

12/2010

Mod: DM9

Production code: 75500



Diamond
catering equipment



90° MACHINE MOVED CURVE

COURBE MECANISEE A 90°

MACHINE-BEWEGTER ECK ORDERER 90

CURVA MECCANIZZAT A 90°

OPRATING ISTRUCTIONS

MODE D'EMPLOI

ANWEISUNGEN

ISTRUZIONI

90° MACHINE-MOVED CURVE

INSTRUCTIONS FOR: INSTALLATION, USE AND CARE

The curve is for unloading of the plastic-standard racks, from a towing dishwasher. Each other use will be consider improper and for this reason potentially dangerous.

This curve can be applied on the right or left side of machine. For inversion please follow the instructions.

The curve must unload the racks to a shelf or a drawing-frame roller with suitable height and width, both with micro switch for the end.

List of the components:

Quantity	Description	Code	Notes
1	Machine-moved curve		
1	Group legs		
1	Traction-trace		
1	Little front with buttonhole		
2	Bronze bushing		
2	Screws stainless steel M8 x 25		
2	Washer 8 x 24		
2	Self block screw		
6	Rounded head screw M6 x 15		
6	Washer 6		
6	Screw M6		

INSTALLATION

Change the little front of the machine.
(see photo 1)

Assemble the group legs to the curve with the M6 screws.
(see photo 2)

Lean the curve to the exit of the machine and fix it with the M6 screws.
(see photo 3)

If necessary disassemble and wheel the dragging nibs to make them pushing and turn te guide.
(see photo 4 i 4.1)

Adjust the feet to have the right height and to put the curve in good position.
(see photo 5)

Insert the protection bent edge.
(see photo 6)

Adjust the screw to have the right height and to put the guide in good position.
(see photo 6.1)

Assemble the push rod as indicated in the photos.
(see photo 7-8)

Use all the other available holes if would be necessary to arrange the running of the curve to the running of the machine.

Before starting of the machine, check manually that the mobile group is allow to make all the running without problem.
(see photo 9-10)

Make a test using some loaded racks.

SAFETY MEASURES

USE

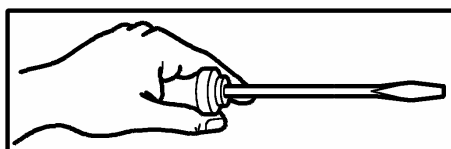
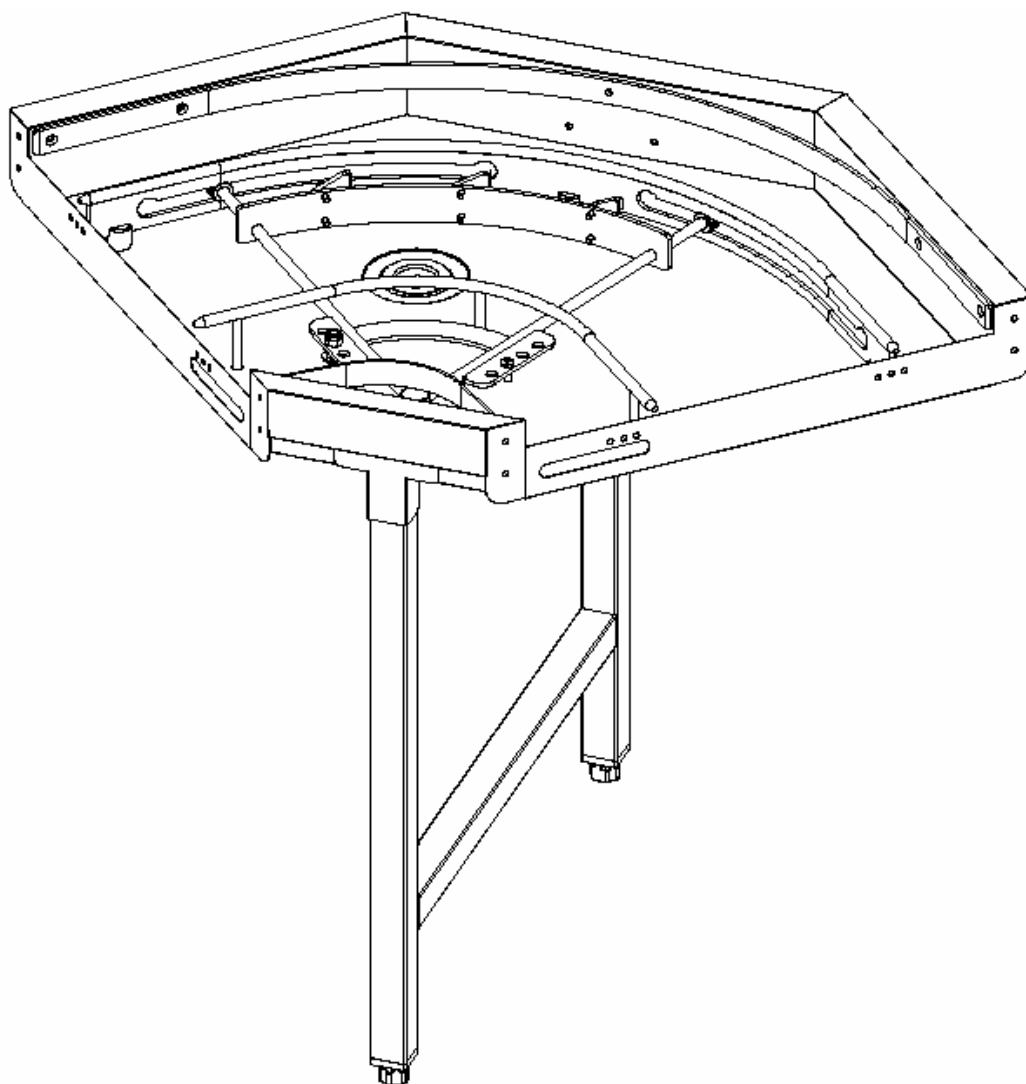
DO NOT UNLOAD THE BASKETS FROM CURVE. Unload the racks only from shelf or from the drawing-frame roller.

