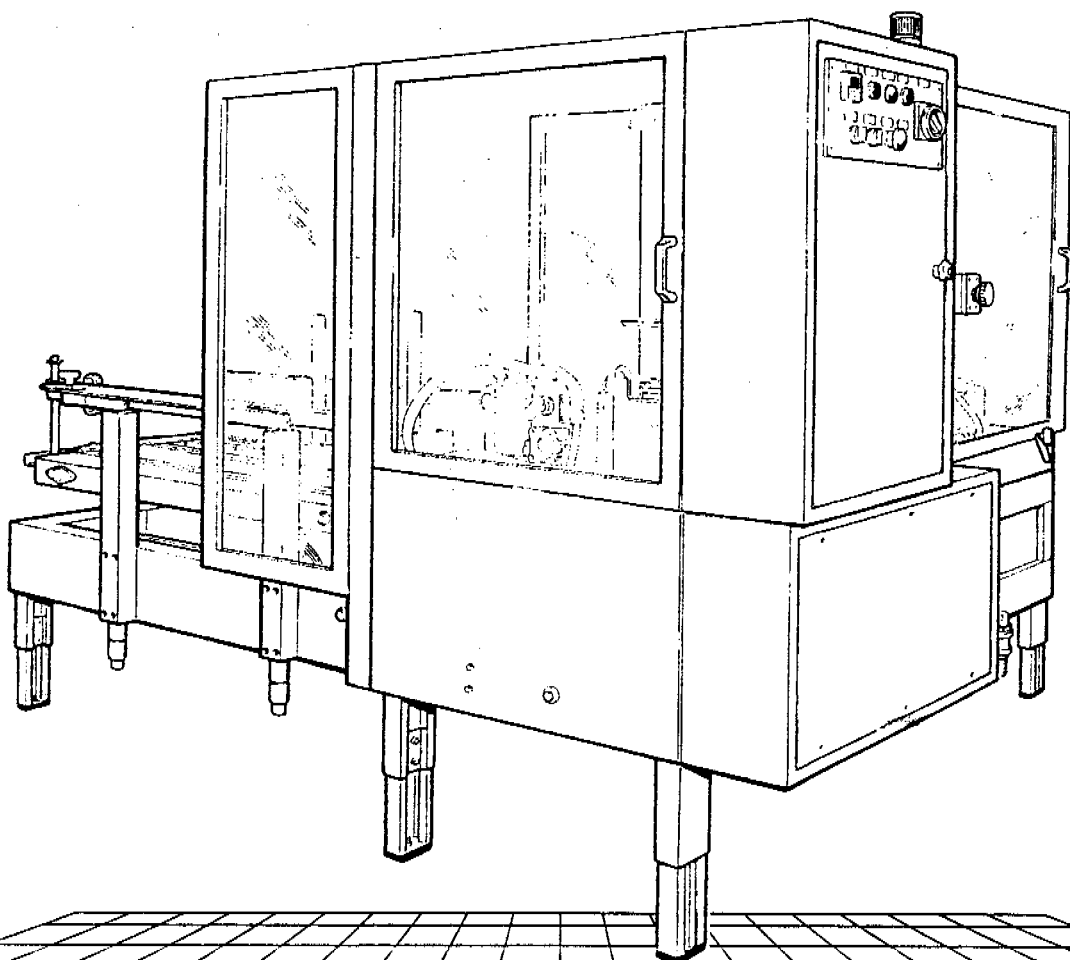




**siat**



# AUTOMATIC CASE FORMER

**F144-SX**  
Type A

INSTRUCTIONS MANUAL AND SPARE PARTS LIST



English edition

Cod. pubbl.: 3.0.00649.95A

*Instruction manual for the use, maintenance, safety, shipment, storage, unpacking, set-up, repairing, trouble shooting, spare parts and disposal concerning the case former model F144-SX.*

*This publication is property of Siat S.p.A. - Via Puecher, 22 - 22078 TURATE (CO) - ITALY  
Tel. 02-964.951 - Fax 02-968.9727*

*Edition September 1995*

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*The manufacturer reserves the right to modify the product at any time without notice.*

*Publication N° 3.0.00649.95A  
Release **I***

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## 0-PREMESSE - INTRODUCTION

### NORME COSTRUTTIVE

La macchina è stata progettata e costruita secondo la Direttiva Macchine CEE 89/392 rispondendo ai requisiti richiesti dalla legislazione alla data di costruzione.

#### I DOCUMENTI DI RIFERIMENTO SONO:

Direttiva	89/392/CEE e linee guida per l'applicazione. CEN/TC 146/WG2 macchine da imballaggio CEN/TC 189/N44 macchine da stampa
EN 292	1 - 2 Basic concepts - terminology + specification
EN 294	Safety Distance (upper limbs)
EN 349	Minimum gap
EN 418	Emergency Stop Equipment
EN 457	Auditory Danger Signals
EN 775	(ISO 10218) Manipulating - Industrial Robots
EN 23741	Acoustics - ampio spettro (Broad-Band)
EN 23742	Acoustics - Discrete Frequency and Narrow Band (Banda stretta)

### 0.1 COME LEGGERE E UTILIZZARE IL MANUALE ISTRUZIONI

#### 0.1.1 IMPORTANZA DEL MANUALE

Il manuale è parte integrante della macchina, le informazioni in esso contenute vi aiuteranno a mantenere la vostra macchina in perfette condizioni ed a lavorare in piena sicurezza.

Custodire il manuale per tutta la durata del prodotto.

Assicurarsi che qualsiasi emendamento pervenuto sia incorporato nel testo.

Passare il manuale a qualsiasi utente o successivo proprietario della macchina.

Gli schemi elettrici e pneumatici sono normalmente allegati al manuale.

Per le macchine più complesse dotate di PLC o di elettronica dedicata, gli schemi possono essere attaccati al quadro comandi o consegnati a parte.

### MANUFACTURING SPECIFICATIONS

*The machine has been designed and manufactured according to the Machinery Directives CEE 89/392 in compliance with law requirements at the date of its manufacture.*

#### THE REFERENCE DOCUMENTS ARE:

Directives	89/392/CEE and the guidelines for its application CEN/TC 146/WG2 on packaging machinery CEN/TC 189/N44 on printing machinery
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EN 292	1 - 2 Basic concepts - terminology - specification
EN 294	Safety Distances (upper limbs)
EN 349	Minimum gap
EN 418	Emergency Stop Equipment
EN 457	Auditory Danger Signals
EN 775	(ISO 10218) Manipulating - Industrial Robots
EN 23741	Acoustics - Broad-Band
EN 23742	Acoustics - Discrete Frequency and Narrow Band

### HOW TO READ AND USE THE INSTRUCTION MANUAL

#### IMPORTANCE OF THE MANUAL

*The manual is an integral part of the machine. The information it contains will help you to maintain your machine in good and safe working conditions. Please keep the manual during the entire working life of the machine.*

*Make sure that any supplement to the manual sent by the manufacturer is promptly integrated in the manual itself.*

*The manual must accompany with the machine when it is delivered to another user.*

*Electrical and pneumatic diagrams are usually supplied with the machine.*

*In machine models using a PLC or electronic devices, the diagrams can be found attached on the control panel or may be delivered apart.*

### 0.1.2

#### CONSERVAZIONE DEL MANUALE

Conservare il manuale in luogo protetto da umidità e calore.  
Non asportare, strappare o riscrivere per alcun motivo parti del manuale.  
Usare il manuale senza danneggiarlo.  
In caso di perdita o danneggiamento, richiedere una copia al proprio servizio assistenza/ricambi citando il codice documento.

#### MANUAL-MAINTENANCE

Keep the manual in a dry place. Do not remove, tear or rewrite parts of the manual for any reason.  
Use the manual without damaging it.  
In case the manual has been lost or damaged, ask your after sale service for a new copy, quoting the code number of the document.

### 0.1.3

#### CONSULTAZIONE DEL MANUALE

Il manuale è composto da:

- pagine di identificazione del documento e della macchina
- avvertenze generali di sicurezza;
- istruzioni per il trasporto;
- istruzioni generali per l'installazione;
- istruzioni per l'uso e la manutenzione;
- allegati, disegni e schemi;
- ricambi.

Tutte le pagine e le tabelle sono numerate e le tavole ricambi sono identificate con il numero della figura.

Le parti evidenziate in **grassetto** contengono particolari riferimenti a caratteristiche o note tecniche specifiche per l'argomento in questione.

#### CONSULTING THE MANUAL

The manual is composed of:

- pages which identify the document and the machine;
- important safeguards;
- instructions for transportation;
- instructions for installation;
- instructions for use and maintenance;
- enclosures, drawings and diagrams;
- spare parts.

All the pages and the diagrams are numbered. The spare parts lists are identified by the figure identification number.

The parts typed in **bold** refer to technical data or technical notes on a specific subject.

### 0.2

#### METODOLOGIA DI AGGIORNAMENTO DEL MANUALE IN CASO DI MODIFICHE ALLA MACCHINA

Le modifiche alla macchina sono regolate da opportuna procedura interna del costruttore.

L'utilizzatore riceve il manuale completo e aggiornato insieme alla macchina e può ricevere pagine o parti del manuale contenenti emendamenti successivi alla prima pubblicazione, che dovranno essere integrate nel manuale a cura dell'utilizzatore.

#### HOW TO UPDATE THE MANUAL WHEN MODIFICATIONS TO THE MACHINE ARE MADE

Modifications to the machine are subject to manufacturer's internal procedures.

The user receives a complete and up-to-date copy of the manual together with the machine.

Afterwards the user may receive pages or parts of the manual which contain amendments or improvements made after its first publication.

The user must use them to integrate this manual.



## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION

### 1.1 DATI DI IDENTIFICAZIONE DEL COSTRUTTORE E DELLA MACCHINA



Via Puecher, 22  
22078 TURATE (CO) - ITALY

Tel. 02-964951  
Fax. 02-9689727

### SERIAL NUMBER OF THE MACHINE AND NAME OF THE MANUFACTURER



**Siat** S.p.a  
22078 TURATE - ITALY



MODEL

SERIAL NUMBER

YEAR

V

PHASE

Hz

W

A

DRAW.

### 1.2 PER ASSISTENZA TECNICA/ MANUTEN- TIVA E RICAMBI RIVOLGERSI A:



Via Puecher, 22  
22078 TURATE (CO) - ITALY

Tel. 02-964951  
Fax. 02-9689727

### FOR AFTER-SALE SERVICE AND SPARE PARTS PLEASE APPLY TO:

AGENTE/DISTRIBUTORE O SERVIZIO  
ASSISTENZA TECNICA LOCALE:  
AGENT/DISTRIBUTOR OR LOCAL  
AFTER SALE SERVICE:

## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION

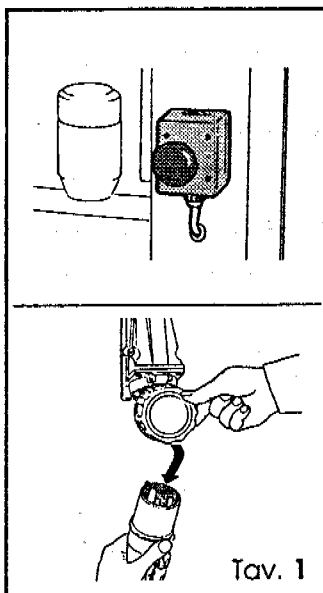
### 1.3 AVVERTENZE GENERALI DI SICUREZZA

### GENERAL SAFETY INFORMATION

1.3.0 Leggere attentamente tutte le istruzioni prima di utilizzare la macchina.

*Read carefully all the instructions before starting work with the machine.*

La macchina dispone di un pulsante STOP EMERGENZA a ritenuta; se premuto arresta la macchina in qualsiasi punto del ciclo.



*The machine is provided with a LOCKABLE EMERGENCY STOP BUTTON; when this button is pressed, it stops the machine at any point of the working cycle.*

Staccare la spina di alimentazione dalla presa di corrente (e disattivare l'aria compressa, se presente) prima di ogni operazione di manutenzione.

*Disconnect the electrical plug from the mains (and disconnect air, if the machine has a pneumatic system) before any maintenance operation.*

Conservare questo manuale di istruzioni: le informazioni in esso contenute vi aiuteranno a mantenere la vostra macchina in perfette condizioni ed a lavorare in piena sicurezza.

*Keep this manual in a handy place near the machine: the information it contains will help you to maintain the machine in good and safe working conditions.*

### 1.3.1 INFORMAZIONI SULL'ADDESTRAMENTO RICHIESTO E DEFINIZIONI DELLE QUALIFICHE DEGLI OPERATORI

### OPERATOR'S TRAINING AND REQUIRED SKILL LEVELS

- Operatore conduttore di macchina;
- Manutentore meccanico;
- Manutentore elettrico;
- Tecnico del costruttore

- Machine operator
- Maintenance technician
- Electrician
- Manufacturer's technician

Il lavoro con la macchina può essere svolto solo da persone aventi le qualifiche definite qui di seguito. Sarà responsabilità dell'utilizzatore definire le persone qualificate ai vari livelli di intervento e dare alle stesse l'idoneo addestramento e le consegne operative come definite in questo manuale.

*Only persons who have the skills described on the following paragraph should be allowed to work on the machine.*

*It is responsibility of the user to appoint the operators having the appropriate skill level and the appropriate training for each category of job.*

## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION

---

### QUALIFICA 1

#### CONDUTTORE DI MACCHINA

Operatore addestrato e abilitato alla conduzione della macchina attraverso l'uso dell'interruttore generale e dello stop di emergenza, regolazioni delle dimensioni macchina sulla scatola, cambio nastro, avviamento, fermata e ripristino della produzione. NOTA: I responsabili di stabilimento e di reparto presteranno estrema attenzione che il conduttore macchina sia stato addestrato a tutte le operazioni prima di cominciare a lavorare con la macchina.

### QUALIFICA 2

#### MANUTENTORE MECCANICO

Tecnico qualificato in grado di condurre la macchina come il CONDUTTORE MACCHINA e in più di farla funzionare con protezioni disabilitate, di intervenire sugli organi meccanici per regolazioni, manutenzioni, riparazioni. Non è abilitato a interventi su impianti elettrici sotto tensione.

### QUALIFICA 2a

#### MANUTENTORE ELETTRICO

Tecnico qualificato in grado di condurre la macchina come il CONDUTTORE MACCHINA e in più di farla funzionare con protezioni disabilitate, di intervenire sulle regolazioni e sugli impianti elettrici per manutenzione e riparazione. Opera in presenza di tensione all'interno di quadri elettrici e scatole di derivazione, apparecchiature di controllo etc.

### QUALIFICA 3

#### TECNICO DEL COSTRUTTORE

Tecnico qualificato del costruttore o del suo rappresentante per operazioni complesse, quando concordato con l'utilizzatore.

### SKILL 1

#### MACHINE OPERATOR

*This operator is trained to use the machine through the controls on the switch-board, to make adjustments according to the case sizes, to change the tape, to start, stop and restart the production.*

*N.B: the factory manager must pay attention that the operator has been properly trained on all the functions of the machine before starting work.*

### SKILL 2

#### MAINTENANCE TECHNICIAN

*This operator is qualified to use the machine as the MACHINE OPERATOR, and moreover he is able to work with the safety protections disconnected, to check and adjust the mechanical parts, to carry out maintenance operations and repair the machine. He is not allowed to work on live electrical parts.*

### SKILL 2a

#### ELECTRICIAN

*This operator is qualified to use the machine as the MACHINE OPERATOR, and moreover he is able to work with the safety protections disconnected, to make adjustments, to carry out maintenance operations and repair the electrical parts of the machine. He is allowed to work on live electrical panels, connector blocks, control equipments etc.*

### SKILL 3

#### MANUFACTURER'S TECHNICIAN

*Skilled operator sent by the manufacturer or his agent to perform complex repairs or modifications, when agreed with the customer.*

## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION

### 1.3.2 PERICOLI RESIDUI

Il formatore F144 è stato progettato con una protezione antinfortunistica che interrompe il funzionamento quando l'operatore la apre per accedere alle parti in movimento. Tale protezione antinfortunistica non deve mai essere rimossa o disattivata.

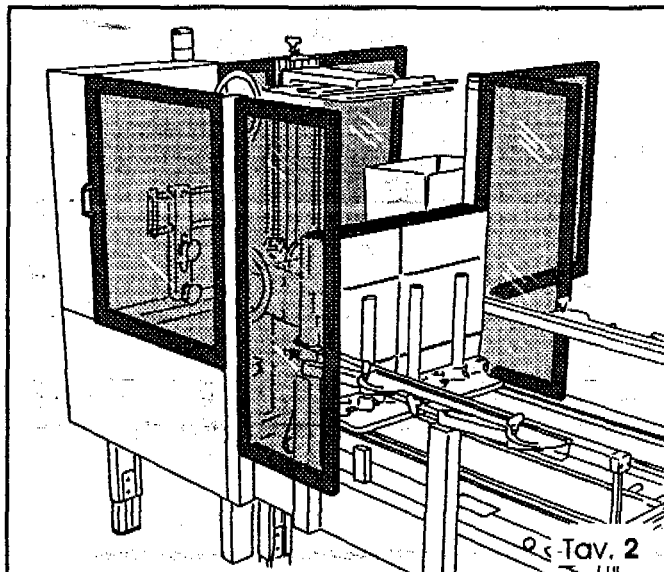
Nonostante le precauzioni adottate dai progettisti per la sicurezza, è essenziale che l'operatore e i tecnici addetti alla manutenzione siano preventivamente informati dei seguenti pericoli residui non eliminabili:



#### RESIDUAL HAZARDS

*The case former F144 has been designed with a safety protection which stops the machine when the operator opens it to access the moving parts. The safety protection should never be removed or disabled.*

*Notwithstanding the safety precautions conceived by the designers of the machine, it is essential that the operator and service personnel be warned that the following uneliminable residual hazards exist.*



#### ATTENZIONE! Lama taglio nastro.

Non rimuovere il dispositivo di sicurezza che copre la lama di taglio delle unità nastranti superiore ed inferiore.

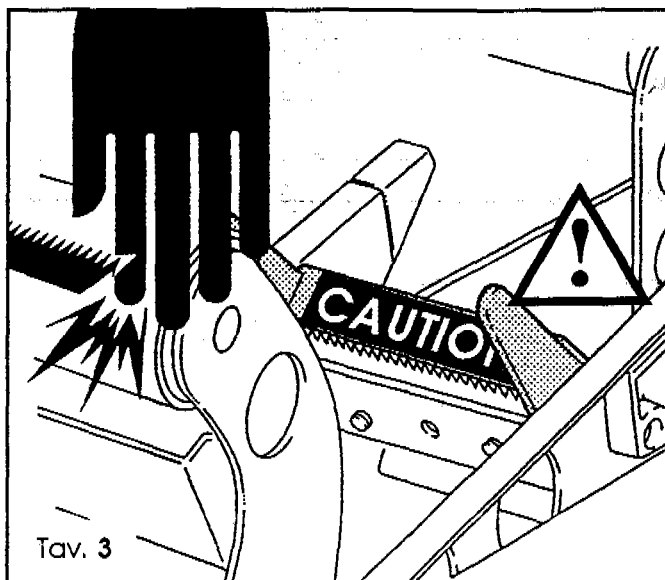
Le lame sono estremamente taglienti. Un errore può causare severe ferite.



#### WARNING! Tape cutting blade.

*Never remove the safety device which covers the blade on the top and bottom taping units.*

*Blades are extremely sharp. An error may cause bad injuries.*

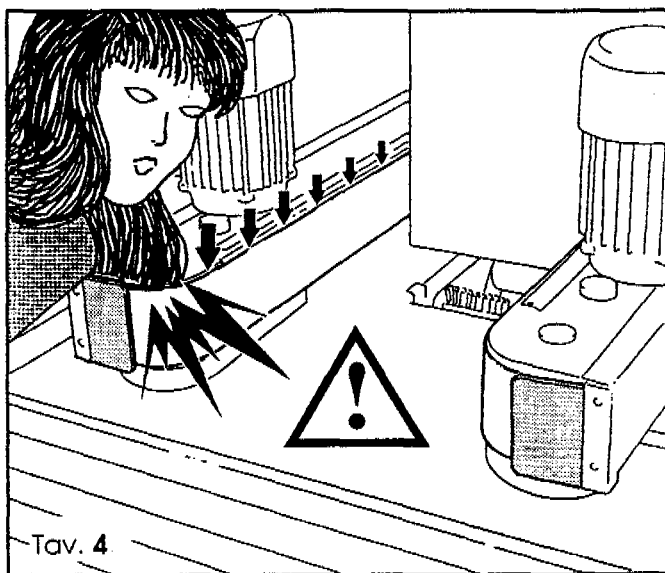


**ATTENZIONE!** Non avvicinare mai alla macchina capelli o indumenti liberi come foulard, cravatte o maniche larghe. Anche se protette da appositi carter, le cinghie di trascinamento possono essere pericolose.



**WARNING!** *Never work on the machine with loose hair or loose garments such as scarfs, ties or sleeves.*

*Although protected by safety covers, the drive belts may be dangerous.*

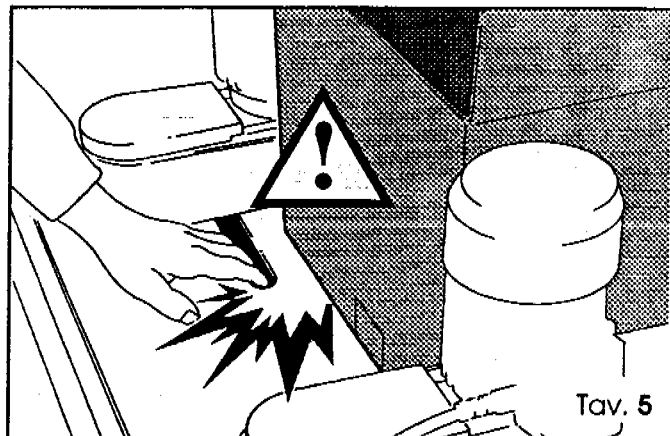


## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION



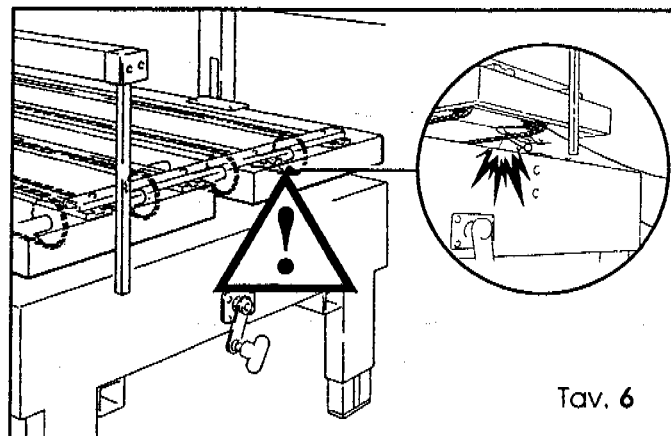
**ATTENZIONE!** Non Inserire mai le mani all'interno della macchina durante il moto. Pericolo di schiacciamento.

**WARNING!** Never put your hands inside any part of the machine while it is working. Serious injuries may occur.



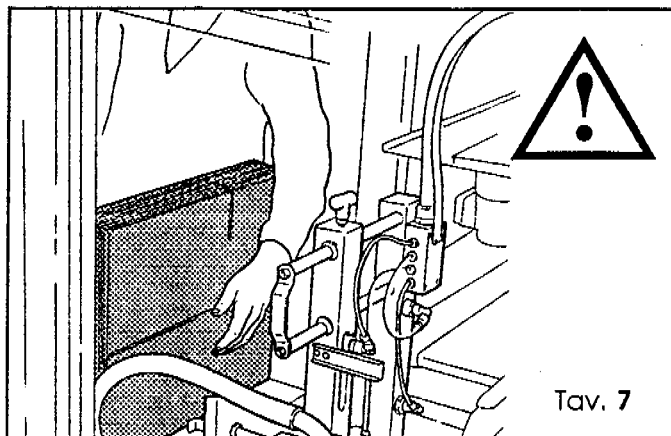
- Catene trascinamento magazzino cartoni.
- Non Inserire la mano sotto il piano regolabile.
- Pericolo di schiacciamento tra la catena ed il pignone.

- Chains and pinions driving the case feeder.
- Keep hands away from the lower side of the adjustable feeder bed, as they may be trapped between chain and pinion (see circled illustration).



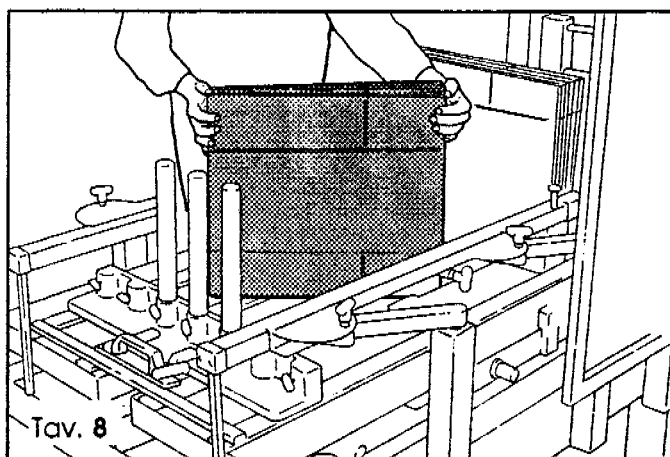
Non inserire le braccia tra il carrello porta ventose e il magazzino cartoni, se non attraverso la porta della protezione dopo aver premuto lo stop emergenza a ritenuta. Pericolo di schiacciamento.

*Keep hands away from the moving parts which pick up the cases from the feeder. When it is necessary to access the case forming mechanism, only do so through the safety door, after pressing the emergency stop button.*



Posizione corretta per le mani dell'operatore.

*Correct position for the operator's hands.*



## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION

**1.3.3 MEZZI PERSONALI DI PROTEZIONE**  
(Occhiali, guanti, elmetto, scarpe, filtri/respiratori, tappi).  
Nessuno, se non raccomandati dall'utilizzatore.

**PERSONAL SAFETY MEASURES**  
(Safety glasses, gloves, safety helmet, safety shoes, air filters, ear plugs)  
None is required, except when recommended by the user.

**1.3.4 DIVIETI RELATIVI A COMPORTAMENTI NON CONSENTITI O NON CORRETTI, RAGIONEVOLMENTE PREVEDIBILI**

**PREDICTABLE ACTIONS WHICH ARE INCORRECT AND NOT ALLOWED**

- Non cercate mai di contrastare l'azione di trascinamento della scatola senza prima aver premuto il pulsante STOP EMERGENZA.
- Non utilizzate la macchina con le protezioni smontate.
- Non inibire le sicurezze.
- Solo il personale autorizzato avrà facoltà di effettuare le regolazioni, riparazioni e manutenzioni che richiedono l'azionamento della macchina con le protezioni ridotte. Durante tali operazioni l'accesso alla macchina sarà ristretto ai soli operatori aventi idonee qualifiche. Al termine di ogni intervento sarà subito ripristinato lo stato della macchina con protezioni attive.
- Le operazioni di pulizia e manutenzione devono essere fatte dopo aver tolto l'energia elettrica e l'aria compressa.
- Non modificare la macchina o parti di macchina. La Siat non risponde delle conseguenze.
- Consigliamo di richiedere eventuali modifiche alla Siat S.p.A.
- Pulire con panni asciutti o blande soluzioni detergenti. Non usare solventi, benzine etc.
- Collocare la macchina come stabilito all'ordine, dagli schemi o lay-out suggeriti. La Siat S.p.A. non risponde di inconvenienti causati da caso contrario.



- Never try to stop or hold the box while it is being driven by the belts. Use only the EMERGENCY STOP BUTTON.
- Never work without the safety protections.
- Never remove or disable the safety devices.
- Only authorised personnel should be allowed to carry out the adjustments, repairs or maintenance which require operation with reduced safety protections. During such operations, access to the machine must be restricted. When the work is finished, the protections must be immediately re-activated.
- The cleaning and maintenance operations must be only performed after disconnecting the electric power and the compressed air.
- Do not modify the machine or parts of it. The manufacturer will not be responsible for any modifications.
- Clean the machine using only dry clothes or light detergents. Do not use solvents, petrols etc.
- Install the machine following the suggested layouts and drawings. The manufacturer will not be responsible for damages caused by improper installation.



**1.3.5 STATO DELLA MACCHINA**  
Elenco degli stati possibili con questa macchina:

- Marcia automatica;
- Marcia con protezioni ridotte;
- Arresto con interruttore generale;
- Arresto con pulsante di emergenza ritenuto
- Collegamento elettrico disconnesso

**OPERATING MODES**  
List of the modes which are possible with this machine:

- automatic running;
- running with safety protections removed or disabled;
- stopped by using the main switch;
- stopped by using the lockable emergency stop button;
- electric power disconnected.

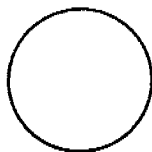
## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION

### 1.3.6 RIEPILOGO DEI PRINCIPALI AVVERTIMENTI ED ETICHETTE RIPORTATI SULLE MACCHINE SIAT

### TABLE OF WARNINGS, LABELS, PLATES AND DRAWINGS TO BE FOUND ON THE SIAT MACHINES



SEGNALI DI PERICOLO - DANGER SIGNALS



SEGNALI DI OBBLIGO/DIVIETO - COMPULSORY ACTIONS/PROHIBITION SIGNALS



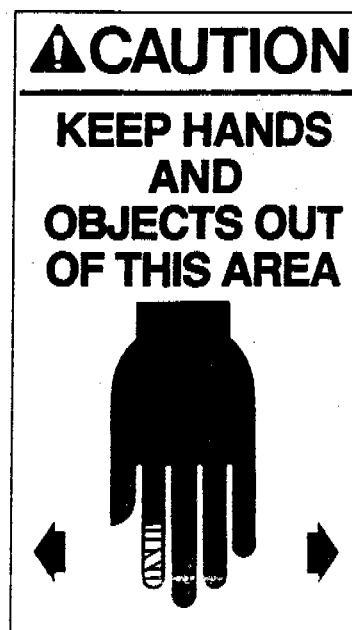
SEGNALI DI INFORMAZIONE - INFORMATION SIGNALS

a



Tenere le mani lontane dagli organi in movimento.

*Keep hands out of working parts*



b

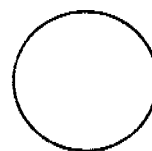


Attenzione! Lama da taglio

*Warning! Sharp blade*



c



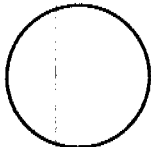
Posizione obbligatoria per sollevamento  
della macchina con muletto o altra  
attrezzatura idonea

*Compulsory position to lift the machine  
with forklifts or other equipment*

**FORK HERE**

## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION

d



È obbligatorio scollegare la spina dalla presa di alimentazione prima di iniziare ogni operazione di manutenzione.

*Before starting any maintenance operation the electric power must be disconnected.*

**ATTENZIONE:** STACCARE  
LA SPINA PRIMA DELLA  
MANUTENZIONE

**CAUTION:** DISCONNECT  
PLUG BEFORE SERVICING



**ATTENTION:** DETACHER  
LA FICHE AVANT L'ENTRETIEN

**ACHTUNG:** VOR DER  
WARTUNG, DEN STECKER  
ABSCHALTEN

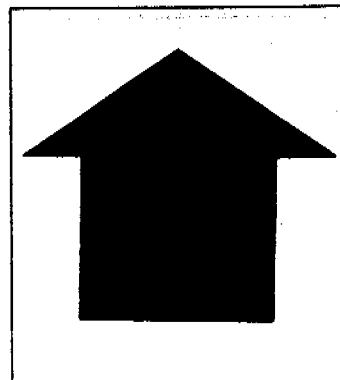
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e

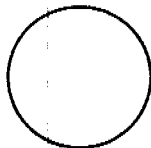


Indica la direzione di marcia della cinghia di trascinamento.

*Shows the running direction of the belts.*



f



Messa a terra.

*Earth connection.*





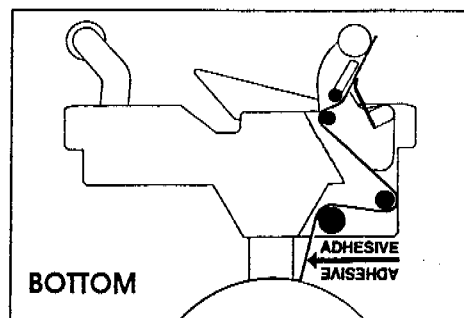
## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION

g

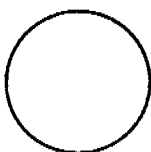


Percorso nastro unità nastrante  
(posta sull'unità).

*Tape threading path for the  
taping unit (the label is placed  
on the unit).*

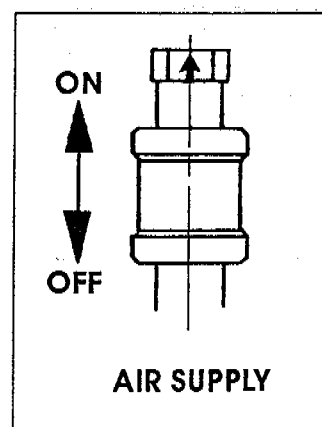


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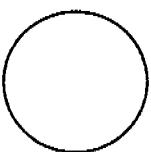


È obbligatorio disattivare l'aria compressa  
prima di iniziare ogni operazione di  
manutenzione

*Always disconnect compressed air  
supply before servicing*



i



Assicurarsi che la pressione dell'aria non  
superi il valore prescritto

*Make sure that air pressure does not exceed  
the correct specification*

**ATTENZIONE:** DISATTIVARE  
L'ARIA COMPRESSA PRIMA  
DELLA MANUTENZIONE

**CAUTION:** DISCONNECT  
AIR SUPPLY BEFORE  
SERVICING

**AIR PRESSURE**  
**80 PSIG 6 kg/cm<sup>2</sup>**  
**MIN**

**ATTENTION:** COUPER L'AIR  
COMPRIMÉ AVANT  
L'ENTRETIEN PRESSION

**ACHTUNG:** DRUCKLUFT  
VOR DER WARTUNG  
ABSCHALTEN

## 1-INFORMAZIONI GENERALI - GENERAL INFORMATION

### 1.4.0 TABELLA DELLE ABBREVIAZIONI, SIGLE E TERMINI NON DI USO COMUNE

### LIST OF ABBREVIATIONS, ACRONYMS AND UNUSUAL TERMS TO BE FOUND IN THIS MANUAL

All.	=	Allegato
Dis.	=	Disegno
Es.	=	Esempio
Fig.	=	Figura ricambi
Max.	=	Massimo
Min.	=	Minimo/a
Mod.	=	Modello della macchina
N.	=	Numero
N/A	=	Non si applica (Not Applicable)
OFF	=	Macchina ferma
ON	=	Macchina in moto
OPP	=	Polipropilene Orientato
P.L.C.	=	Programmable Logic Control (Apparecchiatura di controllo a logica programmabile)
PP	=	Polipropilene
PTFE	=	Poltetrafluoroetilene
PVC	=	Polivinilcloruro
Ric.	=	Richiami
S.I.A.T. SpA	=	Società Internazionale Applicazioni Tecniche (Società per Azioni)
Tav.	=	Tavola illustrata
w	=	Larghezza
h	=	Altezza
l	=	Lunghezza

Dwg.	=	drawing
Encl.	=	enclosure
Ex.	=	example
Fig.	=	figure showing spare parts
Max.	=	maximum
Min.	=	minimum
Mod.	=	machine model
N.	=	number
N/A	=	not applicable
OFF	=	machine stopped
ON	=	machine running
OPP	=	polypropylene adhesive tape
Pict.	=	picture
P.L.C.	=	Programmable Logic Control
PP	=	polypropylene
PTFE	=	Polytetrafluorethylene
PVC	=	Polyvinylchloride
Ref.	=	reference mark
SIAT SPA	=	Società Internazionale Applicazioni Tecniche (Società per Azioni)
Tav.	=	picture

w = width

h = height

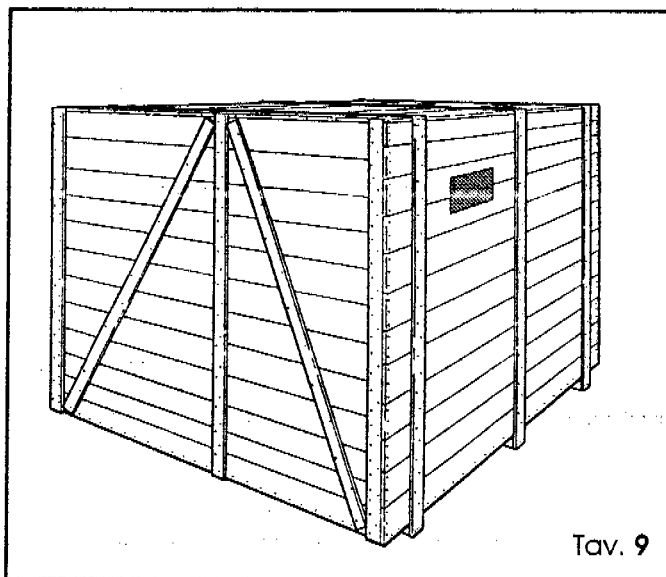
l = length

### 2.0 SICUREZZA (Vedi 1.3) SAFETY MEASURES (See section 1.3)

#### 2.1 DISIMBALLO UNPACKING

Busta all'esterno dell'imballo contenente le istruzioni per il disimballo della macchina.

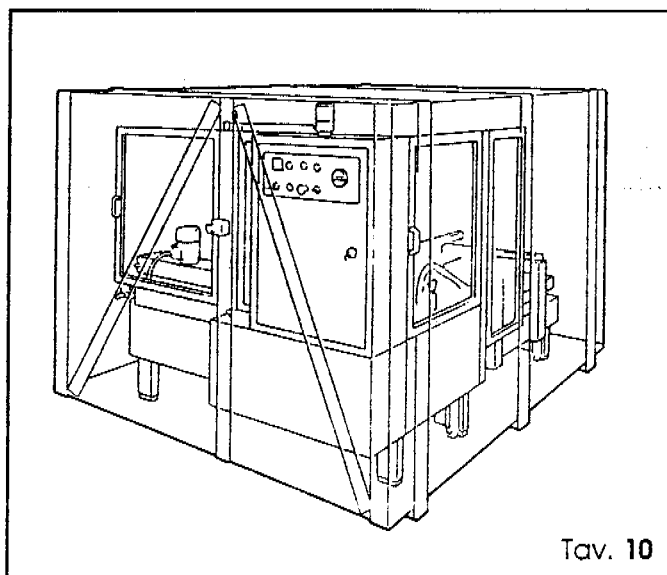
*The envelope attached to the external side of the packing case contains the instructions concerning the unpacking of the machine.*



Tav. 9

Posizione della macchina all'interno dell'imballo

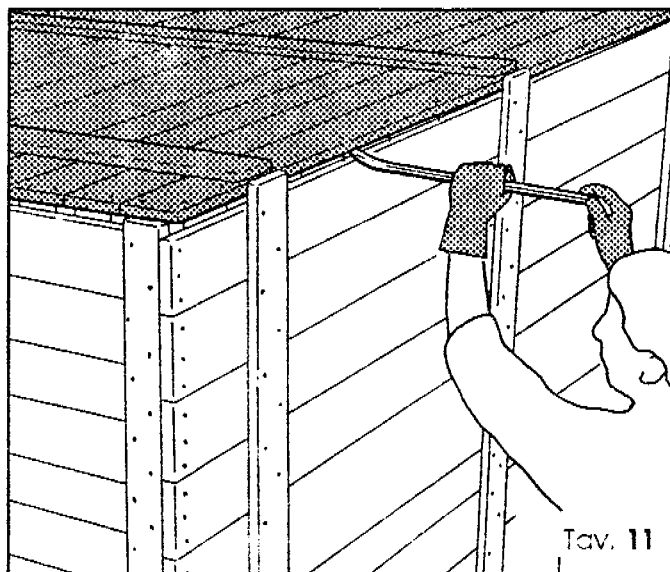
*Machine layout inside the packing.*



Tav. 10

Schiodare e rimuovere il coperchio della cassa utilizzando attrezzi idonei e guanti di protezione. Prestare attenzione ai chiodi ed alle schegge di legno.

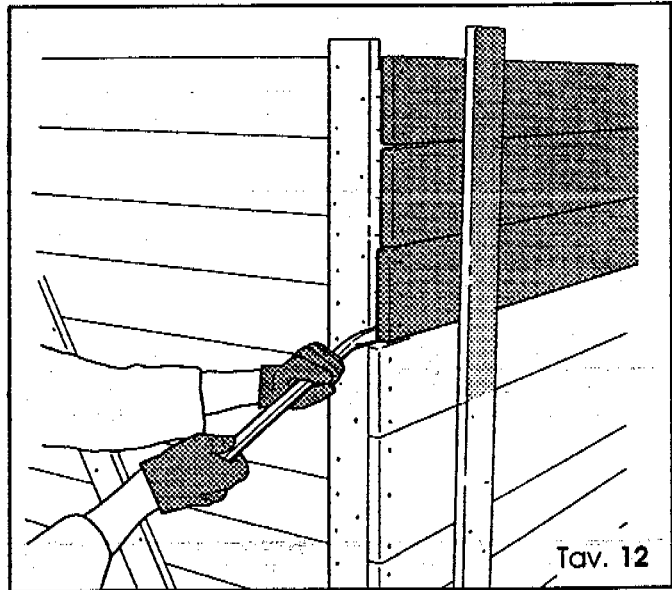
*Unnail the top side of the case using the appropriate tools and gloves. Pay attention to nails and splinters.*



Tav. 11

Schiodare e rimuovere le quattro pareti della cassa di legno. Porre attenzione ad evitare che le pareti cadano a terra causando danni a persone o cose (Minimo 2 persone).

*Unnail and remove the four side walls of the case. Take care to hold each wall to avoid that it may fall to the floor causing damages or injuries. (minimum 2 persons).*

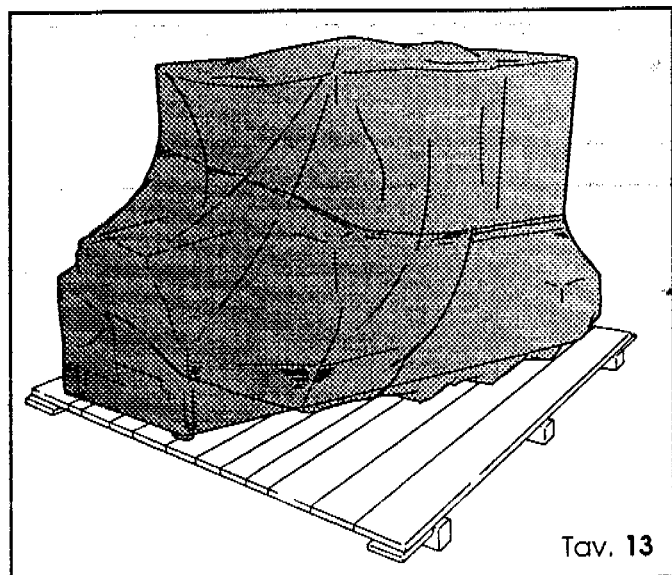


### **PROTEZIONE MACCHINA**

Rimuovere la protezione in plastica senza utilizzare lame o altri attrezzi.

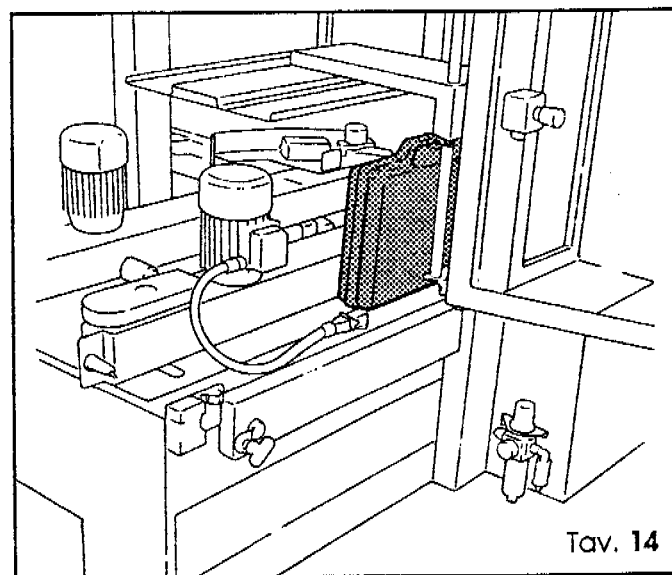
### **MACHINE PROTECTION**

*Remove the plastic protection, without using a cutter or other tools.*



Recuperare il manuale istruzioni in modo da eseguire tutte le fasi successive utilizzando come guida il manuale stesso.

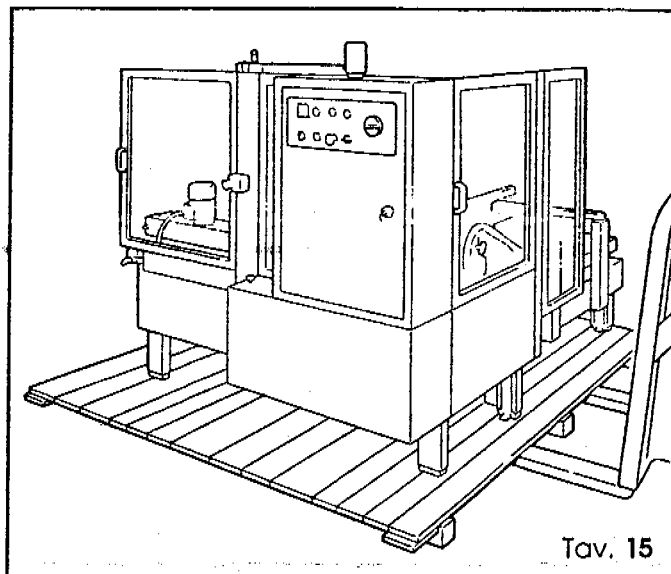
*For all the other operations, please follow the instructions contained in the manual.*



Trasportare la macchina con un muletto fino al punto in cui essa sarà collocata.

(Peso kg 800).

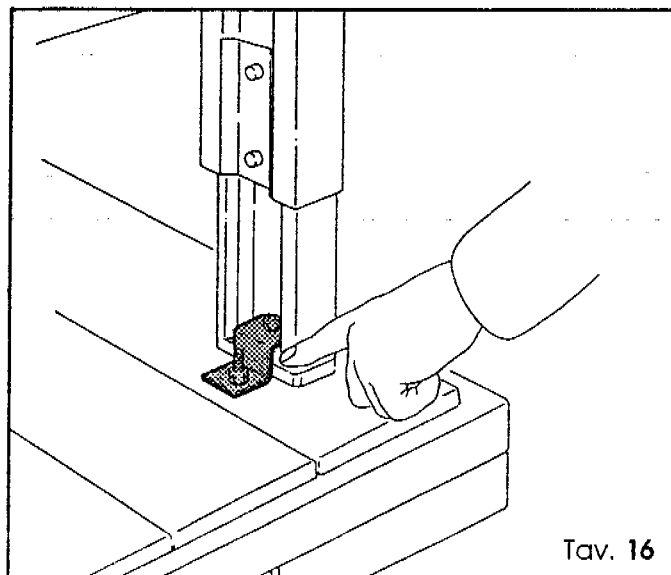
*Use a forkltruck to carry the machine to its working location.  
(Weight kg 800).*



Tav. 15

Allentare i dadi e rimuovere, con la chiave in dotazione, le squadrette di bloccaggio che fissano la macchina al bancale.

*Unscrew the nuts and remove the brackets which fix the machine to the pallet.*



Tav. 16

### 2.2

#### SMALTIMENTO DELL'IMBALLO

L'imballo della macchina è composto da:

- cassa in legno;
- supporti in legno;
- staffe di fissaggio in acciaio;
- protezione in polietilene espanso;
- regge in plastica (PP)
- sali disidratanti in argilla

**Per lo smaltimento comportarsi secondo le norme vigenti nel proprio paese.**

#### PACKING DISPOSAL

The packing of the machine is composed of:

- wooden box
- wooden supports
- steel fixing brackets
- polythene foam protection
- plastic straps (PP)
- clay dehydrating pouches

**For the disposal of these materials please follow the provisions of the law in your country.**

## 2-TRASPORTO-MOVIMENTAZIONE-IMMAGAZZINAMENTO - SHIPMENT-HANDLING-STORAGE

2.3	<b>IMMAGAZZINAMENTO MACCHINA IMBALLATA E DISIMBALLATA</b> Precauzioni per una lunga inattività della macchina: <ul style="list-style-type: none"><li>- immagazzinare in luogo asciutto e pulito;</li><li>- se la macchina è disimballata è necessario proteggerla dalla polvere e non sovrapporre alcunché.</li></ul>	<b>STORAGE OF THE PACKED AND UNPACKED MACHINE</b> In case the machine must stay inactive for a long period, please take the following precautions: <ul style="list-style-type: none"><li>- store the machine in a dry and clean place;</li><li>- if the machine is unpacked it is necessary to protect it from the dust and do not stack anything over the machine.</li></ul>
2.4	<b>TRASPORTO E MOVIMENTAZIONE MACCHINA DISIMBALLATA</b> La macchina disimballata non deve essere trasportata se non per brevissime distanze e all'interno dei reparti. Il trasporto della macchina priva di imballo può causare danni e infortuni.	<b>SHIPMENT AND HANDLING OF THE UNPACKED MACHINE</b> The unpacked machine can only be moved short distances and indoors only. The transportation of the machine without its original packaging can cause damage and accidents.

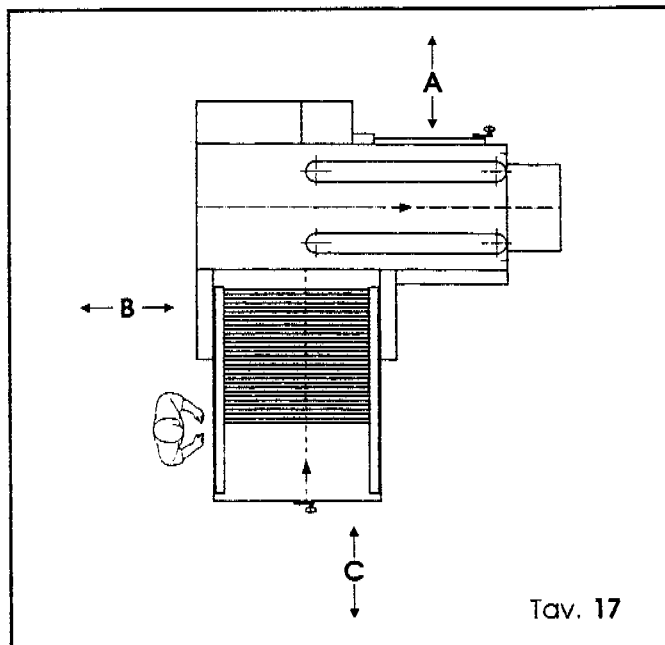
## 3-CONTROLLI DA EFFETTUARE PRIMA DELL'INSTALLAZIONE - PRELIMINARY CHECK-OUT BEFORE INSTALLATION

3.0	<b>SICUREZZA</b> (Vedi punto 1.3)	<b>SAFETY MEASURES</b> (See section 1.3)
3.1	<b>CONDIZIONI AMBIENTALI</b> <ul style="list-style-type: none"><li>- Temperatura min. = 5° C</li><li>- Temperatura max. = 40° C</li><li>- Umidità min. 30%</li><li>- Umidità max. 80%</li><li>- Ambiente esente da polvere</li></ul>	<b>ENVIRONMENTAL CONDITIONS REQUIRED</b> <ul style="list-style-type: none"><li>- Min. temperature = 5° C</li><li>- Max. temperature = 40° C</li><li>- Min. humidity 30%</li><li>- Max. humidity 80%</li><li>- Dust-free environment</li></ul>

### 3.2 SPAZIO NECESSARIO PER L'USO E LA MANUTENZIONE SPACE REQUIRED FOR OPERATION AND MAINTENANCE

Distanza dal muro min.  
**A = 1500 mm**  
**B = 1500 mm**  
**C = 1500 mm**  
Altezza min. = 2700 mm

Min. distance from the wall:  
**A = 1500 mm.**  
**B = 1500 mm.**  
**C = 1500 mm.**  
Min. height = 2700 mm



3.3

#### ALLACCIAMENTO ALLE FONTI DI ENERGIA E RELATIVI CONTROLLI

La potenza installata, il voltaggio e la frequenza idonei per l'alimentazione sono riportati sulla targhetta applicata alla macchina.

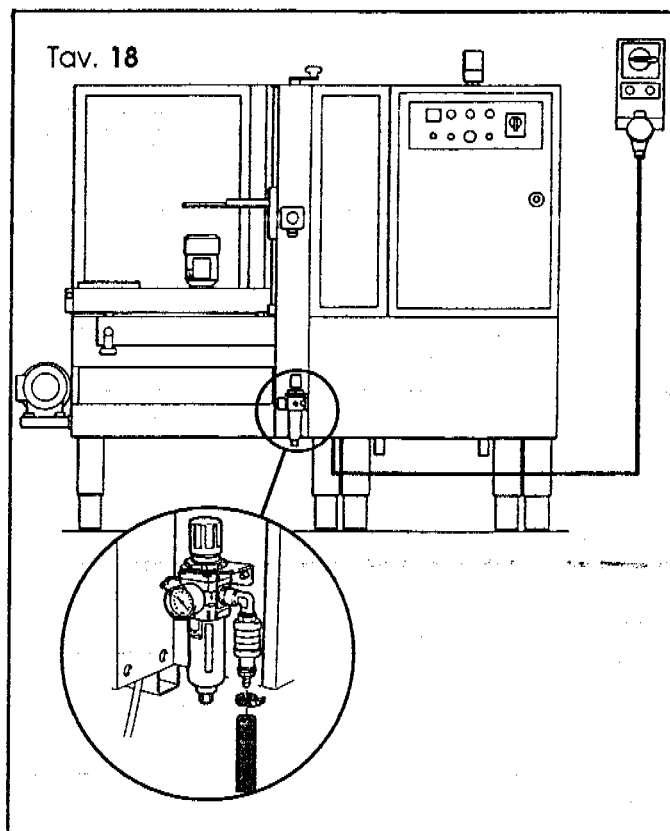
La pressione d'esercizio dell'aria compressa è 6÷7 BAR.

#### MACHINE CONNECTION TO THE MAINS AND CHECKOUT

The power absorption, the voltage and frequency of the appropriate electric power supply are stated on the plate with the serial number of the machine. The correct pressure of compressed air is 6÷7 BAR.

Esempio di collegamento macchina + cavo elettrico, spina verso parete ed aria compressa.

Example of connection of the machine to a wall plug.

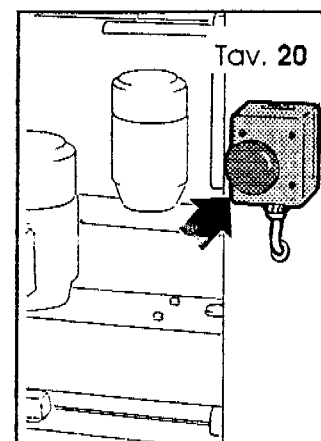
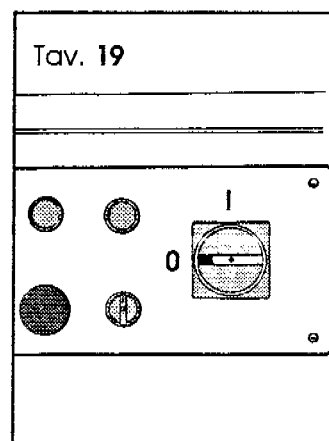


Girare l'interruttore principale sulla posizione **0**.

Premere il tasto STOP EMERGENZA a ritenuta.

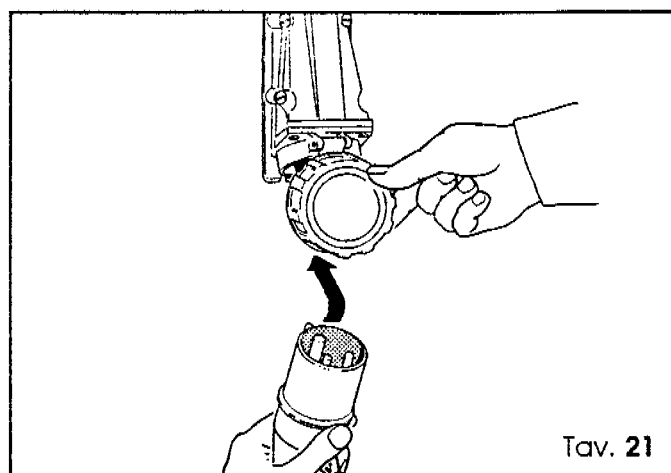
Turn the main switch to the **0** position (OFF).

Push the lockable emergency stop button.



Collegare, al cavo fornito con la macchina, una spina conforme alla normative del paese dell'utilizzatore.

Connect the cable supplied with the machine to a plug which complies with the safety regulation of your country.



### 3-CONTROLLI DA EFFETTUARE PRIMA DELL'INSTALLAZIONE - PRELIMINARY CHECK-OUT BEFORE INSTALLATION

#### 3.4 CONTROLLI ELETTRICI PRELIMINARI

Prima di collegare la macchina alla presa di corrente compiere i seguenti controlli:

#### PRELIMINARY ELECTRIC CHECK-OUT

Before connecting the machine to the mains please carry out the following operations:

**3.4.1** Accertarsi che la presa sia munita di circuito di protezione e che la tensione e la frequenza di alimentazione corrispondano a quelle riportate sulla targhetta della macchina.

Make sure that the socket is supplied with a earth protection circuit and that both the mains voltage and the frequency match the specifications on the name plate.

**3.4.2** È responsabilità dell'utilizzatore accertare che il collegamento della macchina alla rete rispetti le norme in vigore nel luogo dell'installazione.

Check that the connection of the machine to the mains meets the requirements of law and/or the safety regulations in your country.

**3.4.3** La macchina è dotata di interruttore generale con potere di interruzione di 6 kA e sganciatore di corto circuito che interviene a 120 A.  
È responsabilità dell'utilizzatore controllare la corrente di corto circuito del suo impianto e verificare che l'intensità di corrente prevista ai morsetti dell'interruttore generale sia compatibile con l'impianto stesso.

The machine is fitted with a main switch having a maximum breaking power of 6 kA and a short-circuit breaker pre-set at 120 A.

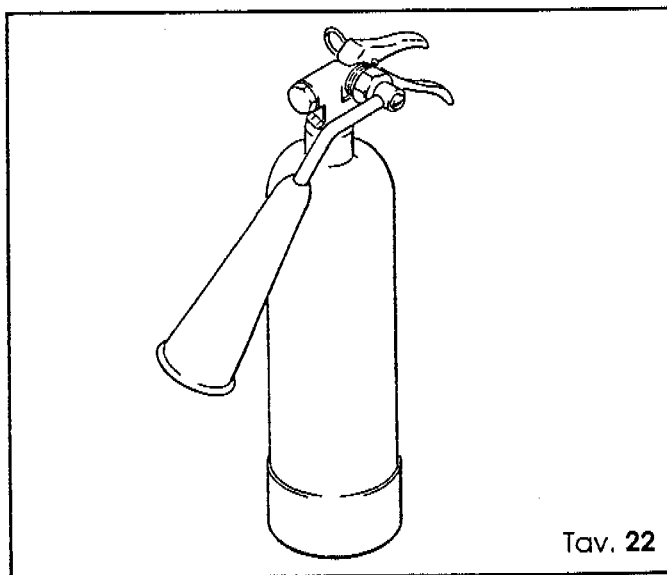
The user will be responsible of testing the short-circuit current in its facility and should check that the short-circuit amperage setting on the main switch of the machine is compatible with all the components of the mains system.

### 4-IN CASO DI INCENDIO - IN CASE OF FIRE

**4.0** In caso di incendio utilizzare estintore contenente CO<sub>2</sub>  
Non utilizzare in nessun caso acqua.



*In case of fire use an extinguisher containing CO<sub>2</sub>  
Do not use water.*



Tav. 22



## INDEX

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## WARRANTY

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Within the limits of what is set forth below, Seller agrees to repair or replace without cost to Buyer any defective goods when such defect occurs within a period of six (6) months from the date in which Seller's goods have been put into use, but in no event beyond eight (8) months from the date of shipment.

Expressly excluded from this warranty are those parts subject to normal wear and tear (by way of illustration, but not limitation, such parts as belts, rubber rollers, gaskets, brushes, etc.) and electrical parts.

Buyer must immediately notify Seller of any defect, specifying the serial number of the machine.

Buyer shall send to Seller the defective item for repair or replacement. Seller will perform the repairs or provide a replacement within a reasonable period of time. Upon effecting such repair or replacement, Seller shall have fulfilled its warranty obligations. In the event the repairs or replacement must be effected at the place where the machine is installed, all expenses for labor, travel and lodging of Seller's personnel shall be sustained by the Buyer. Buyer will be invoiced in conformity with Seller's standard charges for the services rendered.


Within the limits of this warranty, Seller will be responsible for defects resulting from the normal use of its machines, but not for defects resulting from:


- **Defects which develop subsequent to delivery**
- **Improper use of the machine**
- **Lack of proper maintenance**
- **Tampering with the machine or where repairs have been effected by the Buyer.**

Seller will not be liable for any injury to persons or things or for the failure of production. With respect to the materials not manufactured by Seller, such as motors and electrical equipment, Seller will grant to Buyer the same warranty Seller receives from its supplier of such materials. Seller does not warrant the compliance of its machines with the laws of the country in which the machines may be installed, nor does it warrant compliance with laws or standards relating to the prevention of accidents or pollution. Adaptation of Seller's machines to the aforesaid laws or standards shall be the responsibility of Buyer who assumes all liability therefore. Buyer shall indemnify and hold Seller harmless against any claim by third parties resulting from failure to comply with the aforesaid laws and standards.

## SAFETY FEATURES


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Read carefully all the instructions before using the machine, pay special attention to those sections where this symbol  appears.

 The F144 automatic case former is equipped with a total safety protection that, when opened, causes the machine stop.

 Never disconnect or dismount the safety devices.

 Make sure they operate properly before starting to work.

 Never operate the machine with the safety limit switches disconnected. They have been planned for your security.

 Always reassemble the protections after any maintenance operation to be made with the machine stopped.

Keep this instructions manual, the information it contains will help you to maintain your machine in good conditions and to work safely.

## NOISE RECORDING (EEC DIRECTIVE EN-392)

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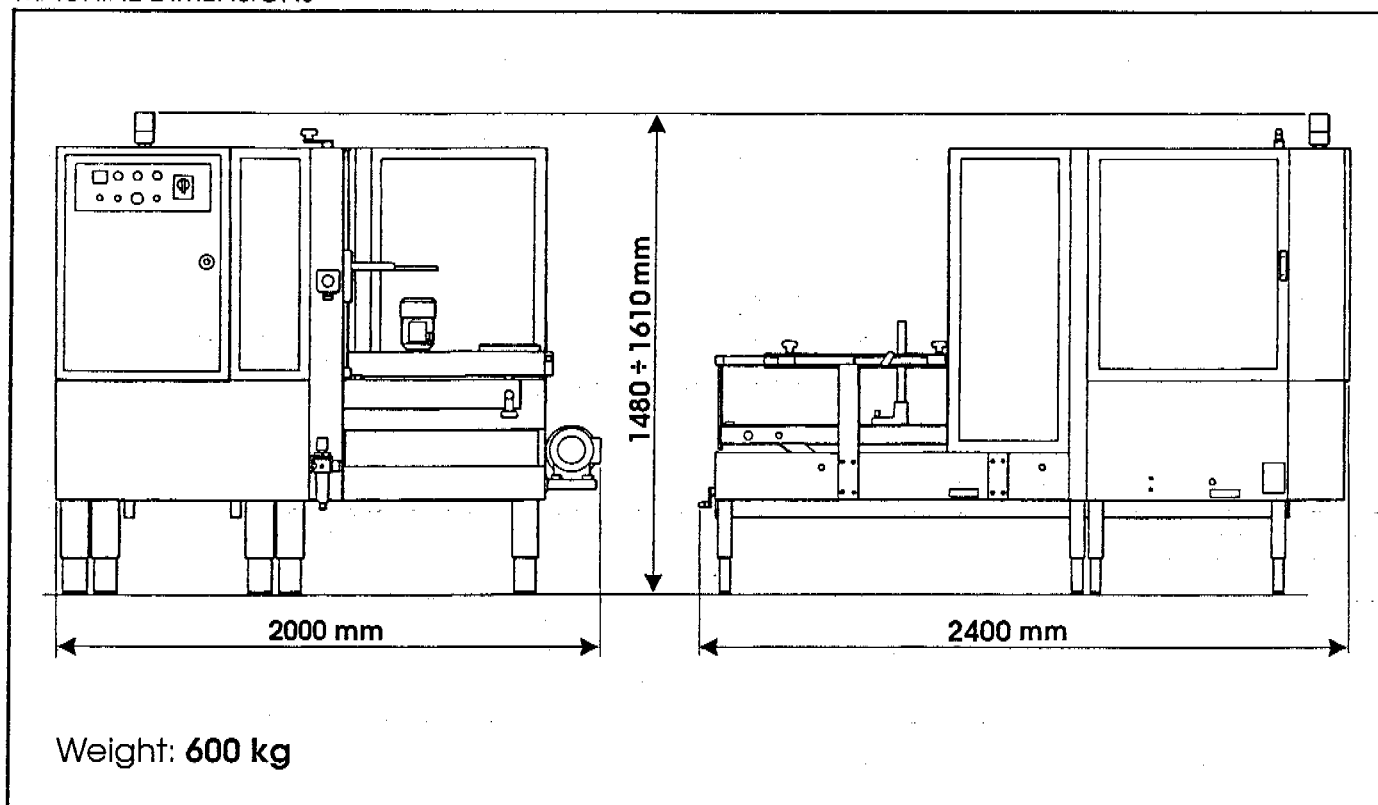
1) Acoustic pressure recorded 1 meter far from the machine: **78 dB**.

2) Acoustic pressure recorded 1,6 meters far from the machine: **78 dB**.

Recording made with an instrument type **SPYRI-MICROPHON**

## TECHNICAL SPECIFICATIONS

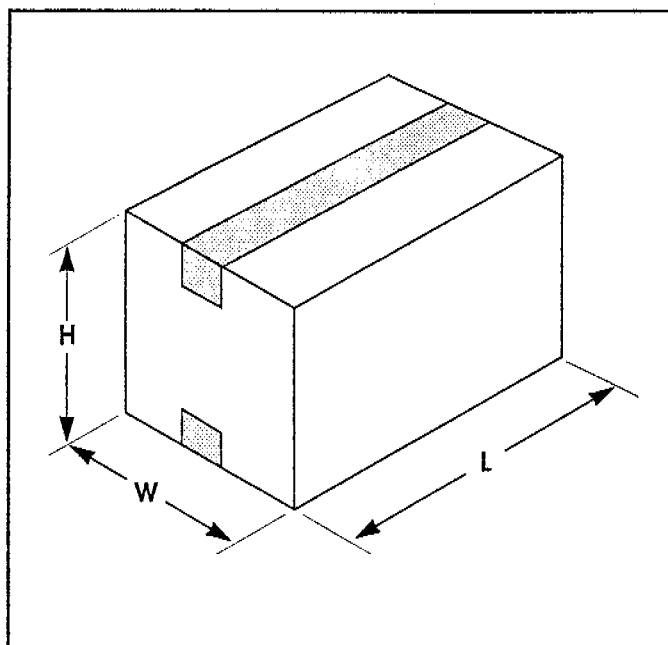
### MACHINE DIMENSIONS



Output: 10/14 cartons/minute.  
Flat box store: 150 boxes  
Power supply: 380 (415)V 50Hz 3F  
4,8 A - 1040 W  
Compressed air: 6 Bar min.

