



# **Master-MB Assembly Instruction**



## Preassembly information

The sprayer is supplied ex-works in shipping packages. Number of packages per sprayer varies depending on the model. This covers all MA-MB models so please note only the fittings covering your model.

Removal of the plastic bag covering the tank is easiest done before assembly.

Some components are shipped within the tank. Check inside.

The directions „right“ and „left“ are described when facing the direction of travel.

## CE marking for EU countries

From January 1995, all machines sold in EU countries must be CE marked. The following must be done before a new machine can be delivered.

1. Assembly and test all functions of the sprayer.
2. Fill in the EU Declaration of Conformity in the instruction book. (sprayer order no., and full description, etc).
3. Adhere the self-adhesive CE mark with correct inscription to the tank frame on a **dry clean surface**. Adhere the **protection film** on top of the CE mark.  
**NOTE:** The self-adhesive CE mark and protection film needs to harden for 24 hours.
4. Fill in the customer file with customer name, address and sprayer data (full description, shipping packages and shop order numbers). Each shipping package contains two labels with the number of the package. One label is for the customer file as described, the other is for the instruction book. Adhere the labels on the inside cover of the instruction book.

## Packaging information

Materials used for packaging are environmentally compatible. They can be safely deposited or they can be burnt in an incinerator.

Recycling

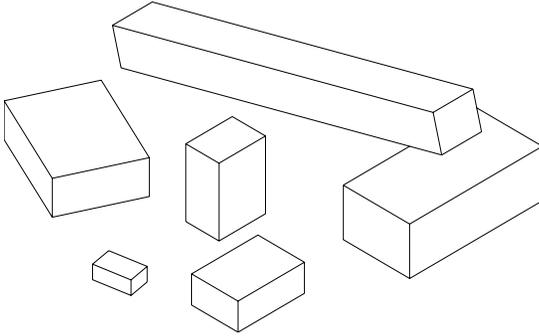
Cardboard: Can recycle up to 99% and therefore should be put into the waste collection system.

Polystyrene foam: Can be recycled. Fluorocarbons (CFC) not used in foam production.

Polyethylene: Can be recycled.

1. Check all shipping packages are present.

**NOTE:** Use O-rings where indicated. Lubricate them with non-mineral lubricant before assembly.



**Model 1202/1302**

2. Tee with O-ring and pressure damper are fixed to the frame.

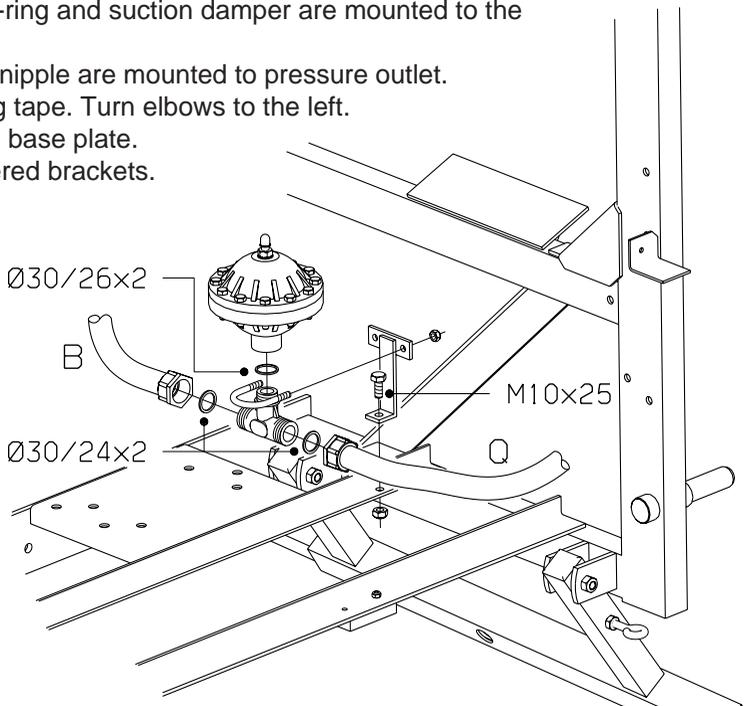
Tee with O-ring and suction damper are mounted to the pump.