Stop the machine before picking up eventually things fallen down from the curve.

CARE

STOP THE MACHINE BEFORE EACH OPERATION TO DO ON THE CURVE.

**FITTING INSTRUCTIONS FOR 90° MECHANISED BEND.
ANLEITUNG ZUM EINBAU DER MECHANISIERTEN 90°-KURVE
INSTRUCTIONS POUR LE MONTAGE COURBE 90° MÉCANISÉE
ISTRUZIONI PER IL MONTAGGIO CURVA 90° MECCANIZZATA
INSTRUCCIONES PARA EL MONTAJE CURVA Z 90° MECANIZADA**



FITTING INSTRUCTIONS FOR 90° MECHANISED BEND.

Important information:

The manufacturer declines any responsibility for damage or injury resulting from the failure to comply with the given instructions.

The following instructions are intended for authorised personnel only. It is forbidden to add any device or carry out any modification which might alter the performance of this appliance or kit.

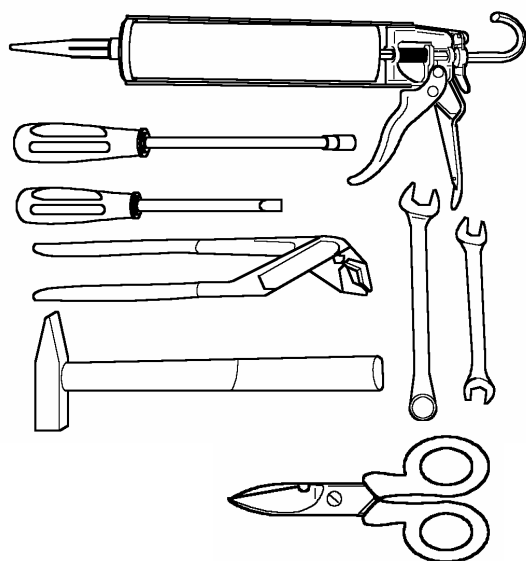
These instructions refer to the fitting of the mechanised bend; a device used to clear the baskets as they leave the appliance.

Before commencing any operation, we recommend that the appliance is fully detached from the electric and water mains.

We wish to remind you that, for your safety, you must wear cut-proof gloves and safety boots.

The time needed to complete the whole operation is approx. 30'

List of necessary tools:

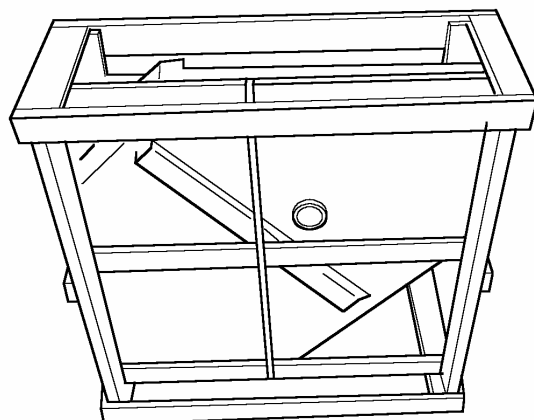


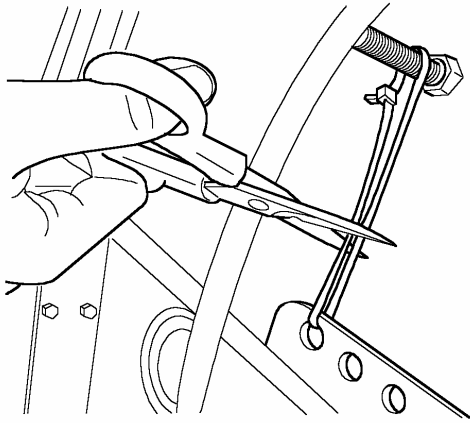
- Screwdriver for medium-large flat screws.
- 10mm hexagonal box-spanner.
- 13mm spanner
- 17mm spanner
- Slip-joint pliers
- Hammer
- Silicon
- Scissors

Attention: if you require the mirror image of the bend you have received, please refer to chapter 8.

