FIELDKING

Square Baler

High-Density Pick-up Baler

➤ Operator Manual ➤ Service Manual ➤ Part Catalogue

CONGRATULATIONS!

You have invested in one of the best implements of its type in the market today.

The care you give your “FIELDKING” implement will greatly determine your satisfaction with its performance and its service life. A careful study of this manual will give you a thorough understanding of your new implement before operating.

If your manual is lost or destroyed, “FIELDKING” will be glad to provide you a new copy. Visit to nearest dealership & get a copy. Most of our manuals can also be downloaded from our website at www.fieldking.com.

As an authorized “FIELDKING” dealer, we stock genuine “FIELDKING” parts which are manufactured with the same precision and skill as our original equipment. Our trained service persons are well informed on methods required to service “FIELDKING” equipments and are ready to help you.

Should you require additional information or assistance, please contact us.

YOUR AUTHORIZED

FIELDKING DEALER

BECAUSE “FIELDKING” MAINTAINS AN ONGOING PROGRAMME OF PRODUCT IMPROVEMENT, WE RESERVE THE RIGHT TO MAKE IMPROVEMENTS IN DESIGN OR CHANGE IN SPECIFICATION WITHOUT INCURRING ANY OBLIGATION TO INSTALL THEM ON UNITS PREVIOUSLY SOLD. BECAUSE OF THE POSSIBILITY THAT SOME PHOTOGRAPHS IN THIS MANUAL WERE TAKEN OF PROTOTYPE MODELS, PRODUCTION MODELS MAY VARY IN SOME DETAIL. IN ADDITION, SOME PHOTOGRAPHS MAY SHOW SHIELDS REMOVED FOR THE PURPOSE OF CLARITY. NEVER OPERATE THIS IMPLEMENT WITHOUT ALL SHIELDS IN PLACE.

TO THE PURCHASER

This manual contains valuable information about your new “FIELDKING” Square Baler. It has been carefully prepared to give you helpful suggestions for operating, adjusting, servicing and ordering spare parts.

Keep this manual in a convenient place for quick and easy reference. Study it carefully. You have purchased a dependable and sturdy Square Baler but only by proper care and operation you can expect to receive the service and long life designed and built into it.

Sometime in the future your Square Baler may need new parts to replace which are worn out or broken. If so, go to your dealer and provide him equipment’s detail like model and part number.

CUSTOMER INFORMATION

Name _____

Purchased From _____

Date of Purchase _____

Model No. _____

Serial No. _____

PURCHASER / OPERATOR'S RESPONSIBILITY

1. Read and understand the information contained in this manual.

2. Operate, lubricate, assemble and maintain the equipment in accordance with all instructions and safety procedures in this manual.

3. Inspect the equipment and replace or repair any parts that are damaged or worn out which under continued operation would cause damage, wear to other parts, or cause a safety hazard.

4. Return the equipment or parts to the authorized "FIELDKING" dealer, from where it was purchased, for service or replacement of defective parts that are covered by warranty. (The "FIELDKING" Factory may inspect equipment or parts before warranty claims are honored.)

5. All costs incurred by the dealer for traveling to or transporting the equipment for warranty inspection and claims will be borne by the customer.

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1.Getting to know your machine

1.1 Working Method of the High-density Pick-up Baler

When in use, the swathed up crop is collected by the pick-up (a) and transported to the cross auger (b) and to the feeder (c), where it is pre-compressed by the auger and the feeder tines, and transported to the press chamber. The piston(d) with its knife cuts the crop at the counter-knife (e), and presses it towards the rear in the press chamber, forming cubic bales.

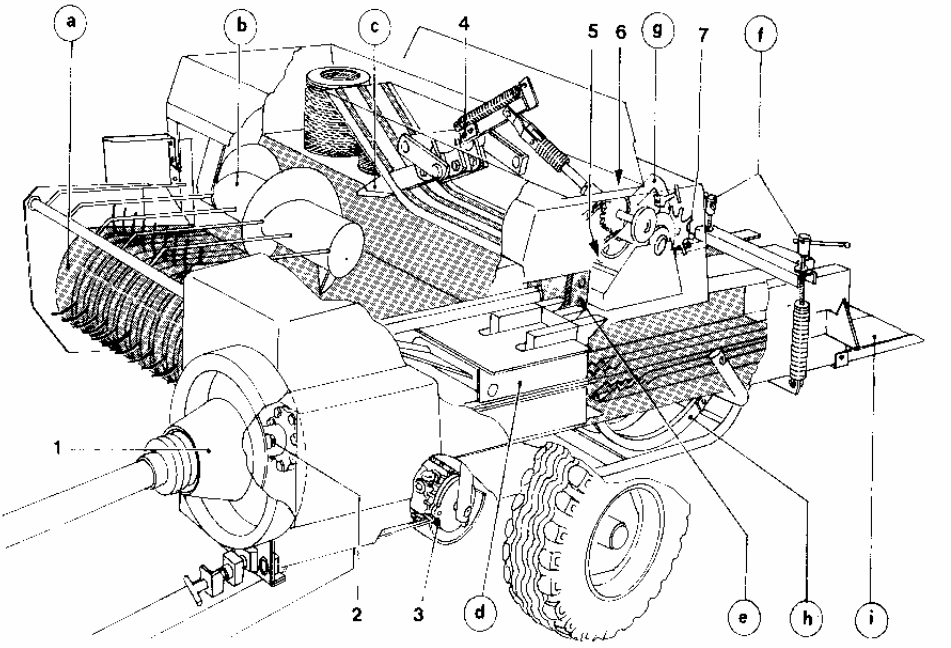
The pressing power of bales can be adjusted by the adjusting spindles (f), and the length of bales is continuously variable at the stop of the switch bar (g).

As soon as the pre-selected bale length is obtained, the binding operation takes place:

The binding needles (h), conduct the baler twine round the bales to the binding apparatus by which the twine is knotted. The finished bale is pushed by the following one out of the press chamber and deposited in the field via the depositing plate (i) or a chute (extra equipment) on to an attached trailer.

Safeties

1. Slip clutch on the universal-joint drive shaft
2. Shear bolt on the main drive
3. Slip clutch and freewheeling on the pick-up drive
4. Shear bolt on the Feeder
5. Shear bolt on needle pull bar (not to be seen in the figure) M6x30-8.8, DIN 933 (threaded up to head)
6. Double acting binder shaft clutch (not to be seen in the figure)
7. Safety lock, actuated at threading up twine


a
b
c
4
5
6
g
7
f
1
2
3
d
e
h
i

1.2 Working Method of the Twine Knotting Apparatus

Whenever conversant with the functioning method of the twine knotter the user will also understand the design of the single parts, enabling him to carry out quickly necessary adjustments. The following figures will show you the functions of the knotting apparatus for one hank during the various steps of forming and completing a knot.

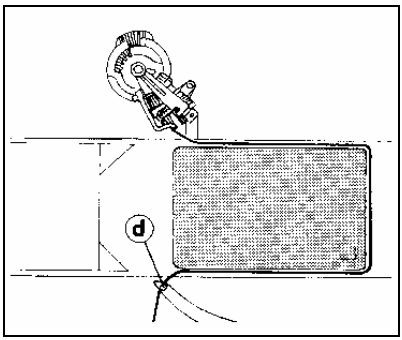


Fig. 1

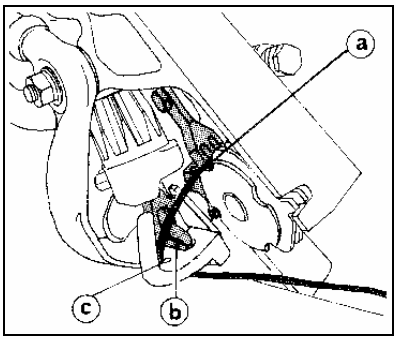


Fig. 2

Figures 1 and 2

The thread held fast on the twine holder (a), and conducted over the tongue of the knotter hook (b) is diverted by the knife lever (c), surrounding then the top and rear and the bottom side of the bale, passing through the needle eye (d), and various twine guides and a twine tensioner to the twine ball.

Figure 3

As soon as the bale has reached its adjusted length, the knotting process is initiated. The press needle moves upward, putting the twine withdrawn from the twine ball box round the front of the compressed bale and then into a recess of the driving disc (e) of the knotting apparatus.

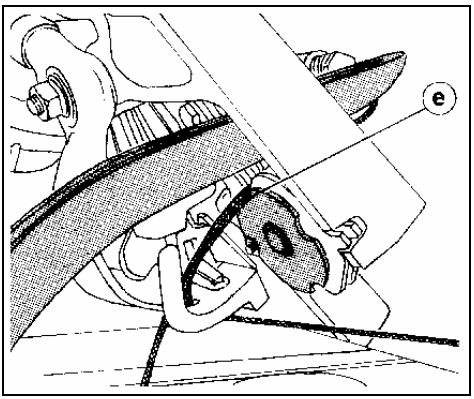


Fig. 3

Figure 4

Then the twine lock (f), carries out a swinging motion towards the front, pulling the tensioned twine end (g), from the inside of the press needle and pressing it against the rotating knotter hook over which is already positioned the twine end held fast on the twine holder, coming off to the bale. During a full turn the knotter hook forms two loops from the two twine ends.

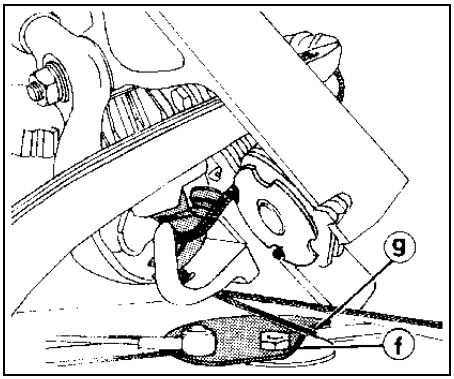


Fig.4

Figure 5

Shortly before the hook has reached again its neutral position, its tongue swings upwards, forming a mouth which accepts the two twine ends held fast in the recess of the driving disc.

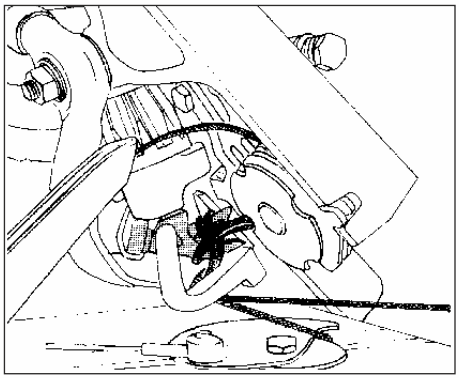


Fig.5

Figure 6

When the knotter hook has reached again its starting point, the mouth of the knotter hook will be closed, holding the accepted double twine end which is now cut by the twine cutting knife (h), of the knife lever which carries out a forward movement.

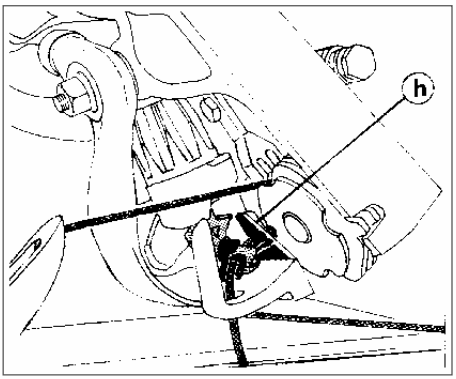


Fig.6

At progressive movement of the knife lever a comb (I), connected with the knife lever pushes the loops surrounding the knotter hook over the cut off double twine end still held in the knotter hook mouth.

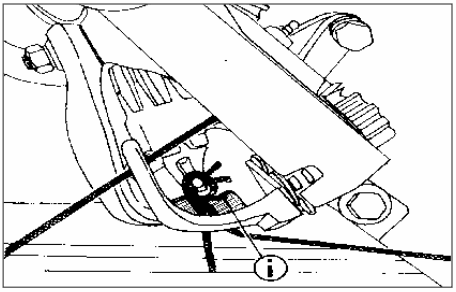


Fig.7

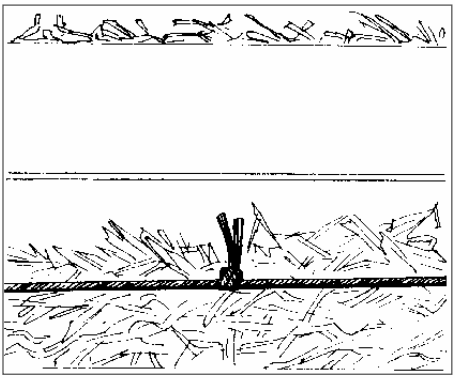


Fig.8

Figure 8

By this means the twine end is drawn through the loops which surround the knotter hook. After this operation a loose knot falls off from the knotter hook. As soon as the bale is pushed further to the exit of the bale compression chamber, the twine surrounding the bale will be stretched, tightening the knot. After stripping off the knot the knife lever returns to its neutral position, and so the press needle.

1.3 Check the Extent of Supply

When taking over your High-density Pick-up Baler please check if damage has occurred to the machine in transport. Also check if all parts belonging to the extent of supply, have been delivered.

Serial Equipment

* Bale depositing plate
* 2 wheel chocks
* Universal-joint drive shaft
* Pick-up support wheel

Extra and Additional Equipment

* Loading chute
* Trailer coupling device
* Pick-up baffle plate
* with pneumatic tyre
* Tyres:

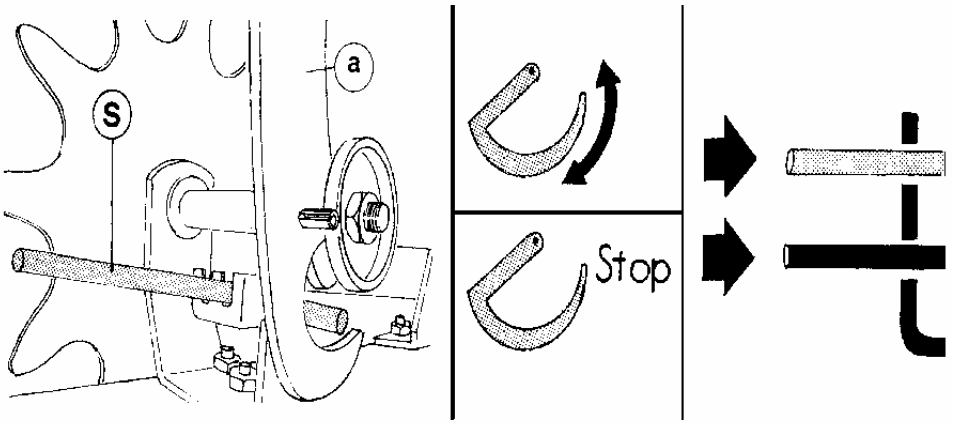
R. H.: 7.00-12 Impl., 6 PR

L. H.:10.0/75-15.3 Impl., 8 PR

1.4 For Your Safety

The main points are as follows:

- In addition to the tips as given in this Instruction Manual the safety rules and regulations for the prevention of accidents as prescribed by law yet different for the various countries, have to be complied with.
- The High-density Pick-up Baler has been tested by Agricultural Professional Association for safety against accidents and tested safety. But this does not exclude accidents as a result of improper handling.
- Never start operations with your High-density Pick-up Baler without guards. Secure the protection tube of the universal-joint drive shaft against rotation.
- When turning the drawbar from its transport position to that one of working or vice versa, never stand in the swinging area of the drawbar, to avoid bruising.
- Important! Clutch and brake linings may contain asbestos. Please take notice of specification of spare parts.
- Getting a lift on the High-density Pick-up Baler is not permissible.
- Before carrying out some or other job on the machine, stop the engine.
- Before threading up the twine, it is absolutely necessary to set the safety lever (S) on to „stop".
- Never push safety lock (S) under the hook of the switch bar (a), as otherwise the binding operation would be no longer stopped.
- After approx.10 working hours
  - Retighten the wheel nuts
  - Check the fixing bolts of the hitch eye and, whenever necessary, retighten.



1.5 Road Transfer

We point out to the motor vehicle traffic regulations of your country.

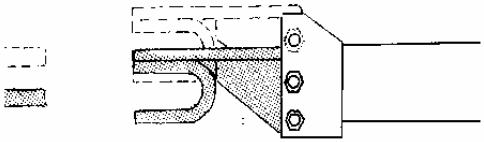
2. Before Setting the Machine to Work

2.1 Matching the High-density Pick-up Baler to the Tractor Equipment Necessary General:

The High-density Pick-up Baler must be drive by a P.T.O. speed of 540 rpm only.

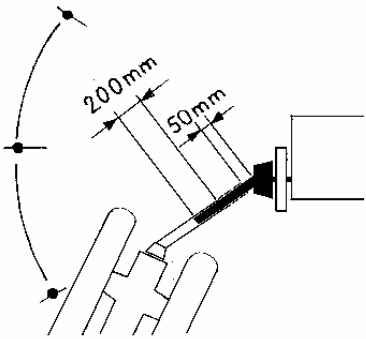
Matching to hitching height

Attach Baler to the tractor whenever possible horizontal. To obtain this position, adjust height by the hitch eye.



Important!

Check fixing bolts of the hitch eye repeatedly, and retighten when necessary (torque: 210 Nm).



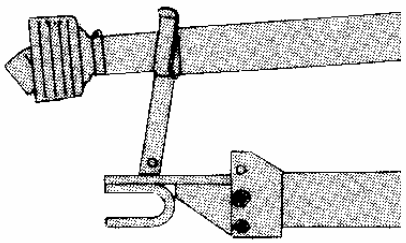
Matching the length of drive shaft

For the various positions of P.T.O. shafts on tractors, length adjustment of the drive shaft could be necessary.

To obtain the correct length, proceed as follows:

* Attach High-density Pick-up Baler to the tractor.
* Separate the drive shaft sections, and locate same one underneath the other.
* Check whether in all travelling positions - the covering is at least 200 mm, and- the drive shaft is blocked (minimum distance: 50 mm).
* If the two sliding and protecting tubes have to be shortened, cut them off uniformly.
* Debur the tube ends, remove splinters, and grease the sliding surfaces.

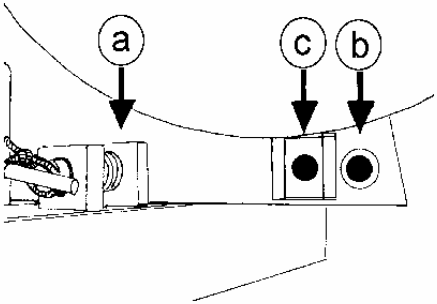
Put loose drive shaft end on hinged support when machine is stationary.

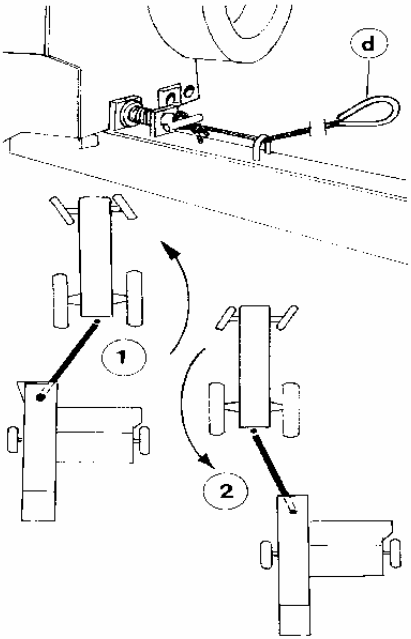


2.2 Controls and Operation of Controls

Drawbar Adjustment

The drawbar has been equipped with three lock-in positions. When adjusting to working position, set to inner hole ©, to protect the drive shaft. In this case excessive angling of universal joints is avoided, and less noise will take place at negotiating narrow bends. To maintain a good swinging motion for the drawbar, grease the drawbar guide.





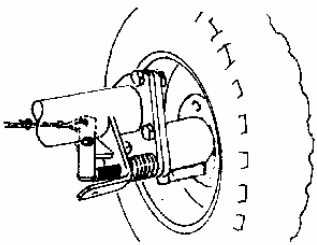
Adjustment from transport onto working position (1):

1. pull by rope (d) from tractor cab drawbar locking pin
2. front tractor wheels set at the max. left position and then advance tractor (machine should swings out to its working position)
3. latch the drawbar locking pin in hole

Adjustment from working onto transport position (2):

1. pull by rope (d) from tractor cab drawbar locking pin
2. front tractor wheels set at the max. right position and then reverse tractor (machine should swings in to its transport position)
3. latch the drawbar locking pin in hole

Locking of right wheel easier this operations.



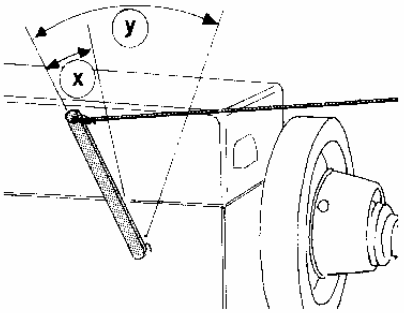
2.3 Pick-up Adjustment

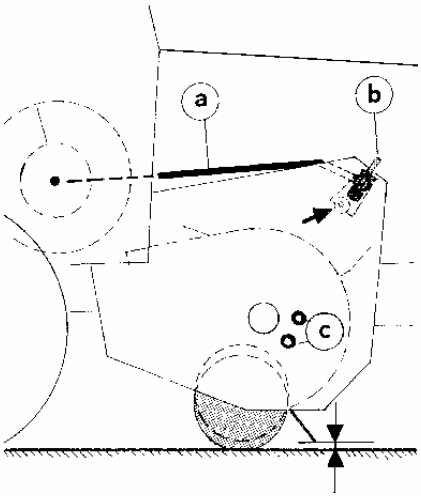
Lifting the pick-up:

Actuate (y) lifting lever several times by the pull-rope from the tractor driver's seat.

Lowering the pick-up:

Actuate (x) lifting lever several times yet shortly by the pull-rope from the tractor driver's seat.





2.4 Feed Rake Adjustment

The feed rake (a) above the pick-up proportions the crop and transports it to the bottom of the transport auger.

The tine ends in their highest position, should show towards the centre of the transport auger!

For the adjustment at the eccentric, see arrow.

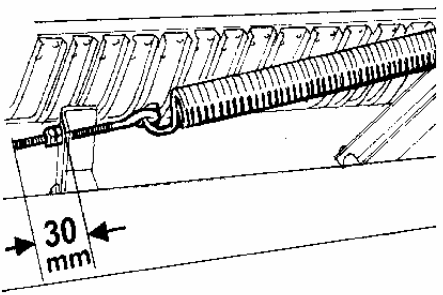
To facilitate the elimination of troubles taking place in the feeding elements,

- withdraw safety stirrup (b)
- push feed rake (a) towards the inside, and
- swing towards the front.

2.5 Pick-up Wheel Adjustment

While working, the pick-up tines should not touch the ground, to avoid soiling the crop. The pick-up wheel has been adjusted accordingly at works.

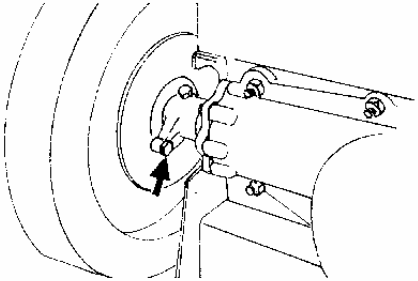
Adjustment of distances between tines is possible by adjustment of the pick-up wheel (for this scope undo the locking screws (c)). The pick-up ground pressure can be adjusted by the relieving spring. Standard adjustment is 30 mm.



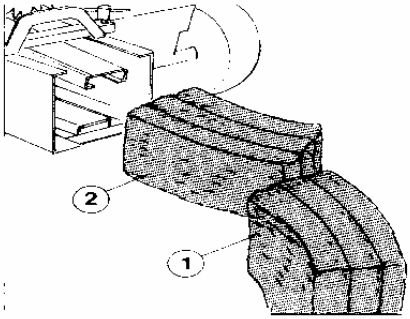
2.6 Flywheel Clutch

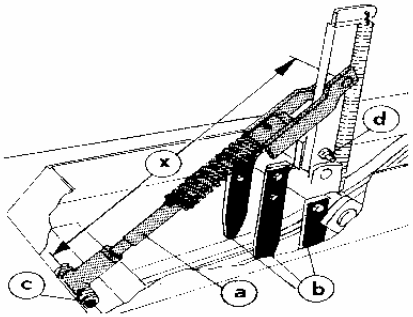
To avoid damage by suddenly blocked machine, a safety has been built-in between the main drive and the flywheel.

Shear bolt M 10x65-8.8, DIN 931 (screw with shank). Please use shear bolt of this quality only. Tighten shear bolt firmly.



2.7 Feeder Adjustment





To obtain straight bales under various harvesting conditions,

- the control bar (a), can be continuously adjusted
- the feeder tines (b), can be fitted in 4 various positions.

1. In case of bales curved towards the left in travelling sense of the machine:

· extend the control bar (a), or

· dislocate the tines (b) towards the bottom.

2. In case of bales curved towards the right in travelling sense of the machine:

· contract the control bar (a), or

· dislocate tines (b), towards the top.

After adjusting the distance (x)

· secure pin (c), against dropping

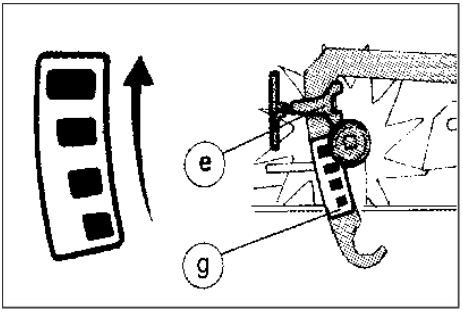
· actuate the machine by hand, and check whether there is sufficient distance between the piston points and the feeder tines.

Standard distances (x) between pivot point centres is 580 mm

The feeder tines are protected by safeties.

Shear bolt M 10x65 DIN 933 (threaded up to head), quality 8.8 (8G).When bolt (d) is cut off, the feeder tines swing up towards the top by spring motion. Eliminate the obstruction, replace screw, tighten nut firmly, and secure with counternut.

2.8 Bale Length Adjustment



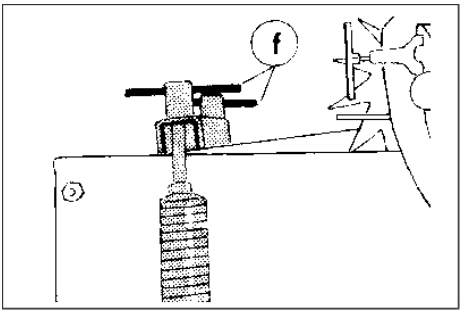
By the advance of bale the straw metering wheel rotates, moving the switch bar towards the top. In top position, the switch bar engages in the recess and operates the binding process. By operating the stop (e), the bale length is steplessly adjustable from approx. 0.3- 1.3 metres:

* By adjustment of stop towards the top: larger bales.

* By adjustment of stop towards the bottom: smaller bales.

After adjustment retighten handled nut firmly, to obtain a onstant length of bales.

2.9 Bale Density Adjustment



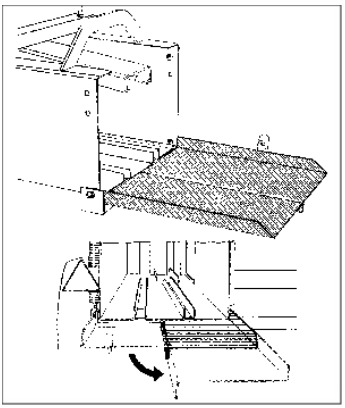
The greater the frictional resistance in the compression chamber, the more the crop will be compressed. Therefore, the density of bales can be steplessly modified by adjustment of the compression spindles(f).

Before starting the baling operation after longer pauses, loosen the compression spindles for the first bales, and then readjust.

If during the baling operation the humidity degree of the crop changes, readjust the compression spindles.

Excessive bale density may cause troubles.

2.10 Bale Depositing Plate



This plate has been provided for depositing the bales to the field.

By this method highest output is obtainable, as not any performance limiting factors can take place.

To obtain a satisfactorily broad lane when working in inclines or with narrow swaths, the bale depositing plate has been designed as a sectional type, enabling the bales to be tilted laterally.

2.11 Preparation for Use

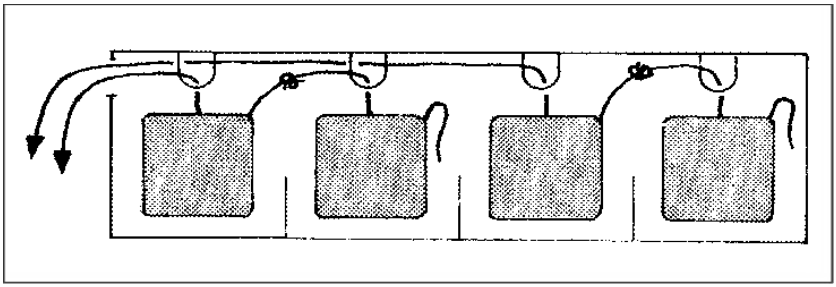
Inserting Twine Balls

Use only binding twine of good quality:

- sisal twine - with a run length of 150-220 m/kg
- synthetic twine - with a run length of approx. 320-400 m/kg.