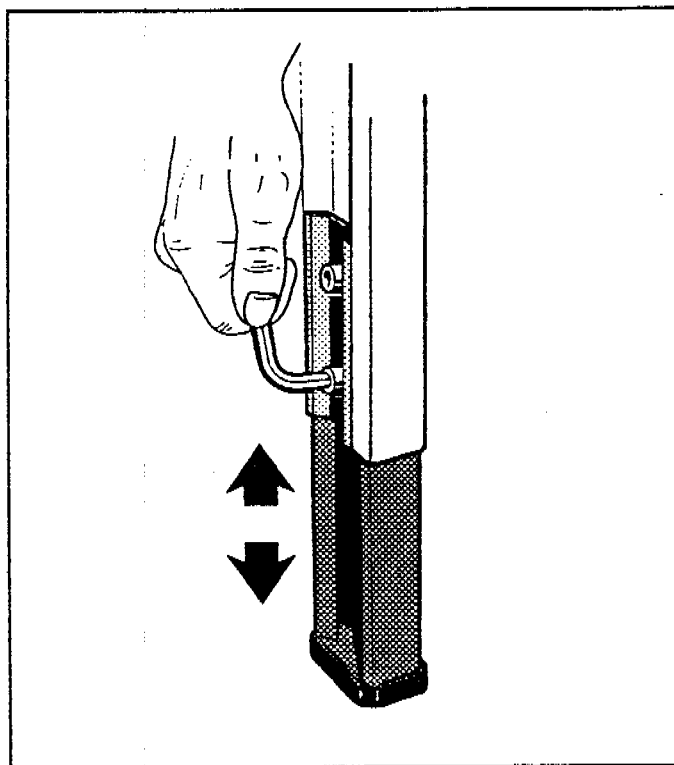
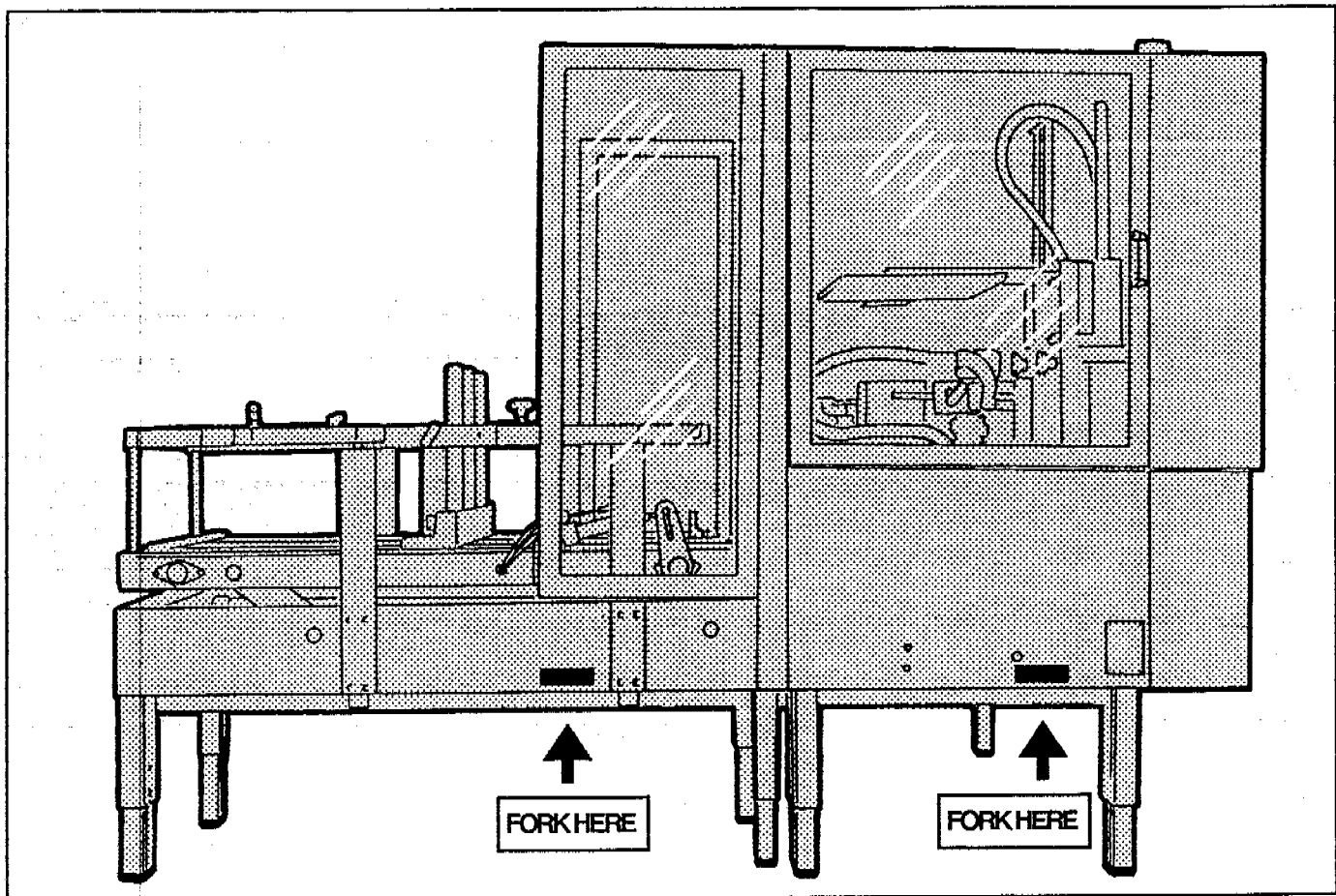
### BOX DIMENSIONS

F144	W	H	L
Min.	150	120	200
Max.	350	500	450



## MACHINE SET UP

### MACHINE HEIGHT ADJUSTMENT



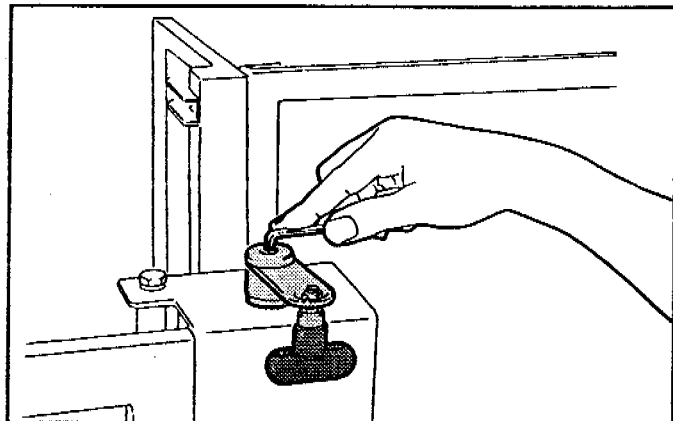
▲  
Raise the machine up by a fork lift, placing the forks where indicated.

Loosen the screws, unthread the leg making reference to the graduated scale. Lock the screws at the desired height. Repeat the operation on all the legs.

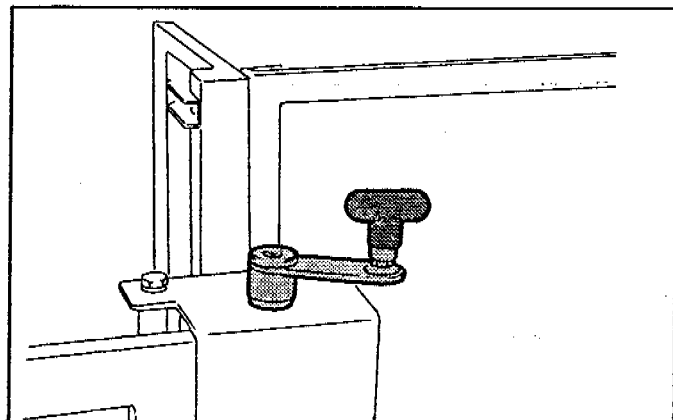
## MACHINE SET UP

### HANDLES POSITIONING

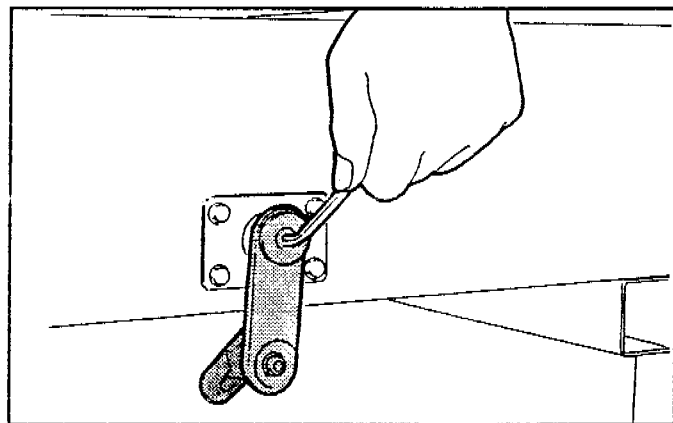
Loosen completely the screw.



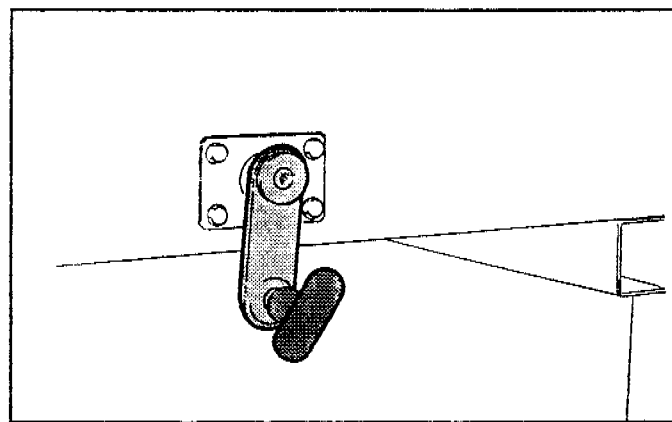
Fit correctly the handle to be used for adjusting the box hold-down plate.



Loosen completely the screw.

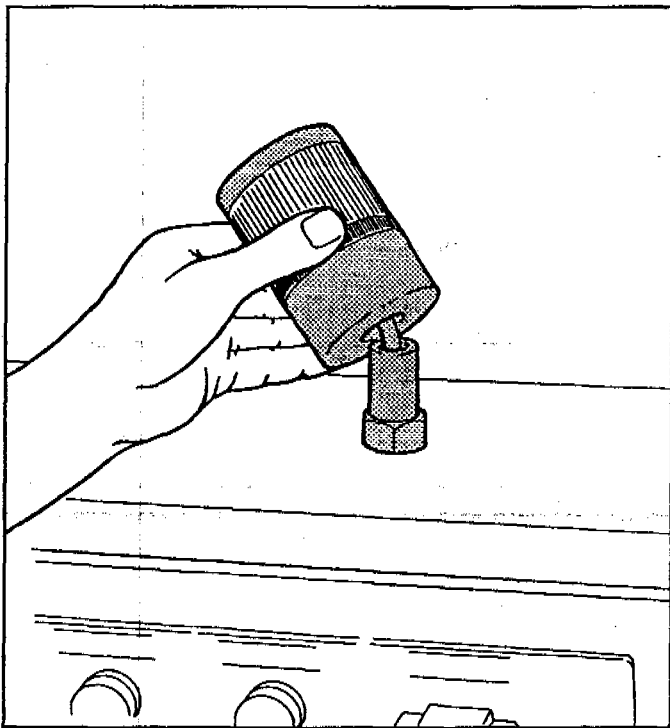


Fit correctly the handle to be used for adjusting the box holder carriage.

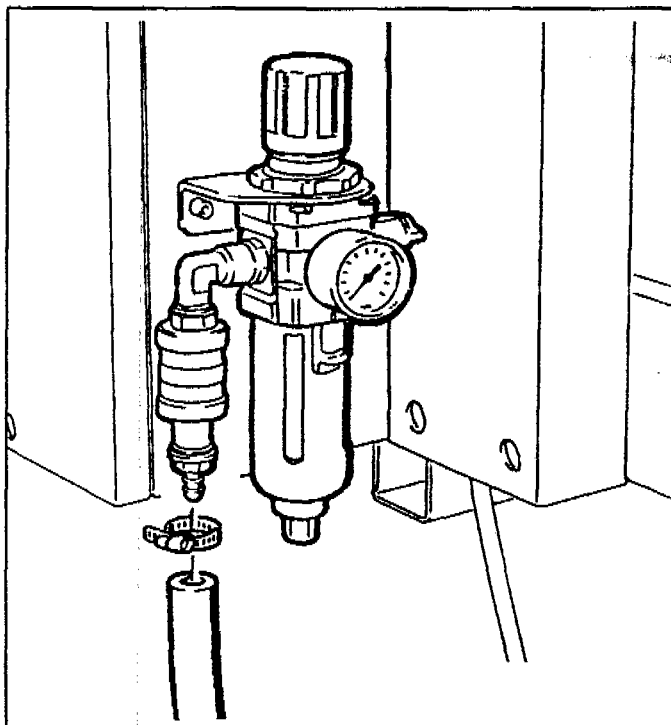


## MACHINE SET UP

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Set the warning light in its housing.

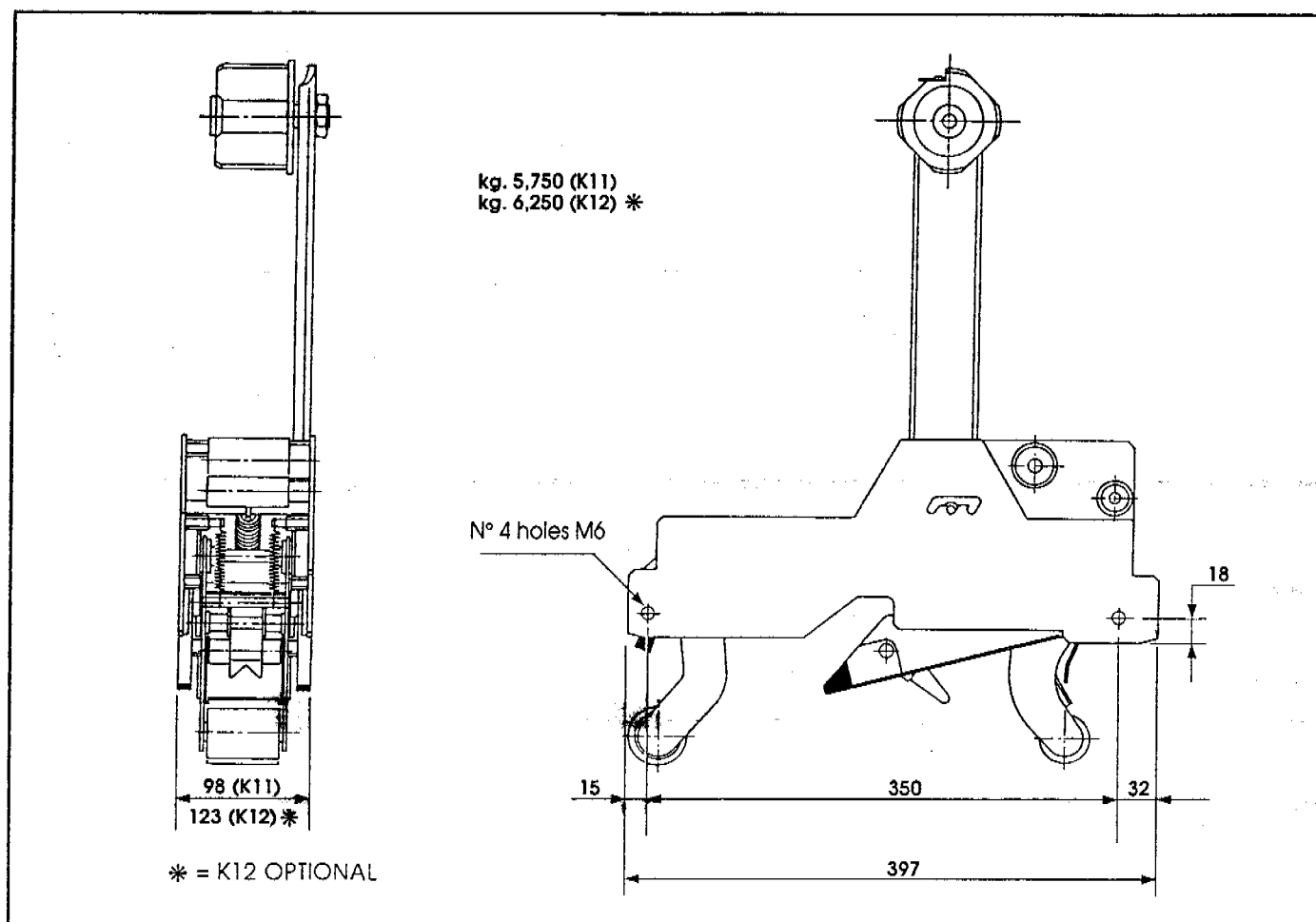


Connect an air tube (8 mm inside diameter) to the union of the ON/OFF valve; lock it with the clamp provided with.

**NOTE:** before connecting the machine to the electric system, make sure that the voltage corresponds to the one indicated on the machine nameplate.

## TAPING HEADS

### DIMENSIONS

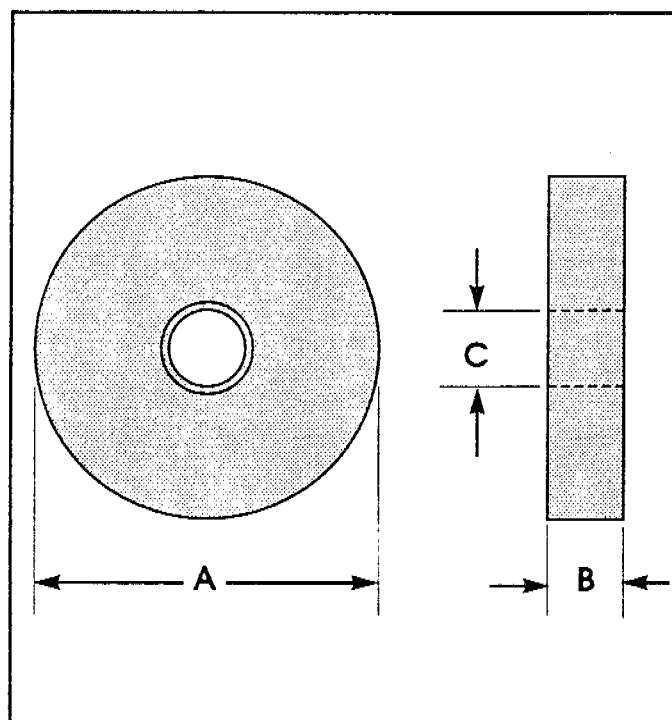


### SELF-ADHESIVE TAPES

PVC  
POLYPROPYLENE  
ADHESIVE PAPER

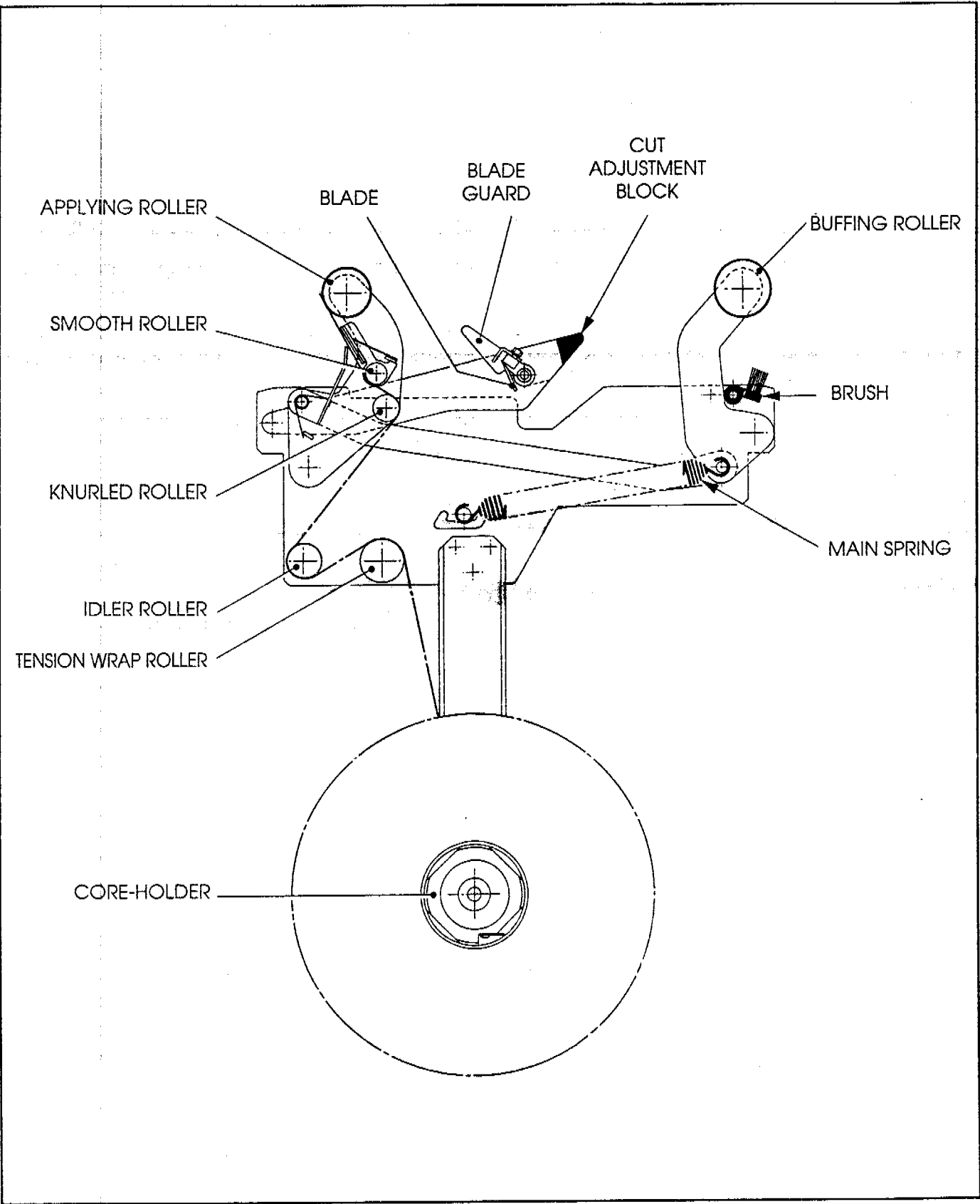
A = 280 mm  
B = 50 mm (K11)  
76 mm (K12)\*  
C = 76 mm

\* = OPTIONAL





TAPING HEAD K11

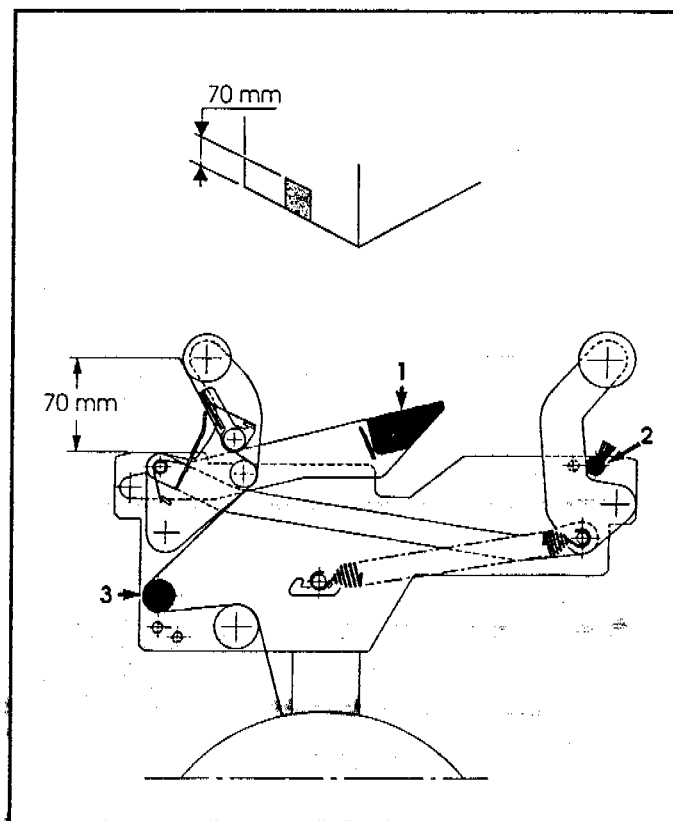


## TAPING HEAD K11

### CHANGE OF THE FRONT LEG LENGTH

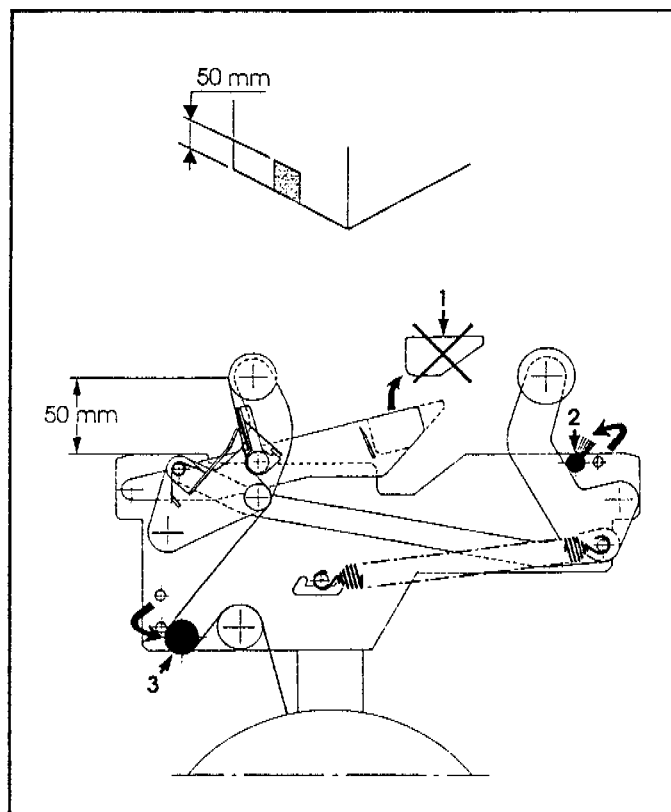
#### 70 MM LEG LENGTH

Set the parts ref. 1-2 and 3 as shown.



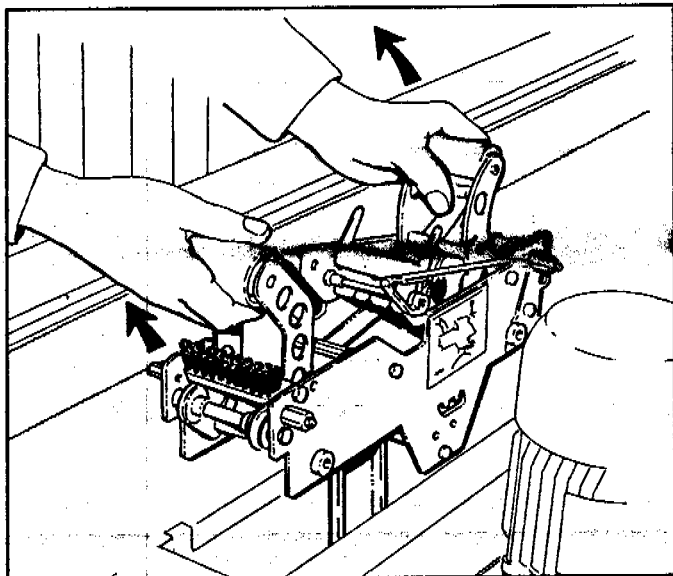
#### 50 MM LEG LENGTH

Take part ref. 1 away and set the parts ref. 2 and 3 as shown.

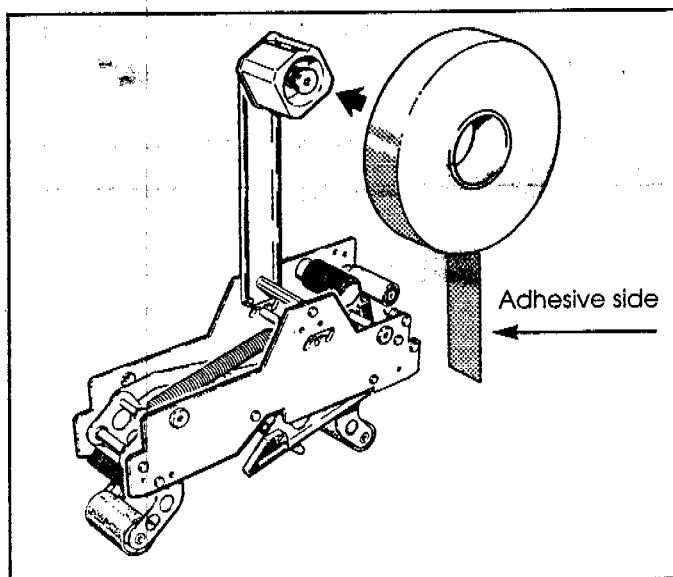


## TAPING HEAD K11

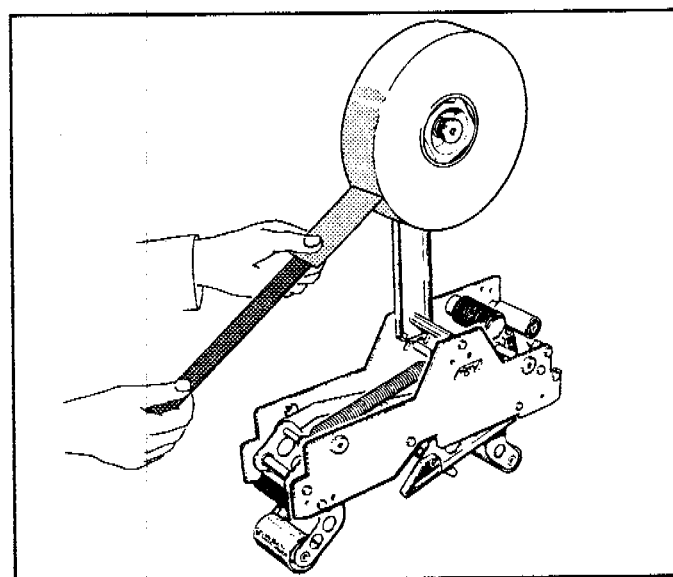
### TAPE THREADING



To make easier the tape threading into the taping head, take the head out as shown on the figure



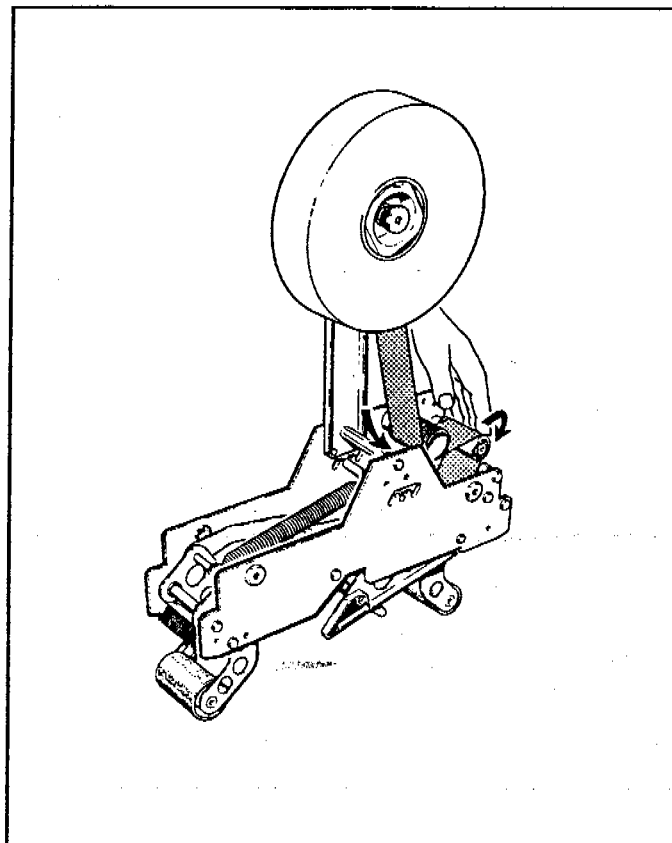
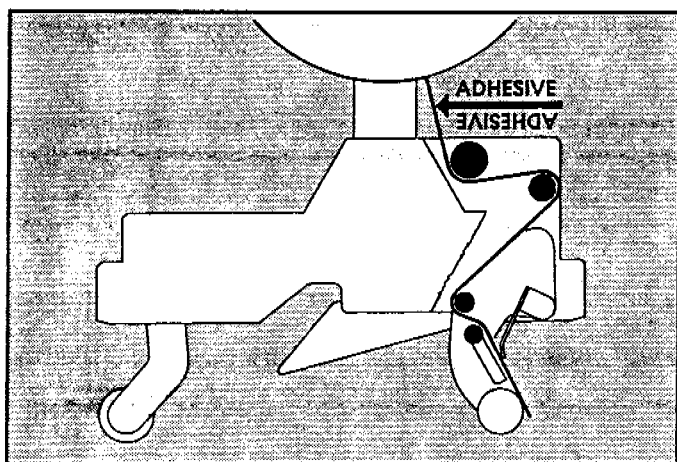
Put the tape roll on the core-holder, paying attention to the correct position of the adhesive side.



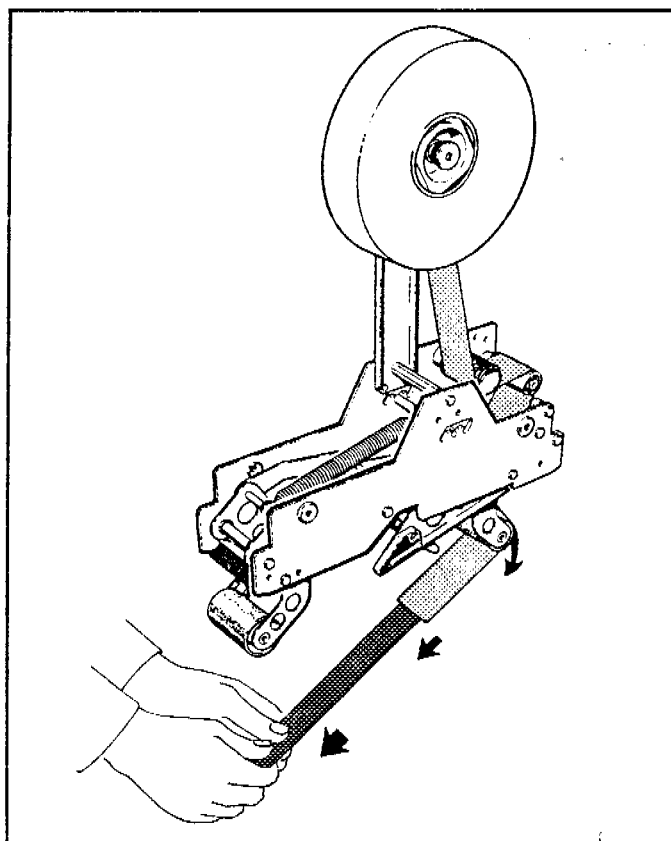
Stick the tape to the threading needle (supplied with the machine)

## TAPING HEAD K11

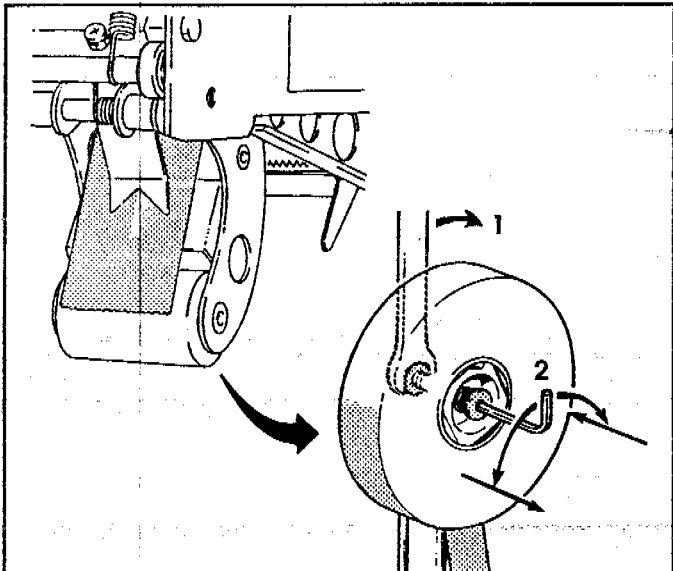
Insert the threading needle and follow the route indicated on the label.



Pull and cut the tape in excess.

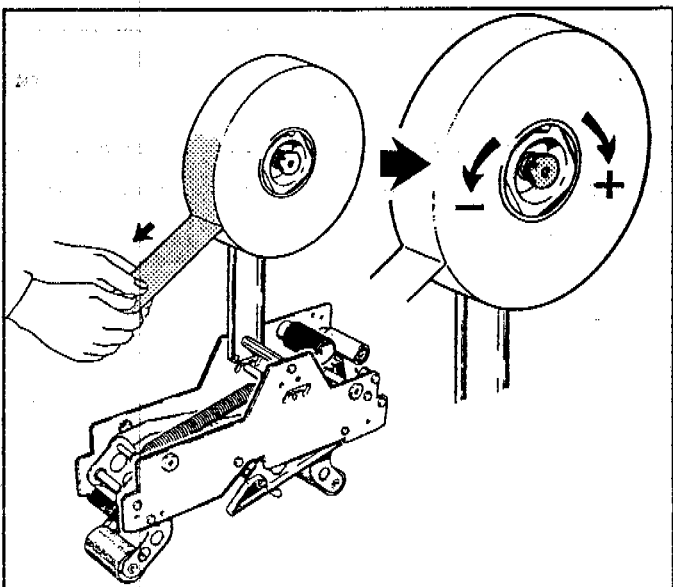


## TAPING HEAD K11



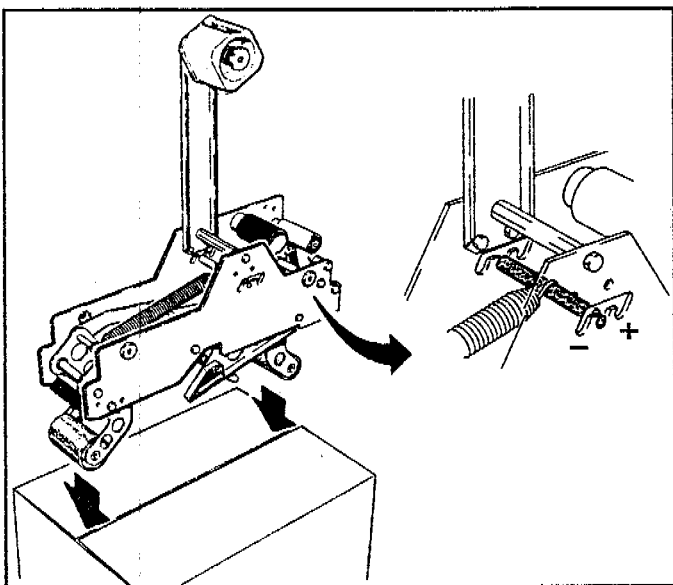
Check the tape centering on the taping head rollers. If it is necessary, to change the tape position operate as follows:

- 1) Loosen the nut 1.
- 2) By an hexagonal key, turn clockwise or anticlockwise the screw 2.
- 3) Lock the nut 1.



Check the tape tensioning:

- free core-holder for PVC
- lightly frictionned core-holder for PP



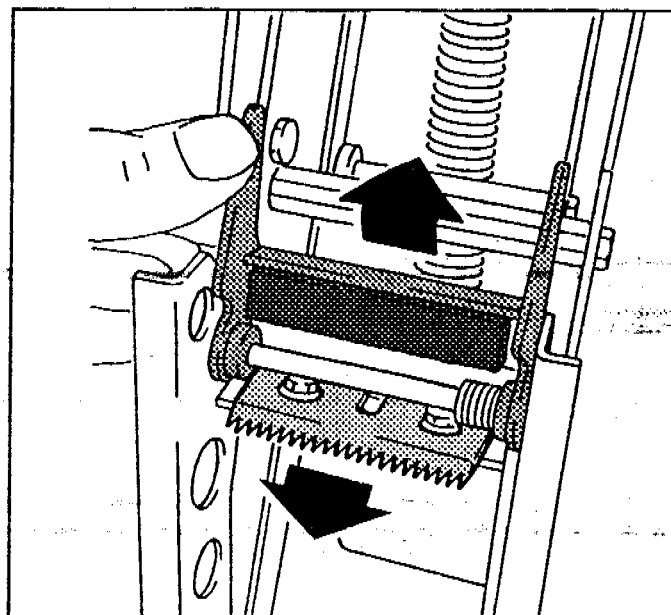
Adjustment of the main spring:

- light boxes - less load on the spring
- heavy boxes - more load on the spring

## TAPING HEAD K11

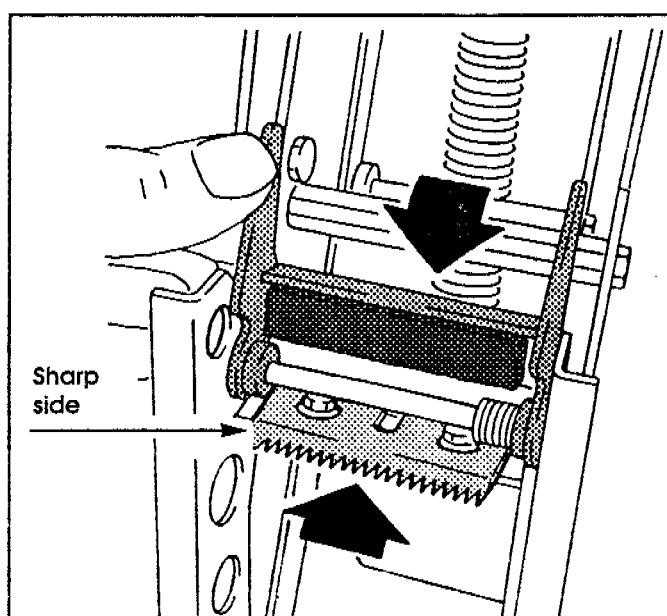
### BLADE REPLACEMENT

- 1) Lift the protection as shown on the figure;
- 2) loosen the screws;
- 3) take the blade out.

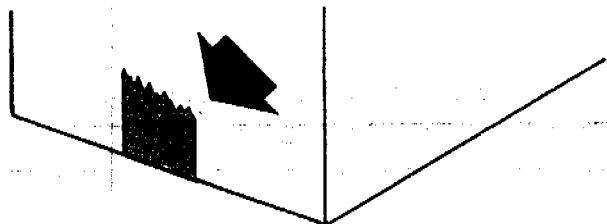


**CAUTION!**  
**SHARP KNIFE**

- 4) Insert the new blade - pay attention to the correct position of the teeth sharpening;
- 5) lock the screws;
- 6) release the protection.



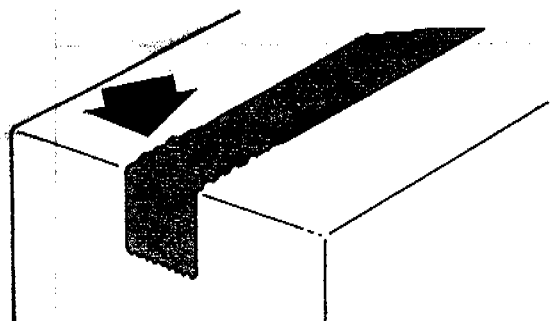
## IRREGULAR CUT



## REMEDIES

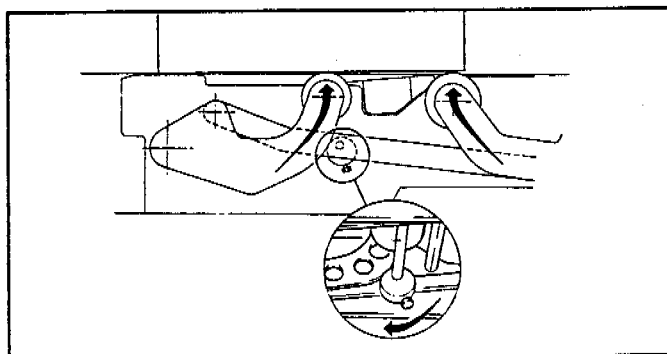
Clean the blade or replace it (see at page 17).

## TAPE CURLING

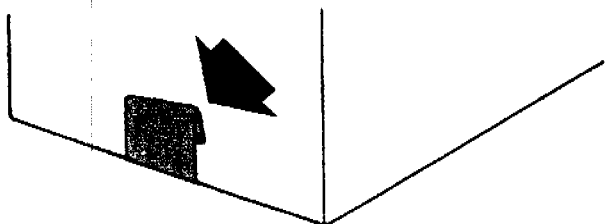


Adjust the box hold-down plate.

Adjust the eccentric.



## TAPE FOLDING

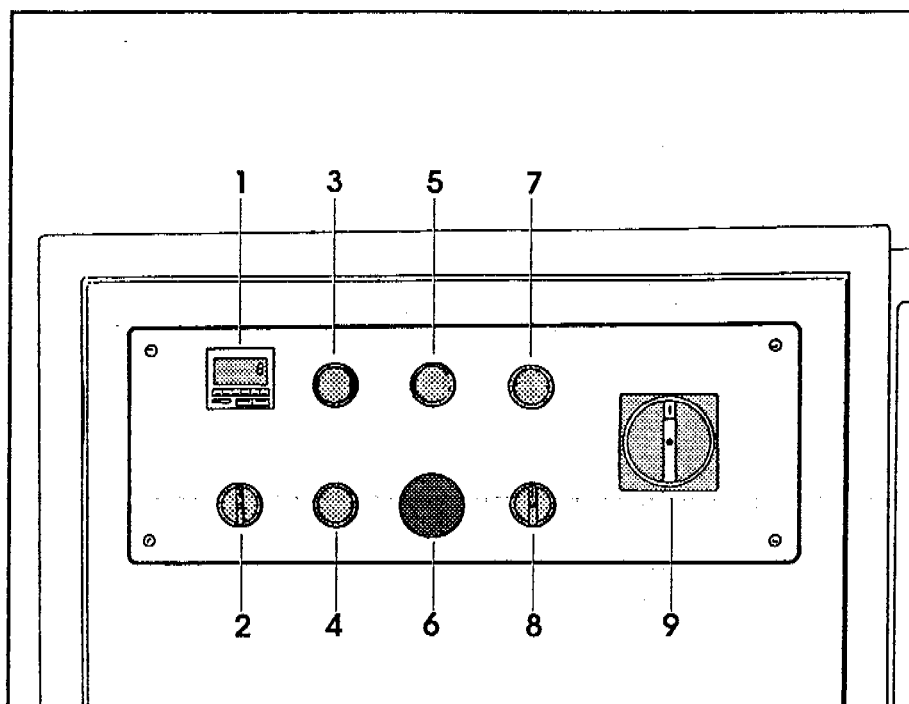


Check that all the rollers turn freely.

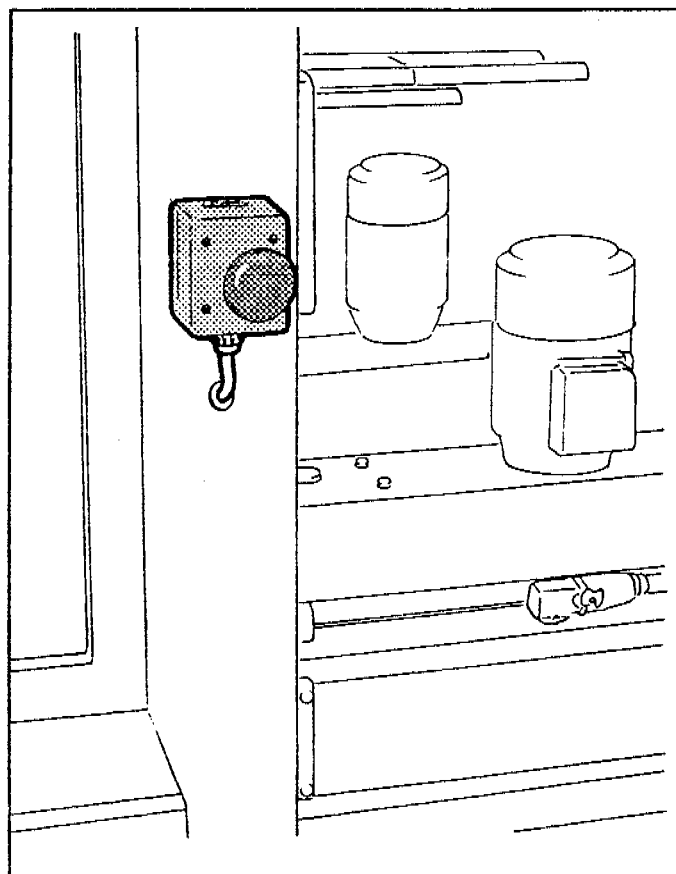
Check that the friction of the core-holder is loosen.

## CONTROLS DESCRIPTION

- 1 - BOX COUNTER/TIMER
- 2 - BOX COUNTER ON/OFF/TIMER
- 3 - AIR-PRESSURE LIGHT
- 4 - START BUTTON
- 5 - TENSION WARNING LIGHT
- 6 - STOP/RESET BUTTON
- 7 - VACUUM PUMP
- 8 - MANUAL/AUTO/STEP TO STEP CYCLE
- 9 - MAIN SWITCH



EMERGENCY STOP (on the right hand side of the machine).





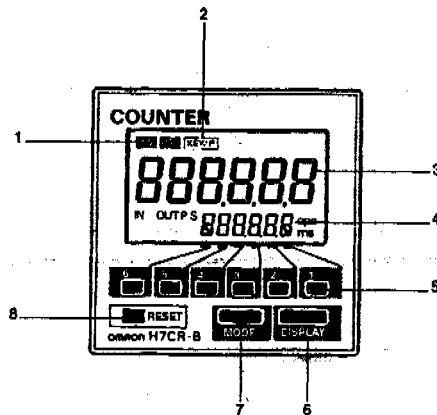
## CONTROLS DESCRIPTION

### BOX COUNTER

#### Front panel

#### Warning lights

1. ON light
2. Buttons inhibition light
3. Actual value.  
Numbers height: 8 mm  
(not significant ZEROS are suppressed)
4. Preset value  
Numbers height: 4 mm  
(It shows the values during the presetting operation).

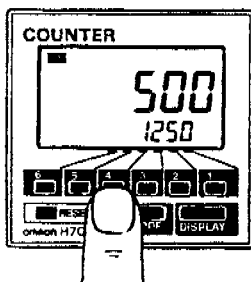


#### Control touch buttons

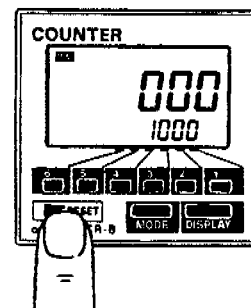
5. Presetting buttons (1 to 6)  
(each button changes the value of the relevant number. Button nr 6 on counters model H7CR-C, -SC can be used to change the preset value from positive to negative).  
The buttons are active during the presetting phase.
6. Visualization button  
(It commutes on the display the preset value.  
For the counters with two preselections, it commutes between the first and the second preselection).
7. Mode button  
(It commutes from RUN to SET).  
It changes the functions in the SET mode.
8. Re-arrangement button  
(It re-arranges the actual value and the exits).

How to change the preset value from 250 to 1250

- ◆ press the presetting button corresponding to the number to be changed.
- ◆ The not significant zeros are not visualized.



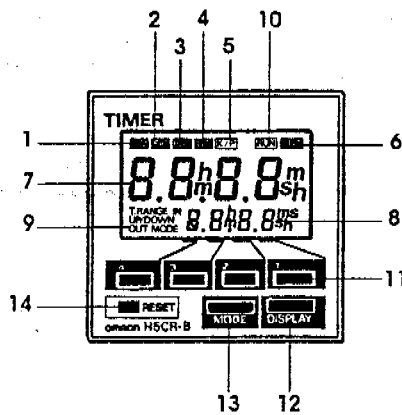
Zero resetting button



## TIMER

### Frontal panel description

1. Power indicator
2. Signal input display
3. Reset display
4. Block display
5. Key protect
6. Out display
7. Present value  
(Characters dimensions: 12mm)  
(neglegible zeros are suppressed)
8. Set value  
(Characters dimensions: 8mm)
9. Run key
10. Mode key



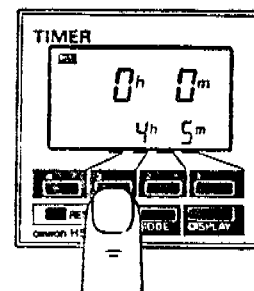
11. Keys from 1 to 4  
(Every key changes the set value of the corresponding digit). Activated during the setting of the values
12. Display key  
(It displays the present set value)
13. Mode key  
(It switches the operation mode from running to programming. It changes the programming values)
14. Reset key  
(It reset timing and outputs)

### Example:

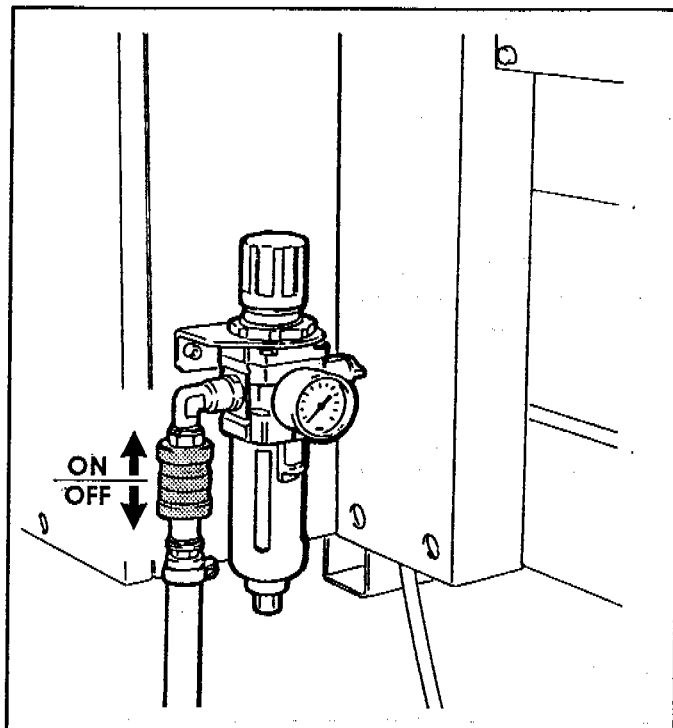
#### Changing the set value

In order to change the set value from 3h. and 5 minutes to 4 h. and 5 minutes, push the key 3 until number 4.

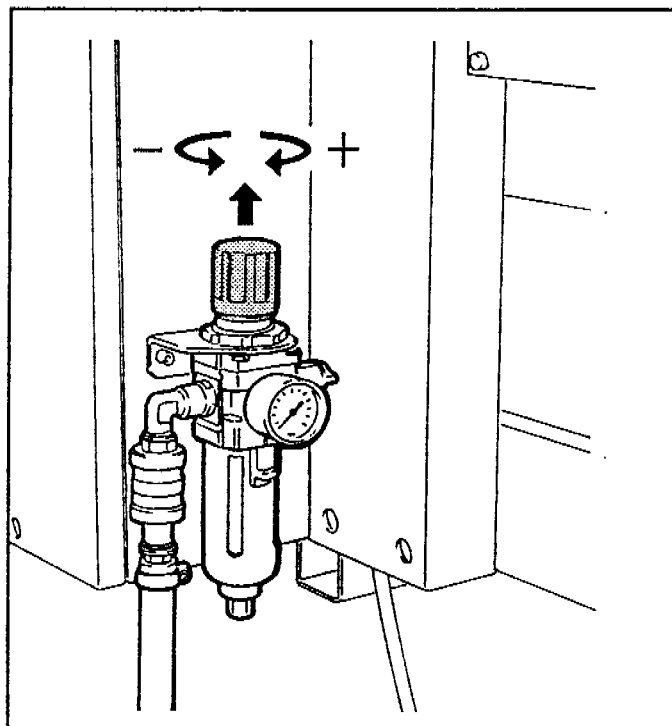
- ◆ When keys from 1 to 4 are pressed the correspondent number increases by 1 unit.
- ◆ Numbers can be changed at random, though an output will result only if the set value is smaller than the present one.
- ◆ Neglegible zeros are suppressed.



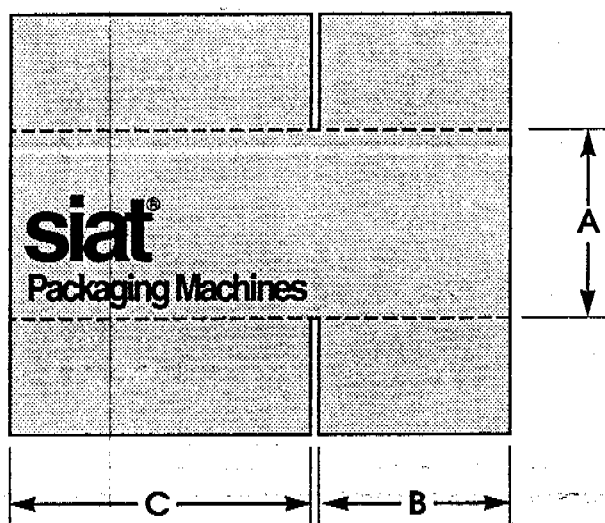
Give air to the circuit, taking the valve in ON position.



Check that the air pressure is the correct one.  
To adjust it, lift the knob and turn it clockwise to  
increase the pressure; anticlockwise to decrease it.



## ADJUSTMENTS



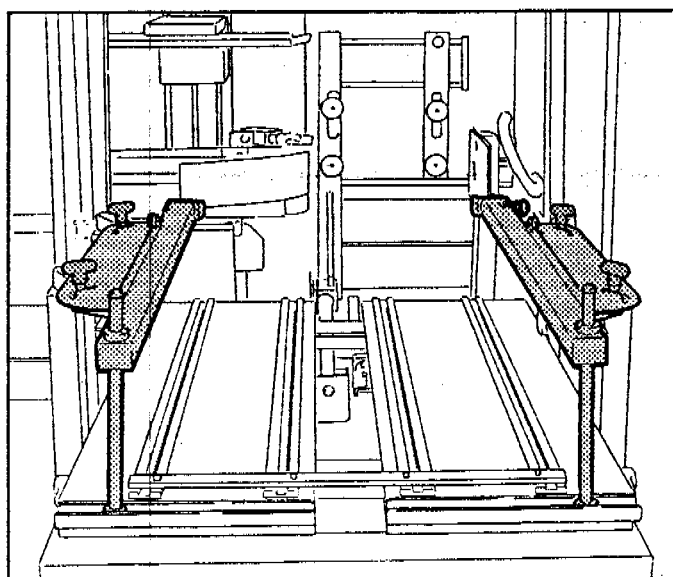
Example of machine adjustment using a box having the following dimensions:

A = 250 mm

B = 300 mm

C = 400 mm

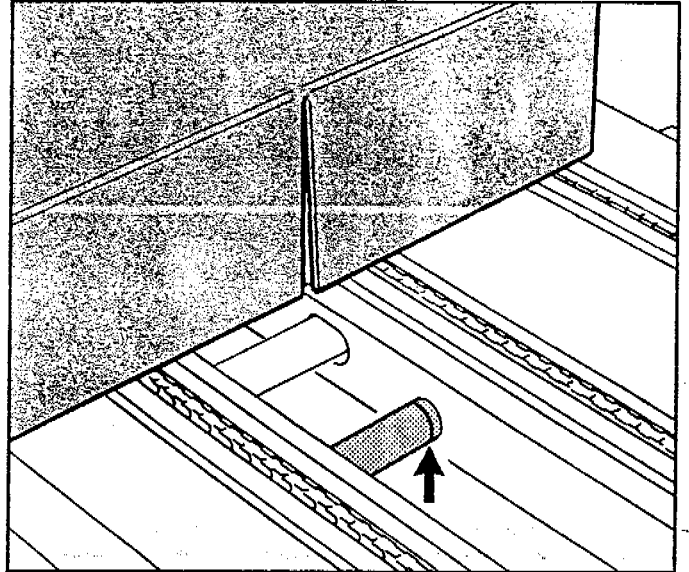
**NOTE:** in case printed boxes are used, to avoid that they come out from the case former with the print overturned, have them printed as shown on figure (C side at the left)



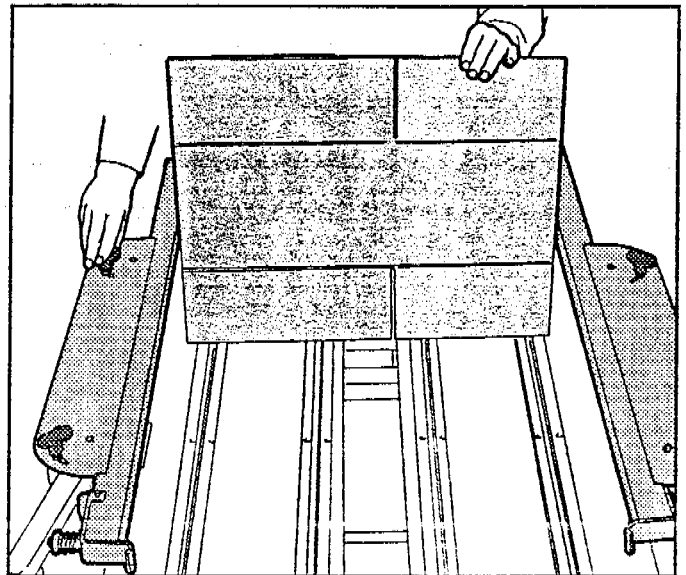
Loosen the 4 knobs and open the guides on the box holder carriage.

## ADJUSTMENTS

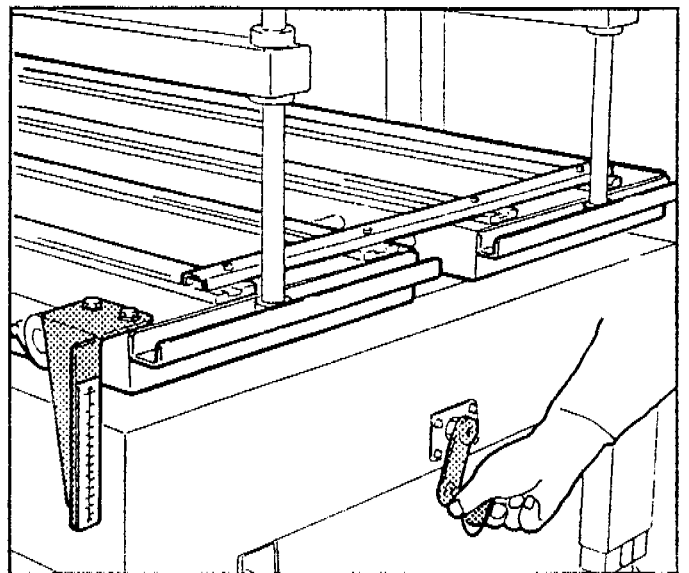
Position the flap cut on the red line printed on the roller.



Keeping the box in position, bring the side guides against the carton and lock the knobs.

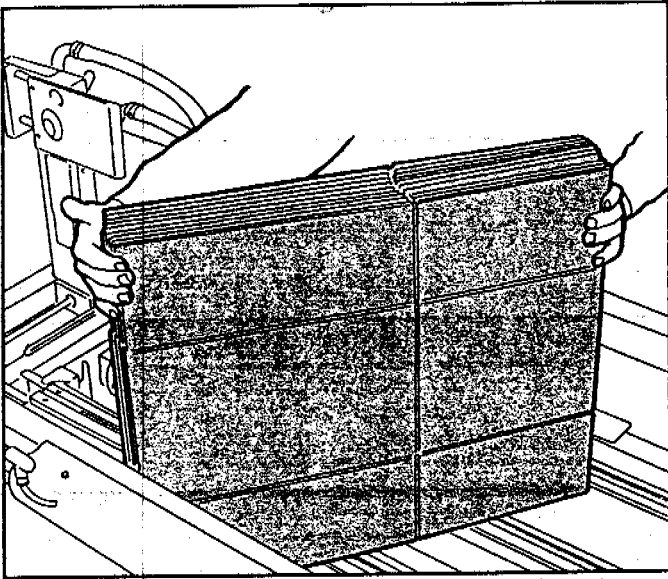


Turning the handle, adjust the height of the box holder carriage taking the box width as reference (es. 300 mm) pay attention to the scale on the right hand side of the carriage.

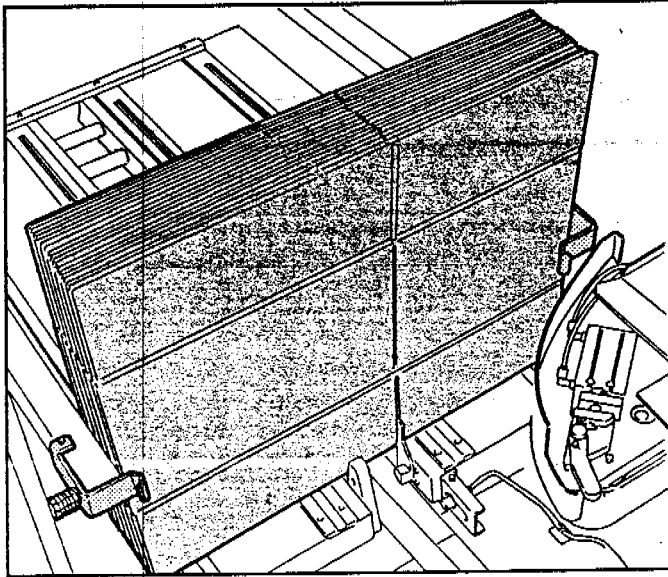


## ADJUSTMENTS

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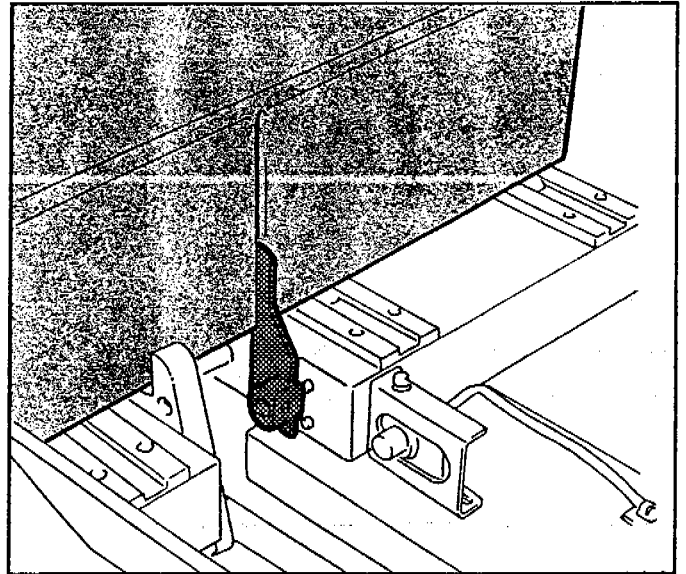
Insert the boxes into the box store.



Push the boxes against the two box stops.

## ADJUSTMENTS

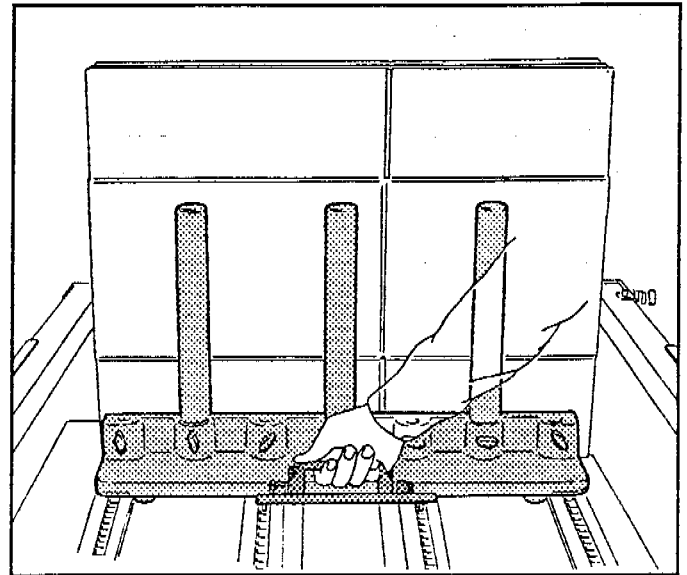
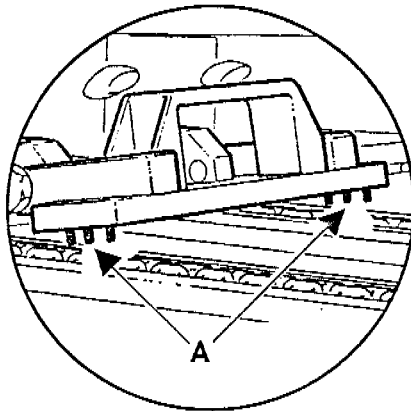
Check that the cut between the flaps is in line with the box opening lever.