1

1) REMOVAL FROM CRATE

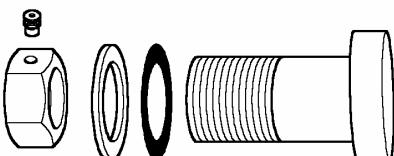
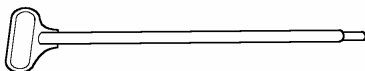
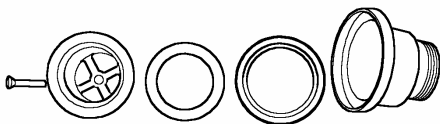
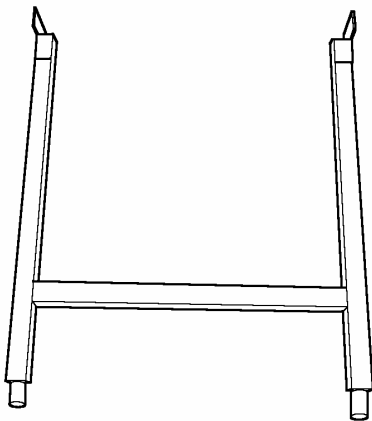
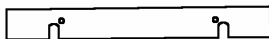
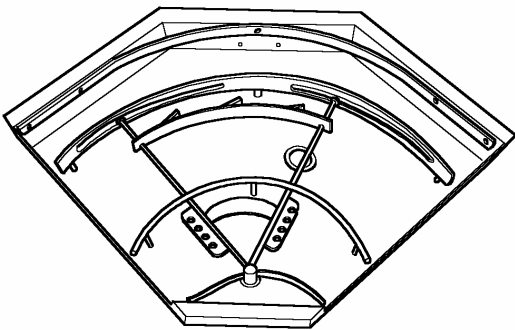




To extract the bend from its packing it is necessary to use a large flat screwdriver and use it as a lever to raise the nailed sections. Cut the steel strips and any other clamps retaining the various moving components.