The twine box of has been designed for 4 twine balls.

The twine balls can be tied together, to avoid frequent threading.



Important: Knots should be as small as possible, to ensure good passage of twine through the twine guides.

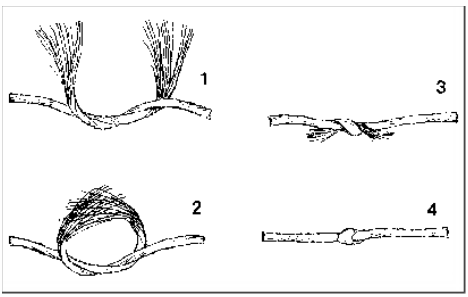


Fig.a

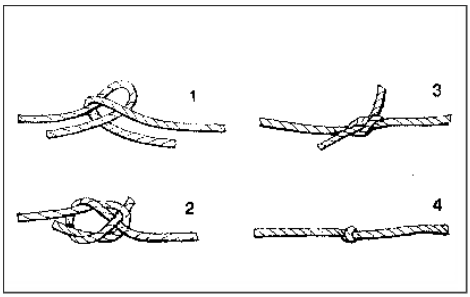


Fig.b

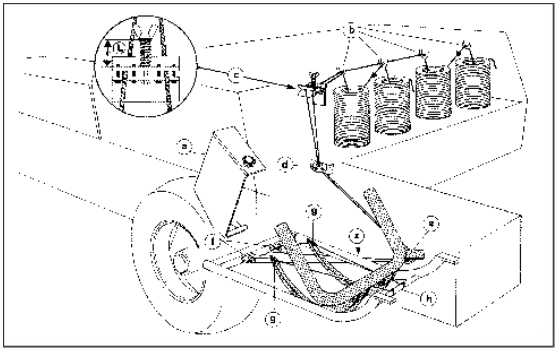
a) Knotting, using sisal twine

1. Form a simple knot, fanning out ends
2. Intertwine fanned ends, and coil up with fingers.
3. Draw knot firmly together.
4. Coil up projecting ends between your hands.

b) Knotting, using synthetic twine

1. Form an open loop on both ends, and fit into each other.
2. Draw right loop end through eye of the left loop.
3. Draw knot firmly together.
4. Cut off projecting ends.

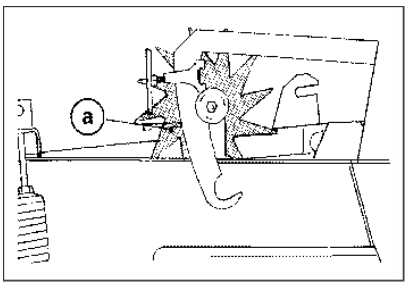
2.12 Threading up the Twine



When threading up the twine, proceeding as follows:

1. Fold up needle guard (a).
2. Pass twine ends through as follows:
   * Twine guide stirrups (b)
   * Twine brake ©. Important: Twine ends should pass between the guide pins!
   * Eye (d) on the outside of the twine box.
   * Eye (e). Important: Pass both twine ends through this eye, and then at (x) under the needle guard.
   * Direction eyes (f)
   * Needle points (g)
   * Needle protection yoke (h), to which twine ends have to be fastened.
3. Shut the needle guard (a).
4. Adjust spring length (L) of the twine brake:
   * for sisal twine: approx. 32-35 mm
   * for synthetic twine: approx. 40 mm

1. Actuate the binding mechanism by operating the straw metering wheel (a).
2. Turn flywheel by hand in the sense of the arrow (see sticker on the flywheel) till binding needles will have introduced the twine into the knotter, where twine is clamped fast and cut off.
3. Swing binding apparatuses towards the top (See fig. G), and check whether knotter hooks are free of twine residuals.
4. Undo twine ends on the needle protecting yoke to which same where previously fastened.



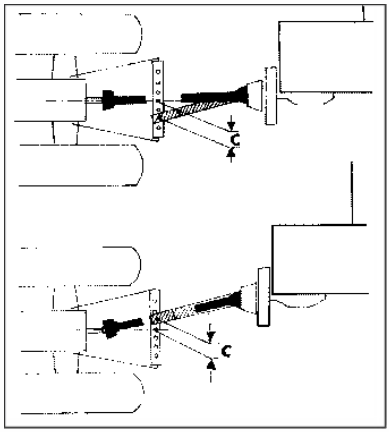
Now, the binding mechanism is ready for use.

2.13 Function Test

When threaded up, it is recommended to carry out a function test.

1. Attach the High-density Pick-up Baler to the tractor.
2. Clutch in P.T.O. shaft at a reduced speed.
3. At cautiously negotiating bends towards the right and left, check if universal-joint drive shaft is freely movable.
4. Only when High-density Pick-up Baler is perfectly functioning, push up slowly to a higher speed.

3.1 Attaching Baler to Tractor and Transport



* Attach High-density Pick-up Baler to the horizontal or longitudinal tow bar of the tractor.
* When attaching Baler to the horizontal tow bar, please observe the following:

  -Immobilise horizontal tow bar against lateral and vertical movement.

  -When attaching Baler, make sure that excessive angling of the universal-joint drive shaft is avoided while machine is working in the field

  -As lateral offset ©, in relation to the P.T.O. shaft stub the following distances are permissible depending on the tractor and the track width:

right-hand side: 80 mm

left-hand side: 240 mm

* Attach universal-joint drive shaft to the tractor P.T.O., immobilise the protection tube using the provided chain, and fold back the drive shaft support.
* Attach electrical connections.
* Lift the prop stand on the drawbar, using the crank.
* Swing drawbar onto its transport position.
* Lift pick-up for road travel.

3.2 Setting High-density Pick-up Baler to Work has everything been prepared for baling?

* Has the drive shaft been secured by the provided chain?
* Are knotter hooks free of twine residuals?
* Are binding needles in their neutral position outside the compression chamber, and is transport safety of the binding needles locked?

* **Warning!** Never charge Baler with crop while needles are inside the compression chamber. To return needles to their initial position, turn flywheel by hand towards the rear.
* Has Baler been greased according to the Greasing Chart?
* Is the tyre inflation pressure correct?.
* Have all guards been mounted?
* Is safety lever in „on", position?

.3 Important Tips for the First Use

Please take into account that in first use and reuse of Balers already employed, paint and possible rust perform a strong braking effect.

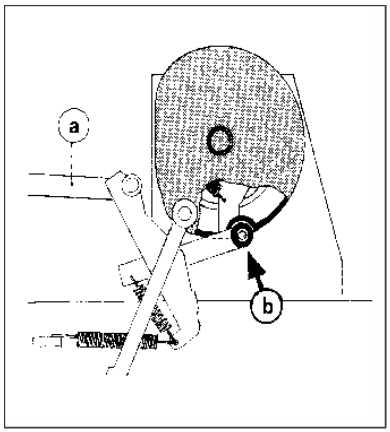
To eliminate these "braking factors", we would advise you as follows:

* undo compression spindles completely for the first bales,
* carry out several knotting operations with spindles in released position,
* use bale chute (extra equipment) only when previous running in operations have been performed.

  When first bales have been finished check if transport safety device (b) is locked.

  Carry out this check with stopped engine only!

  If the transport safety device cannot be locked, readjust the binding shaft brake.



3.4 General Tips for the First Use

* Clutch-in High-density Pick-up Baler slowly, and push up to full speed, being 540 rpm before collecting the first swath!
* The travelling speed depends on the density of swaths. Baling is recommended with medium-sized swaths at an uninterrupted speed.
* If the engine speed drops by overcharge,

  - stop travelling operation,

  - yet leave tractor P.T.O. carrying on its rotation, and

  - start travelling operation again when Baler has reached its full speed.

  - check slip clutch of the universal-joint drive shaft from time to time, and lift slip clutch whenever necessary.

* When negotiating narrow bends, disengage the tractor P.T.O., to prevent overcharge of the universal-joint drive shaft.
* If drive shaft slip clutch responds frequently, slow down travelling speed, or slacken the compression spindles.
* When baling short and damp crops, -stop engine repeatedly, and clean needle passage slots in the piston, to avoid needle damage.

3.5 Elimination of obstructions

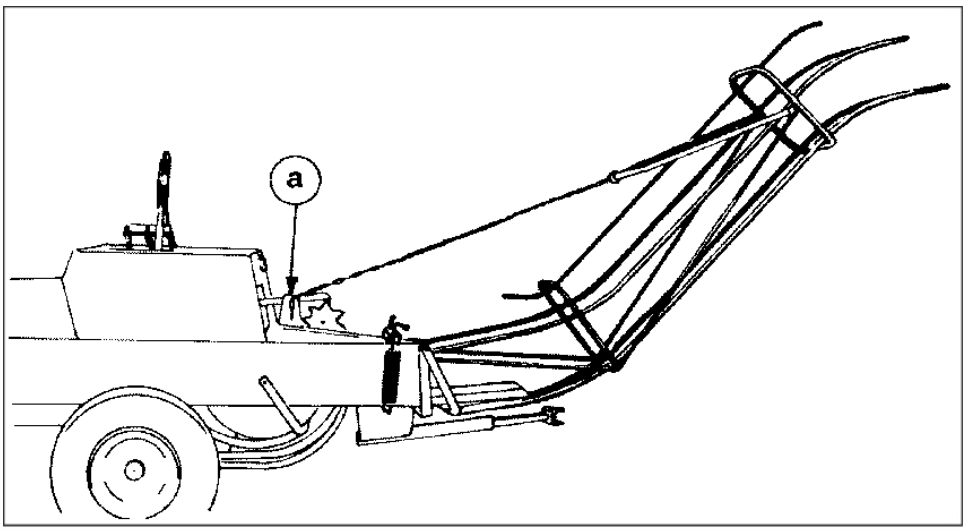
If the Baler is stopped by excessive feed, e. g. when on the flywheel the shear bolt is cut off:

* Stop the tractor P.T.O., stop the engine.
* Turn flywheel back by hand, to move piston backwards.
* Remove the crop: Feed auger and feeder channel must also be free.
* Check if binding needles are in neutral position.

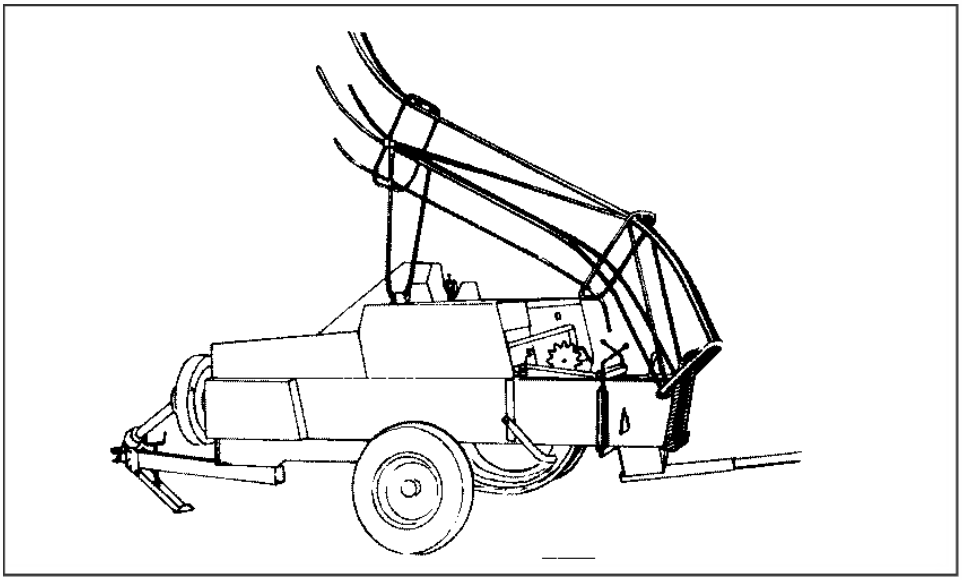
Warning! Never operate Baler nor force crop through the channel when needles are inside the compression chamber.

4. Additional Equipment

4.1 Loading Chute



By means of the loading chute, bales can be directly pushed up onto a trailer. To attach trailer, use a special coupling device.



Fitment

Fix chute on channel movably, using fixing clips. Fix hook (a), on the press rail, and attach chain in a way that the bale discharge height is approx. 2.30-2.80 m.

Warning! Chute must be suspended freely movable on the chain, to avoid damage to the chute and trailer.

Baling with chute

Fold bale depositing plate down, to close the gap between the channel and the loading chute. Compensate increased density of bales (produced by back pressure of bales) by slackening the compression spindles.

Baling without loading chute

For depositing bales directly to the field, swing chute into transport position towards the front, and fold down the bale depositing plate.

Advice: To fold bale depositing plate up or down, swing support stirrup out of its transport position, and let chute down completely towards the front.

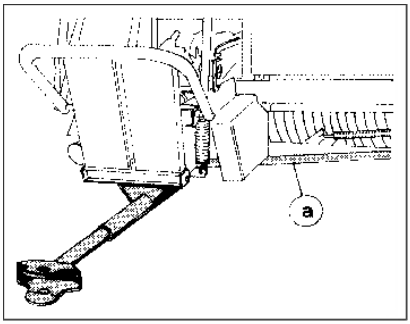
Transport

Swing chute towards the front, locking it by the support stirrup in the provided bracket. Attach chain to lateral hooks of the left support stirrup. Fold bale depositing plate up.

4.2 Electrical Lighting

This equipment is available with fitting parts.

4.3 Trailer Coupling



This device which can be fixed with bolts to the bottom of the channel, has been equipped with a telescopic tube obliquely extending towards the top, and thus adjustable for all standard trailers.

When fitting the trailer coupling, fit-in addition- a support (a).

Never attach two-wheel trailer to the Baler.

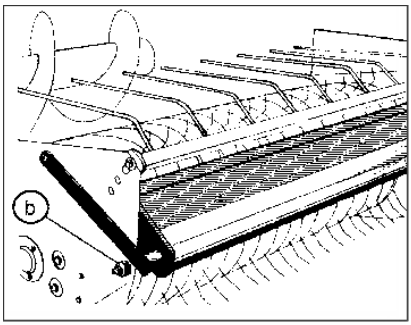
4.4 Extra Tyres

For difficult ground conditions tyres are available:

right-hand side: 7.00-12 Impl., 6 PR

left-hand side: 10.0/75-15.3 Impl., 8 PR

4.5 Baffle Plate



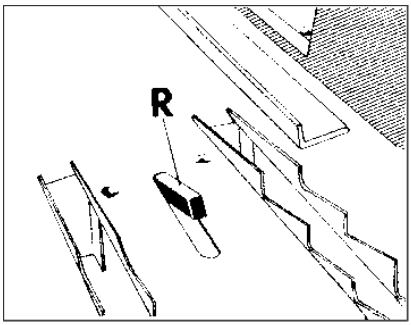
To obtain a clean collection of short crops without losses, the use of the baffle plate can be recommended.

This plate has to be movably fitted using two bolts, underneath the feed rake so that it automatically matches the flow of crop.

As to subsequent fitment of the baffle plate, use rubber buffers (b).

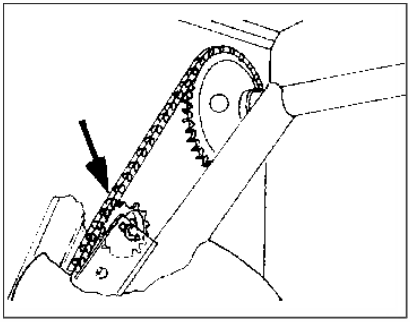
5.Maintenance

5.1Tips for Setting and Maintenance



Crop Retainers

The crop retainers (R) are forced by springs from the top and from the bottom into the compression chamber, and must be always movable to retain the crop after the piston stroke.



Feed Auger

The feed auger is automatically adapted to all crop conditions and quantities.

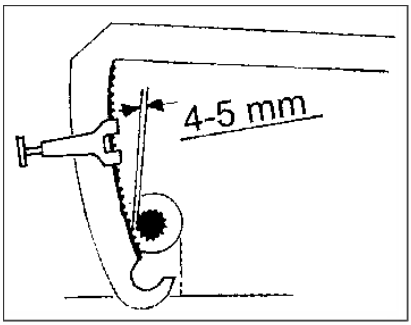
Tensioning the feed auger drive chain is by adjustment of the chain sprocket (see arrow).

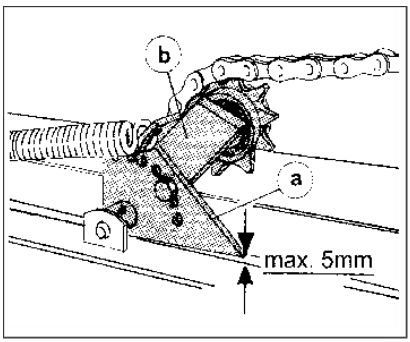
Switch Bar

The distance between the friction wheel and the switch bar should be 4-5 mm whenever cam roller is positioned at the highest point of the switch disc on the binding shaft clutch.

When adjusting, the straw metering wheel support can be displaced a little after slackening the two bolts on the compression chamber.

The hex. nut on the axle of the straw metering wheel is equipped with a left-hand thread.





Main Drive Chain

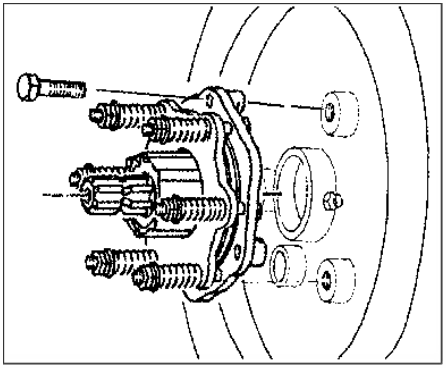
Constant tension of the main drive chain is provided by the spring-loaded tension sprocket.

Fit return motion safety (a), to the tension sprocket arm (b), in a way that this latter has only little free motion towards the rear. Owing to chain elongation during the first use of the machine, the return motion safety has to be readjusted from time to time, to exclude chain skipping by possible motion of the machine.

Slip Clutch

This clutch has been adjusted to the torque: 600 Nm (60 kgm).

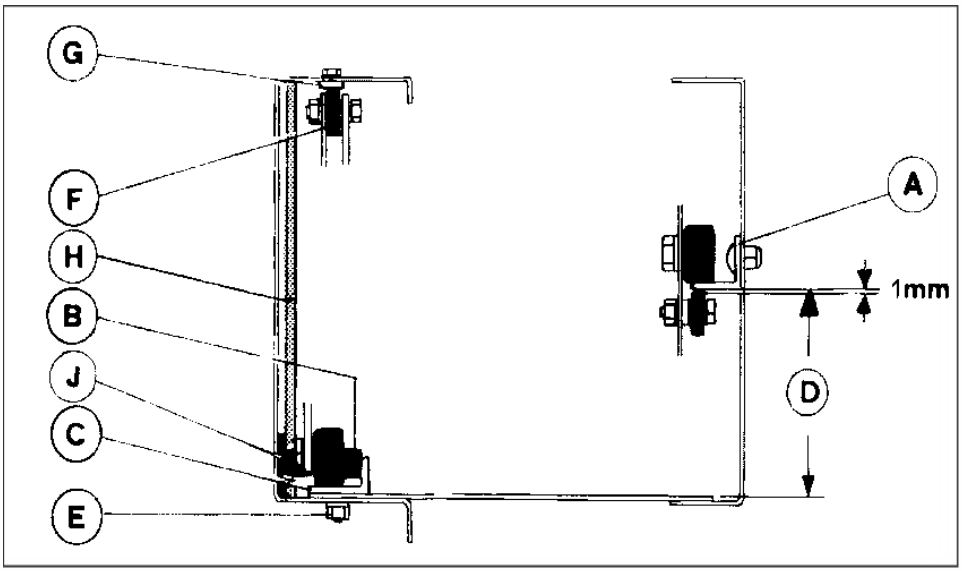
After prolonged standstill of the machine, e. g. after wintering, undo the 6 adjusting screws, operate the clutch shortly, and retighten adjusting screws to their former positions.



Fitment of clutch

Mount clutch on flywheel, using 3 hex. head screws. Torque: 90 Nm +/- 10%.

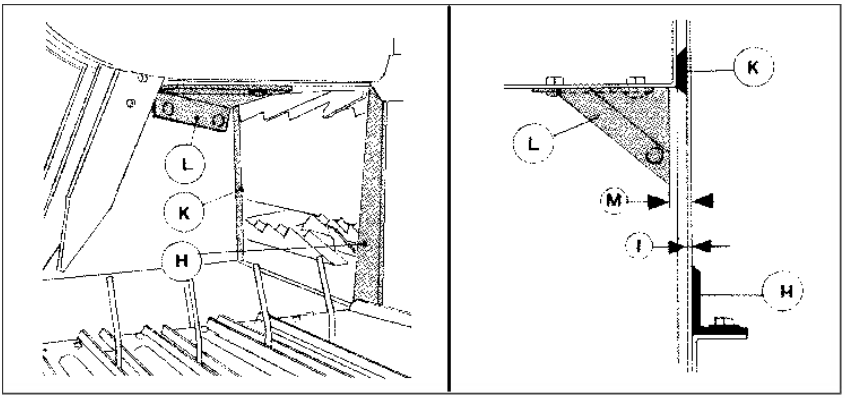
5.2 Setting Press Piston and Knives



Press piston

* Slacken bolts on guide rail (c).
* Fix (using bolts) guide rail (A), in parallel to the compression chamber bottom at a distance (D), of 176 mm.
* Move press piston with piston knife (H), slackened to front dead centre position and adjust guide rail (C), laterally in parallel in a way that rollers, (B) sit close without tension at the guide rail (C), and at the knife guide rail (J).

* Tighten front bolts (E).
* Then move press piston to rear dead centre position and adjust in this position, too, the guide rail (c).
* Tighten all bolts (E).
* Adjust front top roller (F), without clearance, in oblique slot to top running rail (G).
* Between the guide rail (A), and the bottom roller, adjust to a clearance of 1 mm.



Piston and channel knives

Fix (using bolts) piston knife (H), in parallel to the channel knife (K).

The cutting gap (I), must be 0.5-1.0 mm, only thus the power requirement will be reduced.

Knives must always be perfectly sharpened!

The channel knife(K), is a double sided type and can be reversed.

Guide plate

This plate (L), has to be adjusted to a safety distance (M), of 3-5 mm in relation to the piston.

5.3Adjustment of Binding Needles

Adjustment of Binding Needles in Relation to Binding Apparatus

Figure 1: The binding needles should be so adjusted that same are lightly grazing on the knotter frame (x), passing over the knotter drive disc at a distance of about 6 mm.

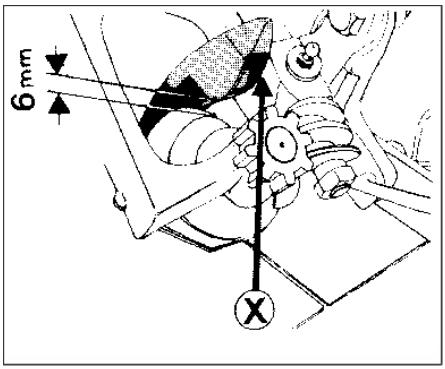


Fig.1

Figure 2: Adjustment on Balers equipped with twine binding mechanism.

The clearance between needles and the drive disc is increased by slackening the screw(A), and tightening the screw (C) and reduced by slackening the screw (B), and tightening the screw (A).

As to the adjustment of binding needles on Balers equipped with twine binding mechanism (see figure 2), slacken screws(C), and (D), carry out the adjustment, and then retighten the screws.

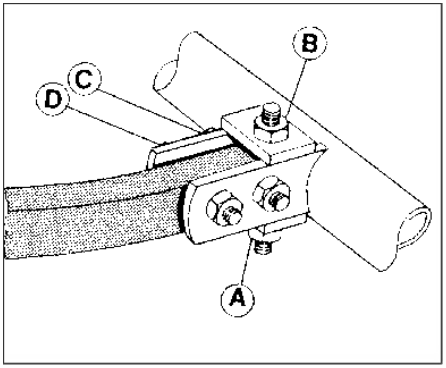
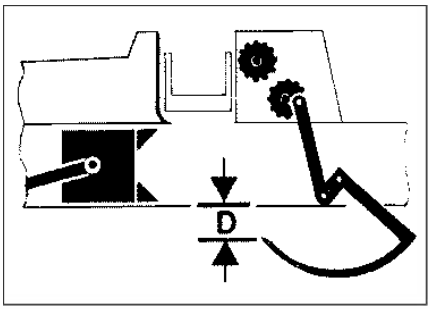
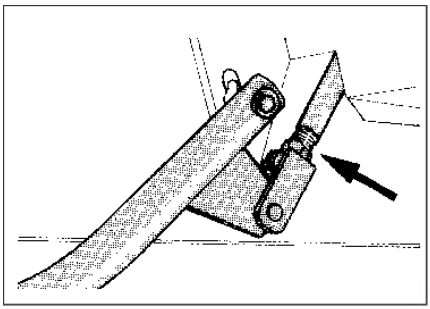


Fig.2

Adjustment of Binding Needles in Relation to Channel





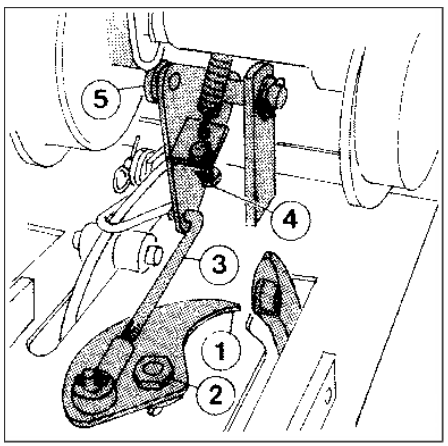
In neutral position, the points of binding needles should show 45-60 mm distance (D), in relation to the bottom edge of the channel.

5.4 Adjustment of Twine Lock in Relation to the Binding Needles

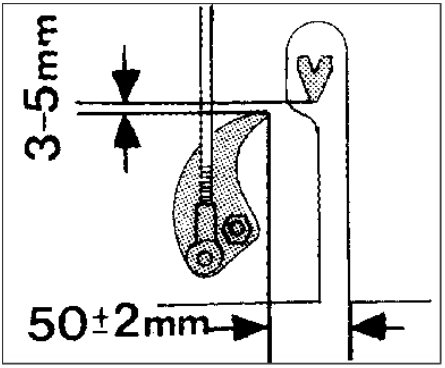
The distance between the twine lock point (1), and the inner needle edge should be about 3-5 mm. To. dislocate the twine lock, slacken screw (2). When screw has been turned, same has to be secured using a punch.

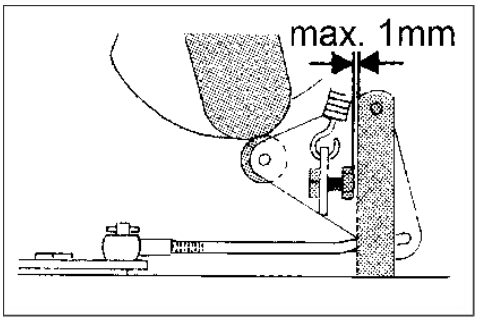
In neutral position, the point of the twine lock with twine tensioned, should be positioned at a distance of about 50 mm from the opposite edge of the needle slot.

Readjustment is possible by tightening or slackening the twine lock pull bar (3).



To avoid rotation of the twine lock beyond the dead centre position, a setscrew (4), has been provided on the support of the control shaft.





The distance between the setscrew (4), and the stop should be max. 1 mm when control roller (5), is positioned at the highest point of the run-off path. At this point, however, the roller of the control shaft must not be twisted.

5.5Adjustment of Pressing and Binding Elements in Relation to Each Other

The following data have been specified to obtain correct settings in case of repairs or checking.

Owing to the fact that the adjustments as indicated influence each other, it is essential to perform them according to the following order: a), b), c).