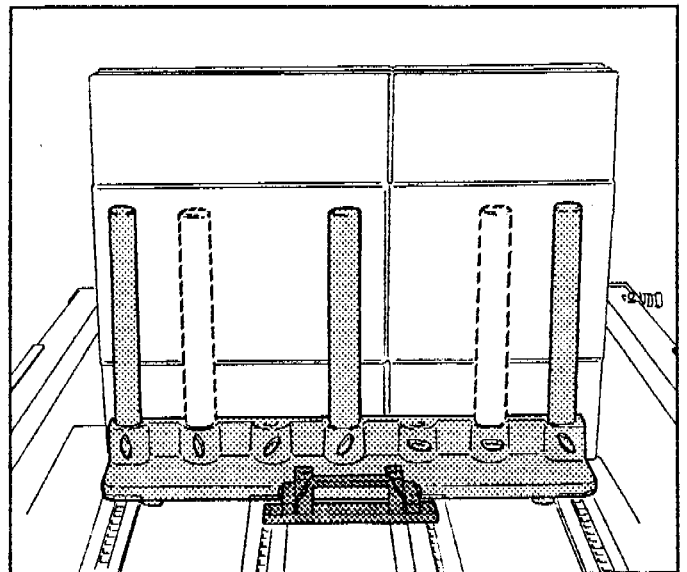
Disconnect the handle from the chain.

Lean the pusher against the back of the boxes.

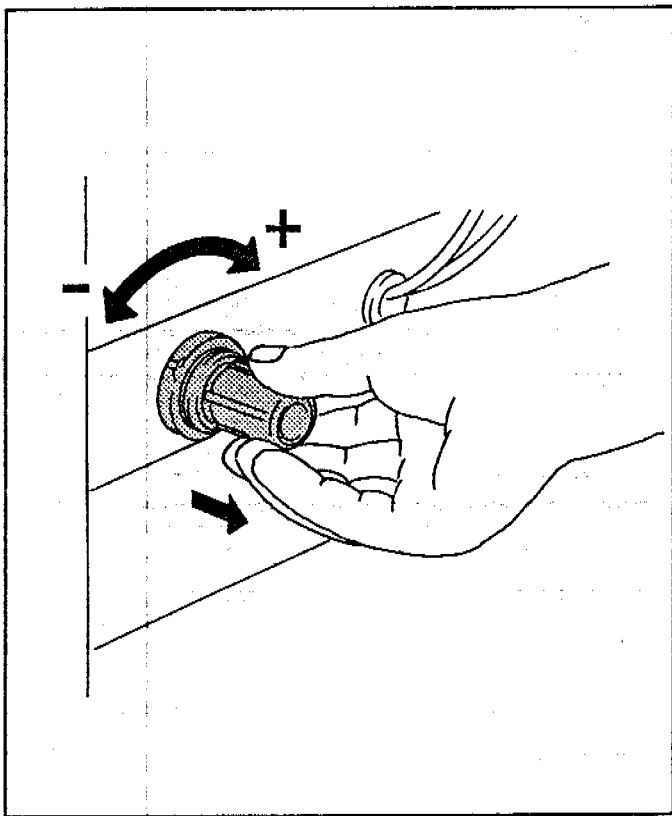
Insert the handle pins A in the chain.



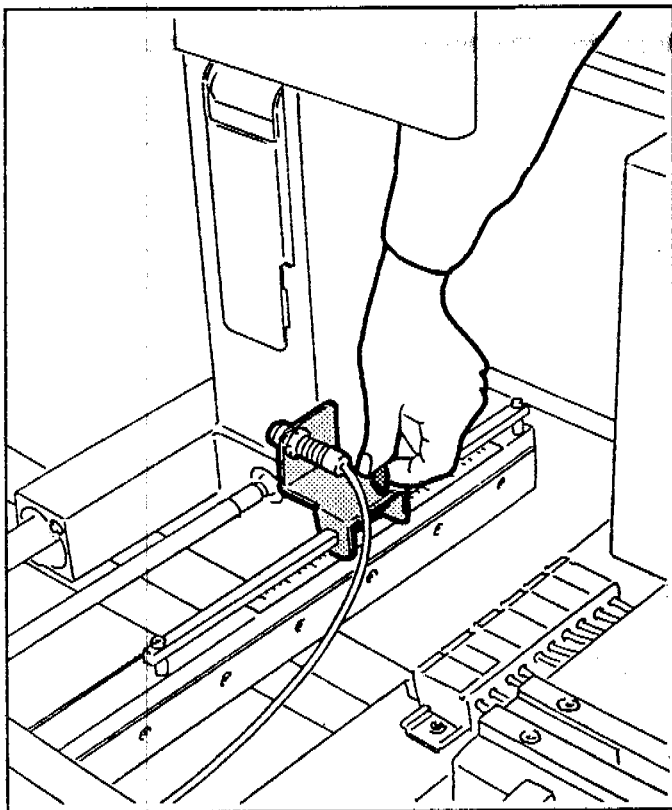
Position the pusher rods according to the box dimensions.



## ADJUSTMENTS



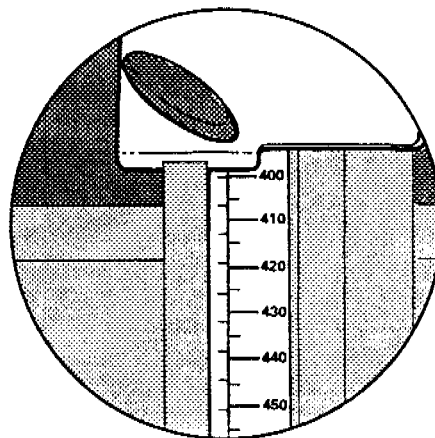
Adjust the pusher carriage pressure on the cartons using the regulator. Disengage the knob and turn it clockwise to increase pressure, anticlockwise to decrease it.



Open the safety guard.

Adjust the position of the photocell (pusher carriage) according to the box length (ex. 400 mm)

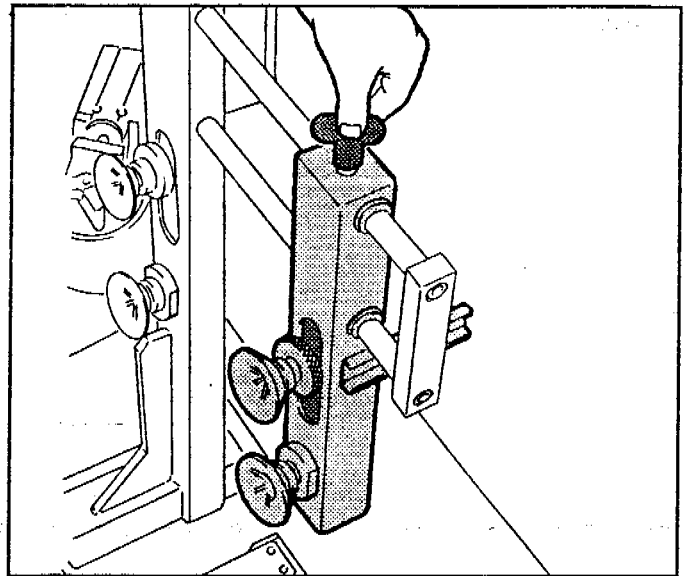
- 1) Loosen the knob.
- 2) Let the photocell slide on the scale and stop it on the desired measure.
- 3) Lock the knob.





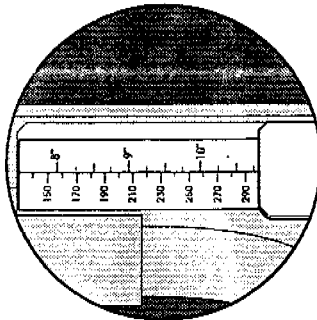
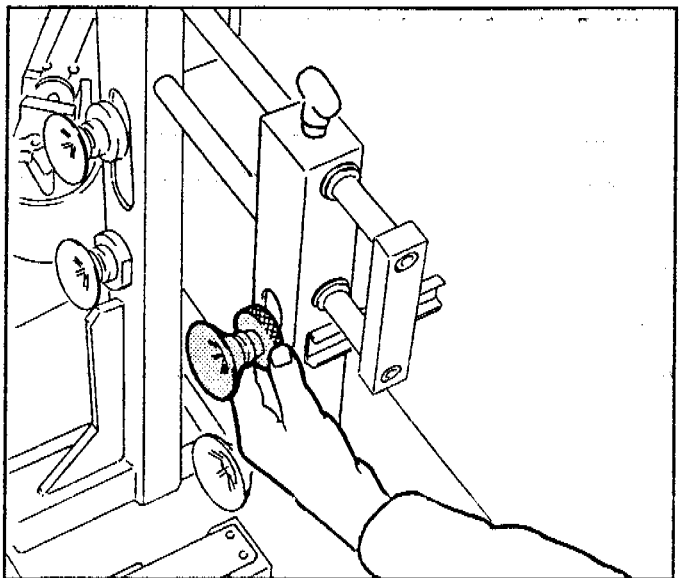
## ADJUSTMENTS

- 1) Loosen the knob.
- 2) Adjust, in the horizontal direction, the position of the suction cups.  
ex: box length = 400 mm  
suction cups = 370 mm max
- 3) Lock the knob.



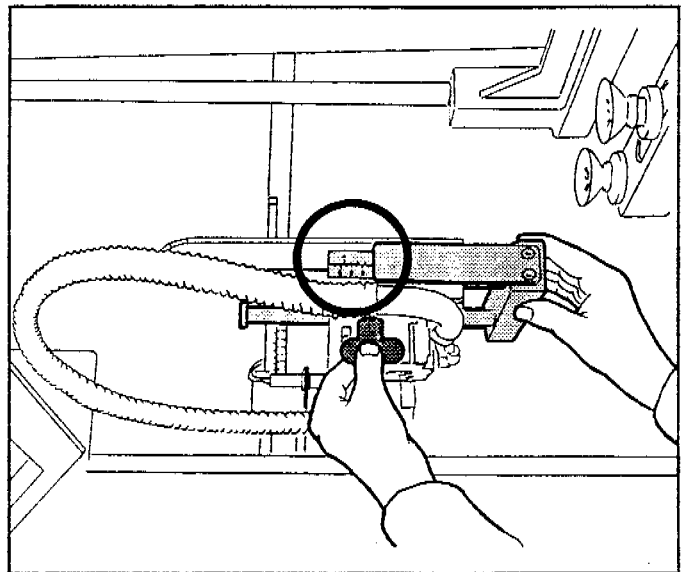
- 1) Loosen the ring nuts.
- 2) Adjust the vertical position of the suction cups.
- 3) Lock the ring nuts.

NOTE: the overall height of the suction cups must not exceed the box height.

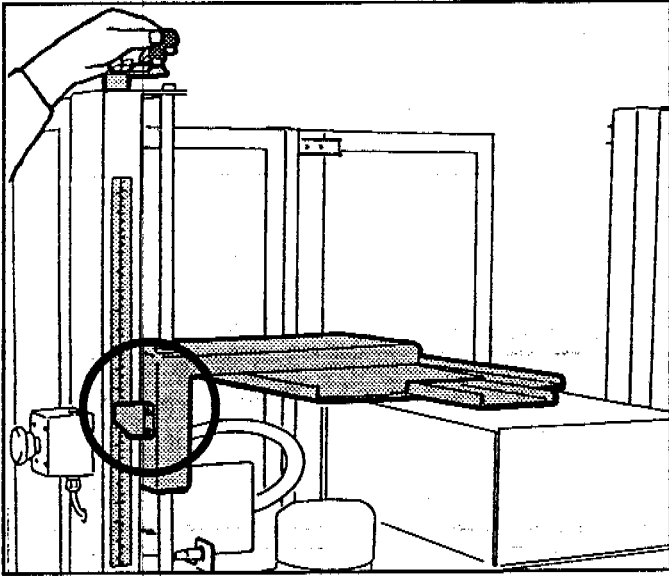


- 1) Loosen the knob.
- 2) Adjust the width of the pusher carriage according to the box width (ex. 300 mm).
- 3) Lock the knob.

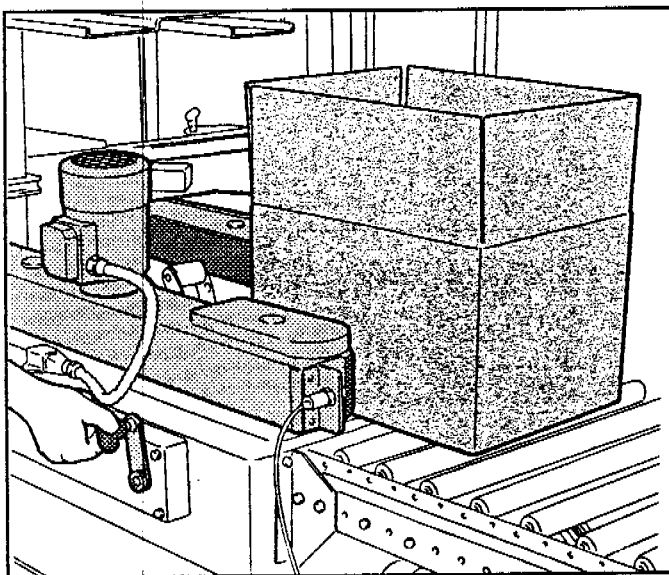
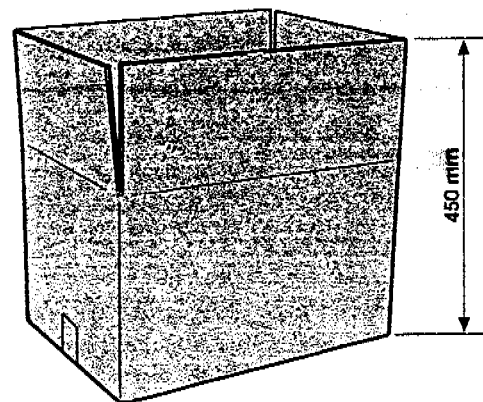
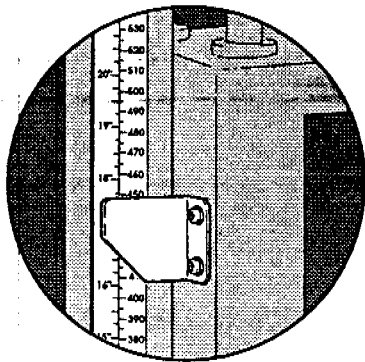
Close the safety guard and press the STOP/RESET button so to position the machine for the new box size.



## ADJUSTMENTS

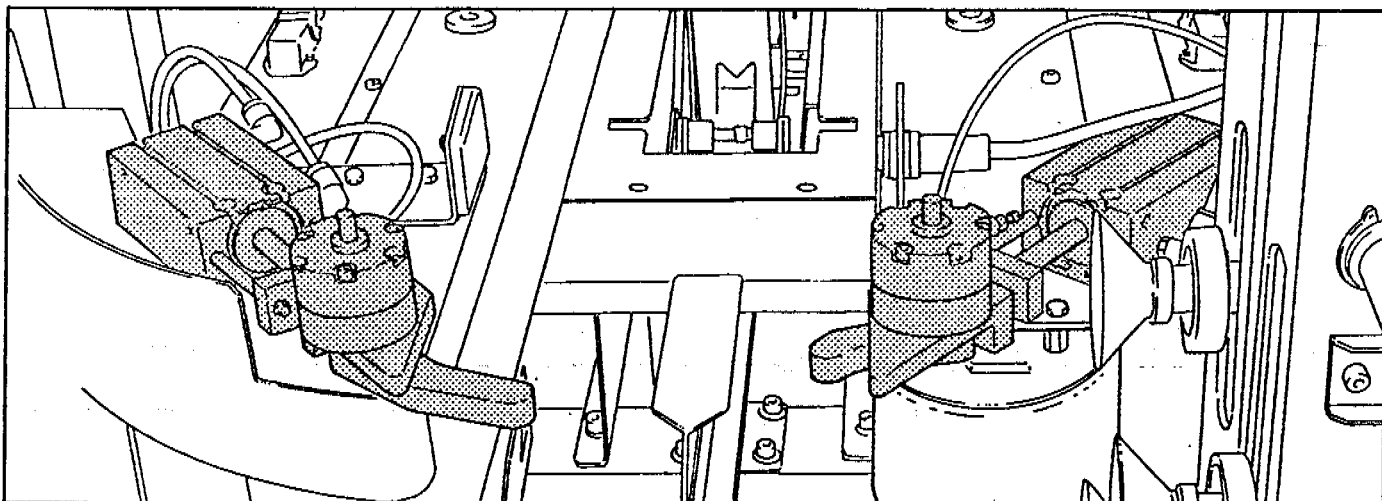


By using the proper handle, position the box hold-down plate according to the box height (ex. 450 mm bottom flaps already folded).

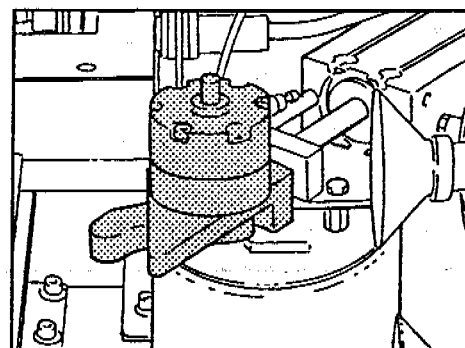
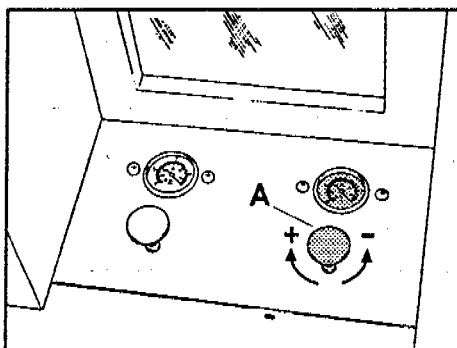


Insert a box and close the side drive belts using the handle.

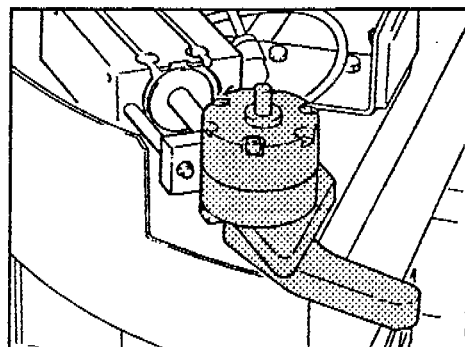
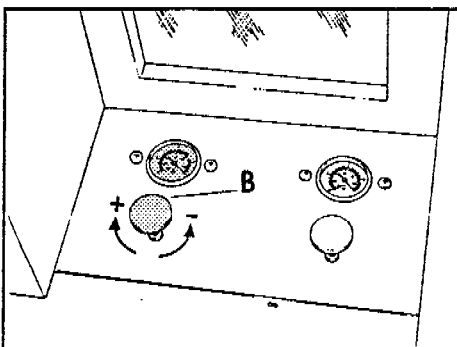
## PRESSURE REGULATION OF THE BOX HOLD LEVERS



- Adjust the pressure of the right box hold lever with the regulator A.



- Adjust the pressure of the left box hold lever with the regulator B.

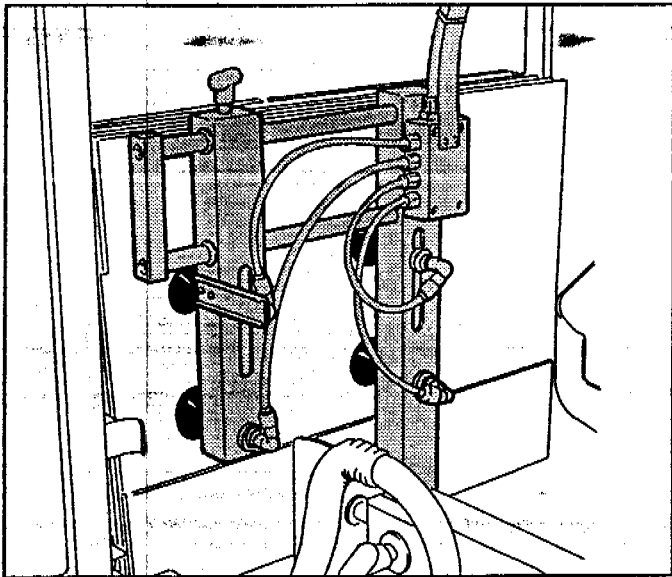


- Reduce the pressure (for light cartons) if the box hold lever gives too much resistance damaging the box, when it is pushed between the side driving belts.
- Increase the pressure (for solid cartons) if the box hold lever doesn't succeed in pushing the box against the pusher, causing the fall of the box and the machine stop.

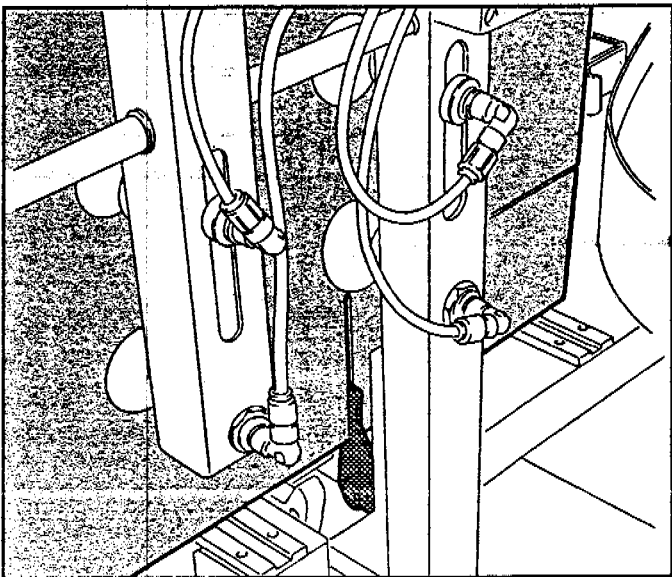
### MANUAL CYCLE

- 1) Set the MAN/AUTO selector in MANUAL position.
- 2) Press the VACUUM PUMP button.
- 3) Press START.
- 4) The machine will make a complete cycle and then a box forming.
- 5) Check that all forming and sealing operations take place in the optimum way and that no further adjustments are required.

## WORKING CYCLE

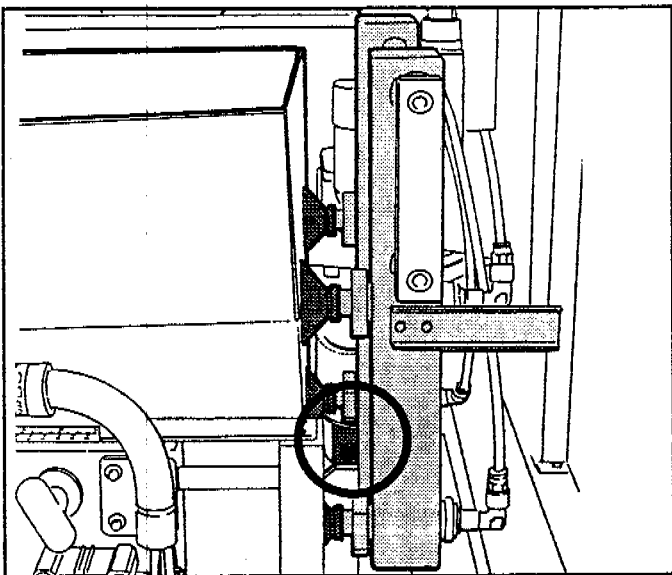


After pressed the START button, the suction cups carriage moves towards the boxes store.

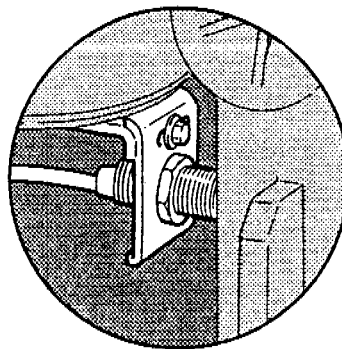


The suction cups resuck the first box.

The carriage drags the box that is automatically opened by the box opening lever.

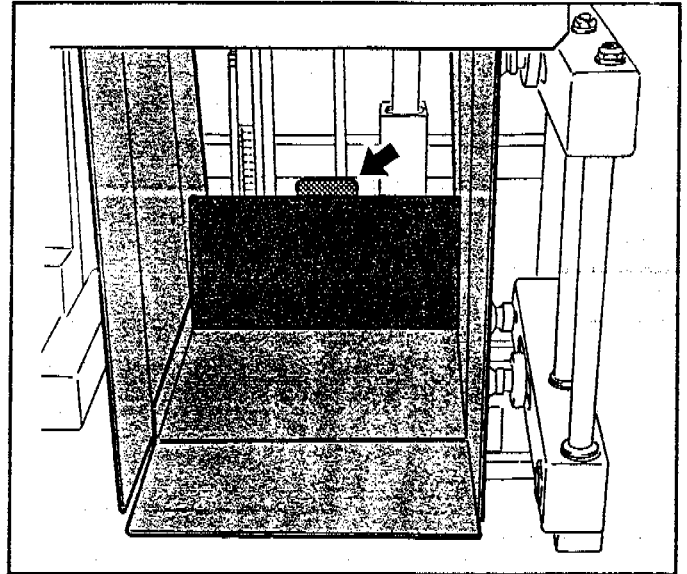


The carriage, with the opened box, stops near the sensor.

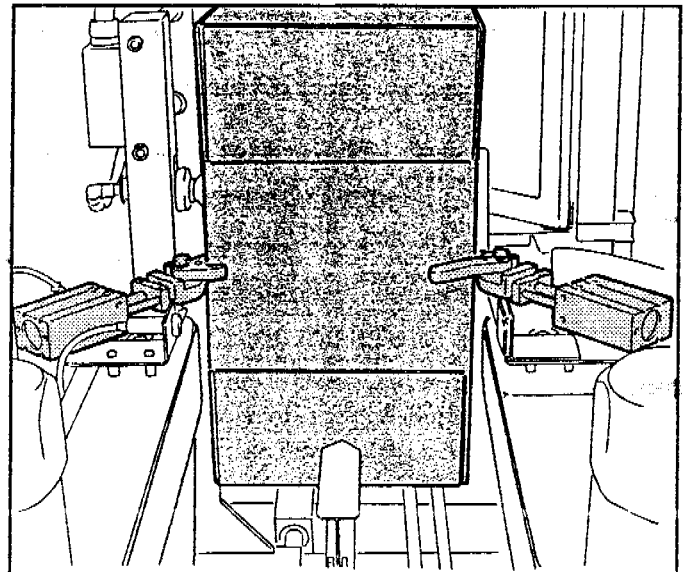


## WORKING CYCLE

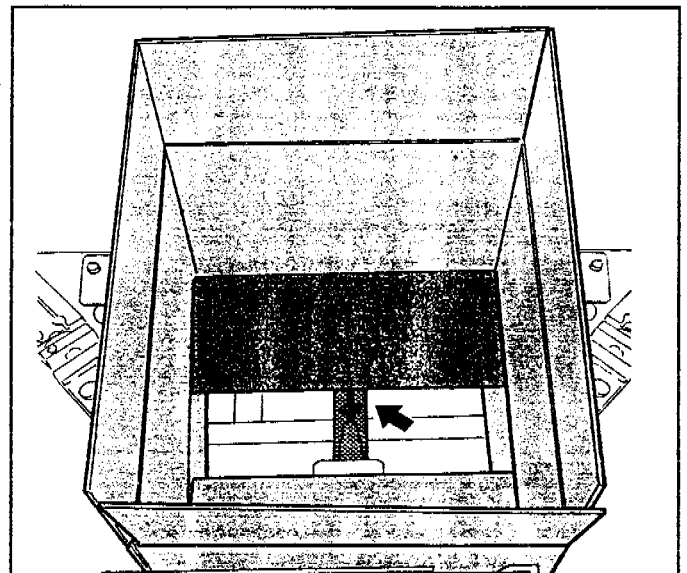
The suction cup mounted on the pusher carriage attracts the box and the bottom paddle folds the rear flap.



After these operations, the two pneumatic cylinders mounted on the side drives take care to put in position the box. The suction cups carriage leaves the box and return in its rest position.

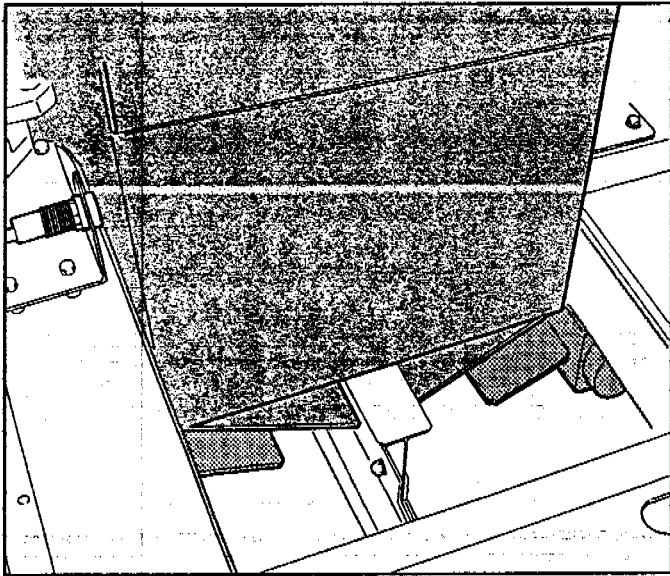


The pusher carriage drives the box between the side belts, while the lever folds the front flap.

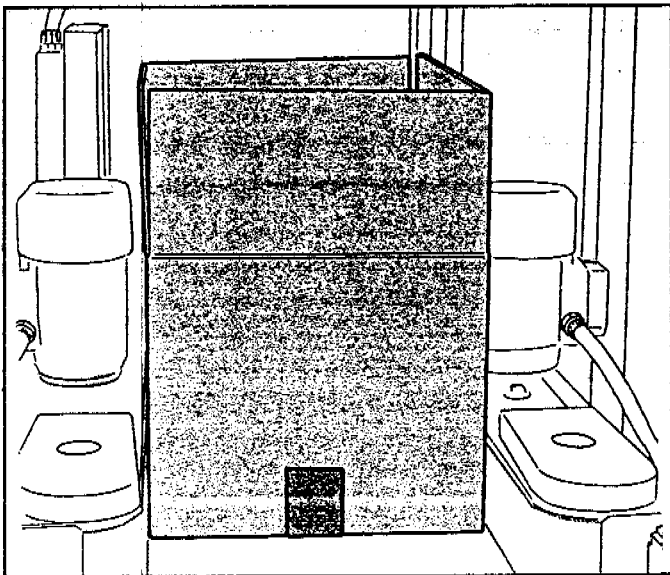


## WORKING CYCLE

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The box darkens the photocell placed above the drive belts and operates the side flap folders.



The box is now formed and it passes through the taping group that applies a U seal of adhesive tape on the bottom part of the box.

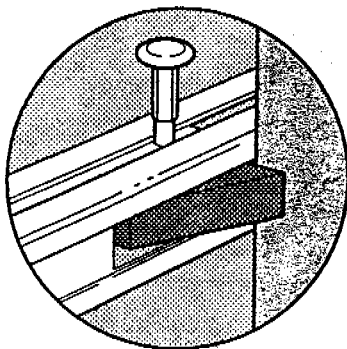
## AUTOMATIC CYCLE

- 1) Set the MAN/AUTO selector in the AUTO position.
- 2) Press the VACUUM PUMP button.
- 3) Press the START button.
- 4) The machine will perform in continuous cycle the box forming and sealing.
- 5) The machine will stop when reached the number preset on the box counter.

## WORKING CYCLE

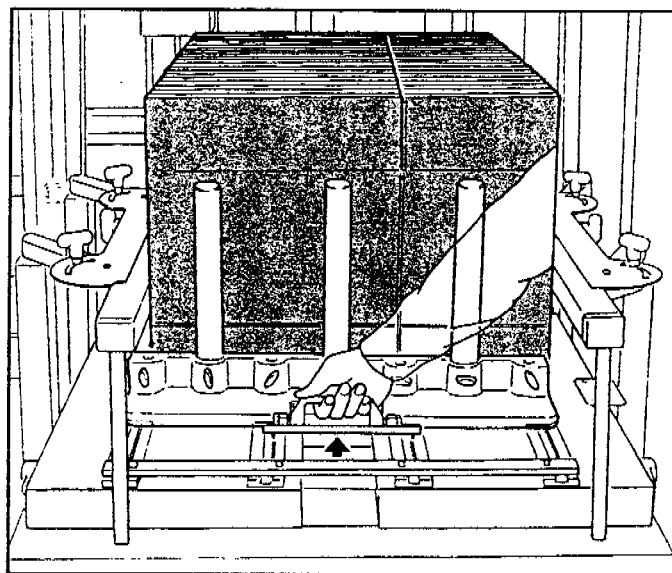
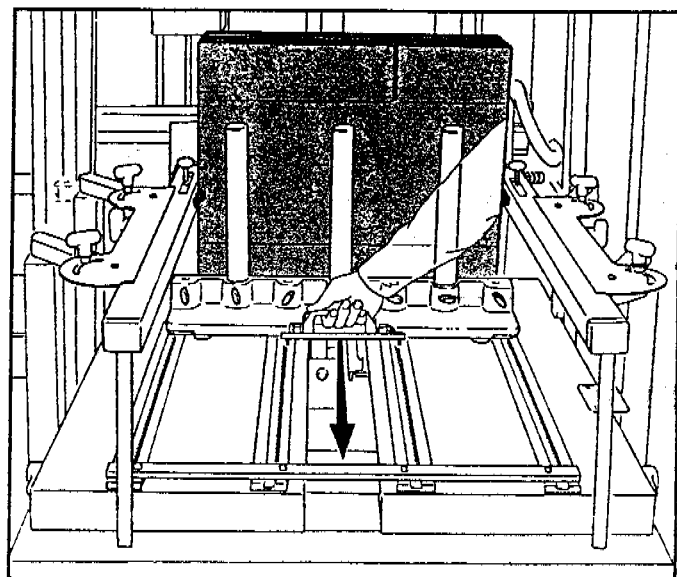
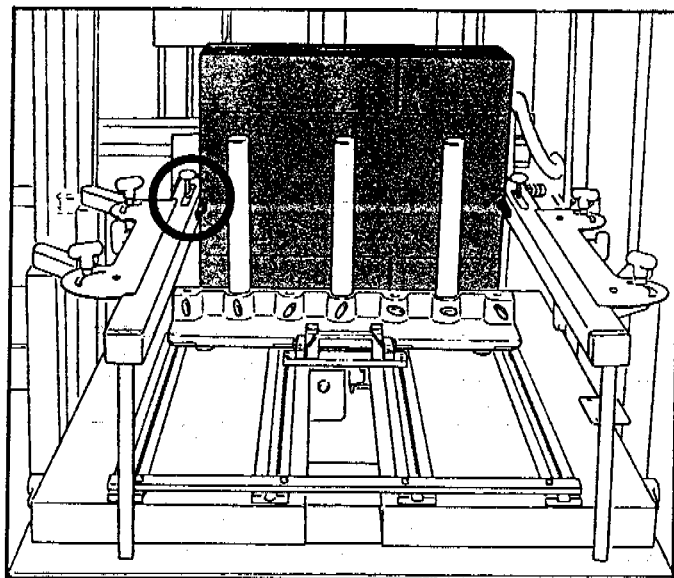
### FILLING OF THE BOX STORE WHILE THE MACHINE IS RUNNING

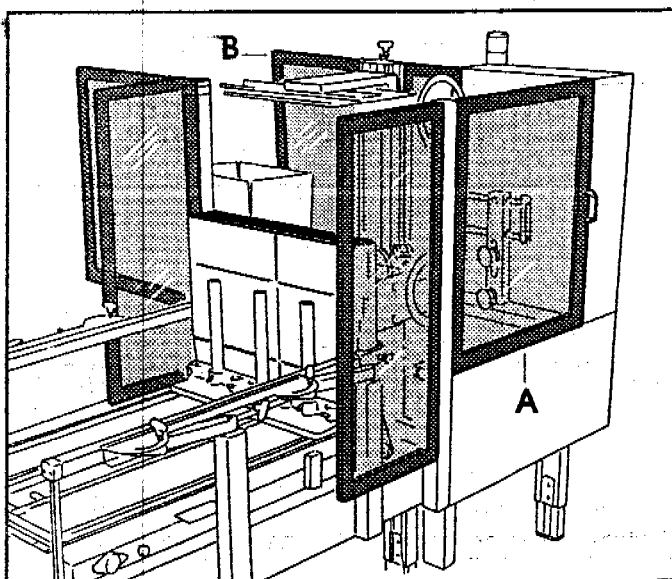
Position the two pushers, mounted on the side guides, behind the boxes.



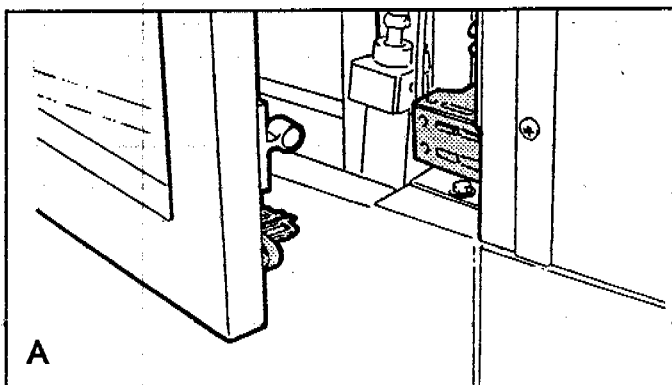
Let the pusher carriage, slide up to the start of the box store

Fill the box store and lean the pusher against the boxes. Insert again the handle pins in the chain.

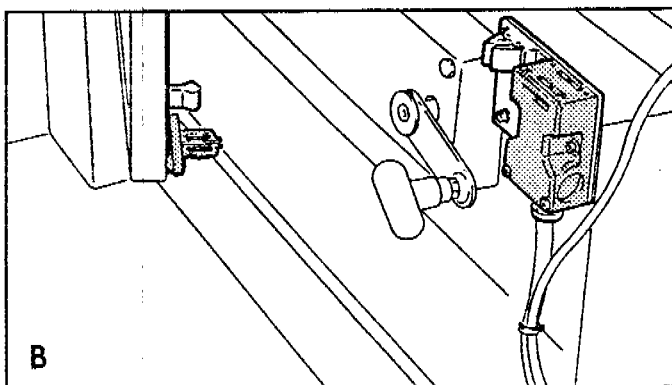




The F144 is fitted with a total safety protection.



When one of the protections is opened, the machine stops. The microswitch mounted on the door disconnects both the electric tension and the compressed air.



If the machine stop happens during the working cycle, before restarting the cycle the following operations are necessary:

- 1) remove the box that is inside the machine;
- 2) close the protection door;
- 3) set the MAN/AUTO selector in MAN position;
- 4) press the STOP/RESET button;
- 5) set the MAN/AUTO selector in AUTO position;
- 6) press the VACUUM PUMP button;
- 7) press the START button.

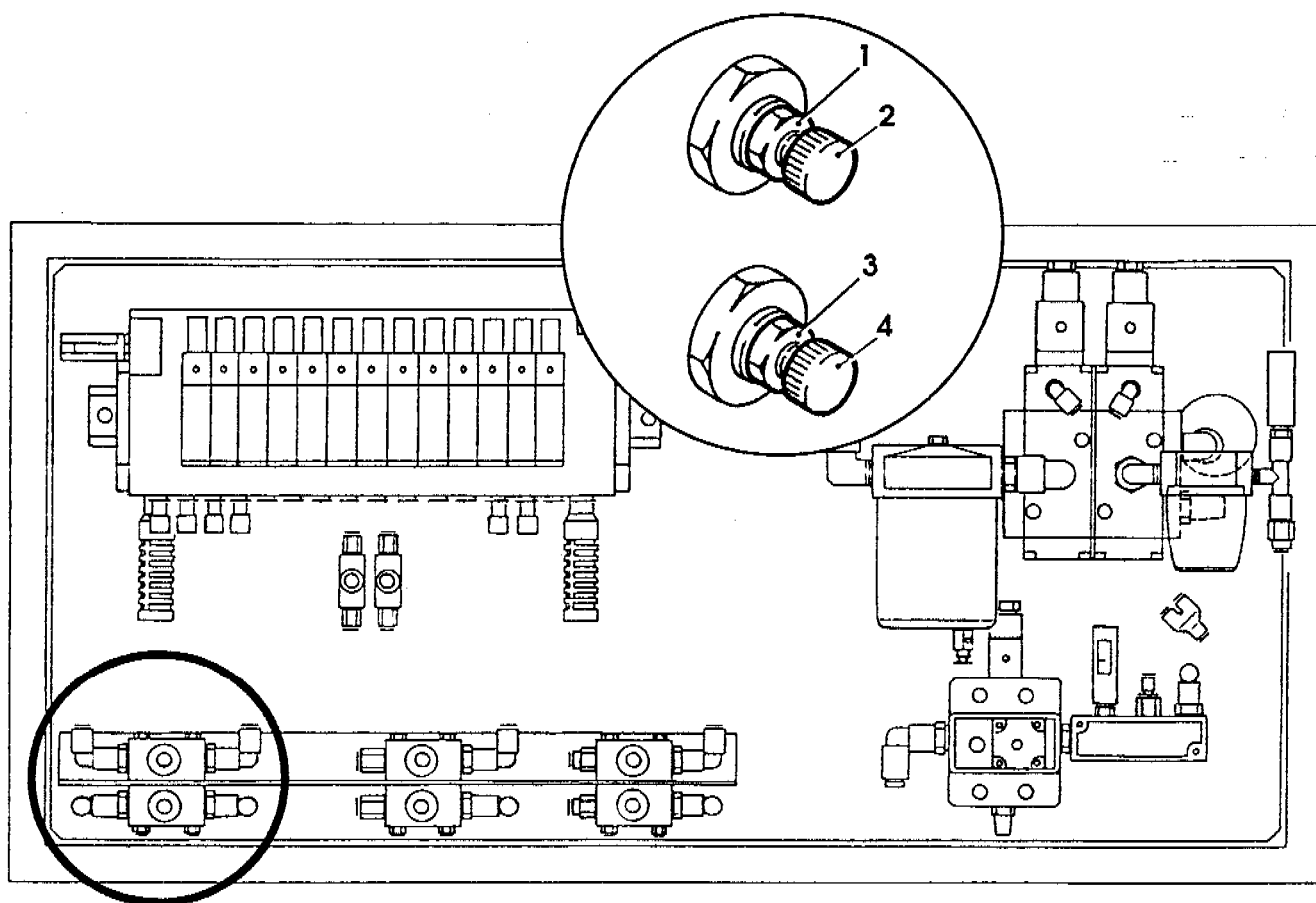


## PNEUMATIC ADJUSTMENTS

The speed of each cylinder is normally set at the factory in the optimal way.  
To change the cylinders speed, remove the cover of the box under the control panel and do the following:

### ADJUSTMENT OF THE SUCTION CUPS CARRIAGE SPEED

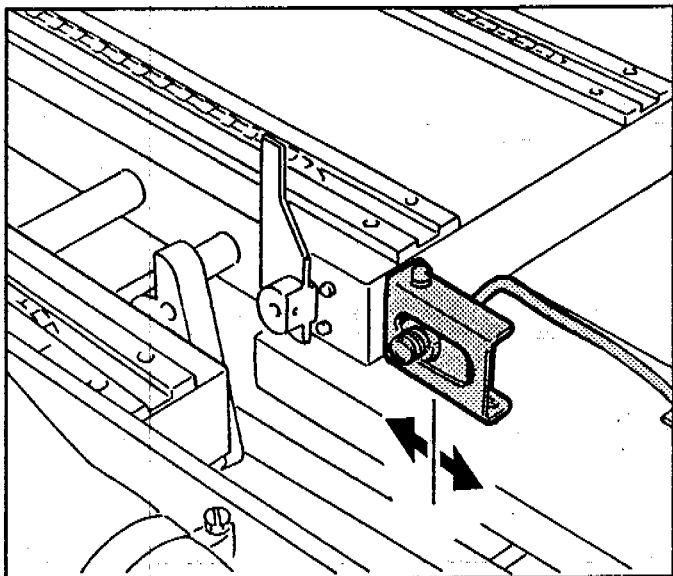
- 1) Loosen the locking nut 1;
- 2) Turn the knob 2 clockwise to decrease the going speed, anticlockwise to increase this speed.
- 3) Lock the nut 1;
- 4) Loosen the nut 3;
- 5) Turn the knob 4 clockwise to decrease the return speed, anticlockwise to increase this speed.
- 6) Lock the nut 3.



## PNEUMATIC ADJUSTMENTS

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After changed the suction cups carriage speed, it is necessary to check the position of the sensors nr. 1 and nr. 2.

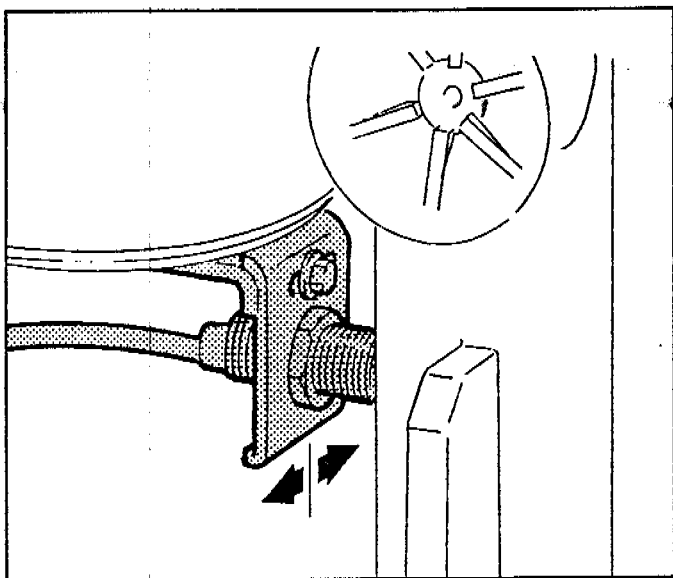


### SENSOR NR. 1

It gives the stop position of the carriage during the going.

If the speed has been increased, it is necessary to advance the stop point, moving the sensor towards right.

If the speed has been decreased, it is necessary to postpone the stop point, moving the sensor towards left.



### SENSOR NR. 2

It gives the stop position of the carriage during the return.

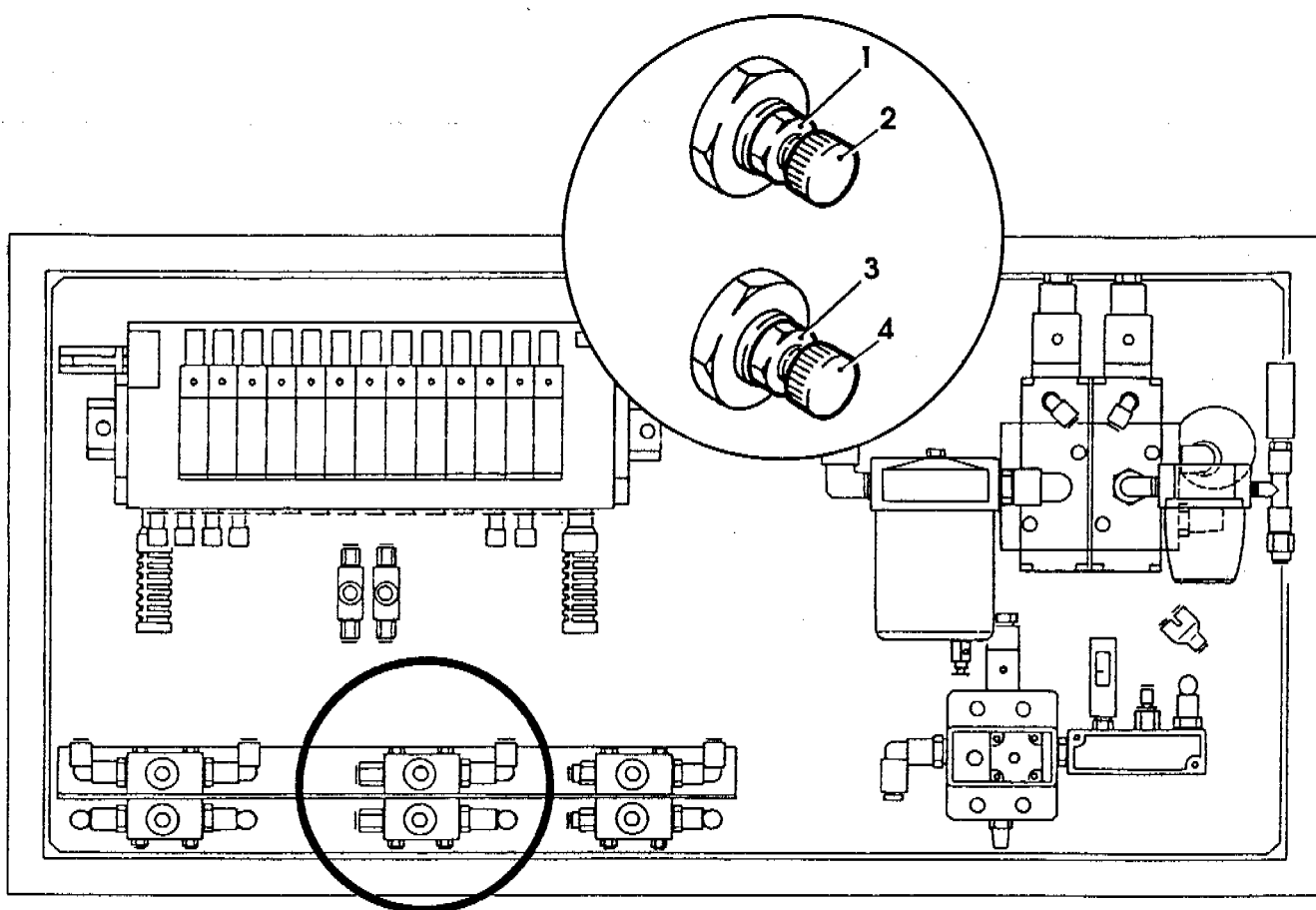
If the speed has been increased, it is necessary to advance the stop point by moving the sensor towards right.

If the speed has been decreased, it is necessary to postpone the stop point by moving the sensor towards left.

## PNEUMATIC ADJUSTMENTS

### ADJUSTMENT OF THE SIDE FLAP FOLDERS SPEED

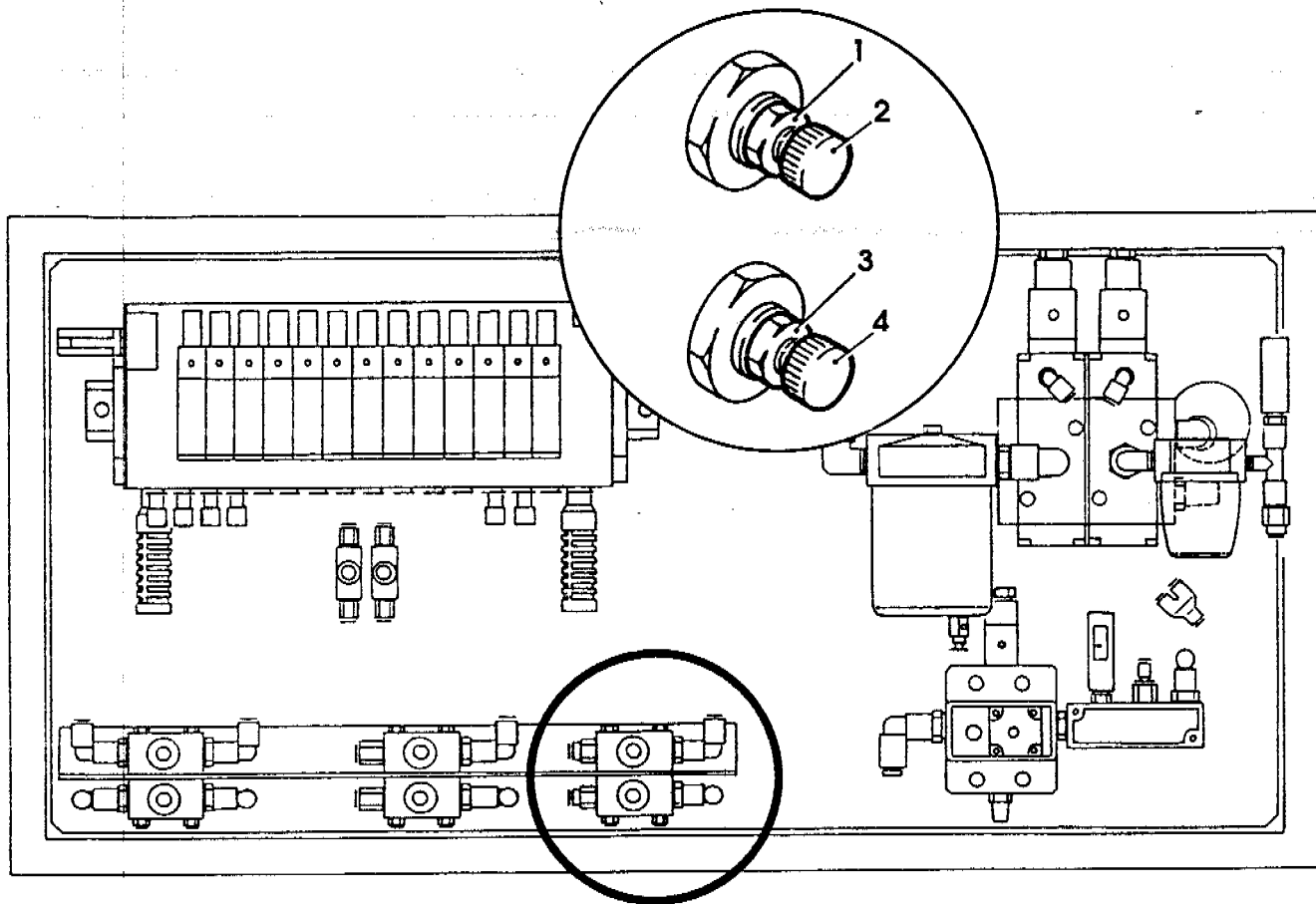
- 1) Loosen the lock nut **1**;
- 2) Turn the knob **2** clockwise to decrease the closing speed; anticlockwise to increase this speed.
- 3) Lock the nut **1**;
- 4) Loosen the nut **3**;
- 5) Turn the knob **4** clockwise to decrease the opening speed; anticlockwise to increase this speed.
- 6) Lock the nut **3**.



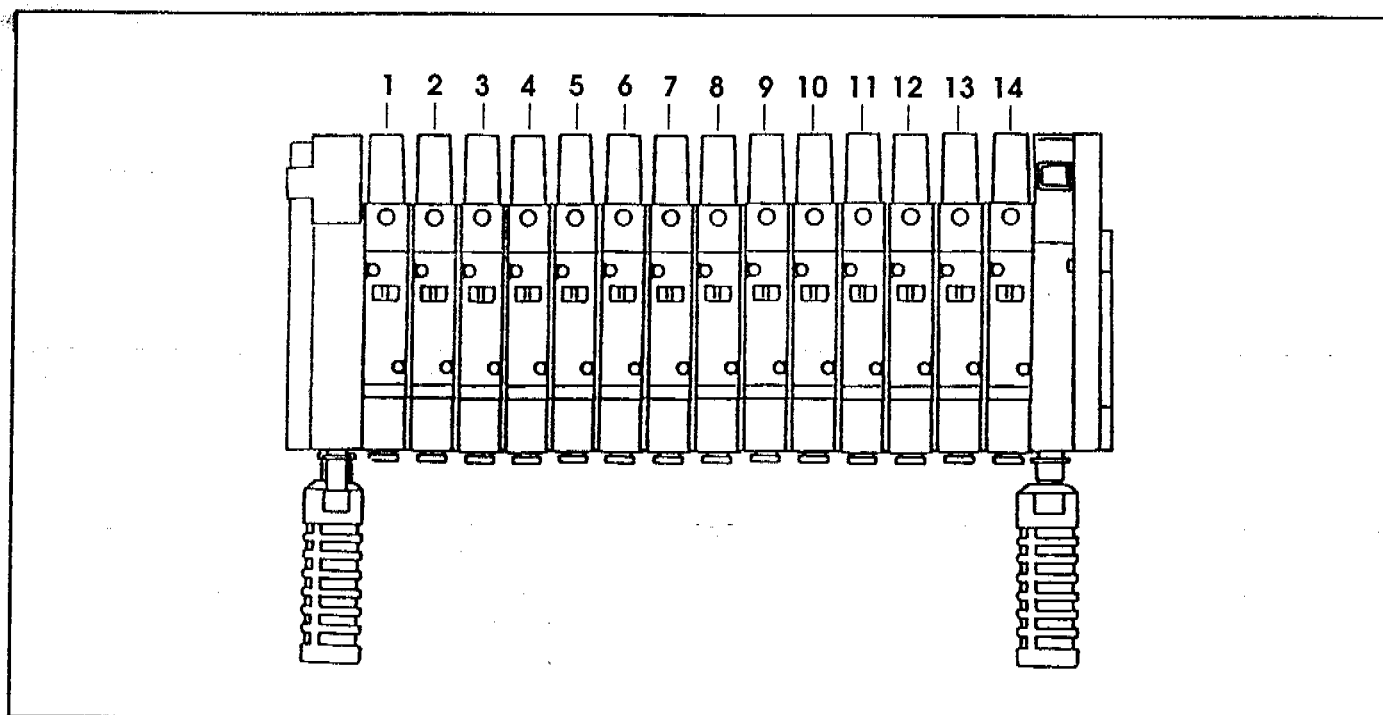
## PNEUMATIC ADJUSTMENTS

### ADJUSTMENT OF THE PUSHER CARRIAGE SPEED

- 1) Loosen the lock nut 1;
- 2) Turn the knob 2 clockwise to decrease the going speed; anticlockwise to increase this speed.
- 3) Lock the nut 1;
- 4) Loosen the nut 3;
- 5) Turn the knob 4 clockwise to decrease the return speed; anticlockwise to increase this speed.
- 6) Lock the nut 3.



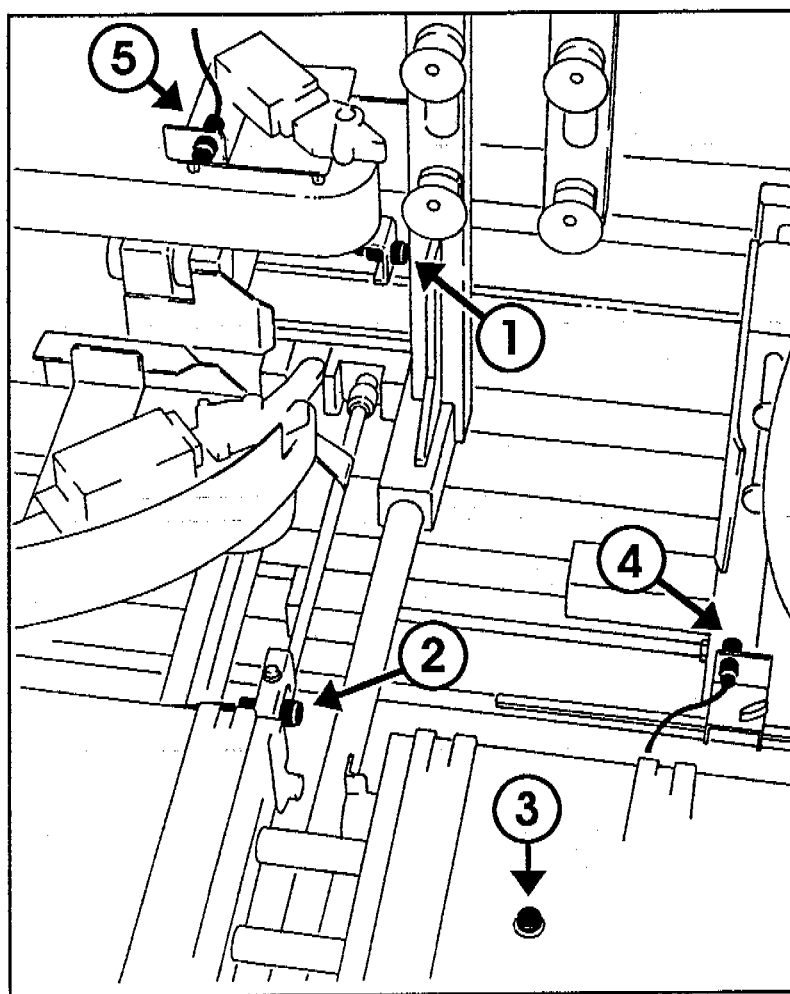
## FUNCTIONS OF THE SOLENOID VALVES



- 1) COUNTER PRESSURE OF THE SUCTION CUPS CARRIAGE
- 2) SUCTION CUPS CARRIAGE RETURN
- 3) SUCTION CUPS CARRIAGE GOING
- 4) BRAKE OF THE SUCTION CUPS CARRIAGE CYLINDER
- 5) BOX HOLDER
- 6) BOX FEEDER
- 7) BOX OPENING LEVER
- 8) REAR FLAP FOLDER
- 9) SUCTION CUP HOLDER ON PUSHER CARRIAGE
- 10) SIDE FLAP FOLDERS
- 11) BOX SUPPORT
- 12) PUSHER CARRIAGE GOING
- 13) PUSHER CARRIAGE RETURN
- 14) BRAKE OF THE PUSHER CARRIAGE CYLINDER

## FUNCTIONS OF THE PHOTOCELLS AND SENSORS

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### SENSOR NR. 1

It determines the stop position of the suction cups carriage when it returns in line with the side drive belts.

### SENSOR NR. 2

It determines the stop position of the suction cups carriage when near to suck the box.

### SENSOR NR. 3

It picks up the boxes presence into the store.

### SENSOR NR. 4

It determines the position of the pusher carriage.

### PHOTOCELL NR. 5

Darkened by the box, it controls the start of the side flap folders.

## ELECTRIC DIAGRAM

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**SEE ENCLOSURE**

## PNEUMATIC DIAGRAM

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SEE ENCLOSURE **SP053**



## VACUUM SYSTEM DIAGRAM

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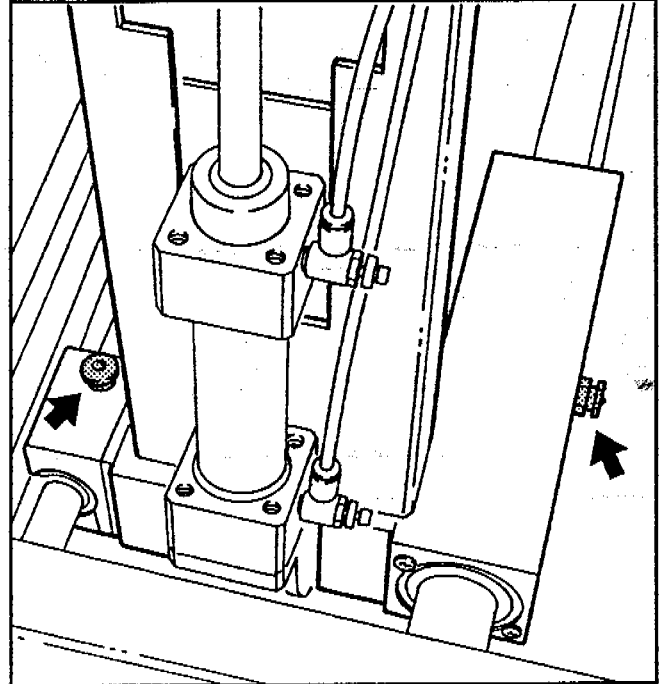
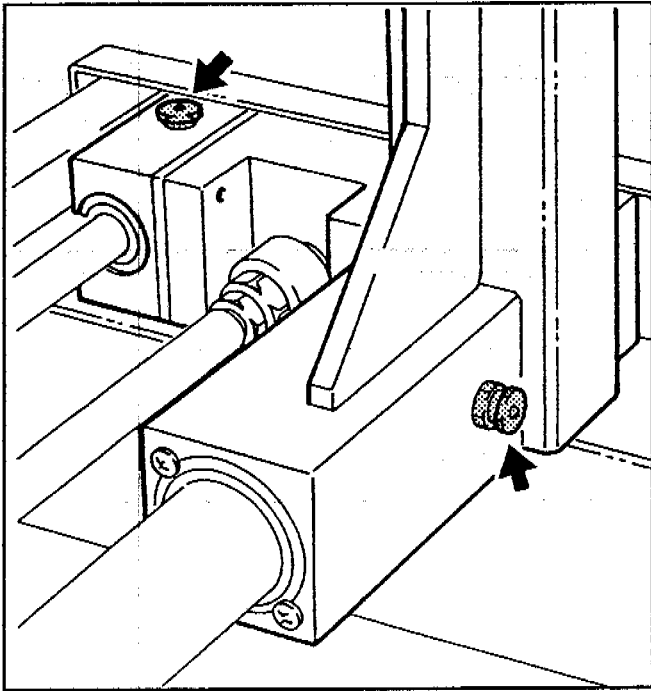
SEE ENCLOSURE **SP054**

## MAINTENANCE

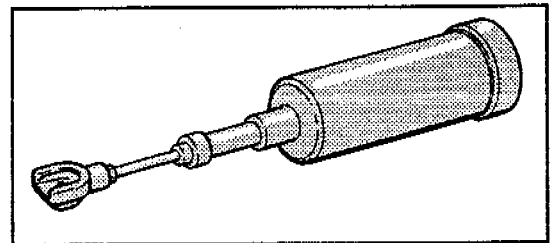
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To allow the best performances of the machine, keep it clean and replace immediately the damaged or wear parts to avoid damages to other parts of the machine.

### LUBRICATION



Lubricate once a month the points showed.