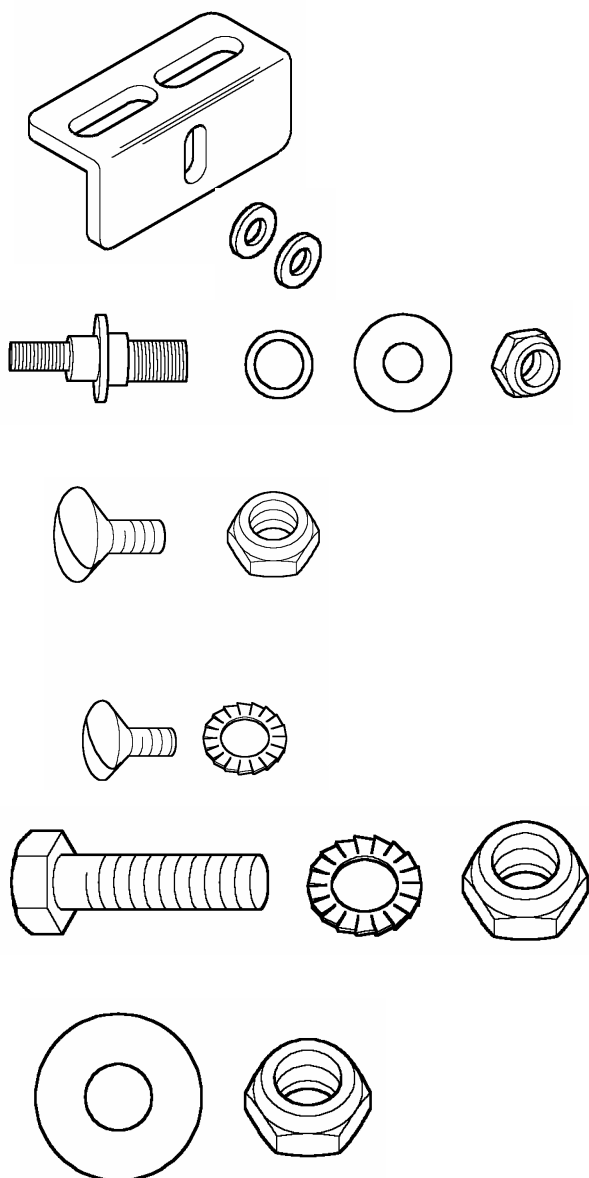
2) List of components

2



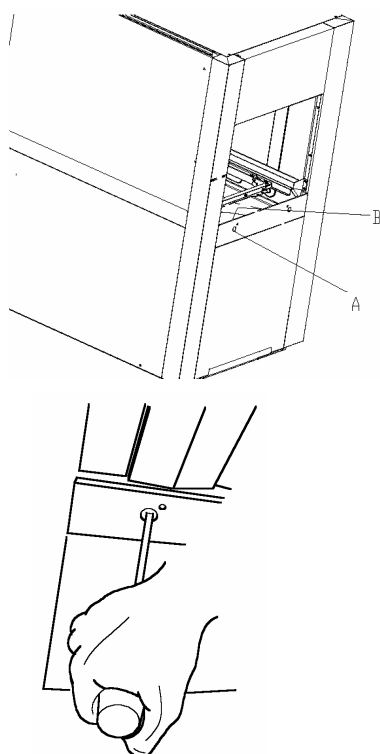
- 1 Mechanised bend
- 1 Bend support
- 1 Machine-bend fitting plate

- 1 Drain with grid, 2 seal, 1 drain attachment,
- 1 Screw.
- 1 Conveyor connecting rod.
- 1 Connecting rod bushing + G3/8" nut
- 1 Dowel
- 1 Washer
- 1 Seal



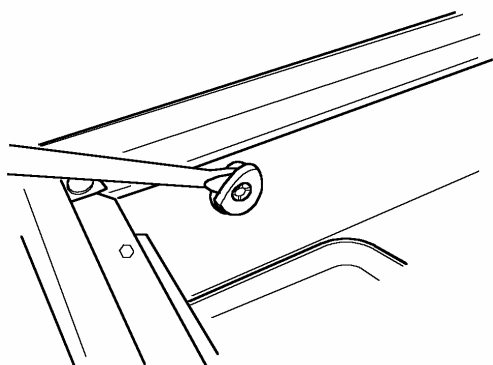
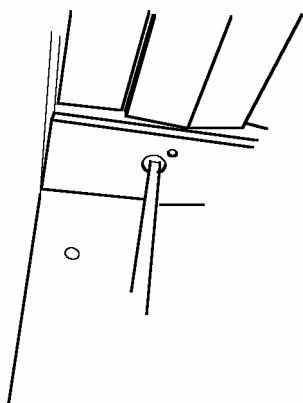
- 1 Angular section for conveyor attachment
- 2 Washers
- 1 Connecting rod pin
- 1 Plain bearing
- 2 M8 self-locking nuts + washer for M8 screw
- 4 M6 screws + 4 M6 flanged nuts.
- 2 5mm screws + 2 anti-slack counter-washers.
- 2 6mm screws + anti-slack washer
- 2 M6 self-locking nuts
- 1 M10 self-locking nut
- 1 Ø 10mm washer

3



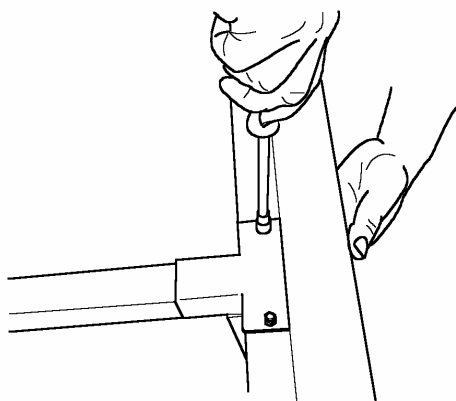
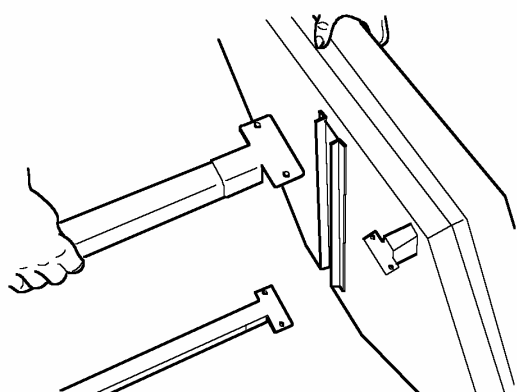
3) Preparing the appliance

Remove disc "A", attached via micro-fixings, using a screwdriver and a hammer.
Remove rubber buffer "B" from inside the appliance, using the screwdriver as a lever.