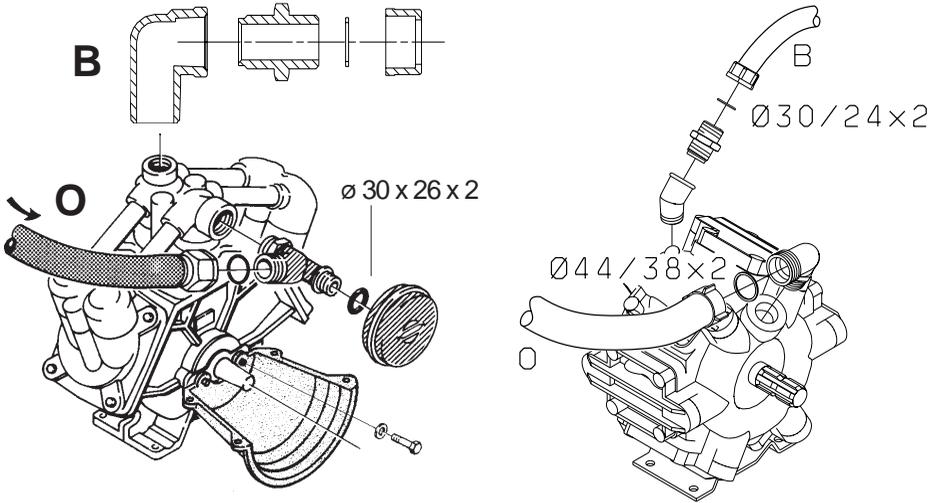
Elbow and nipple are mounted to pressure outlet.

Use sealing tape. Turn elbows to the left.

Fit pump to base plate.

Use staggered brackets.





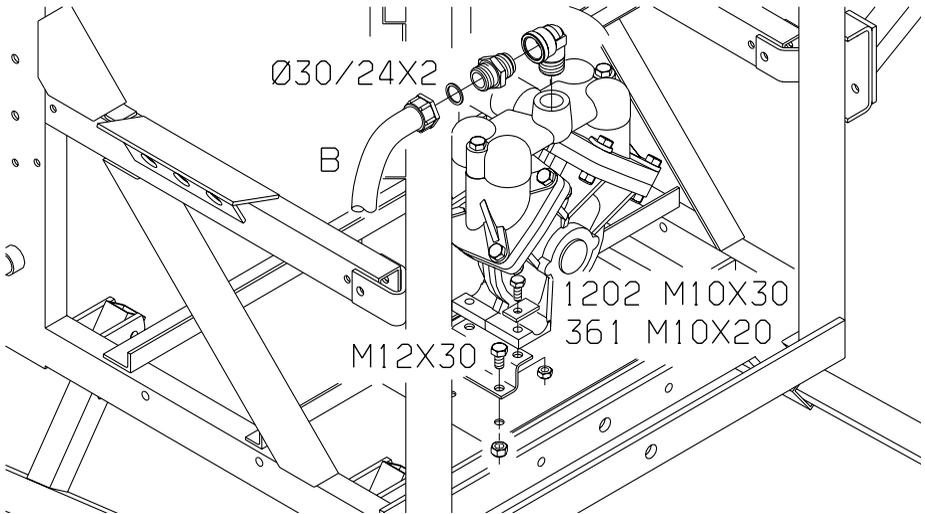
**Model 361**

2. Elbow is mounted to suction inlet.

Elbow and nipple are mounted to pressure outlet. Use sealing tape.

Turn elbows to the left.

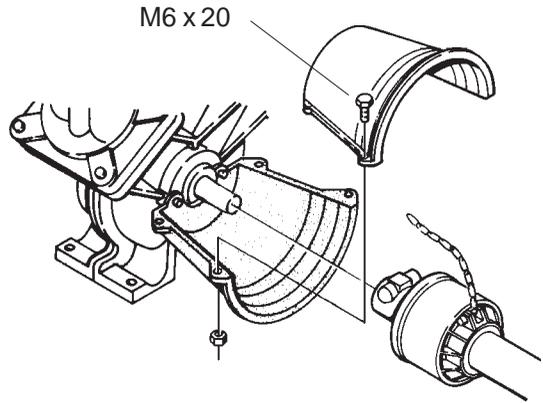
Fit pump to base with M10 x 20 bolts.