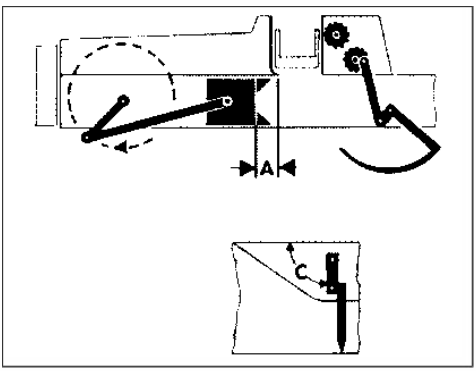
a) Adjustment of press piston in relation to the feeder

b) Adjustment of the binding shaft clutch in relation to the counter shaft

c) Adjustment of the binding needles in relation to the piston

a) Adjustment of the press piston in relation to the feeder

Move piston by actuating the flywheel into position as indicated in the figure. When feeder is vertical towards the bottom (C = 90º), the measurement A from the face of the piston to the rear edge of the feeder wall has to be A = 80-90 mm.



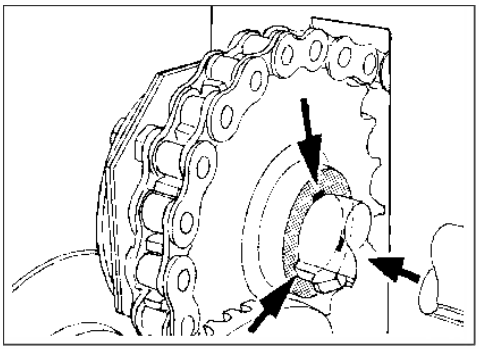
Adjustment is possible by

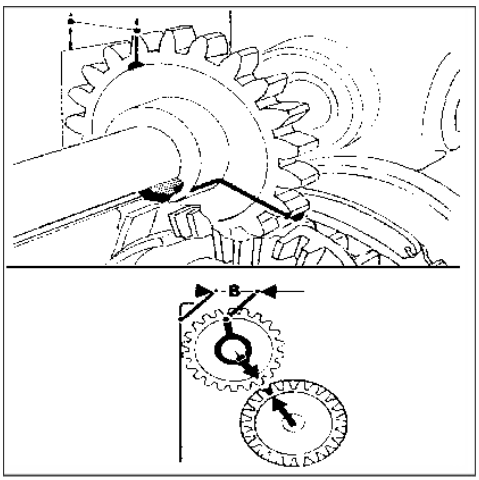
1. Relocating the main drive chain
2. Turning the chain sprocket on the counter-shaft (3 key grooves on the hub)

After repairs on the angular gear, readjust meshing of bevel gears in a way that with vertically positioned feeder (C= 90º) the measurement B from feeder rear wall to the drilled setting mark on the spur wheel is B = 70mm.

b) Adjustment of the binding shaft clutch in relation to the counter-shaft

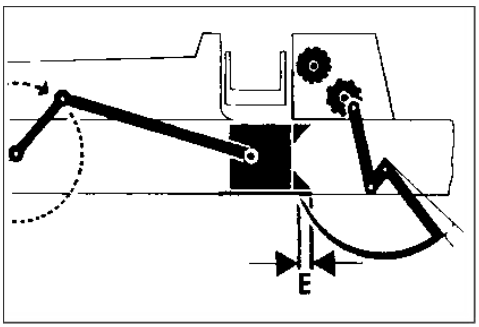
When fitting the binding table make sure that the two toothed wheels are so adjusted that the tooth above the feather key groove of the counter-shaft wheel meshes in the tooth space of the cam disc wheel.





c) Adjustment of the binding needles in relation to the piston

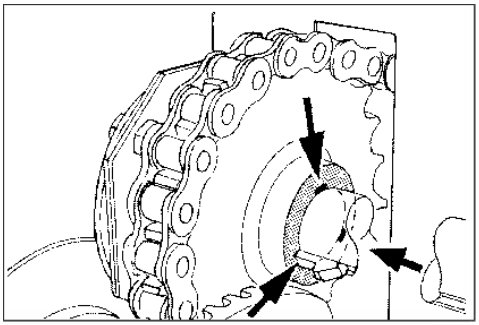
This adjustment has to be such as to provide for the needles to pass through the piston slots towards the top.



The overlap E at entering needle points the compression chamber, must be:

E = 60-80 mm

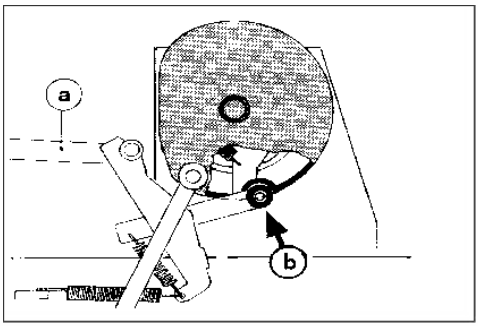
When readjusting



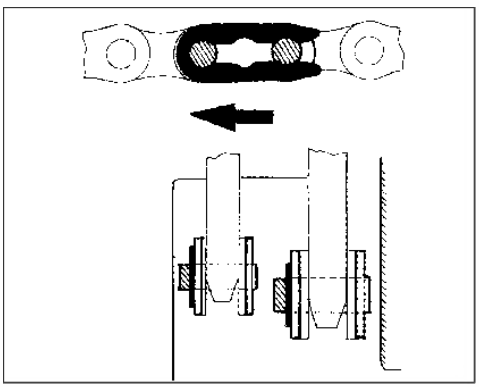
Operate switching by actuating the straw metering wheel and the flywheel in sense of the arrow until binding needles are at height of the channel bottom.

Check overlap E.

If adjustment is necessary, slacken the main drive chain, and adjust the overlap E, yet making sure that one tooth of the main drive chain sprocket corresponds to about 50 mm of the overlap difference. Adjustment smaller than 50 mm has to be effected with the aid of the various positions of key grooves on the chain sprocket hub.



When mounting or tensioning the chain, make sure that the switching disc of the binding shaft clutch is not dislocated from the stop position (b).



Fitment of the chain lock safety spring is effected in the opposite sense of chain movement. Fitment of the locking link is from the side facing the gearbox. Then check overlap by actuating the flywheel in direction of the arrow.

5.6Setting and Checking Knotter

Closing piece

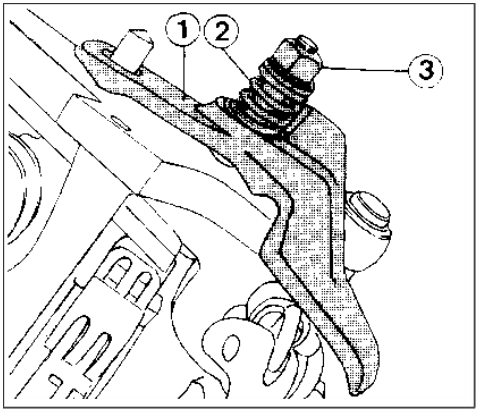
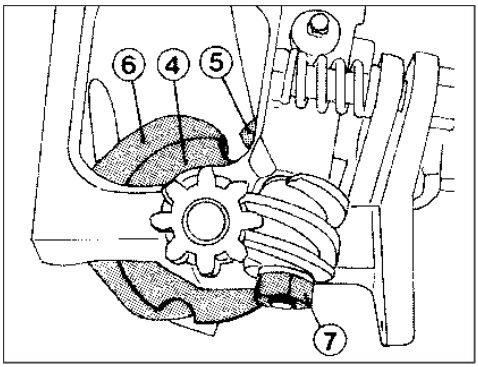


Figure A: The closing piece (1) is tensioned by a compression spring (2) and by a hex. nut M 8 DIN 985 (3) until the screw end is even with or projecting max. 1 mm from the nut. If the clamping effect of the closing piece is excessive, the knot will become caught on the knotter hook, and the twine will break. If the adjustment is too loose, knots will be loose in consequence.

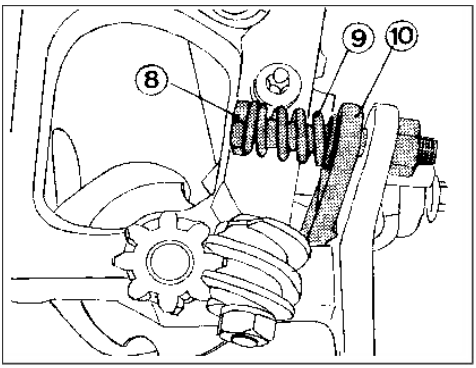


Twine holding device

Figure B: The groove of the driver (4) must be positioned between, the rear noses of the twine holder (5) and the rear cleaner section (6) in order to obtain a perfect admission of the twine. For checking the correct position of the groove, two knotting operations must have been carried out for the minimum. The two guide edges of the rear twine holder noses must project into the groove by approx.1-2 mm.

To adjust the driver, loosen nut (7) on the worm shaft. To slacken the worm gear, apply a light blow of a hammer to the shaft end. To obtain an optimal position, turn on worm gear respectively. We indicate, however, that the worm gear can be turned only when there is no twine on the twine holder.

Figure C: Adjustment of the clamping effect is carried out by the hex. head screw(8), exerting pressure via the compression spring (9) and the lever (10) to the twine holder. This screw is secured by a counternut. The clamping effect of the twine holder should be such only that while knotting the twine is not withdrawn from the twine holder. If the clamping effect is excessive, the twine will become frayed. In case of an increasing weight or density of bales, the clamping effect must be adjusted proportionally.



The type and degree of moisture of the crop require, in addition, various adjustments which have to be established according to the baling conditions.

Knife lever

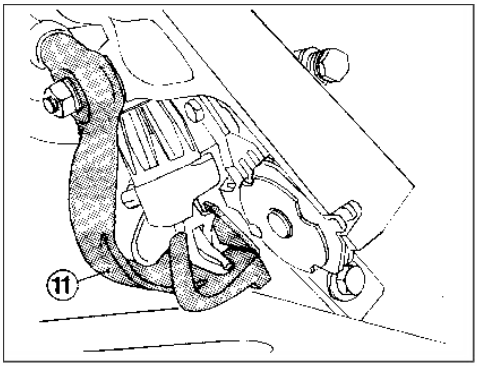
Figure D: The knife lever (11) accomplishes three functions:

a) Leading the twine

b) Cutting the twine between the twine holder and the knotter mouth

c) Dropping the loop or the finished knot

To come up to these requirements perfectly, the knife lever has been adjusted at works carefully.



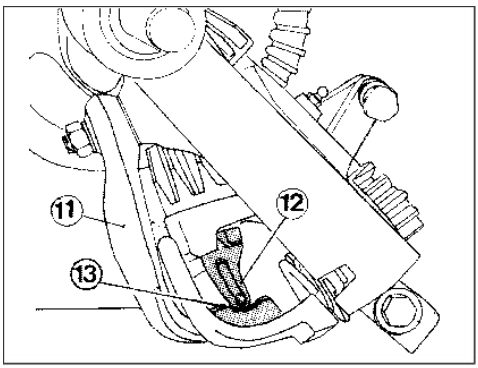


Fig.E

Function test

Figure E: The knife lever (11) must be so adjusted that the knotter bill (12) can freely move. The stripper (13) should lightly touch the back of the knotter hook. The stroke of the knife lever should ensure safe stripping of the knot from the knotter bill.

Figure: F: The stripper in dead centre position of the lever should be at a distance of 10-15 mm from the point of the knotter hook.

When checking, carry out a binding operation by hand, and find out the greatest distance according to the figure.

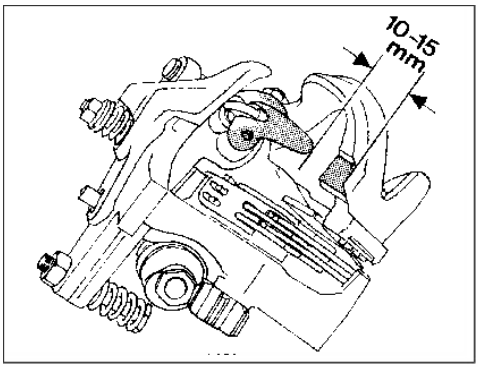


Fig.F

Figure G: When eventual dressing of the lever is necessary, undo fixing of apparatus at the binding table (fixing pin (14) with spring clip), and swing knotter frame (15) towards the top round the binding shaft.

Now the knife lever can be dressed by blows of a hammer until stripper comb can lightly touch the knotter hook.

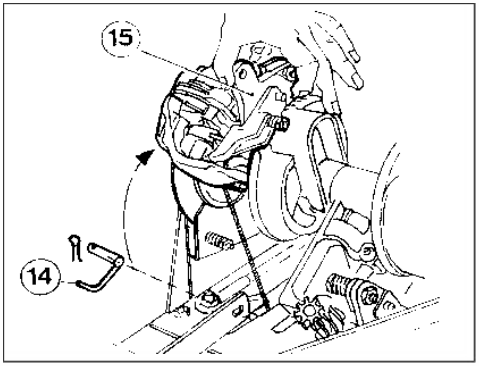


Fig.G

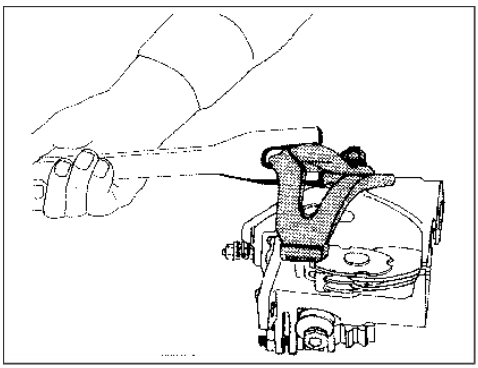
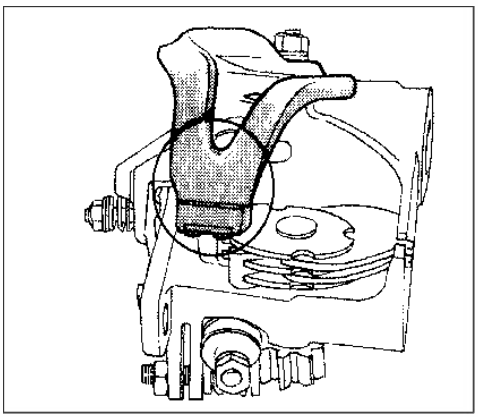


Fig.H

Figure H: Dressing to a strip measurement of 10-15 mm can be actuated best with the help of a moving iron when lever has been removed.

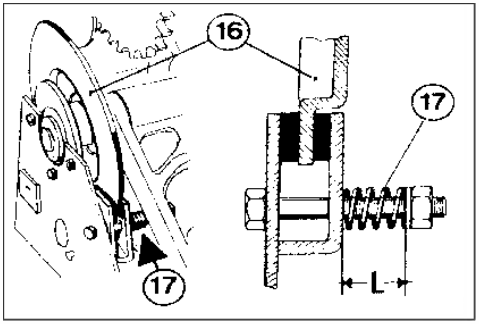
Figure I: The knife lever also acts as a twine guide. This is the reason why twine guide edges should be rounded and their surfaces smoothed, particularly in the marked area as indicated by circle in the figure.



The twine cutting knife is replaceable and fitted to the knife lever by 2 hex. head bolts.

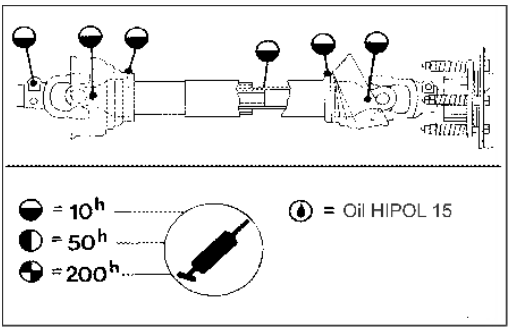
It is absolutely necessary to make sure that the cutting edge has to be re-sharpened whenever twine ends are cut off at unequal lengths or if same are frayed. Blunt twine cutting knives effect knots on the knotter hook. In such case the knot remains caught on the knotter hook.

Figure K: The binding shaft brake (16) will be adjusted correctly if the spring (17) is compressed to the 25-26 mm length.

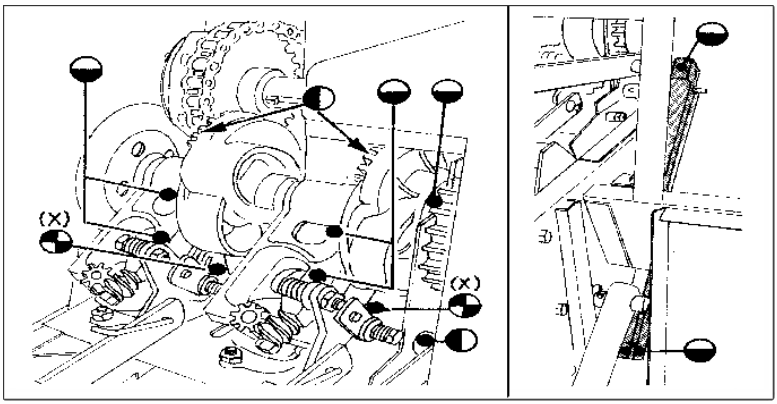


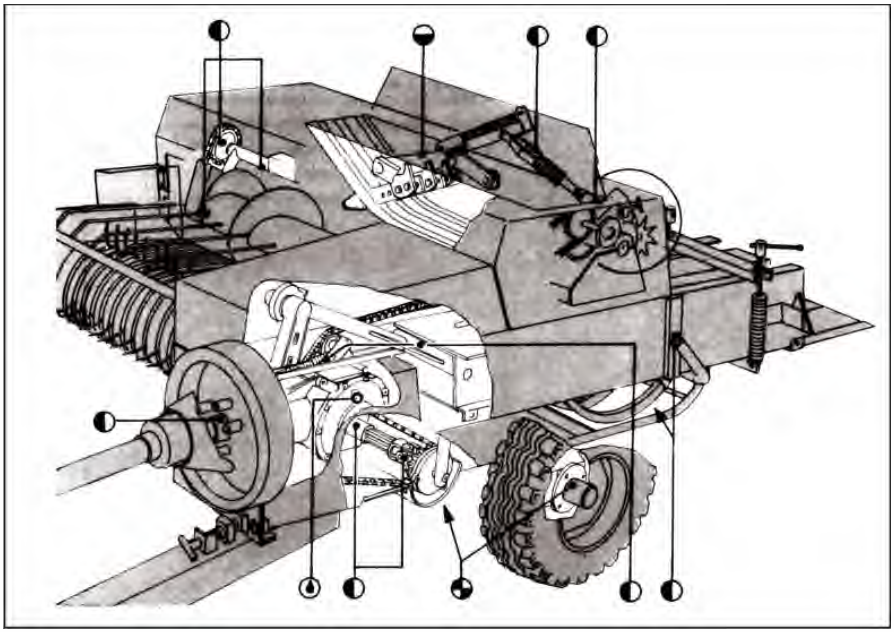
5.7 Greasing Chart

* Use only clean grease K 2 k according to DIN 51825, e. g. „Deutzer Ol", HFL 300 W or Shell Retinax A.
* Before putting grease gun to the grease nipple, clean the grease nipple and the nozzle of the grease gun.
* Lubricate chains and chain sprockets regularly, using a brush.
* Grease lower positioned knotter hook bearing (X) every 200 hours or at least once every year before starting the campaign.



* Remove dirt regularly from the tooth spaces of the knotter discs.
* Check oil level of the main gear every year. When refilling use Hypoid oil SAE 90 only. Filling height: up to filler cap.
* Lubricate with grease or oil side way of the knotter disc and threads of the compression spindles once every week.
* Whenever setting the machine to work, grease curved path of the feeder automatics.





5.8Wintering

a) Clean Baler inside and outside carefully.

b) Grease Baler according to the Greasing Chart.

c) Protect bright spots of the compression chamber against corrosion, using grease.

d) Clean bright knotter parts, and lubricate with grease.

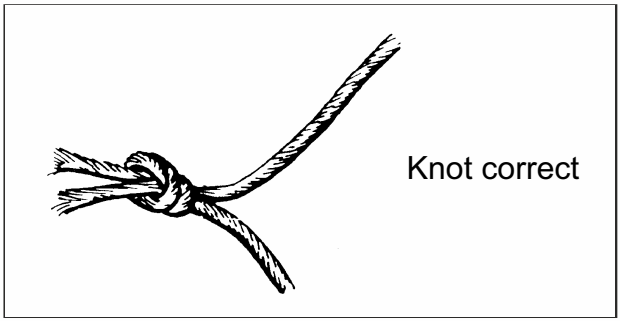
e) Check oil level of the main gear.

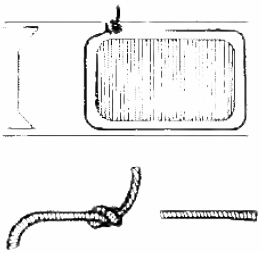
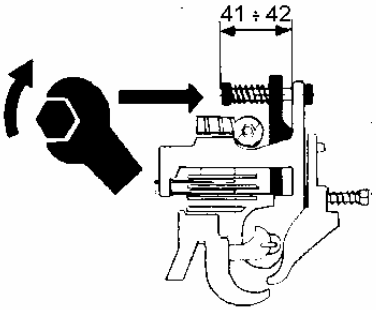
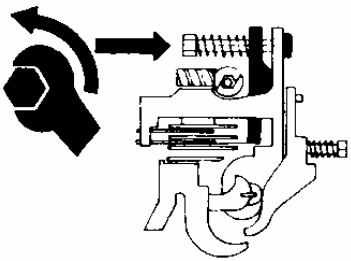
f) Jack up the machine, and discharge the tyres.

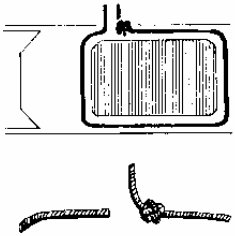
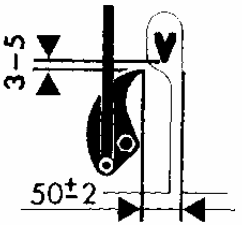
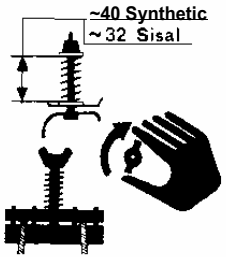
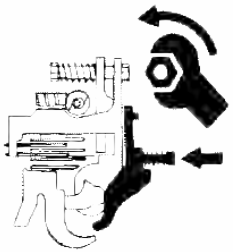
g) Lubricate the main drive chain, using oil.

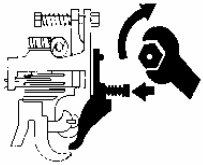
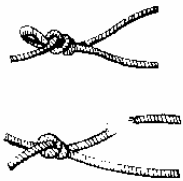
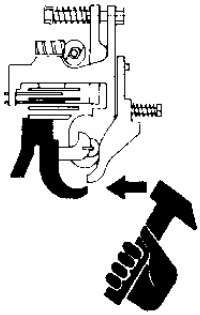
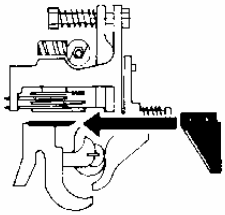
6.Elimination of Troubles

6.1Elimination of Troubles at Knotting



Type of trouble	Cause	Elimination
1	2 3	
 Twine is **not** wrapping round the **whole** bale: knot existing only on the **front** twine end (piston side)	Insufficient clamping effect of the twine holder	 Tighten compression spring by the hex. head screw. After adjustment lock hex. head screw by counternut.
 Twine is cut off or frayed, yet without forming a knot.	The clamping effect of the twine holder is too strong.	 Loose the compression spring a little by slackening the hex. head screw. After adjustment, secure by counternut

1	2 3	
 Tine wraps the **whole** bale but knot existing on the **rear** twine end (towards channel end) only	The twine is not correctly grasped by the twine lock or wrongly conveyed to the knotter	 Check adjustment of the twine lock. The distance from the twine lock to the needle should be 3-5mm. The measurement from point of twine lock to the needle slot should be 50 – 2 mm.
 Simple knot existing on one twine end only while other twine end is passed through without forming a knot.	Twine tension is unsatisfactory. The twine transported by the needle up to the knotter hook is not placed upon the knotter bill. Twine lock not transporting twine far enough under the knotter hook.	 Tighten twine brake a little by 1-2 turns of the winged nut. Warning! Twine should always run between the two guide pins of the twine brake. Check position of the twine lock, and adjust when necessary.
 Knot **remaining caught** on the knotter hook, twine breaks.	The compression spring of the closing piece is too much tightened. Compression spring too much tightened. The knife lever does not drop the knot. Twine forming grooves on the knotter tongue.	 Slacken nut on screw of the closing piece by 1/2-1 turn Slacken a little the compression spring. Dress the knife lever as described on the next page. Replace the knotter hook.

1	2 3	
 Knots tied too loose	Unsatisfactory tension of compression spring of the closing piece.	 Tighten nut of the compression spring of the closing piece by 1/2-1 turn
 A twine end is tied up together with the knot, forming a loop. Twine is frayed or **broken** at a short distance **behind** the knotter.	Insufficient stroke of the knife lever. Stripping edge of knife lever exerting too much pressure onto back of the knotter hook while knot is being dropped. Rough twine running surface on the knife lever.	 Dress knife lever so that distance from stripping edge of knife lever is 10-15mm to the point of the knotter hook in dead centre position. (fig.F) Dress knife lever but make sure that knotter hook is freely movable. Stripping edge of knife lever must lightly slide over the back of the knotter hook. Flatten twine running surface on the knife lever.
 **Frayed** twine ends of unequal lengths.	Blunt twine cutting knife. Unsatisfactory density of bales.	 Replace or re-sharpen twine cutting knife (re-sharpening permissible only twice). Retighten tension springs at channel end.

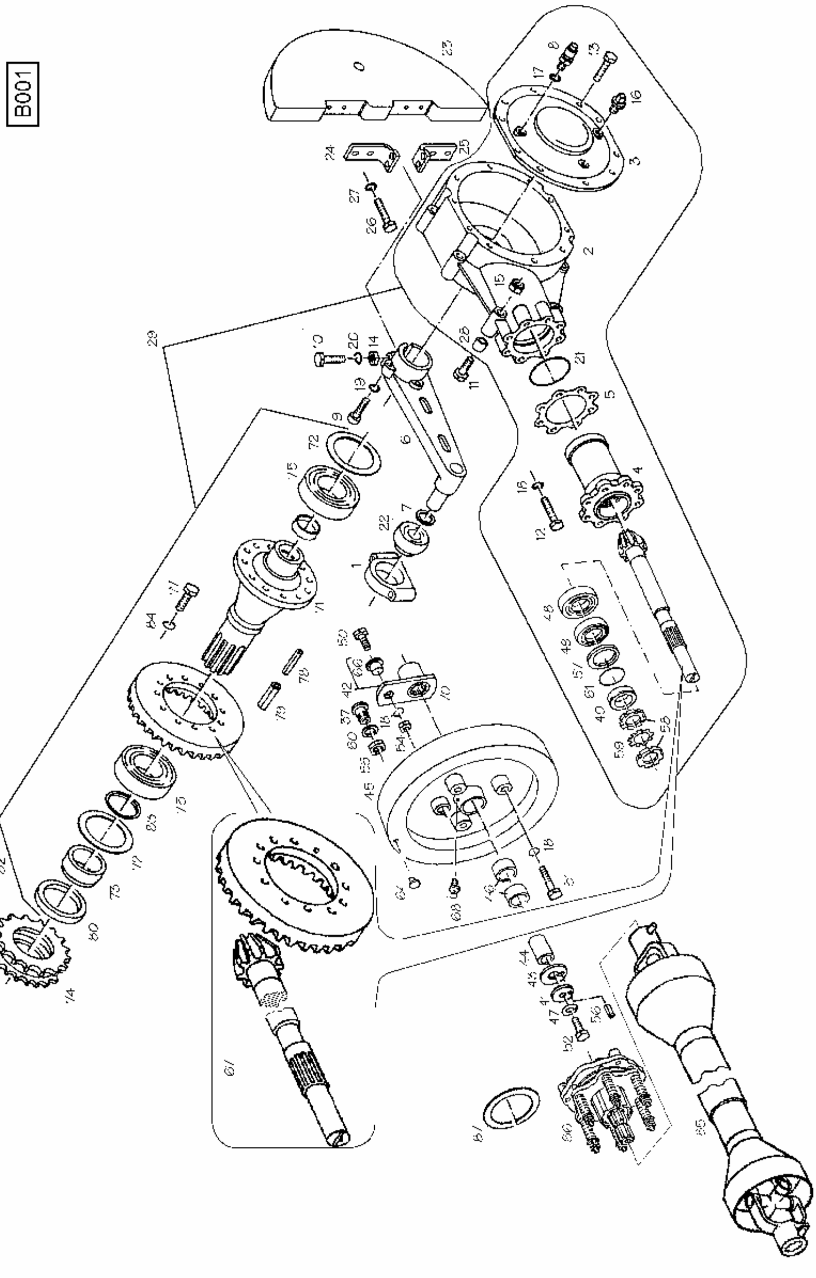
6.2Eliminatin of General Troubles

Type of trouble	Possible cause	Elimination
Broken binding needle or cut off screw M6x30-8.8 DIN 933 (threaded up to head) on needle pull bar.	Solid object in the needle slots	Remove object, and clean slots
	Wrong needle adjustment.	Readjust the needles.
	Worn binding shaft clutch.	Replace clutch.
	Wrong adjustment of the needle drive.	Readjust the needle drive.
	Needle passages in piston clogged.	Particularly when baling short and wilted crops, check needle passages regularly, and clean when necessary.
Cut off safety bolt on flywheel	Blunt knives.	Sharpen knives. Eventually reverse the channel knife.
	Excessive clearance between the knives.	Readjust knives.
	Clutch of universal-joint drive shaft not responding	Function test
	Nut of safety bolt loose.	Retighten nut.
	Unsatisfactory quality of bolt.	Use hex. head screw 8.8.
Incompletely picked up crop from the field..	Pick-up drum too high above the ground.	Set to a lower position.
	Too many pick-up tines broken or bent.	Replace broken and/or bent pick-up tines.
	Travelling speed too high.	Reduce the travelling speed.
Frayed bales	Blunt knives.	Sharpen knives. If need be, reverse the channel knife.
	Incorrectly positioned knives	Readjust the piston guide rails, and adjust the piston knife. Knife clearance: approx. 0.5-1.0mm.
Irregular lengths of bales	Switch bar is slipping	Readjust.
	Irregular feed of crop.	Take care of providing a regular feed (uniform height of swaths).
	Switch bar excessively worn.	Replace worn parts.
	Slackened drive pinion	Tighten hex. nut.
	Excessive crop feed per piston stroke.	Increase the P.T.O. speed. Make smaller swaths, or reduce the travelling speed.

