Contents

EU Declaration of Conformity	2
Operator safety	
Description	
Function diagram BK operating unit	
Connecting the sprayer	
Transmission shaft	
Rear lights (if fitted)	8
Roadworthyness	8
Operating instructions	
Filling the main tank	8
Operation of the boom	
Adjustment of the BK controls	10
Drain valve operation	11
Maintenance	12
Cleaning the sprayer	12
Filters	14
Lubrication	14
Re-adjustment of the boom	16
Changing of valves and diaphragms	
Changing the ball seat in operating unit	18
Nozzle tubes and fittings	18
Replacement of transmission	
shaft protection guards	19
Replacement of transmission shaft cross journals.	19
Off-season storage	20
Operational problems	21
Technical specifications	22
Pictorial symbols	25
Spare parts	32





EU Declaration of Conformity

Manufacturer,

HARDI INTERNATIONAL A/S Helgeshøj Allé DK 2630 Taastrup DENMARK

Importer,

declare that the following product;

Adhere extra shipping package labels to inside cover.

A. was manufactured in conformity with the provisions in the COUNCIL DIRECTIVE of 14 June 1989 on mutual approximation of the laws of the Member States on the safety of machines (89/392/EEC as amended by directives 91/368/EEC and 93/368/EEC) with special reference to Annex 1 of the Directive on essential safety and health requirements in relation to the construction and manufacture of machines.

B. was manufactured in conformity with the standards current at that time that implements a harmonised standard in accordance with Article 5 (2) and other relevant standards.

Taastrup 1.4.98

Erik Holst Managing Director HARDI INTERNATIONAL A/S

Operator safety

Watch for this symbol \triangle . It means WARNING, CAUTION, NOTE. Your safety is involved so be alert!

Note the following recommended precautions and safe operating practices.

- Read and understand this instruction book before using the Read and understand the instruction book before using the equipment. It is equally important that other operators of this equipment read and understand the book.
- Local law may demand that the operator be certified to use spray equipment. Adhere to the law.
- \triangle Pressure test with clean water prior to filling with chemicals.
- Mear protective clothing.

- Rinse and wash equipment after use and before servicing.
- Depressurize equipment after use and before servicing.
- Never service or repair the equipment whilst it is operating.
- Disconnect electrical power before servicing.
- Always replace all safety devices or shields immediately after servicing.
- If an arc welder is used on the equipment or anything connected to the equipment, disconnect power leads before welding. Remove all inflammable or explosive material from the area.
- Do not eat, drink or smoke whilst spraying or working with contaminated equipment.
- Wash tools if they have become contaminated.
- In case of poisoning, seek doctor or ambulance. Remember to identify chemicals used.
- Keep children away from the equipment.
- \triangle Do not attempt to enter the tank.
 - If any portion of the instruction book remains unclear after reading it, contact your HARDI dealer for further explanation before using the equipment.



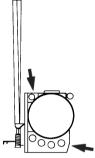


We congratulate you for choosing a HARDI plant protection product. The reliability and efficiency of this product depend on your care. The first step is to carefully **read and pay attention** to this instruction book. It contains essential information for the efficient use and long life of this quality product.

As the instruction book covers all JAZZ models, please pay attention to the paragraphs dealing with precisely your model. This book is to be read in conjunction with the Spray Technique book.

Lifting points

When loading or unloading the sprayer from a truck or lorry with a crane, use the lifting points as shown.





Description

The HARDI JAZZ tractor mounted sprayers are designed for the application of pesticides and liquid fertilizers in parks, gardens and amenity areas. They consist of a pump, a frame with tank of 200 litre capacity, BK 180 operating unit, a 6, 8 or 10 metre SB boom, 15 litre clean water tank, transmission shaft and calibration kit

The diaphragm pump is simple, with easily accessible diaphragms and valves that ensures liquid does not come in contact with the vital parts of the pump.

The tank with basket filter is made of impact-proof and chemical resistant polyethylene. It has a purposeful design with no sharp edges for easy cleaning. A suction filter is located inside the tank at the sump. The standard filling hose holder reduces the risk of mishaps at filling.

The BK 180 K operating unit consists of; agitator, safety valve, on/off function, pressure filter with pressure gauge, distribution valves with pressure equalization device, an extra valve for lance or spray gun and HARDI-MATIC. A constant volume per hectare of the liquid at varying speed in the same gear is ensured with HARDI-MATIC.

The SB boom is bolted to the tank frame and is fitted with spring loaded breakaways at the pivots. The TRIPLET nozzle holders allow for quick nozzle selection.