3. Fit bottom half of protective guard.

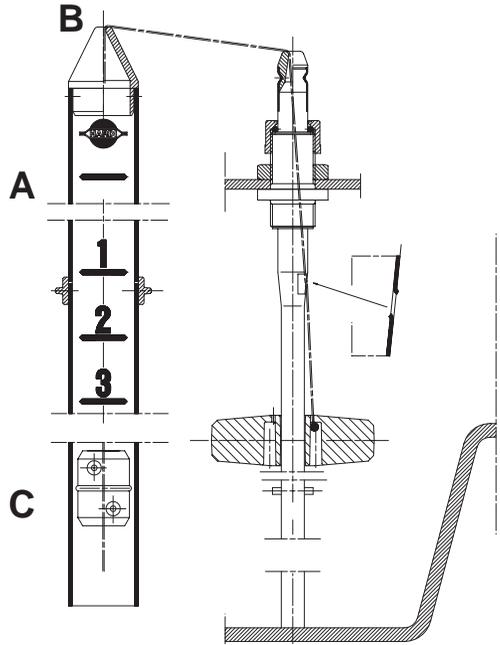
Lubricate conical or splined shaft lightly and connect transmission shaft and fit cover. Attach chain to prevent rotation of the protective guard.

For conical connection recheck the grub screw is tight after 5 min. of usage.



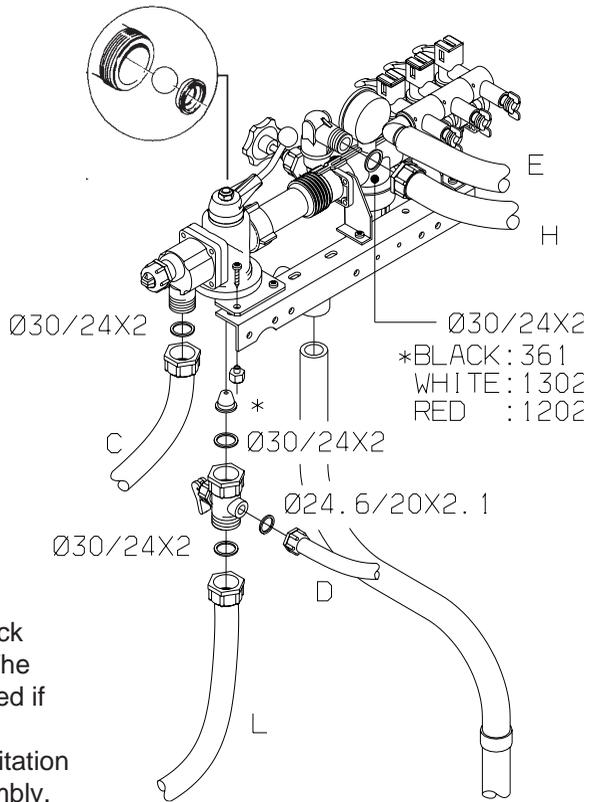
#### Level indicator

4. Tube holders and tube are fitted. With the float resting on the stop pin at the bottom of the rod, the O-ring on the indicator must be positioned at the top position line **A**. Remove plug **B** and loosen screws **C** to alter position.



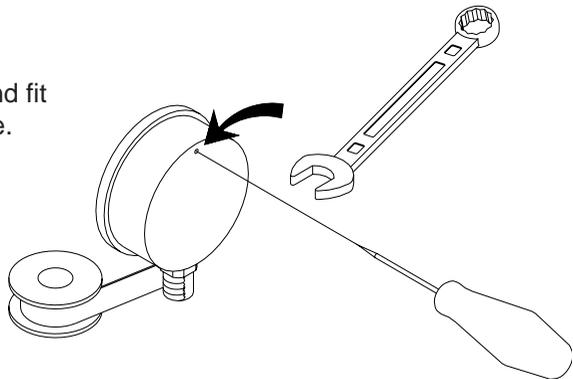
### BK operating unit

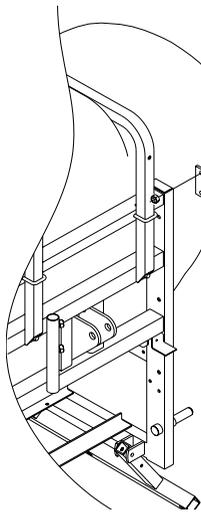
5. Place ball in the main ON/OFF valve and turn the handle so the ball disappears. Fit valve seat and connect main valve to the distribution valves.