7. List of Tables

B001 GEAR BOX
B002 CHAIN TENSIONER
B003 GEAR BOX COMPLETE ON FEEDER
C001 WHEEL ASSEMBLY
E001 KNOTTER TABLE
E002 BINDING NEEDLE
E003 TWINE KNOTTING ASSEMBLY
E004 ENGAGING AND DISENGAGING PARTS
F001 PRESS CHAMBER
F003 FEEDING TABLE
F005 DRAW BAR
G001 BALE CHUTE
G002 BALE DISCHARGE PLATE
H001 LIGHTING EQUIPMENT
K001 PICK-UP DEVICE
K002 PICK-UP DEVICE DRIVE SAFETY

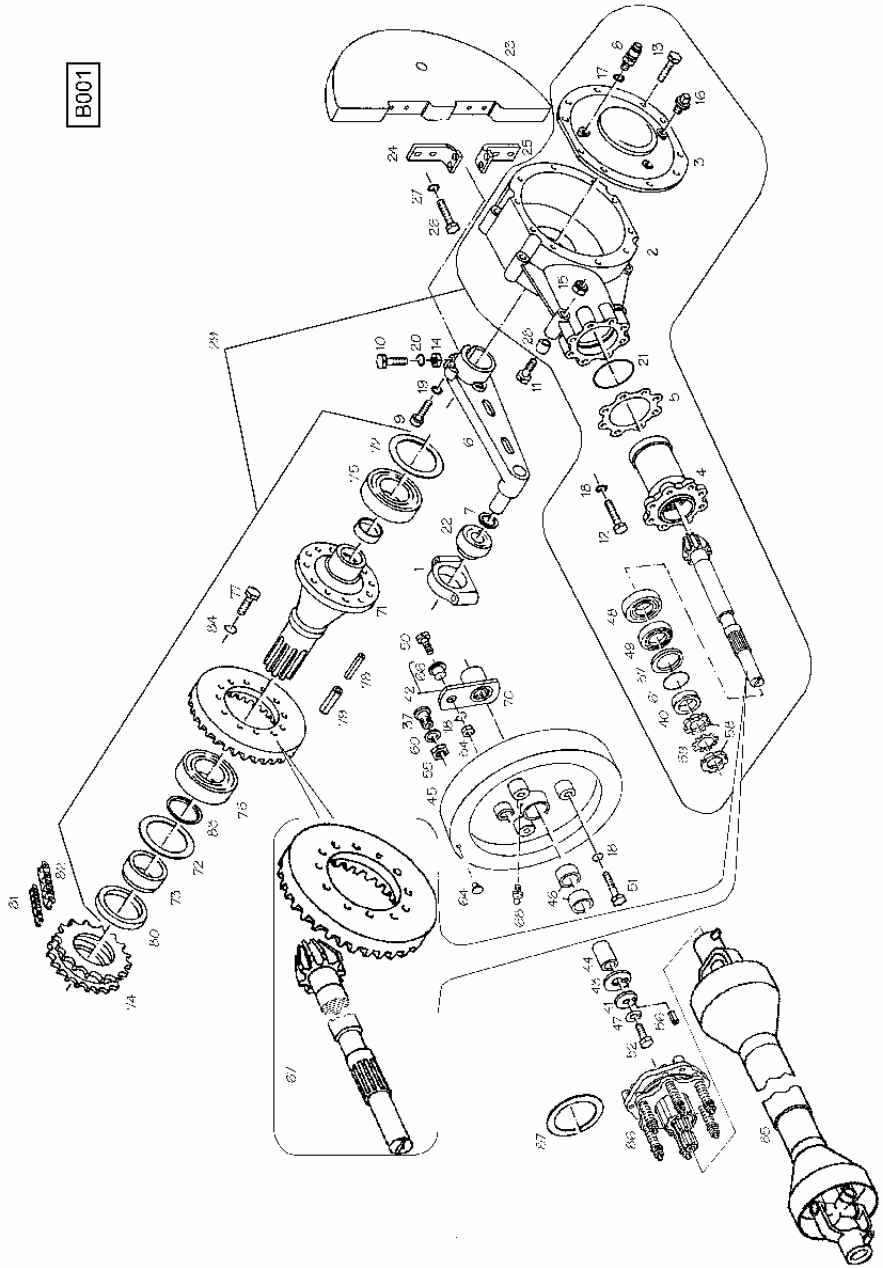
CLUTCH
K003 PICK-UP LIFT
K004 WINDROW FORMING DEVICE
L001 PRESS PISTON
L002 FEEDER
M001 GUARDS 1
M003 GUARDS 2
U001 BALES COUNTER
N001 HYDR. ADJUSTMENT OFF DRAW BAR
N002 HYDR. ADJUSTMENT OFF PICK-UP


B001

B001 GEAR BOX-10630018

Sr. No.	Description	No.s	Part Code
1	BEARING BUSH	1	10630041
2	GEAR HOUSING	1	10630042
3	COVER	1	10630043
4	CANTILEVER FLANGE	1	10630044
5	SPACER 0.5	2	10630045
5.1	SPACER 0.2	2	10630046
5.2	SPACER 0.1	2	10630047
5.3	SPACER 0.05	1	10630048
5.4	SPACER 1.0	1	10630049
6	LIFT ARM	1	10630050
7	SPACER	1	10630051
8	AIR VALVE	1	10190018
9	SCREW M12x55-8.8	3	10260666
10	HEX. HEAD SCREW M16x150-8.8	2	10260667
11	HEX. HEAD SCREW M16x100 8.8	6	10260668
12	HEX. HEAD SCREW M10x30 8.8	8	10260669
13	HEX. HEAD SCREW M12x30 10.9	10	10260670
14	HEX. NUT M16-8	2	10280186
15	LOCK NUT M16-8	6	10280187
16	FITTING 1/2 - T9	2	10630052
17	SEAL RING 17/3/P	1	10590002
18	SPRING WASHER Z 10.2	12	10270184
19	SPRING WASHER 12.2	3	10270185
20	SPRING WASHER Z 16.3	2	10270186
21	SEAL RING 80X2 8	1	10590003
22	BEARING D208	1	10050234
23	COUNTER WEIGHT	1	10630053
24	ANGLE RIGHT	1	10630054
25	ANGLE LEFT	1	10630055
26	HEX. HEAD SCREW M12x50 8.8	4	10260671
27	WASHER 13	4	10270187
28	BUSH	6	10630056
29	GEAR BOX	1	10630057
37	GUIDE BUSH	1	10630058
40	RING	1	10460008
41	WASHER	1	10270188
42	DRIVER	1	10630059
43	WASHER	1	10270190
44	SLEEVE	1	10630060

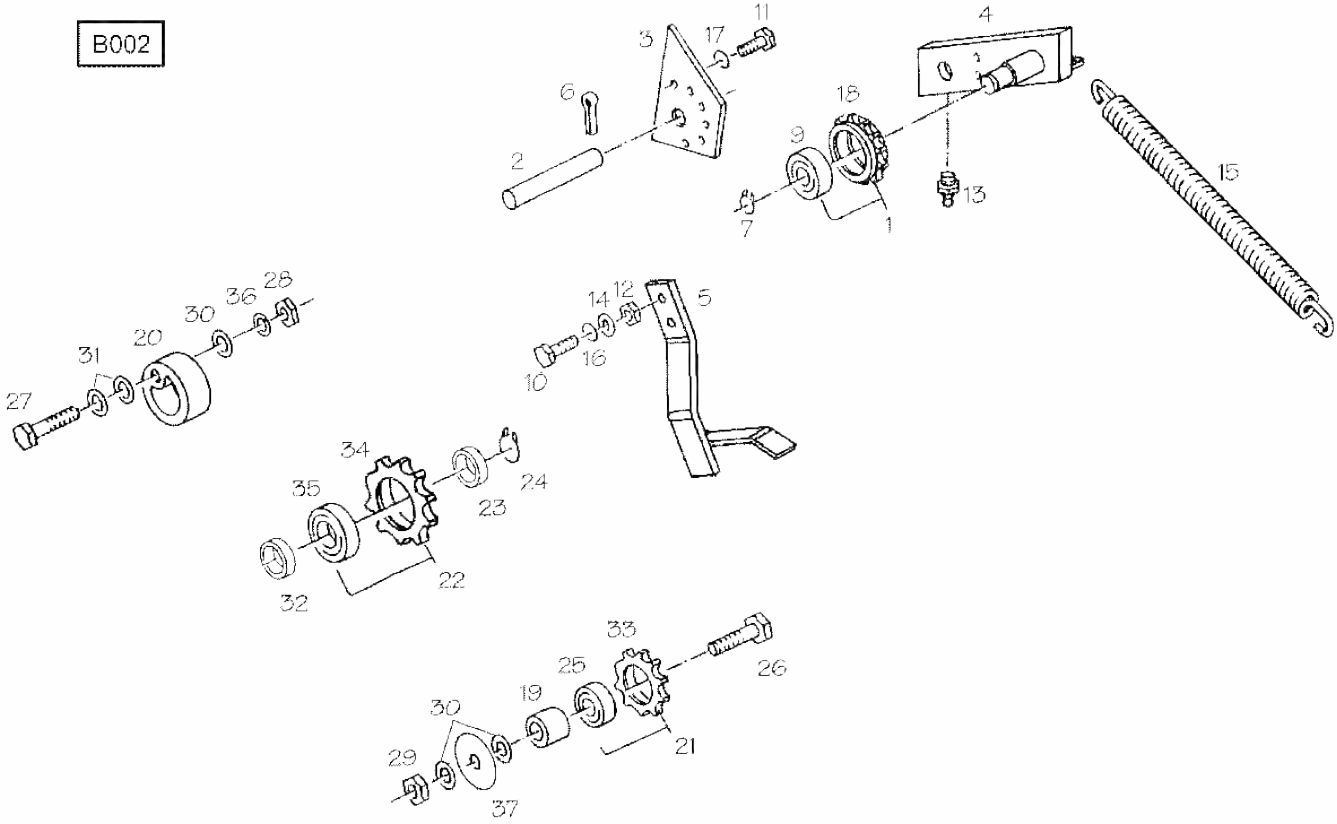
B001



B001 GEAR BOX-10630018

Sr. No.	Description	No.s	Part Code
45	FLY WHEEL	1	10630061
46	BEARING BUSH	2	10630062
47	LOCKING PLATE 15	1	10630063
48	TAPER R.BEARING 32009	1	10050235
49	TAP.ROLLER BEARING 31309	1	10050236
50	HEX. HEAD SCREW M10x65 8.8	1	10260672
51	HEX.BOLT M10x35-8.8	3	10260673
52	HEX. HEAD SCREW M14x35 8.8	1	10260674
54	HEX. NUT M10-8	1	10280188
55	HEX NUT M18x1.5	1	10280189
56	DOWEL PIN 8x12	1	10020168
57	SEAL-RING A 60x75x8	1	10590004
58	GROOVED NUT M45x1.5	2	10280190
59	LOCKING PLATE 45	1	10630064
60	SECURIN 9	1	10630065
61	O-RING 45x3	1	10590005
64	LOCKING SCREW	2	10260675
66	BUSH	1	10630066
67	DRIVE SHAFT + CROWN WHEEL	1	10630067
68	GREASE NIPPLE M8x1	1	10300757
70	DRIVER 20	1	10630068
71	FLANGED SHAFT	1	10630069
72	SPACER 1.0	4	10630074
72.1	SPACER 0.1	2	10630075
72.2	SPACER 0.2	4	10630076
72.3	SPACER 0.05	2	10630077
72.4	SPACER 0.5	1	10630078
73	INNER RING	1	10460009
74	SPROCKETS	1	10630070
75	COVER	1	10630079
76	TAP.ROLLER BEARING 30215	2	10050237
77	HEX HEAD SCREW M12x30 10.9	9	10260676
78	DOWEL PIN 8x30	3	10020169
79	DOWEL PIN 4x30	3	10020170
80	SEAL RING A 85x110x12	1	10590006
81	CHAINE 10B-122 PS	1	10140024
82	CHAINE 16BX-132	1	10140025
83	RING 75x2	1	10460010
84	SPRING WASHER 12.2	9	10270189
85	JOINT SHAFT	1	10630071
86	CLUTCH	1	10630072
87	FRICTION DISC 160		10630073

B002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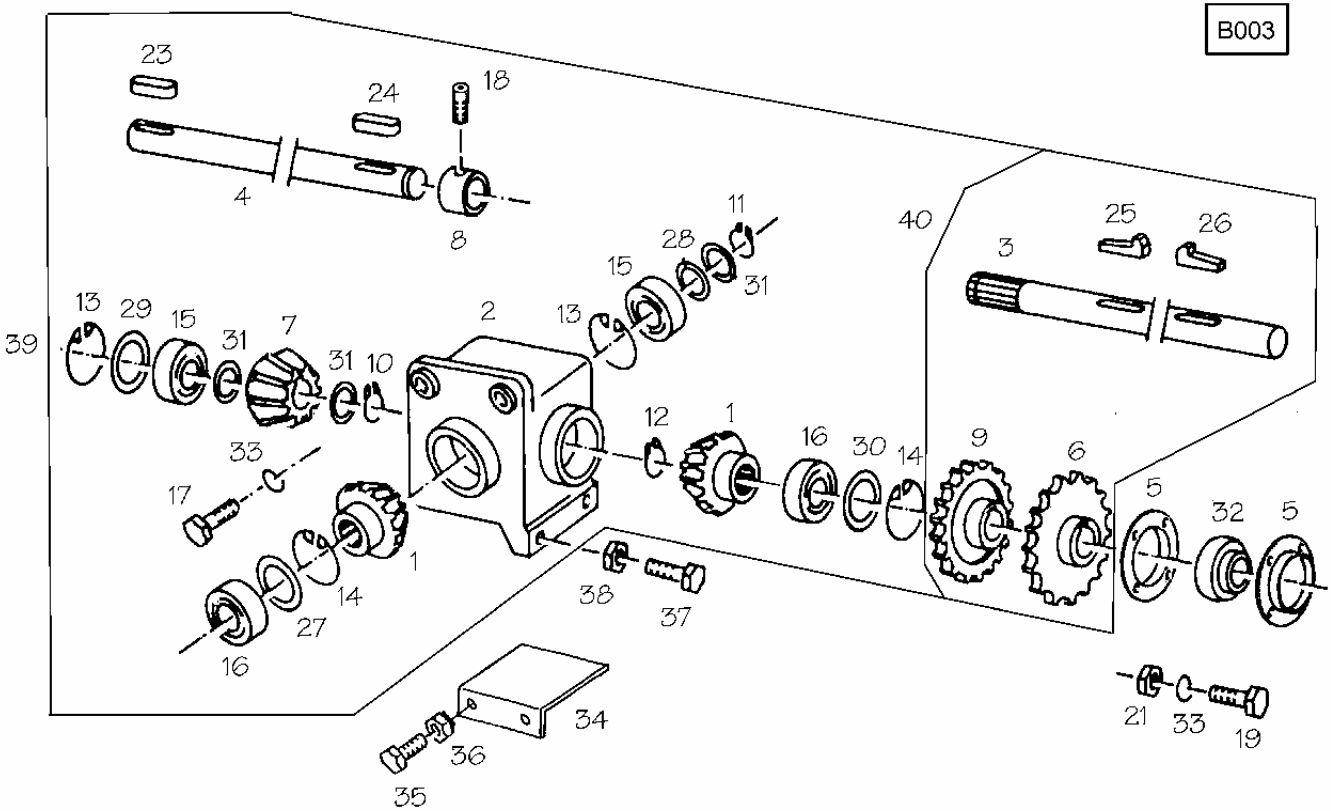
B002 CHAIN TENSIONER-10630019

Sr. No.	Description	No.s	Part Code
1	CHAIN SPROCKET	1	10630080
2	PIN	1	10020171
3	STOP	1	10630081
4	CHAIN TENSIONER	1	10630082
5	STRIPPER	1	10630083
6	SPLIT PIN S-Zn 5x50	1	10020172
7	CIRCLIP Z20x1.2	1	10390115
9	GR.BALL BEARING 6204-2RS-C3	1	10050238
10	HEX. HEAD SCREW M8x30 8.8	2	10260677
11	HEX. HEAD SCREW M10x20 8.8	1	10260678
12	HEX. NUT M8-8	2	10280191
13	GREASE NIPPLE M8x1	1	10300757
14	WASHER	2	10270191
15	DRAW SPRING	1	10210053
16	SPRING WASHER Z 8.2	2	10270192
17	SPRING WASHER Z 10.2	1	10270193
18	CHAIN WHEEL Z=10	1	10170027
19	SPACING TUBE	1	10630084
20	IDLER PULLEY	1	10630085
21	CHAIN SPROCKET	1	10170028
22	CHAIN SPROCKET	1	10170029
23	SPACER	1	10630086
24	CIRCLIP Z 30x1.5	1	10390116
25	GR.BALL BEARING 6201-2RS-C3	1	10050239
26	HEX. HEAD SCREW M12x55 8.8	1	10260679
27	HEX. HEAD SCREW M12x75 8.8	1	10260680
28	NUT M12-8	1	10280192
29	LOCK NUT M12-8	1	10280193
30	WASHER 13	3	10270194
31	WASHER	2	10270195
32	SPACING TUBE	1	10630087
33	CHAIN WHEEL Z=13	1	10170030
34	CHAIN WHEEL Z=13	1	10170031
35	GR.BALL BEARING 6206-2RS-C3	1	10050240
36	SPRING WASHER 12.2	1	10270196
37	WASHER	1	10270197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B003 GEAR BOX COMPLET ON FEEDER-10630020			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	PINION z=15	2	10630088
2	GEAR HOUSING	1	10080022
3	DRIVE SHAFT	1	10630089
4	DRIVE SHAFT	1	10630090
5	RING	2	10460011
6	SPROCKET z=22	1	10170032
7	PINION z=15/2	1	10630091
8	ADJUSTING RING	1	10460012
9	GEAR z=22	1	10250084
10	CIRCLIP Z 30	1	10390117
11	CIRCLIP Z 30x2	1	10390118
12	CIRCLIP Z 38	1	10390119
13	CIRCLIP W 62	2	10390120
14	CIRCLIP W 80	2	10390121
15	GR. BALL BEARING 6206 - 2RS	2	10050241
16	GR. BALL BEARING 6208 - 2RS	2	10050242
17	HEX. HEAD SCREW M12x45 8.8	2	10260681
18	HEX. HEAD SCREW M8x10 8.8	1	10260682
19	HEX. HEAD SCREW M12x25 8.8	4	10260683
21	NUT M12	4	10280194
23	FITTING KEY A8x7x28	1	10300758
24	SUNK KEY B8x7x32	1	10300759
25	GIB KEY N 12x8x50	1	10300760
26	GIB KEY N 12x8x60	1	10300761
27	WASHER 40.5x65.5x5	1	10270198
28	SPACER 30x42x0.1	2	10410056
28.1	SPACER 30x42x0.3	2	10410057
29	SPACER 50x62x0.1	2	10410058
29.1	SPACER 50x62x0.3	1	10410059
30	SPACER 63x80x0.1	2	10410060
30.1	SPACER 63x80x0.3	2	10410061
31	SPACER 30x42x2.5	2	10410062
32	BEARING D208	1	10050234
33	SPRING WASHER Z 12.2	6	10270199
34	COVER	1	10150059
35	HEX. HEAD SCREW M8x16 8.8	2	10260684
36	LOCK NUT M8 8	2	10280195
37	HEX. HEAD SCREW M12x40 8.8	2	10260685
38	LOCK NUT M12 8	2	10280196
39	PRIMARY GEAR	1	10250085
40	DRIVE SHAFT	1	10630092

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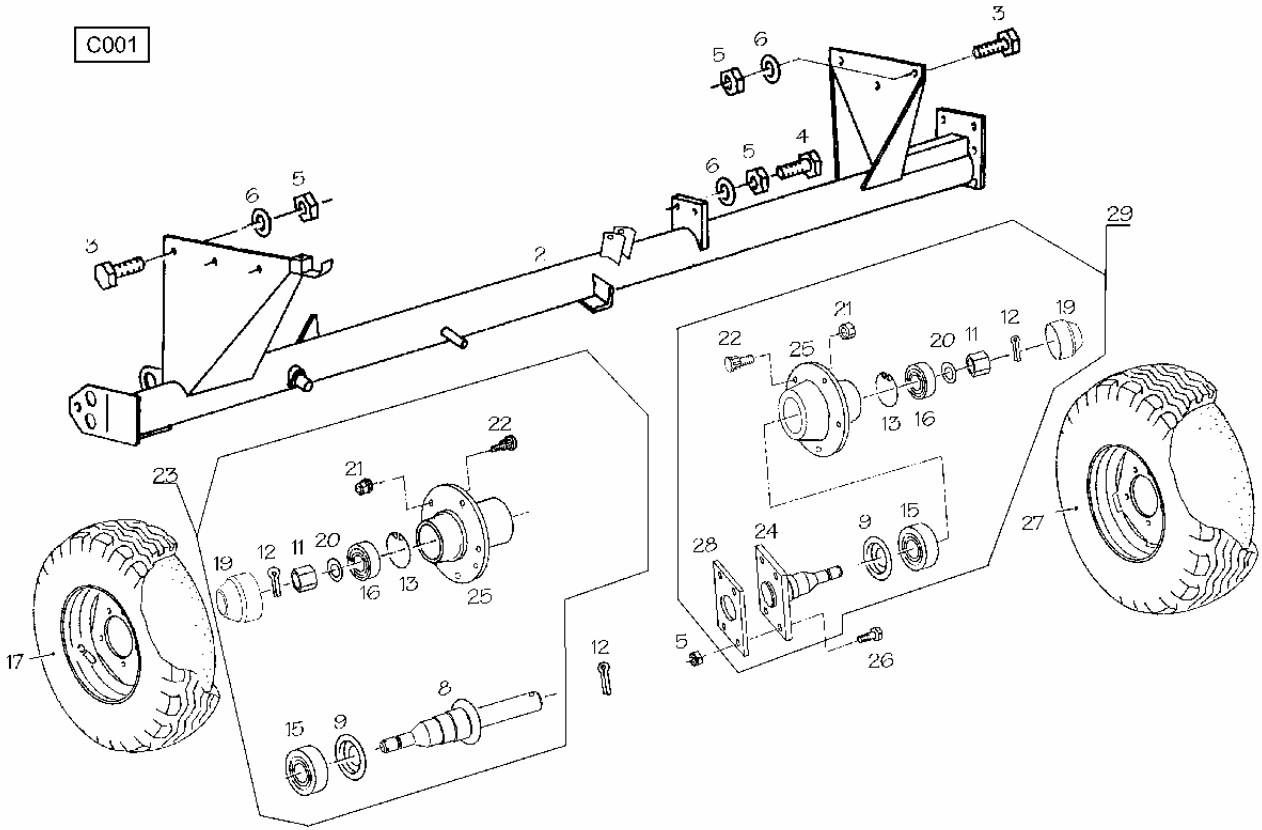

WHEEL ASSEMBLY - 10630021			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
2	AXLE	1	10110032
3	HEX. HEAD SCREW M12x40-8.8	6	10260686
4	HEX. HEAD SCREW M12x35-8.8	2	10260687
5	LOCK NUT M12-8	12	10280193
6	WASHER 13	6	10270187
8	AXLE JOURNAL	1	10110031
9	PACKING RING A45x80x10	2	10460013
11	CASTELLATED NUT ZM20-8-A	2	10280197
12	SPLIT PIN S-Zn 4x50	3	10020173
13	CIRCLIP W55	2	10390122
15	BALL BEARING 6208	2	10050243
16	BALL BEARING 6006	2	10050244
17	OUTER COVER	1	10350044
17.1	RIM4 1/2 Kx15 kpl	1	11040032
17.2	VALVE A B	1	10630093
17.3	INNER TUBE 185-15	1	11090018
17.4	PROTECTIVE HOOD B C	1	10630094
17.5	TYRE 185R15C	1	10350045
19	COVERING PLATE	2	10300762
20	SPACER 21	2	10410063
21	NUT M14x1.5	10	10280198
22	PIN	10	10020174
23	RIGHT AXLE COMPLETE	1	10630095
24	WHEEL STUD	1	10300763
25	WHEEL HUB	2	10090062
26	HEX. HEAD SCREW M12x45 8.8	4	10260688
27	OUTER COVER	1	10350046
27.1	RIM9.00-15.3 kpl	1	11040033
27.2	VALVE A B	1	10630093
27.3	INNER TUBE 10.0/75-15.3	1	11090019
27.4	PROTECTIVE HOOD B C	1	10630094
27.5	TYRE 10.0/75-15.3	1	10350047
28	MIDDLE PLATE	1	10130011
29	LEFT AXLE COMPLETE	1	10630096