Identification plates

An identification plate fitted on the frame and pump is to indicate model, serial number and country of origin. If ordering spare parts, inform your dealer of these so the right model and version are described.



Function diagram BK operating unit

6.

7.

1. Suction filter

Safety valve

2. Pump

4.

3. Agitator

HARDI-MATIC
 Sprayer boom

Pressure filter with pressure gauge

Distribution valve with pressure equalization



5. On/off valve



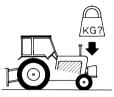
Connecting the sprayer

The sprayer is designed for three point suspension and is equipped with 22 mm pivots (category I).



WARNING: Note the weight of the sprayer. General recommendations are as follows:

- Add ballast to front of tractor.
- Increase tyre pressure
 (see tractor instruction book).
- Be careful when filling/lifting the sprayer for the first time.



- Ensure the operating unit and tractor do not touch.
- Travel at slower speeds when driving with a full tank. (The tractor braking effect will be reduced.)

Transmission shaft

Operator safety

To avoid accidents and personal injuries, note the following recommended precautions and safe operation practices.

Always STOP ENGINE before attaching the transmission shaft to tractor P.T.O. - most tractor P.T.O. shafts can be rotated by hand to facilitate spline alignment, when engine is stopped.

When attaching the shaft, make sure that the snap lock is FULLY EN-GAGED - push and pull shaft until it locks.



WARNING: ROTATING TRANSMISSION SHAFTS WITHOUT PROTEC-TION GUARDS ARE FATAL

Always keep protection guards and chains intact and make sure that it covers all rotating parts, including cross journals at each end of the shaft. Do not use without protection guard.

Do not touch or stand on the transmission shaft when it is rotating - safety distance: 1.5 metre.

Prevent protection guards from rotating by attaching the chains allowing sufficient slack for turns.

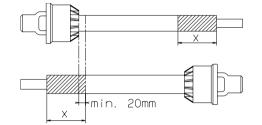
Make sure that protection guards around tractor P.T.O. and implement shaft is intact.

Always STOP ENGINE and remove the ignition key before carrying out maintenance or repairs to the transmission shaft or implement.

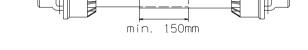
Installation of transmission shaft

Initial installation of the shaft is done as follows:

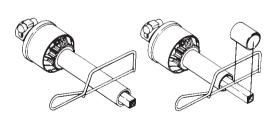
- 1. Attach sprayer to tractor and set sprayer in the position with shortest distance between the tractor and sprayer pump P.T.O. shafts.
- 2. Stop engine and remove ignition key.
- 3. If transmission shaft must be shortened, the shaft is pulled apart. Fit the two shaft parts at tractor and sprayer pump and measure how much it is necessary to shorten the shaft. Mark the protection guards.

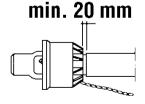


Note: The shaft must always have a minimum overlap 150 mm.



- 4. The two parts are shortened equally. Use a saw, and file the profiles afterwards to remove burrs.
- 5. Grease the profiles, and assemble male and female parts again.





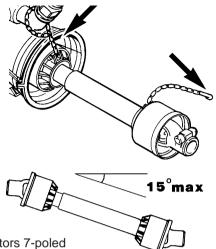








- 6. Fit the shaft to tractor and sprayer pump.
- **NOTE:** Female part towards tractor. Fit the chains to prevent the protection guards to rotate with the shaft.
- To ensure long life of the transmission shaft, try to avoid working angles greater than 15°.
- Transmission shafts with cone must be fitted by tightening the Allen screw to a torque of 40 Nm. Check again after 2 minutes use.



Connect plug for rear lights to the tractors 7-poled socket and check that rear lights, stop lights and direction indicators work properly before driving anywhere.

The wiring is in ISO accordance. See section on Technical specifications.



Roadworthyness

Rear lights (if fitted)

When driving on public roads and other areas where the highway code applies, or areas where there are special rules and regulations for marking and lights on implements, you should observe these and equip implements accordingly.



Operating instructions

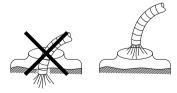
Filling the main tank

Water is filled into the tank by removing the tank lid located at right hand side of sprayer tank. It is recommended to use as clean water as possible for spraying purposes. Always fill water through the strainer basket to prevent foreign particles from entering the tank. An overhead tank can be used in order to obtain high filling capacity.



WARNING: Do not let the filling hose enter the tank. Keep it outside the

tank, pointing towards the filling hole. If the hose is lead into the tank and the water pressure drops at the water supply plant, chemicals may be siphoned back and contaminate the water supply lines, plant and well.