6. Fit operating unit to rack arm and arm holder. The holder can be shortened if necessary. Place nozzle in the agitation valve and fit the assembly.

7. See back of pressure gauge. Pierce casing and fit gauge. Use sealing tape. Do not overtighten.

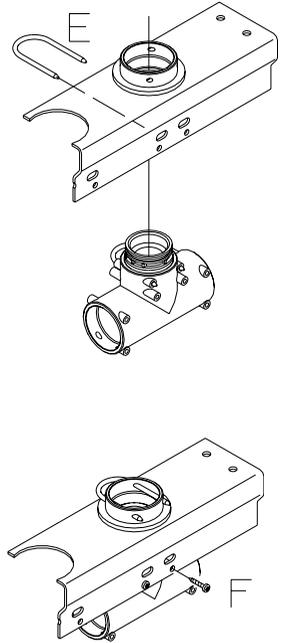
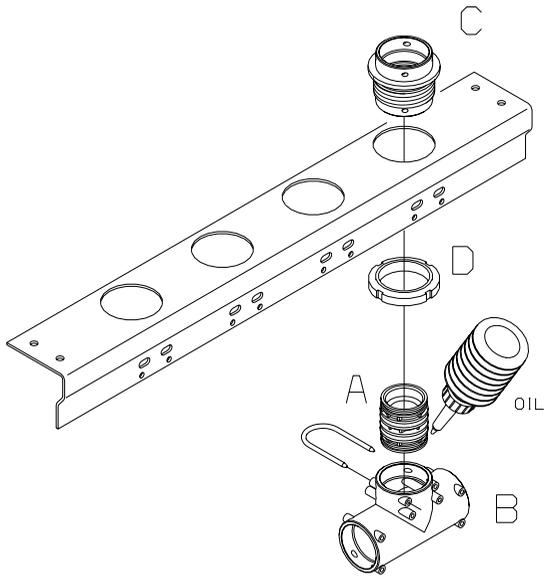
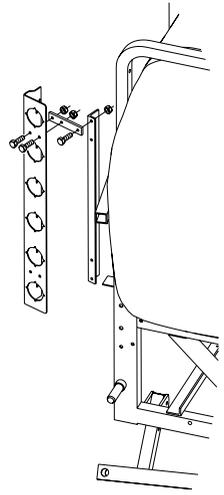