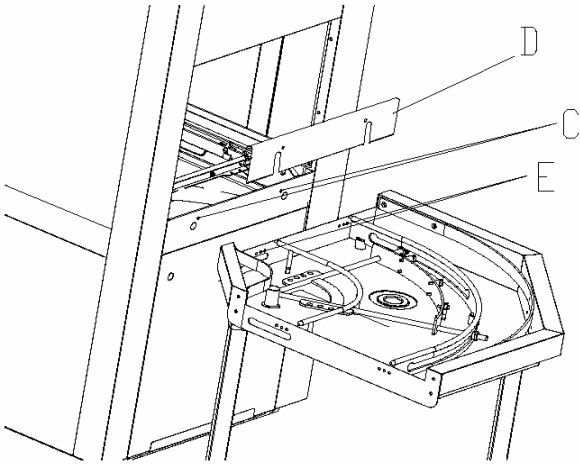
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4) Fitting the legs

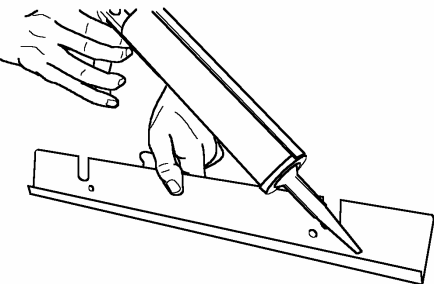
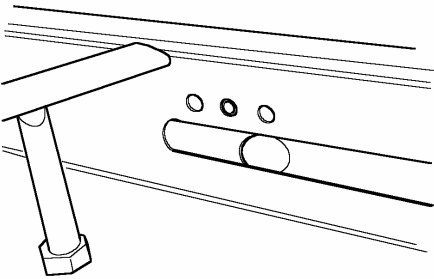
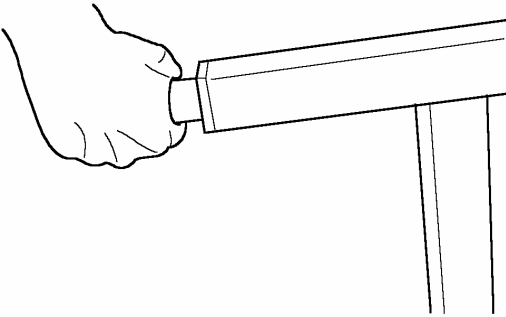


Secure the legs using the M6 screws and flanged nuts.

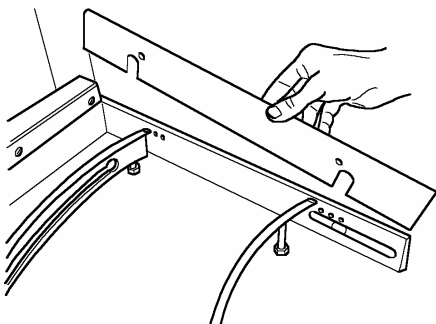
4) Fitting the bend



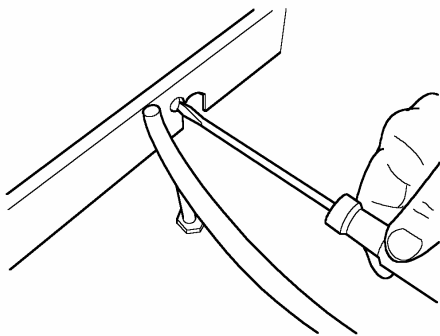
Remove the M4 screws from the pre-drilled holes "C", bring the bend close to the machine so that the bend central holes "E" correspond to the threaded holes "C"; if necessary, adjust the legs height.



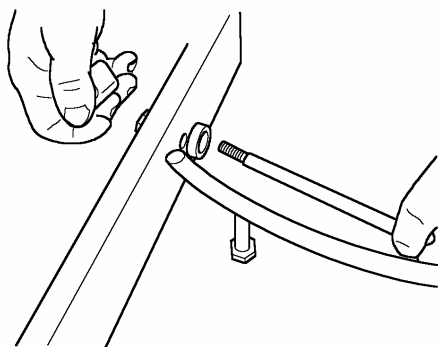
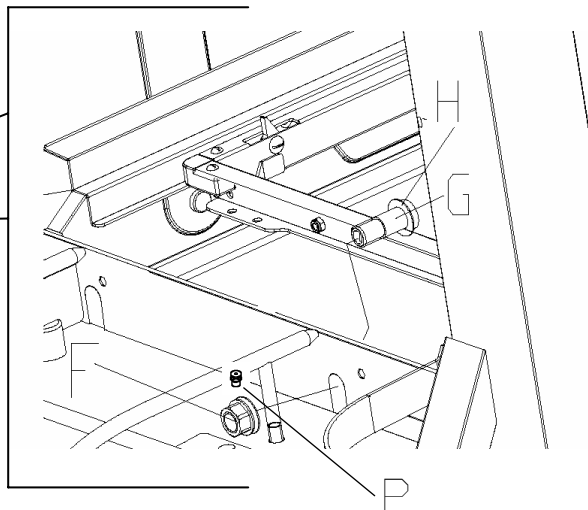
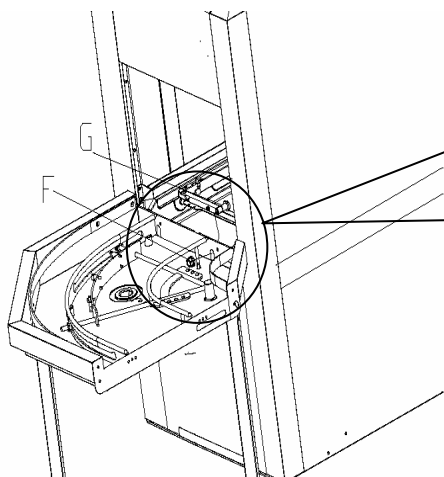
....Once the height has been adjusted, so that the holes are aligned as shown in the figure; apply some silicon on the fitting plate "D" (on the inside of the lip). Fit this onto the bend and fix the whole using the M4 screws previously removed from "D"



