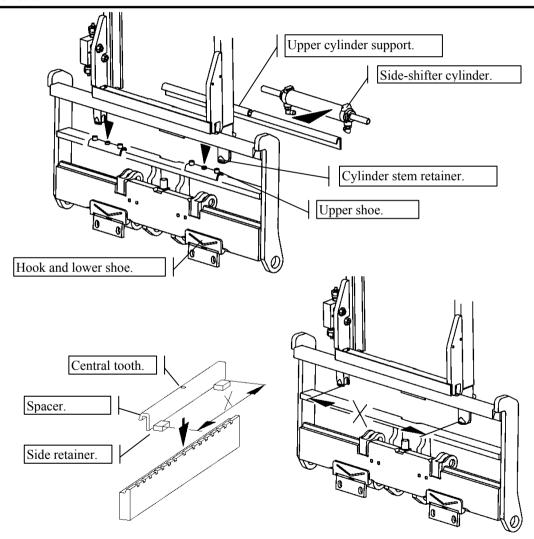
10) Connect the hoses to the forklift's system.



To check the connections, perform 5 complete movements, with and without the load.

Possible leakage of oil from pipelines. Prepare a container to collect fluid.

Before disconnecting the hydraulic hoses, follow the manufacturer's instructions to remove the pressure in the forklift's circuit.



# 9. LIST OF POSSIBLE FAULTS WITH CAUSES AND REMEDIES 1 SIDE SHIETER AND PLATFORMS UNIT

# 9.1. SIDE-SHIFTER AND PLATFORMS UNIT

platforms do not shift to the side	Insufficient oil pressure and/or flow rate.	Check and/or adjust the forklift's hydraulic pump
and/or move	Sliding tracks dirty or distorted	Clean, remove distortion and grease
	Malfunction of solenoid valve EV1(only for platforms movement)	Check electric contacts, magnet and mechanical movements
	Malfunction of sequential valve between side-shifter and platforms.	Check or clean the sequential valve
	Hydraulic circuit blocked or broken.	Eliminate obstruction or replace damaged hose.
	Defective cylinders	Check or replace gaskets and stem guides or cylinders
	Pads and/or sliding tracks not greased	Clean and grease
Slow or irregular platform side-	Insufficient oil pressure and/or flow rate.	Check and/or adjust the forklift's hydraulic pump
shifting and/or movement	Sliding tracks dirty or distorted	Clean, remove distortion and grease
	Defective cylinders	Check or replace gaskets and stem guides or cylinders
	Residual air in the hydraulic circuit.	Check oil level in the forklift's tank; vent any residual air

# 9.2. PANTOGRAPH UNIT

Do not extend and/or return the front grid	Insufficient oil pressure and/or flow rate.	Control and/or regulation of the forklift's hydraulic pump.
	Malfunction of the pressure relief valve	Adjustment of the valve setting
	Malfunction of solenoid valve EV1	Check electric contacts, magnet and mechanical movements
	Sliding tracks dirty or obstructed	Clean, eliminate the obstruction and grease.
	Hydraulic circuit blocked or broken.	Eliminate obstruction or replace damaged hose.
	Faulty cylinders	Control or replacement of the seals and of the cylinders or stem guides
The extension and/or the return	Insufficient oil pressure and/or flow rate.	Control and/or regulation of the forklift's hydraulic pump.
of the front grid occurs	Sliding tracks dirty or obstructed	Clean, eliminate the obstruction and grease.
slowly and/or irregularly	Faulty cylinders	Control or replacement of the seals and of the cylinders' stem guides
	Cylinder flow control valve not adjusted correctly	In order to optimize the speed, screw or unscrew the adjuster. Lock after making the
		adjustment.
	Residual air in the hydraulic circuit.	Check oil level in the forklift's tank; Bleed the residual air in the hydraulic circuit.