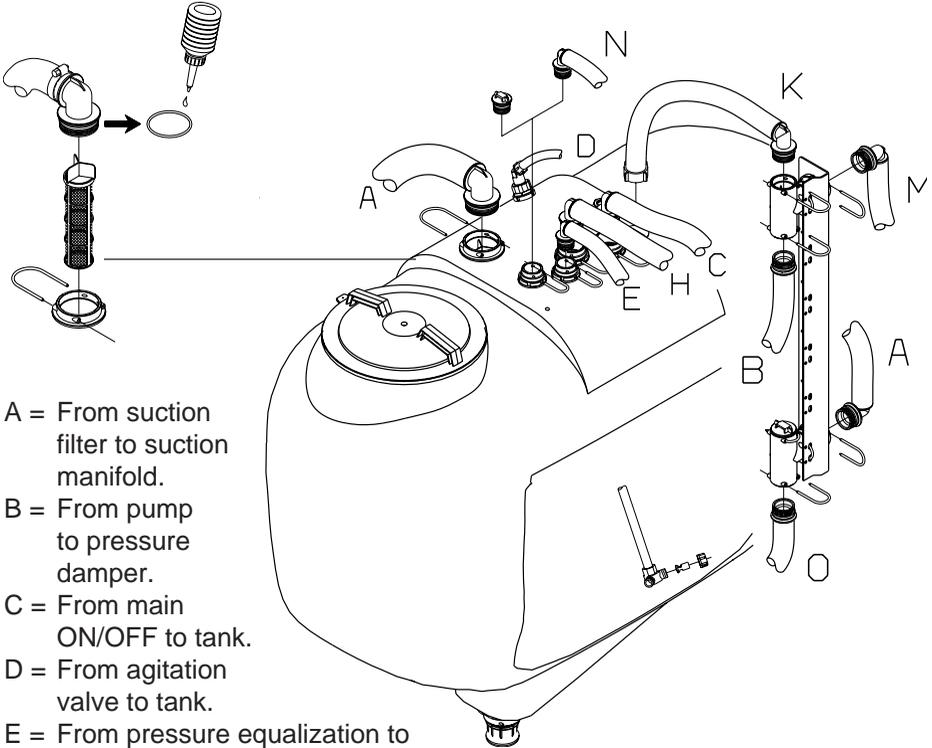
M12X6C

8. Mount MANIFOLD fittings  
(and eventual valves). Now bolt  
bracket to the left hand side.

M8X30



9. Check the agitation nozzles do not point towards yellow suction pipe.  
If necessary, secure with plastic strap.
10. Insert filter and guide  
(guide at top).
11. Fit hoses. Remember to lubricate O-rings before fitting.

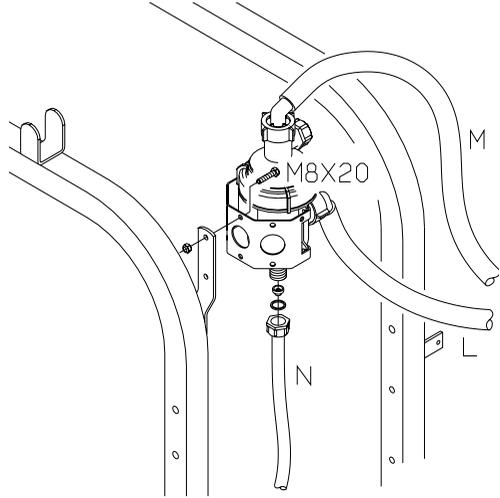


- A = From suction filter to suction manifold.
- B = From pump to pressure damper.
- C = From main ON/OFF to tank.
- D = From agitation valve to tank.
- E = From pressure equalization to tank.
- F = From distribution valves to boom.  
Shortest for centre/inner section.
- H = From HARDI-MATIC to tank.
- K = From pressure manifold to safety valve.
- M = From pressure manifold to operating unit.
- N = From Self Cleaning Filter (if fitted) to tank.  
Use green restrictor for initial setup.
- O = From suction manifold to pump.
- Q = From pump or, pressure damper to pressure manifold.

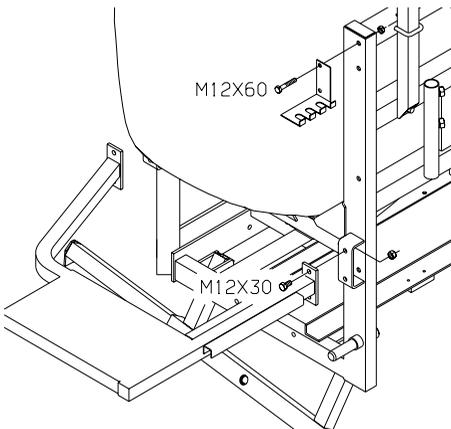
Fit hoses inside the tank:  
From main ON/OFF valve (hose C).  
From HARDI-MATIC (hose H).

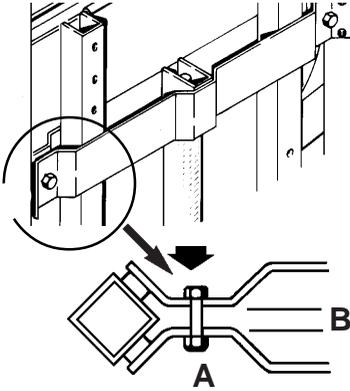
**NOTE:** For sake of good order, it may be necessary to shorten some hoses. This is best done when assembly is completed and before hoses are secured with plastic straps.