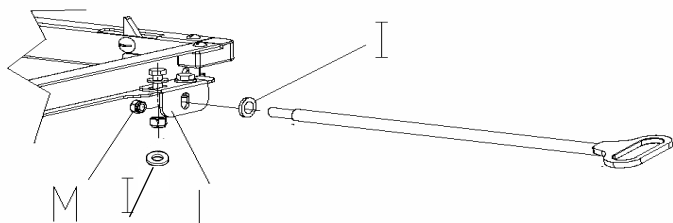
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5) Attaching the connecting rod.

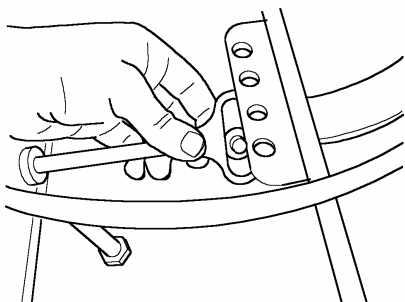
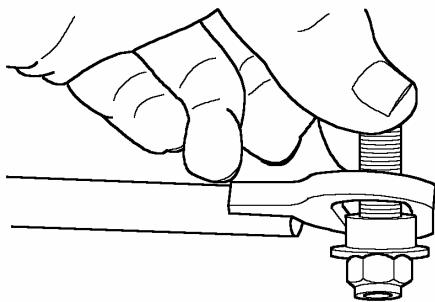
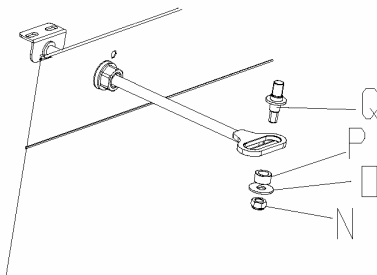
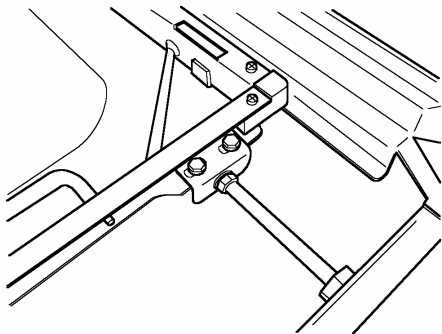
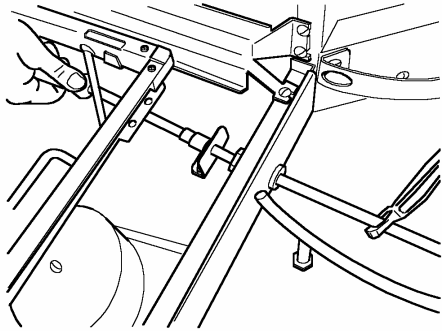


Insert bushing "G" with seal H located inside the hole previously opened and fix the whole using nut "F". (G3/8").
Tighten nut "F" with dowel "P"



Introduce the connecting rod inside bushing "G", insert washer I on to the connecting rod and fix the whole to angle plate "L" via nut "M". (M8)

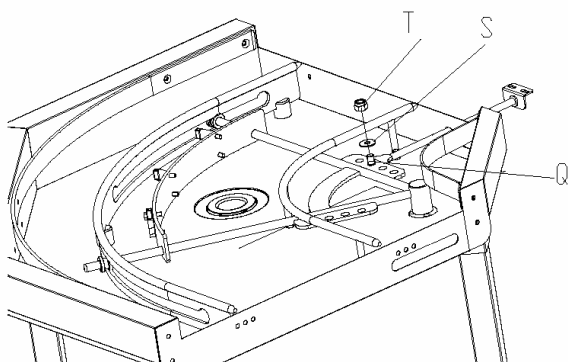
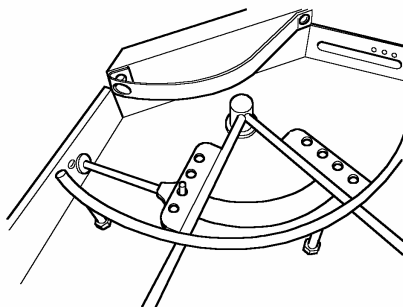
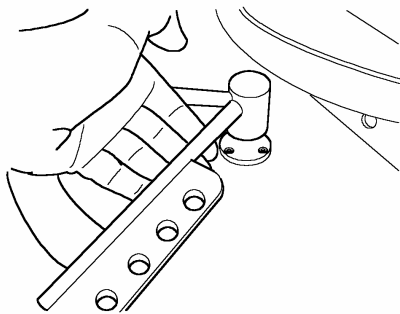
Attach angle plate "L" to the appliance conveyor; fix the whole with M6 screw, washers and self-locking nuts (as per drawing).