Operation of the boom

Remove boom transport lock pin if fitted. When unfolding (or folding) the initial force to release the spring loaded breakaways will be higher than the actual unfolding/ folding.

CAUTION: The breakaways must be correctly tensioned and lubricated. (see section on Boom breakaway) Replace boom transport lock pin when driving with folded boom.

Boom height

Correct boom height is very important in order to achieve the most optimal spray pattern. (See Spray Technique book).

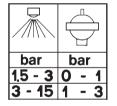
Small adjustments of the boom height can usually be made with the 3point suspension from the tractor - raising or lowering the sprayer.

On grounds where greater adjustments are needed the boom height can be changed manually by removing the 4 bolts holding the boom to the frame.

Note: This is best done by 2 persons or with a mechanical hoist.

Pulsation damper

The air pressure in the pulsation damper is pre-set at the factory to 2 bar. This covers spray working pressures between 3 and 15 bar. When using spray pressures outside this range, the air pressure should be adjusted as shown in the diagram. The diagram is also embossed on the damper.

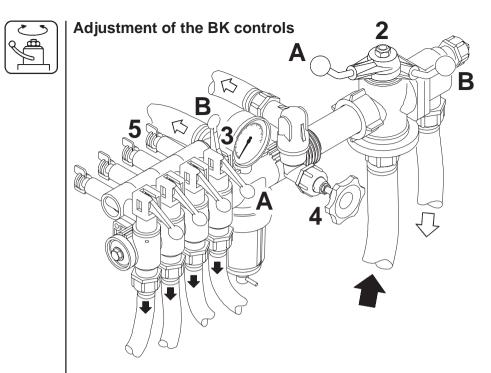


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- 1. Choose the correct nozzle. Make sure that all nozzles are the same type and capacity. See "Spray Technique" book.
- 2.Turn main ON/OFF handle 2 to ON position A.
- 3.Set all hand levers **3** on the distribution valve to ON position **A**.
- 4. Turn the HARDI-MATIC valve 4 anti-clockwise to its extreme position.
- 5.Put the tractor in neutral and adjust the P.T.O. thereby the number of revolutions of the pump corresponding to the intended travelling speed. **Note:** The P.T.O. revolutions must be kept between 300-600 r/min.
- 6.Adjust the HARDI-MATIC valve **4** so that the pressure gauge indicates the recommended pressure.

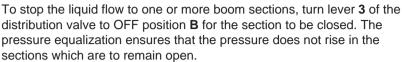
ADJUSTMENT OF PRESSURE EQUALIZATION:

- 7.Place the first lever 3 on the distribution valve in OFF position B.
- 8. Turn the adjusting screw 5 until the pressure gauge again shows the same pressure.
- 9. Adjust the other sections of the distribution valve in the same way.

Hereafter adjustment of pressure equalization will only be needed if you change to nozzles of other capacities.

10. Operating the control unit while driving:

To stop the liquid flow to the boom turn the ON/OFF handle **2** to OFF position **B**. This returns the pump output to the tank through the return system. The diaphragm anti-drip valves ensure instantaneous closing of all nozzles.



Drain valve operation

A drain valve cap is located under the tank. Unscrew it to drain tank. Be careful not to loose the seal.

Spray Technique - see separate book. Optional Extras - see separate books.





Maintenance

In order to derive full benefit from the sprayer for many years the following few but important rules should be kept:



Cleaning the sprayer

Guidelines

Read the whole label of the chemical. Take note of any particular instructions regarding recommended protective clothing, deactivating agents, etc. Read the detergent and deactivating agent labels. If cleaning procedures are given, follow them closely.

Be familiar with local legislation regarding disposal of pesticides washings, mandatory decontamination methods, etc. Contact the appropriate body, e.g. Dept of Agriculture.

Pesticide washings can usually be sprayed out on a soakaway. This is an area of ground that is not used for cropping. You must avoid seepage or run-off of residues into streams, water courses, ditches, wells, springs, etc. The washings from the cleaning area must not enter sewers. Drainage must lead to a soakaway.

Cleaning starts with the calibration, as a well calibrated sprayer will ensure the minimal amount of remaining spray liquid.

It is good practice to clean the sprayer immediately after use thereby rendering the sprayer safe and ready for the next pesticide application. This also prolongs the life of the components.

It is sometimes necessary to leave spray liquid in the tank for short periods, e.g. overnight, or until the weather becomes suitable for spraying again. Unauthorized persons and animals must not have access to the sprayer under these circumstances.