12. Fit Self-Cleaning Filter to right hand side tank brace. Use green restrictor for initial setup.

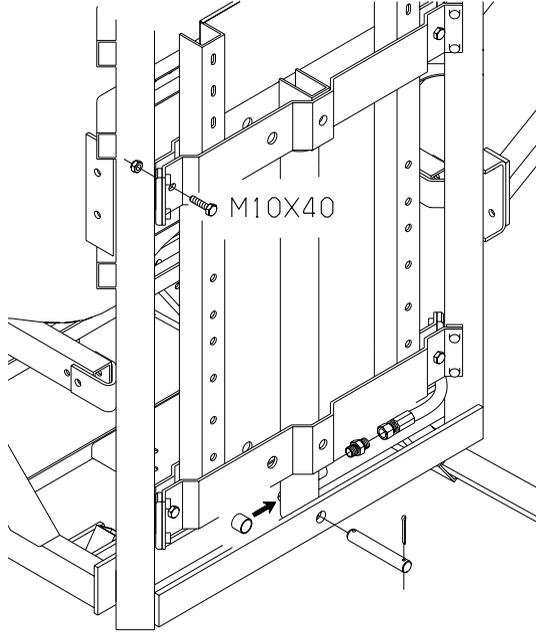


13. Bolt step and hose holder to the right hand side.

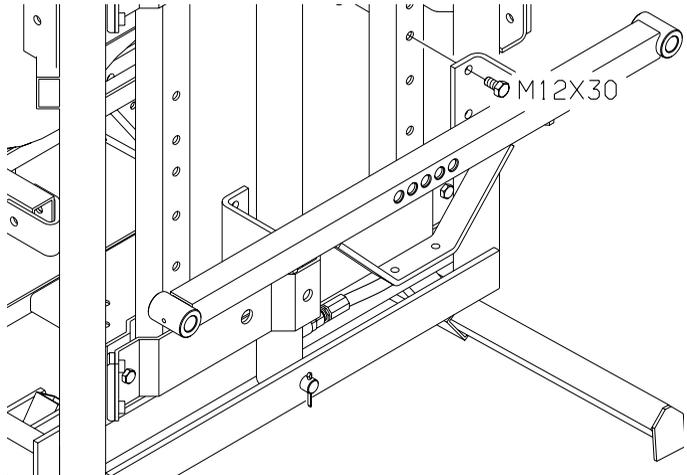


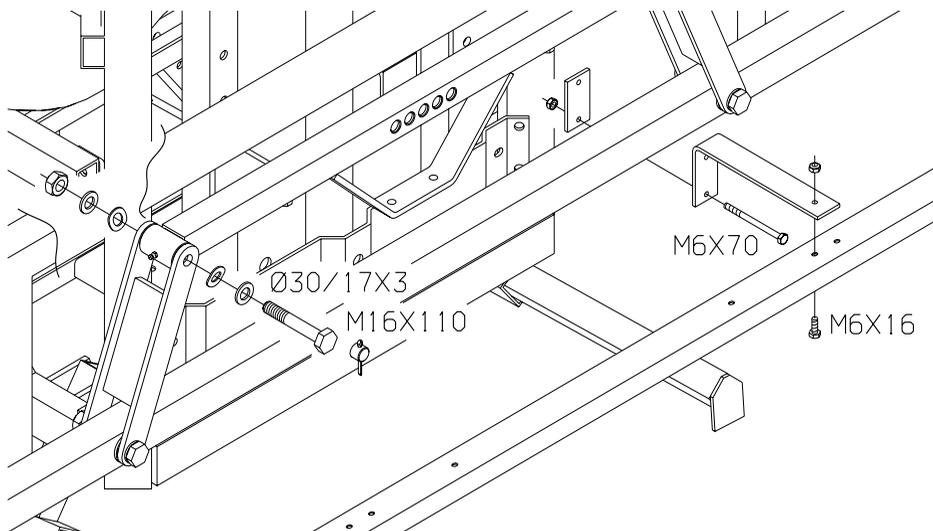


14. Connect hydraulic hose to the ram. Remember the spacer and secure with split pins. Fit the 4 bolts to the lift wagon but do not tighten. Lower wagon down the gantry. Fit the pin and secure with split pins. Adjust glide pads **A** so distance **B** is equal. Lubricate glide pads.