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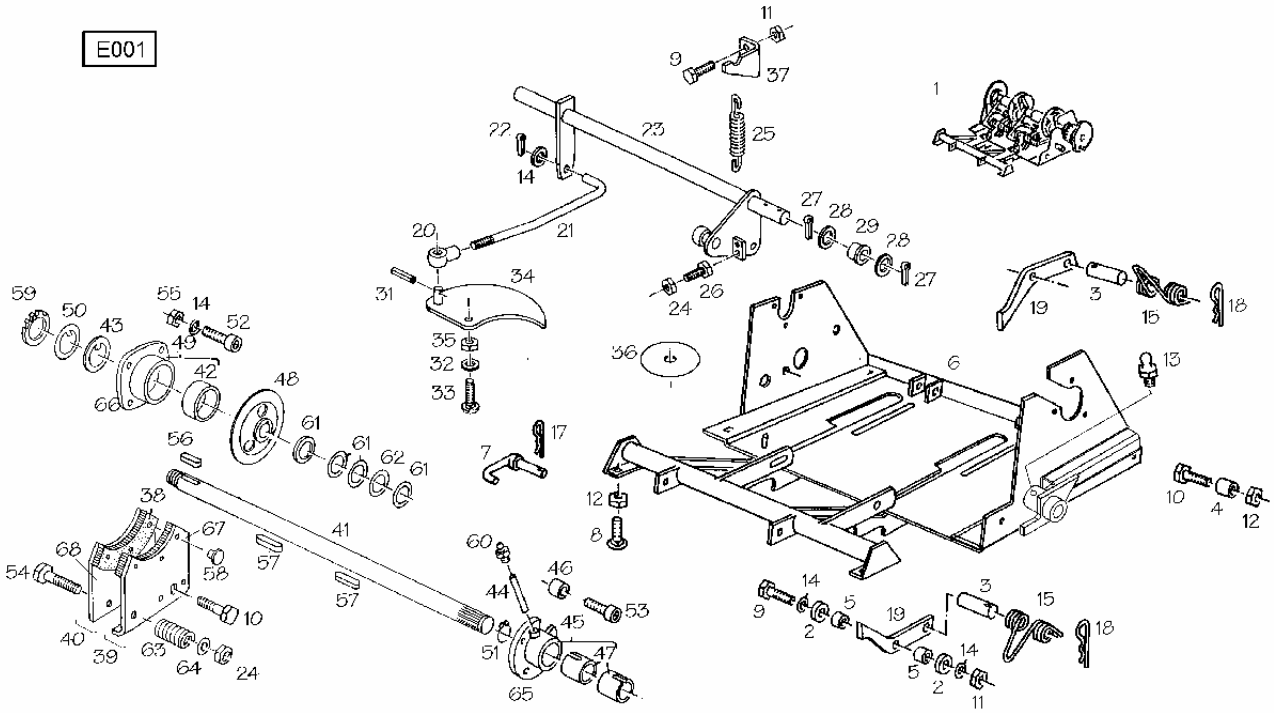
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E001 KNOTTER TABLE - 10630022			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	TABLE	1	10630097
2	RUBBER ROLL	6	10630098
3	PIN	3	10020175
4	TUBE	3	11090020
5	SPACER	6	10300764
6	TABLE	1	10630099
7	FIXING PIN	2	10020176
8	SAUCER HEAD SCREW M10x25-8.8	6	10260689
9	HEX. HEAD SCREW M8x25-8.8	5	10260690
10	HEX. HEAD SCREW M10x40-8.8	4	10260691
11	LOCK NUT R M8-8	5	10280199
12	LOCK NUT R M10-8	9	10280200
13	GREASE NIPPLE M8x1 H	1	10300765
14	WASHER 8.4	11	10270200
15	TORSION SPRING	3	10210054
17	SPRING CLIP	2	10020177
18	SPRING CLIP	3	10020178
19	LOCKER	3	10630100
20	ADJUSTMENT PIECE	2	10300766
21	PULL ROD	2	10300767
22	SPLIT PIN S-Zn 3.2x16	2	10020179
23	SHAFT	1	10070119
24	HEX. NUT M10-8	2	10280188
25	TENSION SPRING	1	10210055
26	HEX. HEAD SCREW M10x30-8.8	1	10260692
27	SPLIT PIN S-Zn 4x25	2	10020180
28	WASHER 17x28x1.0	4	10270201
29	BEARING BUSH	1	10630101
31	DOWEL PIN 3x20	2	10020181
32	WASHER 11x30x5	1	10270202
33	SCREW M8x20 5.8	2	10260693
34	LATCH	2	10630102
35	THREADED PIECE	2	10280201
36	WASHER 11x70x5.0	1	10270203
37	ANGLE	1	10630103
38	CLUTCH LINING	2	10300768
39	BRAKE PLATE	1	10630104
40	BRAKE PLATE	1	10630105
41	SHAFT	1	10630106
42	GREASING TUBE	1	10300769
43	WASHER	1	10270204
44	GREASING TUBE	1	10300770
45	BINDING BEARING	1	10050245
46	RING	1	10460014
47	BEARING BUSH	2	10630107
48	BRAKE DRUM	1	10630108
49	FLANGED BEARING	2	10050246
50	LOCKING PLATE 30	1	10300771
51	CIRCLIP Z35	1	10390123
52	SOCKET H.CAP SCREW M8x20 5.8	3	10260695

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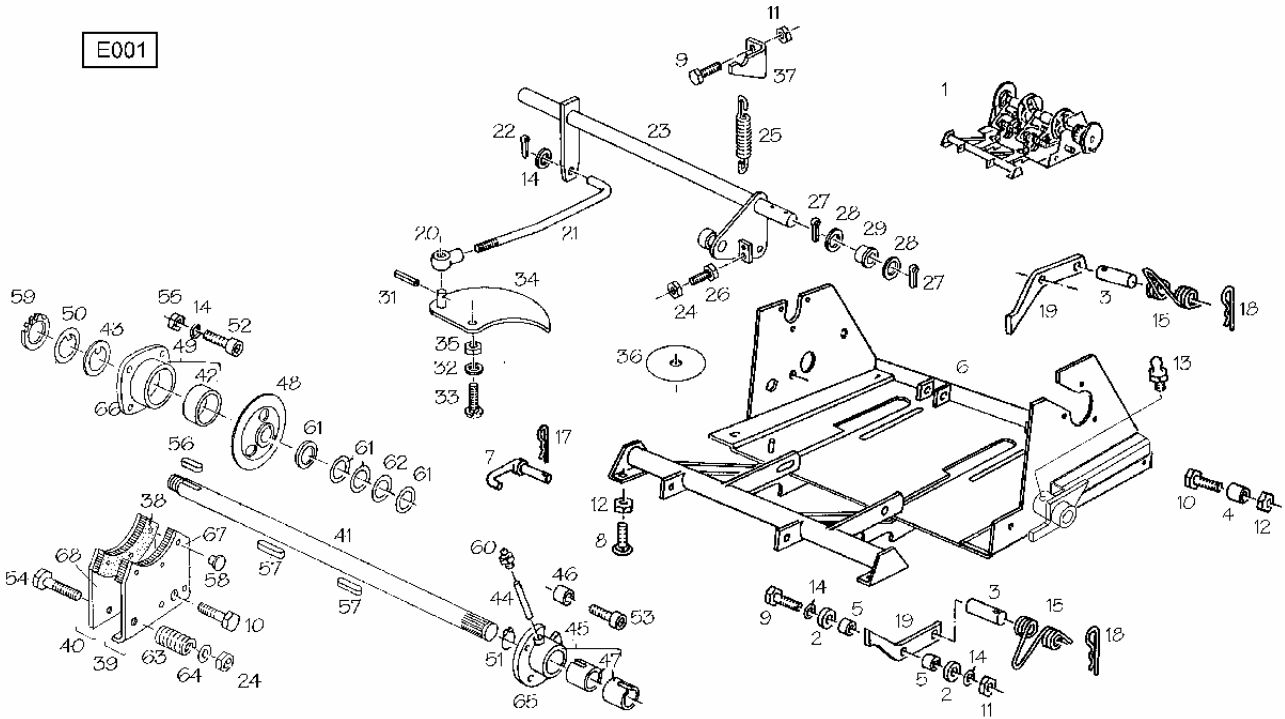
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E001 KNOTTER TABLE - 10630022			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
53	SOCKET H.CAP SCREW	3	10260696
54	HEX. HEAD SCREW M10x60-8.8	2	10260694
55	HEX. NUT M8-8	3	10280202
56	FITTING KEY A10x8x32	1	10300772
57	FITTING KEY A10x8x40	2	10300773
58	RIVET 4x10 Ms B	6	10300774
59	GROOVED NUT M30x1.5	1	10280203
60	GREASE NIPPLE M6x1 H	1	10300775
61	SPACER 35x45x0.1	4	10410064
61.1	SPACER 35x45x0.3	2	10410065
61.2	SPACER 35x45x1.0	9	10410066
62	WASHER 35x45x2.5	4	10270205
63	COMPRESSION SPRING	2	10210056
64	WASHER 10.5	2	10270206
65	HUB	1	10090063
66	FLANGED BEARING	1	10050247
67	BROKE PLATE- OUTSIDE	1	10630109
68	BROKE PLATE- INSIDE	1	10630110

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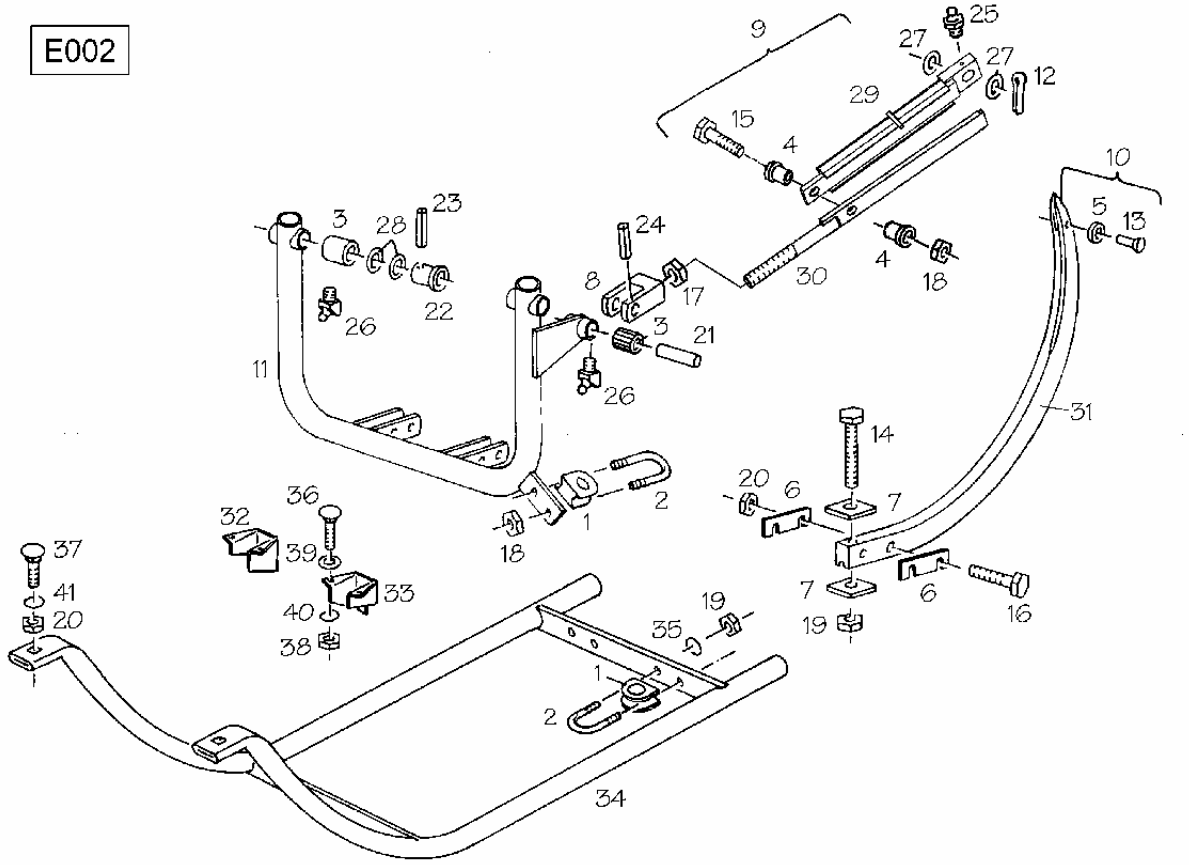
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E002 BINDING NEEDLE - 10630023			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	PORCELAIN RING	4	10300776
2	SCREW	4	10260697
3	BEARING BUSH	3	10630111
4	BUSH	2	10630112
5	ROLLER	2	10300777
6	SPACER	4	10410067
7	CLIP	4	10300778
8	FORK	1	10630113
9	PULL ROD	1	10630114
10	BINDING NEEDLE	2	10630115
11	NEEDLE SHAFT	1	10630116
12	SPLIT PIN S-Zn 4x32	1	10020182
13	RIVET 5x20	2	10300779
14	THREADED PIN M8x65-8.8	2	10260698
15	HEX HEAD SCREW M6x30-8.8	1	10260699
16	HEX. HEAD SCREW M10x50-8.8	4	10260700
17	HEX. NUT M20-8	1	10280204
18	LOCK NUT M6-8	4	10280205
19	LOCK NUT M8-8	6	10280206
20	LOCK NUT M10-8	6	10280207
21	PIN 20x50	1	10020183
22	PIN 20x90	2	10020184
23	DOWEL PIN 5x28	4	10020185
24	DOWEL PIN 5x40	2	10020186
25	GREASE NIPPLE M6x1 H	1	10300780
26	GREASE NIPPLE M8x1/45 H	3	10300781
27	WASHER 21x32x1.0	2	10270207
28	WASHER/DISC/PLATE 21x32x1.5	4	10270208
29	PULL ROD	1	10630117
30	PULL ROD	1	10630118
31	BIND NEEDLE	1	10630119
32	GUARD	1	10630120
33	GUARD	1	10630121
34	PROTECTING YOKE	1	10630122
35	WASHER 6.4	4	10270209
36	SAUCER HEAD SCREW M6x16-5.8	4	10260701
37	SAUCER HEAD SCREW M10x25-5.8	2	10260702
38	HEX.NUT M6-8	4	10280208
39	WASHER 6.5	4	10270210
40	SPRING WASHER 6.1	4	10270211
41	SPRING WASHER 10.5	2	10270212