# 9.3. GRID UNIT WITH SHEET CLAMP

Does not clamp the load supporting sheet (or pallet)	Sheet (or pallet) incorrectly inserted in the clamp	Check the load overhang and sheet straightness
	Insufficient oil pressure and/or flow rate.	Check and/or adjust the forklift's hydraulic pump.
	Sliding tracks dirty or obstructed.	Clean, eliminate the obstruction and grease.
	Hydraulic circuit blocked or broken.	Eliminate obstruction or replace damaged hose.
	Defective cylinders	Check or replace the seals and the stem guides of the cylinders
The clamp does not perform the	Insufficient oil pressure and/or flow rate.	Check and/or adjust the forklift's hydraulic pump
sequence of movements	Sequence valve malfunction	Adjustment of the valve setting
and/or does not hold the sheet	Faulty cylinders	Check or replace the gaskets and the stem guides of the cylinders
during the return of the grid	Clamp shoe dirty or worn	Clean the surface of the shoe. Replace if worn

# IN CASE OF PROBLEMS OTHER THAN THOSE DESCRIBED ABOVE, PLEASE CONTACT OUR SERVICING DEPT.

# 10. NOISE EMISSION

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# THE FOLLOWING SPECIFICATIONS APPLY TO THE FORKLIFT-EQUIPMENT UNIT.

- Sound pressure level of the weighted emission A in the workplace, where this exceeds 70 dB (A); if said level does not exceed 70 dB (A), it must be indicated.
- -Maximum weighted instantaneous sound pressure C in the workplace, where this exceeds 63 Pa (130 dB relative to 20  $\mu$ Pa).
- Weighted sound power level A emitted by the machine, if the sound pressure level of the weighted emission A in workplaces exceeds 80 dB (A).

# 11. RECYCLING

Replaced parts should be disposed of, as in the case of complete destruction, separately depending on the nature of the material and in compliance with the requirements of the law on the disposal of solid industrial waste.

NB: The pieces not mentioned in the table are made of steel.

Transport pallet	Wood
Retaining straps and covering	Polyethylene and heat
for shipment	shrink
Side-shifter and grid shoes	Nylon
Hoses / connectors	Nylon / steel
Bushings	Bronze / Teflon
Cylinder caps	Cast iron
Cylinder gaskets	Polyurethane and NBR
Paint	Epoxy polyester
Hydraulic oil	Dispose of in
	compliance with local
	regulations
Hose fastenings	Nylon

# 12. WARRANTY

The manufacturer guarantees all its products for 12 months or 2000 working hours (whichever occurs first) from the date of shipment.

If used more than 8 hours per day the warranty period shall be reduced proportionately.

The warranty is limited to the replacement, ex-factory of the manufacturer, of those parts identified as being defective due to defects in materials or workmanship;

it does not include the cost of labor or travelling expenses for the replacement of such parts.

It is further understood that recognition of the warranty is void if the anomaly results from the inappropriate use of the product, if the implementation was not

carried out according to the manufacturer's specifications or if non-original parts have been used for modifications or replacement.

The equipment is not guaranteed for uses that exceed the performance indicated on the rating plate and in the documentation.

All equipment is covered by insurance for any damage caused to third parties by defective parts or their malfunction; damage caused by improper use or misuse is not included.

# 13. FACSIMILE OF THE EC CONFORMITY CERTIFICATE

	Dichiarazione CE di Conformità	
Noi	NOME COSTRUTTORE	
	INDIRIZZO COSTRUTTORE	
	XXXXXXXXXXXXXX	
Dichiariamo sotto la nostr	a esclusiva responsabilità che il prodotto:	
Tipo	YYYYYYYYYYYYYY	
Marca	xxxxxxxxxxx	
Modello	www.	
Matricola	3333333333	
Anno di fabbricazione	vvvv	
è conforme alle disposizio e alle disposizioni della	ni della Direttiva Macchine 2006/42/CE norma EN 1726-2	
Persona autorizzata a cost	ituire il fascicolo tecnico	
None	Pietro	
Cognome	Foroni	
Posizione	Direttore Ufficio Tecnico	
Indirizzo	29027 Casoni di Podenzano - Piacenza (Italy	
Persona autorizzata a redi	gere la dichiarazione	
Nome	Claudio	
Cognome	Carnieletto	
Posizione	Direttore Assicurations Qualità e Post Vendita	
Piacenza, 10 dicembre 20	009	