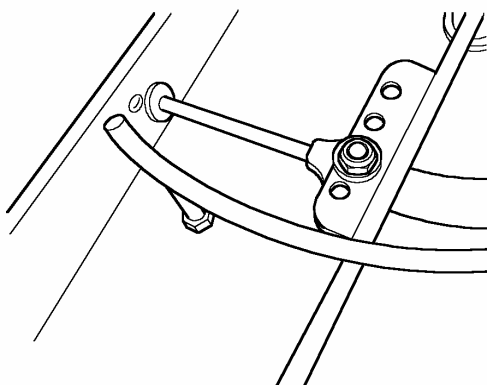
Insert connecting rod bolt “Q” through the slotted hole, hence fit bearing “P” to the bolt, secure the whole with washer “O” and M8 nut “N” (as per drawing).

Warning: check the bearing is not seized whilst the nut is well tightened.

Bring the bend conveyor close to the connecting rod, lift the conveyor slightly and introduce the bolt through the second hole on the conveyor (as shown in the figure).



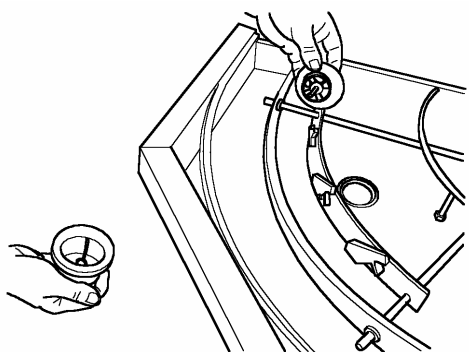
Fix the bolt through M10 nut “**T**” and washer “**S**”.



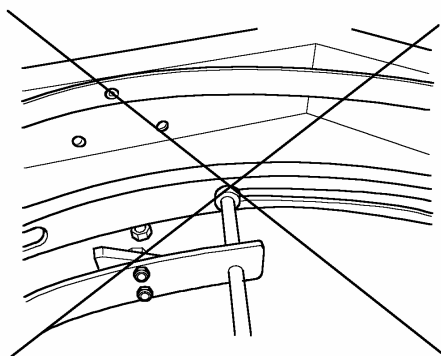
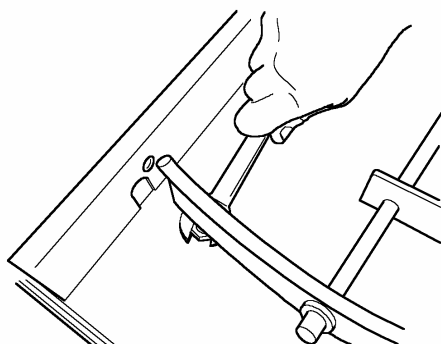
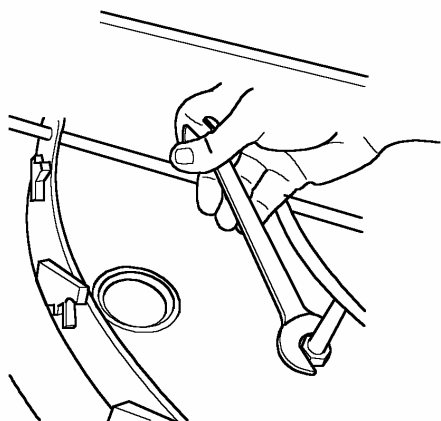
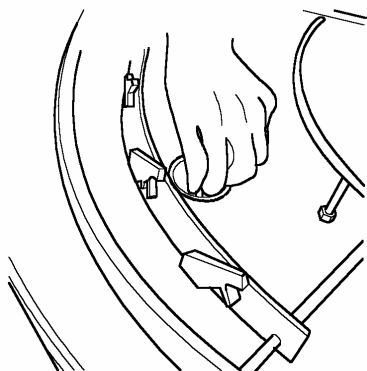
6) Drain

Fit the drain as shown in the figure:

6



7



7) Checks and testing:

It is important to verify the correct motion of the basket, simply by pushing it along the tracks by hand from the appliance and through the bend. If the tracks are not aligned, it is possible to adjust their height by acting on the screws as shown in the figure.

Note: the basket must be able to move freely.

Also, check that the bend conveyor runs freely along the whole length of the tracks.
Run a test cycle with some empty baskets.
The drive bearing inside the track must not reach the end of the slotted hole as shown in figure 1.