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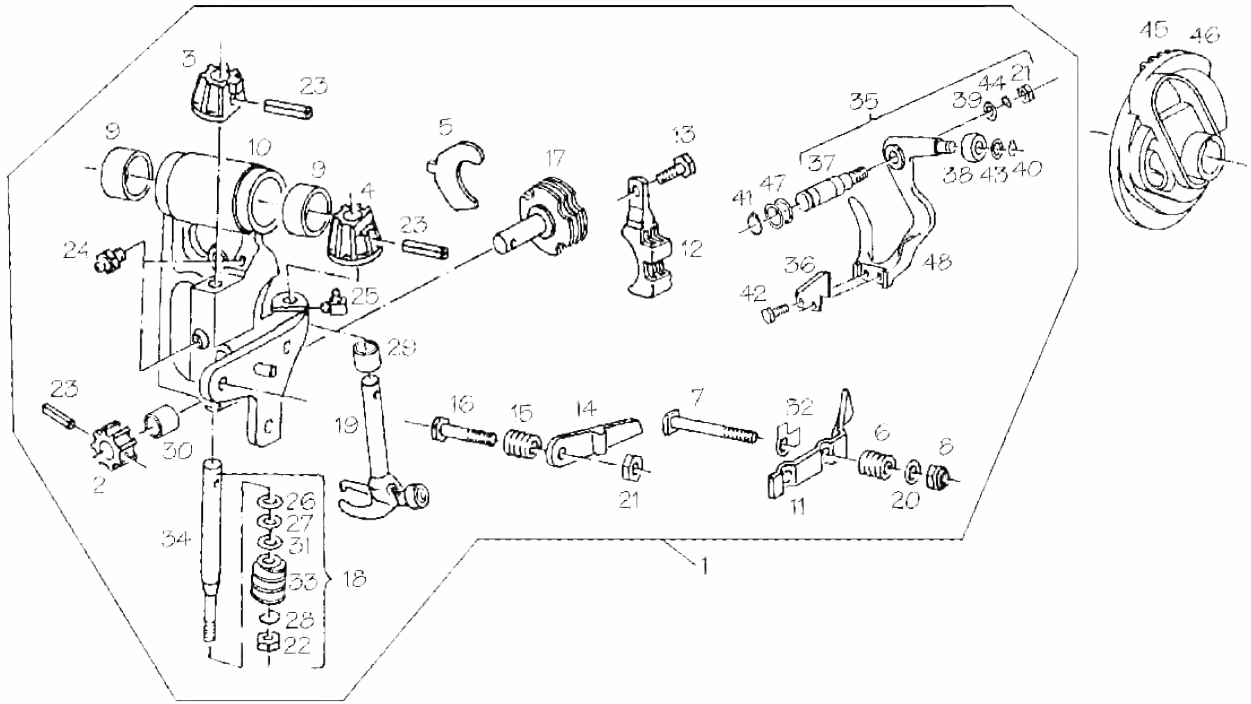
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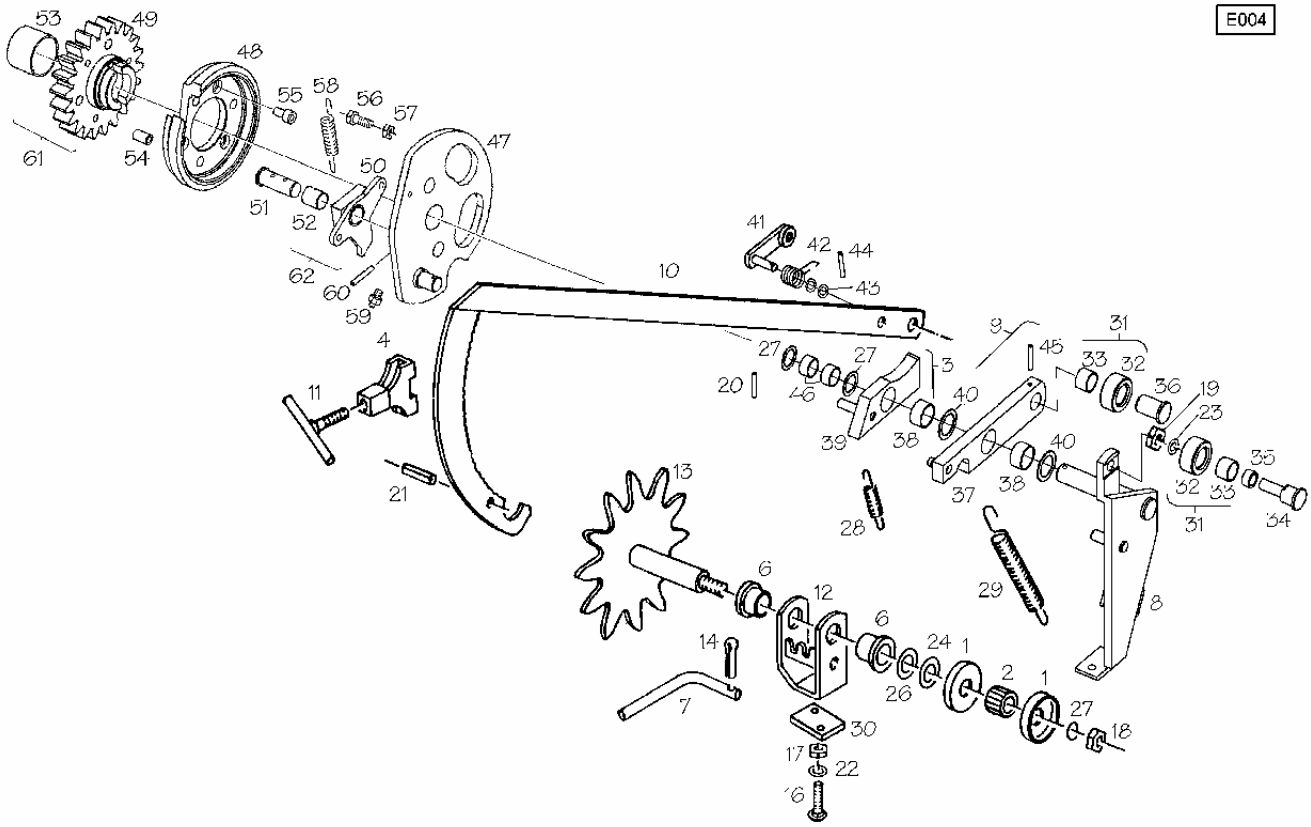
E003 TWINE KNOTTING ASSY - 10630024			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	KNOTTING APPARATUS	2	10630123
2	DRIVING PINION z=8	1	10250086
3	DRIVING PINION	1	10250087
4	DRIVING PINION	1	10250088
5	CLEANING DISC	2	10630124
6	COMPRESSION SPRING	1	10210057
7	SCREW/BOLT	1	10260703
8	LOCK NUT M10-8	1	10280207
9	GREASE BUSH	2	10300782
10	KNOTTER SUPPORT	2	10630125
11	JUNCTION PLATE	1	10630126
12	SUPPORT	1	10630127
13	HEX HEAD SCREW	1	10260704
14	TIPPING LEVER	1	10630128
15	COMPRESSION SPRING	1	10210058
16	HEX.HEAD SCREW	1	10260705
17	DRIVER	1	10630129
18	SPIRAL SHAFT	1	10630130
19	KNOTTER HOOK	1	10630131
20	WASHER 6.4	1	10270213
21	HEX. NUT M10-8	2	10280188
22	HEX. NUT	1	10280209
23	DOWEL PIN 5x22	3	10020187
24	GREASE NIPPLE St M8x1	2	10300783
25	GREASE NIPPLE St M8x1/90	1	10300784
26	SPACER 15x21x0.2	1	10410068
27	SPACER 15x21x0.5	4	10410069
28	SPRING WASHER Z 6.1	1	10270214
29	GREASE BUSH	1	10300785
30	GREASE BUSH	1	10300786
31	SPACER 15x21x1	2	10410070
32	SPACER 8.4	1	10410071
33	SPIRAL	1	10300787
34	SPIRAL SHAFT	1	10630132
35	LEVER	1	10630133
36	KNIFE	1	10300788
37	PIN	1	10020188
38	ROLLER	1	10300789
39	WASHER 10.5	1	10270215
40	CIRCLIP Z14	1	10390124
41	CIRCLIP Z19	1	10390125
42	HEX. HEAD SCREW M4x10-8.8	2	10260706
43	SPACER	2	10410072
44	SPRING WASHER Z 10.2	1	10270184
45	KNOTTER DISC	1	10300790
46	KNOTTER DISC	1	10300791
47	SPACER 20x25x0.2	1	10410073
47.1	SPACER 20x25x0.5	2	10410074
48	LEVER	1	10300792
49	KNOTTING APPARATUS COMPLETE	1	10630134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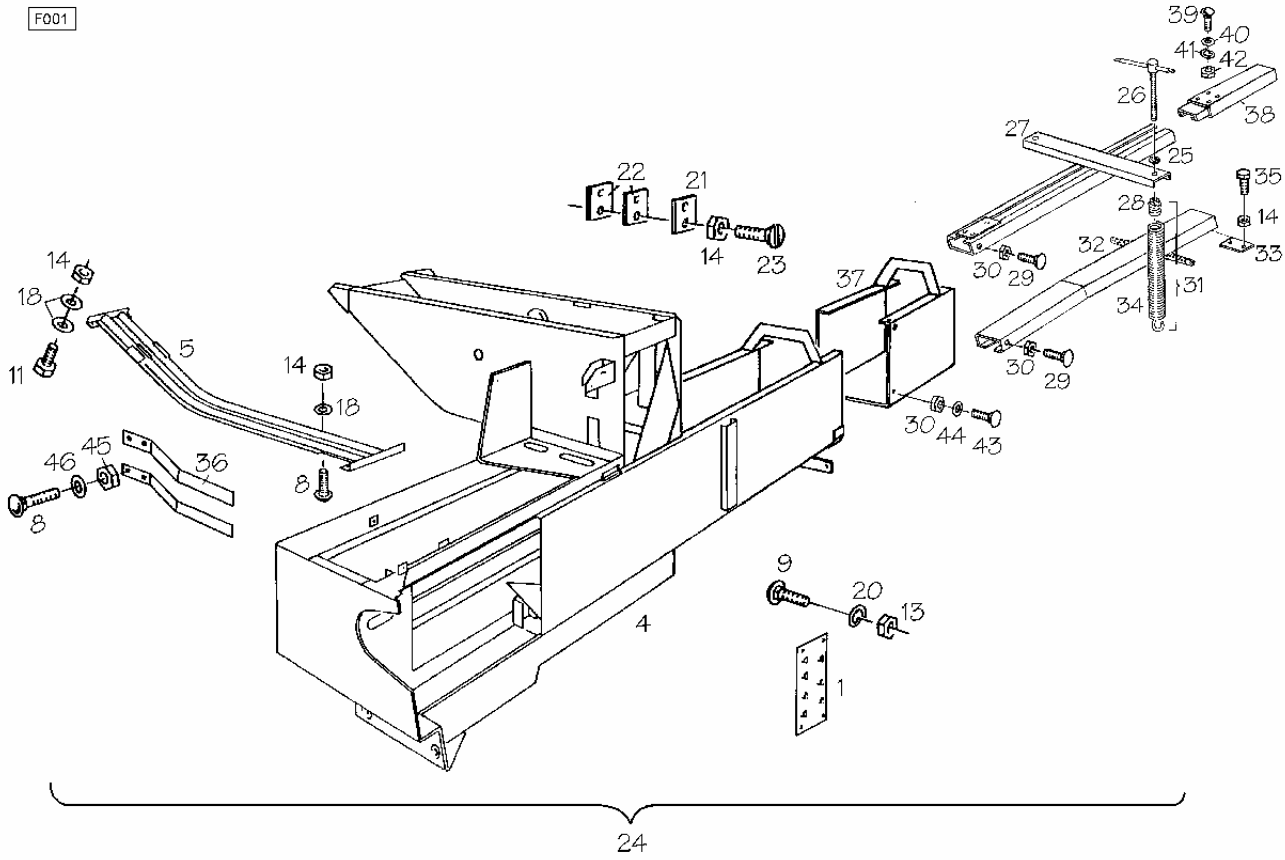
E004 ENGAGING AND DISENGAGING PARTS - 10630025			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	WASHER	2	10270216
2	CLAMP	1	10220068
3	CATCH	1	10630135
4	CLAMP	1	10220069
6	BEARING BUSH	2	10630101
7	LOCKING BOLT	1	10260707
8	CONTROL LEVER	1	10630136
9	LEVER	1	10630137
10	SLOTTED ARM	1	10630138
11	THUMB SCREW	1	10630139
12	SUPPORT	1	10630140
13	SHAFT	1	10630141
14	SPLIT PIN S-Zn 3.2x16	1	10020179
16	SAUCER HEAD SCREW M10x35-5.8	2	10260708
17	HEX. NUT M10-8	2	10280210
18	HEX.NUT M10LH-8	1	10280211
19	LOCK NUT R M12-8	1	10280212
20	DOWEL PIN 5x30	1	10020189
21	DOWEL PIN 6x26	1	10020190
22	WASHER 10.5	2	10270206
23	WASHER 13x28x2.0	1	10270217
24	WASHER 17x28x1.0	3	10270201
26	WASHER 17	2	10270218
27	WASHER 20x28x1.0	2	10270219
28	SPRING	1	10210059
29	TENSION SPRING	1	10210055
30	PLATE	1	10300793
31	ROLLER	2	10300794
32	ROLLER	2	10300795
33	BEARING BUSH 20x23x15	2	10630142
34	AXLE	1	10110033
35	BUSH	1	10630143
36	PIN	1	10020191
37	LOCKING ARM	1	10630144
38	BEARING BUSH 25x28x15	2	10630145
39	CATCH	1	10630146
40	WASHER 25x15x1.0	2	10270220
41	CONTROL LEVER	1	10630147
42	SPRING 2.5/26/21	1	10210060
43	WASHER 12.5x17x1	3	10270221
44	DOWEL PIN 4x20	1	10020192
45	DOWEL PIN 5x40	1	10020186
46	BEARING BUSH 20x23x20	2	10630148
47	SHIELD DISK	1	10630149
48	RATCHET-WHEEL	1	10630150
49	STEERING WHEEL Z=22	1	10250089
50	CATCH	1	10630151
51	PIN	1	10020193
52	BEARING BUSH 20x23x25	1	10630152
53	BEARING BUSH 50x55x40	1	10630153
54	DOWEL PIN 13x22	3	10020194
55	SCREW	3	10260709
56	HEX. HEAD SCREW M8x30-8.8	1	10260710
57	HEX.NUT M8-8	1	10280213
58	SPRING	1	10210059
59	GREASE NIPPLE M8x1/45 H	1	10300781
60	DOWEL PIN 6x40	1	10020195
61	CAM DISC	1	10630154
62	CATCH	1	10630155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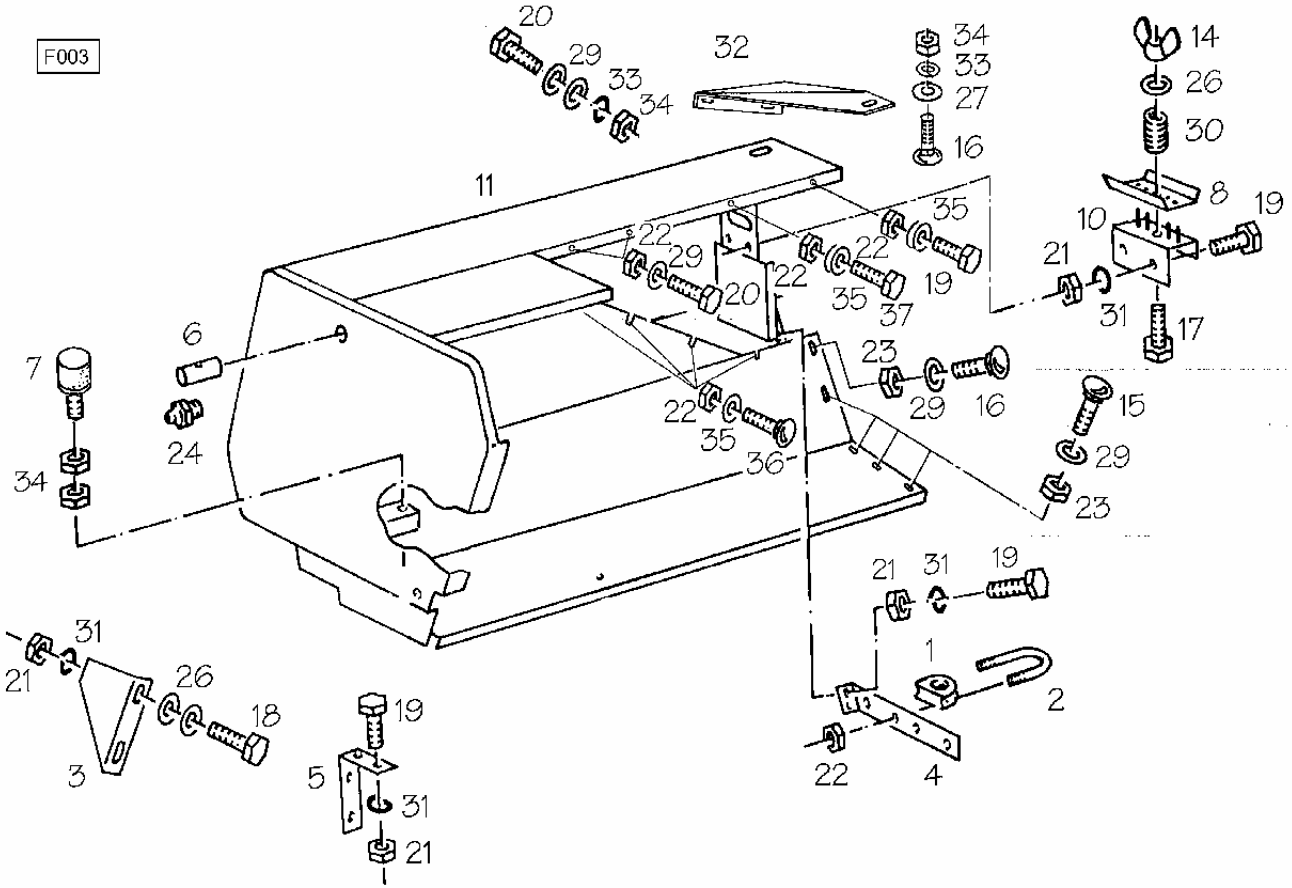
F001 PRESS CHAMBER - 10630026			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	COMB	2	10630156
4	TUNNEL	1	10630157
5	GUIDE SHEET	1	10630158
8	SAUCER HEAD SCREW M8x20-8.8	7	10260711
9	SAUCER HEAD SCREW M8x20	4	10260712
11	HEX. HEAD SCREW M8x25-8.8	3	10260690
13	HEX. NUT M8-8-B	8	10280214
14	LOCK NUT M8-8	10	10280206
18	WASHER 8.4x25x3.0	9	10270222
20	SPRING WASHER 8.2	8	10270223
21	THRUST PLATE	1	10300796
22	SHIM	1	10410075
22.1	SHIM	1	10410076
23	COUNTERSUNK SCREW M8x30	2	10260713
24	PRESS CHANNEL	1	10630159
25	WASHER	2	10270224
26	SPINDLE	2	10630160
27	RAIL	1	10630161
28	SPINDLE NUT	2	10280215
29	SAUCER HEAD SCREW M12	4	10260714
30	LOCK NUT M12-8	4	10280193
31	TENSION SPRING	2	10210061
32	PULL RAIL	1	10630162
33	SUPPORT PLATE	1	10630163
34	TENSION SPRING	2	10210062
35	HEX. HEAD SCREW M8x20-8.8	2	10260715
36	SPRING	2	10210063
37	TUNNEL EXTENSION	1	10630164
38	PRESS RAIL EXT.	1	10630165
39	TRUSS-HEAD SCREW M10x25 5.8	4	10260716
40	WASHER/DISC/PLATE 10.5	4	10270225
41	SPRING WASHER 10.2	4	10270226
42	HEX. NUT M10-8-B	4	10280216
43	TRUSS-HEAD SCREW M12x25 5.8	8	10260717
44	WASHER 28x13x3	8	10270227
45	LOCK NUT R M8-8	4	10280206
46	WASHER 8.5	4	10270228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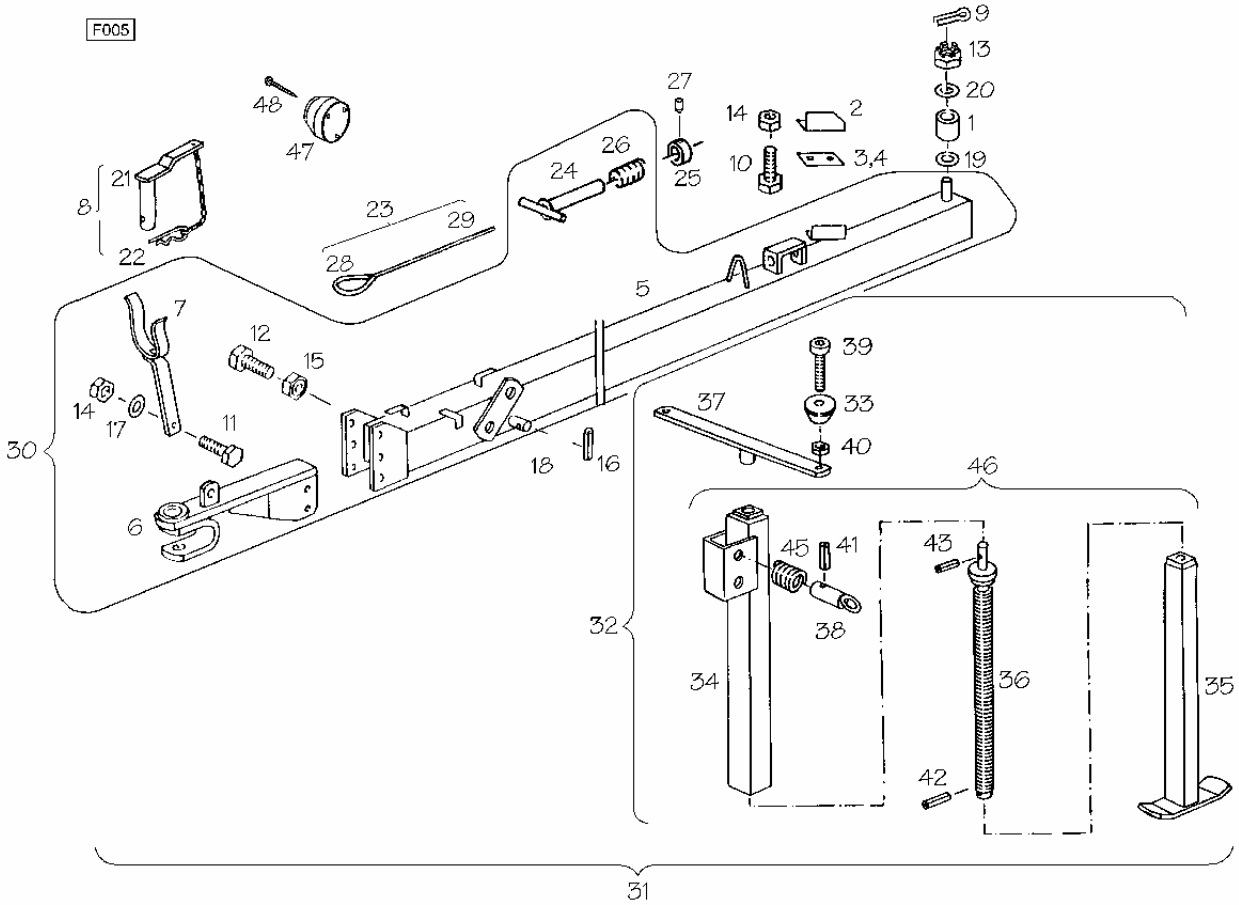
F003 FEEDING TABLE - 10630027			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	PORCELAIN RING	1	10300776
2	SCREW	1	10260697
3	CHAIN GUARD	1	10630166
4	SUPPORT	1	10630167
5	SUPPORT	1	10630168
6	BEARING BUSH	1	10630169
7	RUBBER BLOCK	1	10630170
8	THRUST SHEET	1	10630171
10	TWINE TENSIONER	1	10630172
11	CHAMBER	1	10630173
14	WINGED NUT M6	1	10280217
15	TRUSS-HEAD SCREW M8x20 5.8	4	10260718
16	TRUSS-HEAD SCREW M8x25 5.8	2	10260719
17	HEX. HEAD SCREW M6x55-8.8	1	10260720
18	HEX. HEAD SCREW M6x12 8.8	2	10260721
19	HEX. HEAD SCREW M6x16 8.8	7	10260722
20	HEX. HEAD SCREW M8x20 8.8	3	10260723
21	HEX.NUT M6-8	8	10280208
22	LOCK NUT M6-8	8	10280205
23	LOCK NUT M8-8	7	10280206
24	GREASE NIPPLE St M8x1 /45	1	10300781
26	WASHER/DISC/PLATE 6.4	5	10270229
27	WASHER 8.4x25x3.0	1	10270222
29	WASHER 8.4	8	10270230
30	COMPRESSION SPRING	1	10210064
31	SPRING WASHER 6.2	8	10270231
32	SHEET	1	10300797
33	SPRING WASHER 8.2	2	10270232
34	HEX. NUT M8-8	4	10280213
35	WASHER 6.4x18x2.0	8	10270233
36	TRUSS-HEAD SCREW M8x16 5.8	4	10260724
37	HEX. HEAD SCREW M6x20 8.8	1	10260725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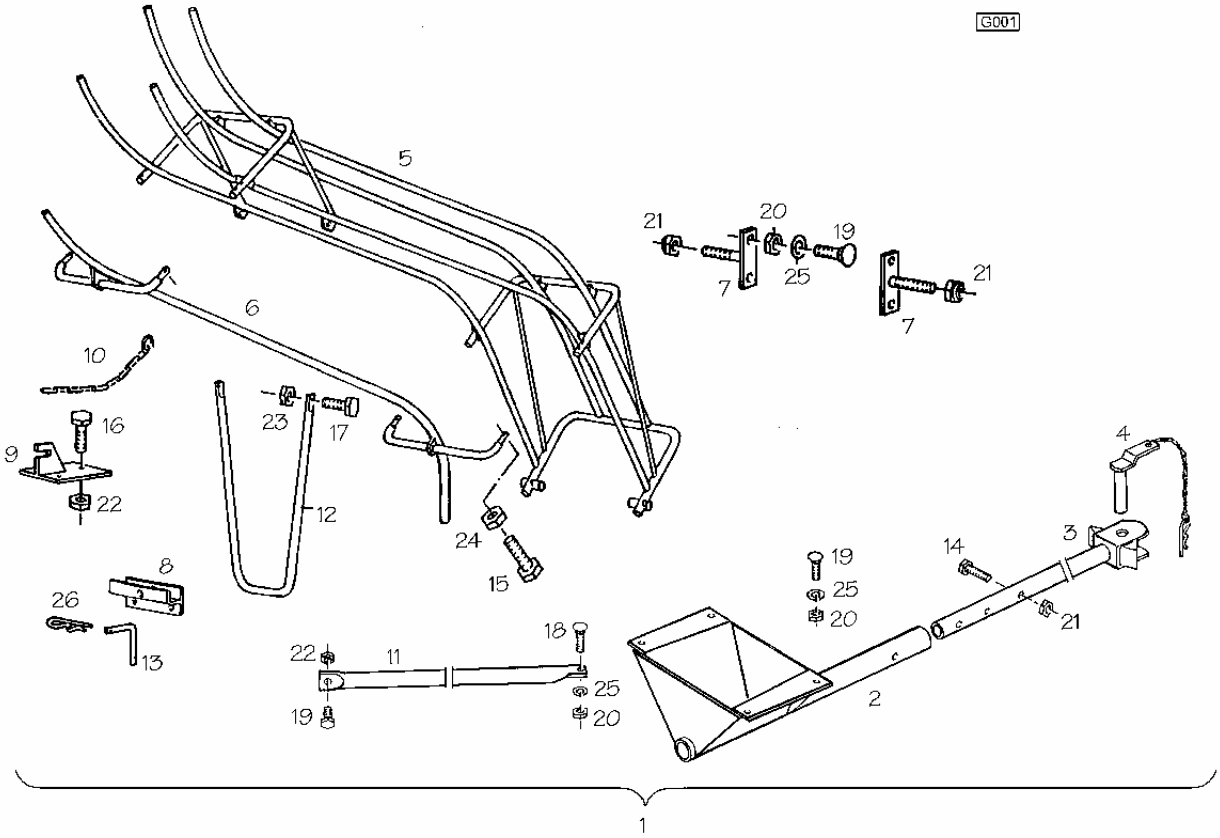
F005 DRAWBAR - 10630028			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	BUSH	1	10630174
2	PRESSURE BAR	1	10630175
3	INTERMEDIATE SHEET	1	10630176
4	INTERMEDIATE SHEET	1	10630177
5	DRAWBAR	1	10630178
6	PULL PIECE	1	10630179
7	SUPPORT	1	10630180
8	FIXING PIN	1	10020196
9	SPLIT PIN S-Zn 6.3x55	1	10020197
10	HEX. HEAD SCREW M12x30-8.8	2	10260729
11	HEX. HEAD SCREW M12x35-8.8	1	10260687
12	HEX.BOLT M16x55-8.8	4	10260730
13	CASTELLATED NUT M30x2-8	1	10280218
14	LOCK NUT M12-8	3	10280193
15	LOCK NUT M16-8	4	10280187
16	TIGHTENING PIN 10x55	1	10020198
17	WASHER 24x13x2.5	1	10270234
18	WASHER 50x36x1.5	2	10270235
19	WASHER/DISC/PLATE 48x30x1.5	1	10270236
20	WASHER 30.5	1	10270237
21	CHAIN	1	10140026
22	SAFEN SPRING	1	10210065
23	PULL ROPE	1	10630181
24	PIN	1	10020199
25	ADJUSTING RING	1	10460015
26	COMPRESSION SPRING	1	10210066
27	SET SCREW M8x12	1	10260731
28	GUARD	1	10300798
29	CABLE	1	10300799
30	DRAUGHT BAR	1	10630182
31	DRAUGHT BAR	1	10630183
32	SUPPORT	1	10630184
33	BALL	2	10300800
34	OUTER TUBE	1	10630185
35	INNER TUBE	1	10630186
36	SPINDLE	1	10630187
37	CRANK	1	10630188
38	PIN	1	10020200
39	SCREW M12x45-8.8	2	10260732
40	HEX. NUT M12-8	2	10280219
41	DOWEL PIN 6x45	1	10020201
42	COLLET CHUCK 6x24	1	10300801
43	DOWEL PIN 8x30	1	10020169
44	0	0	
45	COMPRESSION SPRING	1	10210067
46	SUPPORT	1	10630189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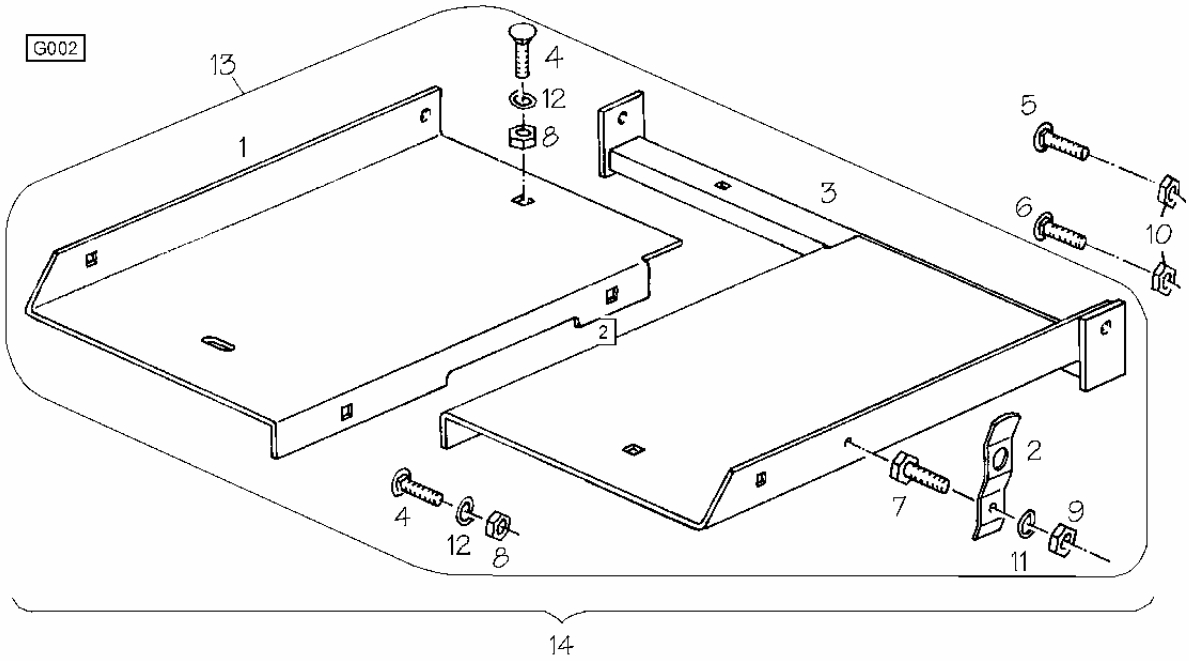
G001 BALE CHUTE-EQUIPMENT ACCESSORIES - 10630029			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	BALE CHUTE		10630190
2	TRAILER BRACKET	1	10630191
3	TRACTION JAW	1	10630192
4	FIXING PIN	1	10630193
5	STRAW RAIL	1	10630194
6	YOKE	1	10630195
7	PLATE	2	10630196
8	SUPPORT	1	10630197
9	HOOK	1	10630198
10	CHAIN	1	10140027
11	SUPPORTING TUBE	1	10630199
12	YOKE	1	10630200
13	LATCH/CATCH	1	10300802
14	HEX. HEAD SCREW M16X110-8.8	1	10260733
15	HEX. HEAD SCREW M6x40-8.8	4	10260734
16	HEX. HEAD SCREW M12x25-8	3	10260735
17	HEX. HEAD SCREW M10x35-8	2	10260736
18	TRUSS-HEAD SCREW M12x45-8.8	1	10260737
19	TRUSS-HEAD SCREW M12x35-8.8	8	10260738
20	NUT M12-8	8	10280198
21	LOCK NUT RM16-8	3	10280220
22	LOCK NUT RM12-8	4	10280221
23	LOCK NUT RM10-8	2	10280222
24	LOCK NUT RM6-8	4	10280223
25	SPRING WASHER 12.2	8	10270185
26	SAFEN-SPRING 3x70	1	10210068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G002 BALE DISCHARGE PLATE - 10630030			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	SUPPORT	1	10630201
2	FLAT SPRING	1	10630202
3	SUPPORT	1	10630203
4	TRUSS-HEAD SCREW M8x16-5.8	3	10260739
5	SAUCER HEAD SCREW M12	1	10260740
6	SAUCER HEAD SCREW M12x30-8.8	2	10260741
7	HEX. HEAD SCREW M6x16-8.8	1	10260742
8	HEX. NUT M8-8	3	10280191
9	LOCK NUT M6-8	1	10280205
10	LOCK NUT RM12-8	3	10280212
11	WASHER 6.4x18x2	1	10270238
12	SPRING WASHER 8.2	3	10270232
13	SUPPORT - FRONT	1	10630204
14	SUPPORT	1	10630205

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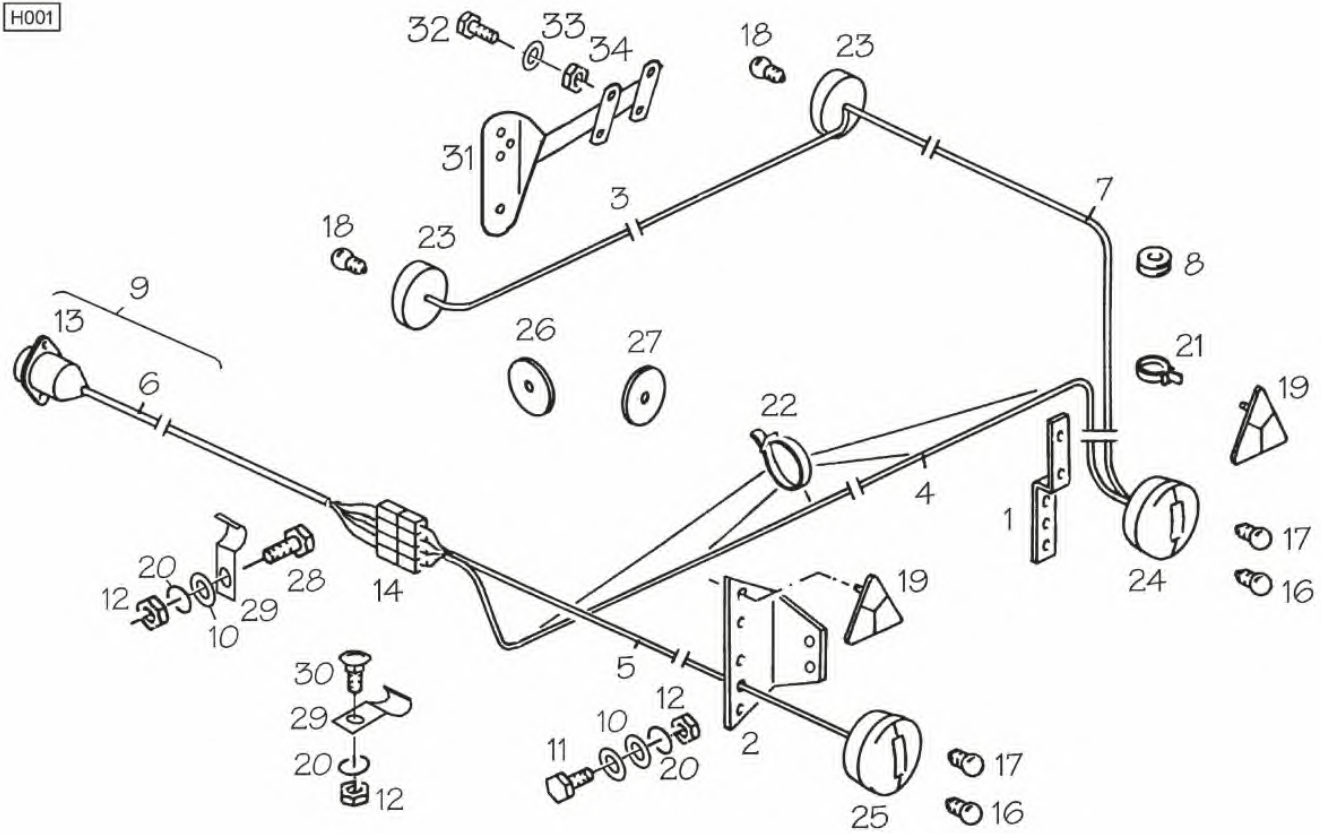
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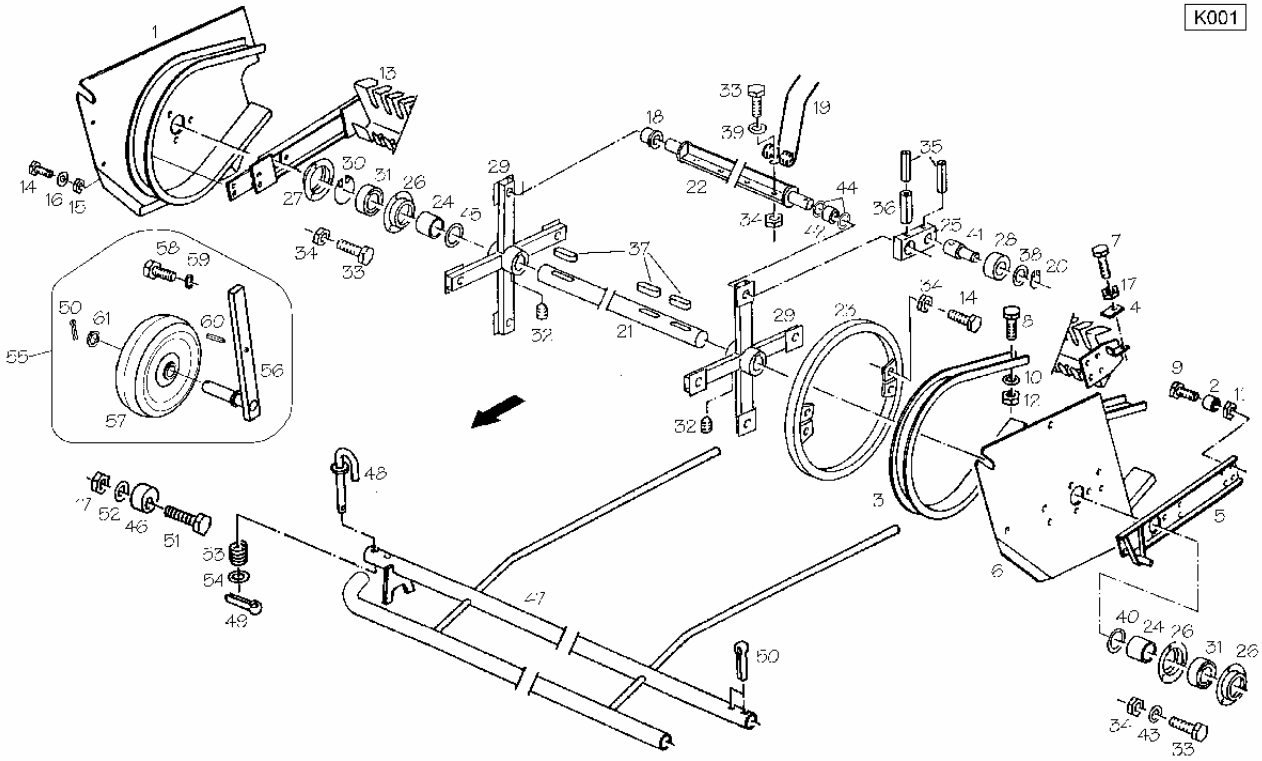
H001 LIGHTING EQUIPMENT- 10630311			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	SUPPORT	1	10630206
2	SUPPORT	1	10630207
3	CABLE	1	10300803
4	CABLE	1	10300804
5	CABLE	1	10300805
6	CABLE	1	10300806
7	CABLE	1	10300807
8	RUBBER SOCKET A10x.5	1	10300808
9	CABLE	1	10300809
10	WASHER 6.4	1	10270239
11	HEX. HEAD SCREW Z M6x20-5.6	3	10260743
12	HEX.NUT M6 8	2	10280224
13	PLUG SOCKET 12N	6	10300810
14	CABLE-CONNECTOR	1	10300811
16	BULB 12V/5W C11-SV8.5/8	4	10300812
17	BULB 12V 21W Ba15s	4	10300813
18	TUBE LAMP 12V 5W Ba15s	2	10300814
19	REAR-REFLECTOR UOIIIAc-75	2	10300815
20	SPRING WASHER 6.1	6	10270211
21	CABLE BINDER 150x5	3	10300816
22	CABLE CLAMP 400x5	5	10220070
23	SIDE LAMP E92D	2	10300817
24	LAMP	1	10300818
25	LAMP	1	10300819
26	REAR REFLECTOR UOIŜ	4	10300820
27	REAR REFLECTOR UOIb	4	10300821
28	HEX. HEAD SCREW M6x16-5.8	1	10260744
29	SUPPORT	4	10630208
30	HEX. HEAD SCREW Z M6x16-5.6	3	10260745
31	SUPPORT	1	10630209
32	HEX. HEAD SCREW M8x16-8.8	1	10260746
33	WASHER 8.4	4	10270200
34	LOCK NUT M8-8	4	10280206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K001 PICK-UP DEVICE - 10630031			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	SIDEWALL	1	10630210
2	TUBE	4	10630211
3	SLIDING SHEET	21	10630212
4	CLIP	2	10300822
5	SUPPORT	1	10630213
6	SIDE MEMBER	1	10630214
7	HEX. HEAD SCREWM10x70-10.9	2	10260747
8	HEX. HEAD SCREWM6x16-8.8	92	10260748
9	HEX. HEAD SCREWM10x40-8.8	4	10260749
10	LOCKNUT M6-8	92	10280225
11	LOCKNUT M10-8	4	10280226
12	WASHER 6.6	4	10270240
13	FRAME	1	10630215
14	HEX. HEAD SCREWM8x30-8.8	6	10260750
15	SPRING WASHER 8.2	2	10270232
16	WASHER 8.4	2	10270200
17	LOCKNUT M10-10	3	10280227
18	BUSH	4	10630216
19	PU TINE	44	10630217
20	CIRCLIP Z12	4	10390126
21	SHAFT	1	10630218
22	FIXING ANGLE	4	10630219
23	CAM PLATE	1	10630220
24	SPACER	2	10410077
25	ARM	4	10300823
26	TERMINAL RING	3	10460016
27	TERMINAL RING	1	10460017
28	ROLLER	4	10300824
29	SUPPORT	2	10630221
30	CIRCLIP Z30	1	10390127
31	GR. BALL BEARING 6206 2RS	2	10050241
32	THREADED PIN M10x16	2	10020202
33	HEX. HEAD SCREWM8x25-8.8	50	10260690
34	LOCKNUT M8-8	54	10280206
35	DOWEL PIN 5x40	8	10020186
36	DOWEL PIN 8x40	4	10020203
37	KEY A8x7x36	3	10300825
38	SPACER 12.5x17x1	4	10410078
39	WASHER	44	10270191
40	SPACER 30x42x1	1	10410079
41	PIN	4	10020204
42	BUSH	4	10630222
43	SPACER 9x18x2	3	10410080
44	SPACER 26x40x2	8	10410081
45	SPACER 30x42x2.5	1	10410062
46	ROLLER	1	10300826
47	RAKE	1	10300827
48	CATCH	1	10630223
49	SPLIT PIN S-Zn 3.2x16	1	10020205
50	SPLIT PIN S-Zn 6.3x45	3	10020206
51	HEX. HEAD SCREWM10x35-10.9	1	10260751
52	WASHER 10.5	1	10270215
53	COMPRESSION-SPRING	1	10210069
54	WASHER 10.5x40x3	1	10270241
55	WHEEL	1	10420008
56	WHEEL ARM	1	10300828
57	WHEEL 280x90	1	10420009
58	HEX. HEAD SCREW M12x45-8.8	2	10260752
59	SPRING WASHER 12.2	2	10270242
60	DOWEL PIN 5x36	1	10020207
61	WASHER 30	1	10270243