### CUTTING BLADE

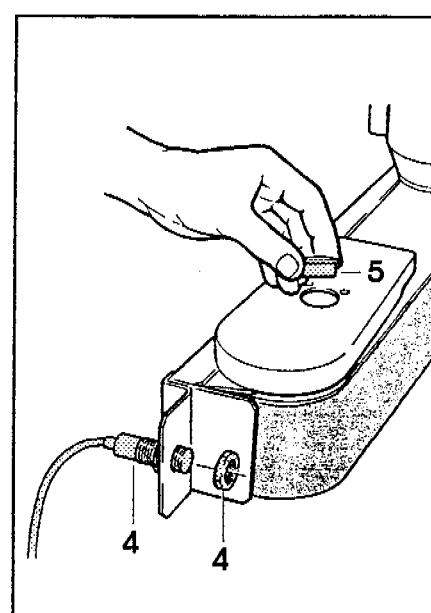
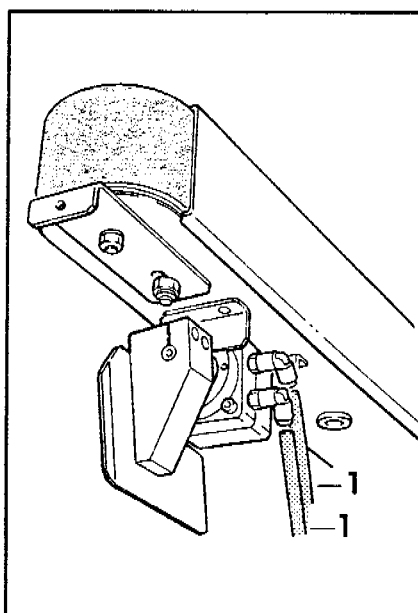
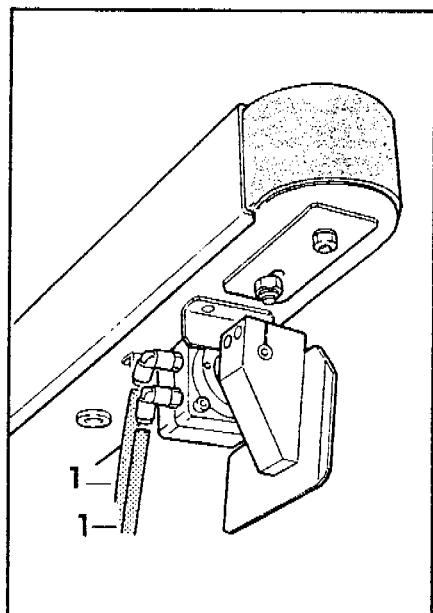
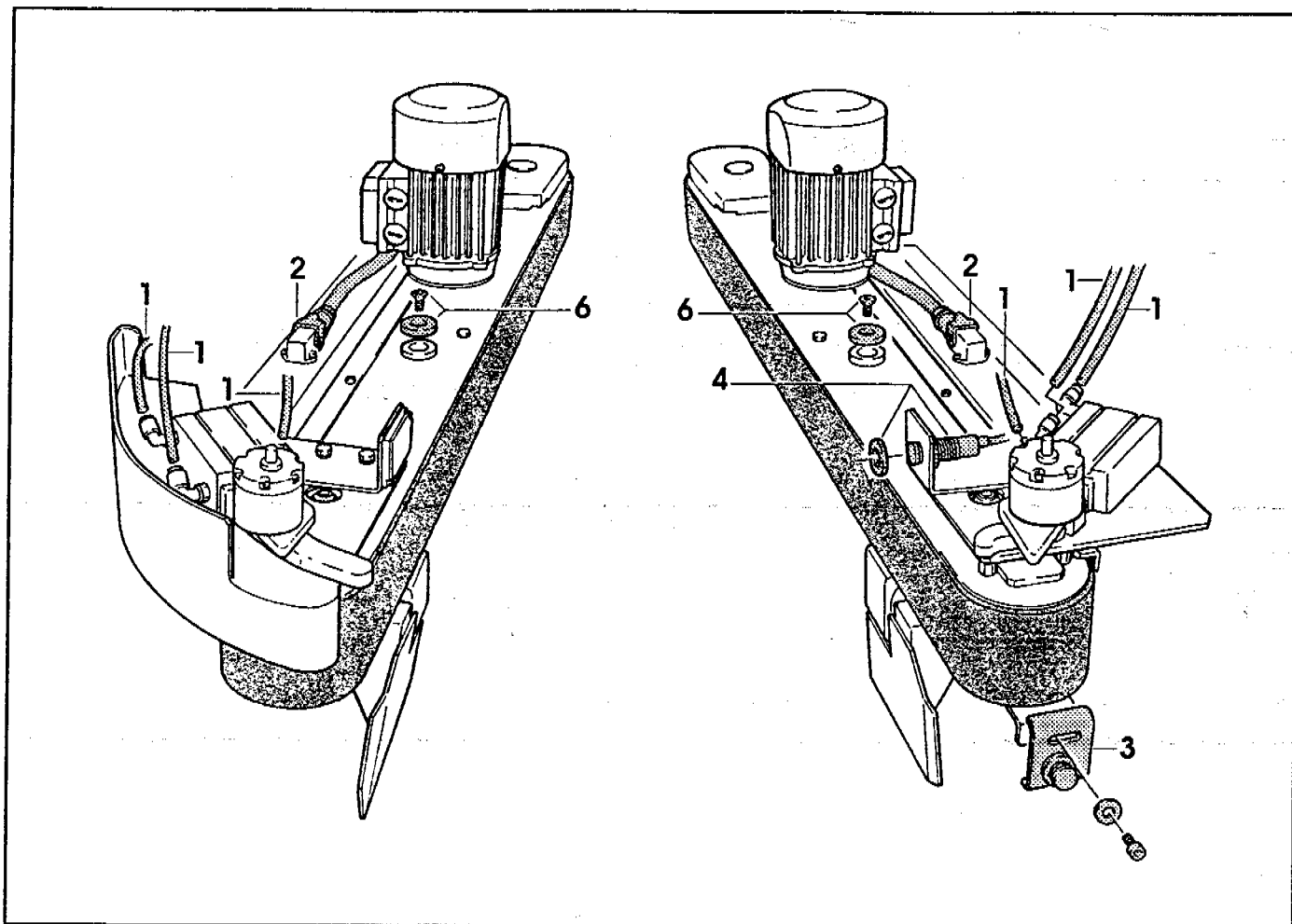
Should tape adhesive build-up occur, carefully wipe clean with oily cloth. Worn out or damaged blades must be replaced in order to guarantee a proper tape cutting function.

### CLEANING

Cardboard boxes produce a great deal of dust and paper chips when processed or handled in the equipment. If this dust is allowed to build up on machine components, it can cause component wear and overheating of drive motors. The dust build-up can be removed from the machine by a shop vacuum or, in case of excessive dirt build-up, with a damp cloth.

Depending on the number and type of boxes sealed in the case former, this cleaning should be done approximately once per month.

## MAINTENANCE (REPLACEMENT OF THE SIDE DRIVE BELTS)

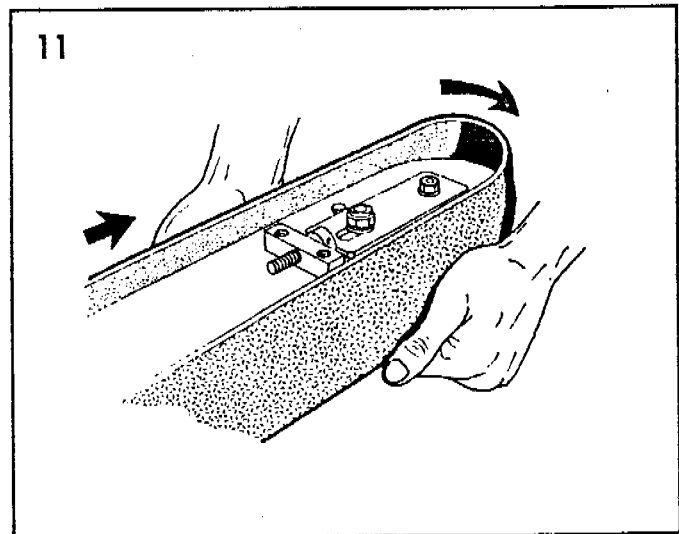
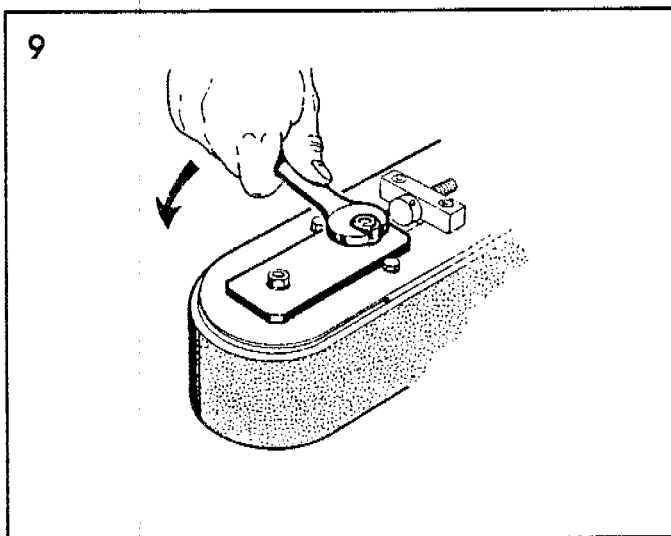
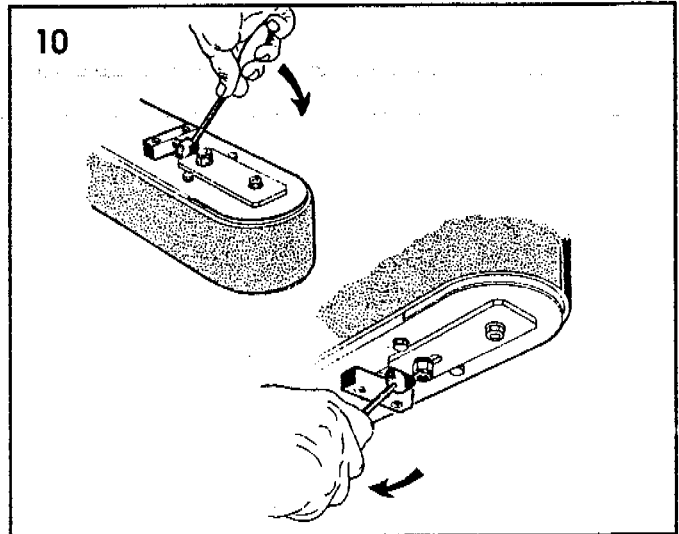
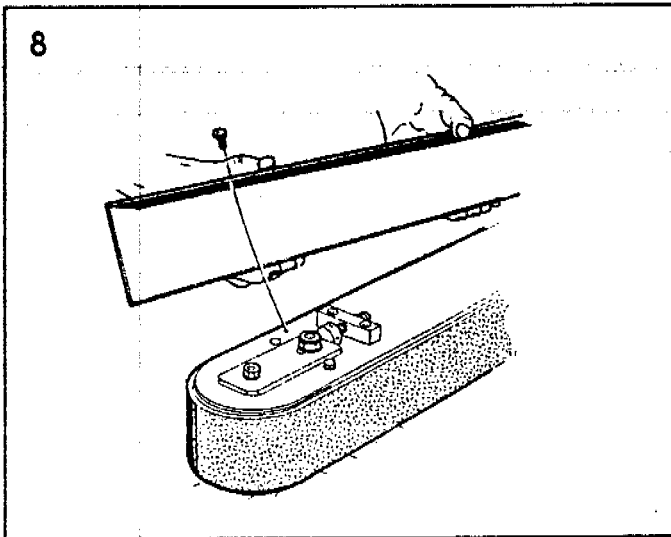
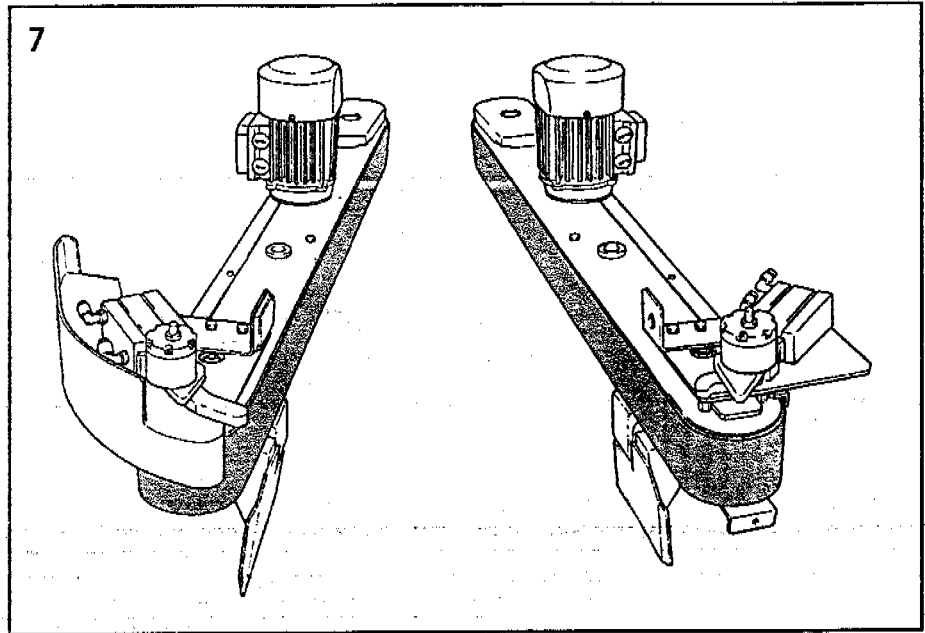


Disconnect the air tubes 1), disconnect the plugs 2), remove the sensor 3), remove the photocells 4), remove the caps 5), loosen and remove the screws and washers that fix the side drives 6).

## MAINTENANCE (REPLACEMENT OF THE SIDE DRIVE BELTS)

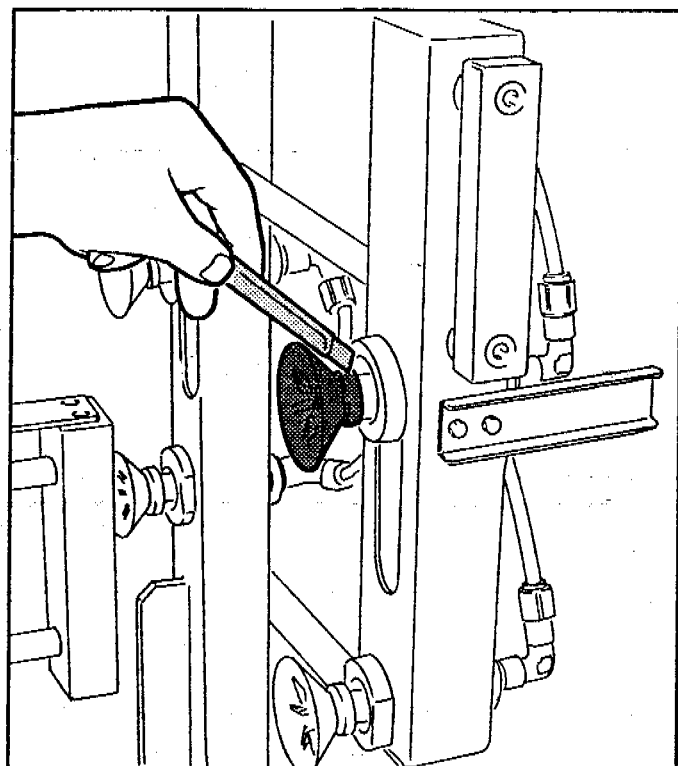
Take the drives 7) out, dismantle the covers 8), loosen the nuts that lock the belt tensioning plate 9), loosen the tensioning screw 10), take the belt out 11).

Reassembly: proceed in the contrary way.

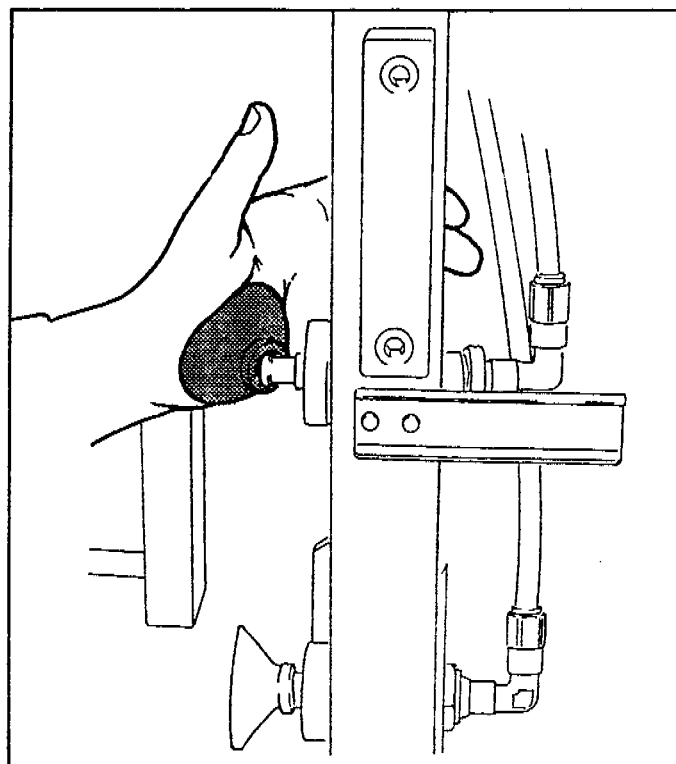


## MAINTENANCE (REPLACEMENT OF THE SUCTION CUPS)

Cut away the cup to be replaced and remove it completely.



Grease the hole of the new cup and fit it.

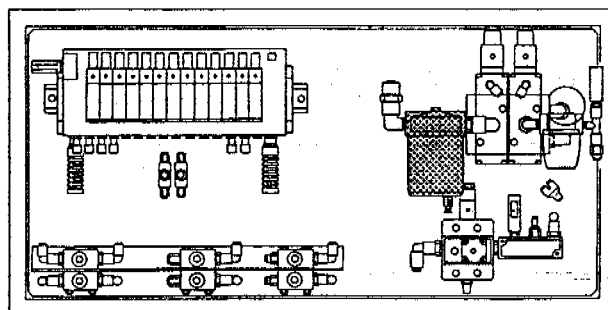
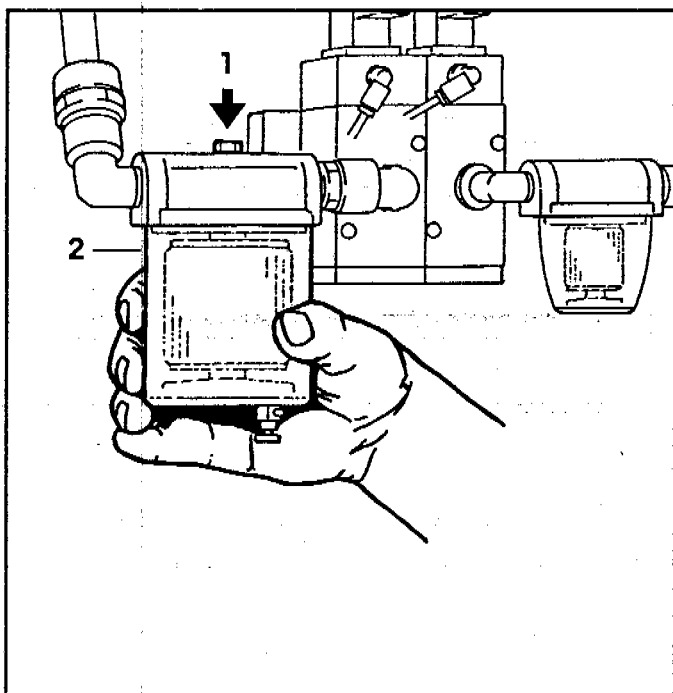


## MAINTENANCE (FILTERS)

Prevent that impurities go into the vacuum pump is the main requirement to guarantee the best operation and a long life.

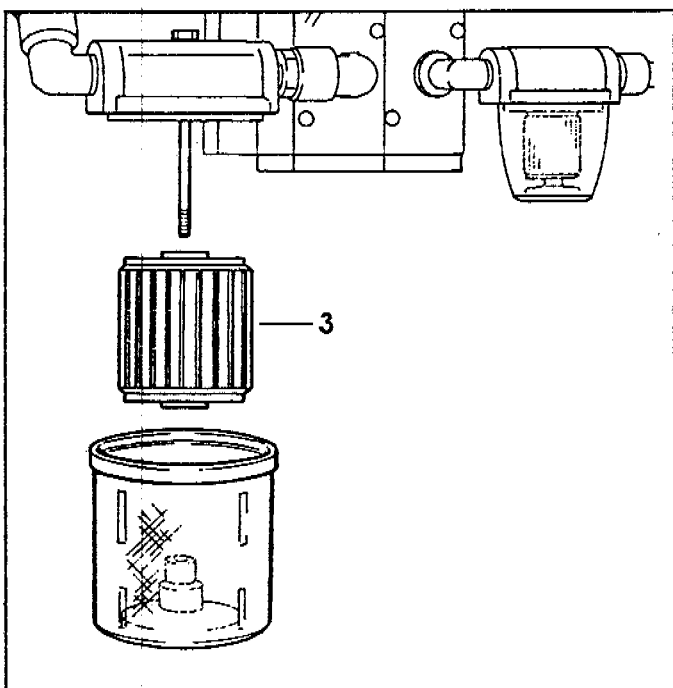
The filters, mounted on the air tubing and on the vacuum pump inlet, need maintenance.

### FILTER FOR THE SUCTION CUPS ON THE MAIN CARRIAGE



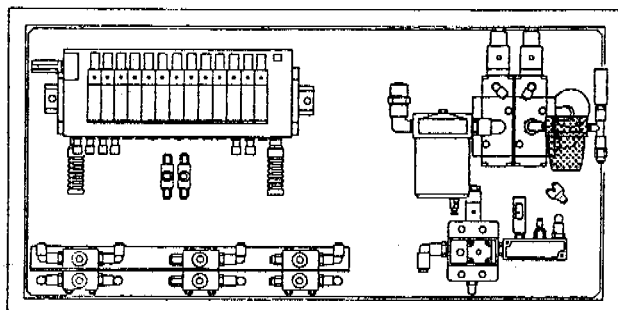
1) Loosen completely the screw 1).

2) Remove the plastic tray 2).

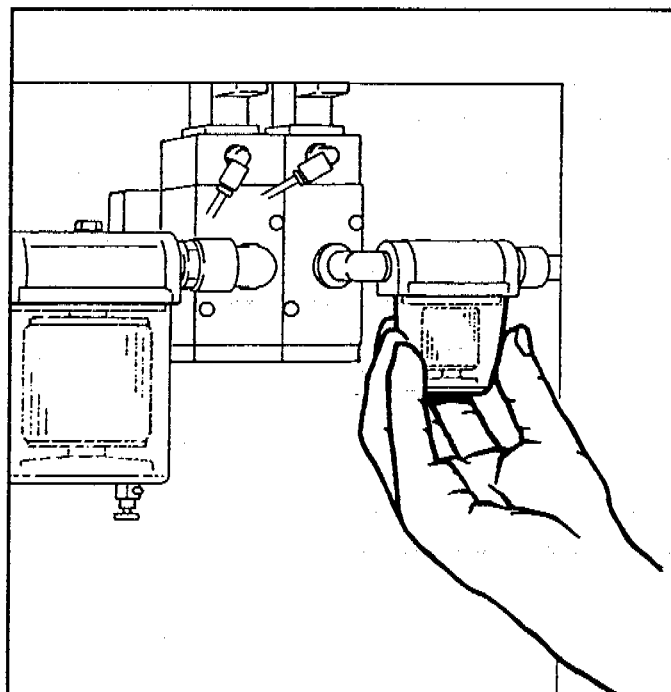


3) Remove the filter 3) and clean it with compressed air.

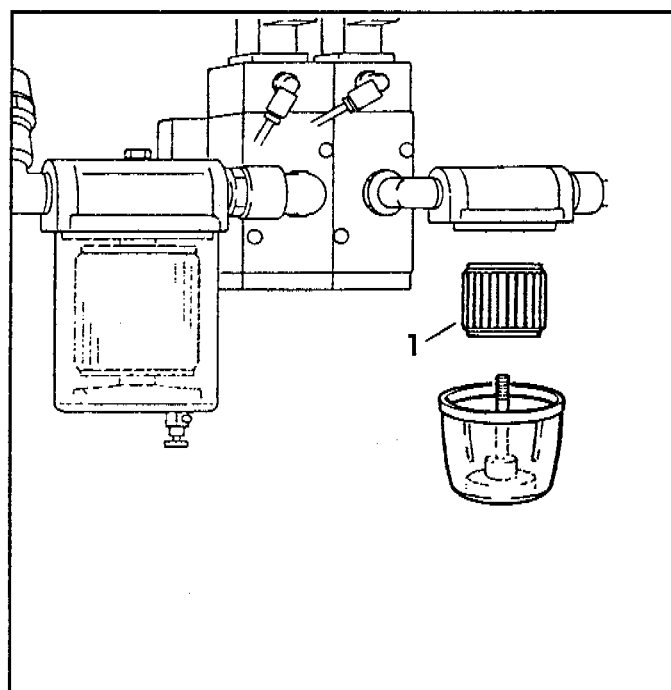
### FILTER FOR THE SUCTION CUP ON THE PUSHER CARRIAGE



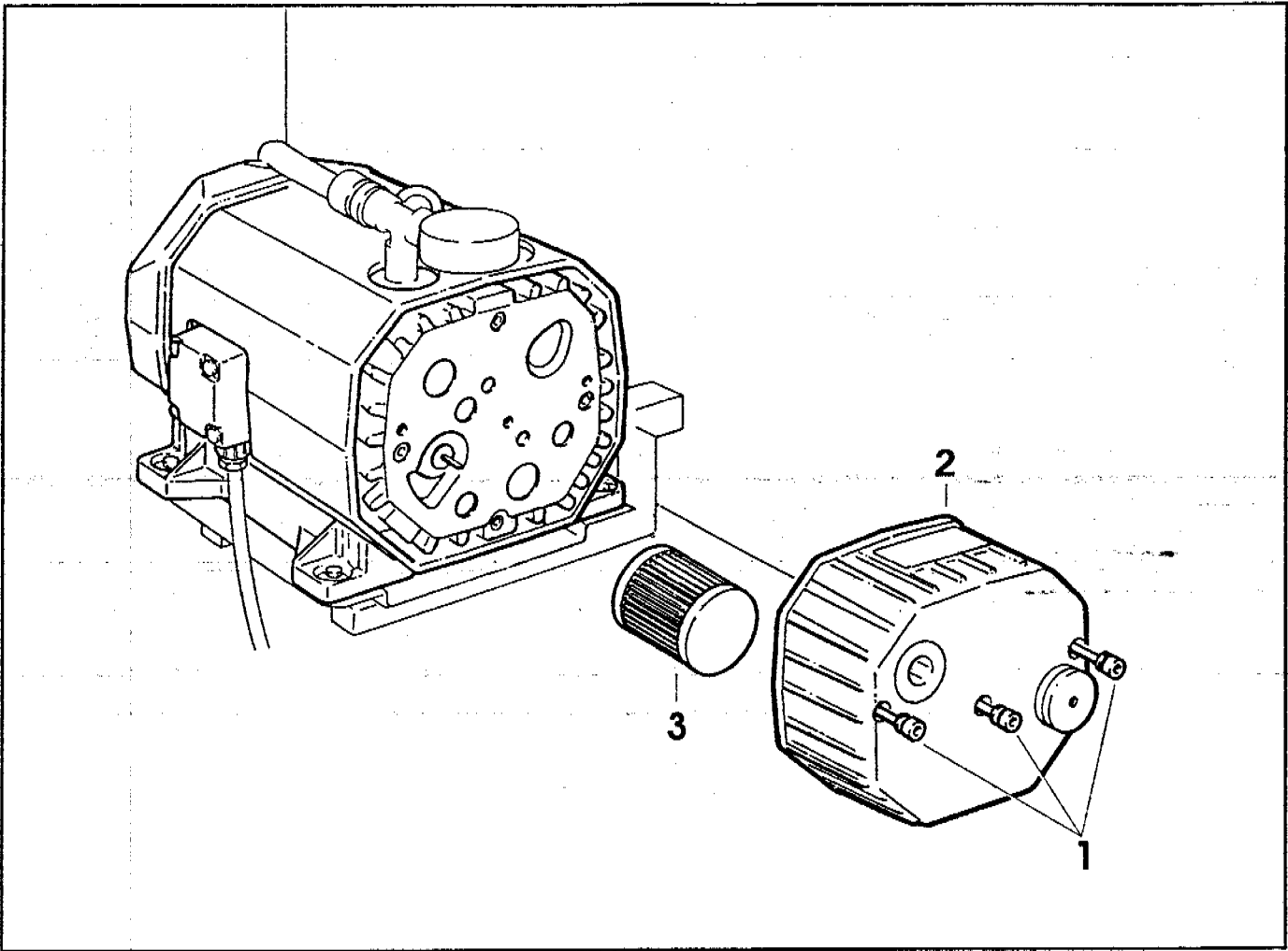
- 1) Take the plastic tray away by turning it clockwise.



- 2) Remove the filter 1) and clean it with compressed air.



**NOTE:** clean the filter every 200 hours working.



### VACUUM PUMP

Regular maintenance of the pump will ensure the best performance. Maintenance intervals are dependent on application and operating conditions.

Before commencing maintenance cut off power to avoid unintentional restart.

- Unscrew the screws 1);
- Remove the cover 2);
- Withdraw the filter 3) and clean it by compressed air.

The filter must be cleaned monthly and replaced once a year at least (spare part nr. **3.8.03202**).



## TROUBLES SHOOTING

TROUBLE	REASON	REMEDY
- Pressing the START button, the suction cups carriage does not move.	- Air pressure not sufficient. - The carriage is not in position. - Solenoid valve nr. 3.	- Adjust the air pressure at 6÷7 BAR. - Preset RESET. - Check the valve.
- The vacuum pump does not work.	- Thermal switch nr. 12.	- Reset.
- Pressing the VACUUM PUMP button the side drive belts do not turn.	- Thermal switch nr. 11.	- Reset.
- The suction cups carriage, after sucked the box, does not return back.	- Sensor nr. 2 (page 36).	- Check the distance between the sensor and the carriage.
- The box is not opened by the lever.	- The return of the suction cups carriage is too slow.	- Increase the speed by acting on the proper regulator (page 35).
- During the return operation, the suction cups carriage does not stop in line with the drive belts.	- The carriage return speed is too fast. - Sensor nr. 1 (page 36)	- Decrease the speed by acting on the proper regulator (page 35). - Adjust the distance between the sensor and the carriage.
- The machine stops without pushing the box into the side drive belts and the box falls down.	- Incorrect position of the sensor (page 26) that adjusts the position of the pusher .	- Adjust the sensor position (the optimum distance between the pusher and the box-forming plate must be some 5 mm over the box length).

# CATALOGO PEZZI DI RICAMBIO - CATALOGUE REPLACEMENT PARTS

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## COME ORDINARE

Per ordinare i pezzi di ricambio si prega di indicare nell'ordine:

- ❖ MODELLO ESATTO DELLA MACCHINA
- ❖ NUMERO DI MATRICOLA DELLA MACCHINA
- ❖ NUMERO DELLA FIGURA DEL CATALOGO RICAMBI IN CUI COMPARE IL PEZZO RICHIESTO
- ❖ NUMERO DI POSIZIONE DEL PEZZO RICHIESTO NELLA FIGURA
- ❖ NUMERO DI CODICE DEL PEZZO
- ❖ DESCRIZIONE DEL PEZZO
- ❖ QUANTITA' DESIDERATA

## ATTENZIONE

LA MACCHINA VIENE COSTANTEMENTE MIGLIORATA DAI PROGETTISTI, E IL CATALOGO DEI RICAMBI SUBISCE PERIODICI AGGIORNAMENTI.  
E' **INDISPENSABILE** CHE OGNI ORDINE DI PARTI DI RICAMBIO MENZIONI IL **NUMERO DI MATRICOLA** DELLA MACCHINA, LEGGIBILE SULLA TARGHETTA METALLICA DI IDENTIFICAZIONE DELLA MACCHINA

Il costruttore si riserva la facoltà di apportare modifiche alle macchine senza preavviso.



## HOW TO ORDER

When ordering spare parts, please define each part as follows:

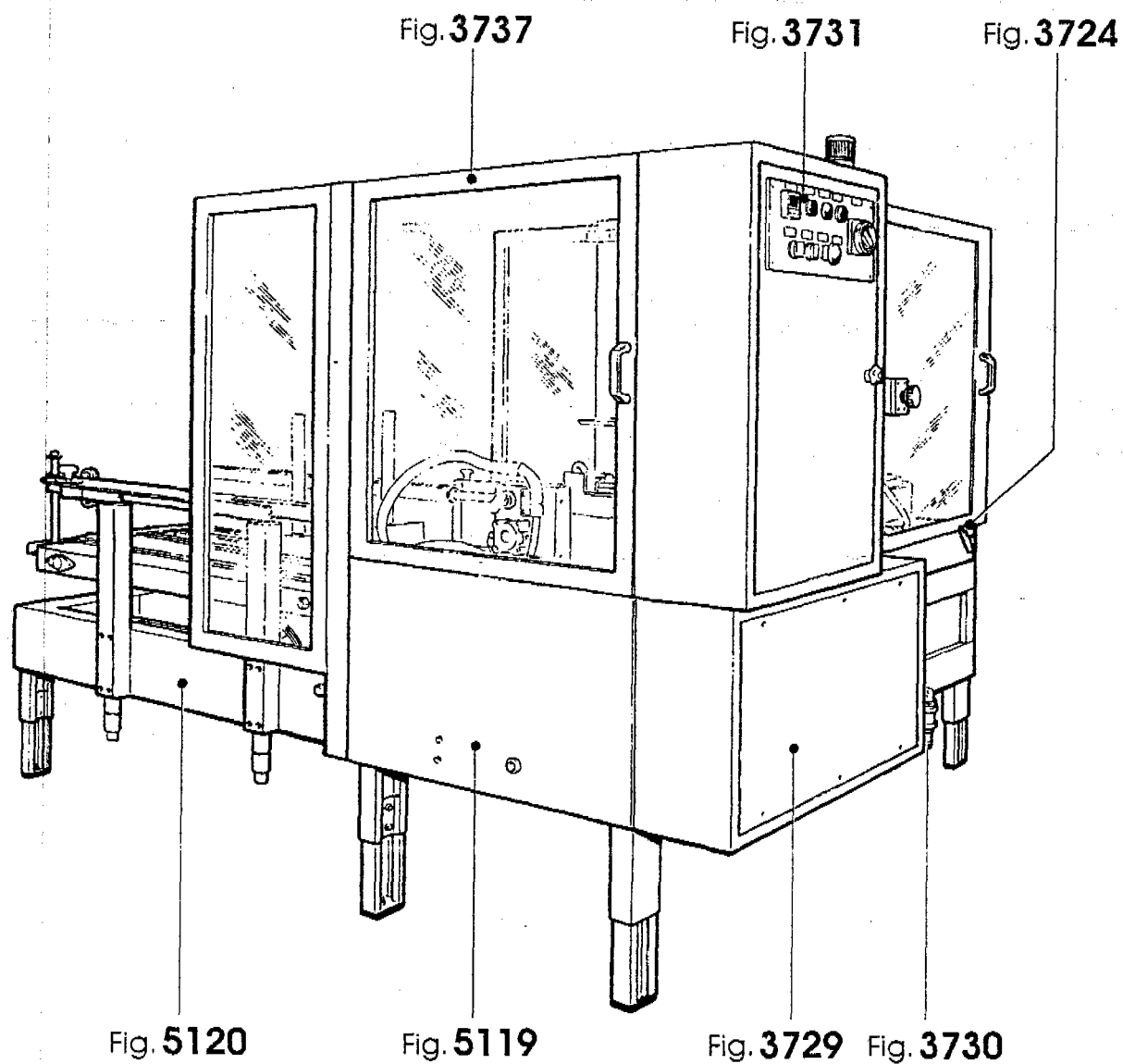
- ❖ MODEL OF MACHINE
- ❖ SERIAL NUMBER OF MACHINE
- ❖ NUMBER OF THE FIGURE IN THE SPARE PARTS CATALOGUE IN WHICH THE REQUESTED PART APPEARS
- ❖ NUMBER OF POSITION OF THE REQUESTED PART IN THE FIGURE
- ❖ PART NUMBER
- ❖ DESCRIPTION
- ❖ DESIRED QUANTITY

## WARNING

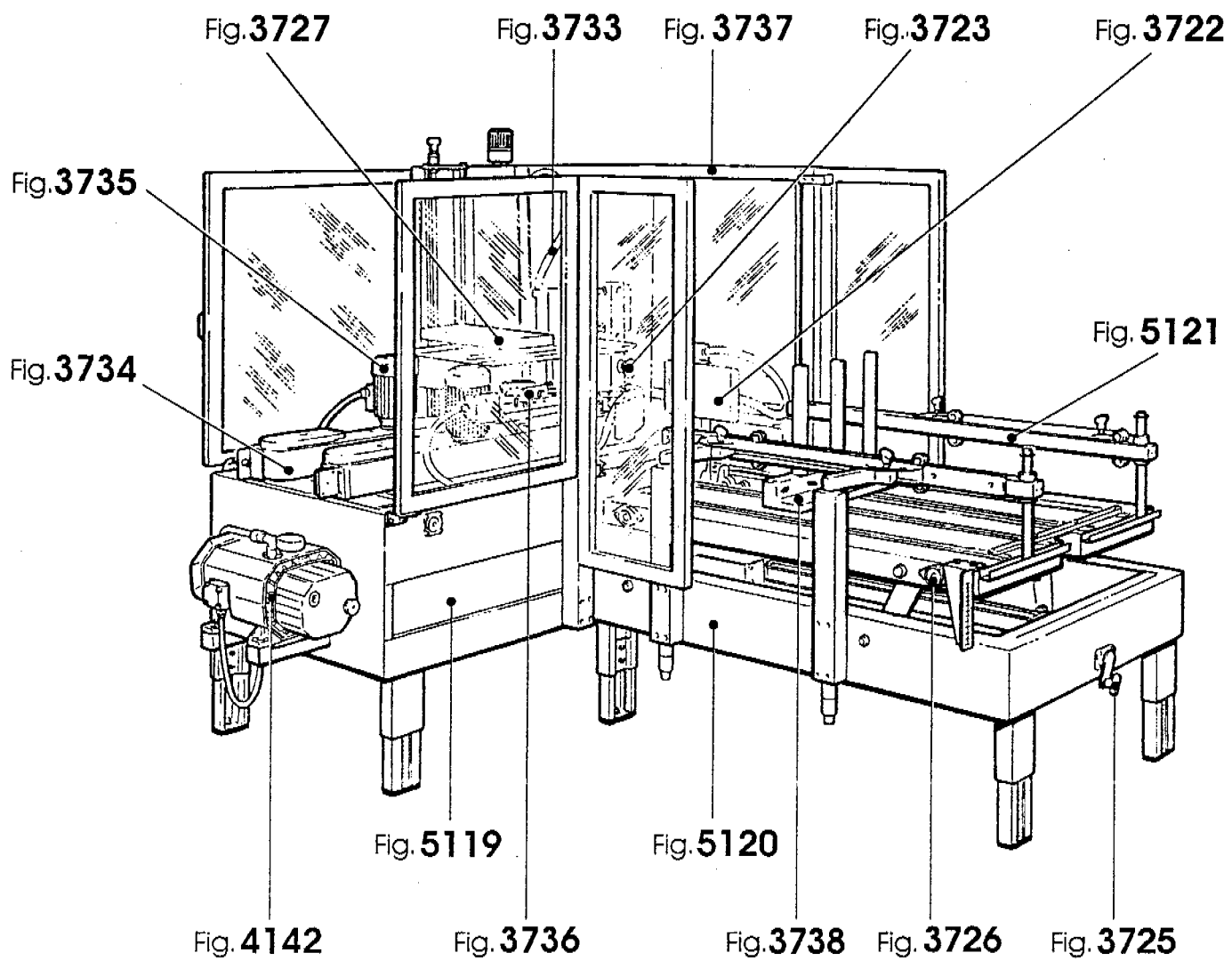
THE MACHINE IS CONSTANTLY REVISED AND IMPROVED BY OUR DESIGNERS. THE SPARE PARTS CATALOGUE IS ALSO PERIODICALLY UPDATED. IT IS **VERY IMPORTANT** THAT ALL THE ORDERS OF SPARE PARTS MAKE REFERENCE TO THE **SERIAL NUMBER** OF THE MACHINE, WHICH IS PUNCHED ON THE METAL NAME PLATE ON THE MACHINE

The manufacturer reserves the right to modify the machine at any time without notice.

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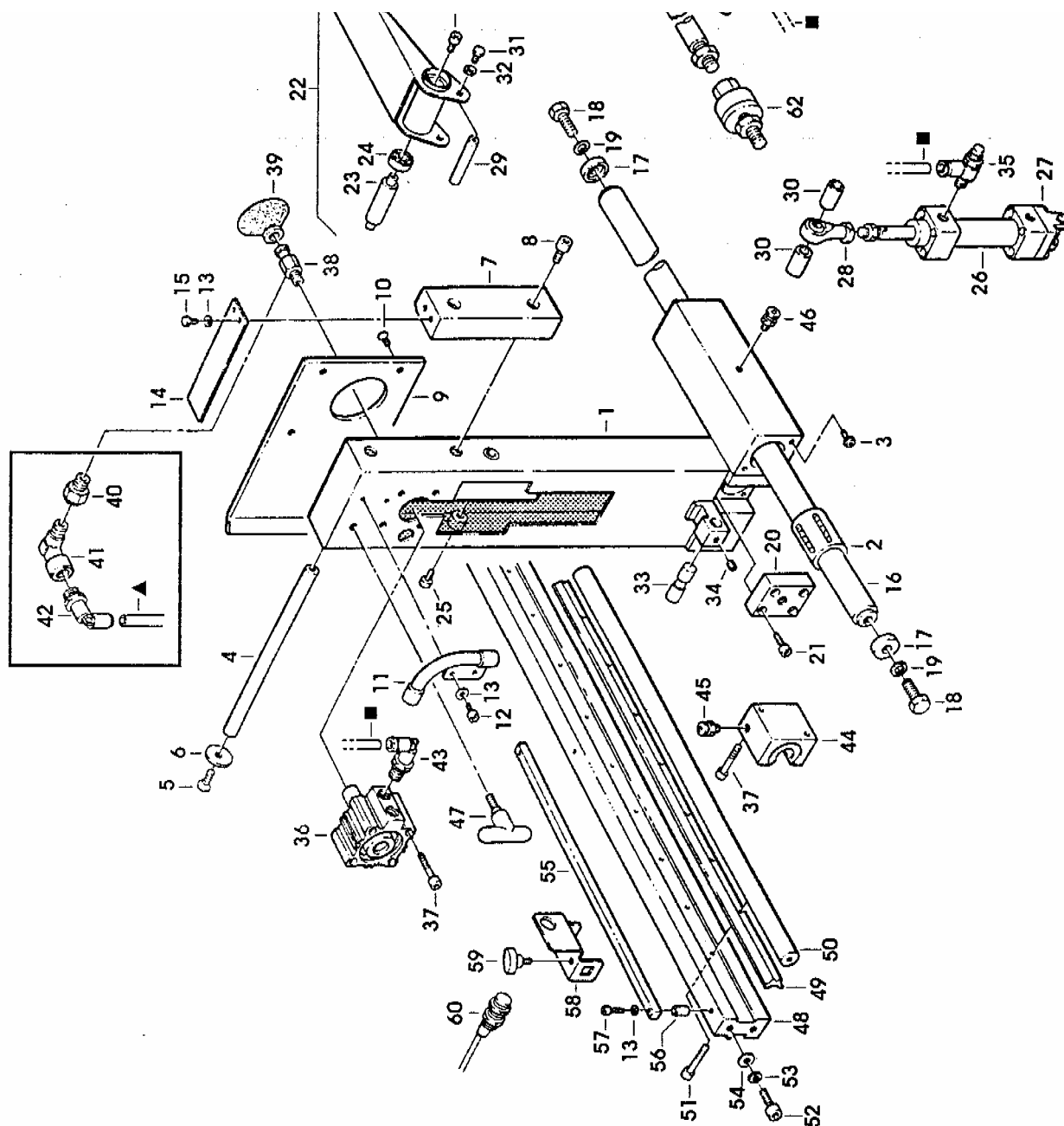
**VISTA LATO COMANDI**



VISTA LATO ALIMENTATORE

Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3722,00	SPINTORE CHIUDIFALDA POST.	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.5.04486.40	CARRELLO CHIUDIFALDA POST.COM INS.F144	PZ	1,000
2,0	3.4.02138	BUSSOLA KH4060 PP F144	PZ	2,000
3,0	3.4.00720.93	VITE TESTA MEZZA TONDA M5X12 CROCE ZINC.	PZ	4,000
4,0	3.3.11666.83	ASTA X CARRELLO /16X250 F144	PZ	2,000
5,0	3.4.00048.93	VITE TSVEI M8X15 ZINCATA	PZ	2,000
6,0	3.3.11691.93	RONDELLA SVASATA /8,5-25-5 F144	PZ	2,000
7,0	3.3.11656.95	SPINTORE F144-SX	PZ	1,000
8,0	3.4.00486.93	VITE TCEI M8X25 ZINCATA	PZ	2,000
9,0	3.2.04291.95	PIASTRA PER CARRELLO POSTER. F144-SX	PZ	1,000
10,0	3.4.00053.93	VITE TSVEI M6X16 ZINCATA	PZ	4,000
11,0	4.4.04863.47	CURVA CON STAFFA F144-SX	PZ	1,000
12,0	3.4.00112.93	VITE TCEI M5X16 ZINCATA	PZ	2,000
13,0	3.4.00061.93	RONDELLA PIANA X VITE M5 ZINC.	PZ	6,000
14,0	3.2.04401.95	PIASTRINA X RIGHELLA MILLIM. F144	PZ	1,000
15,0	3.4.00371.93	VITE TE M5X12 ZINCATA	PZ	2,000
16,0	3.3.11679.83	ALBERO X CARRELLI F144	PZ	1,000
17,0	3.3.11686.93	BUSSOLA ATTACCO ASTE F144	PZ	2,000
18,0	3.4.00138.93	VITE TE M10X30 ZINCATA	PZ	2,000
19,0	3.4.01170.92	RONDELLA DENT.EST./10 BRUNITA	PZ	2,000
20,0	3.3.11772.93	BLOCCHETTO ATTACCO CILINDRO F144	PZ	1,000
21,0	3.4.00160.93	VITE TCEI M6X20 ZINCATA	PZ	8,000
22,0	4.3.04519	CHIUDIFALDA POST.C/CUSCINETTI F144	PZ	1,000
23,0	3.3.11660.92	PERNO X CHIUDIFALDA POST.F144	PZ	1,000
24,0	3.4.00166	CUSCINETTO 6001-2RS	PZ	2,000
25,0	3.4.00051.93	VITE TCEI M6X12 ZINCATA	PZ	2,000
26,0	3.8.02851	CILINDRO C65 D 32-60 C F144	PZ	1,000
27,0	3.8.02853	CERNIERA C65 D32 F144	PZ	1,000
28,0	3.4.01010.93	TESTA A SNODO M10X1,25 ZINCATA	PZ	1,000
29,0	3.3.00041.90	PERNO /10X66 FOSFATATO	PZ	1,000
30,0	3.3.11693.93	DISTANZIALE /10,2-16-26 F144	PZ	2,000
31,0	3.4.00021.93	VITE TE M6X12 ZINCATA	PZ	2,000
32,0	3.4.00024.92	RONDELLA ELAST.X VITE M6 BRUN.	PZ	6,000
33,0	3.3.11658.92	PERNO ATTACCO CILINDRO F144	PZ	1,000
34,0	3.4.01794.92	GRANO EIPC M6X8	PZ	1,000
35,0	3.8.02929	REGOLAT.DI FLUSSO EAS 2201F 01-06 F144	PZ	2,000
36,0	3.8.02402	CILINDRO DN-50C ECO 2B 50-100 SM44/S	PZ	1,000
37,0	3.4.00137.93	VITE TCEI M6X50 ZINCATA	PZ	6,000
38,0	3.3.11667	PORTAVENTOSA POST.F144	PZ	1,000
39,0	3.8.02869	VENTOSA 01.65.28 F144	PZ	1,000
40,0	3.8.01540	PROLUNGA MFRA 017 1/8" 1/4"	PZ	1,000
41,0	3.8.01108	RACCORDO RA 022-1/4-1/4	PZ	1,000
42,0	3.8.02358	RACCORDO GOMITO KQL08-02S 800af	PZ	1,000



F144-SX

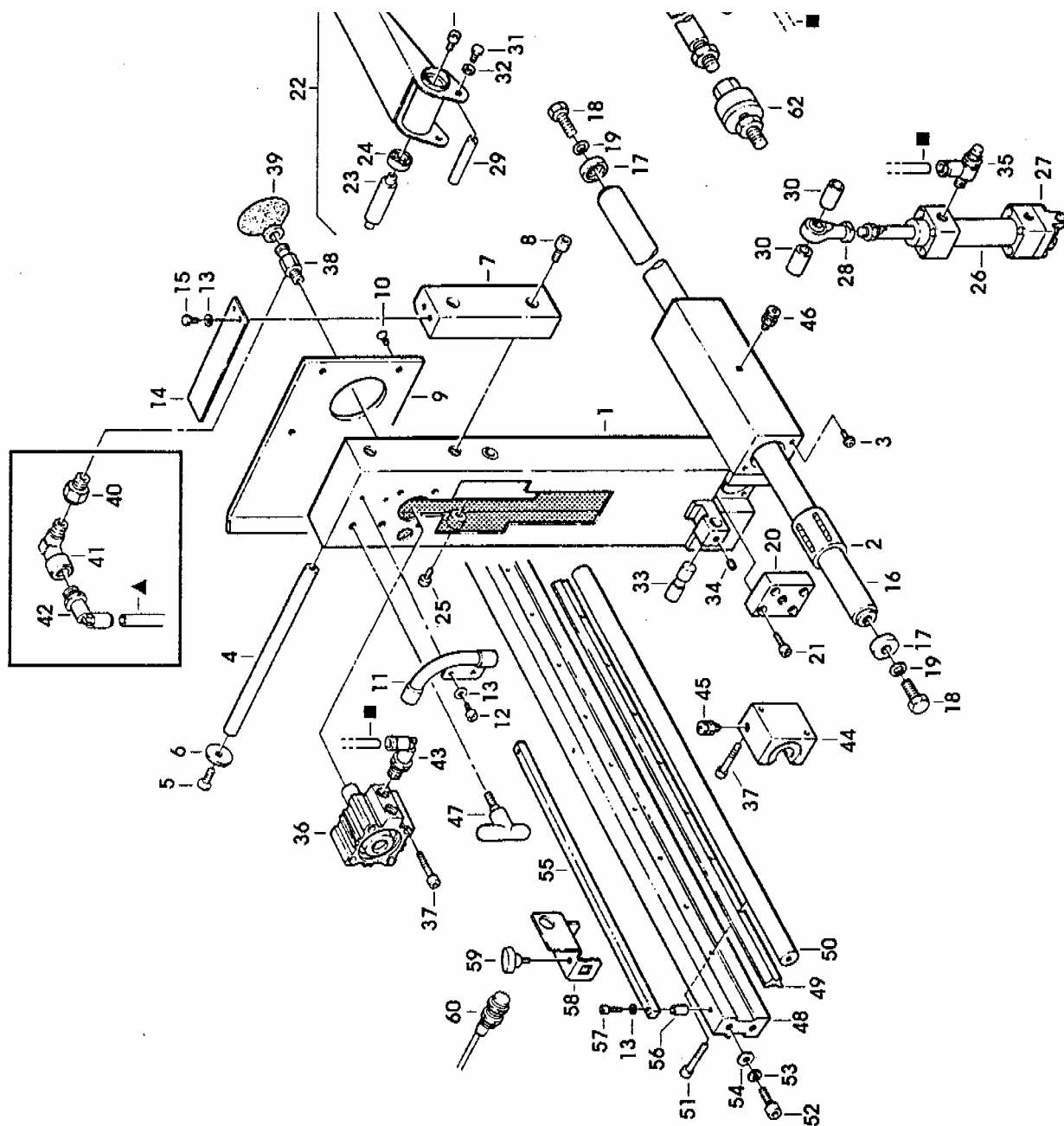
Set. 1995

Fig. 3722

Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3722,00	SPINTORE CHIUDIFALDA POST.	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
43,0	3.8.02357	RACCORDO GOMITO KQL06-02S 800af	PZ	2,000
44,0	3.4.02132	BLOCCETTO BUSSOLA SPP80M20 F144	PZ	1,000
45,0	3.4.02215.93	INGRASSATORE UNI 7662 FORMA A M6X1 F144	PZ	1,000
46,0	3.4.02158.93	INGRASSATORE UNI 7662 FORMA B M10X1 F144	PZ	1,000
47,0	4.2.04191	MANOPOLA M8-M10 X CARRELLO F144	PZ	1,000
48,0	4.5.04534.95	BARRA PER GUIDA CARRELLO POST. CON INSERTI F144-SX	PZ	1,000
49,0	3.4.02136	GUIDA CON FORI L=600 F144	PZ	1,000
50,0	3.4.02134	ALBERO CON FORI /20X600 F144	PZ	1,000
51,0	3.4.00110.93	VITE TCEI M6X45 ZINC.	PZ	8,000
52,0	3.4.00486.93	VITE TCEI M8X25 ZINCATA	PZ	4,000
53,0	3.4.00063.92	ROSETTA ELAST.GROWER DIN 7980 (SEZ.QUADRATA) X VITE M8	PZ	4,000
54,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	4,000
55,0	3.3.11668.93	GUIDA X SENSORE F144	PZ	1,000
56,0	3.3.11694.93	DISTANZIALE /5,5-10-14 F144	PZ	2,000
57,0	3.4.00513.93	VITE TCEI M5X35 ZINCATA	PZ	2,000
58,0	3.2.04292.93	SUPPORTO SENSORE F144	PZ	1,000
59,0	3.4.01853	CHIAVETTA DI SERRAGGIO "ELESA" CT476/30 M6X20 800af	PZ	1,000
60,0	3.8.02411	INTERRUTTORE DI PROSSIMITA' TL-XSF1-E2	PZ	1,000
61,0	3.8.02848	CILINDRO C92 LADB 40-400 D F144	PZ	1,000
62,0	3.8.02866	SNODO SFERICO JA40-12-125 F144	PZ	1,000
63,0	3.8.02289	RACCORDO GOMITO 3199.08.13	PZ	2,000
64,0	3.8.00617	RACCORDO GOMITO GIR.31990613	PZ	2,000
65,0	3.8.02670	FINECORSO MAGNETICO 24V CC 5-5 -D A53L XL330	PZ	1,000
66,0	3.8.02671	FISSAGGI X F.C.M. BT-03	PZ	1,000
67,0	3.8.01683	RACCORDO Y FEMM.LEGRIS31400600	PZ	4,000
68,0	3.4.01407.93	VITE TCEI M4X55 ZINCATA	PZ	1,000
69,0	3.4.00043.93	RONDELLA PIANA X VITE M4 ZINC.	PZ	2,000
70,0	3.4.00298.93	DADO AUTOBLOCCANTE M4 ZINCATO	PZ	1,000

===== Data 22/09/95 =



F144-SX

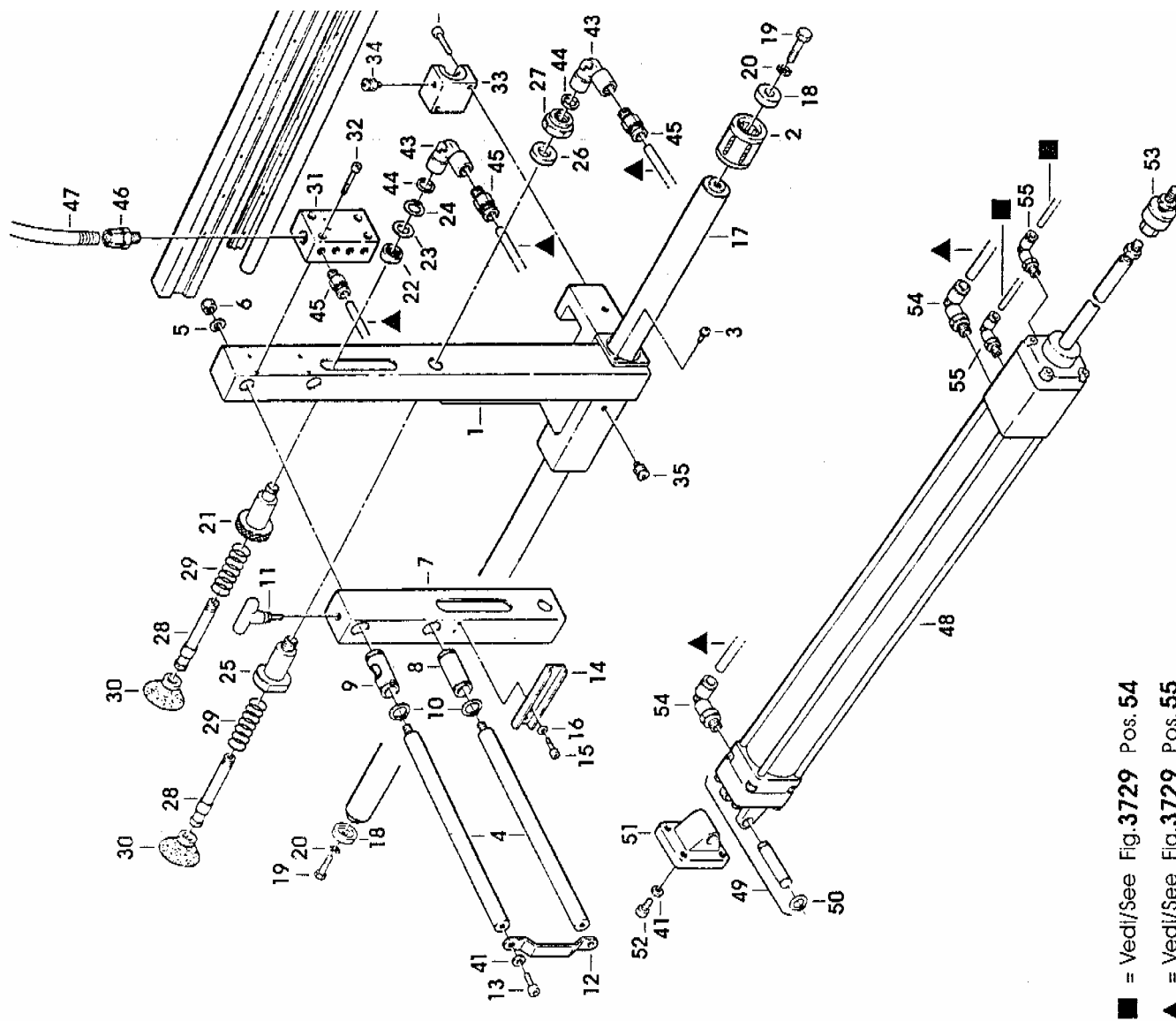
Set. 1995

Fig. 3722



Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3723,00	CARRELLO PORTAVENTOSE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.5.04484.40	CARRELLO PORTAVENTOSE C/INS. F144	PZ	1,000
2,0	3.4.02138	BUSSOLA KH4060 PP F144	PZ	2,000
3,0	3.4.00720.93	VITE TESTA MEZZA TONDA M5X12 CROCE ZINC.	PZ	2,000
4,0	3.3.11674.83	ASTA /20X400 F144	PZ	2,000
5,0	3.4.00219.93	RONDELLA PIANA X VITE M10 ZINC	PZ	4,000
6,0	3.4.00438.93	DADO AUTOBLOCCANTE M10 BASSO	PZ	2,000
7,0	4.5.04522.40	PORTAVENTOSA MOBILE F144	PZ	1,000
8,0	3.1.01205	BUSSOLA PASSANTE F144 PER PORTAVENTOSA	PZ	1,000
9,0	3.1.01237	BUSSOLA INF.PER CARRELLO PORTAVENTOSE F144	PZ	1,000
10,0	3.4.00399.92	ANELLO ARRESTO PER ALBERO /28	PZ	4,000
11,0	4.2.04191	MANOPOLA M8-M10 X CARRELLO F144	PZ	1,000
12,0	3.2.04421.47	FERMO X CARRELLO PORTAVENTOSE F144	PZ	1,000
13,0	3.4.00122.93	VITE TCEI M8X20 ZINCATA	PZ	2,000
14,0	3.2.04402.93	PIASTRINA FERMO TUBI PNEUM. PER CARRELLO F144	PZ	1,000
15,0	3.4.00119.93	VITE TCEI M5X10 ZINCATA	PZ	2,000
16,0	3.4.00061.93	RONDELLA PIANA X VITE M5 ZINC.	PZ	2,000
17,0	3.3.11679.83	ALBERO X CARRELLI F144	PZ	1,000
18,0	3.3.11686.93	BUSSOLA ATTACCO ASTE F144	PZ	2,000
19,0	3.4.00138.93	VITE TE M10X30 ZINCATA	PZ	2,000
20,0	3.4.01170.92	RONDELLA DENT.EST./10 BRUNITA	PZ	2,000
21,0	3.3.11670.92	SUPPORTO PORTAVENTOSA REGOL. F144	PZ	2,000
22,0	3.3.11672.92	DADO FISSAGGIO VENTOSE F144	PZ	2,000
23,0	3.2.04298.98	RONDELLA /20-30-1 X PORTAVENT. F144	PZ	6,000
24,0	3.4.00037.92	ANELLO ARRESTO X ALGERO /18 BR	PZ	2,000
25,0	3.3.11671.92	SUPPORTO PORTAVENTOSA FISSO F144	PZ	2,000
26,0	3.3.04398.93	RONDELLA /20,5/30X5	PZ	2,000
27,0	3.5.00515.93	DADO SPEC.AUTOBLOCC.M20X1 ZINC	PZ	2,000
28,0	3.3.11669	PORTAVENTOSA F144	PZ	4,000
29,0	3.7.00265.92	MOLLA X VENTOSE F144	PZ	4,000
30,0	3.8.02869	VENTOSA 01.65.28 F144	PZ	4,000
31,0	3.3.11655.95	DISTRIBUTORE PER VUOTO F144-SX	PZ	1,000
32,0	3.4.00137.93	VITE TCEI M6X50 ZINCATA	PZ	6,000
33,0	3.4.02132	BLOCCETTO BUSSOLA SPPBOM20 F144	PZ	1,000
34,0	3.4.02215.93	INGRASSATORE UNI 7662 FORMA A M6X1 F144	PZ	1,000
35,0	3.4.02158.93	INGRASSATORE UNI 7662 FORMA B M10X1 F144	PZ	1,000
36,0	4.5.04533	BARRA X GUIDA CARR.PORTAV.CON INS.F144	PZ	1,000
37,0	3.4.02135	GUIDA CON FORI L=900 F144	PZ	1,000
38,0	3.4.02133	ALBERO CON FORI /20X900 F144	PZ	1,000
39,0	3.4.00110.93	VITE TCEI M6X45 ZINC.	PZ	12,000



■ = Vedi/See Fig. 3729 Pos. 54  
 ▲ = Vedi/See Fig. 3729 Pos. 55

F144-SX

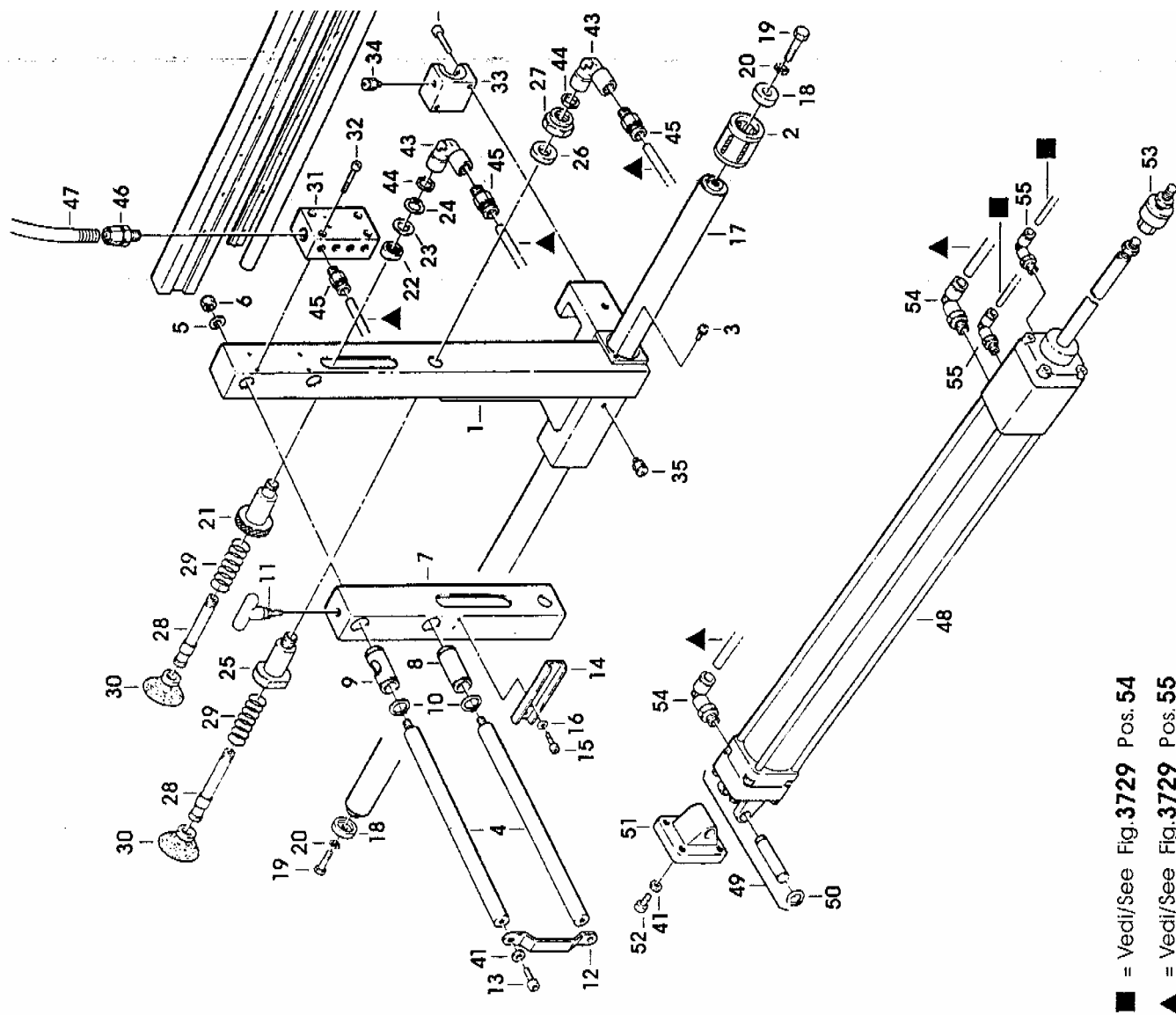
Set. 1995

Fig. 3723

Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3723,00	CARRELLO PORTAVENTOSE		0 7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
40,0	3.4.00486.93	VITE TCEI M8X25 ZINCATA	PZ	4,000
41,0	3.4.00063.92	ROSETTA ELAST.GROWER DIN 7980 (SEZ.QUADRATA) X VITE M8	PZ	10,000
42,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	4,000
43,0	3.8.01107	RACCORDO RA 021 1/4"-1/4"	PZ	4,000
44,0	3.8.00884	GUARNIZIONE 1/4"	PZ	4,000
45,0	3.8.02349	RACCORDO DIRITTO KQH08-02S 800af	PZ	8,000
46,0	3.8.02872	RACCORDO RTPR-1/2" F144	PZ	1,000
47,0	3.8.03068	TUBO TPR-1/2" (MT.1,5) F144	PZ	1,000
48,0	3.8.02847	CILINDRO C92 LADB 40-800 D F144	PZ	1,000
49,0	3.8.02342	CERNIERA D40 800af	PZ	1,000
50,0	3.4.00135.92	ANELLO ARRESTO 12 DIN 471 BRUN	PZ	2,000
51,0	3.8.02849	CERNIERA C40 F144	PZ	1,000
52,0	3.4.00584.93	VITE TCEI M8X16 ZINCATA	PZ	4,000
53,0	3.8.02866	SNODO SFERICO JA40-12-125 F144	PZ	1,000
54,0	3.8.02289	RACCORDO GOMITO 3199.08.13	PZ	2,000
55,0	3.8.00617	RACCORDO GOMITO GIR.31990613	PZ	2,000