15. Fit bridge and centre part.

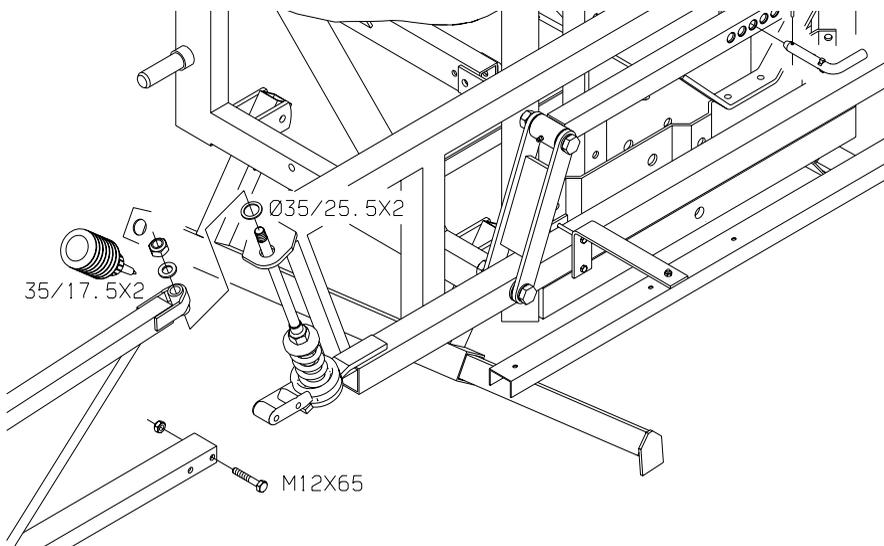




15a. Fit rear nozzle holder.

16. Lock the trapeze and fit boom wings. (Easiest with 2 persons).

17. Fit outer section locks. Do it with the boom unfolded to ensure the pins and holes line up.



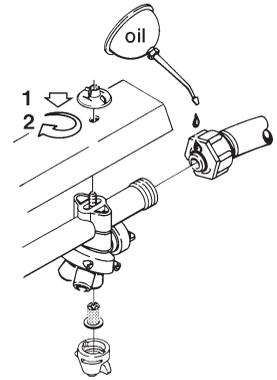
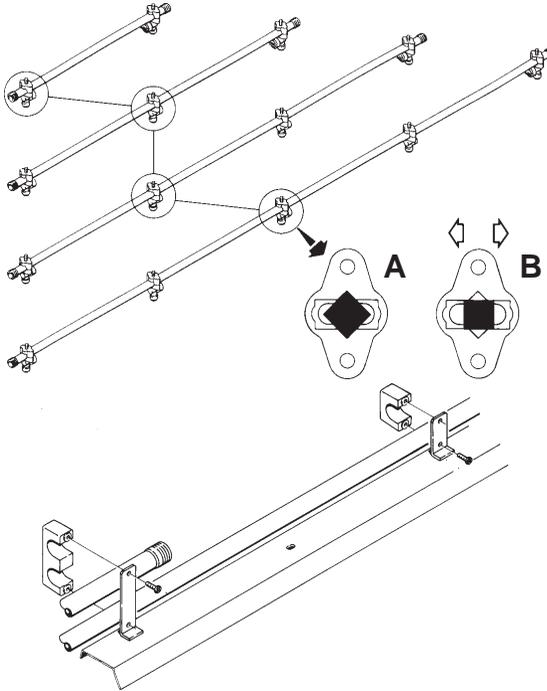
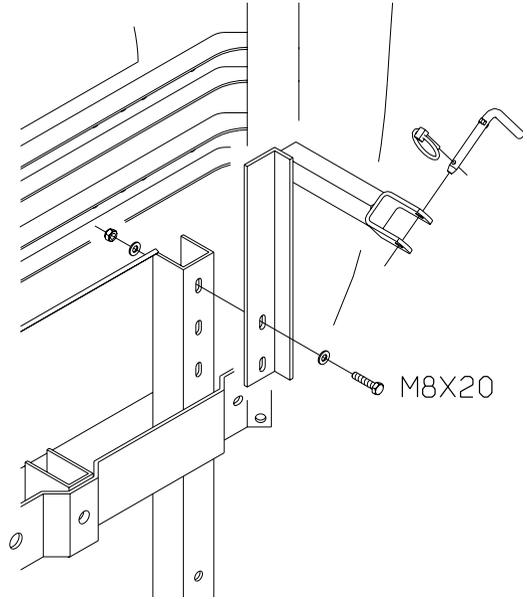
18. Fold the boom (left side first) and fit the transport brackets (shortest on left side).