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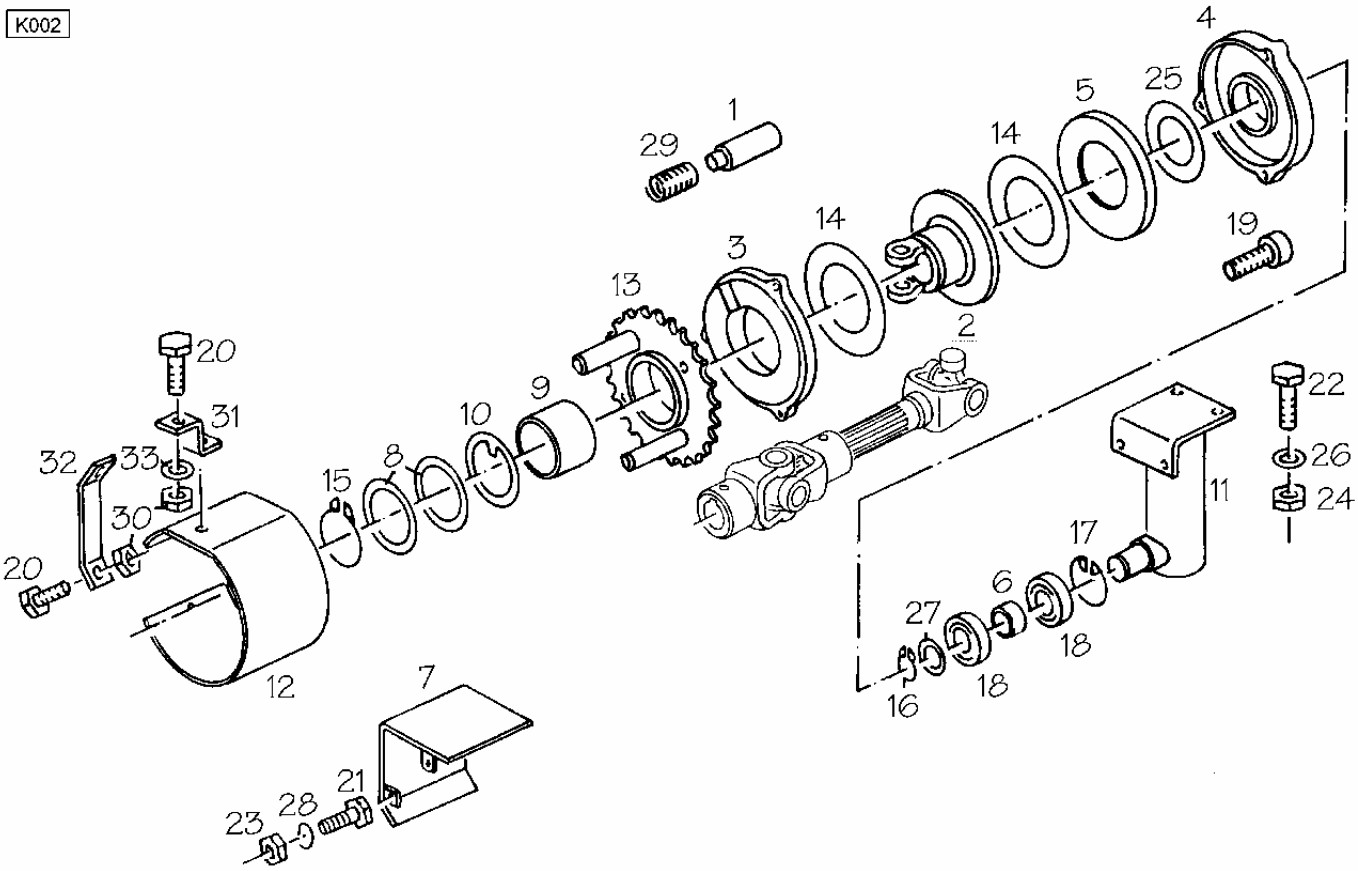
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K002 PICK-UP DEVICE DRIVE SAFETY CLUTCH - 10630032			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	PIN	2	10020208
2	UNIV. PROP SHAFT	1	10630224
3	HOUSING	1	10630225
4	THRUST PLATE	1	10630226
5	THRUST RING	1	10460018
6	SPACER	1	10410082
7	GUARD	1	10300829
8	WASHER	1	10270244
9	BEARING BUSH 75x80x30	1	10630227
10	LOCKING PLATE	1	10630228
11	ARM	1	10300830
12	GUARD	1	10300831
13	SPROCKET Z=42	1	10170033
14	CLUTCH LINING	2	10410083
15	CIRCLIP Z 75	1	10390128
16	CIRCLIP Z 25x2	1	10390129
17	CIRCLIP W 47	1	10390130
18	GR. BALL BEARING 6005 2RS	2	10050248
19	SCREW M8x30-8.8	3	10260753
20	HEX. HEAD SCREW M8x20-8.8	4	10260715
21	HEX. HEAD SCREW M6x16-8.8	2	10260722
22	HEX. HEAD SCREW M10x35-8.8	4	10260736
23	LOCK NUT M6-8	2	10280205
24	LOCK NUT M10-8	4	10280207
25	CUP SPRING	1	10210070
26	WASHER 10.5	4	10270245
27	SPACER 25x35x2	1	10410084
28	SPRING WASHER 6.6	2	10270246
29	COMPRESSION SPRING	2	10210071
30	LOCK NUT M8-8	5	10280206
31	SUPPORT	1	10630229
32	SUPPORT	1	10630230
33	WASHER 9x18x2	3	10270247

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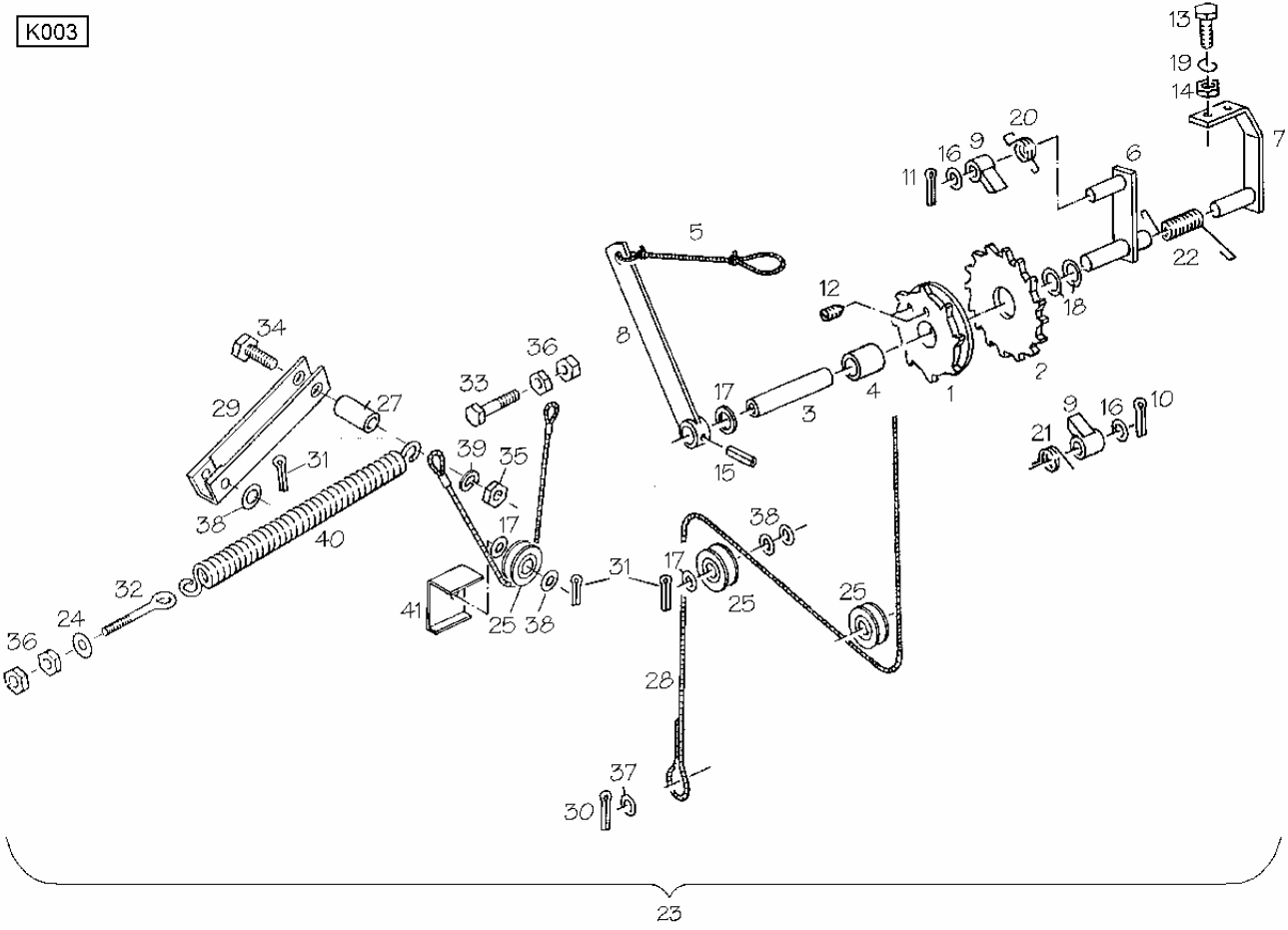
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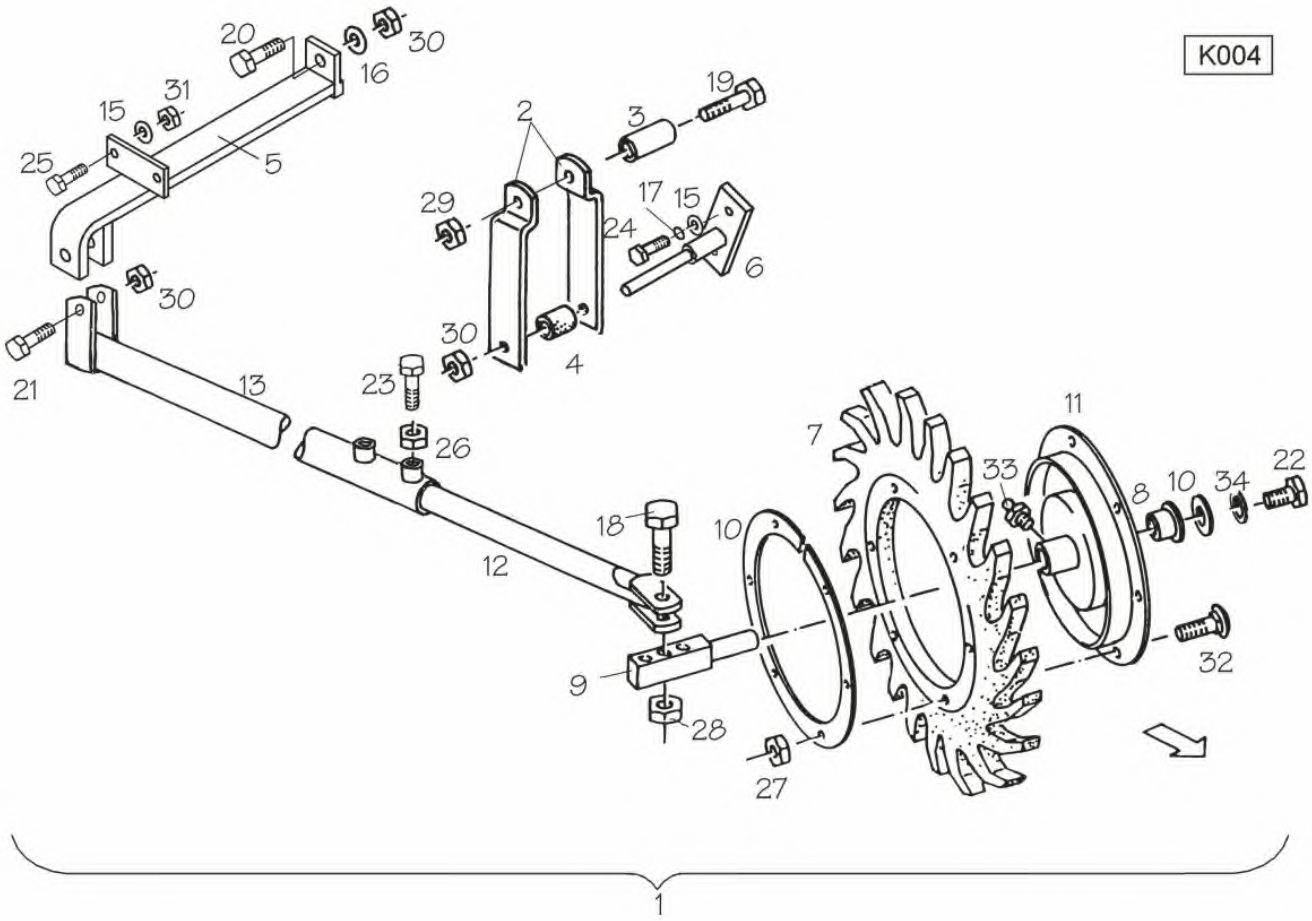
K003 PICK-UP LIFT - 10630035			
Sr. No.	**PICK- UP LIFT**	**No.s**	**PART CODE**
1	CABLE DRUM	1	10630231
2	TOOTHED WHEEL	1	10170034
3	BUSH 20.3x25.1x61	1	10630232
4	BUSH 31.9x36.7x24	1	10630233
5	PULL ROPE	1	10630234
6	PLATE	1	10300832
7	SUPPORT	1	10630235
8	LEVER	1	10630236
9	CATCH	2	10630237
10	SPLIT PIN S-Zn 3.2x20	1	10020209
11	SPLIT PIN S-Zn 4x20	1	10020210
12	THREADED PIN M8x8 8.8	4	10020211
13	HEX. HEAD SCREW M8x25-8.8	2	10260690
14	HEX. NUT M8	2	10280228
15	DOWEL PIN 8x36	1	10020212
16	WASHER 13x28x2.0	2	10270217
17	WASHER 21x32x1.0	3	10270207
18	DISC 21x42x1.5	4	10300833
19	SPRING WASHER Z 8.2 Fe/Zn9	2	10270248
20	TORSION SPRING	1	10210072
21	SPRING	1	10210073
22	SPRING	1	10210074
23	PICK-UP LIFT	1	10630238
24	DOMED WASHER 13	1	10270249
25	ROLLER	3	10300834
26	WIRE CABLE	1	10300835
27	TUBE	1	10300836
28	CABLE	1	10300837
29	LEVER	1	10630239
30	SPLIT PIN S-Zn 4x25	1	10020180
31	SPLIT PIN S-Zn 5x32	4	10020213
32	EYE BOLT M12x100	1	10260754
33	HEX HEAD SCREW M12x80-8.8	1	10260755
34	BOLT M10x80-8.8	1	10260756
35	HEX. NUT M10	1	10280229
36	NUT M12	4	10280194
37	WASHER	1	10270250
38	WASHER 21x32x2.0	8	10270251
39	SPRING WASHER Z 10.2	1	10270252
40	TENSION-SPRING	2	10210075
41	PROT. SHEET	1	10300838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K004 WINDROW FORMING DEVICE - 10630033			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	WINDROW FORMING DEVICE	1	10630240
2	GUIDE	2	10630241
3	TUBE	1	10630242
4	SILENT BLOCK	1	10630243
5	SUPPORT	1	10630244
6	SUPPORT	1	10630245
7	RUBBER DISC Z=24	1	10630246
8	BUSH 23x32x23	2	10630247
9	SQUARE PIN	1	10020214
10	SEGMENT	3	10300839
11	WHEEL FLANGE	1	10230040
12	SUPPORT TUBE	1	10300840
13	GUIDE TUBE	1	10630248
14	WASHER 10.5x40x3	1	10270253
15	WASHER 8.4	4	10270200
16	WASHER 13	1	10270187
17	SPRING WASHER Z 8.2	2	10270192
18	HEX. HEAD SCREW M16x65-10.9	1	10260757
19	HEX. HEAD SCREW M10x125-8.8	1	10260758
20	HEX. HEAD SCREW M12x65-8.8	1	10260759
21	HEX. HEAD SCREW M12x80-8.8	1	10260760
22	HEX. HEAD SCREW M10x25-8.8	1	10260761
23	HEX. HEAD SCREW M12x35-10.9	2	10260687
24	HEX. HEAD SCREW M8x30-8.8	2	10260667
25	HEX. HEAD SCREW M8x25-8.8	2	10260690
26	LOCK NUT M12-8	2	10280230
27	LOCK NUT M8-8	6	10280206
28	LOCK NUT M16-8	1	10280187
29	LOCK NUT M10-8	1	10280207
30	LOCK NUT M12-8	3	10280193
31	LOCK NUT M8-8	2	10280206
32	SCREW M8x40	6	10260762
33	GREASE NIPPLE M8x1	1	10300757
34	SPRING WASHER Z 10.2	2	10270226

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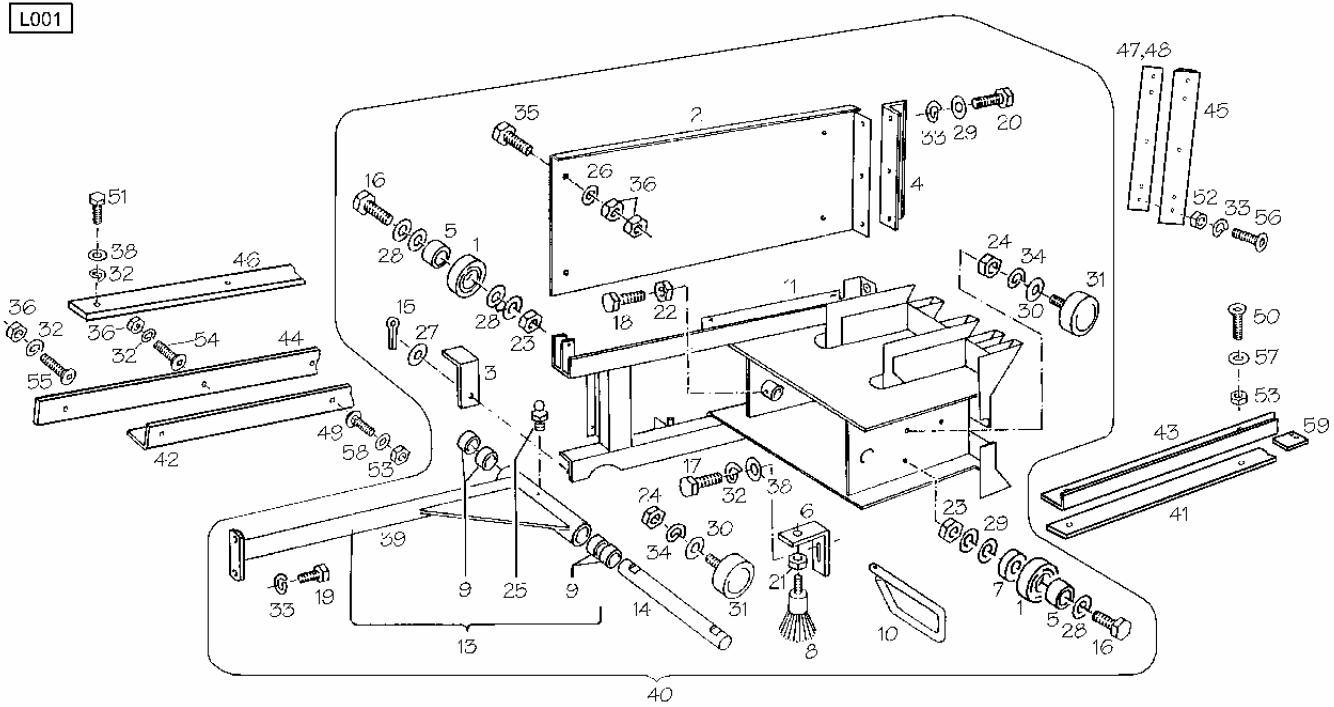
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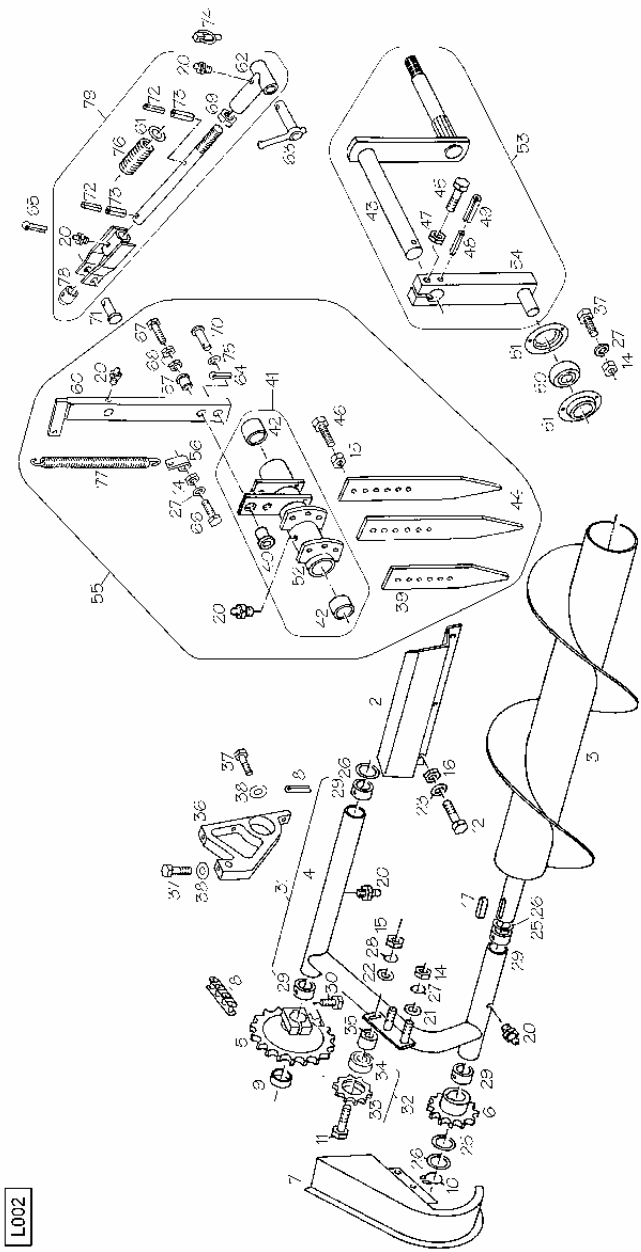
L001 PRESS PISTON - 10630034			
Sr. No.	DESCRIPTION	No.s	PART CODE
1	BEARING LR202RRU	2	10050249
2	GUARD	1	10630249
3	FIXING ANGLE	1	10300841
4	KNIFE	1	10300842
5	BUSH	2	10630250
6	SUPPORT	1	10630251
7	SPACER	1	10410085
8	BRUSH	4	10630013
9	BUSH	4	10630252
10	YOKE	1	10300843
11	PLUNGER	1	10300844
13	FIXING BAR	1	10300845
14	CONNECTING PIN	1	10020215
15	SPLIT PIN S-Zn-3.2x16	1	10020205
16	HEX. BOLT M12x55-8.8	1	10260679
17	HEX. HEAD SCREW M8x16-8.8	1	10260684
18	HEX. HEAD SCREW M10x30-8.8	2	10260669
19	HEX. HEAD SCREW M12x30-8.8	2	10260670
20	HEX. HEAD SCREW M12x40-8.8	3	10260685
21	HEX. NUT M6-6	8	10280231
22	HEX. NUT M10-8	2	10280188
23	LOCK NUT M12-8	2	10280193
24	HEX NUT M16x1.5-10	8	10280232
25	GREASE NIPPLE H M8x1	1	10300757
26	WASHER/DISC/PLATE 22x9x3	8	10270254
27	WASHER 21x11x2	1	10270255
28	WASHER 26x12.5x2	5	10270256
29	WASHER 28x13x3	5	10270227
30	WASHER 34x17x3	8	10270257
31	ROLLER	8	10630014
32	SPRING WASHER 8.2	10	10270232
33	SPRING WASHER 12.2	8	10270196
34	SPRING WASHER 16.3	8	10270258
35	HEX. HEAD SCREW M8x30-8.8	4	10260677
36	HEX. NUT M8-8	13	10280191
37	HEX. HEAD SCREW M12x50-8.8	1	10260763
38	WASHER 8.4	5	10270200
39	CONNECTING-ROD	1	10630253
40	PRESS PISTON	1	10630254
41	SHIM	1	10410086
42	RAIL	1	10630255
43	RAIL	1	10630256
44	GUIDE PIECE	1	10630257
45	KNIFE	1	10630015
46	RAIL	1	10630258
47	SHIM	1	10410087
48	SHIM	1	10410088
49	SAUCER HEAD SCREW ZM10x35-8.8	5	10260708
50	COUNTER SUNK SCREW M10x30-8.8	7	10260764
51	HEX. HEAD SCREW M8x12-8.8	4	10260765
52	NUT M12-8	3	10280194
53	LOCK NUT M10	12	10280233
54	COUNTER SUNK M8x25-8.8	4	10260766
55	COUNTER SUNK SCREW M8x30-8.8	1	10260713
56	COUNTER SUNK SCREW M12x35-8.8	3	10260767
57	WASHER A11	7	10270259
58	WASHER 11x30x5	5	10270202
59	SPACER PLATE	1	10300846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L002 FEEDER - 10630036			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
2	ANTI-WRAPPING DEV.	1	10630259
3	AUGER	1	10470007
4	SWIVEL ARM	1	10300847
5	CHAIN-WHEEL	1	10170035
6	SPROCKET	1	10170036
7	GUARD	1	10630260
8	SPLIT PIN S-Zn 6.3x40	1	10020216
9	CAP	1	10300848
10	CIRCLIP Z30	1	10390117
11	HEX.BOLT M12x60 8.8	1	10260768
12	HEX. HEAD SCREW M6x16 8.8	3	10260722
14	HEX. NUT M8 8	6	10280213
15	NUT M12 8	7	10280192
16	LOCK NUT M6 8	3	10280205
17	KEY B8x7x32	2	10300759
18	CHAIN 12B (68 ogniw) PS	1	10140028
20	GREASE NIPPLE St M8x1	6	10300757
21	WASHER 8.4	2	10270230
22	WASHER 13x28x2.0	3	10270217
23	WASHER 6.5	6	10270210
25	SPACER 30x42x1.0	1	10410079
26	SPACER 30x42x2.5	7	10410062
27	SPRING WASHER Z 8.2	10	10270223
28	SPRING WASHER Z 12.2	1	10270199
29	ADJUSTING RING	4	10300849
30	HEX. HEAD SCREW M12x45	1	10260732
31	ARM	1	10630261
32	CHAIN-WHEEL	1	10170037
33	CHAIN-WHEEL Z=11	1	10170038
34	BEARING 6201 2RS-C3	1	10050239
35	BUSH	1	10630262
36	BEARING	1	10050250
37	HEX. HEAD SCREW M8x20-8.8	7	10260715
38	WASHER 8.5	4	10270228
39	AUGER TINE	1	10630263
40	BUSH	1	10630264
41	BEARING	1	10050251
42	BEARING BUSH	2	10630265
43	ARM	1	10630266
44	AUGER TINE	2	10630267