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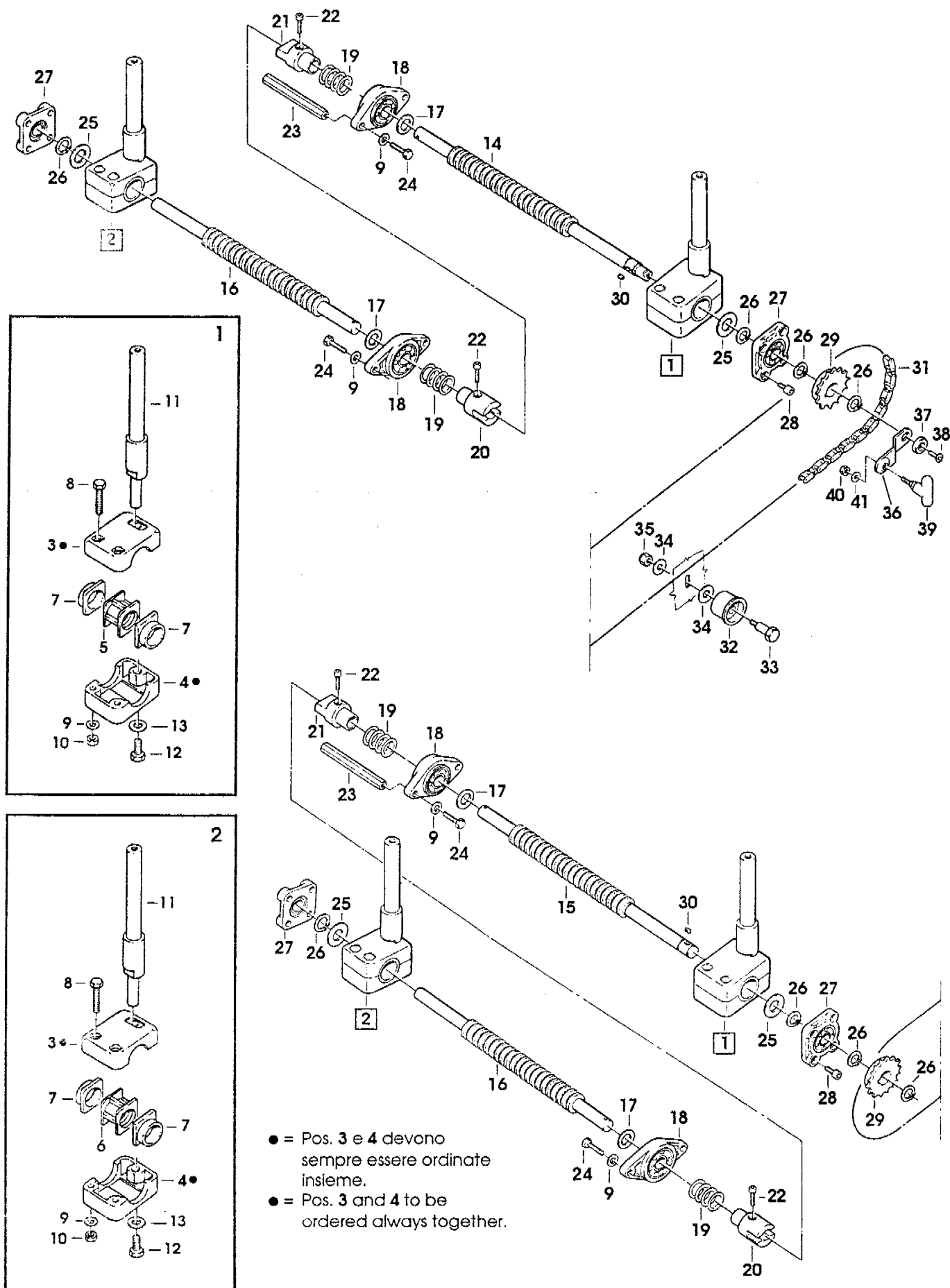
F144-SX

Set. 1995

Fig. 3723

Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3724,00	REGOLAZIONE GUIDE MOTORIZZ.	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.7.06397	BLOCCHETTO DX COMANDO MOTORIZZ ASS.F144	PZ	2,000
2,0	4.7.06398	BLOCCHETTO SX COMANDO MOTORIZZ ASS.F144	PZ	2,000
3,0	3.5.02484	SEMICORPO SUP.BLOCCHETTO VITI 800a/3M	PZ	4,000
4,0	3.5.02483	SEMICORPO INF.BLOCCHETTO VITI 800a/3M	PZ	4,000
5,0	3.1.01103	CHIOCCIOLA X BLOCC.VITI DX. 800af	PZ	2,000
6,0	3.1.01107	CHIOCCIOLA X BLOCCH.VITI SX 800a/3M	PZ	2,000
7,0	3.5.02485	BUSSOLA X BLOCCHETTI VITI 800a/3M	PZ	8,000
8,0	3.4.00325.93	VITE TE M6X50 ZINC.	PZ	8,000
9,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	16,000
10,0	3.4.00258.93	DADO AUTOBLOCCANTE ESAGON.M6 BASSO ZINC.	PZ	8,000
11,0	3.3.11723.93	PERNO FISSAGGIO MOTORIZZ.F144	PZ	4,000
12,0	3.4.00280.93	VITE TE M8X20 ZINCATA	PZ	4,000
13,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	4,000
14,0	3.3.11724	VITE CON ATTACCO MANOVELLA FILETTO SX F144	PZ	1,000
15,0	3.3.11725	VITE CONDOTTA FILETTO SX F144	PZ	1,000
16,0	3.3.11726	VITE FILETTO DX F144	PZ	2,000
17,0	3.3.10746.93	DISTANZIALE VITE/CUSCINETTO 800a/3M	PZ	4,000
18,0	4.3.04359	FLANGIA CENTRALE C/CUSCINETTO 800a/3M	PZ	4,000
19,0	3.7.00247.93	MOLLA /20,5X30X2,8 800a/3M	PZ	4,000
20,0	3.3.10273.93	INNESTO X VITE CENTRATURA 800a/3M	PZ	2,000
21,0	3.3.10754.93	INNESTO MASCHIO X VITE CENTRAT 800a/3M	PZ	2,000
22,0	3.4.00142.93	VITE TCEI M4X25 ZINCATA	PZ	4,000
23,0	3.3.11787.93	DISTANZIALE ES.10X116 F144	PZ	4,000
24,0	3.4.00267.93	VITE TE M6X30 ZINCATA	PZ	8,000
25,0	3.2.03615.93	DISTANZIALE X FERMO VITE 800a 3M	PZ	4,000
26,0	3.4.00067.92	ANELLO ARRESTO X ALBERO /15 BR	PZ	8,000
27,0	4.3.04358	SUPPORTO EST.VITE C/CUSCINETTO 800a/3M	PZ	4,000
28,0	3.4.00112.93	VITE TCEI M5X16 ZINCATA	PZ	16,000
29,0	3.3.10233.93	PIGNONE 3/8" Z=16 800a/3M	PZ	2,000
30,0	3.4.00700	LINGUETTA 5X5X10	PZ	2,000
31,0	3.4.01927	SPEZZONE CATENA 133 PASSI 3/8" 9,525 800a/3M	PZ	1,000
32,0	3.1.01035	RULLINO TENDICATENA 200A	PZ	1,000
33,0	3.3.08317.93	PERNO SPECIALE M6	PZ	1,000
34,0	3.4.00033.93	RONDELLA TRIPLA X VITE M6 ZINC	PZ	2,000
35,0	3.4.00258.93	DADO AUTOBLOCCANTE ESAGON.M6 BASSO ZINC.	PZ	1,000
36,0	3.2.05680.93	LEVA PER MANOVELLA MOTORIZZ. F144	PZ	1,000



F144-SX

Set. 1995

Fig. 3724

Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3724,00	REGOLAZIONE GUIDE MOTORIZZ.	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
37,0	3.3.02215.93	RONDELLA /6,5/30X5	PZ	1,000
38,0	3.4.00053.93	VITE TSVEI M6X16 ZINCATA	PZ	1,000
39,0	4.7.01732	MANOPOLA ASS.GIALLO RAL 1018	PZ	1,000
		SERIE "SM"		
40,0	3.4.00002.93	DADO M6 ZINCATO	PZ	1,000
41,0	3.4.00024.92	RONDELLA ELAST.X VITE M6 BRUN.	PZ	1,000

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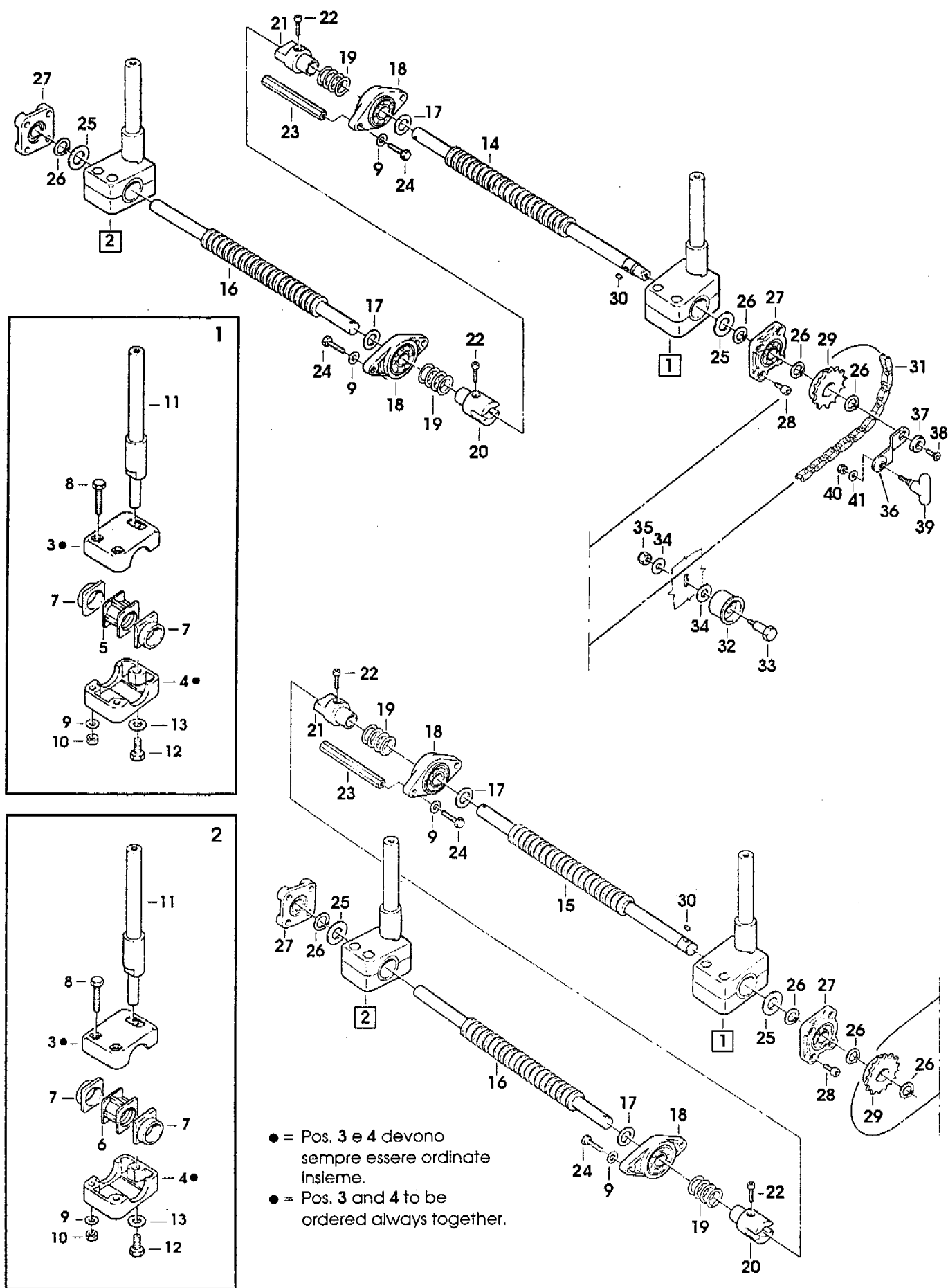




Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3725,00	SOLLEVAM.PIANO ALIMENTATORE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	3.3.11758.93	PERNO X ALIMENT.F144	PZ	2,000
2,0	4.3.04522	LEVA CON BUSSOLE F144	PZ	2,000
3,0	4.3.04523	LEVA DX CON BUSSOLE F144	PZ	1,000
4,0	4.3.04524	LEVA SX CON BUSSOLE F144	PZ	1,000
5,0	3.4.02149	BUSSOLA KU /25/28X30 F144	PZ	8,000
6,0	3.4.02150	BUSSOLA FLANGIATA KU /18/20/26 X 17 F144	PZ	2,000
7,0	3.3.11752.92	PERNO X LEVE ALIMENT.F144	PZ	4,000
8,0	3.3.11755.93	RONDELLA X PERNI LEVE ALIMENT. F144	PZ	12,000
9,0	3.4.00104.92	ANELLO SICUREZZA 25 DIN 471 BR	PZ	4,000
10,0	3.3.11753.93	RONDELLA X PIANO ALIMENT.F144	PZ	4,000
11,0	3.5.00515.93	DADO SPEC.AUTOBLOCC.M20X1 ZINC	PZ	8,000
12,0	3.3.11754.93	DISTANZ.X LEVE PIANO F144	PZ	4,000
13,0	3.3.08714.93	RONDELLA SPEC.20,5X35X5 F144	PZ	4,000
14,0	3.3.11764.93	TIRANTE X VITE SOLLEV.F144	PZ	1,000
15,0	3.3.11762	CHIOCCIOLA F144	PZ	1,000
16,0	3.4.00108.93	VITE TCEI M5X20 ZINCATA	PZ	2,000
17,0	3.3.02215.93	RONDELLA /6,5/30X5	PZ	3,000
18,0	3.4.00053.93	VITE TSVEI M6X16 ZINCATA	PZ	3,000
19,0	3.3.11760.93	VITE X SOLLEVATORE F144	PZ	1,000
20,0	3.3.08736.93	BUSSOLA SPINATA SM2	PZ	2,000
21,0	3.4.00273	SPINA ELASTICA / 4X28	PZ	2,000
22,0	3.4.00247	CUSCINETTO REGGISPINTA 51103	PZ	2,000
23,0	3.1.01228	BUSSOLA X REGGISPINTA F144	PZ	2,000
24,0	3.5.00780	BLOCCHETTO PER VITE	PZ	1,000
25,0	4.5.04213.93	SQUADRETTA CON BUSSOLA SM11 12AF/XL33/35/36	PZ	2,000
26,0	3.2.01852.47	PIASTRINA CON ASOLA SML2	PZ	1,000
27,0	3.3.07876.93	VITE TE M6X16 SPEC.	PZ	4,000
28,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	4,000
29,0	3.2.00867.93	LEVA X MANOPOLA SM/XL/3M	PZ	1,000
31,0	4.7.01732	MANOPOLA ASS.GIALLO RAL 1018 SERIE "SM"	PZ	1,000
32,0	3.4.00024.92	RONDELLA ELAST.X VITE M6 BRUN.	PZ	1,000
33,0	3.4.00002.93	DADO M6 ZINCATO	PZ	1,000

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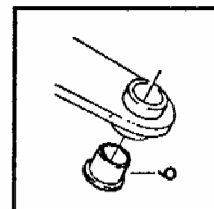
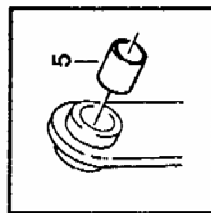
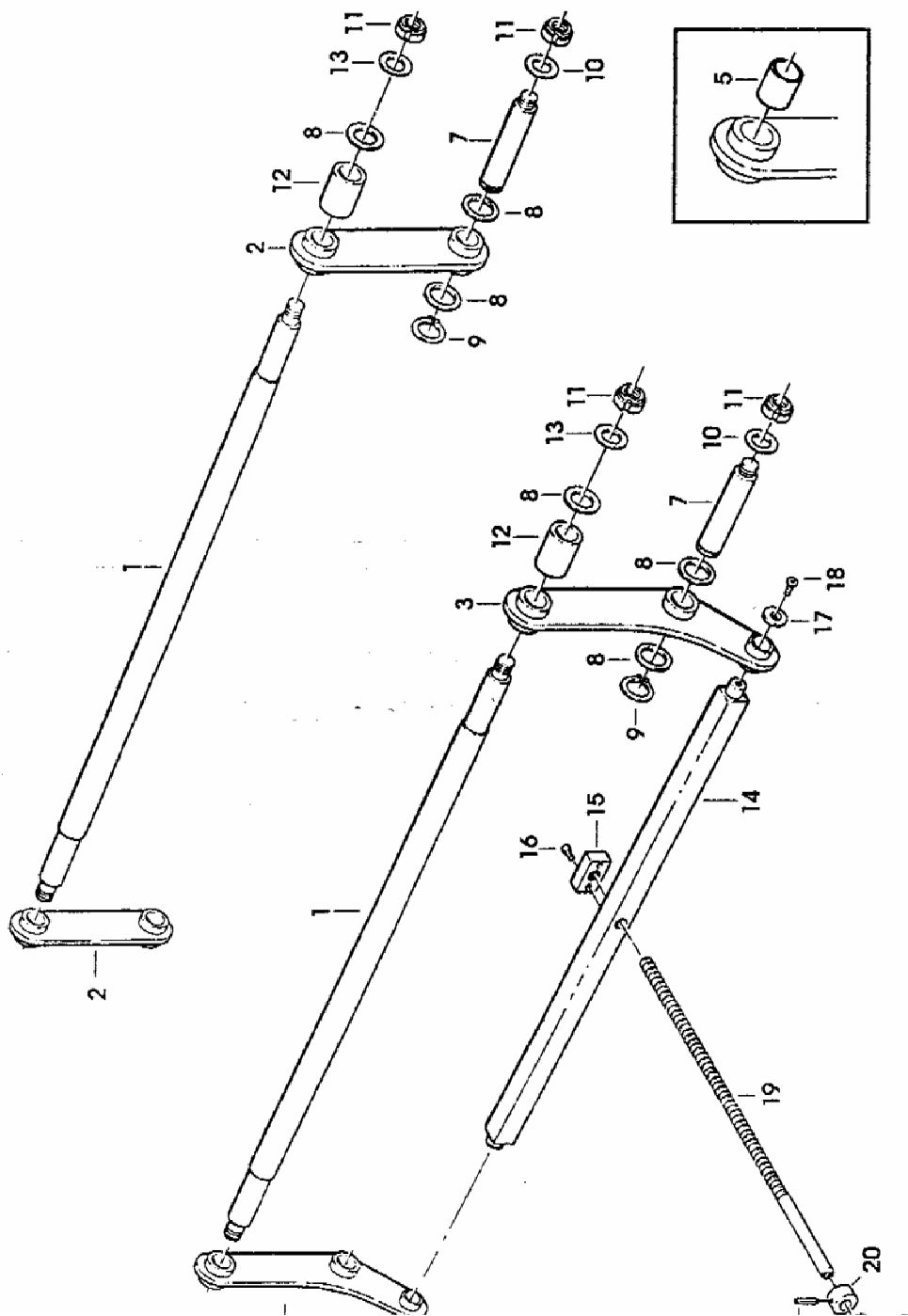
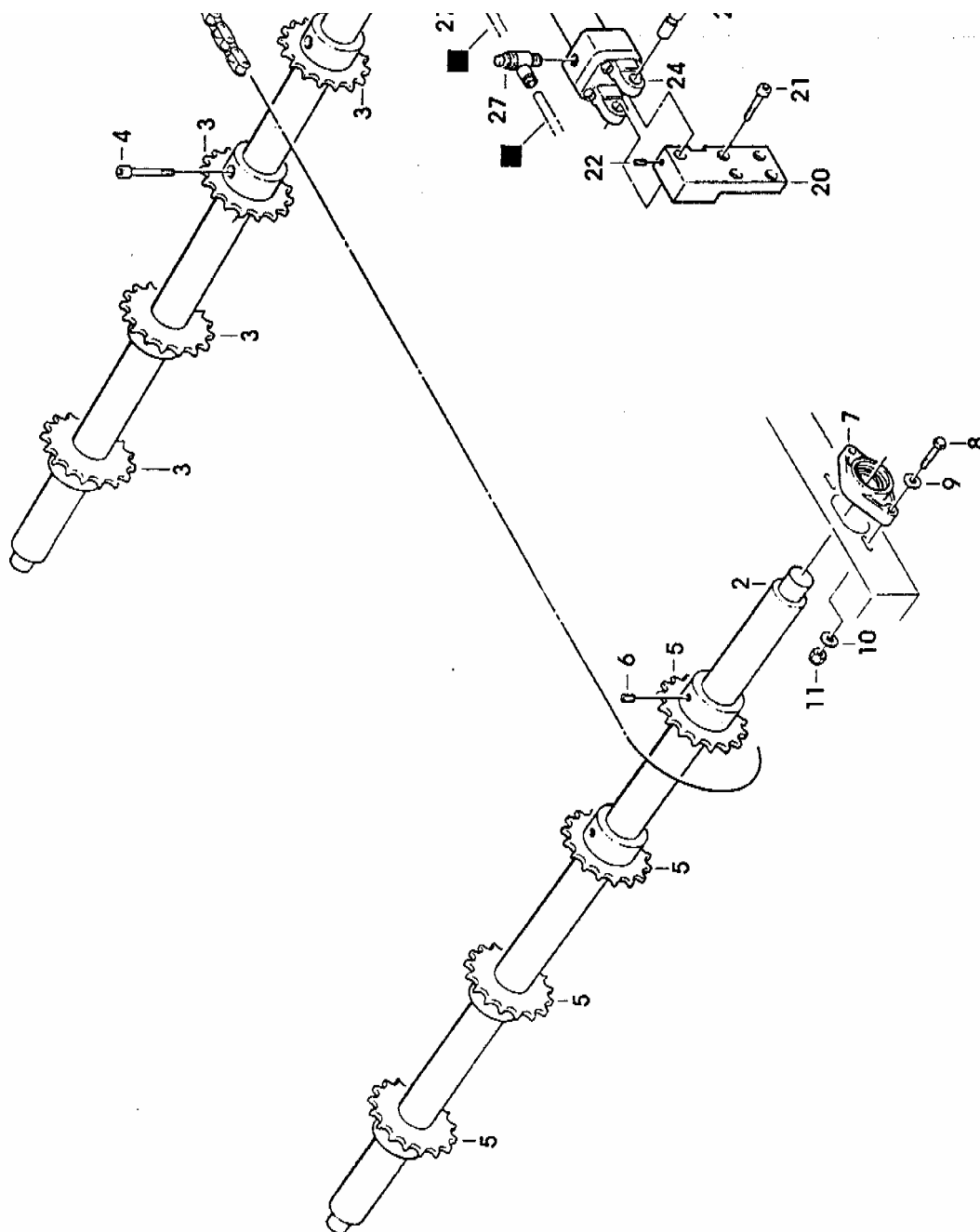


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3726,00	AVANZAMENTO SCATOLE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	3.3.11763.93	ALBERO INGR.CONDUTTORI F144	PZ	1,000
2,0	3.3.11765.93	ALBERO INGR.CONDOTTI F144	PZ	1,000
3,0	3.3.11734.93	PIGNONE Z=24 3/8" FISS.CON	PZ	4,000
		VITE F144		
4,0	3.4.00500.93	VITE TCEI M6X40 ZINCATA	PZ	4,000
5,0	3.3.11735.93	PIGNONE Z=24 3/8" FISS.CON	PZ	4,000
		GRANI F144		
6,0	3.4.01794.92	GRANO EIPC M6X8	PZ	4,000
7,0	4.3.04525	FLANGIA CON CUSCINETTO F144	PZ	4,000
8,0	3.4.00270.93	VITE TE M6X25 ZINCATA	PZ	8,000
9,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	8,000
10,0	3.4.00033.93	RONDELLA TRIPLA X VITE M6 ZINC	PZ	4,000
11,0	3.4.00258.93	DADO AUTOBLOCCANTE ESAGON.M6	PZ	4,000
		BASSO ZINC.		
12,0	3.4.02153.98	ANELLO CATENA INOX 3/8" PASSI	PZ	4,000
		228 CON GIUNZIONE F144		
17,0	3.3.11747.93	PERNO ATTACCO TESTA A SNODO	PZ	1,000
		F144		
18,0	3.4.00219.93	RONDELLA PIANA X VITE M10 ZINC	PZ	2,000
19,0	3.4.00438.93	DADO AUTOBLOCCANTE M10 BASSO	PZ	2,000
20,0	3.3.11684.93	STAFFA ATTACCO CILINDRO F144	PZ	1,000
21,0	3.4.00160.93	VITE TCEI M6X20 ZINCATA	PZ	4,000
22,0	3.4.00154.92	GRANO EIPC M5X8 BRUNITO	PZ	1,000
23,0	3.8.02850	CILINDRO C65 D 32-40 C	PZ	1,000
		F144		
24,0	3.8.02853	CERNIERA C65 D32 F144	PZ	1,000
25,0	3.3.11658.92	PERNO ATTACCO CILINDRO F144	PZ	1,000
26,0	3.4.01010.93	TESTA A SNODO M10X1,25 ZINCATA	PZ	1,000
27,0	3.8.02929	REGOLAT.DI FLUSSO EAS 2201F	PZ	2,000
		01-06 F144		
28,0	3.3.12649.92	BUSSOLA X PERNO F104-N	PZ	1,000
29,0	3.4.02273.92	SPINA ELASTICA /5X40 F144	PZ	1,000
30,0	4.3.04615	BIELLA CON TORRINGTON F144-SX	PZ	1,000
31,0	3.4.02268	TORRINGTON RC8-162117 F144	PZ	1,000
32,0	3.3.12651.92	RONDELLA SPEC.F104-N	PZ	1,000
33,0	3.4.00104.92	ANELLO SICUREZZA 25 DIN 471 BR	PZ	1,000

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F144-SX

Set. 1995

Fig. 3726

Figura	Descrizione figura	Magaz.	Prodotto	Descrizione	
3727,00	COLONNA/PRESSATORE SUPERIORE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT	
Posizione	Ricambio	Descrizione		U.M.	Quantita'
1,0	4.5.04492.47	COLONNA C/INS.F144		PZ	1,000
2,0	3.2.04308.47	STAFFA INF.COLONNA F144		PZ	1,000
3,0	3.4.00122.93	VITE TCEI M8X20 ZINCATA		PZ	6,000
4,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.		PZ	6,000
5,0	3.3.11700.83	ASTA PER COLONNA F144 CROMATA		PZ	2,000
6,0	4.3.04520	CARRELLO X COLONNA C/BUSSOLE F144		PZ	1,000
7,0	3.1.01236	BUSSOLA X CARRELLO F144		PZ	4,000
8,0	3.4.00321.93	VITE TE M10X20 ZINCATA		PZ	4,000
9,0	3.4.01170.92	RONDELLA DENT. EST./10 BRUNITA		PZ	4,000
10,0	3.2.04618.93	SQUADRETTA X RIGHELLA MILLIM. F144		PZ	1,000
11,0	3.4.00005.93	VITE TCBCR M4X6 ZINC.		PZ	2,000
12,0	3.4.00061.93	RONDELLA PIANA X VITE M5 ZINC.		PZ	2,000
13,0	3.3.06201.93	VITE SOLLEVAMENTO		PZ	1,000
14,0	3.3.09572	CHIOCCIOLA PER VITE SM11		PZ	1,000
15,0	3.3.11705	BUSSOLA DI GUIDA X VITE SOLL. F144		PZ	1,000
16,0	3.5.01791.93	BUSSOLA X VITE SOLLEV. 200A-700A 3M		PZ	1,000
17,0	3.4.00599.92	GRANO EIPP M6X8 BRUN.		PZ	1,000
18,0	3.1.00583	BUSSOLA		PZ	1,000
19,0	3.3.12009.93	BUSSOLA FISSAGGIO VITE SOLLEV. F144		PZ	1,000
20,0	3.4.00142.93	VITE TCEI M4X25 ZINCATA		PZ	1,000
21,0	3.2.00867.93	LEVA X MANOPOLA SM/XL/3M		PZ	1,000
22,0	3.3.02215.93	RONDELLA /6,5/30X5		PZ	1,000
23,0	3.4.00053.93	VITE TSVEI M6X16 ZINCATA		PZ	1,000
24,0	4.7.01732	MANOPOLA ASS.GIALLO RAL 1018 SERIE "SM"		PZ	1,000
25,0	3.4.00024.92	RONDELLA ELAST.X VITE M6 BRUN.		PZ	1,000
26,0	3.4.00002.93	DADO M6 ZINCATO		PZ	1,000
27,0	4.4.04870.98	SCIVOLO SUP.ASS.F144		PZ	1,000
28,0	3.4.00577.93	VITE TCEI M6X16 ZINCATA		PZ	4,000
29,0	3.8.01216	PASSACAVO GOMMA PER FORO /16,5		PZ	1,000

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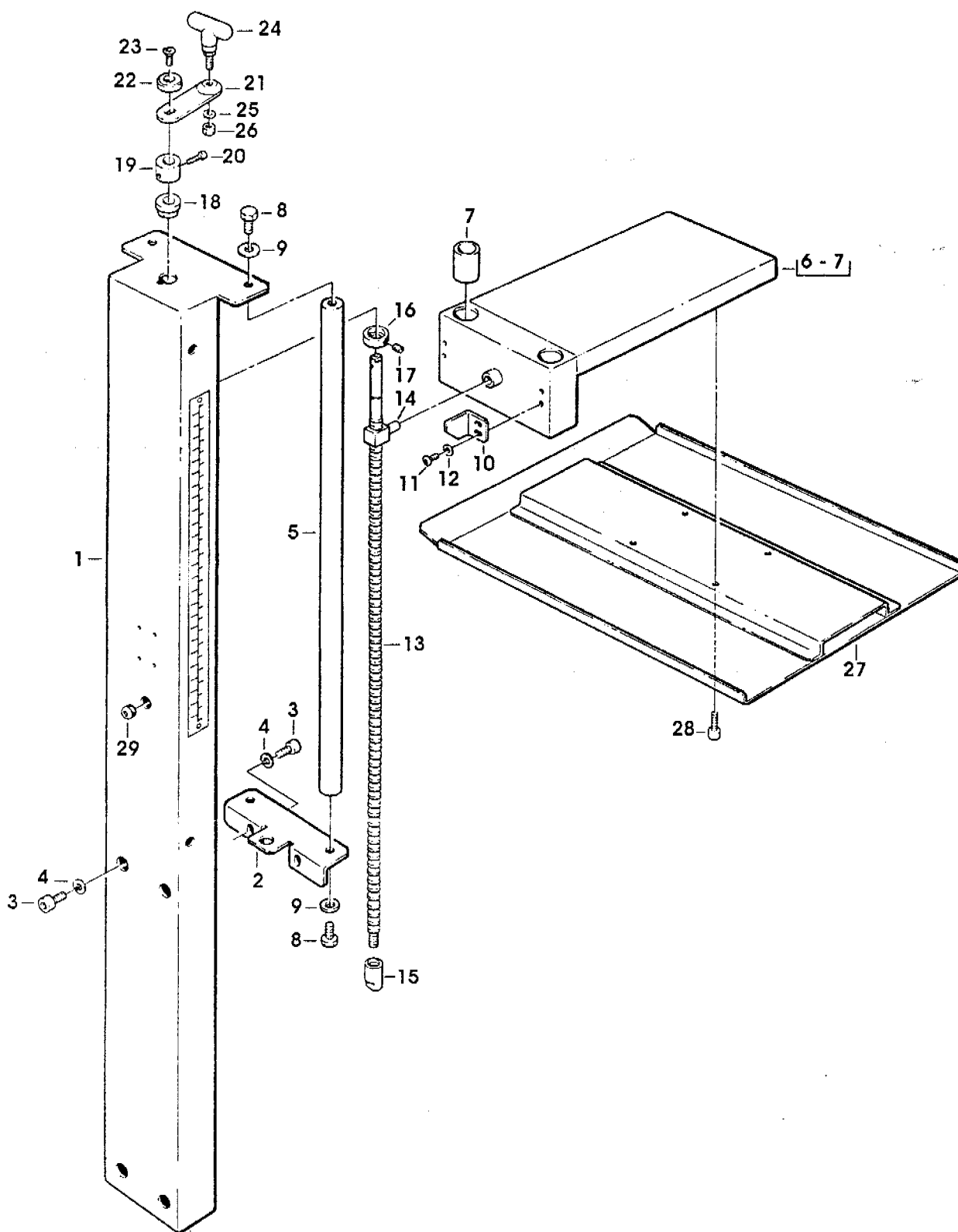


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3729,00	SCATOLA/IMP.PNEUMATICO	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione Ricambio	Descrizione	U.M.	Quantita'
1,0	4.5.D4480.47	SCATOLA IMP.PNEUM.CON INS.F144	PZ 1,000
2,0	3.4.D0122.93	VITE TCEI M8X20 ZINCATA	PZ 6,000
3,0	3.4.D0123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ 6,000
4,0	4.5.D4524.47	PANNELLO X SCATOLA IMP.PNEUM. CON INS.F144	PZ 1,000
5,0	3.8.D1132	REGOLATORE VELOCITA' GRA-1/4"B	PZ 6,000
6,0	3.8.D2289	RACCORDO GOMITO 3199.08.13	PZ 6,000
7,0	3.8.D0617	RACCORDO GOMITO GIR.31990613	PZ 2,000
8,0	3.8.D0674	RACCORDO DIR.M.CIL.31010613	PZ 2,000
9,0	3.8.D1393	RACCORDO DIRITTO 31010813 CF13	PZ 4,000
10,0	3.2.D4250.93	SQUADRETTA X GR.REGOLATORE F144	PZ 1,000
11,0	3.4.D0577.93	VITE TCEI M6X16 ZINCATA	PZ 10,000
12,0	3.4.D1139.93	VITE TCEI M6X65 ZINCATA	PZ 6,000
13,0	3.4.D0258.93	DADO AUTOBLOCCANTE ESAGON.M6 BASSO ZINC.	PZ 6,000
14,0	3.8.D2347	REGOLATORE DI FLUSSO AS2000F- 06 800af	PZ 2,000
15,0	3.8.D2961	BATTERIA DI 14 ELETTROVALVOLE SMC F144	PZ 1,000
16,0	3.8.D2970	SILENZIATORE X RACCORDO /10 F144/93	PZ 2,000
17,0	3.8.D2969	TAPPO KQP-10 F144/93	PZ 1,000
18,0	3.8.D2968	TAPPO KQP-08 F144/93	PZ 5,000
19,0	3.4.D0112.93	VITE TCEI M5X16 ZINCATA	PZ 2,000
20,0	3.3.11827.95A	SOTTOBASE ELETTROV.EVP742 F144	PZ 1,000
21,0	3.4.D0137.93	VITE TCEI M6X50 ZINCATA	PZ 2,000
22,0	3.8.D2962	ELETTROVALVOLA EVP742 R-BY-04F F144	PZ 2,000
23,0	3.1.D1238	GUARNIZIONE X EVP742 F144	PZ 2,000
24,0	3.4.D2245.93	VITE TCEI M5X65 ZINC.	PZ 8,000
25,0	3.8.D0622	RACCORDO GOMITO GIR.31990410	PZ 4,000
26,0	3.8.D2883	RACCORDO A GOMITO RA 022 1/2" - 1/2" F144	PZ 3,000
27,0	3.8.D2882	NIPPLO CONICO RA 012 1/2"-1/2" F144	PZ 1,000
28,0	3.8.D2872	RACCORDO RTPR-1/2" F144	PZ 2,000
29,0	3.8.D3022	FILTRO FB20 1/2" F144 (VUOTOTECNICA)	PZ 1,000
30,0	3.8.D2881	RIDUZIONE RA 014 1/2" - 1/4" F144	PZ 1,000
31,0	3.8.D1108	RACCORDO RA 022-1/4-1/4	PZ 1,000
32,0	3.8.D3021	FILTRO FB5 1/4" (VUOTOTECNICA) F144	PZ 1,000
33,0	3.8.D3020	RACCORDO RA 024 1/4 1/4 F144	PZ 1,000
34,0	3.8.D0621	RIDUZIONE RA 014 1/4"-1/8"	PZ 2,000
35,0	3.8.D2983	VACUOSTATO EZSM1-121L F144	PZ 1,000
36,0	3.8.D2876	SILENZIATORE SEB-1/2" F144	PZ 1,000
38,0	3.8.D1983	VALVOLA DI SICUR.MFHE-3-1/4" SM44 PLC	PZ 1,000
39,0	3.8.D0276	BOBINA 24V.50/60HZ MSFW-24	PZ 1,000
40,0	3.8.D0887	NIPPLO CONICO RA 012 1/4"-1/4"	PZ 2,000
41,0	3.8.D1049	DISTRIBUTORE FR-4-1/4-C	PZ 1,000

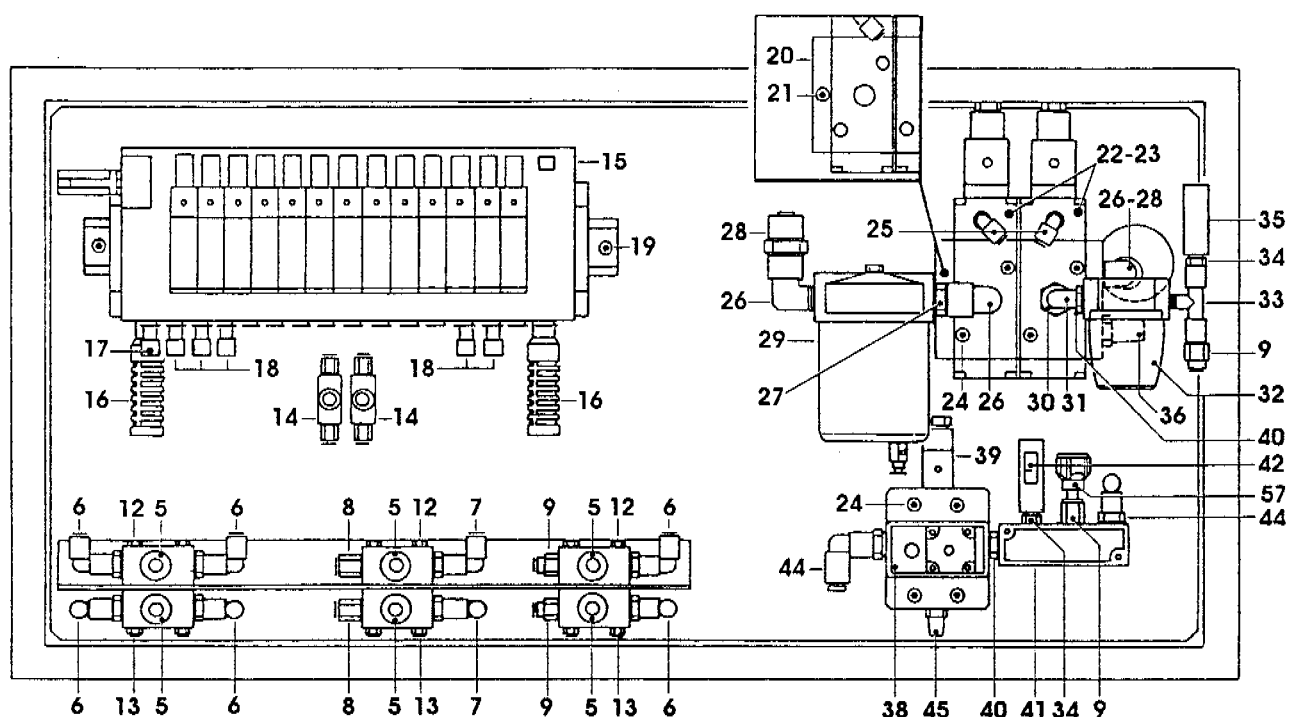
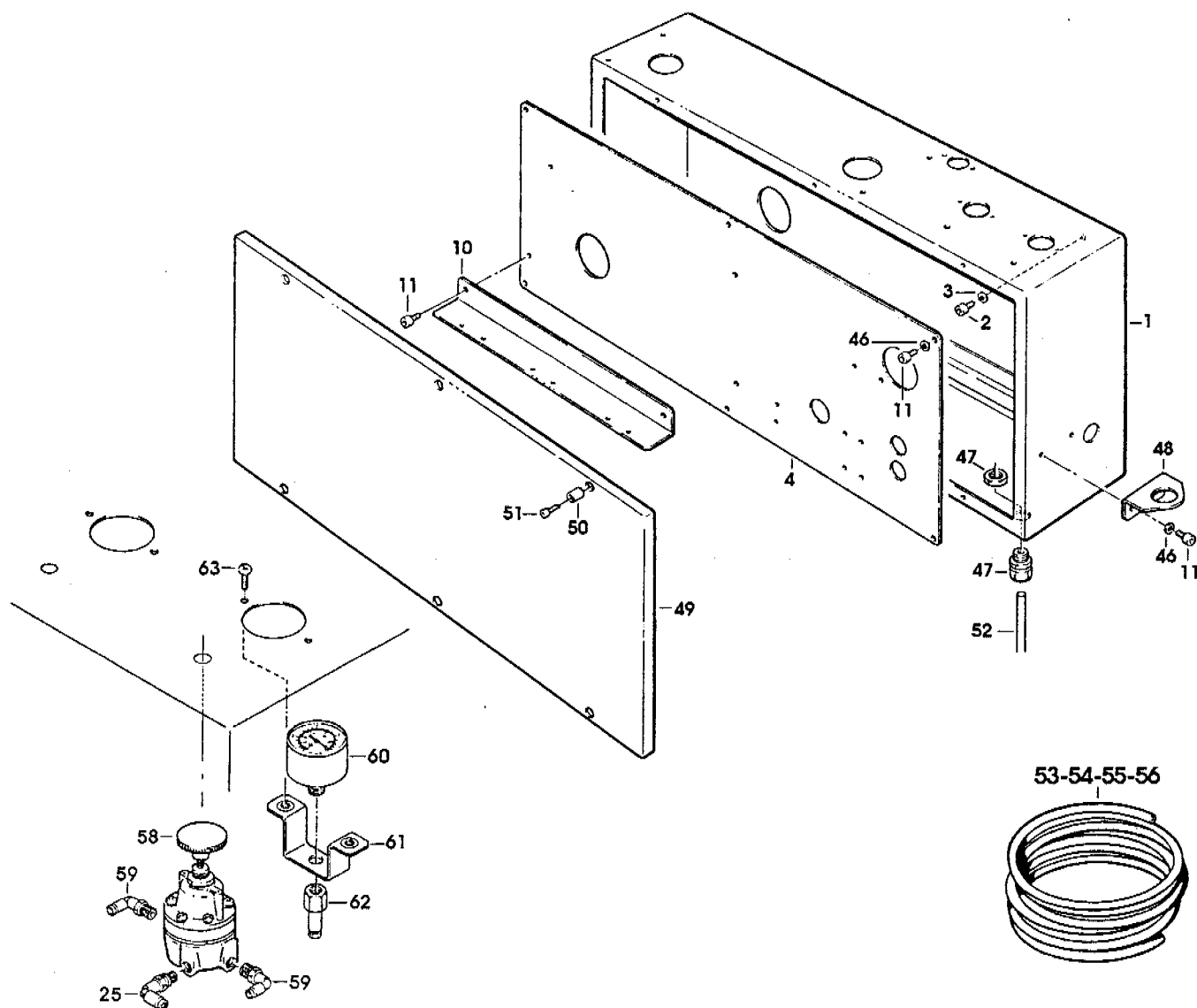




Figura	Descrizione figura	Magaz.	Prodotto	Descrizione	
3729,00	SCATOLA/IMP.PNEUMATICO	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT	
Posizione	Ricambio	Descrizione		U.M.	Quantita'
42,0	3.8.02982	PRESSOSTATO IS1000 F01 X201 F144		PZ	1,000
44,0	3.8.00921	RACCORDO L GIREVOLE 31991013		PZ	2,000
45,0	3.8.00448	SILENZIATORE 1/4"		PZ	1,000
46,0	3.4.02028.92	RONDELLA DENTELL. EST. M6		PZ	8,000
47,0	3.8.00854	BOCCHETTONE SKINTOP ST 16		PZ	1,000
48,0	3.2.04249.93	SQUADRETTA ATTACCO FILTRO REG. F144		PZ	1,000
49,0	3.2.04198.47	CARTER X SCATOLA IMP.PNEUM. F144		PZ	1,000
50,0	3.1.00981.05	BUSSOLA 200A		PZ	6,000
51,0	3.4.00015.93	VITE TCEI M6X25 ZINCATA		PZ	6,000
52,0	3.8.03072	CAVO VINIL. 4X2,5 (MT.5) F144		PZ	1,000
53,0	3.8.01630	TUBO PNEUM.D4/2,5 (5 MT.)		PZ	1,000
54,0	3.8.01631	TUBO PNEUM.D6/4 (5 MT.)		PZ	6,000
55,0	3.8.02417	TUBO PNEUM.D8X6 NERO (5 M) X 800af		PZ	2,000
56,0	3.8.03053	TUBO PNEUM.D.10X8 NERO (5 MT.)		PZ	1,000
57,0	3.8.03165	DOPPIA Y 31430408 F104		PZ	1,000
58,0	3.8.01960	REGOLATORE DI PRECIS.EIR 201		PZ	2,000
59,0	3.8.02984	RACCORDO A GOMITO KQL 04-02S MARKO		PZ	4,000
60,0	3.8.01594	MANOMETRO 0-4 ATM		PZ	2,000
61,0	4.5.00029.93	CAVALLOTTO FISS.MANOM.C/INS. XL45/46/451/461/700r		PZ	2,000
62,0	3.8.01654	RACCORDO DIR.FEMM.CIL.31140410		PZ	2,000
63,0	3.4.01708.93	VITE TESTA MEZZA TONDA M5X16		PZ	4,000

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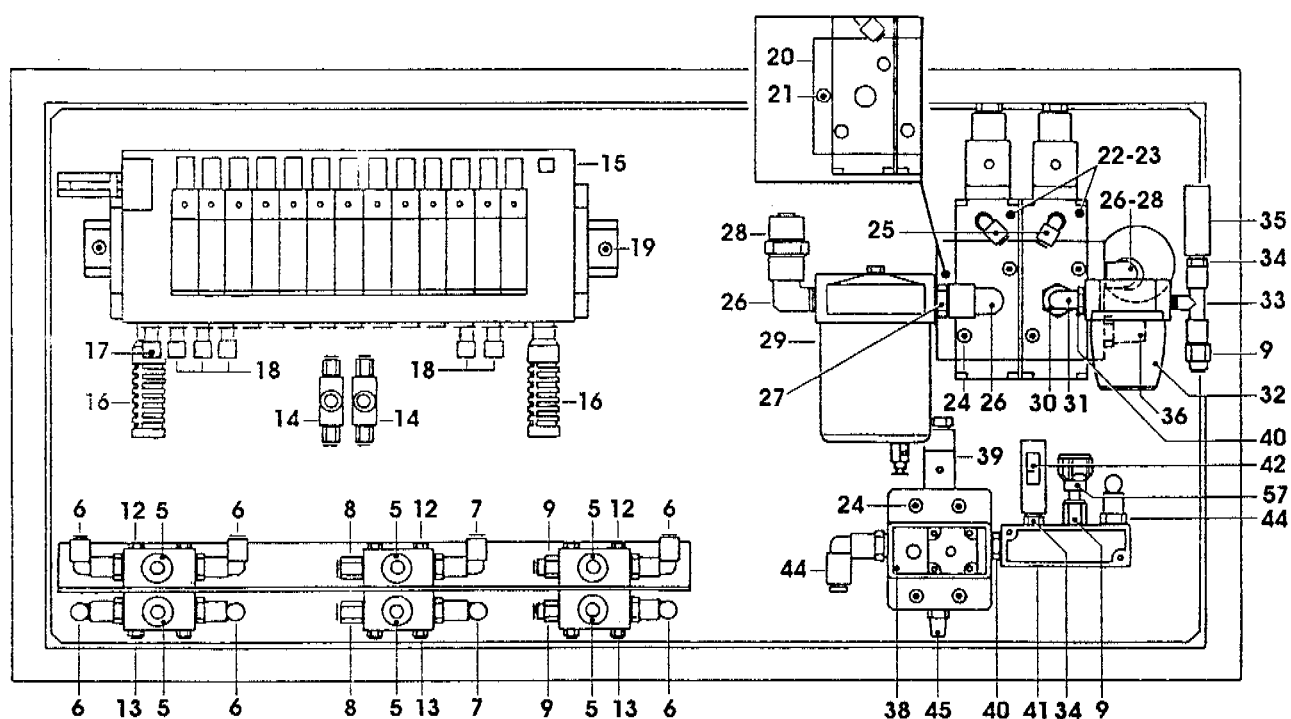
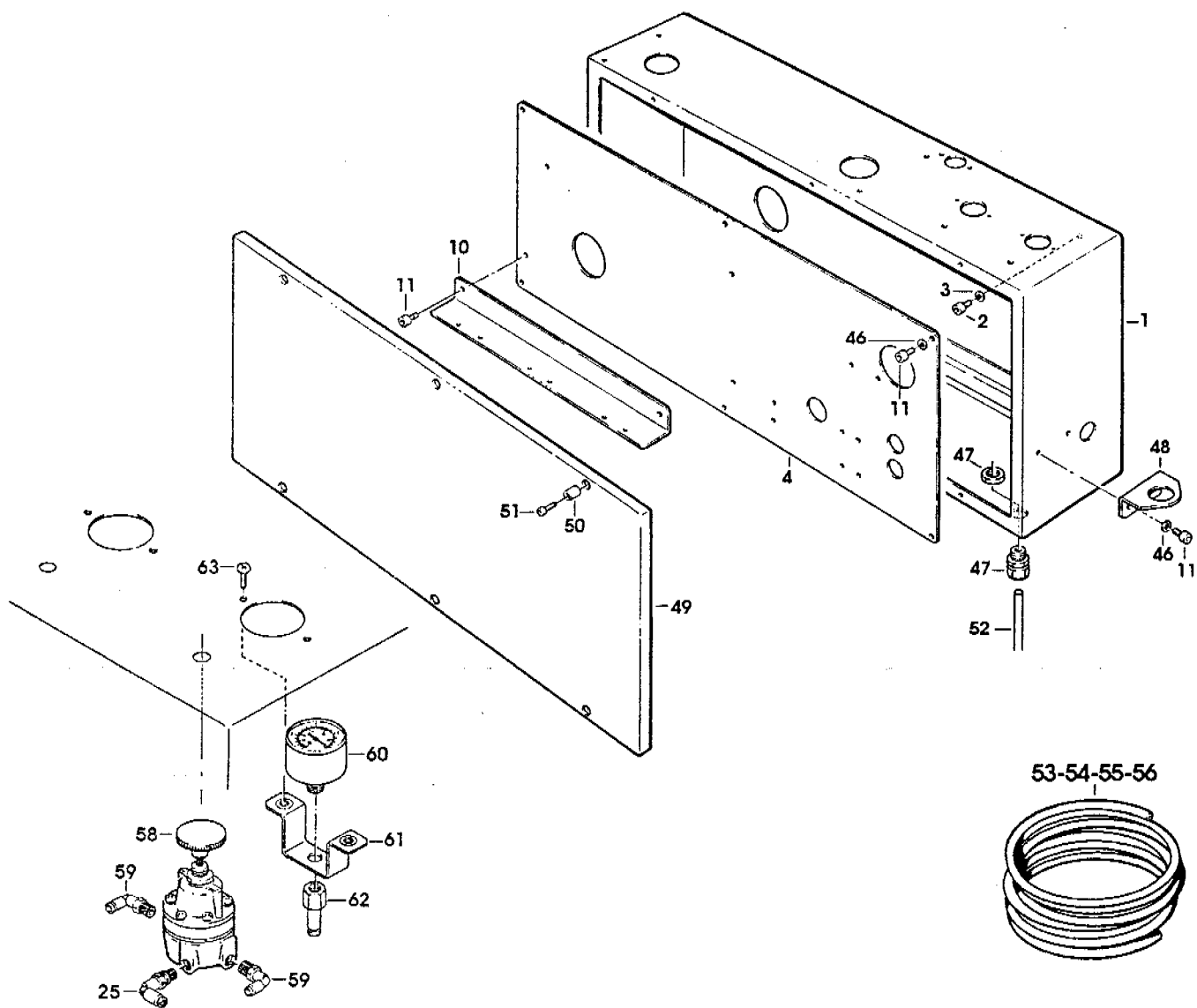
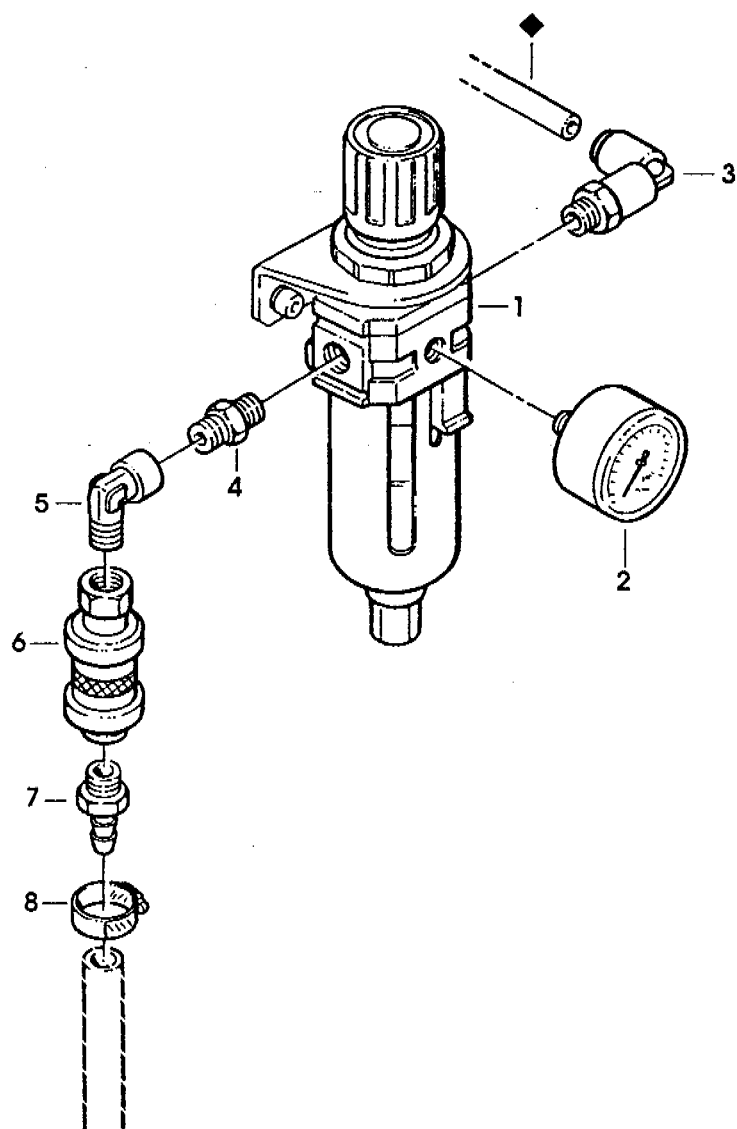


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3730,00	FILTRO RIDUTTORE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	3.8.02753	REGOLATORE PRESS.EAW3000 F03-D XL300	PZ	1,000
2,0	3.8.00670	MANOMETRO 0-12 ATM	PZ	1,000
3,0	3.8.00935	RACCORDO L GIREVOLE 31991017	PZ	1,000
4,0	3.8.01730	NIPPLO CONICO RA012-3/8"-3/8"	PZ	1,000
5,0	3.8.02887	RACCORDO A GOMITO RA 022 3/8" -3/8" F144	PZ	1,000
6,0	3.8.02886	VALVOLA A MANICOTTO 3/8" F144	PZ	1,000
7,0	3.8.01086	PORTAGOMMA RA 030 3/8"X9	PZ	1,000
8,0	3.4.00653	FASCETTA STRINGITUBO /14-24	PZ	1,000

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◆ = Vedi/See Fig.3729 Pos.56

Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3731,00	QUADRO ELETTRICO		0 7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.5.04521.40	CASSETTA IMP.ELETTRICO C/INS. F144	PZ	1,000
2,0	3.4.00122.93	VITE TCEI M8X20 ZINCATA	PZ	4,000
3,0	3.4.00063.92	ROSETTA ELAST.GROWER DIN 7980 (SEZ.QUADRATA) X VITE M8	PZ	4,000
4,0	3.4.00655.93	RONDELLA TRIPLA X VITE M8 ZINC	PZ	4,000
5,0	4.4.04883.96	CERNIERA FISSA ASS.F144	PZ	2,000
6,0	3.4.01749.93	VITE TBEI M6X12 ZINC.	PZ	4,000
7,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	4,000
8,0	4.4.04884.96	CERNIERA MOBILE ASS.F144	PZ	2,000
9,0	3.3.11647.93	PERNO X CERNIERA CASSETTA IMP. ELETTRICO F144	PZ	2,000
10,0	4.5.04479.47	SPORTELLLO X CASSETTA IMPIANTO ELETTRICO C/INS.F144	PZ	1,000
11,0	3.4.00577.93	VITE TCEI M6X16 ZINCATA	PZ	4,000
12,0	3.4.00033.93	RONDELLA TRIPLA X VITE M6 ZINC	PZ	4,000
13,0	3.4.02154.05	GOMMA SPUGNA /14 F144	MT	2,500
14,0	3.4.02130	SERRATURA X PORTELLO F144	PZ	1,000
15,0	3.3.11685.93	CANNOTTO ATTACCO LAMPADA F144	PZ	1,000
16,0	3.3.11210.93	DADO SPECIALE FIL./22X1,5 H=8 SM44/SM44-PLC/800rf	PZ	1,000
17,0	3.8.02179	COLONNA LUMINOSA FISSA ARANCIO XVA-L35 700R	PZ	1,000
18,0	3.8.00874	LAMPADINA BA15D 5W 30V	PZ	1,000
19,0	3.3.11648.93	DISTANZIALE X QUADRO ELETTRICO F144	PZ	4,000
20,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	8,000
21,0	3.4.00283.93	DADO AUTOBLOCCANTE M8 BASSO	PZ	8,000
22,0	3.2.04210.96	PANNELLO QUADRO ELETTRICO F144	PZ	1,000
25,0	3.8.01817	ALIMENTATORE STABILIZZATO 24VCC-3A	PZ	1,000
27,0	3.8.02368	INTERRUTTORE GV1-M07 A 1,6-2,5 800af TELEMECANIQUE	PZ	1,000
28,0	3.8.02369	INTERRUTTORE GV1-M08 A 2,5-4,0 800af TELEMECANIQUE	PZ	1,000
29,0	3.8.02370	INTERRUTTORE GV1-M10 A 4,0-6,0 800af TELEMECANIQUE	PZ	1,000
30,0	3.8.02933	BLOCCO CONTATTI GV1-A01 F144	PZ	2,000
31,0	3.8.01814	TELERUTTORE CA4-5C-10-24VCC	PZ	1,000
32,0	3.8.01913	CONTATTORE CA4-9C-10 24V AC	PZ	1,000
33,0	3.8.02846	RELE' G2R1 24VCC	PZ	2,000
34,0	3.8.02775	ZOCCOLO ZVP3	PZ	2,000
39,0	3.8.02731	BLOCCO ESTREMITA' PICCOLO	PZ	2,000
40,0	3.8.02689	MORSETTO PASS.GRIGIO VU 4-4	PZ	3,000
41,0	3.8.02699	COPERTURA SINGOLA X MORSETTO VU 4-4	PZ	3,000
42,0	3.8.02688	MORSETTO PASS./TERRA VUPE 4-4	PZ	4,000
43,0	3.8.02696	PIASTRA DI SEPARAZIONE VT 4-2,5/4	PZ	2,000
44,0	3.8.02686	MORSETTO PASS.GRIGIO VU 4-2,5	PZ	48,000
45,0	3.8.02903	MORSETTO DOPPIO CON PONTICELLO VUET 4-4L SERIE SM/L	PZ	10,000
46,0	3.8.02904	PIASTRA ESTREMITA' VAET 4-4 SERIE SM/L	PZ	1,000

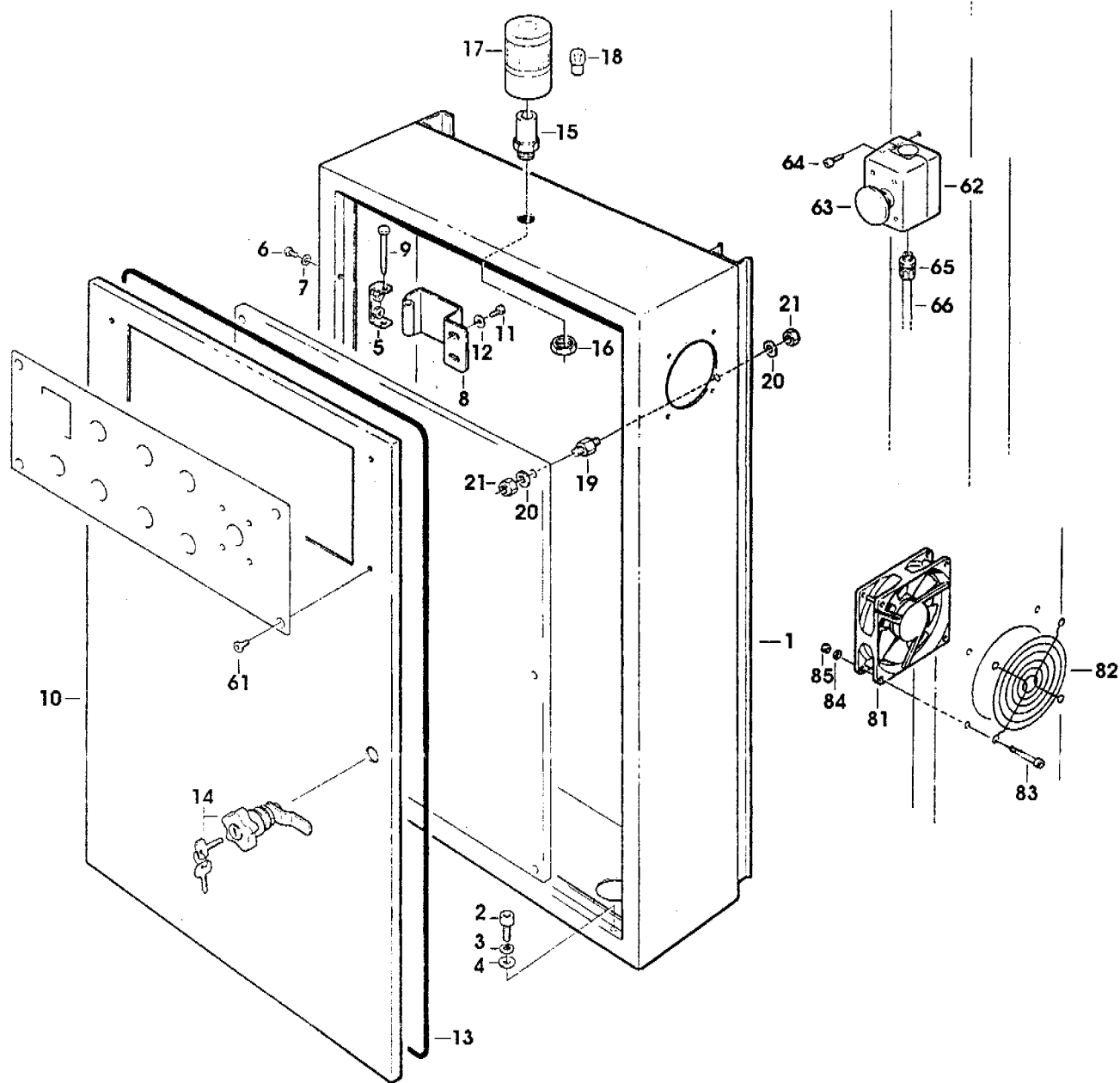


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione	
3731,00	QUADRO ELETTRICO	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT	
Posizione	Ricambio	Descrizione		U.M.	Quantita'
47,0	3.8.02694	PIASTRA D'ESTREMITA' VA4-2,5/4		PZ	1,000
48,0	3.2.04209.95	PULSANTIERA X PORTELLO F144		PZ	1,000
49,0	3.8.00540	CONTAINPULSI ELETTRON. H7CR-B		PZ	1,000
51,0	3.8.02318	ELEMENTO DI CONTATTO DE3-10		PZ	5,000
52,0	3.8.02497	LAMPADA DI SEGNALAZ.BIANCA DL3 -R-W SERIE L		PZ	1,000
53,0	3.8.02465	ELEMENTO LAMPADA DEL 3 L		PZ	3,000
54,0	3.8.01237	LAMPADINA INCAND.BA9S 36V 2W		PZ	3,000
55,0	3.8.02462	PULSANTE GIALLO DT3-L-Y		PZ	1,000
57,0	3.8.02458	SELETTORE DSK3-L-A L		PZ	1,000
58,0	3.8.02560	PULSANTE A FUNGO DP3-L-R SM44 PLC		PZ	1,000
59,0	3.8.02112	ELEMENTO DI CONTATTO DE3-01		PZ	2,000
60,0	3.8.02459	PULSANTE VERDE DT3-L-G		PZ	1,000
61,0	3.4.00403.92	VITE TSVEI M5X16 BR.		PZ	4,000
62,0	3.8.02110	CASSETTA PER TASTO A RITENUTA		PZ	1,000
63,0	3.8.02111	PULSANTE D'EMERGENZA DN3-50-01 ROSSO		PZ	1,000
64,0	3.4.00108.93	VITE TCEI M5X20 ZINCATA		PZ	2,000
65,0	3.8.02141	BOCCHETTONE SKINTOP ST13,5		PZ	1,000
66,0	3.8.02310	CAVO FROR 07 2X1 (5 M)		PZ	1,000
67,0	3.8.03153	TRASFORMATORE 100VA 0-220-380 0-24V F144		PZ	1,000
68,0	4.7.06988	INTERRUTT.LA2-16 ASS.F144		PZ	1,000
69,0	3.8.02498	LAMPADA DI SEGNALAZ.ROSSA DL3- R-R SERIE L		PZ	1,000
70,0	3.8.03344	TEMPORIZZATORE H5CR-B F144		PZ	1,000
71,0	3.8.03380	CPU CQM1-CPU11 F144		PZ	1,000
72,0	3.8.03381	ALIMENTATORE CQM1-PA203 F144		PZ	1,000
73,0	3.8.03382	INGRESSO 8 PUNTI CQM1-ID 211 F144		PZ	1,000
74,0	3.8.03383	USCITA 8 PUNTI CQM1-OC221 F144		PZ	1,000
75,0	3.8.03384	USCITA 16 PUNTI CQM1-OC222 F144		PZ	1,000
76,0	3.8.03385	MEMORIA CQM1-ME/4K F144		PZ	1,000
77,0	3.8.02371	INTERRUTTORE GV1-M14 A 6.0-10 800af TELEMECANIQUE		PZ	1,000
78,0	3.8.03025	INTERRUTT.AUTOMATICO GB2-CB07 F144		PZ	2,000
79,0	3.8.03026	INTERRUTT.AUTOMATICO GB2-CBR F144		PZ	1,000
80,0	3.8.03479	SELETTORE DSK 3LD		PZ	1,000
81,0	3.8.03607	VENTILATORE ASSIALE 92X92X25 24VDC F144		PZ	1,000
82,0	3.8.03608	GRIGLIA DI PROTEZIONE MOD.92 F144		PZ	1,000
83,0	3.4.00315.93	VITE TCEI M4X35 ZINCATA		PZ	4,000
84,0	3.4.00043.93	RONDELLA PIANA X VITE M4 ZINC.		PZ	4,000
85,0	3.4.00001.93	DADO M4 ZINCATO		PZ	4,000