Figure 1: **WRONG** motion!

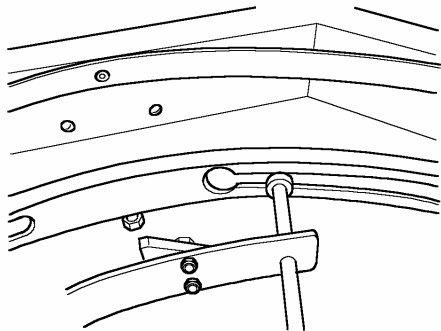
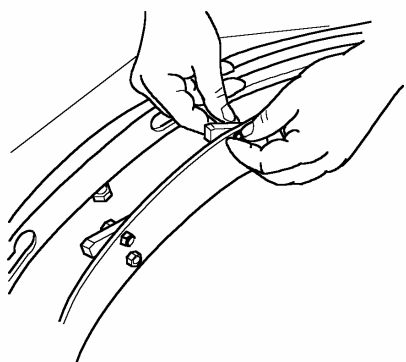
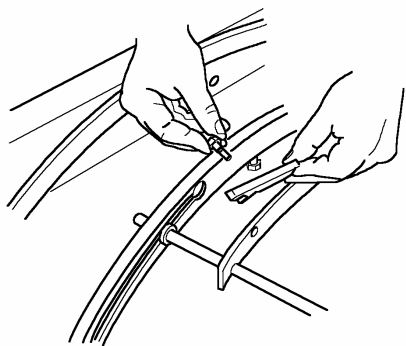
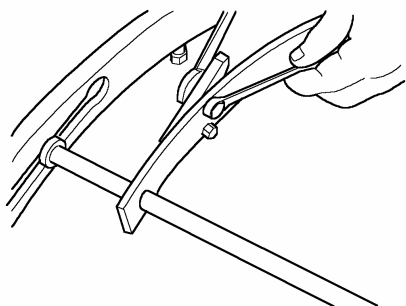


Figure 2: **CORRECT** motion

**Check the correct sense of rotation of the conveyor (clockwise).
Check there are no water infiltrations through the bend – machine fitting.**

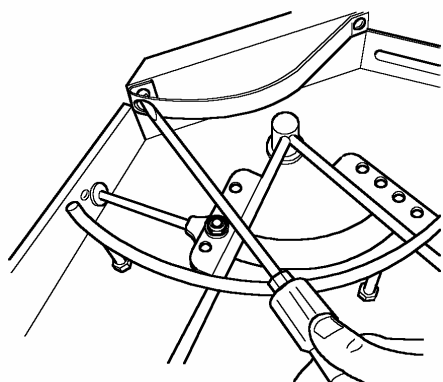
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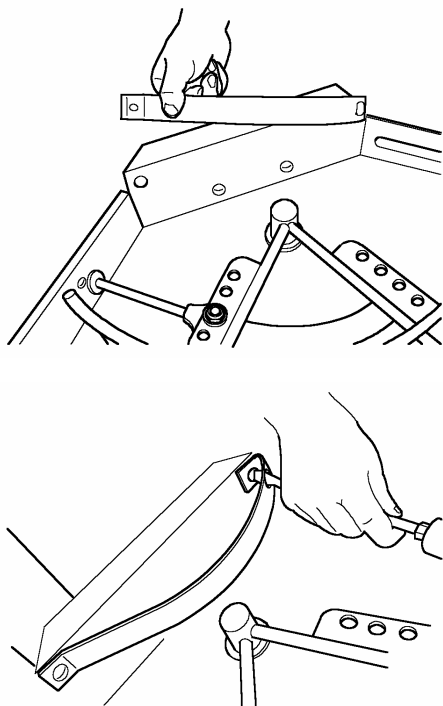


8) Transforming the bend from RHS to LHS and vice versa.

Rotate the conveyor teeth.

Rotate the track:





SOME SAFETY PRECAUTIONS:

- Stop the motion of the appliance before starting any operation on the bend.
- Do not remove the baskets from the bend; wait for the baskets to be free from the tracks.
- Before picking up objects accidentally fallen inside the bend, stop the motion of appliance.
- Do not approach the motion of the conveyor whilst wearing pendants, bracelets or large shirt sleeves to avoid the possibility of being caught by the mechanism and or being pulled away.

The technician must train any authorised personnel and provide them with information concerning the use of the appliance and the dangers deriving from it.

The technician must also fill in a declaration confirming that the installation has been carried in accordance with all prescribed regulations and, in addition, will inform the manufacturer of any anomalies found during the installation.

The warranty does not cover:

- Damage in transport; should such an event occur, the customer must inform the dealer and note down the details of the incident on the transport documents.
- Damages resulting from improper assembly of components.
- Damages resulting from abnormal wear of fitted components.
- Damages resulting from using the machine for purposes other than the one for which it has explicitly been built for.