19. Nozzle tubes are supplied with one lock nozzle saddle per tube **A**. The rest can slide lengthwise **B** allowing for extension and contraction.

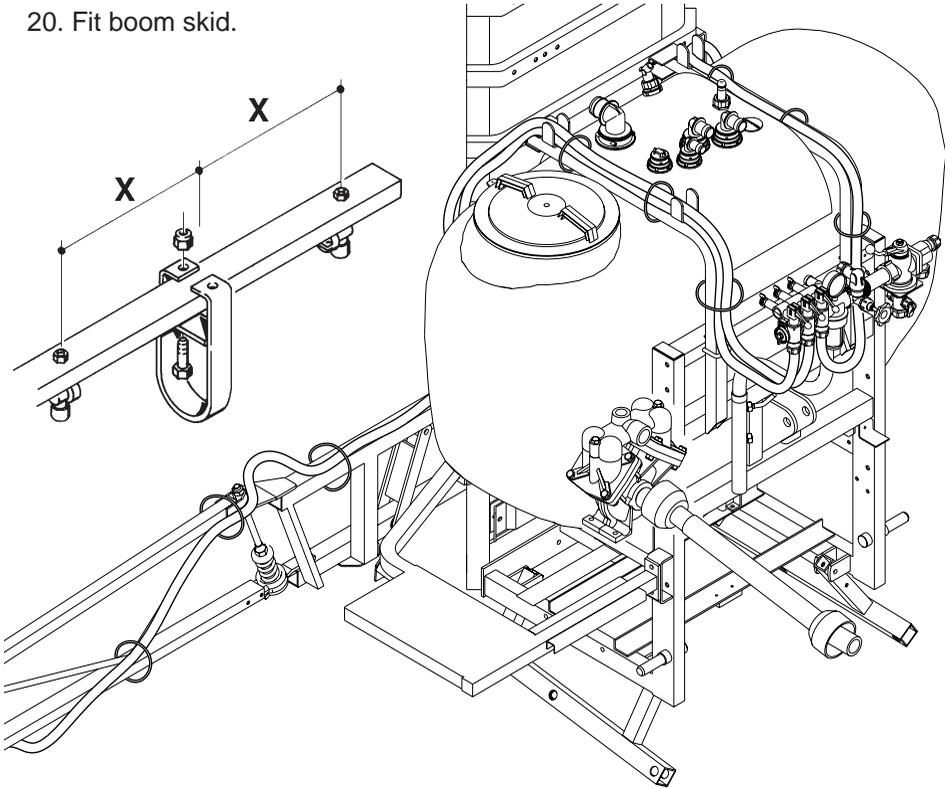
Tubes and hoses are connected. **REMEMBER:** Lubricate O-rings before fitting. Use non-mineral lubricant.

Fit tubes using synthetic nut. Press down (1), turn (2).

**Do not overtighten.** Fit filter and **COLOR TIP.**



20. Fit boom skid.



21. With boom at minimum height, secure hoses up over the side of the gantry to the operating unit. Check that hoses do not catch or pinch whilst **raising/lowering or folding/unfolding the boom**. Organize hoses in tidy bundle (may be necessary to shorten some) and secure in brackets and with straps.

Pressure check the sprayer with clean water. See Anti-freeze precautions in the instruction book if the sprayer is not stored frost free.