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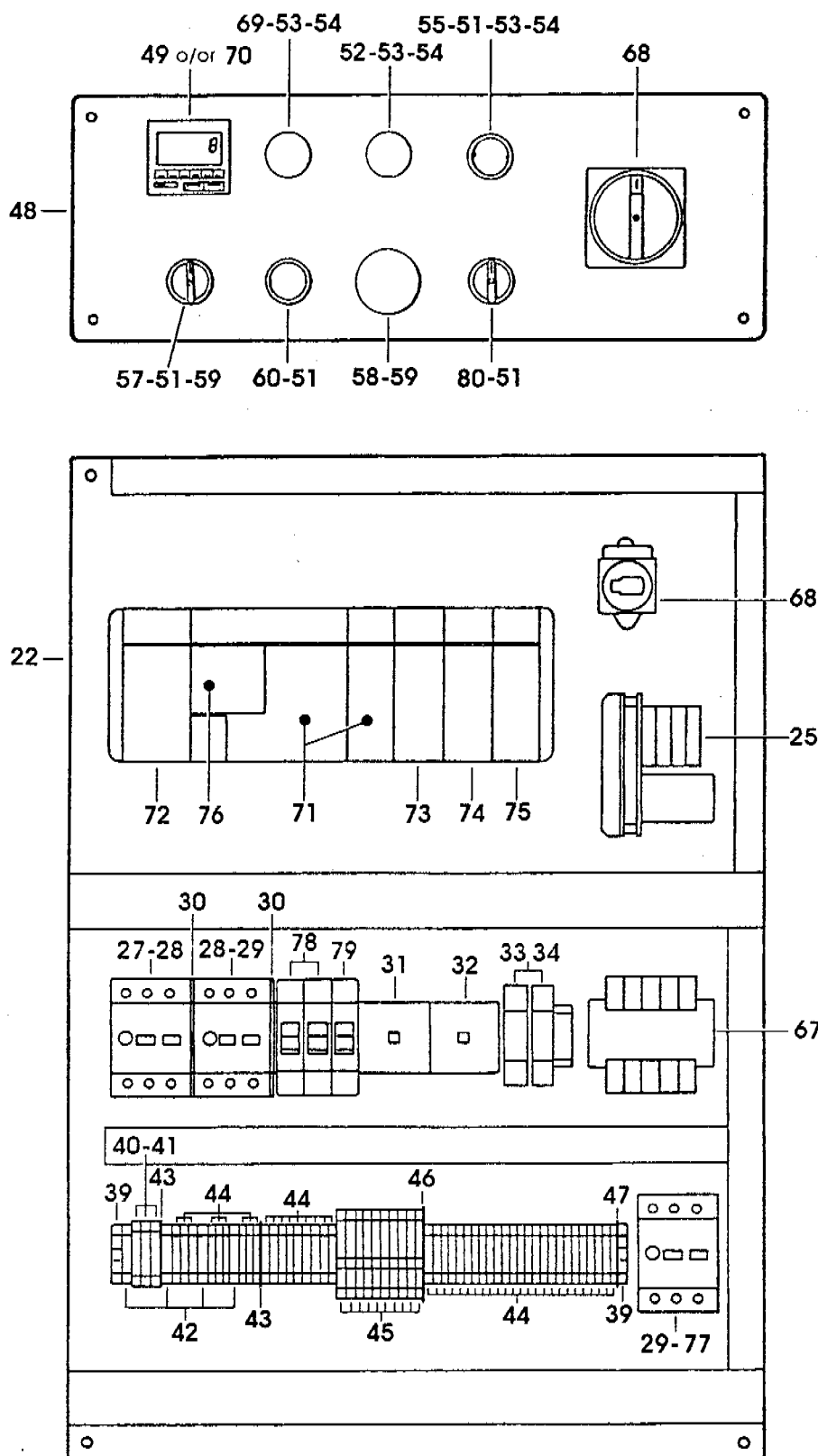




Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3733,00	BANDELLA		0 7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	3.7.00172.47	MOLLA BANDELLA SM481 GRIGIO A.	PZ	1,000
2,0	3.2.04213.93	SQUADRETTA ATTACCO BANDELLA F144	PZ	1,000
3,0	3.4.00026.93	VITE TE M6X16 ZINCATA	PZ	2,000
4,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	2,000
5,0	3.4.00056.93	VITE TE M5X10 ZINCATA	PZ	4,000
6,0	3.4.00061.93	RONDELLA PIANA X VITE M5 ZINC.	PZ	6,000
7,0	3.4.00023.93	DADO M5 ZINCATO	PZ	2,000
8,0	3.8.00876	FASCETTA BIANCA 140X3,6	PZ	7,000

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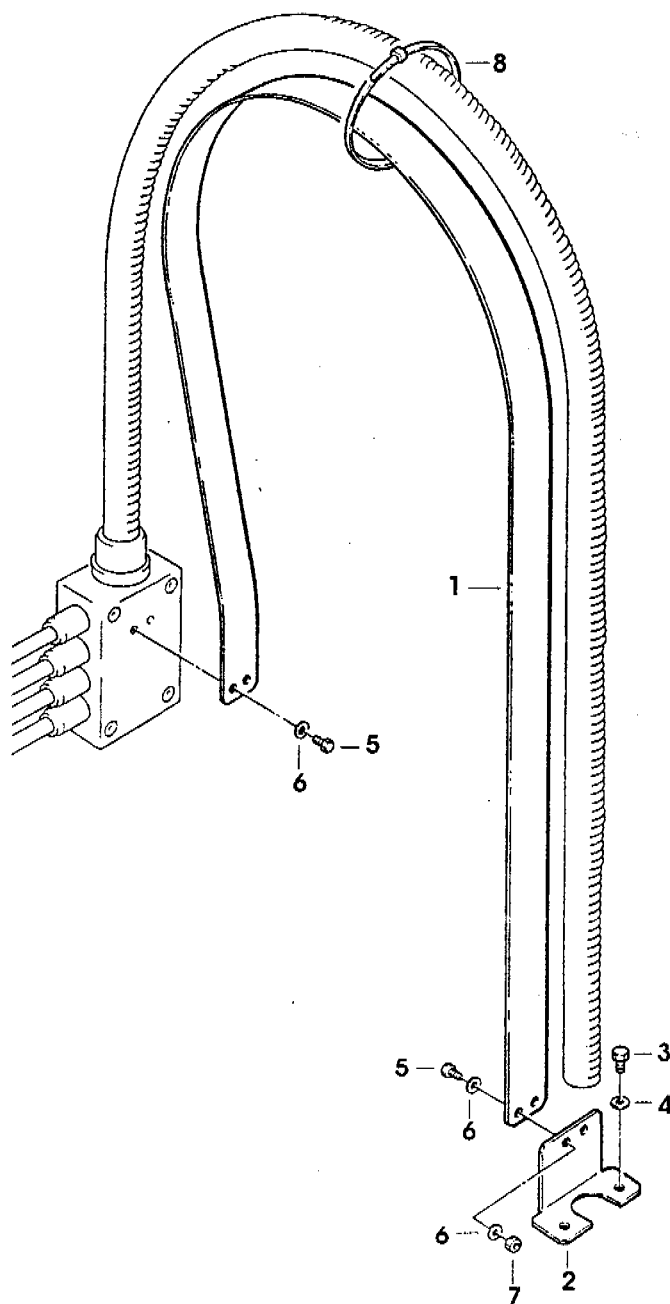


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3734,00	MOTORIZZAZIONI	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.5.04490.47	GUIDA INF.DX MOTORIZZ.C/INS. F144	PZ	1,000
2,0	4.5.04491.47	GUIDA INF.SX MOTORIZZ.C/INS. F144	PZ	1,000
3,0	4.5.04488.47	GUIDA SUP.DX MOTORIZZ.C/INS. F144	PZ	1,000
4,0	4.5.04489.47	GUIDA SUP.SX MOTORIZZ.C/INS. F144	PZ	1,000
5,0	3.3.05960.93	DISTANZIALE ES.10X81 SM11 ZINC	PZ	12,000
6,0	3.4.00021.93	VITE TE M6X12 ZINCATA	PZ	38,000
7,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	46,000
8,0	3.3.06278.93	VITE SPECIALE M6	PZ	4,000
9,0	3.3.11650	BLOCCHETTO X MOTORIZZ.F144	PZ	2,000
10,0	3.3.11638.93	VITE SPEC.X TENSIONAMENTO F144	PZ	4,000
11,0	3.3.08151.93	DISTANZIALE SCATOLA Elett.SM44	PZ	8,000
12,0	4.7.04053	PULEGGIA FOLLE ASS.SM11-48	PZ	2,000
13,0	3.3.05964.92	PERNO PER PULEGGIA	PZ	2,000
14,0	4.6.01730	PULEGGIA FOLLE COMP.	PZ	2,000
15,0	3.4.00104.92	ANELLO SICUREZZA 25 DIN 471 BR	PZ	2,000
16,0	3.2.01325.47	PIASTRA TENDICINGHIA SM11 GRIG	PZ	3,000
17,0	3.2.04456.47	CARRELLO TENDICINGHIA PER SENSORE F144	PZ	1,000
18,0	3.4.00438.93	DADO AUTOBLOCCANTE M10 BASSO	PZ	4,000
19,0	3.4.00219.93	RONDELLA PIANA X VITE M10 ZINC	PZ	4,000
20,0	3.4.00003.93	DADO M8 ZINCATO	PZ	4,000
21,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	6,000
22,0	4.7.04052	PULEGGIA DOPPIA ASS.SM11-48	PZ	2,000
23,0	3.3.05962.92	PERNO PER PULEGGIA RINVIO	PZ	2,000
24,0	4.5.03371	PULEGGIA DI RINVIO SM11	PZ	2,000
25,0	3.4.00095	CUSCINETTO 6203-2RS	PZ	2,000
26,0	3.4.00193	CUSCINETTO 6000-2RS	PZ	2,000
27,0	3.4.00187.92	ANELLO ARRESTO 10 DIN 471 BRUN	PZ	2,000
28,0	3.4.00026.93	VITE TE M6X16 ZINCATA	PZ	2,000
29,0	3.4.00283.93	DADO AUTOBLOCCANTE M8 BASSO	PZ	4,000
30,0	3.4.00655.93	RONDELLA TRIPLA X VITE M8 ZINC	PZ	2,000
31,0	4.7.06344	PULEGGIA MOTRICE ASS.F144	PZ	2,000
32,0	3.3.10891.92	PERNO X PULEGGIA MOTRICE F144	PZ	2,000
33,0	3.4.00281	LINGUETTA 5X5X12	PZ	4,000
34,0	4.6.04184	PULEGGIA PD30 L C/INSERTO SPEC FORMATORE	PZ	2,000
35,0	3.3.10892.92	DISTANZIALE X PULEGGIA F144	PZ	2,000
36,0	4.6.03370	FLANGIA COMP. DI CUSCIN.E DADI SM11-48	PZ	8,000
37,0	3.3.05951.93	RONDELLA /5,5X/20X4	PZ	6,000
38,0	3.4.00516.93	VITE TSVEI M5X12 ZINCATA	PZ	6,000
39,0	3.3.05356.93	VITE TE M6X12 SPEC.	PZ	6,000
40,0	3.4.02207	CINGHIA DENTATA 255 L075 F144	PZ	2,000
41,0	4.7.04051	GALOPPINO ASS.SM11 12AF XL	PZ	2,000
42,0	3.3.09068.92	PERNO PER GALOPPINO	PZ	2,000
43,0	3.3.09067.92	GALOPPINO TENDICINGHIA	PZ	2,000
44,0	3.4.00017	CUSCINETTO 6004-2RS	PZ	2,000
45,0	3.4.00445.92	ANELLO SICUREZZA 42 DIN 472 BR	PZ	2,000
46,0	3.4.00068.92	ANELLO SICUREZZA 20 DIN 471 BR	PZ	2,000

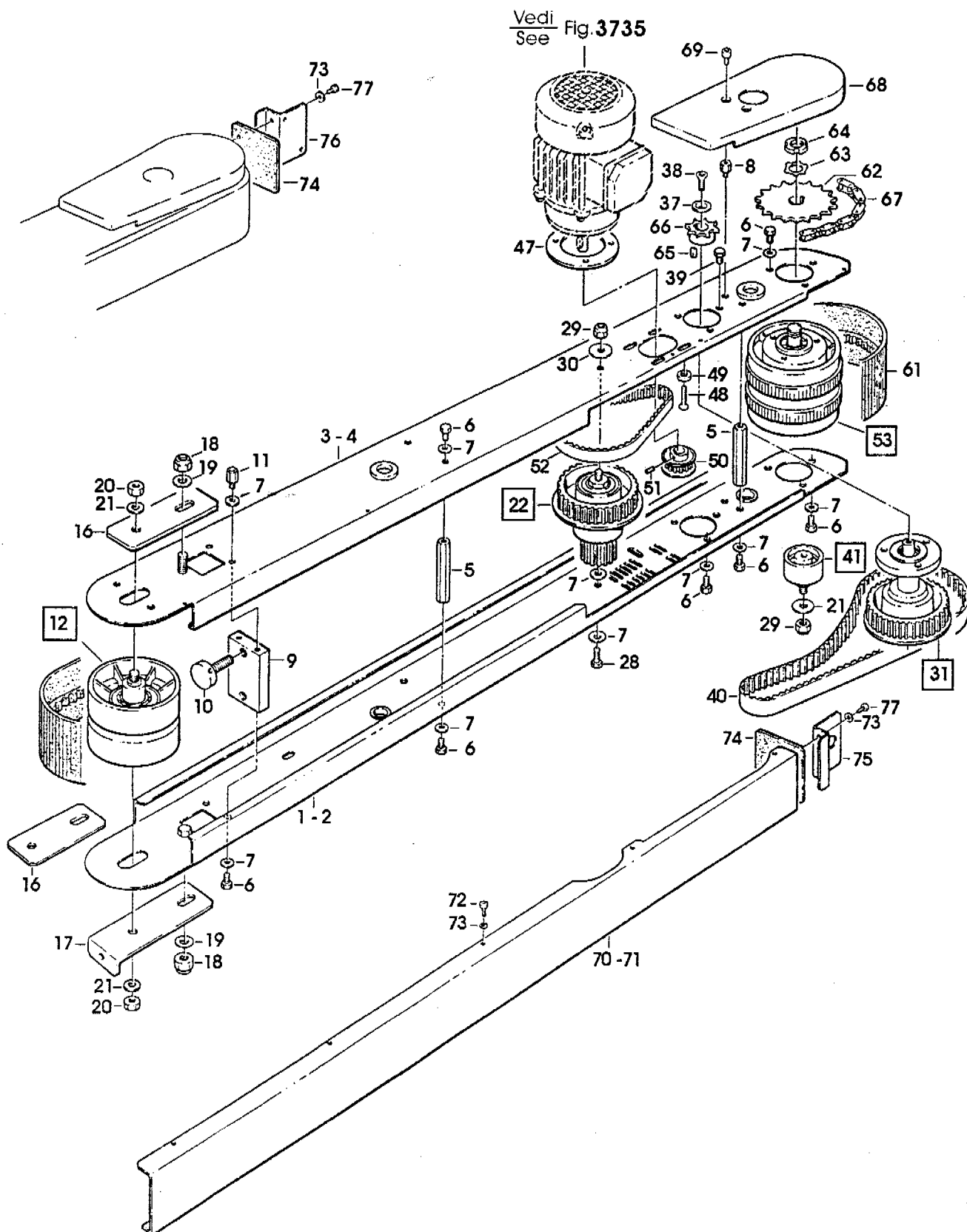


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3734,00	MOTORIZZAZIONI	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
47,0	3.1.01491	DISTANZIALE X MOTORI SM/XL/3M	PZ	2,000
48,0	3.4.00055.93	VITE TSVEI M5X20 ZINCATA	PZ	8,000
49,0	3.5.00506.93	RONDELLA FISSAGGIO MOTORI	PZ	8,000
50,0	3.3.06741.92	PULEGGIA PD17 XL050F	PZ	2,000
51,0	3.4.00388.92	GRANO EIPP PUNTA COPPA ZIGR. M5X6 BRUNITO	PZ	2,000
52,0	3.4.01593	CINGHIA DENTATA 160XL050	PZ	2,000
53,0	4.7.04049	PULEGGIA MOTRICE ASS.SM11-48	PZ	2,000
54,0	3.3.05957.92	PERNO PER PULEGGIA MOTRICE	PZ	2,000
55,0	3.4.00183	LINGUETTA 5X5X30	PZ	2,000
56,0	4.7.05876	PULEGGIA MOTRICE ASS.C/ANELLI	PZ	2,000
57,0	3.1.00540.48	ANELLO PER PULEGGIA	PZ	4,000
58,0	3.3.04398.93	RONDELLA /20,5/30X5	PZ	4,000
59,0	3.3.00068.93	DADO BASSO M18X1 ZINCATO	PZ	2,000
60,0	3.1.00762.05	COPERCHIO PER FLANGIA	PZ	2,000
61,0	3.4.01342	CINGHIA TRASCIN.MM.75X2306 +-3 SM48	PZ	2,000
62,0	3.3.06551.92	PIGNONE P=3/8" Z=28 SM BRUN.	PZ	2,000
63,0	3.4.00913	ROSETTA DI SICUREZZA MB2	PZ	2,000
64,0	3.4.00094	GHIERA KM2 (M15X1)	PZ	2,000
65,0	3.4.02142	LINGUETTA 4X4X12 SM	PZ	2,000
66,0	3.3.09702.92	PIGNONE Z=11 P=3/8	PZ	2,000
67,0	3.4.01275	ANELLO-CATENA 3/8-50P.C/GIUNZ.	PZ	2,000
68,0	3.1.01122.05	CARTER X MOTORIZZAZIONI 800af /3M-1	PZ	2,000
69,0	3.4.00119.93	VITE TCEI M5X10 ZINCATA	PZ	4,000
70,0	3.2.04452.47	CARTER X MOTORIZZ.DX F144/93	PZ	1,000
71,0	3.2.04453.47	CARTER X MOTORIZZ.SX F144/93	PZ	1,000
72,0	3.4.00830.93	VITE TCBCR AUTOF.7SPX8 ZINCATA	PZ	10,000
73,0	3.4.00043.93	RONDELLA PIANA X VITE M4 ZINC.	PZ	14,000
74,0	3.1.00680.05	PROTEZIONE CINGHIE	PZ	2,000
75,0	3.2.04431.47	SQUADRETTA X FOTOCELLULA POST. F144	PZ	1,000
76,0	3.2.04432.47	SQUADRETTA X CATADIOTTRO POST. F144	PZ	1,000
77,0	3.4.00228.93	VITE TCBCR AUTOF.8PX13 ZINCATA	PZ	4,000
78,0	4.7.06342	MOTORIZZAZIONE DX ASS.F144 (SENZA MOTORE)	PZ	1,000
79,0	4.7.06343	MOTORIZZAZIONE SX ASS.F144 (SENZA MOTORE)	PZ	1,000
80,0	3.3.02215.93	RONDELLA /6,5/30X5	PZ	4,000
81,0	3.4.00053.93	VITE TSVEI M6X16 ZINCATA	PZ	4,000
82,0	3.4.01190.05	TAPPO /35X1,5	PZ	2,000
83,0	3.2.04457.47	SCORREVOLE TENDICINGHIA PER SENSORE F144	PZ	1,000
84,0	3.4.00051.93	VITE TCEI M6X12 ZINCATA	PZ	1,000
85,0	3.4.00006.93	RONDELLA DENTELLATA X VITE M6	PZ	1,000
86,0	3.8.02411	INTERRUTTORE DI PROSSIMITA' TL-X5F1-E2	PZ	1,000
87,0	3.8.02028	FOTOCELLULA /18 PNP E3F R2 B4	PZ	1,000
88,0	3.8.02029	CATARIFRANGENTE E39-R1 SM44	PZ	1,000
89,0	3.4.00291.93	VITE TCEI M3X10 ZINC.	PZ	2,000
90,0	3.4.00558.93	RONDELLA PIANA X VITE M3 ZINC.	PZ	2,000

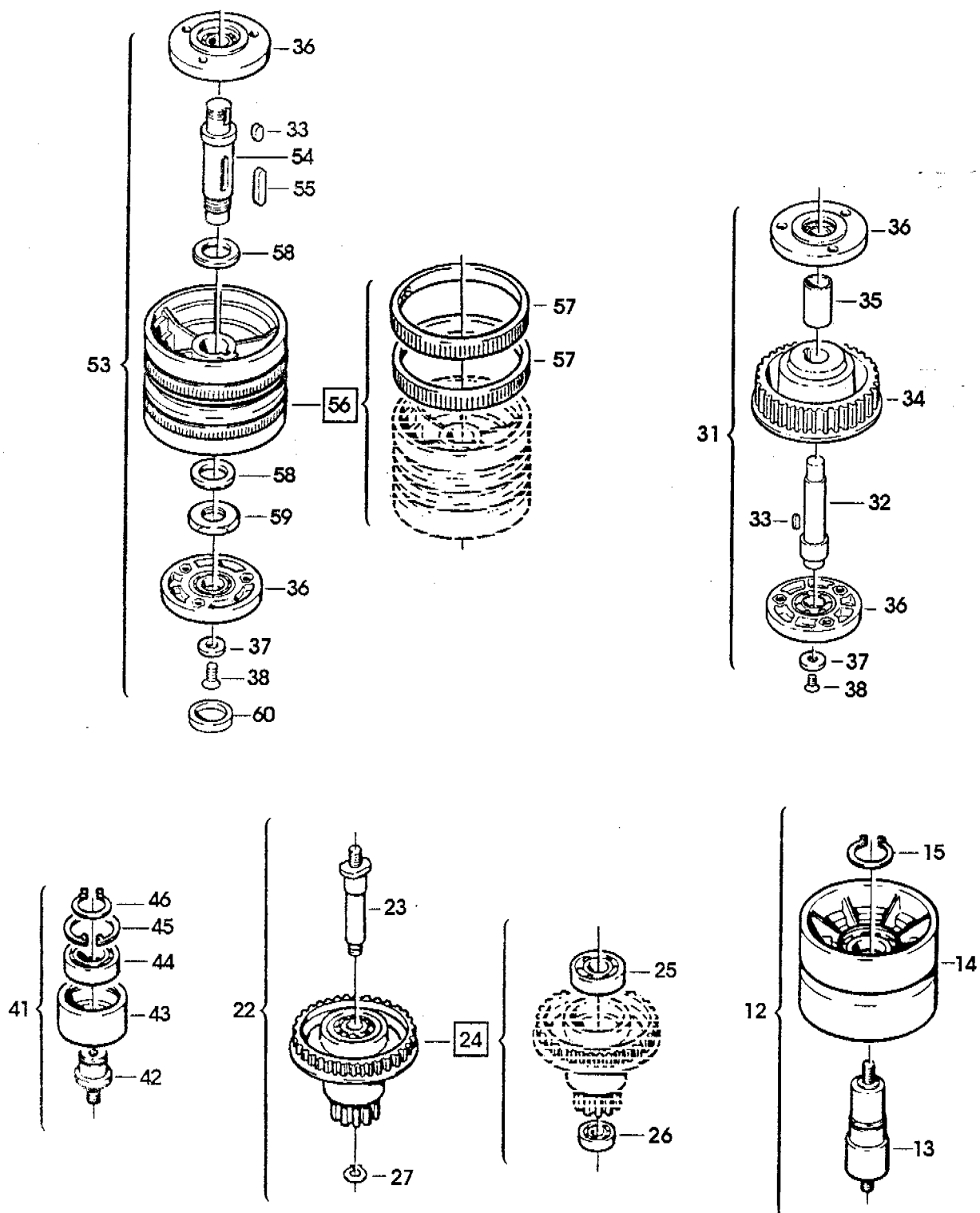


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione	
3734,00	MOTORIZZAZIONI	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT	
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Posizione	Ricambio	Descrizione		U.M.	Quantita'
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91,0	3.4.01014.93	DADO AUTOBLOCCANTE M3 ZINCATO		PZ	2,000
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					Data 22/09/95

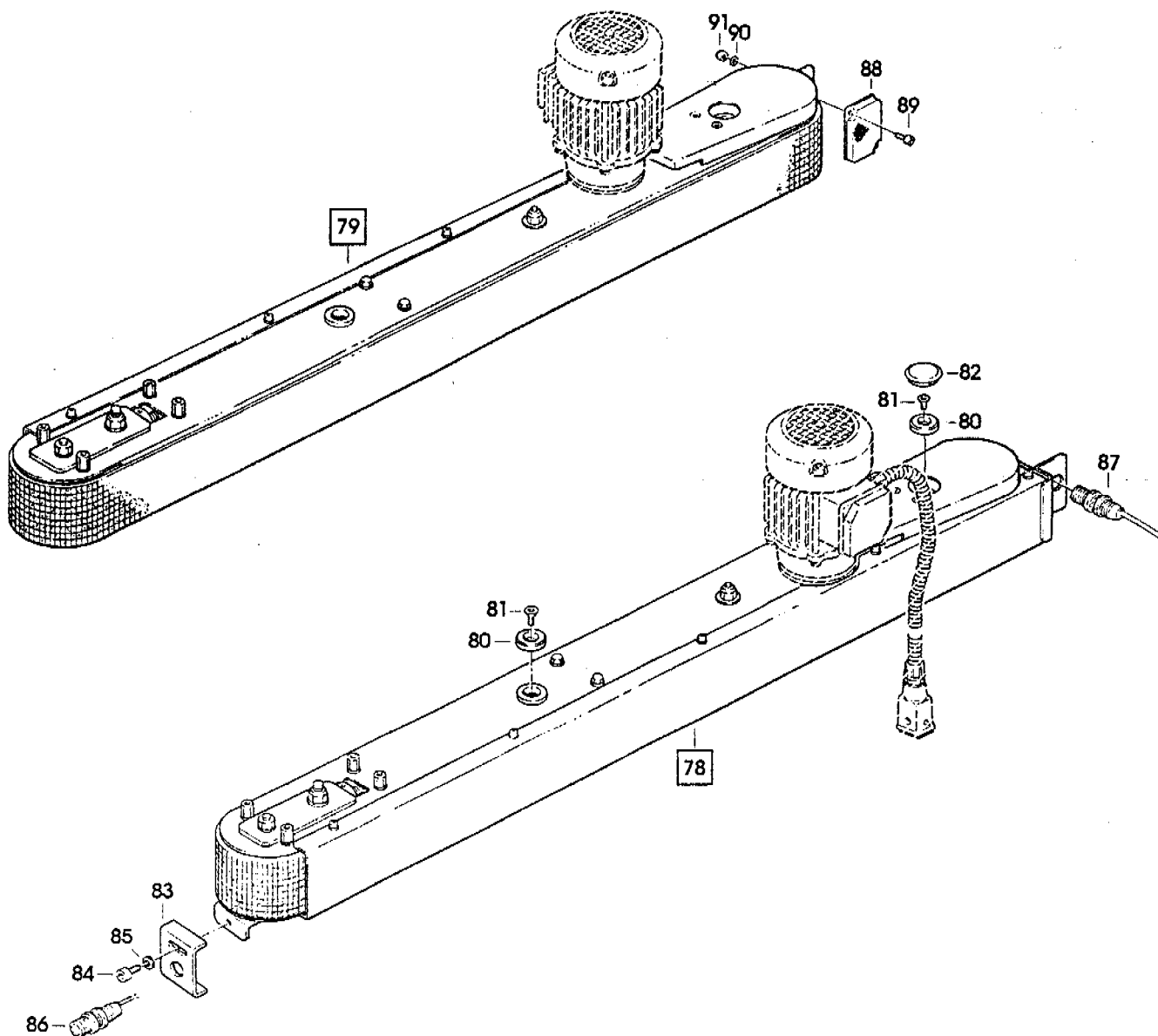




Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3735,00	MOTORI	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	3.8.01458	CUSTODIA VOL.USCITA VERTI.PG11 104261	PZ	2,000
2,0	3.8.01455	INSERTO MASCHIO 4 POLI 3P+T	PZ	2,000
3,0	3.8.00936	RACCORDO PG11 PER GUAINA /12	PZ	4,000
4,0	3.8.01758	GUAINA FLESSIBILE MM550 /12	PZ	2,000
5,0	3.8.00145	TERMINALE ROSSO A OCCHIELLO /4	PZ	8,000
6,0	3.8.01703	CAVO VIN.4X1,5 MT.5 X 3F	PZ	1,000
13,0	3.8.01885	VENTOLA X MOTORE SFACC.F.63	PZ	2,000
14,0	3.8.03443	MOTORE MULTITENSIONE H63 A4 KW0,12 B14 TIPO 2 "SM"	PZ	2,000
15,0	3.8.03441	MOTORE MULTITENSIONE H63 A4 KW0,12 B14 TIPO 1 "SM"	PZ	2,000

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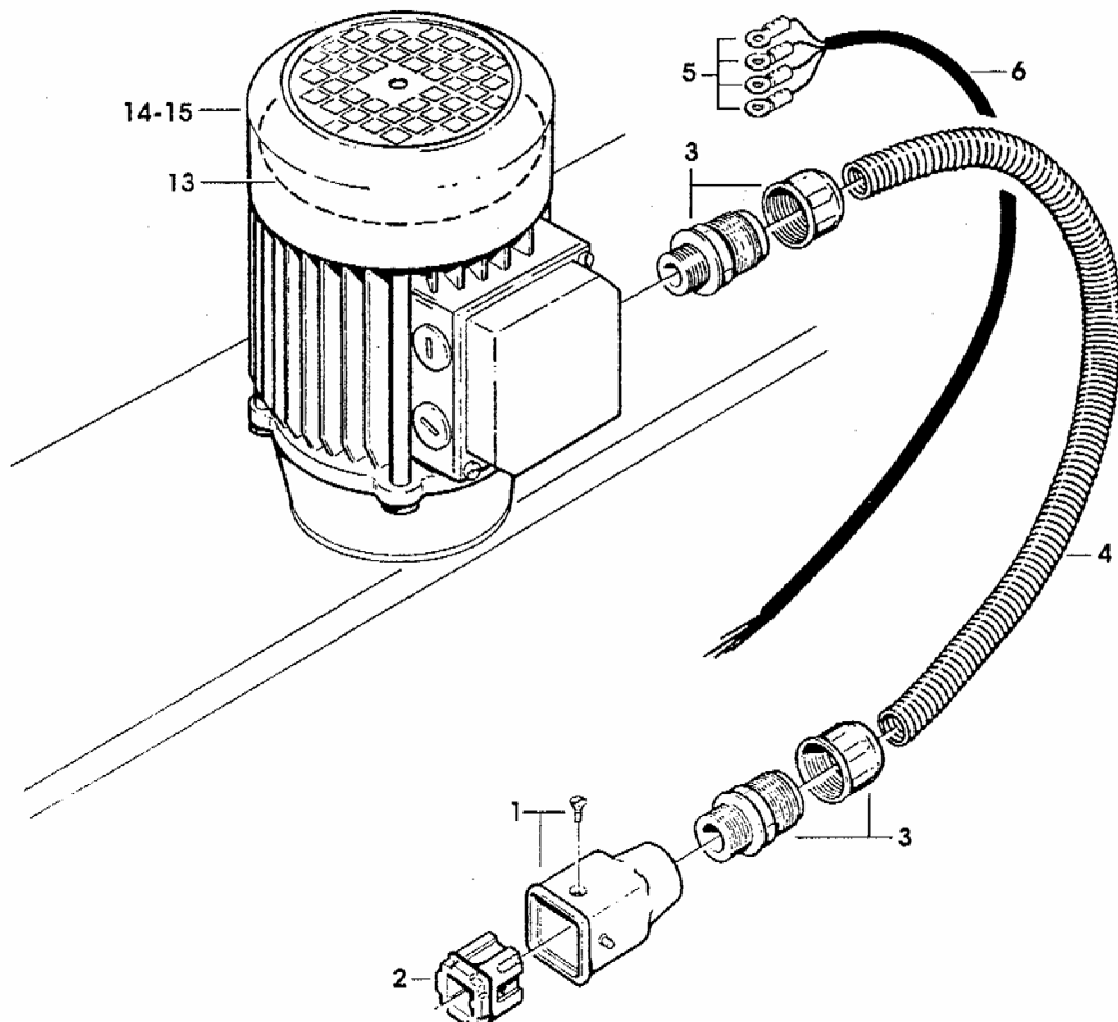


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3736,00	CHIUDIFALDE LAT./SOST.SCATOLE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.5.04495.93	STAFFA X MOTORIZZ.DX C/INS. F144	PZ	1,000
2,0	4.5.04496.93	PIASTRA FORMASCATOLE C/INS. F144	PZ	1,000
3,0	3.4.00026.92	VITE TE M6X16 BRUNITA	PZ	8,000
4,0	3.4.00024.92	RONDELLA ELAST.X VITE M6 BRUN.	PZ	12,000
5,0	3.2.04397.93	SQUADRETTA DX PER FOTOCELLULA E CATADIOTTRO F144	PZ	1,000
6,0	3.2.04398.93	SQUADRETTA SX PER FOTOCELLULA E CATADIOTTRO F144	PZ	1,000
7,0	3.8.02856	CILINDRO CDUK 32-50 D.F144	PZ	2,000
8,0	3.4.00137.93	VITE TCEI M6X50 ZINCATA	PZ	4,000
9,0	3.2.04442.93	SQUADRETTA FISSAGGIO CILINDRO F144	PZ	2,000
10,0	3.4.00051.93	VITE TCEI M6X12 ZINCATA	PZ	4,000
11,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	4,000
12,0	3.4.00021.93	VITE TE M6X12 ZINCATA	PZ	4,000
23,0	3.8.02354	RACCORDO GOMITO KOL06-01S	PZ	4,000
24,0	3.8.02028	FOTOCELLULA /18 PNP E3F R2 B4	PZ	1,000
25,0	3.8.02029	CATARIFRANGENTE E39-R1 SM44	PZ	1,000
26,0	3.4.00291.93	VITE TCEI M3X10 ZINC.	PZ	2,000
27,0	3.4.00558.93	RONDELLA PIANA X VITE M3 ZINC.	PZ	2,000
28,0	3.4.01014.93	DADO AUTOBLOCCANTE M3 ZINCATO	PZ	2,000
29,0	3.8.02855	CILINDRO ECRB 50-90 F144	PZ	2,000
30,0	3.2.03846.93	SOSTEGNO DX PALMOLA 50 F144	PZ	2,000
31,0	3.2.03847.93	SOSTEGNO SX PALMOLA 50 F144	PZ	2,000
32,0	3.4.00027.93	VITE TSVEI M6X12 ZINCATA	PZ	16,000
33,0	3.3.11703.95	CHIUDIFALDE LATERALI F144	PZ	2,000
34,0	3.4.00177.93	VITE TCEI M8X40 ZINCATA TUTTO FILETTO	PZ	4,000
35,0	3.2.04317.98	SPATOLA CHIUDIFALDA DX F144	PZ	1,000
36,0	3.2.04318.98	SPATOLA CHIUDIFALDA SX F144	PZ	1,000
37,0	3.4.00053.93	VITE TSVEI M6X16 ZINCATA	PZ	4,000
38,0	3.8.00660	RACCORDO GOMITO GIR.3190610	PZ	4,000
43,0	3.3.12814.95	BLOCCA SCATOLE DX CON PALMOLA F144-SX	PZ	1,000
44,0	3.3.12815.95	BLOCCA SCATOLE SX CON PALMOLA F144-SX	PZ	1,000
45,0	3.8.03216.81	ATTUATORE ROTANTE ECRB1BW30 270 F144	PZ	2,000
46,0	3.4.00112.93	VITE TCEI M5X16 ZINCATA	PZ	4,000
47,0	3.3.12743.95	SOSTEGNO SCATOLA CORTO PER PALMOLA F144-DX	PZ	1,000
48,0	3.3.12742.95	SOSTEGNO SCATOLA LUNGO PER PALMOLA F144-DX	PZ	1,000
49,0	3.4.01794.92	GRANO EIPC M6X8	PZ	2,000
50,0	3.8.03217	REGOLATORE DI SCARICO ASN2-M5 F144	PZ	2,000
51,0	3.8.00440	RACCORDO SPINATO N-M5-PK3	PZ	2,000
52,0	3.3.05951.93	RONDELLA /5,SX/20X4	PZ	2,000
53,0	3.4.00516.93	VITE TSVEI M5X12 ZINCATA	PZ	2,000

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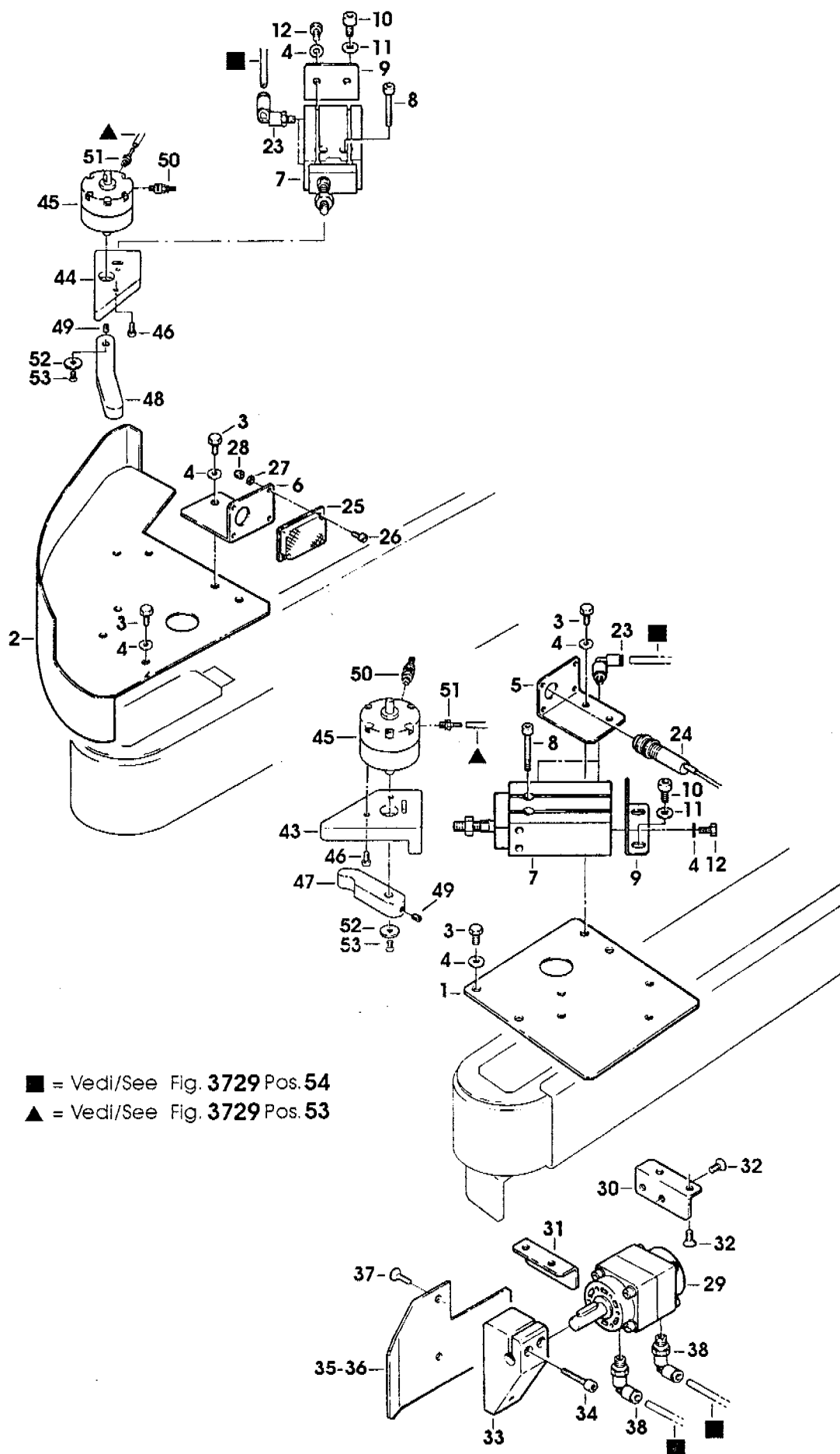
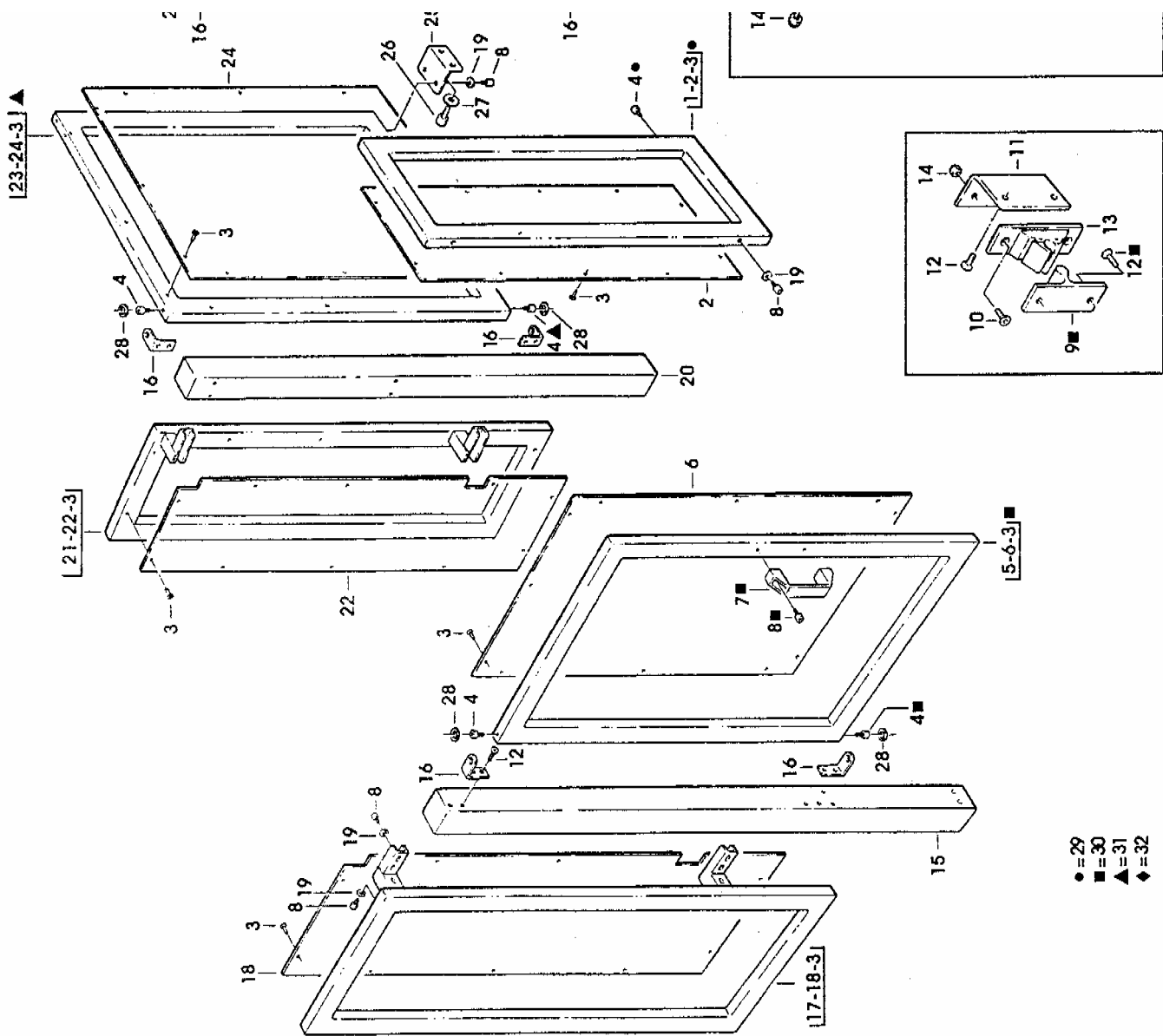


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3737,00	PROTEZIONE ANTINFORTUNISTICA		0 7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.5.04472.40	PROTEZIONE LAT.DX CON INS.F144	PZ	1,000
2,0	3.1.01200.43	PANNELLO PVC PER PROTEZIONE 790X268 F144	PZ	1,000
3,0	3.4.00984	RIVETTO /4	PZ	66,000
4,0	3.4.00051.93	VITE TCEI M6X12 ZINCATA	PZ	8,000
5,0	4.5.04473.40	PORTELLO CON INS.F144	PZ	1,000
6,0	3.1.01197.43	PANNELLO PVC X PORTELLO F144	PZ	1,000
7,0	3.8.01095	MANIGLIA M443/110	PZ	2,000
8,0	3.4.00577.93	VITE TCEI M6X16 ZINCATA	PZ	20,000
9,0	3.4.01707	AGGANCIO X BLOCCO A SCATTO T330	PZ	2,000
10,0	3.4.00403.93	VITE TSVEI M5X16 ZINCATA	PZ	4,000
11,0	3.2.04246.93	SQUADRETTA PER BLOCCAPORTA F144 ZINC.	PZ	1,000
12,0	3.4.00516.93	VITE TSVEI M5X12 ZINCATA	PZ	20,000
13,0	3.4.01601	BLOCCO A SCATTO SPEC.F144	PZ	2,000
14,0	3.4.00259.93	DADO AUTOBLOCCANTE M5 ZINCATO	PZ	4,000
15,0	4.5.04474.40	MONTANTE ANT.CON INS.F144-SX	PZ	1,000
16,0	3.2.03407.40	CERNIERA X ANTE PROTEZ.ANTINF. F144	PZ	6,000
17,0	4.5.04477.40	PROTEZIONE ANT.EST.F144	PZ	1,000
18,0	3.1.01202.43	PANNELLO PVC X PROT.ANT.ALIM. 1030X360 F144	PZ	1,000
19,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	16,000
20,0	4.5.04475.40	MONTANTE POST.CON INS.F144-SX	PZ	1,000
21,0	4.5.04476.40	PROTEZIONE ANT.ALIMENTATORE CON INS.F144	PZ	1,000
22,0	3.1.01201.43	PANNELLO PVC X PROT.ANT.EST. 1030X410 F144	PZ	1,000
23,0	4.5.04478.40	PROTEZIONE POST.CON INS.F144	PZ	1,000
24,0	3.1.01198.43	PANNELLO PVC X PROTEZ.POST. F144	PZ	1,000
25,0	3.2.04248.47	SQUADRETTA PER PROT.POST.F144	PZ	1,000
26,0	3.4.00122.93	VITE TCEI M8X20 ZINCATA	PZ	2,000
27,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	2,000
28,0	3.1.00079	RONDELLA NYLON /10,5/18X1	PZ	6,000
29,0	4.7.06325	PROTEZIONE LAT.DX ASS.F144	PZ	1,000
30,0	4.7.06326	PORTELLO ASS.F144	PZ	1,000
31,0	4.7.06332	PROTEZIONE POST.APRIBILE ASS. F144-SX	PZ	1,000
32,0	4.7.07540	PROTEZ.POST.ASS.SX F144	PZ	1,000
33,0	4.5.04739.40	PROTEZ.POST.C/INS.SX F144	PZ	1,000
34,0	3.1.01394.43	GIALLO LIMONE PANNELLO PER SPORTELLO PROT. F144	PZ	1,000
35,0	3.3.13416.95	PIASTRA ALLUMINIO X FISSAGGIO SPORT.PROTEZ.POST.F144 AN.	PZ	1,000
36,0	3.4.00108.93	VITE TCEI M5X20 ZINCATA	PZ	1,000
37,0	3.4.00061.93	RONDELLA PIANA X VITE M5 ZINC.	PZ	3,000
38,0	3.8.02388	FINECORSO DI SICUREZZA AZ152VR CON STAFFA B1 800af	PZ	1,000
39,0	3.4.00141.93	VITE TCEI M5X25 ZINCATA	PZ	2,000
40,0	3.8.02139	BOCCHETTONE SKINTOP ST11	PZ	1,000

===== Data 22/09/95 =



F144-SX

Set. 1995

Fig. 3737

Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
3738,00	SPINTORE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT
Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	3.5.02527.40	SPINTORE F144	PZ	1,000
2,0	3.4.00750	CUSCINETTO /33 RIVESTITO	PZ	4,000
3,0	3.3.00069.93	VITE CUSCINETTO /30 K SP.ZINC.	PZ	4,000
4,0	3.4.01864	MANIGLIA ELES A M443/140	PZ	1,000
5,0	3.4.00486.93	VITE TCEI M8X25 ZINCATA	PZ	2,000
6,0	3.3.11757.95	COLONNA X SPINTORE F144	PZ	3,000
7,0	3.4.01853	CHIAVETTA DI SERRAGGIO "ELES A" CT476/30 M6X20 800af	PZ	7,000
8,0	3.1.01320.05	INSERTO PER SPINTORE CENTRALE F144	PZ	2,000
9,0	3.1.01321.05	INSERTO PER SPINTORE DX F144	PZ	1,000
10,0	3.1.01322.05	INSERTO PER SPINTORE SX F144	PZ	1,000
11,0	3.4.00223.93	VITE TSVEI M6X10 ZINCATA	PZ	8,000
12,0	4.3.04649	PORTA SPINE COMP.F144	PZ	1,000
13,0	3.3.13329.93	CERNIERA MOBILE SPINTORE F144 ZINCATA	PZ	2,000
14,0	3.4.00577.93	VITE TCEI M6X16 ZINCATA	PZ	4,000
15,0	3.3.13328.93	CERNIERA FISSA SPINTORE F144 ZINCATA	PZ	2,000
16,0	3.3.13332.93	PERNO CERNIERA F144 ZINCATO	PZ	2,000
17,0	3.4.01456	SPINA CILINDRICA /3X16 L37/M	PZ	6,000
18,0	3.4.00584.93	VITE TCEI M8X16 ZINCATA	PZ	2,000
19,0	4.7.07490	TRASCINAMENTO SPINTORE ASS. F144	PZ	1,000
999,0	4.7.06406	SPINTORE ASS.F144	PZ	1,000

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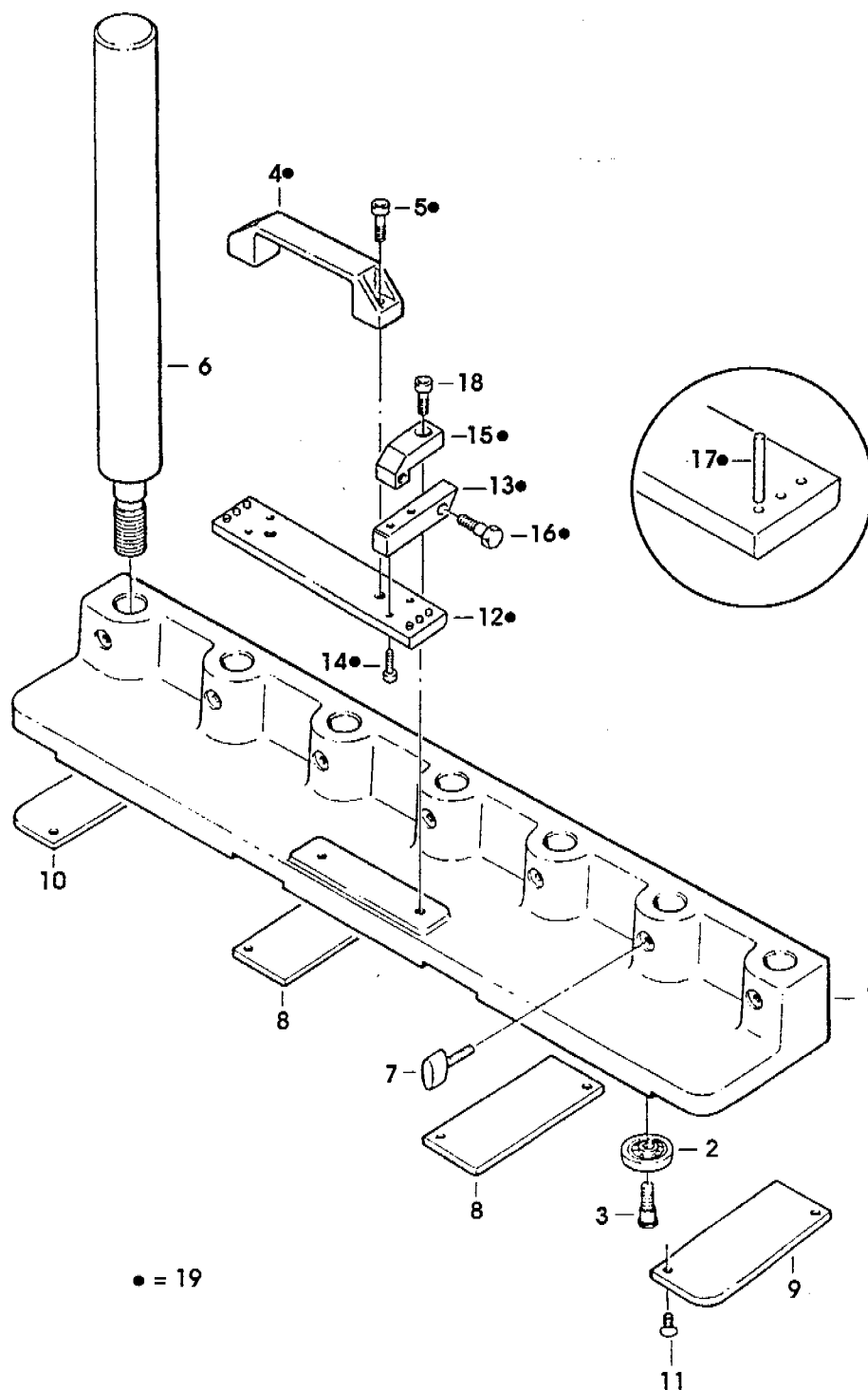




Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
4142,00	POMPA VUOTO		0 7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.4.04952.93	TUBO SUPPORTO POMPA VUOTO F144	PZ	2,000
2,0	3.4.00313.93	VITE TE M8X55	PZ	2,000
3,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	4,000
4,0	3.4.00283.93	DADO AUTOBLOCCANTE M8 BASSO	PZ	6,000
5,0	3.4.02170.05	TAPPO 35X35 ESTERNO NERO F144	PZ	2,000
6,0	3.8.03201	POMPA PER VUOTO V T 3.25	PZ	1,000
7,0	3.4.00408.93	VITE TE M6X45 ZINC.	PZ	4,000
8,0	3.4.00033.93	RONDELLA TRIPLA X VITE M6 ZINC	PZ	8,000
9,0	3.2.04687.93	ADATTATORE PER POMPA VUOTO BECKER F144	PZ	1,000
10,0	3.4.00258.93	DADO AUTOBLOCCANTE ESAGON.M6 BASSO ZINC.	PZ	4,000
11,0	3.4.00335.93	VITE TE M8X30 ZINCATA	PZ	4,000
12,0	3.4.00655.93	RONDELLA TRIPLA X VITE M8 ZINC	PZ	4,000
13,0	3.8.03198	RIDUZIONE RA 014 3/4 1/2	PZ	1,000
14,0	3.8.02882	NIPPLO CONICO RA 012 1/2"-1/2" F144	PZ	1,000
15,0	3.8.02884	RACCORDO A "T" FFF RA 023 - 1/2" F144	PZ	1,000
16,0	3.8.02881	RIDUZIONE RA 014 1/2" - 1/4" F144	PZ	1,000
17,0	3.8.02873	VUOTOMETRO /63 ATTACCO RADIALE F144	PZ	1,000
18,0	3.8.02872	RACCORDO RTPR-1/2" F144	PZ	1,000
19,0	3.8.00854	BOCCHETTONE SKINTOP ST 16	PZ	1,000
20,0	3.8.03067	TUBO TPR-1/2" (MT.1,8) F144	PZ	1,000
21,0	3.8.01703	CAVO VIN.4X1,5 MT.5 X 3F	PZ	1,000

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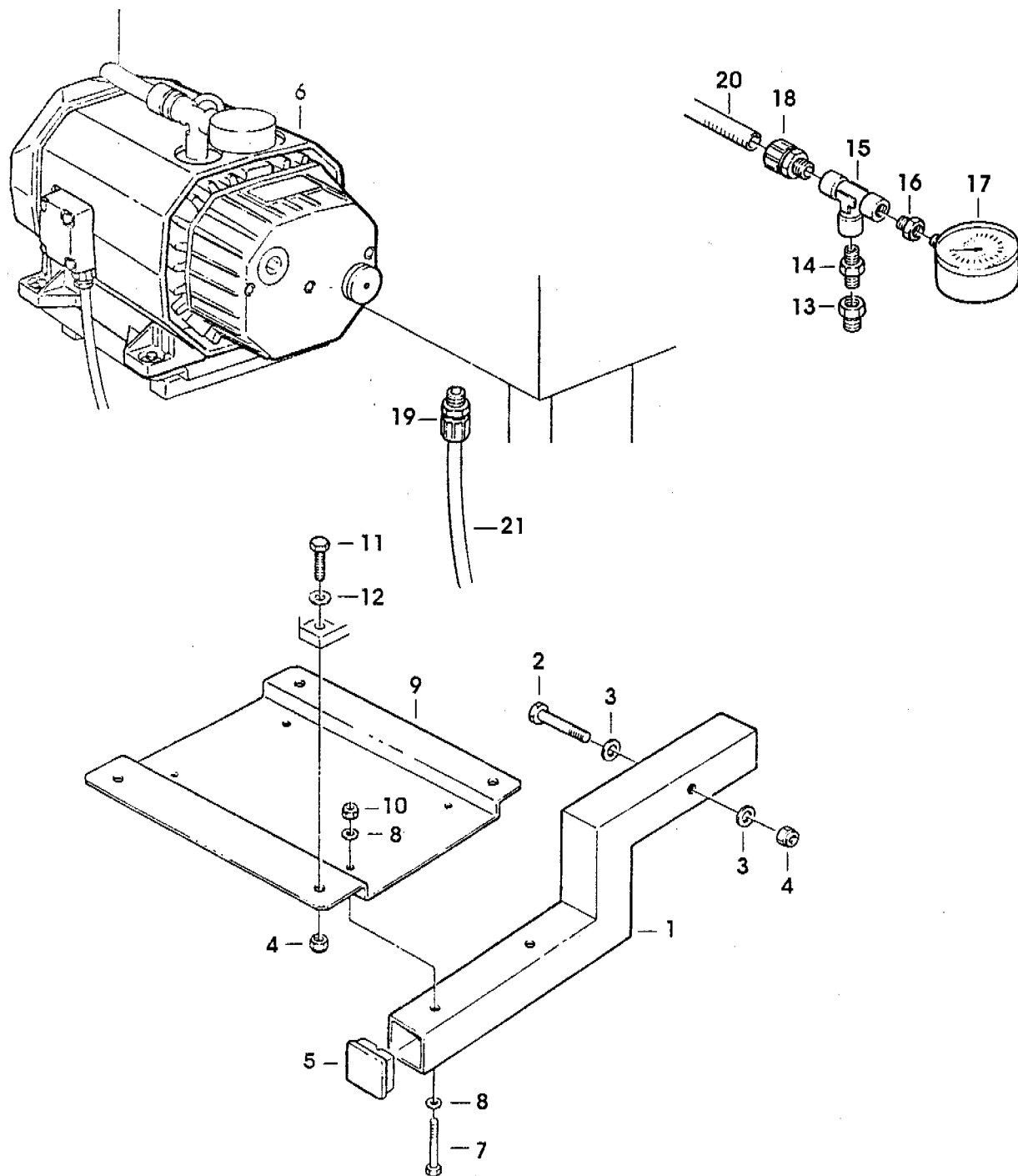
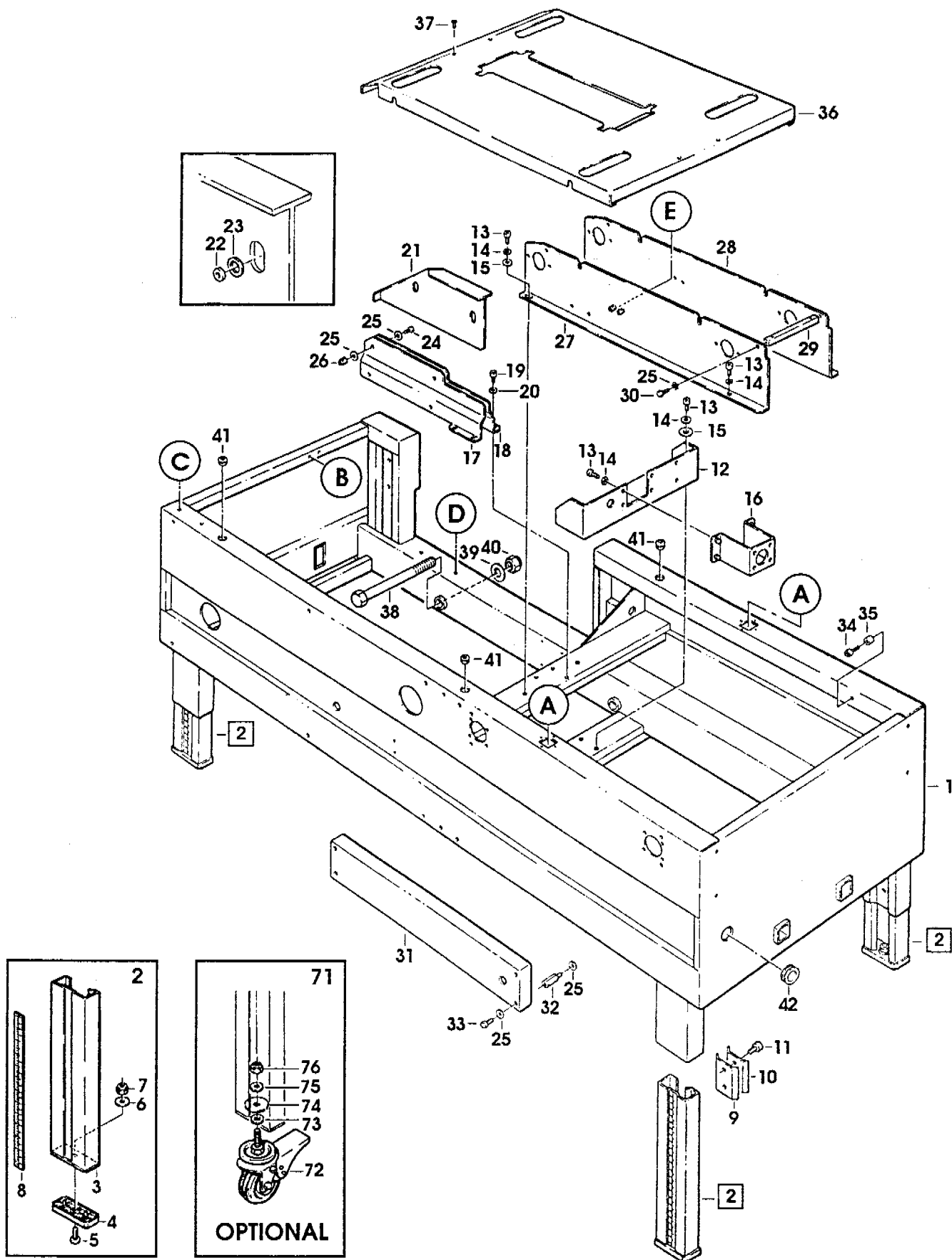


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
5119,00	BANCALE FORMATORE		0 7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.5.04821.47	BANCALE FORMATORE CON INS. F144A-SX KYOWA	PZ	1,000
2,0	4.7.06387	GAMBA SCORREVOLE F144 ASS.	PZ	4,000
3,0	4.4.03759.93	GAMBA SCORREVOLE COMP.E ZINC. XL	PZ	4,000
4,0	3.1.00867.05	PIEDINO	PZ	4,000
5,0	3.4.00335.93	VITE TE M8X30 ZINCATA	PZ	4,000
6,0	3.4.00655.93	RONDELLA TRIPLA X VITE M8 ZINC	PZ	4,000
7,0	3.4.00283.93	DADO AUTOBLOCCANTE M8 BASSO	PZ	4,000
8,0	3.0.00640.93	RIGHELLA MILLIM.DA 670 A 940MM F144	PZ	4,000
9,0	3.2.00858.93	MORSETTO FILETTATO SM/XL/3M	PZ	4,000
10,0	3.2.00859.93	STAFFA ESTERNA SM/XL/3M	PZ	4,000
11,0	3.4.00584.93	VITE TCEI M8X16 ZINCATA	PZ	8,000
12,0	3.2.04362.93	SUPPORTO ASTE X GUIDE F144	PZ	1,000
13,0	3.4.00122.93	VITE TCEI M8X20 ZINCATA	PZ	12,000
14,0	3.4.00063.92	ROSETTA ELAST.GROWER DIN 7980 (SEZ.QUADRATA) X VITE M8	PZ	12,000
15,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	6,000
16,0	4.5.04487.93	STAFFA ATTACCO CILINDRO C/INS. F144	PZ	1,000
17,0	3.2.04324.47	SUPPORTO DX CHIUDIFALDA ANT. F144	PZ	1,000
18,0	3.2.04325.47	SUPPORTO SX CHIUDIFALDA ANT. F144	PZ	1,000
19,0	3.4.00577.93	VITE TCEI M6X16 ZINCATA	PZ	4,000
20,0	3.4.00033.93	RONDELLA TRIPLA X VITE M6 ZINC	PZ	4,000
21,0	4.4.04880.98	CHIUDIFALDA ANT.ASS.F144	PZ	1,000
22,0	3.3.11749.93	DISTANZ.X GUIDASCATOLE F144	PZ	2,000
23,0	3.1.01222	RONDELLA VULKOLLAN F144	PZ	2,000
24,0	3.4.00057.93	VITE TE M6X20 ZINCATA	PZ	2,000
25,0	3.4.02204.92	RANELLA DI SICUREZZA "S" (SCHNORR) /6 F144	PZ	18,000
26,0	3.4.00258.93	DADO AUTOBLOCCANTE ESAGON.M6 BASSO ZINC.	PZ	2,000
27,0	3.2.04329.05	SPALLA DX PORTA UNITA' F144	PZ	1,000
28,0	3.2.04330.05	SPALLA SX PORTA UNITA' F144	PZ	1,000
29,0	3.3.09135.93	DISTANZIALE PER SPALLE ZINCATO	PZ	2,000
30,0	3.4.00026.93	VITE TE M6X16 ZINCATA	PZ	4,000
31,0	3.2.04332.47	CARTER CATENA F144	PZ	1,000
32,0	3.3.11773.93	DISTANZ.X CARTER CATENA F144	PZ	4,000
33,0	3.4.00021.93	VITE TE M6X12 ZINCATA	PZ	4,000
34,0	3.4.00015.93	VITE TCEI M6X25 ZINCATA	PZ	4,000
35,0	3.3.07216.93	DISTANZIALE D.6,5/10X10,5 SM8 12A/3	PZ	4,000
36,0	3.2.04331.98	PIANO SCORRIMENTO F144	PZ	1,000
37,0	3.4.00516.93	VITE TSVEI M5X12 ZINCATA	PZ	6,000
38,0	3.4.02168.93	VITE TE M20X220 F144	PZ	2,000
39,0	3.3.04398.93	RONDELLA /20,5/30X5	PZ	2,000
40,0	3.4.02169.93	DADO AUTOBLOCCANTE M20 NORMALE F144	PZ	2,000
41,0	3.8.01215	PASSACAVO GOMMA PER FORO /20	PZ	3,000
42,0	3.8.02269	PASSACAVO GOMMA X FORO /38	PZ	1,000