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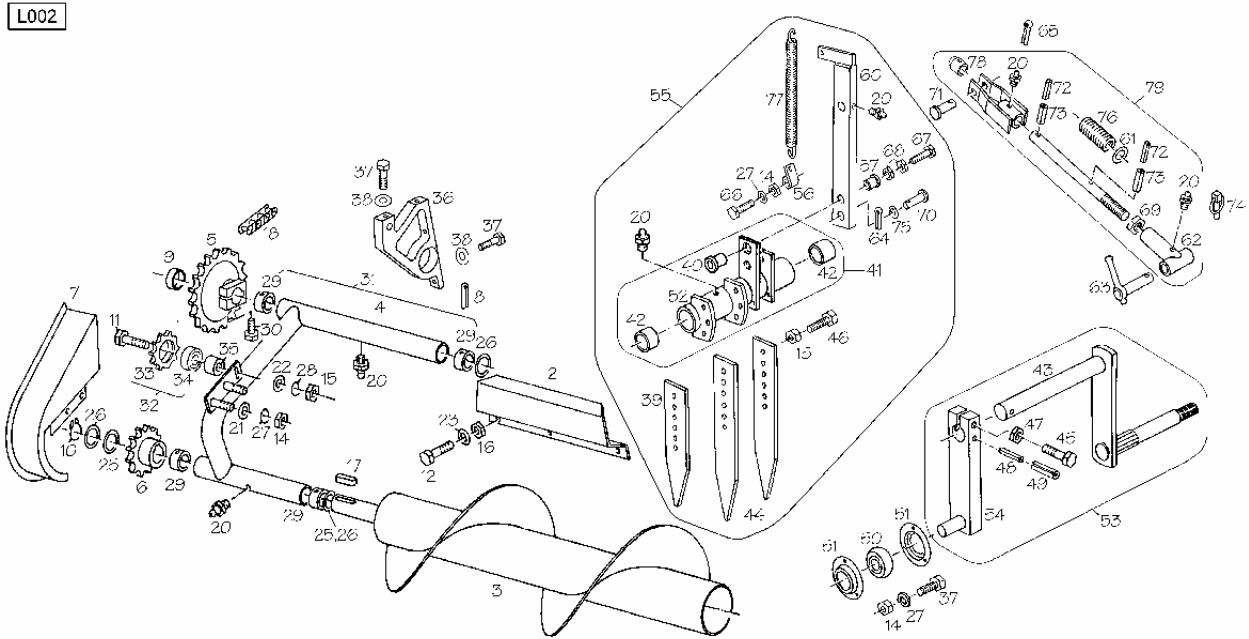
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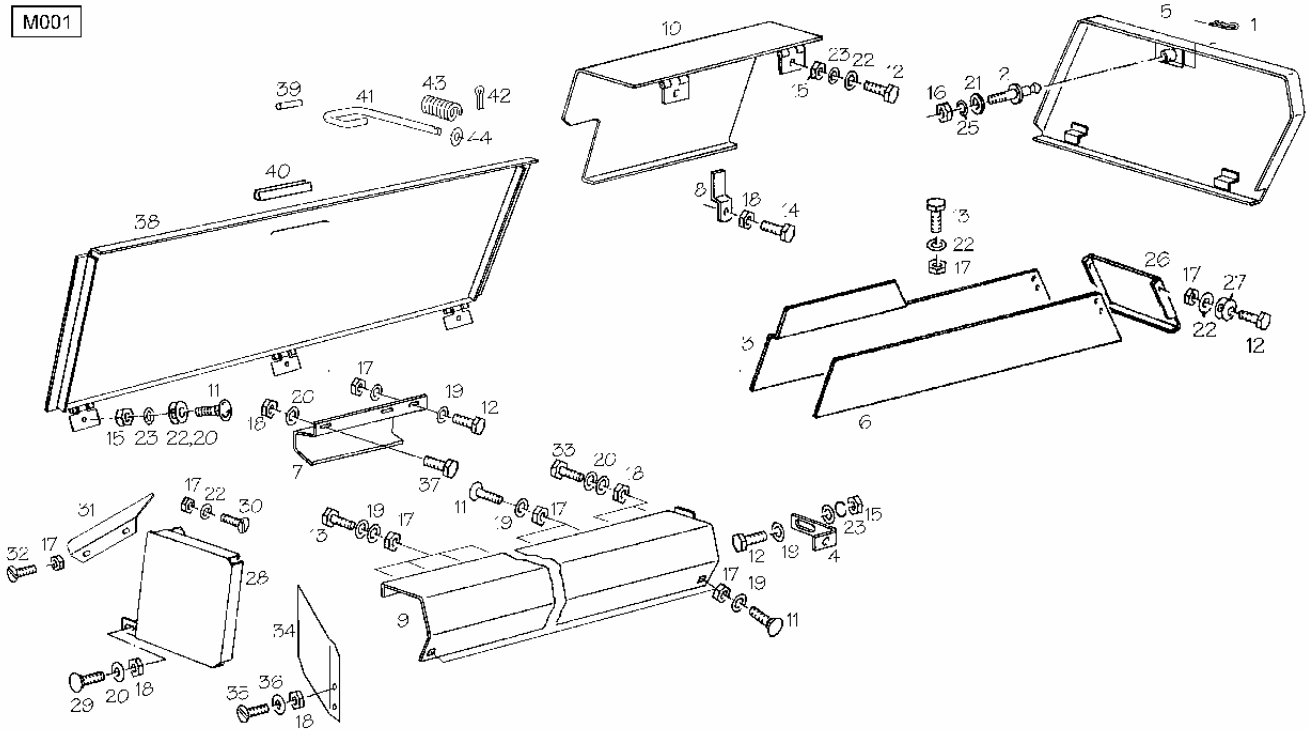
L002 FEEDER - 10630036			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
45	HEX. HEAD SCREW M12x75-8.8	1	10260680
46	VENT PLUG M12	6	10630268
47	LOCK NUT M12 8	1	10280196
48	DOWEL PIN 5x60	1	10020217
49	DOWEL PIN 8x60	1	10020218
50	BEARING D205	1	10050252
51	BEARING FLANGE P205	2	10230041
52	BEARING	1	10050253
53	CRANK-WEB	1	10300850
54	CRANK-WEB ARM	1	10300851
55	FEEDING FORK	1	10630269
56	CLAMP PIECE	1	10630270
57	BUSH	1	10630271
58	ROD	1	10630272
59	SUPPORT	1	10630273
60	ROD	1	10630274
61	WASHER 25	1	10270260
62	HUB	1	10090064
63	SAFETY PIN	1	10020219
64	SPLIT PIN S-Zn 4x25	1	10020180
65	SPLIT PIN S-Zn 5x50	1	10020172
66	HEX. HEAD SCREW M8x50-8.8	1	10260769
67	HEX. BOLT M10x65-8.8	1	10260672
68	HEX. NUT M10-8	2	10280188
69	HEX. NUT M24x2-6	1	10280234
70	PIN 16x55x47	1	10020220
71	PIN 18h11x50x42	1	10020221
72	DOWEL PIN 5x45	2	10020222
73	DOWEL PIN 8x45	2	10020223
74	DOWEL PIN 8	1	10020224
75	WASHER 16	1	10270261
76	COMPRESSION SPRING	1	10210076
77	DRAW SPRING	1	10210053
78	RING	1	10460019
79	CONNECTOR	1	10300852

M001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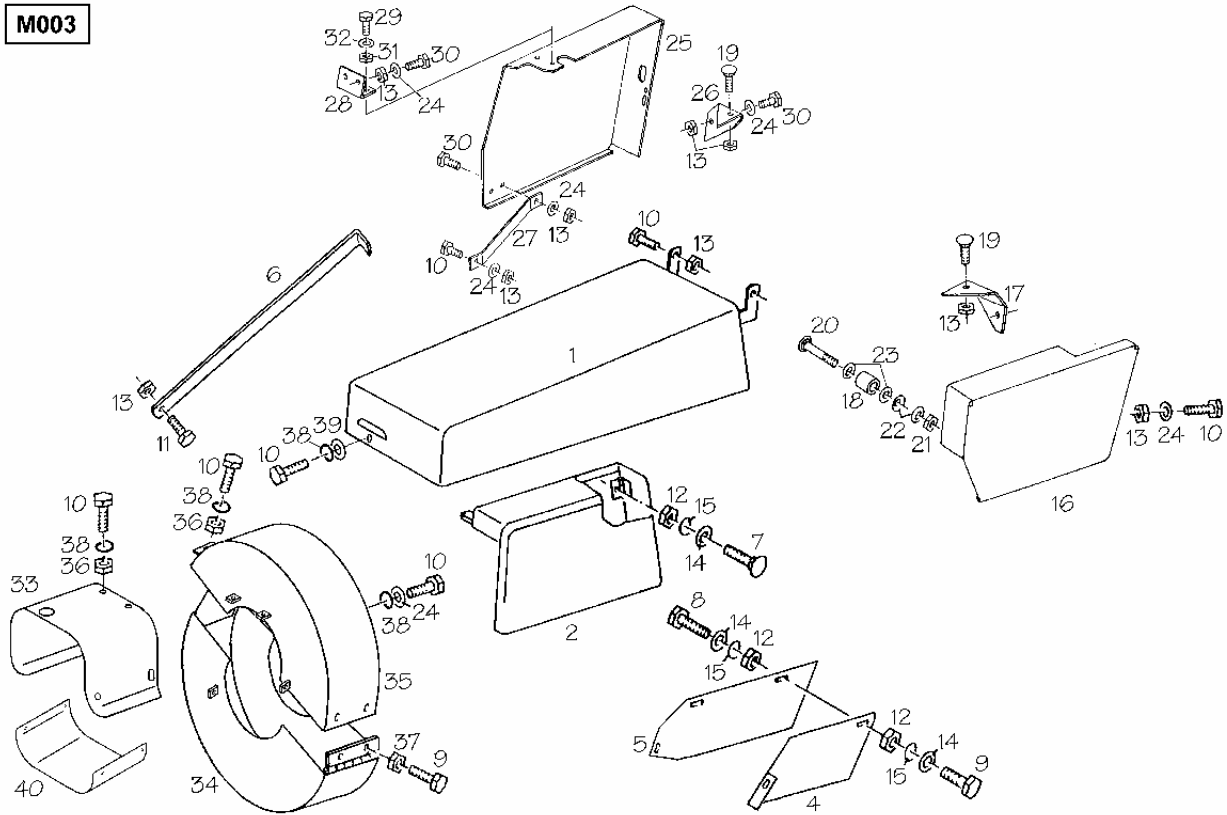
M001 GUARDS 1 - 10630037			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	SPRING CLIP	1	10020225
2	PIN	1	10020226
3	SCREEN	1	10630275
4	REINFORCING PIECE	1	10630276
5	GUARD	1	10630277
6	SCREEN	1	10630278
7	ANTI WRAPPING DEVICE	1	10630279
8	STRIPPER	1	10630280
9	COVERING SHEET	1	10630281
10	GUARD	1	10630282
11	SAUCER HEAD SCREW M6x16-5.8	7	10260701
12	HEX. HEAD SCREW M6x20-8.8	6	10260725
13	HEX. HEAD SCREW M6x16 8.8	10	10260722
14	HEX. HEAD SCREW M8x16-8.8	1	10260684
15	HEX. NUT M6	6	10280208
16	HEX. NUT M10	1	10280216
17	LOCK NUT M6-8	21	10280205
18	LOCK NUT M8-8	6	10280206
19	WASHER 6.4x18x2	16	10270238
20	WASHER 8.4	9	10270200
21	WASHER 10.5	1	10270215
22	WASHER/DISC/PLATE 6.4	15	10270229
23	SPRING WASHER 6.1	6	10270211
25	SPRING WASHER 10.2	1	10270184
26	COVER	1	10150060
27	CUP SPRING 8.2x16x0.9	4	10210077
28	GUARD PLATE	1	10630283
29	OVAL HEADED BOLT M8x20-5.8	1	10260718
30	SCREW M6x16	2	10260770
31	SHEET	1	10300853
32	SCREW M6x12	2	10260771
33	HEX. HEAD SCREW M8x25-8.8	2	10260690
34	GUARD	1	10630284
35	SCREW M8x20	2	10260772
36	GUARD 9x18x2	2	10630285
37	HEX. HEAD SCREW M8x20-8.8	1	10260715
38	FLAP/COVER	1	10150061
39	INSULATING HOSE	3	10300854
40	GUARD	1	10630286
41	HANDLE	1	10300855
42	SPLIT PIN S-Zn 3.2x20	1	10020209
43	COMPRESSION SPRING	1	10210078
44	WASHER 8.4x25x3.0	2	10270222

M003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M003 GUARDS 2 - 10630038			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	GUARD	1	10630287
2	LINING	1	10630288
4	GUARD	1	10630289
5	GUARD	1	10630290
6	SUPPORT ROD	1	10630291
7	SAUCER HEAD SCREW M6x16-5.8	2	10260701
8	HEX. HEAD SCREW M6x20-8.8	3	10260725
9	HEX. HEAD SCREW M6x16-8.8	4	10260722
10	HEX. HEAD SCREW M8x20-8.8	13	10260715
11	HEX. HEAD SCREW M8x25-8.8	1	10260690
12	HEX. NUT M6 8-B	7	10280208
13	LOCK NUT M8-8	10	10280206
14	WASHER 6.5	7	10270210
15	SPRING WASHER 6.1	7	10270211
16	GUARD	1	10630292
17	SUPPORT	1	10630293
18	PIPE TUBE	1	10630294
19	OVAL HEADED BOLT M8x20-5.8	2	10260693
20	TRUSS-HEAD SCREW M10x80-5.6	1	10260773
21	LOCK NUT M10-6	1	10280235
22	CUP-SPRING 10.2x20x1.1	2	10210079
23	WASHER 10.5	2	10270206
24	WASHER 8.4	10	10270230
25	GUARD	1	10630295
26	SUPPORT	1	10630296
27	SUPPORT	1	10630297
28	ANGLED PLATE	1	10630298
29	HEX. HEAD SCREW M6x12-8.8	2	10260721
30	HEX. HEAD SCREW M8x16-8.8	3	10260684
31	LOCK NUT M6-8	2	10280205
32	WASHER 6.4	2	10270209
33	GUARD	1	10630299
34	BOTTOM COVER	1	10150062
35	TOP COVER	1	10150063
36	HEX. NUT M8-8	5	10280191
37	LOCK NUT M6-8	2	10280205
38	SPRING WASHER 8.2	9	10270223
39	WASHER 8.5	1	10270228
40	BOTTOM GUARD		10630300

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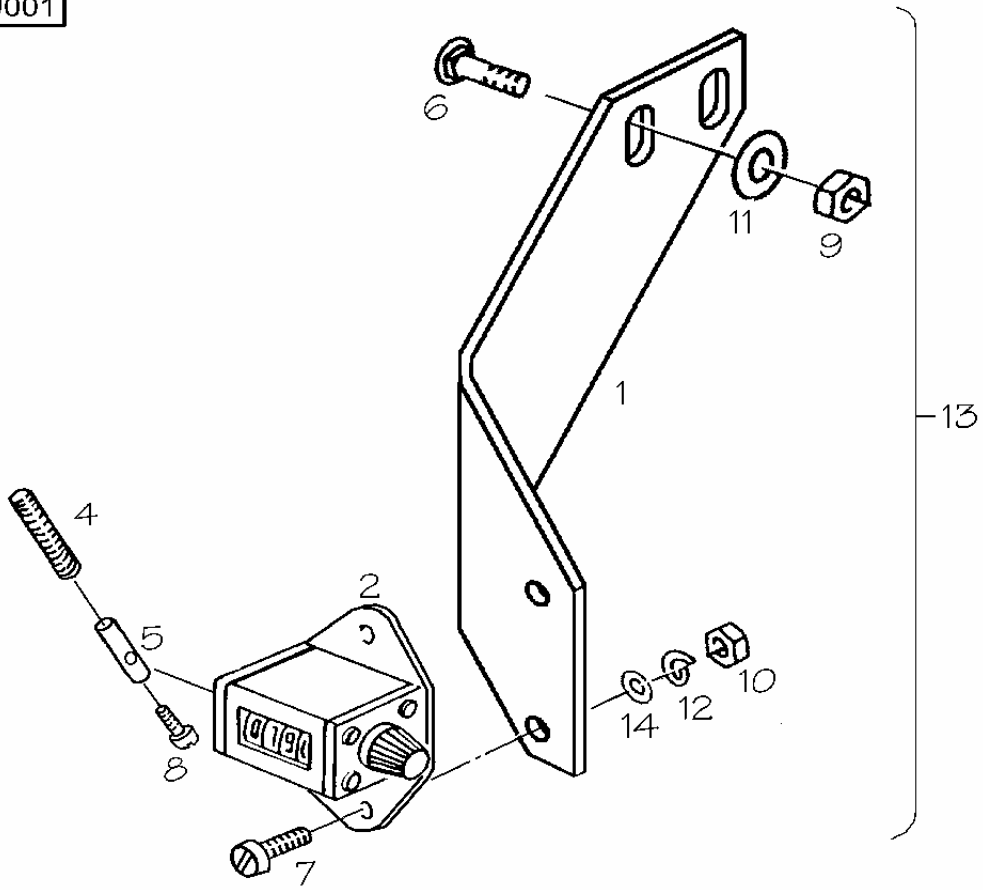

U001 BALES COUNTER - 10630039			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	HOLDER	1	10630301
2	BALES COUNTER	1	10630302
4	SPRING	1	10210080
5	LEVER	1	10300856
6	HEX. HEAD SCREW M6x20-5.8	2	10260743
7	SCREW M3x12 8.8	2	10260774
8	SCREW M3x8-8.8	1	10260775
9	LOCK NUT M6-8	2	10280205
10	HEX. NUT M3-8	2	10280236
11	WASHER 6.5	2	10270210
12	WASHER 4	2	10270262
13	BALES COUNTER	1	10630303
14	WASHER 3.2	2	10270263

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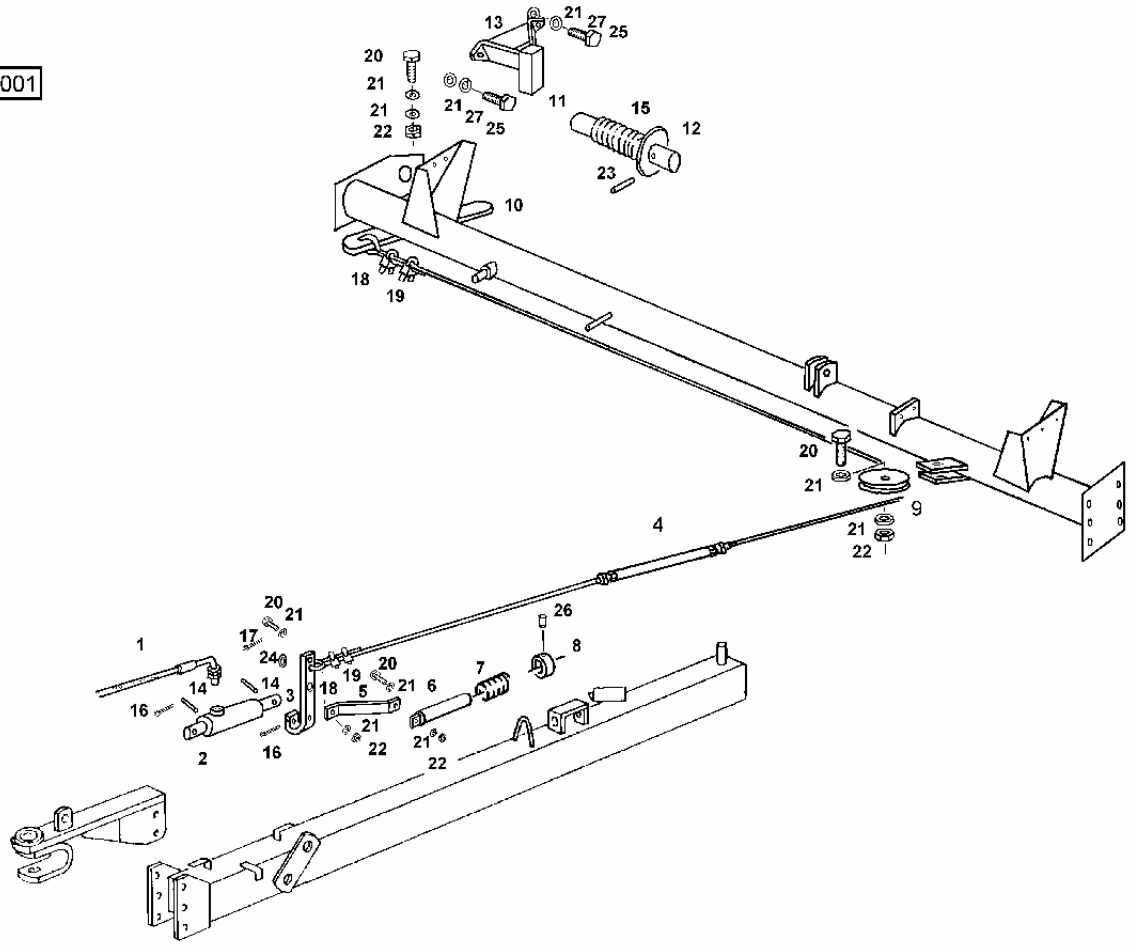
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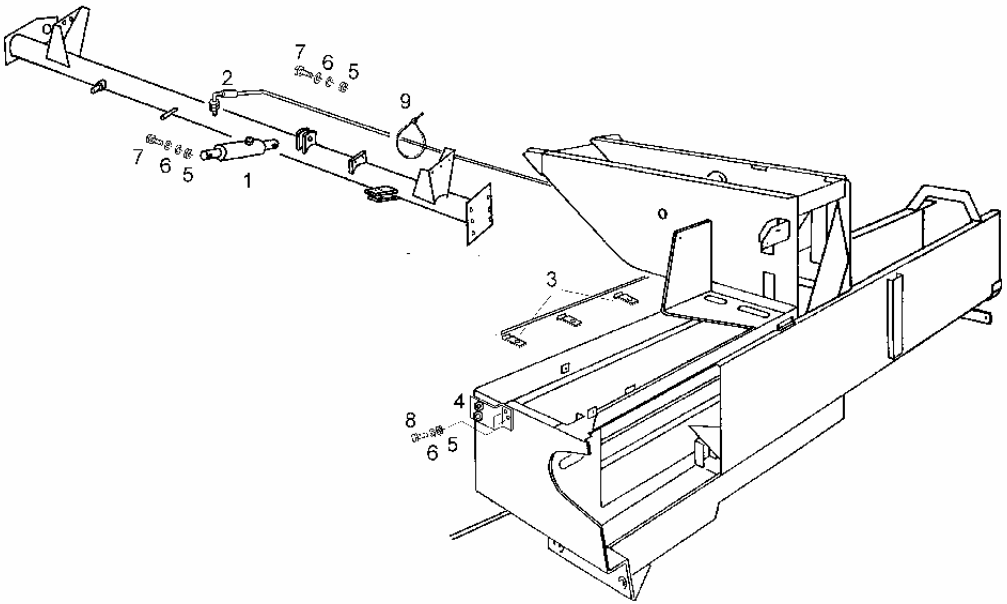
N001 HYDR. ADJUSTMENT OFF DRAWBAR - 10630040			
Sr. No.	**DESCRIPTION**	**No.s**	**PART CODE**
1	HOSE OFF DRAWBAR	1	10630304
2	HYDRAULIC CYLINDER	1	10450030
3	LEVER WELDMENT	1	10630305
4	BOWDEN WIRE	1	10630306
5	LEVER WELDMENT	1	10630307
6	WELDED PIN	1	10020227
7	COMPRESSION SPRING	1	10210066
8	ADJUSTING RING	1	10460015
9	ROLLER	1	10300857
10	BRAKE LEVER	1	10300858
11	BRAKE PIN	1	10020228
12	DISC	1	10630308
13	BLOCKADE	1	10630309
14	PIN	1	10020229
15	COMPRESSION SPRING	1	10210081
16	SPLIT PIN 4x45	2	10020230
17	SPLIT PIN 4x25	1	10020180
18	THIMBLE	2	10300859
19	CLAMPING PIECE	4	10300860
20	HEX. HEAD SCREW M8x30-8.8	4	10260677
21	WASHER 8.4 Fe/Zn5	10	10270200
22	LOCK NUT M8-8	4	10280206
23	SPRING PIN 6X40	1	10020231
24	WASHER 17	1	10270218
25	HEX. HEAD SCREW M8x16-8.8	2	10260684
26	SET SCREW M8X12	1	10260731
27	SPRING WASHER 8.2	2	10270223

N002



N002 HYDR. ADJUSTMENT OFF PICK-UP-10630310			
POS. NO.	**DESCRIPTION**	**QNTY**	**PART CODE**
1	HYDRAULIC CYLINDER	1	10450031
2	HOSE COMPLETE	1	10300861
3	HOSE B RACKET	1	10300862
4	BRACKET COMPLETE	1	10300863
5	LOCK N UT M1 0-8	4	10280207
6	WASHER 10	6	10270215
7	HEX. HEAD SCREW M10x60 - 8.8	2	10260776
8	HEX. HEAD SCREW M10x25 - 8.8	2	10260690
9	CABLE CLAMP 400X5	1	10220071

DELIVERY CHECKLIST

Dealer Pre-Delivery (Please Tick)

1. Dealer Pre-Delivery Checklist

1. The customer or person responsible has been given the operator's manual.
2. The customer undertakes to read the complete operator's manual and understands all aspects of the manual before operation of the machine.
3. All safety, operational and maintenance information have been explained and demonstrated.
4. All greasing and oil points, stickers, guarding and ID plate have been identified and physically pointed out.
5. The customer agrees that it is his responsibility to read and carry out the safety, maintenance and operation as per this operator's manual.

Please Complete all Dealer information Below

Dealer Information

Dealer's Name.....

Address.....

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State..... Postcode.....

Phone..... Fax.....

Email.....

Service Person.....

I confirm that the pre-delivery service was performed on this machine.

Signature.....

Date.....

Comments.....

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Customer Delivery (Please Tick)

2. Customer Delivery Checklist

1. The customer or person responsible has been given the operator's manual.
2. The customer undertakes to read the complete operator's manual and understands all aspects of the manual before operation of the machine.
3. All safety, operational and maintenance information have been explained and demonstrated.
4. All greasing and oil points, stickers, guarding and ID plate have been identified and physically pointed out.
5. The customer agrees that it is his responsibility to read and carry out the safety, maintenance and operation as per this operator's manual.

Please Complete all Customer Information Below

Customer Information

Customer's Name.....

Address.....

.....

State..... Postcode.....

Phone..... Fax.....

Email.....

Delivery Person.....

I confirm that all of the delivery checks were explained and performed.

Signature.....

Delivery Date.....

Comments.....

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FIELDKING

WARRANTY CARD

Customer Copy

CUSTOMER NAME Mr./ Mrs :	
ADDRESS :	
MOBILE NO. :	
Email :	
NAME OF IMPLEMENT :	
MODEL NO. :	
YEAR OF Mfg. :	
SERIAL NO. :	
REGISTRATION NO. :	
DATE OF PURCHASING :	
NAME OF DEALER :	

Customer`s Signature

Dealer`s Signature

Beri Udyog Pvt. Ltd.

Corporate Office : Plot No. 235-236 & 238-240, Sec-3, HSIIDC,
Karnal- 132001 (Haryana), India +91-184-2221571/ 72/ 73
marketing@fieldking.com, exports@fieldking.com, www.fieldking.com

FIELDKING

WARRANTY CARD

Company Copy

CUSTOMER NAME Mr./ Mrs :	
ADDRESS :	
MOBILE NO. :	
Email :	
NAME OF IMPLEMENT :	
MODEL NO. :	
YEAR OF Mfg. :	
SERIAL NO. :	
REGISTRATION NO. :	
DATE OF PURCHASING :	
NAME OF DEALER :	

Customer`s Signature

Dealer`s Signature

Beri Udyog Pvt. Ltd.

Corporate Office : Plot No. 235-236 & 238-240, Sec-3, HSIIDC,
Karnal- 132001 (Haryana), India +91-184-2221571/ 72/ 73
marketing@fieldking.com, exports@fieldking.com, www.fieldking.com

FIELDKING

WARRANTY CARD

Dealer Copy

CUSTOMER NAME Mr./ Mrs :	
ADDRESS :	
MOBILE NO. :	
Email :	
NAME OF IMPLEMENT :	
MODEL NO. :	
YEAR OF Mfg. :	
SERIAL NO. :	
REGISTRATION NO. :	
DATE OF PURCHASING :	
NAME OF DEALER :	

Customer`s Signature

Dealer`s Signature

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Tillage | Haulage | Landscaping | Seeding & Plantation

Crop Protection | Harvest | Post Harvest

Solutions...

11-07-2019

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