**F144-SX**

Set. 1995

Fig. **5119/1**

Figura	Descrizione figura	Magaz.	Prodotto	Descrizione	
5119,00	BANCALE FORMATORE		0 7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT	
Posizione	Ricambio	Descrizione		U.M.	Quantita'
43,0	3.8.01459	CUSTODIA PANNELLO C/USCITA LAT 104231		PZ	2,000
44,0	3.4.00011.93	VITE TC CROCE AUTOFILETT.6PX9 TESTA D.6,5 ZINCATA		PZ	4,000
45,0	3.8.01456	INSERTO FEMMINA 3P+T		PZ	2,000
46,0	4.4.04927.47	SQUADRETTA CON CURVA F144		PZ	1,000
47,0	3.4.00318.93	VITE TCEI M5X12 ZINCATA		PZ	6,000
48,0	3.4.00061.93	RONDELLA PIANA X VITE M5 ZINC.		PZ	6,000
49,0	3.4.02213.05	TUBO IPDM70 /20/30X1000 F144		PZ	1,000
50,0	3.4.02214	FASCETTA STRINGITUBO /24-36		PZ	2,000
51,0	3.8.03069	GUAINA FLESSIBILE NERA /22 (CM.67) F144		PZ	1,000
52,0	3.8.01080	FASCETTA CABLAGG.NERA 180X4,6		PZ	1,000
53,0	4.5.04541.93	SUPP.INTERRUTT.C/INS.F144		PZ	1,000
54,0	3.8.02388	FINECORSO DI SICUREZZA AZ15ZVR CON STAFFA B1 800af		PZ	1,000
55,0	3.4.00108.93	VITE TCEI M5X20 ZINCATA		PZ	2,000
56,0	3.8.02139	BOCCHETTONE SKINTOP ST11		PZ	1,000
57,0	3.4.00468.93	RONDELLA TRIPLA X VITE M5 ZINC		PZ	2,000
58,0	3.8.02905	RACCORDO MULTIPLO 33830600 F144		PZ	4,000
59,0	3.8.02906	RACCORDO MULTIPLO 33830800 F144		PZ	1,000
60,0	3.8.00743	RIDUZIONE A CODA 31660406		PZ	2,000
61,0	3.8.03070	GUAINA FLESSIBILE NERA /22 (CM.78) F144		PZ	1,000
62,0	3.8.03071	GUAINA FLESSIBILE NERA /22 (CM.82) F144		PZ	1,000
63,0	3.8.01405	FASCETTA BIANCA L=530X8		PZ	2,000
64,0	3.2.04655.93	SUPP.FOTOCELLULE INF.F144 KYOWA		PZ	1,000
65,0	3.2.04656.93	CARTER X SUPP.FOTOCELLULE F144 KYOWA		PZ	1,000
66,0	3.4.00029.93	VITE TE M4X10 ZINCATA		PZ	4,000
67,0	3.4.02202.92	RANELLA DI SICUREZZA "S" (SCHNORR) /4 F144		PZ	4,000
68,0	3.8.02050	FOTOCELLULA E3F-DS10B4 OMRON SM44		PZ	2,000
69,0	3.1.01272	DISCO GENERATORE DI IMPULSI X K11 F144		PZ	1,000
70,0	3.2.04686.93	BRACCIO PORT.SPEC.X K11-F144		PZ	1,000
71,0	4.7.05543	RUOTA /100 ASS.800af		PZ	4,000
72,0	3.4.01356	RUOTA /100 POLIDERNY		PZ	4,000
73,0	3.2.02455.93	Distanziale per ruote SM481 AS24/SM48		PZ	4,000
74,0	3.2.01450.93	RONDELLA SPECIALE /12/45,5X4 AS24/SM48/481		PZ	4,000
75,0	3.4.00062.93	RONDELLA PIANA X VITE M12 ZINC		PZ	4,000
76,0	3.4.00735.93	DADO AUTOBLOCCANTE M12 ZINCATO		PZ	4,000

===== Data 22/09/95 =

\* = annulla e sostituisce Pos. 2, Fig. 2130

UNITA' NASTRANTE K11

\* = It cancels and replaces Pos. 2, Fig. 2130

TAPING HEAD K11

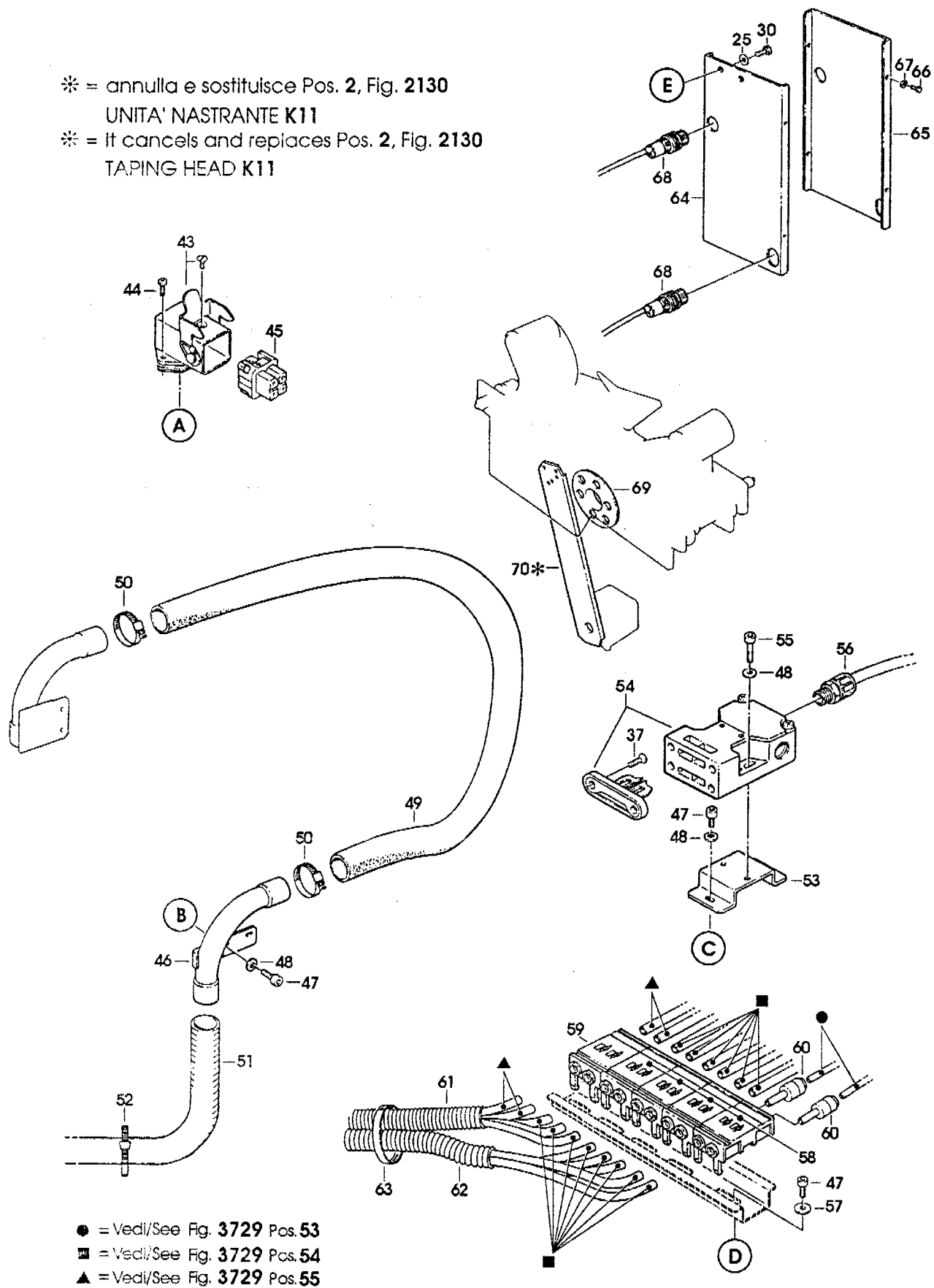


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
5120,00	BANCALE ALIMENTATORE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	4.5.04112.47	BANCALE ALIMENTATORE CON INS. F144-DX KYOWA	PZ	1,000
2,0	4.7.08142.00A	GAMBA SCORREV.ALIMENTATORE ASS F144A-DX KYOWA	PZ	4,000
3,0	4.4.05758.93A	GAMBA SCORREVOLE ALIMENTATORE ASS.F144-DX KYOWA	PZ	4,000
4,0	3.1.00867.05	PIEDINO	PZ	4,000
5,0	3.4.00335.93	VITE TE M8X30 ZINCATA	PZ	4,000
6,0	3.4.00655.93	RONDELLA TRIPLA X VITE M8 ZINC	PZ	12,000
7,0	3.4.00283.93	DADO AUTOBLOCCANTE M8 BASSO	PZ	8,000
8,0	3.0.00640.93	RIGHELLA MILLIM.DA 670 A 940MM F144	PZ	4,000
9,0	3.2.00858.93	MORSETTO FILETTATO SM/XL/3M	PZ	4,000
10,0	3.2.00859.93	STAFFA ESTERNA SM/XL/3M	PZ	4,000
11,0	3.4.00584.93	VITE TCEI M8X16 ZINCATA	PZ	8,000
12,0	3.3.11824.47	TUBOLARE RINFORZO X FORCHE SOLLEV.F144	PZ	2,000
13,0	3.4.00122.93	VITE TCEI M8X20 ZINCATA	PZ	4,000
14,0	3.2.04363.93	SUPPORTO ATTACCO ASTE F144	PZ	1,000
15,0	3.4.00280.93	VITE TE M8X20 ZINCATA	PZ	8,000
16,0	3.4.00063.92	ROSETTA ELAST.GROWER DIN 7980 (SEZ.QUADRATA) X VITE M8	PZ	6,000
17,0	4.2.04192	SQUADRETTA X CILINDRO ASS.F144	PZ	1,000
18,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	4,000
19,0	4.5.04815.47	PIANO DX ALIMENTATORE F144A-DX KYOWA	PZ	1,000
20,0	4.5.04816.47	PIANO SX ALIMENTATORE F144A-DX KYOWA	PZ	1,000
21,0	3.1.01207.05	PATTINO SCORRIM.CATENE F144	PZ	4,000
22,0	3.4.00577.93	VITE TCEI M6X16 ZINCATA	PZ	28,000
23,0	3.4.00033.93	RONDELLA TRIPLA X VITE M6 ZINC	PZ	34,000
24,0	3.4.00258.93	DADO AUTOBLOCCANTE ESAGON.M6 BASSO ZINC.	PZ	32,000
25,0	3.2.04372.93	FERMO X SPINTORE F144	PZ	1,000
26,0	3.3.08151.93	DISTANZIALE SCATOLA.ELETT.SM44	PZ	4,000
27,0	3.4.00021.93	VITE TE M6X12 ZINCATA	PZ	4,000
28,0	3.2.05621.98	INDICATORE ALTEZZA PIANO ALIM. F144-SX KYOWA	PZ	1,000
29,0	3.4.00026.93	VITE TE M6X16 ZINCATA	PZ	2,000
30,0	3.4.00061.93	RONDELLA PIANA X VITE M5 ZINC.	PZ	8,000
31,0	3.8.01215	PASSACAVO GOMMA PER FORO /20	PZ	1,000
32,0	3.2.04454.93	SQUADRETTA X SENSORE F144	PZ	1,000
33,0	3.4.00371.93	VITE TE M5X12 ZINCATA	PZ	6,000
34,0	4.4.04947.93	SCORREVOLE X SENSORE + DADI F144	PZ	1,000
35,0	3.4.00051.93	VITE TCEI M6X12 ZINCATA	PZ	2,000
36,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	2,000
37,0	3.8.02854	CILINDRO ECRB 32-90 F144	PZ	1,000
38,0	4.4.04891.93	APRISCATOLE ASS.F144	PZ	1,000
39,0	3.4.00888.92	GRANO EIPP M5X10 BRUNITO	PZ	1,000
40,0	3.8.00363	RACCORDO A GOMITO MF 1/8"	PZ	2,000
41,0	3.8.01036	RACCORDO DIR.M.CIL.31010410	PZ	2,000

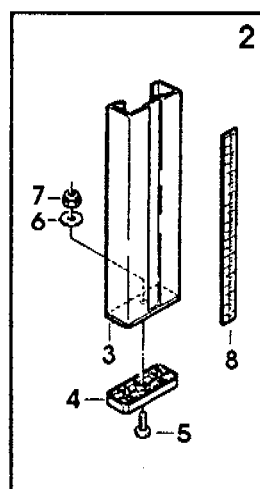
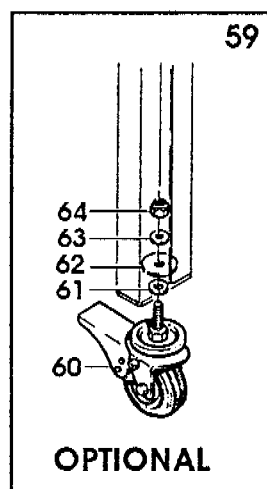
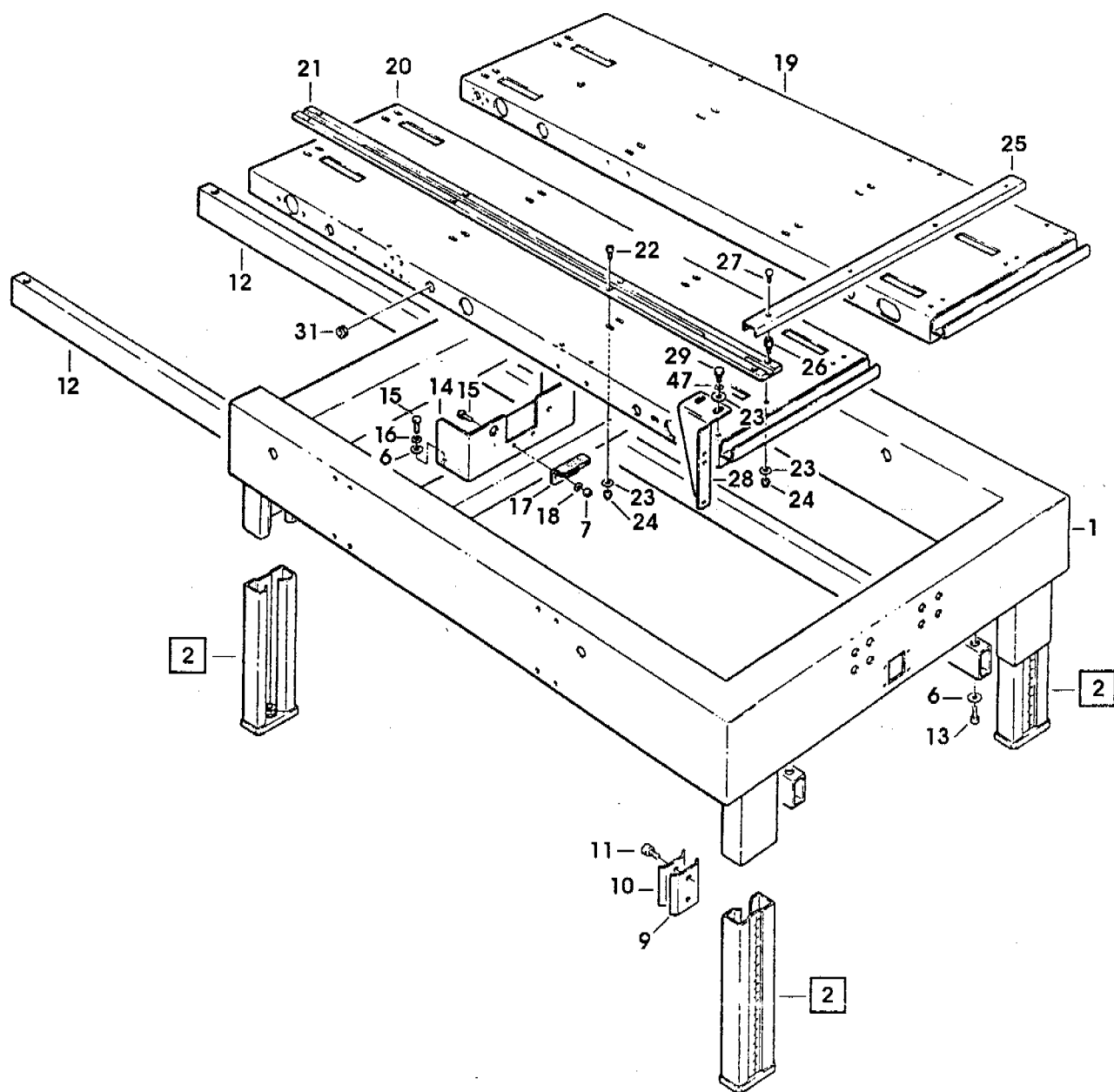
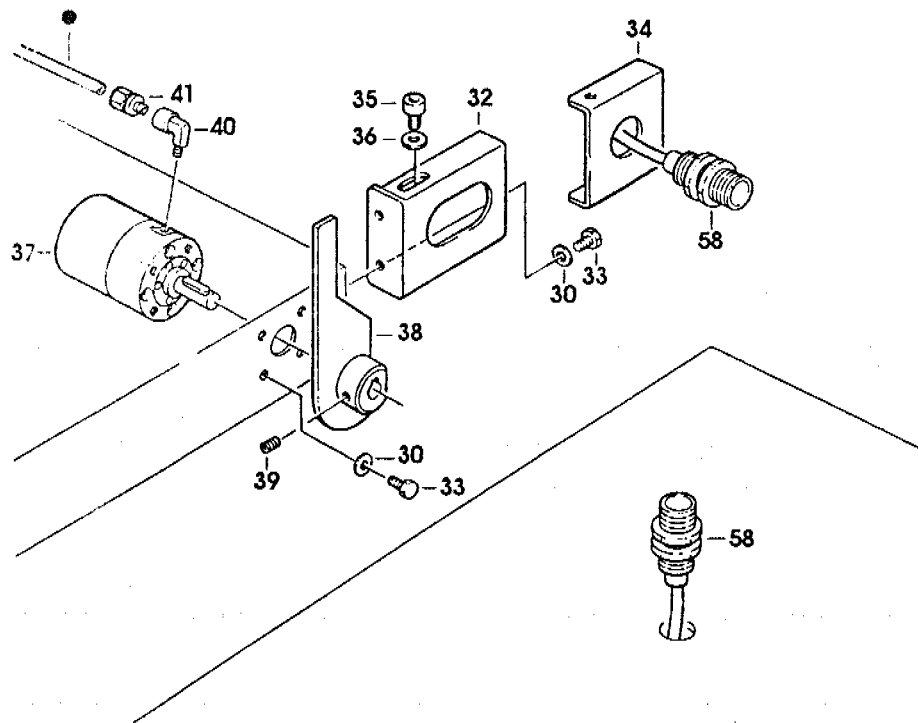




Figura	Descrizione figura	Magaz.	Prodotto	Descrizione	
5120,00	BANCALE ALIMENTATORE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT	
Posizione	Ricambio	Descrizione		U.M.	Quantita'
42,0	3.2.04344.93	SUPPORTO DX CILINDRO F144		PZ	1,000
43,0	3.2.04345.93	SUPPORTO SX CILINDRO F144		PZ	1,000
44,0	3.8.02852	CILINDRO C65 D 32-70 C F144		PZ	1,000
45,0	3.8.02853	CERNIERA C65 D32 F144		PZ	1,000
46,0	3.3.11733.93	PERNO ATTACCO CILINDRO F144		PZ	1,000
47,0	3.4.02205.92	RANELLA DI SICUREZZA "S" (SCHNORR) /8 F144		PZ	2,000
48,0	3.4.01010.93	TESTA A SNODO M10X1,25 ZINCATA		PZ	1,000
49,0	4.3.04527	FERMASCATOLE CON CUSCINETTO F144		PZ	1,000
50,0	3.4.02146	CUSCINETTO 4202 A F144		PZ	1,000
51,0	3.4.00190.92	ANELLO ARRESTO X FORO /35 BRUN		PZ	1,000
52,0	3.3.11748.92	PERNO X FERMASCATOLE INF.F144		PZ	1,000
53,0	3.3.11691.93	RONDELLA SVASATA /8,5-25-5 F144		PZ	1,000
54,0	3.4.00048.93	VITE TSVEI M8X15 ZINCATA		PZ	1,000
55,0	3.4.00438.93	DADO AUTOBLOCCANTE M10 BASSO		PZ	2,000
56,0	3.4.00219.93	RONDELLA PIANA X VITE M10 ZINC		PZ	2,000
57,0	3.8.02929	REGOLAT.DI FLUSSO EAS 2201F 01-06 F144		PZ	2,000
58,0	3.8.02411	INTERRUTTORE DI PROSSIMITA' TL-X5F1-E2		PZ	2,000
59,0	4.7.05543	RUOTA /100 ASS.800af		PZ	4,000
60,0	3.4.01356	RUOTA /100 POLIDERNY		PZ	4,000
61,0	3.2.02455.93	Distanziale per ruote SM481 AS24/SM48		PZ	4,000
62,0	3.2.01450.93	RONDELLA SPECIALE /12/45,5X4 AS24/SM48/481		PZ	4,000
63,0	3.4.00062.93	RONDELLA PIANA X VITE M12 ZINC		PZ	4,000
64,0	3.4.00735.93	DADO AUTOBLOCCANTE M12 ZINCATO		PZ	4,000
65,0	3.8.03389	RIDUTTORE MODULARE EAR-2000 0,5/7 bar F144		PZ	1,000
66,0	3.8.00674	RACCORDO DIR.M.CIL.31010613		PZ	1,000
67,0	3.8.00617	RACCORDO GOMITO GIR.31990613		PZ	1,000

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- = Vedi/See Fig. 3729 Pos. 53
- = Vedi/See Fig. 3729 Pos. 54

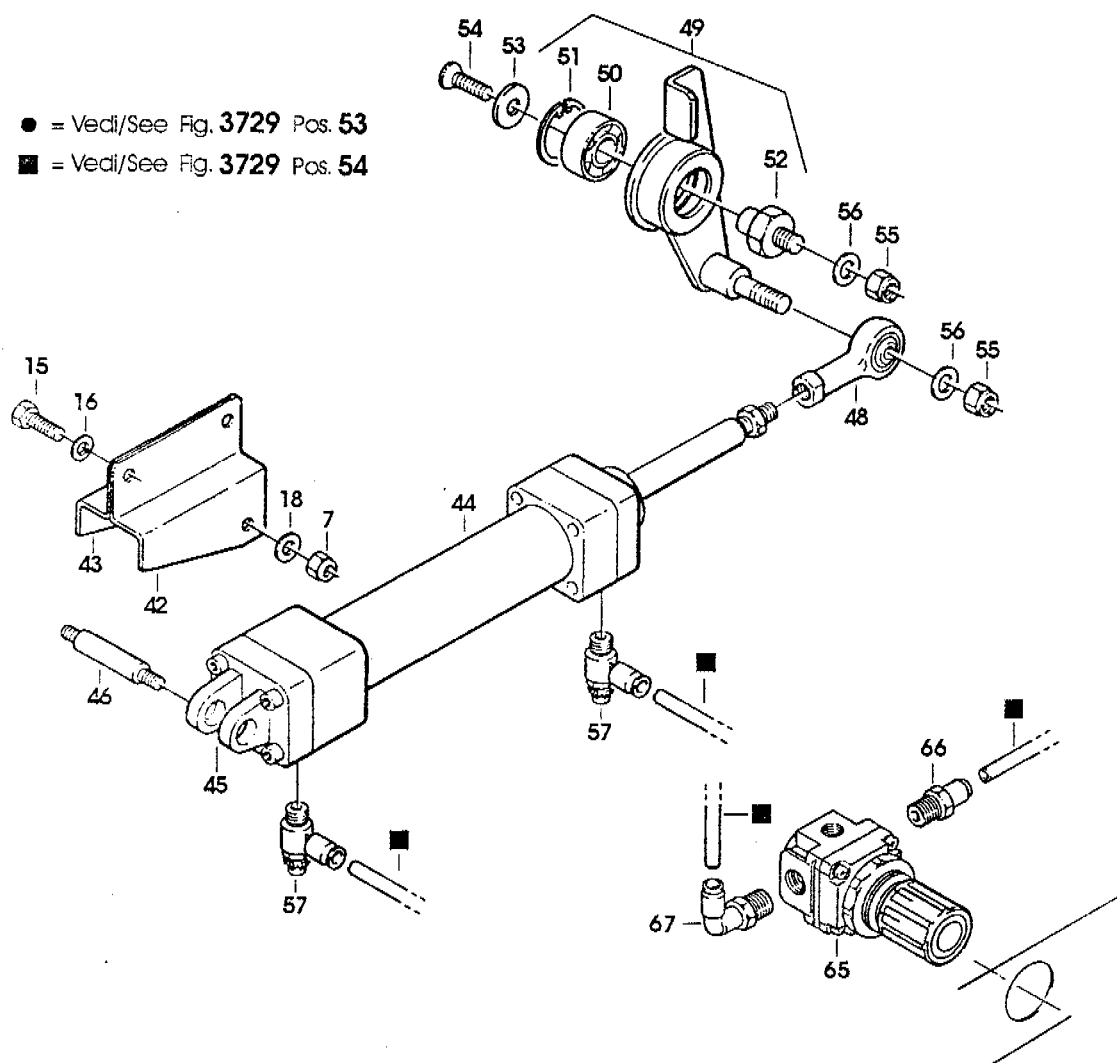


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
5121,00	GUIDE ALIMENTATORE	0	7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT
Posizione	Ricarbio	Descrizione	U.M.	Quantita'
1,0	4.4.05552.47	MONTANTE ASS.ALIMENTATORE F144	PZ	4,000
2,0	3.1.01239	BUSSOLA X MONTANTI GUIDE ALIM. F144	PZ	8,000
3,0	3.4.00577.93	VITE TCEI M6X16 ZINCATA	PZ	16,000
4,0	3.4.02204.92	RANELLA DI SICUREZZA "S" (SCHNORR) /6 F144	PZ	16,000
5,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	20,000
6,0	3.3.14446.93	PERNO PER LEVE GUIDE L=390 F144 KYOWA	PZ	4,000
7,0	3.3.05953.93	RONDELLA /15,2/26X1 ZINC.	PZ	4,000
8,0	3.3.14447.93	DISTANZIALE POSIZIONAM.LEVE F144 KYOWA	PZ	8,000
9,0	3.3.07645.93	GHIERA FISS.PERNI /12-25X12	PZ	4,000
10,0	3.4.00264.92	GRANO EIPP M6X6 BRUNITO	PZ	4,000
11,0	3.5.02571.05	LEVA 45* L=300 F144 KYOWA	PZ	2,000
12,0	3.5.02572.05	LEVA 45* L=260 F144 KYOWA	PZ	2,000
13,0	3.4.01365.92	GRANO EIPC DENTELLATO M8X10 BR	PZ	6,000
14,0	4.4.05523.40B	PORTA GUIDA DX ASS.F144	PZ	1,000
15,0	4.4.05524.40B	PORTA GUIDA SX ASS.F144	PZ	1,000
16,0	3.3.11750.93	PERNO X LEVE ALIMENT.F144	PZ	4,000
17,0	3.4.00026.93	VITE TE M6X16 ZINCATA	PZ	6,000
18,0	3.4.00024.92	RONDELLA ELAST.X VITE M6 BRUN.	PZ	4,000
19,0	4.2.04189	MANOPOLA M10 CORTA X GUIDE F144	PZ	4,000
20,0	3.4.00219.93	RONDELLA PIANA X VITE M10 ZINC	PZ	8,000
21,0	3.2.05566.40	BRETELLA COLLEGAMENTO LEVE F144	PZ	2,000
22,0	3.1.00079	RONDELLA NYLON /10,5/18X1	PZ	4,000
23,0	4.3.04691	RULLINO CON CUSCINETTI ASS. F144 KYOWA	PZ	8,000
24,0	3.4.00442.93	VITE TE M8X45 ZINCATA	PZ	8,000
25,0	3.3.14429.93	DISTANZIALE PER RULLINO GUIDE F144 KYOWA	PZ	8,000
26,0	3.4.00123.93	RONDELLA PIANA X VITE M8 ZINC.	PZ	8,000
27,0	3.4.00283.93	DADO AUTOBLOCCANTE M8 BASSO	PZ	8,000
28,0	4.5.04810.93	GUIDA DX ALIMENTATORE C/INS. F144A-DX KYOWA	PZ	1,000
29,0	4.5.04814.93	GUIDA SX ALIMENTATORE C/INS. F144A-SX KYOWA	PZ	1,000
30,0	3.3.14425.93	PERNO CON CUSCINETTO PER GUIDE F144 KYOWA	PZ	2,000
31,0	3.4.00166	CUSCINETTO 6001-2RS	PZ	2,000
32,0	3.4.00135.92	ANELLO ARRESTO 12 DIN 471 BRUN	PZ	2,000
33,0	3.4.00068.92	ANELLO SICUREZZA 20 DIN 471 BR	PZ	2,000
34,0	3.3.11767.93	PERNO X MOLLA FERMASCATOLE F144	PZ	1,000
35,0	4.4.05241.98	FERMASCATOLE ASS.F144	PZ	1,000
36,0	3.4.00261.93	VITE TE M6X60 ZINC.	PZ	1,000
37,0	3.4.00258.93	DADO AUTOBLOCCANTE ESAGON.M6 BASSO ZINC.	PZ	2,000
38,0	3.7.00221.93	MOLLA /18,5 FILO /2 L=55	PZ	1,000
39,0	3.3.04438.93	GHIERA REGOLAZ.PORTAR.K ZINC.	PZ	1,000

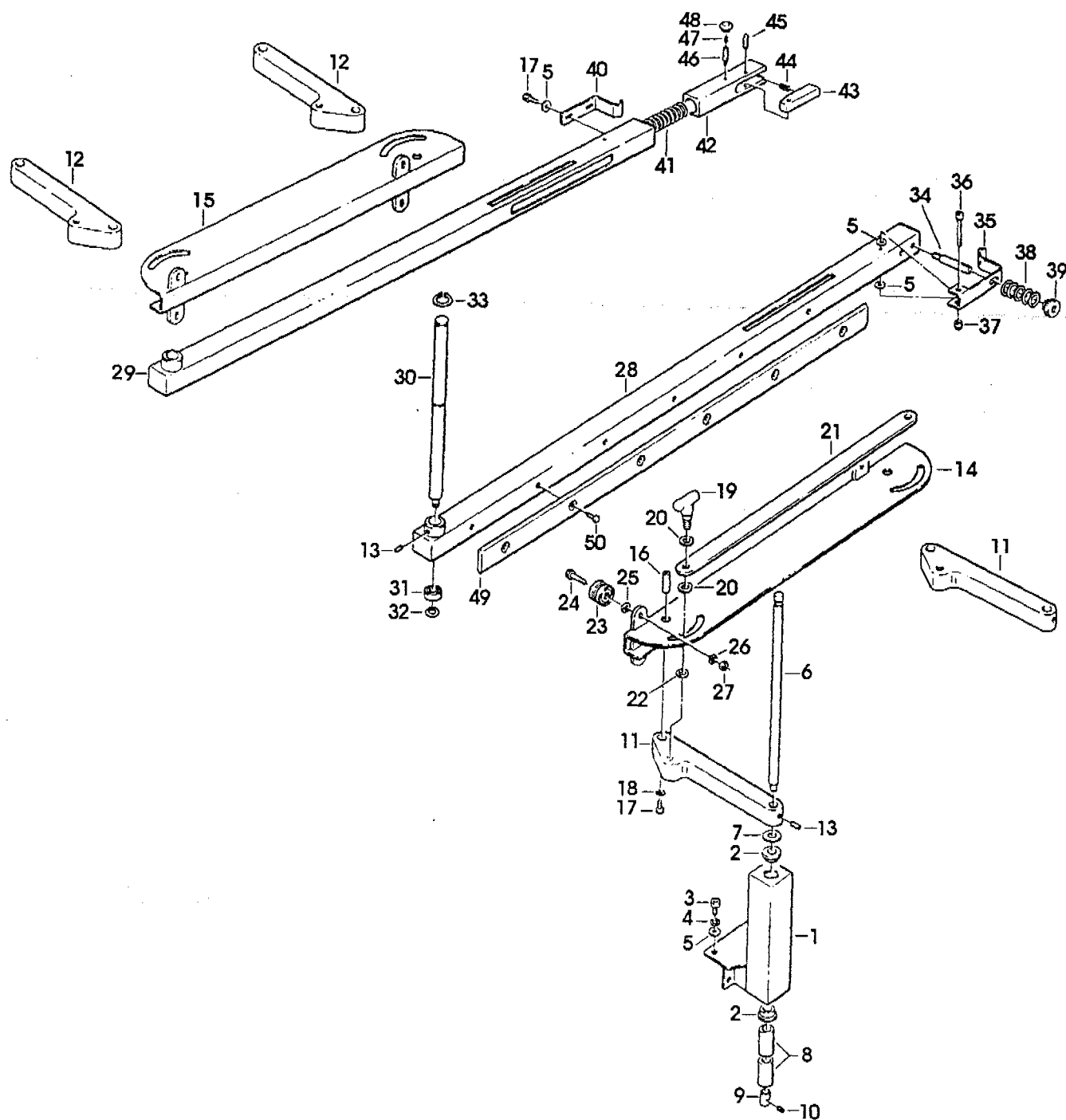
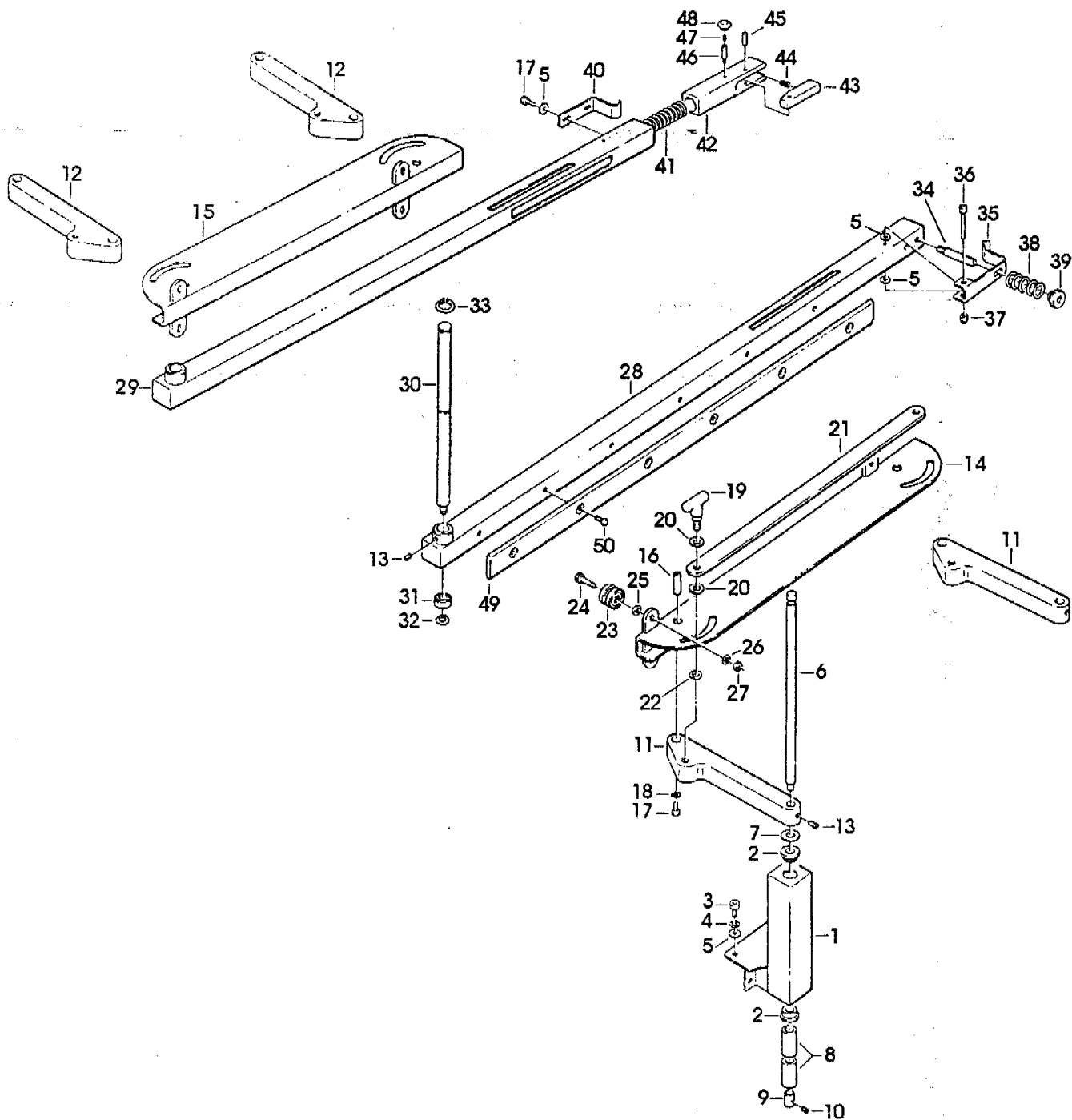


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
5121,00	GUIDE ALIMENTATORE		0 7.8.04333.00A	F144-SX TIPO A FORMATORE SIAT

Posizione	Ricambio	Descrizione	U.M.	Quantita'
40,0	3.2.04353.98	FERMASCATOLE FISSO F144	PZ	1,000
41,0	3.7.00273.93	MOLLA /30 X GUIDE F144	PZ	2,000
42,0	3.1.01494	BLOCCHETTO PER SALTERELLO F144 KYOWA	PZ	2,000
43,0	3.1.01252	SALTERELLO F144	PZ	2,000
44,0	3.7.00274.93	MOLLA X SALTERELLO F144	PZ	2,000
45,0	3.4.00687.93	SPINA CILINDRICA /6X30 ZINC.	PZ	2,000
46,0	3.3.12061.93	PERNO X BLOCCHETTO F144	PZ	2,000
47,0	3.4.00225.92	GRANO EIPP M6X20 BRUNITO	PZ	2,000
48,0	4.6.01979.40	POMOLO COMP.	PZ	2,000
49,0	3.3.14671.95	GUIDA A DOPPIA "V" F144 KYOWA	PZ	2,000
50,0	3.3.05356.93	VITE TE M6X12 SPEC.	PZ	12,000

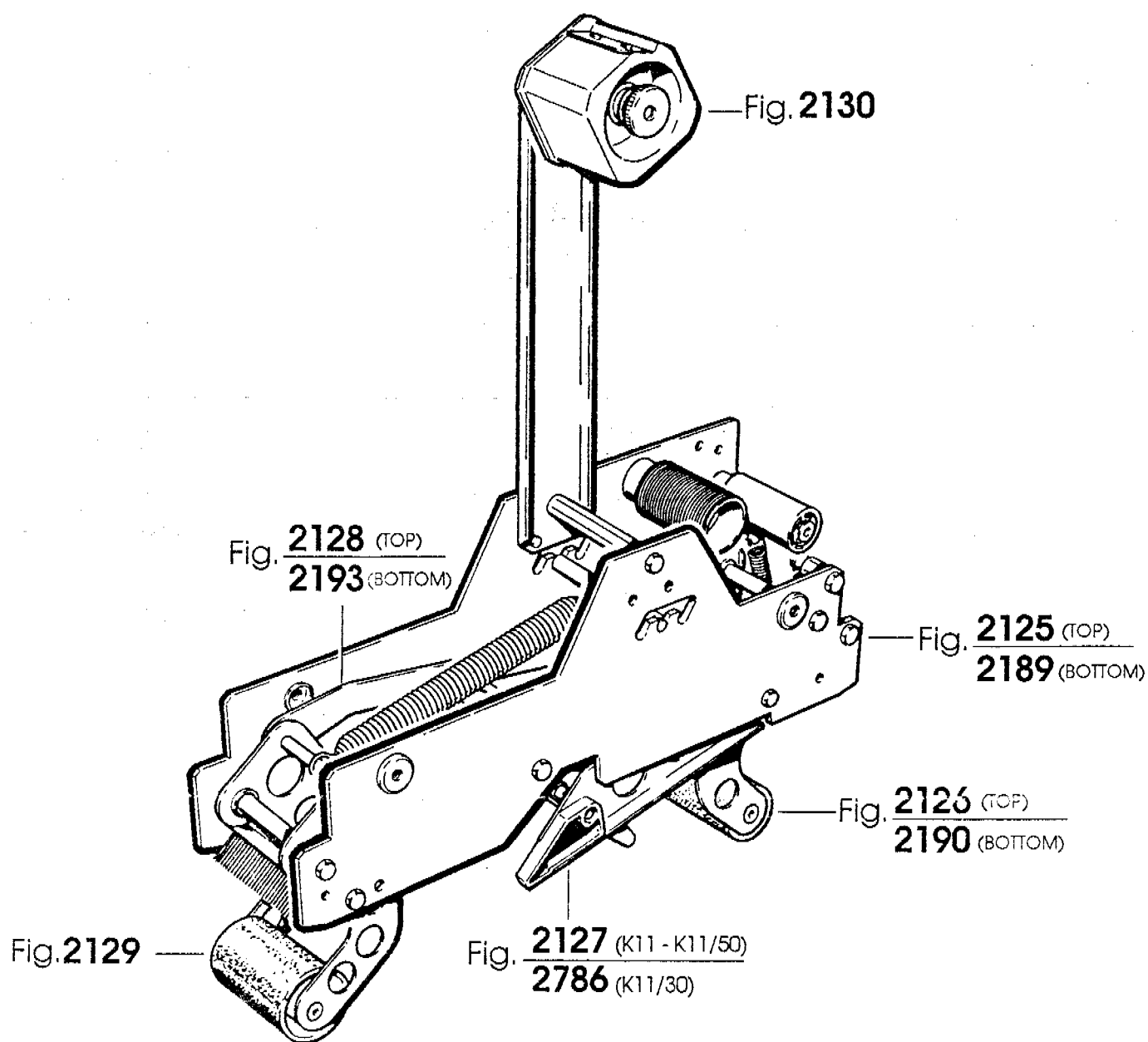
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**SPARE PARTS LIST**

# **TAPING HEAD**

**ATTENTION! MAKE REFERENCE TO K11 BOTTOM ONLY**



Cod. Prod.: **4.9.04029** K11 TOP  
 Cod. Prod.: **4.9.04030** K11 BOTTOM  
 Cod. Prod.: **4.9.04480** K11/30 TOP  
 Cod. Prod.: **4.9.04479** K11/30 BOTTOM  
 Cod. Prod.: **4.9.04763** K11/50 TOP  
 Cod. Prod.: **4.9.04764** K11/50 BOTTOM

Nov. 1993

**K11**  
**K11/30**  
**K11/50**



2125,00	GRUPPO SPALLE	000000 4.9.04029	K11 UNITA' NASTRANTE - TOP
2125,00	GRUPPO SPALLE	000000 4.9.04480	K11/30" TOP
2125,00	GRUPPO SPALLE	000000 4.9.04763	UNITA' NASTRANTE K11/50 TOP

Posizione	Cod. Ricambio	Descrizione	U.M.	Quantita'
1,0	3.3.05356.93	VITE TE M6X12 SPEC.	PZ	9,000
2,0	3.3.07876.93	VITE TE M6X16 SPEC.	PZ	1,000
3,0	4.5.03836.47	SPALLA PRINC. DESTRA IMBUSS.	PZ	1,000
4,0	3.3.09281.93	ATTACCO MOLLA LAMA ZINCATO	PZ	2,000
5,0	3.3.09282.93	FERMO LEVA LAMA ZINCATA	PZ	2,000
6,0	4.5.03837.47	SPALLA PRINC. SX IMB. GRIGIO ANT	PZ	1,000
7,0	3.3.04971.93	DISTANZIALE ESAGONALE 10X86	PZ	1,000
8,0	3.3.07877.93	VITE SPEC. TE M6X10 ZINC.	PZ	2,000
9,0	3.3.05355.93	DISTANZIALE ESAGONALE L=90	PZ	1,000
10,0	4.7.03880	SPAZZOLA ASSIEMATA	PZ	1,000
11,0	3.3.08955.93	DISTANZIALE /6,25X10X15,5 ZIN.	PZ	4,000
12,0	3.3.09738.93	RONDELLA SPECIALE /6,5X20X4 Z.	PZ	4,000
13,0	3.4.00030.93	VITE TSVEI M6X25 ZINCATA	PZ	4,000
14,0	3.3.09871.93	RONDELLA PER DISTANZIALE ZINC.	PZ	1,000

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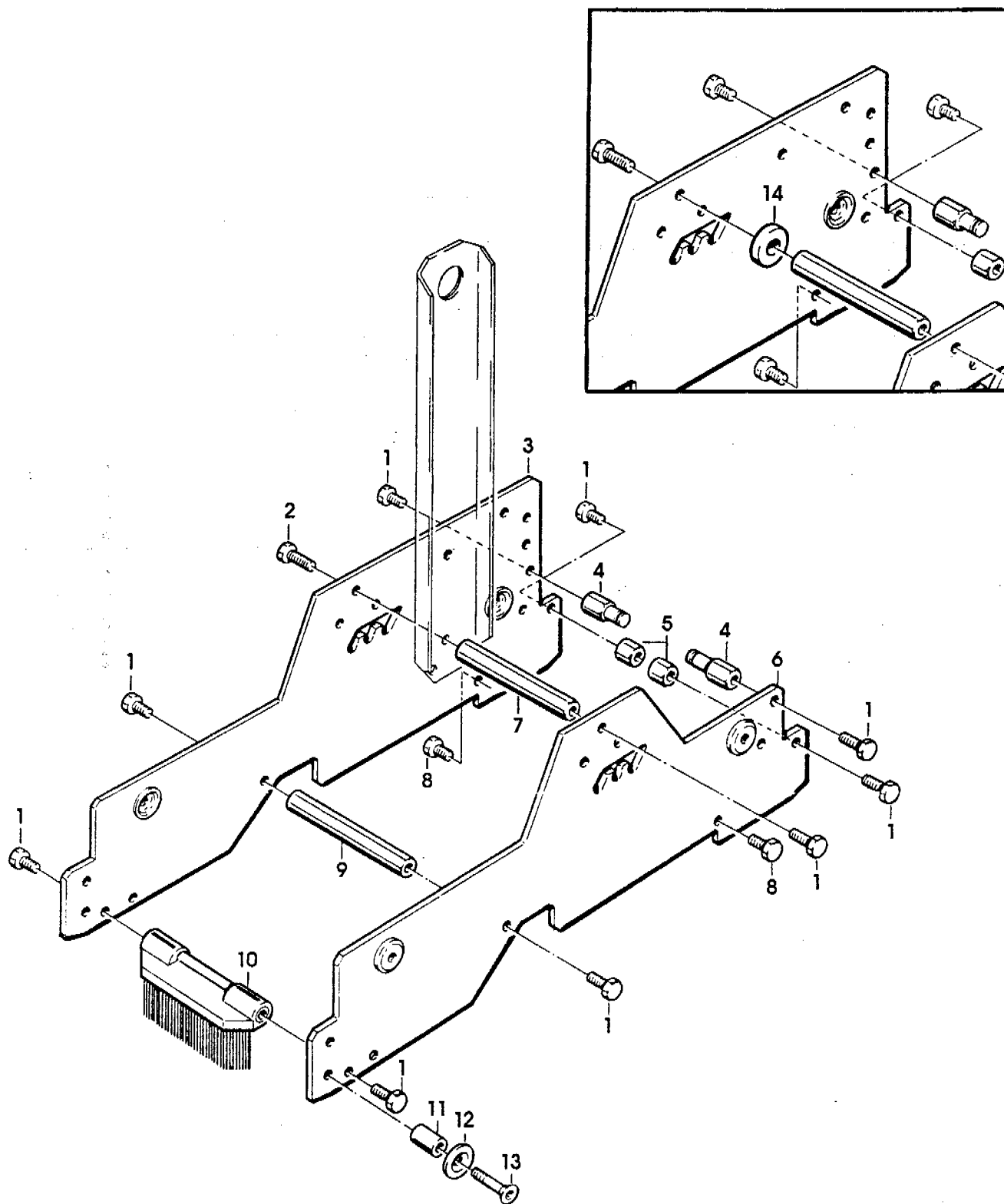
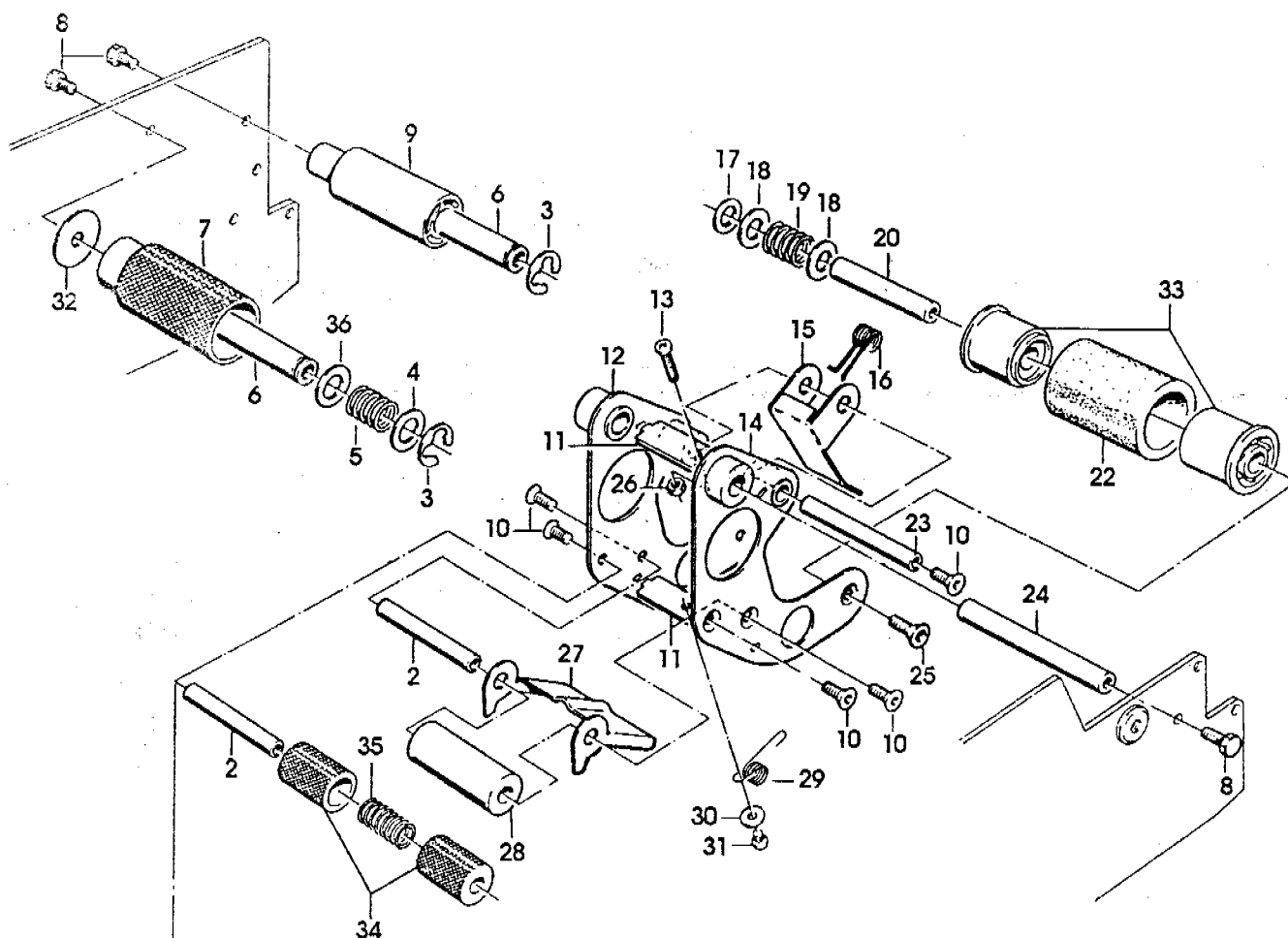


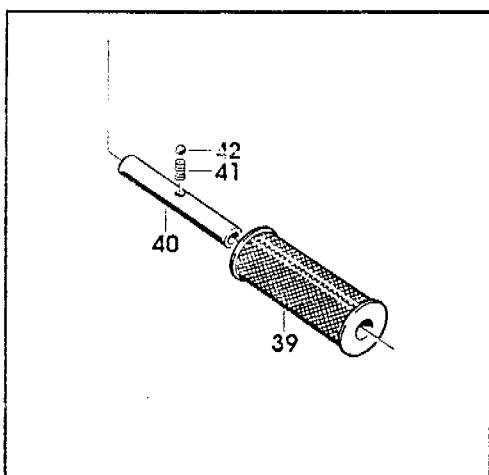
Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
2126,00	GRUPPO ENTRATA	0	4.9.04029	K11 UNITA' NASTRANTE - TOP
2126,00	GRUPPO ENTRATA	0	4.9.04480	K11/30° TOP
2126,00	GRUPPO ENTRATA	0	4.9.04763	K11/50 UNITA' NASTRANTE - TOP

Posizione	Ricambio	Descrizione	U.M.	Quantita'
2,0	3.3.09274.93	PERNO RULLI.GRUP.ENTRATA /8X60	PZ	2,000
3,0	3.4.00898.92	BENZING 10DIN6799 X ALBERO /12	PZ	1,000
4,0	3.4.00062.93	RONDELLA PIANA X VITE M12 ZINC	PZ	1,000
5,0	3.7.00226.94	MOLLA /11 FILO /1,8 L=16 NIK.	PZ	1,000
6,0	3.3.05426.90	PERNO PER RULLO FOSFATATO	PZ	1,000
7,0	4.3.04194	RULLO NON RITORNO ASS.K11 TOP	PZ	1,000
8,0	3.3.05356.93	VITE TE M6X12 SPEC.	PZ	4,000
9,0	3.1.00623.05	RULLO DI RINVIO K9-K13/3M	PZ	1,000
10,0	3.4.00516.93	VITE TSVEI M5X12 ZINCATA	PZ	6,000
11,0	3.2.02136.93	PIASTR.GRUPPO ENTRATA	PZ	2,000
12,0	4.6.03838.93	SPALLA DX.GR.ENTRATA IMBUSS.	PZ	1,000
13,0	3.4.00902.93	VITE TCBCR M4X16 ZINCATA	PZ	1,000
14,0	4.6.03839.93	SPALLA SX.GR.ENTRATA IMBUSS.	PZ	1,000
15,0	3.2.02140.93	CONFORMATORE	PZ	1,000
16,0	3.7.00181.94	MOLLA CONFORMATORE K11 NIKEL.	PZ	1,000
17,0	3.1.00079	RONDELLA NYLON /10,5/18X1	PZ	1,000
18,0	3.4.00219.93	RONDELLA PIANA X VITE M10 ZINC	PZ	4,000
19,0	3.7.00226.94	MOLLA /11 FILO /1,8 L=16 NIK.	PZ	2,000
20,0	3.3.12805.90	PERNO 10X60 K13 C/ESAG.INT.	PZ	1,000
22,0	3.1.00831.05	RULLO ENTRATA IN GOMMA K NERO	PZ	1,000
23,0	3.3.09275.93	PERNO GRUPPO LEVE /8X68 2° ZIN	PZ	1,000
24,0	3.3.00118.93	PERNO /10X90 - 2° ZINCATO	PZ	1,000
25,0	3.3.06148.93	VITE TSVEI M6X12 SPEC.K9-K13 ZINC.	PZ	2,000
26,0	3.4.00001.93	DADO M4 ZINCATO	PZ	1,000
27,0	3.2.02147.93	CONTRASTO NASTRO	PZ	1,000
28,0	3.1.00883.05	RULLO LISCIO	PZ	1,000
29,0	3.7.00296.98	MOLLA CONTRASTO NASTRO K11 K12	PZ	1,000
30,0	3.4.00039.93	RONDELLA TRIPLA X VITE M4 ZINC	PZ	1,000
31,0	3.4.00005.94	VITE TCBCR M4X6 NIKELATA	PZ	1,000
32,0	3.2.02456.98	RONDELLA PER RULLO NON RITORNO INOX K11/12	PZ	1,000
33,0	4.3.04187	BUSSOLA RULLO ENTRATA IN DUE META' K9/11	PZ	1,000
34,0	3.1.00966	SEMICORPO RULLINO ZIGRINATO K11	PZ	2,000
35,0	3.7.00188.93	MOLLA PER RULLINO ZIGRINATO K11/12	PZ	1,000
36,0	3.1.00891	RONDELLA NYLON 20X12,5X1 H75N	PZ	1,000
37,0	3.3.05427.90	PERNO RULLO N/RITORNO FOSFAT.	PZ	1,000
38,0	3.4.00818.96	DADO AUTOBL.NHT-70 M10X1 TROP.	PZ	1,000
39,0	4.3.04632	RULLINO ZIGRINATO ASS.K11	PZ	1,000
40,0	3.3.13174.93	PERNO CON FORO X RULLINO ZIGR. K11 ZINCATO	PZ	1,000
41,0	3.7.00222	MOLLA /2,2 FILO /0,4 L=8	PZ	1,000
42,0	3.4.00840	SFERA 1/8"	PZ	1,000

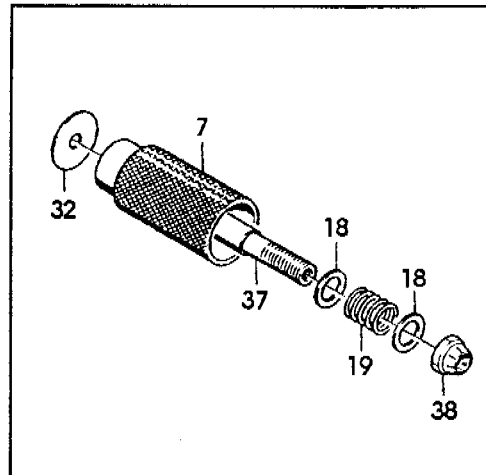
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Da Luglio 1994  
Since July, 1994



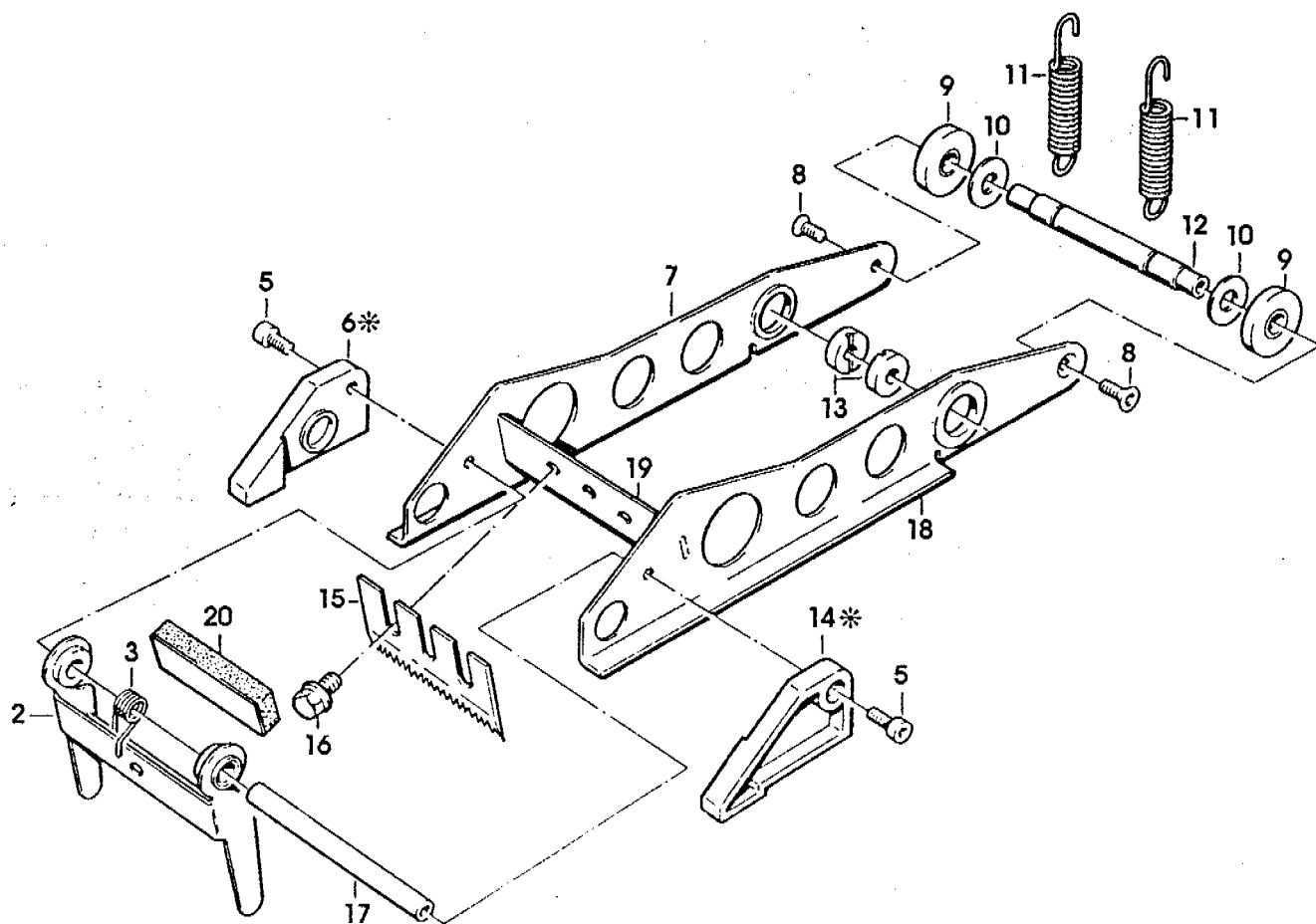
Da Settembre 1992  
Since September, 1992



2127,00	GRUPPO PORTALAMA	000000	4.9.04029	K11 UNITA' NASTRANTE - TOP
2127,00	GRUPPO PORTALAMA	000000	4.9.04030	K11 UNITA' NASTRANTE - BOTTOM
2127,00	GRUPPO PORTALAMA	000000	4.9.04763	UNITA' NASTRANTE K11/50 TOP
2127,00	GRUPPO PORTALAMA	000000	4.9.04764	UNITA' NASTRANTE K11/50 BOTTOM

Posizione	Cod. Ricambio	Descrizione	U.M.	Quantita'
2,0	4.6.03845.93	PROTEZIONE LAMA COMPLETO	PZ	1,000
3,0	3.7.00180.94	MOLLA PROTEZ.LAMA K11 NIKELATA	PZ	1,000
5,0	3.4.00256.93	VITE TCEI M4X10 ZINCATA	PZ	2,000
6,0	3.1.00879	PATTINO DX	PZ	1,000
7,0	4.5.03844.40	SPALLA PORTALAMA DX GIALLA	PZ	1,000
8,0	3.4.00054.93	VITE TSVEI M4X10 ZINCATA	PZ	2,000
9,0	3.1.00881.05	AMMORTIZZATORI LAMA NERI	PZ	2,000
10,0	3.3.09280.93	RANELLA SPEC. GRUPPO LATERALE K11 ZINCATO	PZ	2,000
11,0	3.7.00227.94	MOLLA PORTALAMA K9-K13/3M NIK.	PZ	2,000
12,0	3.3.09279.93	PERNO ATTAC.MOLLE LEVA LAMA	PZ	1,000
13,0	3.3.00129	PERNO CERNIERA PORTALAMA K	PZ	2,000
14,0	3.1.00880	PATTINO SX	PZ	1,000
15,0	3.2.00068	LAMA X PP DA 2"	PZ	1,000
16,0	3.4.01026.93	VITE TE A COLLETO M5X8 ZINC.	PZ	2,000
17,0	3.3.05431.93	PERNO SUPP.FELTRO /6X82-2" ZIN	PZ	1,000
18,0	4.5.03961.40	SPALLA PORTALAMA SX GIALLA	PZ	1,000
19,0	3.2.00094.93	PIASTRINA PER LAMA	PZ	1,000
20,0	3.1.00970.05	AMMORTIZZATORE PROTEZ.LAMA K11 (FASSON 359)	PZ	1,000

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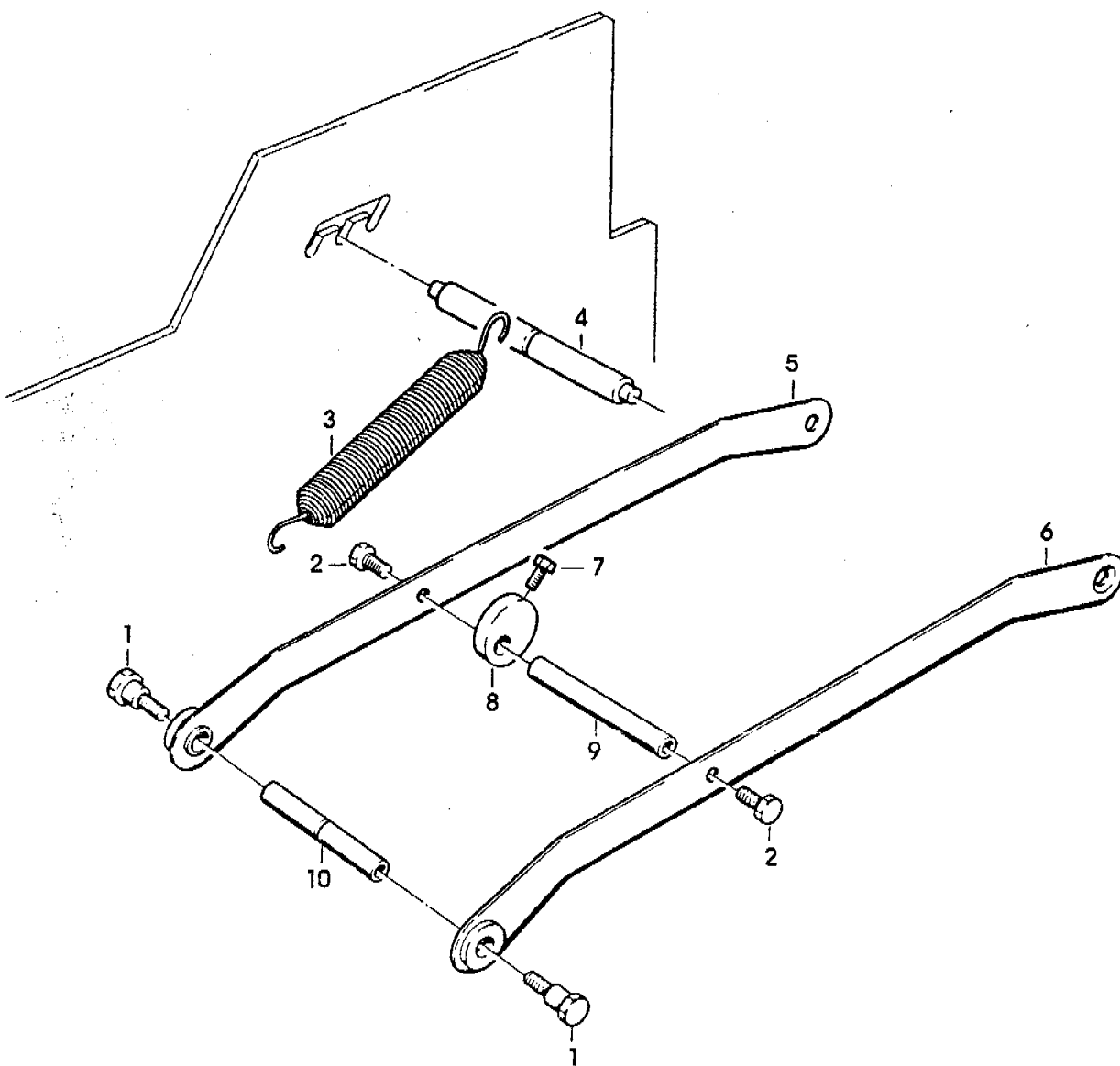


\* = SOLO PER K11  
FOR K11 ONLY

2128,00	GRUPPO LEVE	000000	4.9.04029	K11 UNITA' NASTRANTE - TOP
2128,00	GRUPPO LEVE	000000	4.9.04480	K11/30" TOP
2128,00	GRUPPO LEVE	000000	4.9.04763	UNITA'NASTRANTE K11/50 TOP

Posizione	Cod.Ricambio	Descrizione	U.M.	Quantita'
1,0	3.3.09278.93	VITE A COLLETO PER LEVA ZINC.	PZ	2,000
2,0	3.4.00056.93	VITE TE M5X10 ZINCATA	PZ	2,000
3,0	3.7.00178.94	MOLLA PRINC.K11 TOP NIKELATA	PZ	1,000
4,0	3.3.09273.93	PERNO ATTAC.MOLLA /10X98,5-2"	PZ	1,000
5,0	4.6.03842.93	LEVA DESTRA IMBUSSOL.	PZ	1,000
6,0	4.6.03843.93	LEVA SINISTRA IMBUSSOL.	PZ	1,000
7,0	3.4.00329.93	VITE TE M5X16 ZINCATA	PZ	1,000
8,0	3.3.09276.93	ECCENTRICO DI FERMO ZINCATO	PZ	1,000
9,0	3.3.09275.93	PERNO GRUPPO LEVE /8X68 2" ZIN	PZ	1,000
10,0	3.3.09277.93	PERNO ATTACCO MOLLA /8X60-2"	PZ	1,000

===== Data 12/03/91 =





2129,00	GRUPPO USCITA	000000	4.9.04029	K11 UNITA' NASTRANTE - TOP
2129,00	GRUPPO USCITA	000000	4.9.04030	K11 UNITA' NASTRANTE - BOTTOM
2129,00	GRUPPO USCITA	000000	4.9.04480	K11/30" TOP
2129,00	GRUPPO USCITA	000000	4.9.04479	K11/30" BOTTOM
2129,00	GRUPPO USCITA	000000	4.9.04763	UNITA'NASTRANTE K11/50 TOP
2129,00	GRUPPO USCITA	000000	4.9.04764	UNITA'NASTRANTE K11/50 BOTTOM

Posizione	Cod.Ricambio	Descrizione	U.M.	Quantita'
1,0	3.3.06148.93	VITE TSVEI M6X12 SPEC.K9-K13 ZINC.	PZ	2,000
2,0	4.6.03840.93	SPALLA DX.GRUPPO USC.IMBUSS.	PZ	1,000
3,0	3.3.05356.93	VITE TE M6X12 SPEC.	PZ	2,000
4,0	4.6.03841.93	SPALLA SX.GRUPPO USC. IMBUSS.	PZ	1,000
5,0	3.3.00118.93	PERNO /10X90 - 2" ZINCATO	PZ	1,000
6,0	3.1.00832.05	RULLO USCITA IN GOMMA K9 NERO	PZ	1,000
7,0	3.1.00826.05	BUSSOLA RULLO USCITA	PZ	1,000
8,0	3.3.05428.93	PERNO /10X60	PZ	1,000

===== Data 12/03/91 =

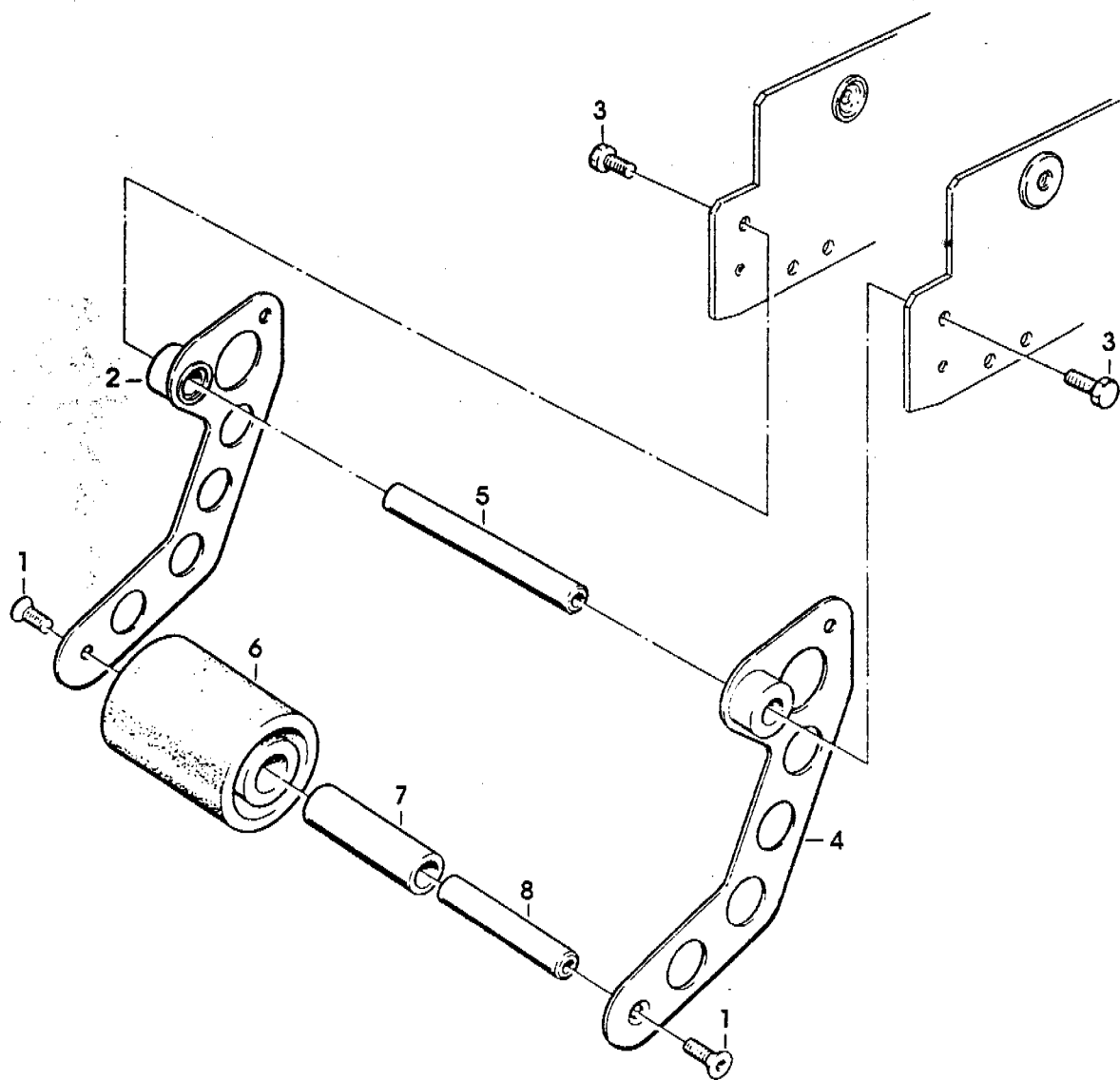
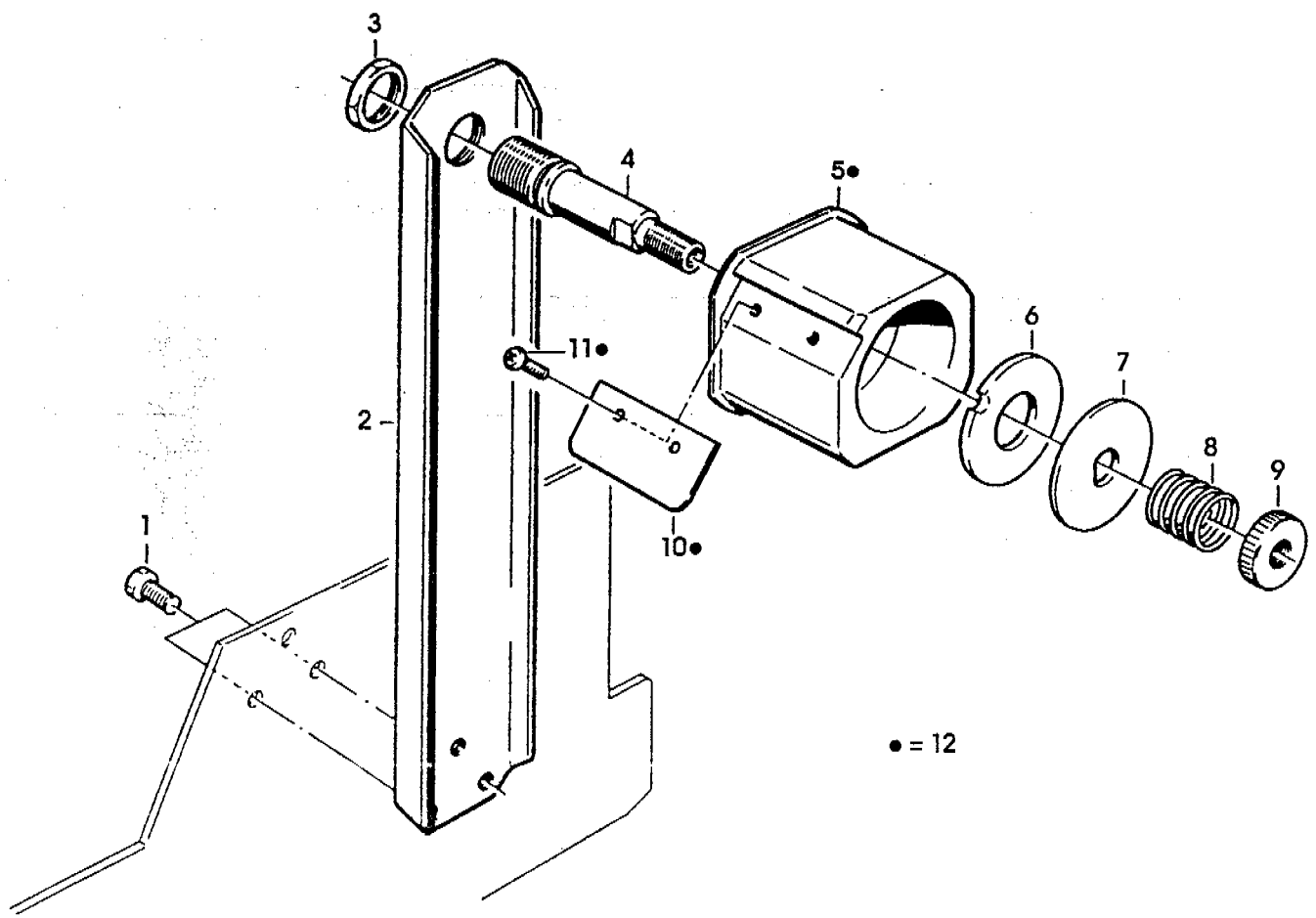


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
2130,00	GRUPPO PORTAROTOLO	0	4.9.04029	K11 UNITA' NASTRANTE - TOP
2130,00	GRUPPO PORTAROTOLO	0	4.9.04030	K11 UNITA' NASTRANTE - BOTTOM
2130,00	GRUPPO PORTAROTOLO	0	4.9.04480	K11/30" TOP
2130,00	GRUPPO PORTAROTOLO	0	4.9.04479	K11/30" BOTTOM
2130,00	GRUPPO PORTAROTOLO	0	4.9.04763	K11/50 UNITA' NASTRANTE - TOP
2130,00	GRUPPO PORTAROTOLO	0	4.9.04764	K11/50 UNITA' NASTRANTE - BOTTOM

Posizione	Ricambio	Descrizione	U.M.	Quantita'
1,0	3.3.05356.93	VITE TE M6X12 SPEC.	PZ	2,000
2,0	3.2.00835.93	BRACCIO PORTAROTOLO K	PZ	1,000
3,0	3.3.00070.93	DADO ALTO M18X1 ZINCATO	PZ	1,000
4,0	3.5.02311.90	PERNO X PORTAROTOLO K13/3M	PZ	1,000
5,0	4.6.01651.05	PORTAROTOLO K/2" COMP.	PZ	1,000
6,0	3.1.00926	FRIZIONE PORTAROTOLO	PZ	1,000
7,0	3.2.00756.93	CONTRASTO FRIZIONE K	PZ	1,000
8,0	3.7.00215.94	MOLLA PORTAROTOLO K NIKELATA	PZ	1,000
9,0	3.3.04438.93	GHIERA REGOLAZ. PORTAR. K ZINC.	PZ	1,000
10,0	3.2.00085.90	SPATOLA PORTAROTOLO K	PZ	1,000
11,0	3.4.00830.93	VITE TCBCR AUTOF. 75PX8 ZINCATA	PZ	2,000
12,0	4.7.04932	PORTAROTOLO K/2" ASS.	PZ	1,000

===== Data 15/12/94 =



2189,00	GRUPPO SPALLE	000000	4.9.04030	K11 UNITA' NASTRANTE - BOTTOM
2189,00	GRUPPO SPALLE	000000	4.9.04479	K11/30" BOTTOM
2189,00	GRUPPO SPALLE	000000	4.9.04764	UNITA' NASTRANTE K11/50 BOTTOM

Posizione	Cod. Ricambio	Descrizione	U.M.	Quantita'
1,0	3.3.05356.93	VITE TE M6X12 SPEC.	PZ	9,000
2,0	3.3.07876.93	VITE TE M6X16 SPEC.	PZ	1,000
3,0	4.5.04033.47	SPALLA PRINCIPALE DX IMBUSSOL.	PZ	1,000
4,0	3.3.09281.93	ATTACCO MOLLA LAMA ZINCATO	PZ	2,000
5,0	3.3.09282.93	FERMO LEVA LAMA ZINCATA	PZ	2,000
6,0	4.5.04034.47	SPALLA PRINCIPALE SX IMBUSSOL.	PZ	1,000
		GRIGIA ANT.		
7,0	3.3.04971.93	DISTANZIALE ESAGONALE 10X86	PZ	1,000
8,0	3.3.07877.93	VITE SPEC. TE M6X10 ZINC.	PZ	2,000
9,0	3.3.05355.93	DISTANZIALE ESAGONALE L=90	PZ	1,000
10,0	4.7.03880	SPAZZOLA ASSIEMATA	PZ	1,000
11,0	3.4.00175.93	RONDELLA PIANA X VITE M6 ZINC.	PZ	4,000
12,0	3.3.06359.93	DISTANZIALE PORTA UNITA'	PZ	4,000

===== Data 12/03/91 : =====

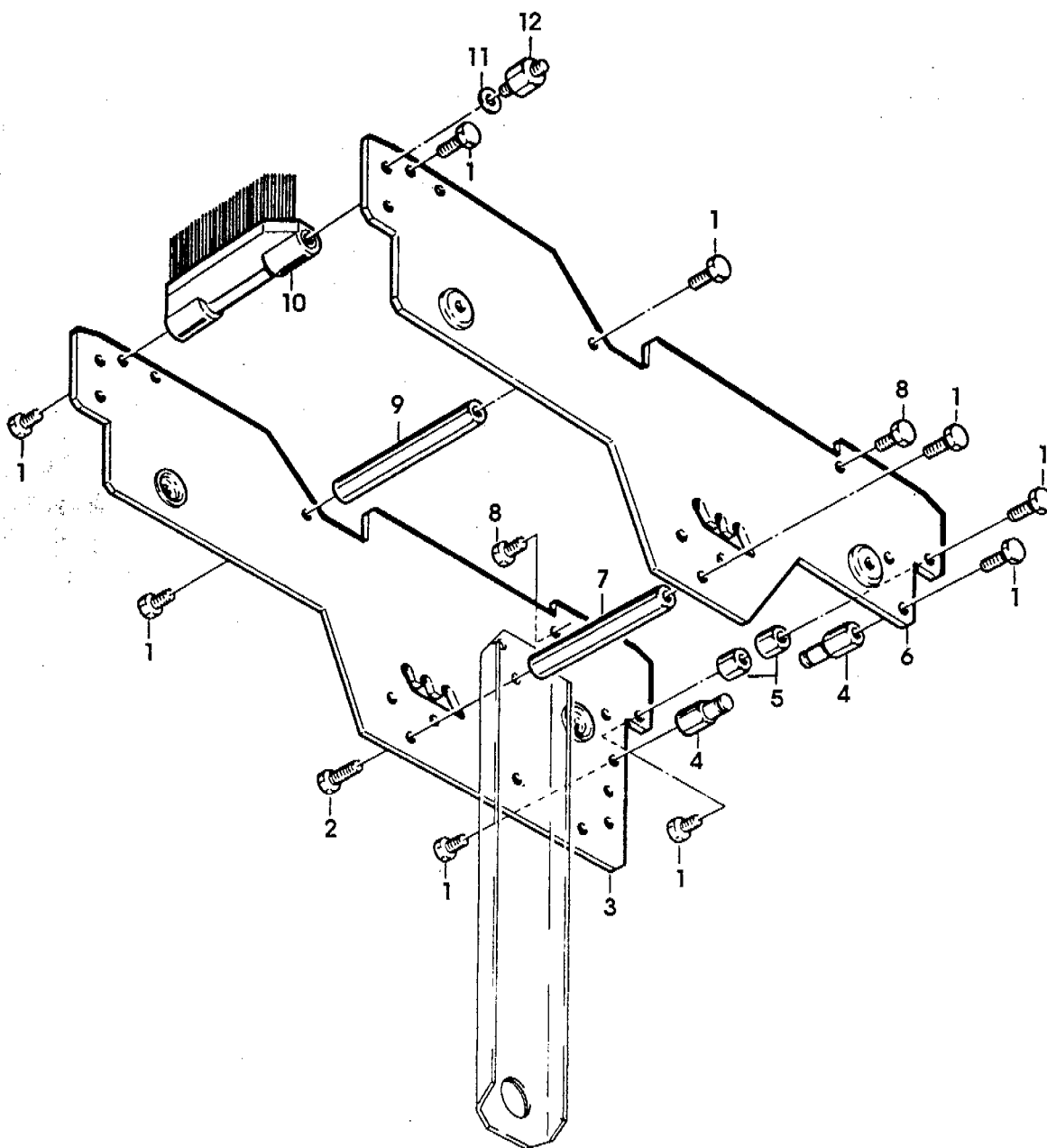
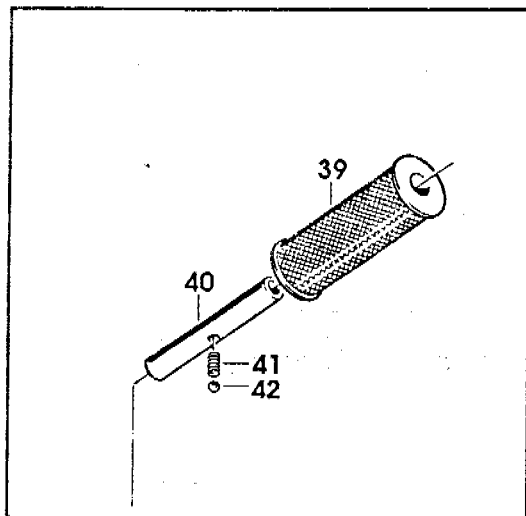


Figura	Descrizione figura	Magaz.	Prodotto	Descrizione
2190,00	GRUPPO ENTRATA	0	4.9.04030	K11 UNITA' NASTRANTE - BOTTOM
2190,00	GRUPPO ENTRATA	0	4.9.04479	K11/30 BOTTOM
2190,00	GRUPPO ENTRATA	0	4.9.04764	K11/50 UNITA' NASTRANTE - BOTTOM

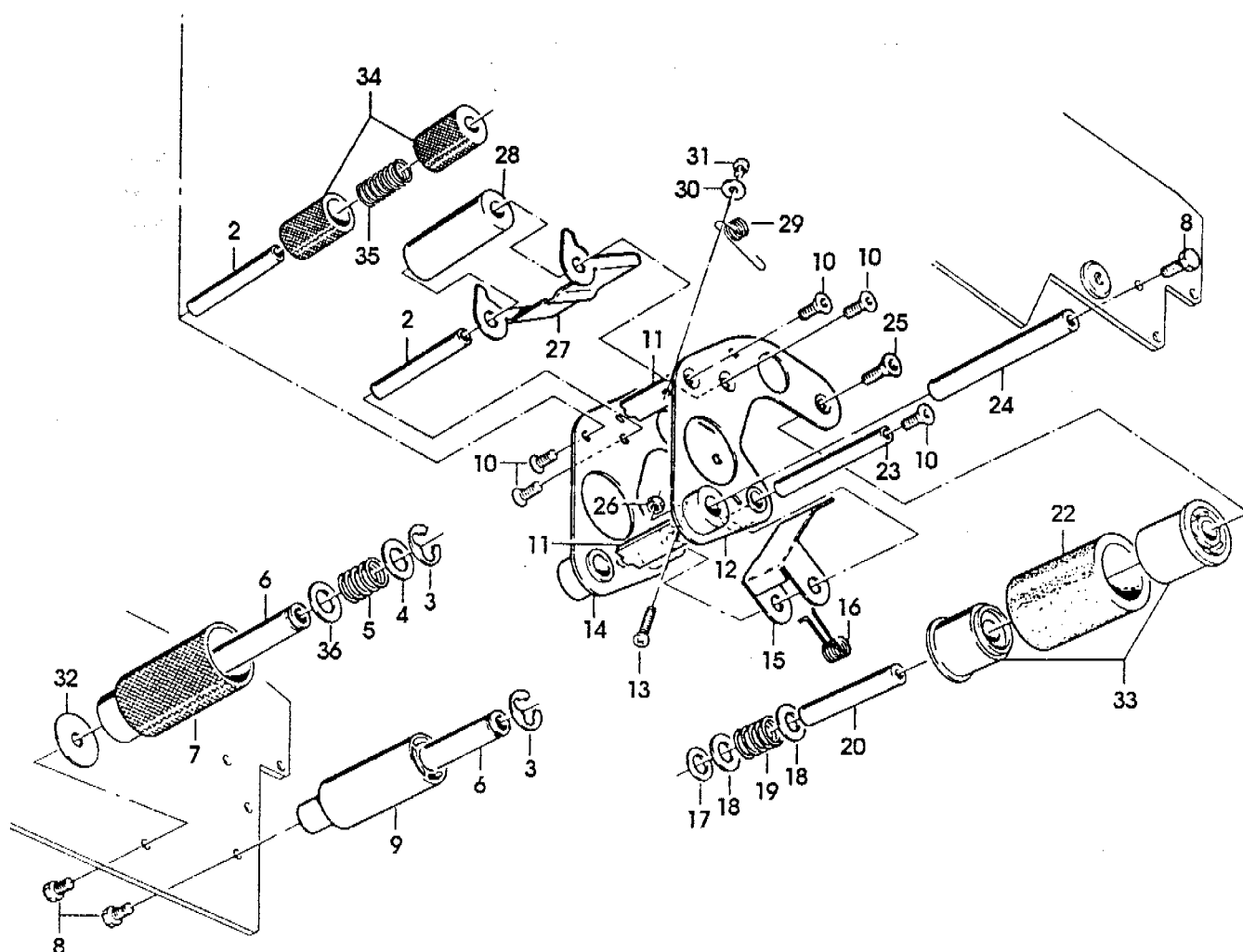
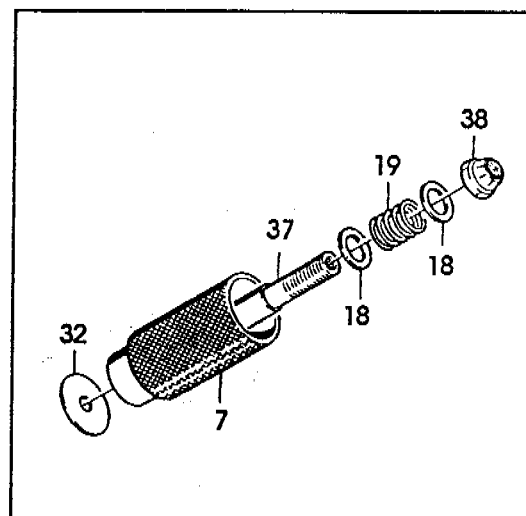
Posizione	Ricambio	Descrizione	U.M.	Quantita'
2,0	3.3.09274.93	PERNO RULLI.GRUP.ENTRATA /8X60	PZ	2,000
3,0	3.4.00898.92	BENZING 10DIN6799 X ALBERO /12	PZ	1,000
4,0	3.4.00062.93	RONDELLA PIANA X VITE M12 ZINC	PZ	1,000
5,0	3.7.00226.94	MOLLA /11 FILO /1,8 L=16 NIK.	PZ	1,000
6,0	3.3.05426.90	PERNO PER RULLO FOSFATATO	PZ	1,000
7,0	4.3.04195	RULLO NON RITORNO ASS.K11 BOTT	PZ	1,000
8,0	3.3.05356.93	VITE TE M6X12 SPEC.	PZ	4,000
9,0	3.1.00623.05	RULLO DI RINVIO K9-K13/3M	PZ	1,000
10,0	3.4.00516.93	VITE TSVEI M5X12 ZINCATA	PZ	6,000
11,0	3.2.02136.93	PIASTR.GRUPPO ENTRATA	PZ	2,000
12,0	4.6.03838.93	SPALLA DX.GR.ENTRATA IMBUSS.	PZ	1,000
13,0	3.4.00902.93	VITE TCBCR M4X16 ZINCATA	PZ	1,000
14,0	4.6.03839.93	SPALLA SX.GR.ENTRATA IMBUSS.	PZ	1,000
15,0	3.2.02140.93	CONFORMATORE	PZ	1,000
16,0	3.7.00181.94	MOLLA CONFORMATORE K11 NIKEL.	PZ	1,000
17,0	3.1.00079	RONDELLA NYLON /10,5/18X1	PZ	1,000
18,0	3.4.00219.93	RONDELLA PIANA X VITE M10 ZINC	PZ	4,000
19,0	3.7.00226.94	MOLLA /11 FILO /1,8 L=16 NIK.	PZ	2,000
20,0	3.3.12805.90	PERNO 10X60 K13 C/ESAG.INT.	PZ	1,000
22,0	3.1.00831.05	RULLO ENTRATA IN GOMMA K NERO	PZ	1,000
23,0	3.3.09275.93	PERNO GRUPPO LEVE /8X68 2" ZIN	PZ	1,000
24,0	3.3.00118.93	PERNO /10X90 - 2" ZINCATO	PZ	1,000
25,0	3.3.06148.93	VITE TSVEI M6X12 SPEC.K9-K13 ZINC.	PZ	2,000
26,0	3.4.00001.93	DADO M4 ZINCATO	PZ	1,000
27,0	3.2.02147.93	CONTRASTO NASTRO	PZ	1,000
28,0	3.1.00883.05	RULLO LISCIO	PZ	1,000
29,0	3.7.00296.98	MOLLA CONTRASTO NASTRO K11 K12	PZ	1,000
30,0	3.4.00039.93	RONDELLA TRIPLA X VITE M4 ZINC	PZ	1,000
31,0	3.4.00005.94	VITE TCBCR M4X6 NIKELATA	PZ	1,000
32,0	3.2.02456.98	RONDELLA PER RULLO NON RITORNO INOX K11/12	PZ	1,000
33,0	4.3.04187	BUSSOLA RULLO ENTRATA IN DUE META' K9/11	PZ	1,000
34,0	3.1.00966	SEMICORPO RULLINO ZIGRINATO K11	PZ	2,000
35,0	3.7.00188.93	MOLLA PER RULLINO ZIGRINATO K11/12	PZ	1,000
36,0	3.1.00891	RONDELLA NYLON 20X12,5X1 H75N	PZ	1,000
37,0	3.3.05427.90	PERNO RULLO M/RITORNO FOSFAT.	PZ	1,000
38,0	3.4.00818.96	DADO AUTOBL.MHT-70 M10X1 TROP.	PZ	1,000
39,0	4.3.04632	RULLINO ZIGRINATO ASS.K11	PZ	1,000
40,0	3.3.13174.93	PERNO CON FORO X RULLINO ZIGR. K11 ZINCATO	PZ	1,000
41,0	3.7.00222	MOLLA /2,2 FILO /0,4 L=8	PZ	1,000
42,0	3.4.00840	SFERA 1/8"	PZ	1,000

===== Data 25/10/94 =

Da Luglio 1994  
Since July, 1994



Da Settembre 1992  
Since September, 1992

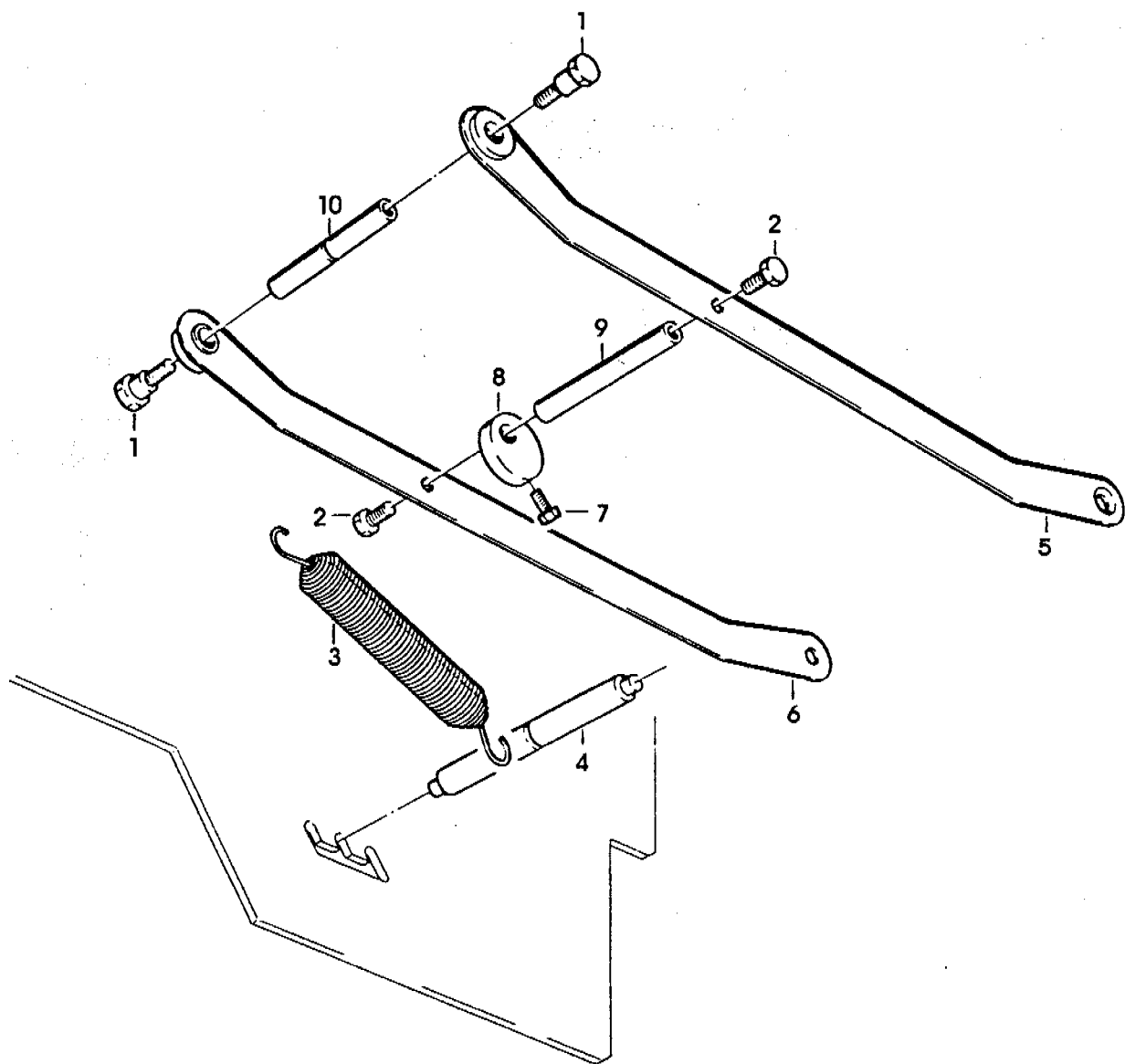




2193,00	GRUPPO LEVE	000000 4.9.04030	K11 UNITA' NASTRANTE - BOTTOM
2193,00	GRUPPO LEVE	000000 4.9.04479	K11/30" BOTTOM
2193,00	GRUPPO LEVE	000000 4.9.04764	UNITA' NASTRANTE K11/50 BOTTOM

Posizione	Cod. Ricambio	Descrizione	U.M.	Quantita'
1,0	3.3.09278.93	VITE A COLLETO PER LEVA ZINC.	PZ	2,000
2,0	3.4.00056.93	VITE TE M5X10 ZINCATA	PZ	2,000
3,0	3.7.00179.92	MOLLA PRINCIPALE BOTTOM	PZ	1,000
4,0	3.3.09273.93	PERNO ATTAC. MOLLA /10X98,5-2"	PZ	1,000
5,0	4.6.03842.93	LEVA DESTRA IMBUSSOL.	PZ	1,000
6,0	4.6.03843.93	LEVA SINISTRA IMBUSSOL.	PZ	1,000
7,0	3.4.00329.93	VITE TE M5X16 ZINCATA	PZ	1,000
8,0	3.3.09276.93	ECCENTRICO DI FERMO ZINCATO	PZ	1,000
9,0	3.3.09275.93	PERNO GRUPPO LEVE /8X60 2" ZIN	PZ	1,000
10,0	3.3.09277.93	PERNO ATTACCO MOLLA /8X60-2"	PZ	1,000

===== Data 12/03/91 =



2786,00 GRUPPO PORTALAMA

000000 4.9.04480

K11/30" TOP

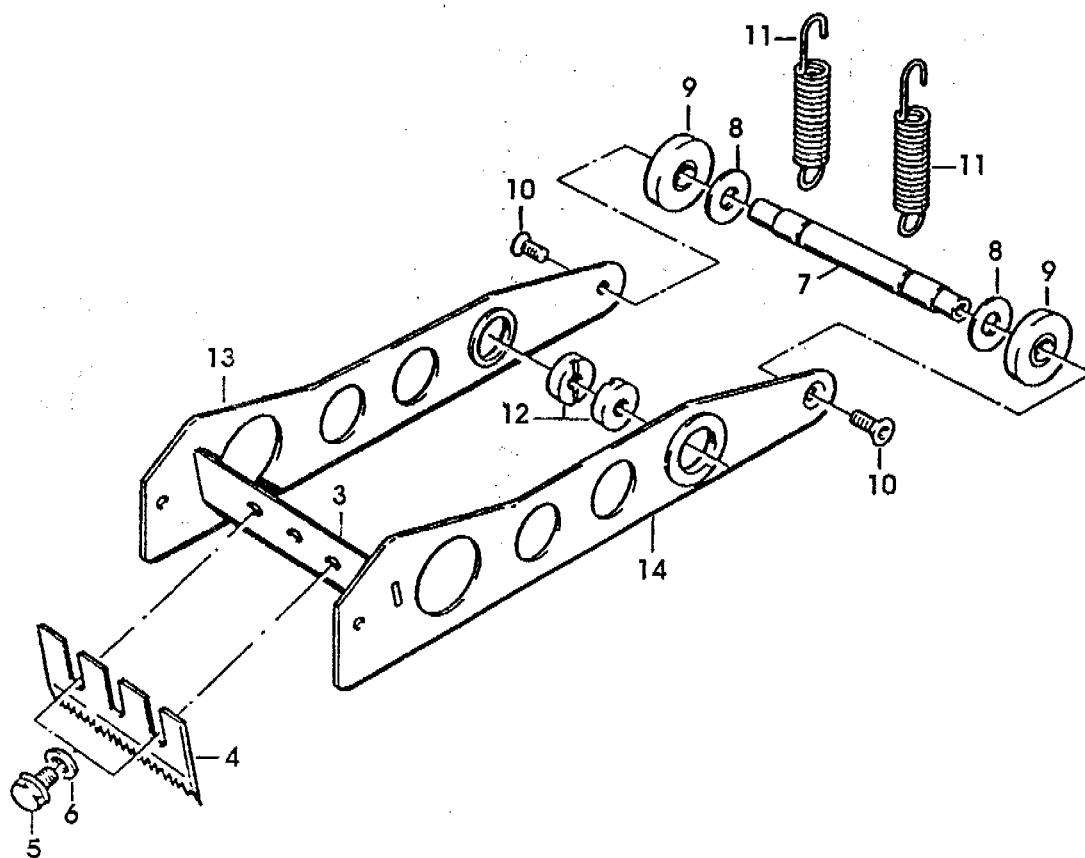
2786,00 GRUPPO PORTALAMA

000000 4.9.04479

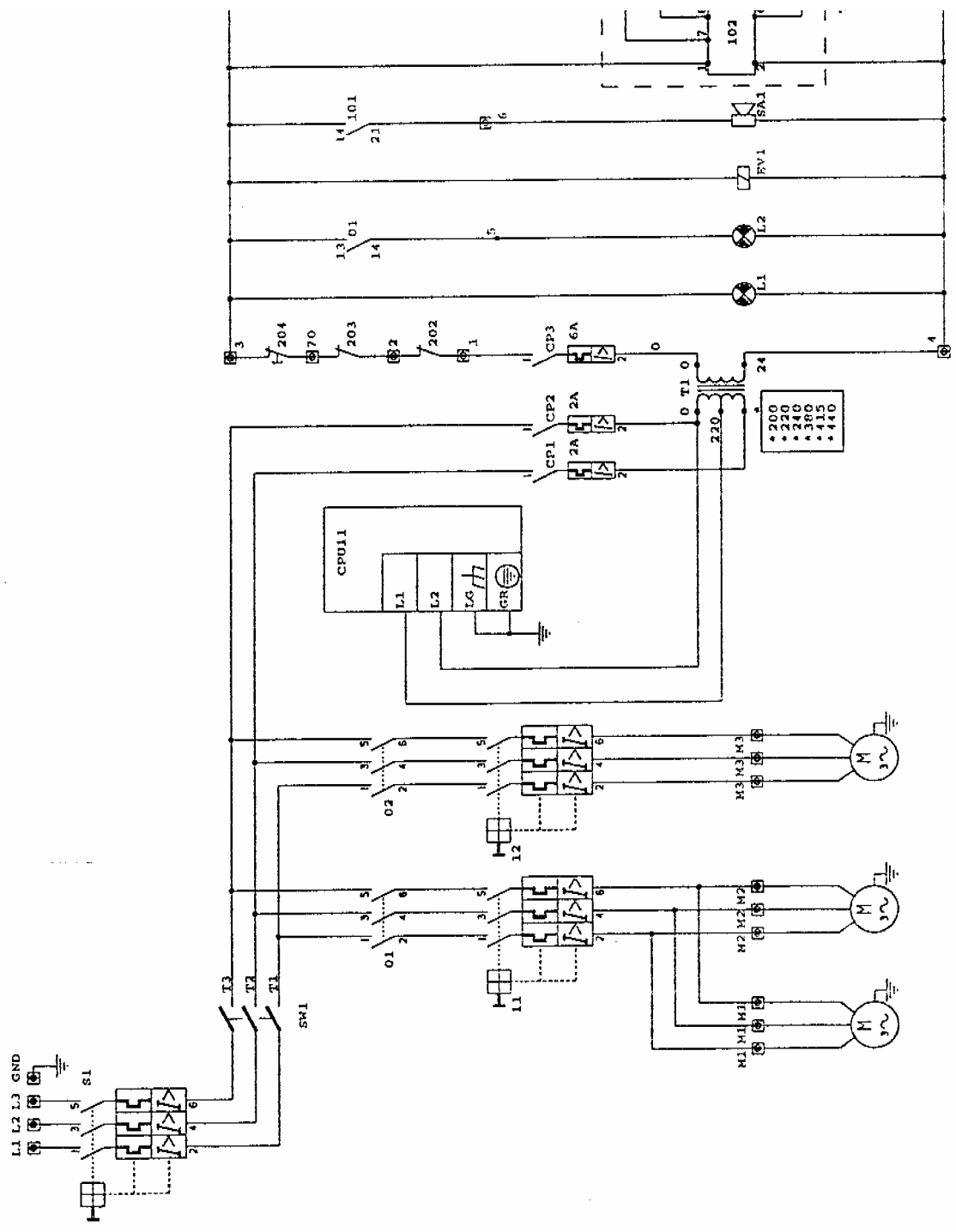
K11/30" BOTTOM

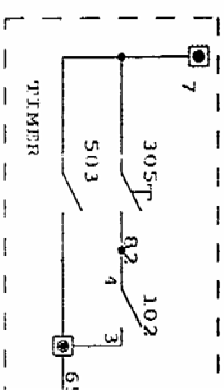
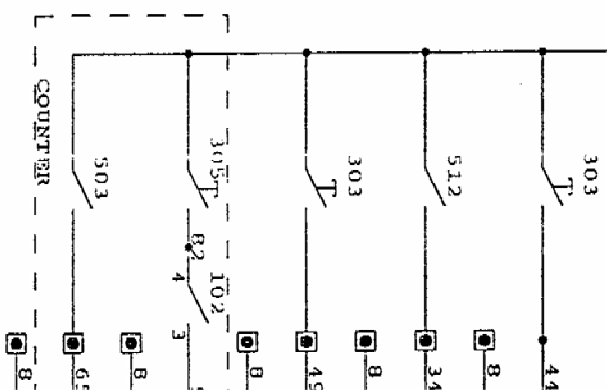
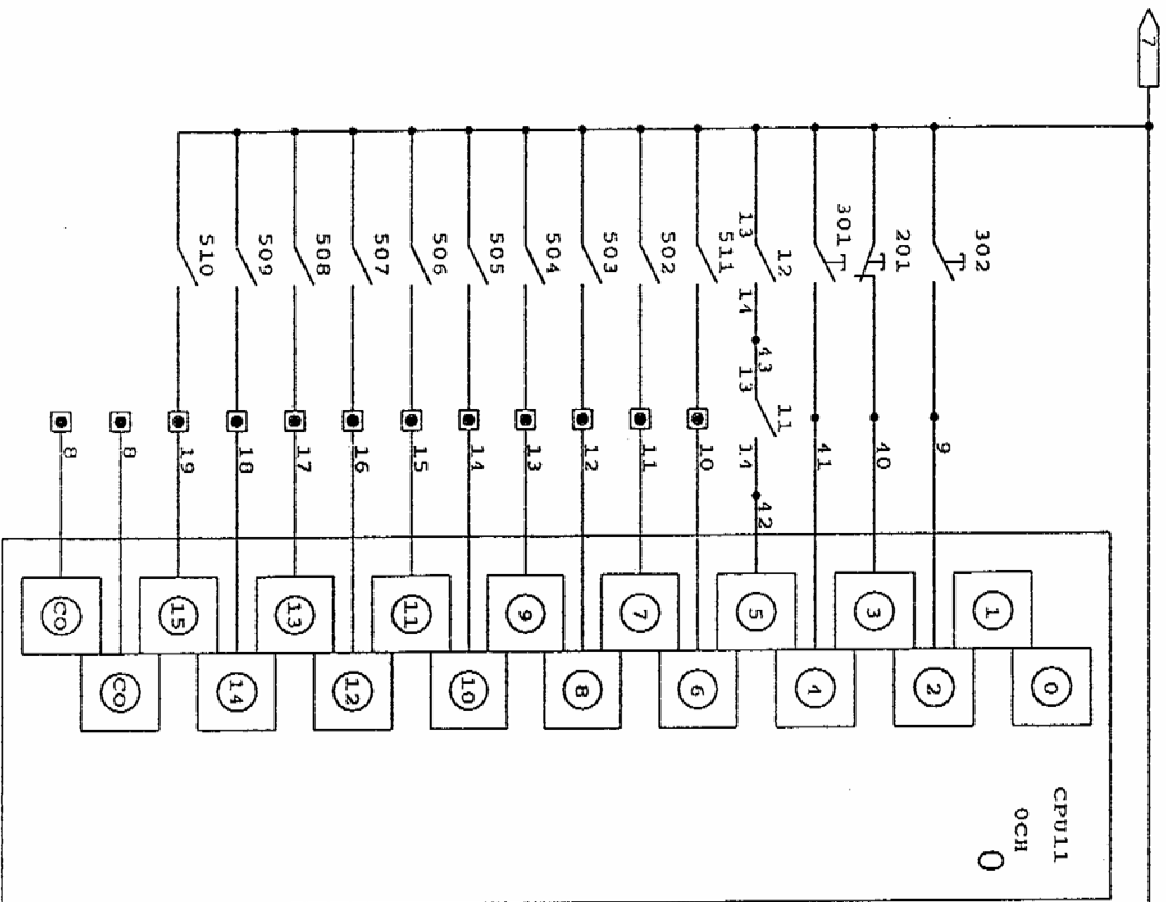
Posizione	Cod.ricambio	Descrizione	U.M.	Quantita'
3,0	3.2.00094.93	PIASTRINA PER LAMA K	PZ	1,000
4,0	3.2.00068	LAMA X PP DA 2"	PZ	1,000
5,0	3.4.01026.93	VITE TE A COLLETO M5X8 ZINC.	PZ	2,000
6,0	3.4.00051.93	RONDELLA PIANA X VITE M5 ZINC.	PZ	6,000
7,0	3.3.09279.93	PERNO ATTAC.MOLLE LEVA LAMA	PZ	1,000
8,0	3.3.09280.93	RANELLA SPEC. GRUPPO LATERALE K11 ZINCATO	PZ	2,000
9,0	3.1.00881.05	AMMORTIZZATORI LAMA NERI	PZ	2,000
10,0	3.4.00054.93	VITE TSVEI M4X10 ZINCATA	PZ	2,000
11,0	3.7.00227.94	MOLLA PORTALAMA K9-K13/3M NIK.	PZ	2,000
12,0	3.3.00129	PERNO CERNIERA PORTALAMA K	PZ	2,000
13,0	4.5.04409.40	SPALLA PORTALAMA DX C/CERNIERA K11/30 GIALLA	PZ	1,000
14,0	4.5.04410.40	SPALLA PORTALAMA SX C/CERNIERA K11/30 GIALLA	PZ	1,000

Data 08/07/92 =

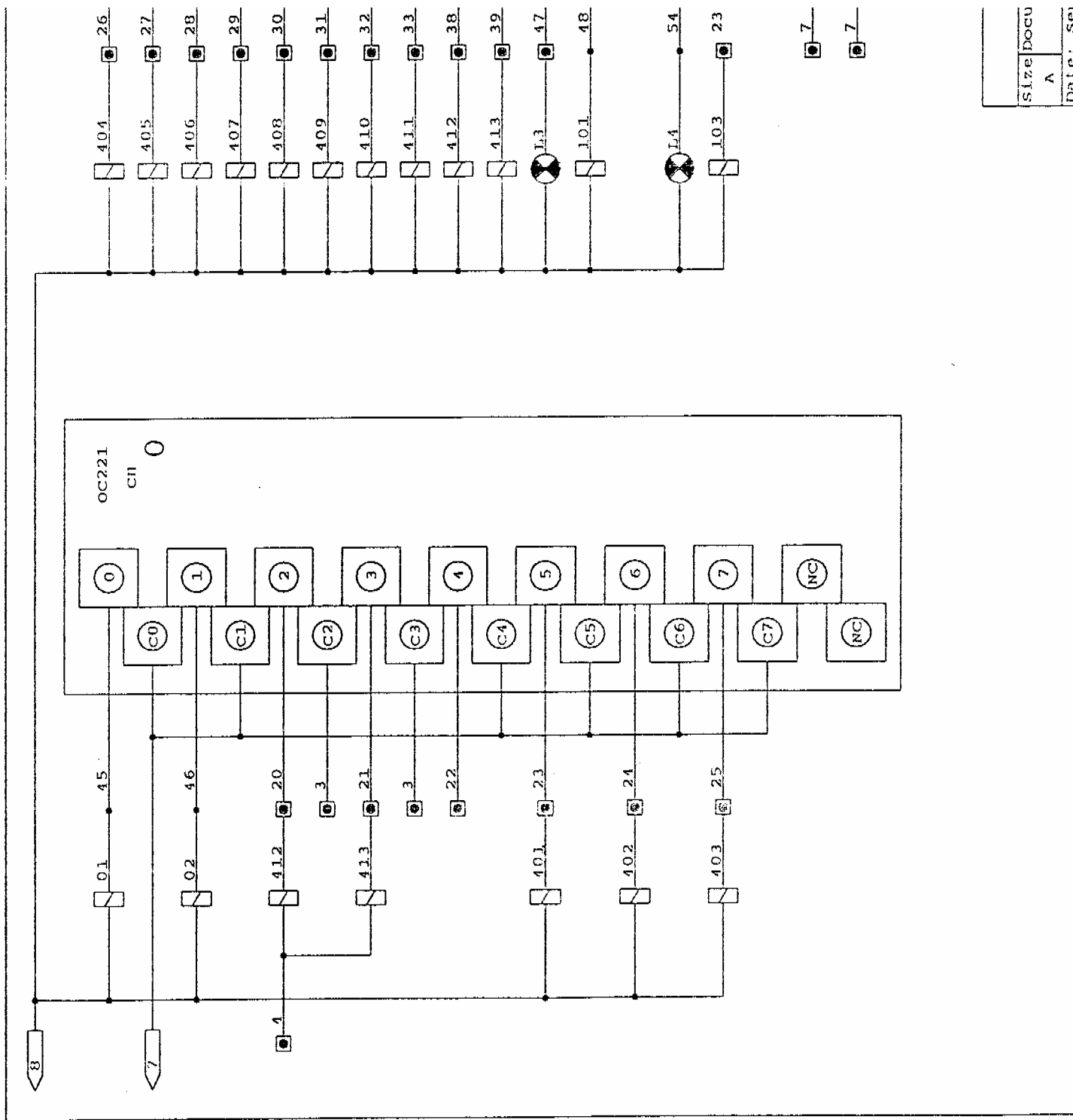


**ENCLOSURES**





Size	Docu
A	
Date:	



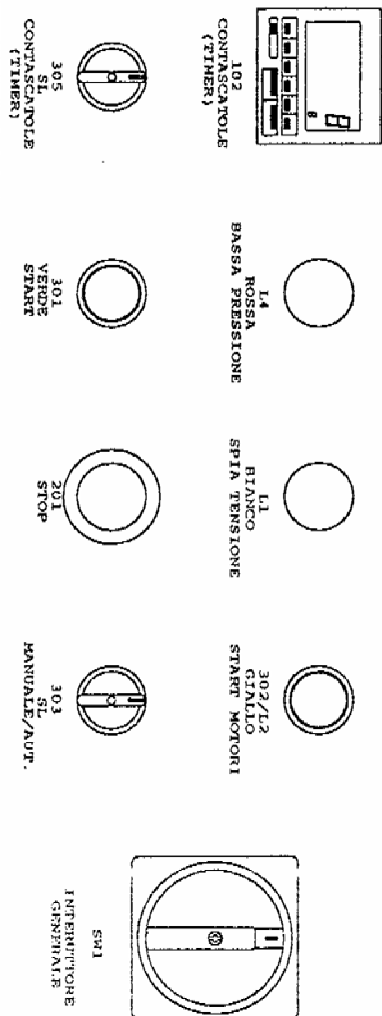


# FORMATORE F144

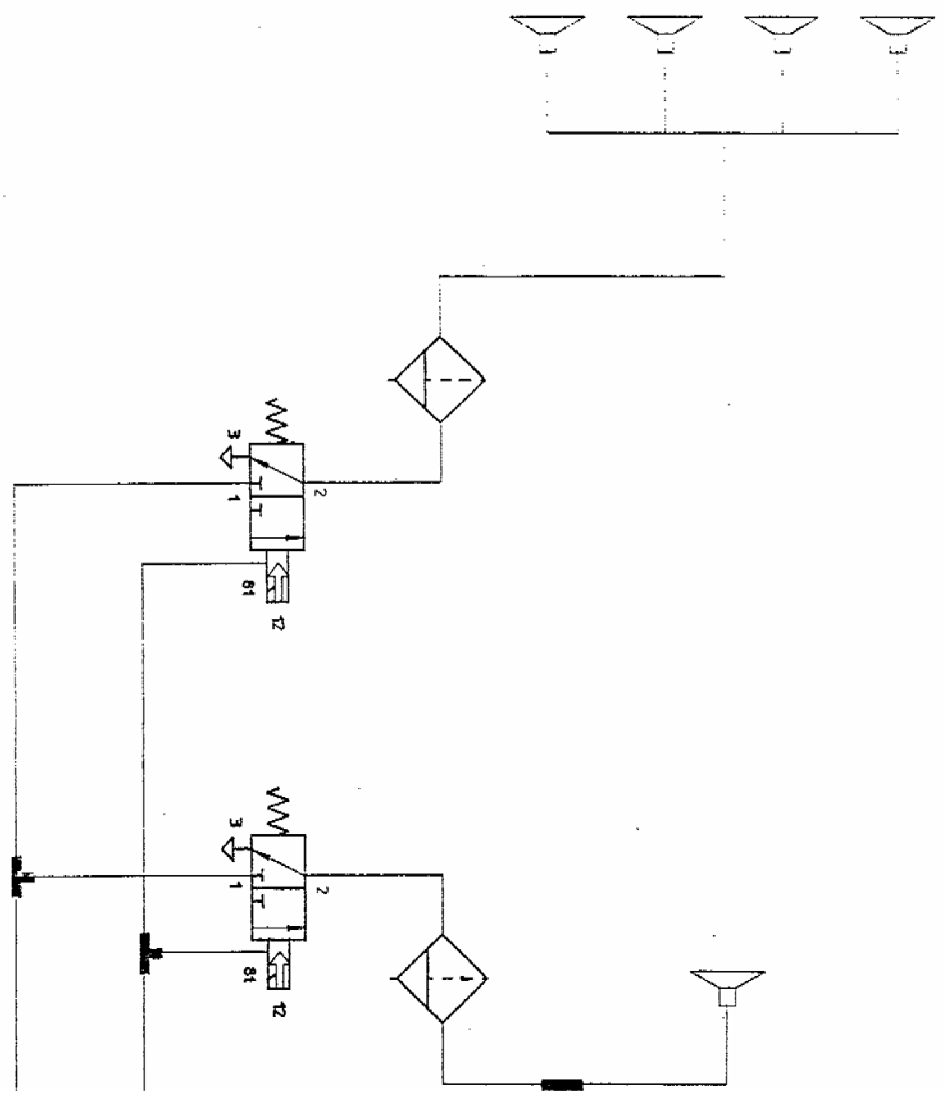
INGRESSI

USCITE

002	MARCIA MOTOR. - POMPA VUOTO	10000	MOTORI
003	STOP - FINE CICLO	10001	POMPA VUOTO
004	START - INIZIO CICLO	10002	EV. VUOTO VENTOSA 1
005	TERMICO MOTOR. - POMPA VUOTO	10003	EV. VUOTO VENTOSA 2
006	PRESSOSTATO	10004	NC
007	F.C. PISTONE 1 INDIETRO	10005	EV. PISTONE 1 AVANTI
008	F.C. PISTONE 2 INDIETRO	10006	EV. PISTONE 1 INDIETRO
009	F.C. PISTONE 1 AVANTI	10007	EV. PISTONE 1 FRENO
010	FOT. CHIUDIFALDA LATERALE	10100	EV. FERMO CARTONI
011	F.C. PISTONE 2 AVANTI	10101	EV. LEVA APRI SCATOLA
012	FOT. FINE NASTRO	10102	EV. FERMA SCATOLE
013	F.C. FINE SCORTA CARTONI	10103	EV. PORTA VENTOSA 2
014	FOT. ROTURA NASTRO	10104	EV. CHIUDIF. LATERALE
015	FOT. LINEA PIENA	10105	EV. PISTONE 2 AVANTI
100	SELETORE CICLO MAN/AUT	10106	EV. PISTONE 2 INDIETRO
101	VUOTO VENTOSA 2	10107	EV. PISTONE 2 FRENO
103	SELETORE CONTASCATOLE	10108	EV. CHIUDIFALDA POSTERIORE
104	CONTATTO AUX-SELETORE TIMER	10109	EV. AVANZAMENTO CARTONI
		10110	ALLARMI
		10111	RELE' ALLARME
		10113	SPIA PASSA PRESSIONE

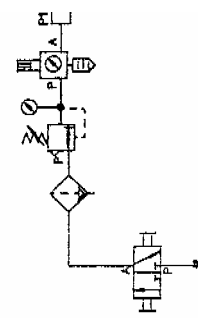
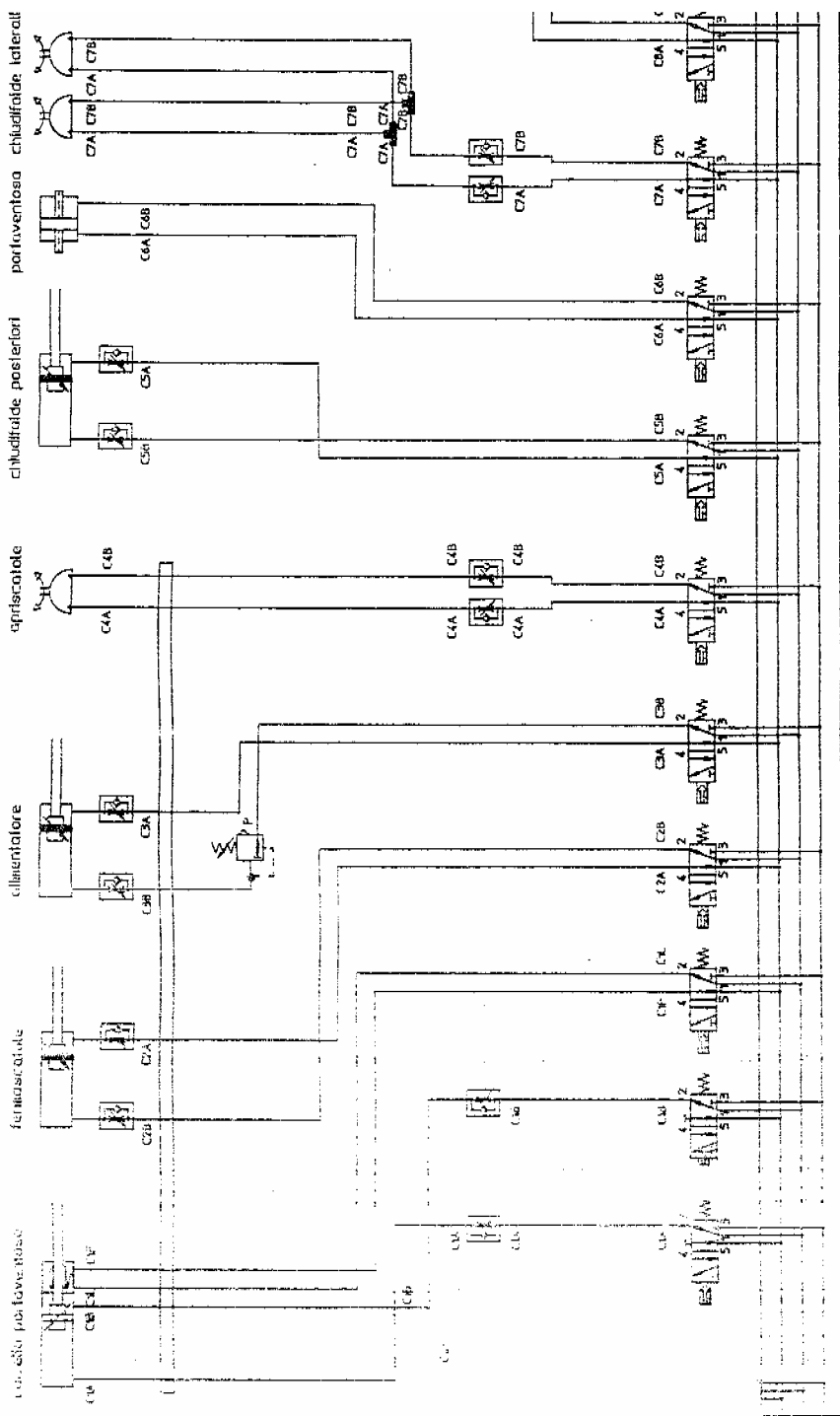


Tolleranze prima e lavorazione					
1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1000	1000



Posizione		Quantità		S	
PRODOTTO		GRUPPO		F	
siat					

A. Iannone di legge ci riserviamo la potestà di modificare in esecuzione o rendere in...



# siat®

## DECLARATION OF CONFORMITY

DECLARATION DE CONFORMITE  
DECLARACIÓN DE CONFORMIDAD  
KONFORMITÄTSERKLÄRUNG  
DICHIARAZIONE DI CONFORMITÀ  
OVEREENSTEMMINGSVERKLARING  
TILLVERKARDEKLARATION  
CERTIFICADO DE CONFORMIDADE



The undersigned / le fabricant / el que subscribe / der Unterzeichnete / la sottoscritta / Ondergetekende / Untertecknad / os que se subscrivem:

**S.I.A.T. SpA - Società Internazionale Applicazioni Tecniche**  
Via Giancarlo Puecher, 22 - 22078 TURATE (CO) - ITALY

hereby certifies that, when leaving our factory, the unit indicated below is in accordance with the harmonised EEC guidelines, EEC standards of safety and product-specific EEC standards.

declare que la machine designée ci-dessous est conforme aux dispositions de la directive "machines mûvées et aux législations nationales la transposant.

declara bajo su propia responsabilidad que la presente mercancía, objeto de la presente declaración, cumple con todas las exigencias de las normas de la Comunidad Europea, en lo que a normas técnicas, de homologación y de seguridad se refiere.

bestätigt, daß das nachfolgend bezeichnete Gerät in der von uns in Verkehr gebrachten Ausführung die Anforderungen der harmonisierten EG-Richtlinien, EG-Sicherheitsstandards und produktspezifischen EG-Standards erfüllt.

certifica che il prodotto qui sotto indicato, nel modello da noi commercializzato, è conforme alle direttive armonizzate CE nonché agli standard di sicurezza e agli standard relativi ai singoli prodotti.

bevestigt, dat het volgende genoemde apparaat in de door ons in de handel gebrachte uitvoering voldoen aan de eis van, en in overeenstemming zijn met de EG-richtlijnen, de EG-veiligheids-standaard en de voor het produkt specifieke EG-standaard.

försäkrar härmed att nedan nämnda produkter överensstämmer med EEC:s riktlinjer, EEC:s säkerhetsstandard och EEC:s produktspecifikation.

por este meio certificamos que ao saírem da fábrica, o aparelho abaixo mencionado cumprem tanto na execução com as exigências das directivas harmonizadas da CEE, com os parâmetros de segurança standard da CEE e, com os parâmetros específicos de produção por nós.

### Description of the unit

Description du produit

Descripción de la mercancía

Bezeichnung der Gerät

Descrizione del prodotto

Omschrijving van het apparaat/de apparaten

Produkt

Descrição do aparelho

### Model:

Modèle:

Modelo:

Modell:

Modello:

Model:

Modell:

Modelo:

### Type:

Type:

Tipo:

Typ:

Tipo:

Type:

Typ:

Tipo:

### Serial N.:

Numéro de matricule:

Número de matrícula:

Matrikel Nummer:

Numero di matricola:

Serie nummer:

Serie nummer:

Numero de matrícula:

### EEC guidelines:

directives européennes:

normas CE:

EG-Richtlinien:

direttive CE:

EG-richtlijnen:

EEC riktlinjer:

directrizes da CEE:

73/23 CEE

89/336 CEE

89/392 CEE

91/368 CEE

93/44 CEE

93/68 CEE

Pier Matteo Guella

Turate, 23 maggio 1996

*Pier Matteo Guella*  
Amministratore Delegato

# ELECTRIC SYSTEM TEST PROTOKOLL ELEKTROPRÜFUNGEN PROTOCOLLO CONTROLLI ELETTRICI

DIN VDE 0113 part 1 (En 60 204 part 1 - Par. 20.2/20.3/20.4)

Examiner - Prüfer - Esaminatore:		Date - Datum - Data:
Motors Serial Number - Kennen-Nummer von Motoren - Numero di matricola motori:	Upper or R/H - Ober/Recht - Sup.o DX	Lower or L/H - Unter/Link - Inf.o SX
Machine Model - Maschine Typ - Macchina modello:	Type - Typ - Tipo:	Serial Number - Matrikel - Matricola:

## 1 - PROTECTION CIRCUIT CONTINUITY TEST - DRUCHGEHENDE VERBINDUNG DES SCHUTZLEITERSYSTEMS - CONTROLLO CONTINUITÀ DEL CIRCUITO DI PROTEZIONE

1.1	Test conditions: Prüfbedingungen: Condizioni di prova:	- Minimum Current - Mindestprüfstrom - Corrente minima: - Check time - Prüfdauer - Periodo di prova: - Tension Source - PELV-Spannungsquelle - Fonte di tensione: - Instrument used - Gebrauchtes Gerät - Strumento utilizzato:	10A/50Hz 10 sec. 25V AC ELEKTROTECHN.LAB.KOMTAL mod.RD 28 K															
1.2	Maximum resistance between the PE terminal and a check point (power cord excluded): Resistenza massima tra morsetto PE ed un punto di controllo (Escluso cavo di collegamento): Größter Widerstand zwischen PE-Klemme und einem Prüfpunkt (Anschlußkabel ausgeschlossen):		..... Ω															
1.3	<table><tr><td>Minimum actual section of the protection conductor (mm²) Kleinster wirksamer Querschnitt des Schutzleiters (mm²) Sezione effettiva minima del conduttore di protezione (mm²)</td><td>1,5</td><td>2,5</td><td>4,0</td><td>≥6</td></tr><tr><td>Allowed resistance between PE terminal and the check point (W) Zulässiger Widerstand zwischen PE-Klemme und Prüfpunkt (W) Resistenza concessa tra morsetto PE e punto di controllo (W)</td><td>≤0,26</td><td>≤0,19</td><td>≤0,14</td><td>≤0,1</td></tr><tr><td>Tick the box pertaining to the machine under testing Das Feld der geprüften Maschine kreuzen Sbarrare la casella pertinente alla macchina collaudata</td><td></td><td></td><td></td><td></td></tr></table>			Minimum actual section of the protection conductor (mm²) Kleinster wirksamer Querschnitt des Schutzleiters (mm²) Sezione effettiva minima del conduttore di protezione (mm²)	1,5	2,5	4,0	≥6	Allowed resistance between PE terminal and the check point (W) Zulässiger Widerstand zwischen PE-Klemme und Prüfpunkt (W) Resistenza concessa tra morsetto PE e punto di controllo (W)	≤0,26	≤0,19	≤0,14	≤0,1	Tick the box pertaining to the machine under testing Das Feld der geprüften Maschine kreuzen Sbarrare la casella pertinente alla macchina collaudata				
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Tick the box pertaining to the machine under testing Das Feld der geprüften Maschine kreuzen Sbarrare la casella pertinente alla macchina collaudata																		
1.4	Is the test of the protection circuit passed? Schutzleiterprüfung bestanden? Controllo del circuito di protezione superato?		<input type="checkbox"/> YES - JA - SÌ <input type="checkbox"/> NO - NEIN - NO															

## 2 - INSULATION RESISTANCE TEST - PRÜFUNG DES ISOLATIONSWIDERSTANDES - CONTROLLO RESISTENZA DI ISOLAMENTO

2.1	Test conditions: Prüfbedingungen: Condizioni di prova:	Instrument used - Gebrauchtes Gerät - Strumento utilizzato: Direct tension - Prüfgleichspannung - Tensione continua:	ELEKTROTECHN.LAB.KOMTAL mod.RD 28 K 500 V
2.2	Insulation resistance measured between the power circuit conductors and the protection circuit: Kleinster Isolationswiderstand zwischen den Leitern der Leistungskreise und dem Schutzleitersystem: Resistenza di isolamento misurata tra i conduttori del circuito di potenza e il circuito di protezione:		..... MΩ
2.3	Allowed insulation resistance - Zulässiger Isolationswiderstand - Resistenza isolamento consentita:		≥ 1MΩ
2.4	Is the insulation test passed? Isolationsprüfung bestanden? Controllo isolamento superato?		<input type="checkbox"/> YES - JA - SÌ <input type="checkbox"/> NO - NEIN - NO

## 3 - INSULATION TENSION TEST - SPANNUNGSPRÜFUNG - CONTROLLO TENSIONE DI ISOLAMENTO

3.1	Test conditions: Prüfbedingungen: Condizioni di prova:	- Minimum power of the transformer - Mindestbemessungsleistung des Trafos - Potenza minima trasformatore: - Check time - Prüfdauer - Durata controllo: - Check tension frequency - Frequenz der Prüfspannung - Frequenza tensione di controllo: - Instrument used - Gebrauchtes Gerät - Strumento utilizzato: - Check tension - Prüfspannung - Tensione di prova:	500 VA 1 sec. - 1Sekunden 50 Hz PESATORI mod. PAI "P" 1000V
3.2	Giving the check tension between the conductors of all circuits (except circuits PELV; 24V AC / 60 V DC) and the protection circuit, no voltage drops must happen.  Prüfspannung zwischen den Leitern aller Stromkreise (außer PELV - Kreise; 24V AC / 60 V DC) und dem Schutzleitersystem standgehalten  Applicando la tensione di prova tra i conduttori di tutti i circuiti (esclusi circuiti PELV; 24V AC / 60 V DC), e il circuito di protezione, non si devono verificare cali di tensione.		Test passed? Gesamtprüfung bestanden? Prova superata?  <input type="checkbox"/> YES - JA - SÌ <input type="checkbox"/> NO - NEIN - NO