If the product applied is corrosive, it is recommended to coat all metal parts of the sprayer before and after use with a suitable rust inhibitor.

Remember: Clean sprayers are safe sprayers. Clean sprayers are ready for action. Clean sprayers can not be damaged by pesticides and their solvents. 1.Dilute remaining spray liquid in the tank with at least 10 parts water and spray the liquid out in the field you have just sprayed.

NOTE: It is advisable to increase the forward speed (double if possible) and reduce the pressure. For S4110 nozzles, pressure may be reduced to 1.5 bar.

- 2.Select and use the appropriate protective clothing. Select detergent suitable for cleaning and suitable deactivating agents if necessary.
- 3. Rinse and clean sprayer and tractor externally. Use detergent if necessary.
- 4.Remove tank and clean. Be careful not to damage the mesh. Replace when the sprayer is completely clean.
- 5.With the pump running, rinse the inside of the tank. Remember the tank roof. Rinse and operate all components and any equipment that has been in contact with the chemical.

Before opening the distribution valves and spraying the liquid out, decide whether this should be done in the field again or on the soakaway.

6.After spraying the liquid out, stop the pump and fill at least 1/5 of the tank with clean water. Note that some chemicals require the tank to be completely filled. Add appropriate detergent and/or deactivating agent, e.g. Washing soda or Triple ammonia.

NOTE: If a cleaning procedure is given on the chemical label, follow it closely.

- 7.Start the pump and operate all controls enabling the liquid to come in contact with all the components. Leave the distribution valves until last. Some detergents and deactivating agents work best if left in the tank for a short period. Check the label.
- 8.Drain the tank and let pump run dry. Rinse inside of tank, again letting the pump run dry.
- 9. Stop the pump. If the pesticides used have a tendency to block nozzles and filters, remove and clean them now.
- Replace all the filters and nozzles and store the sprayer. If, from previous experiences, it is noted that the solvents in the pesticide are particularly aggressive, store the sprayer with the tank lid open.
 NOTE: If the sprayer is cleaned with a high pressure cleaner we recommend lubrication of the entire machine.







Filters

Clean filters ensure :

- Sprayer components such as valves, diaphragms and operating unit are not hindered or damaged during operation.
- Nozzle blockages do not occur whilst spraying.
- Long life of pump. A blocked suction filter will result in pump cavitation.

The main filter protecting sprayer components is the suction filter inside the tank at the sump. Check it regularly. Also regularly check nozzle filters.

BK Pressure filter / In Line Filters (if fitted)

The BK operating unit has a built-in pressure filter. Unscrew the filter bowl to inspect and clean the filter.

The boom may be equipped with In Line Filters. Unscrew the filter bowl to inspect and clean the filter.



Lubrication

Recommended lubrication is shown in following tables. Use ball bearing grease (lithium grease No.2)

NOTE: If the sprayers are cleaned with a high pressure cleaner or it has been used to spray fertilizer, we recommend lubrication of the entire machine.



- 5 Position on sprayer



Oil



Grease



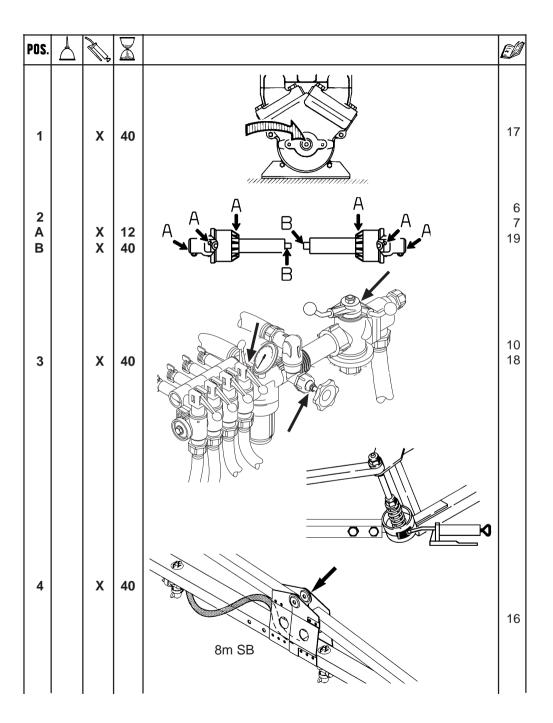
Operation hours

Page to find more information



Winter protection/ off-season storage







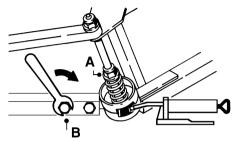
Re-adjustment of the boom

After having used the sprayer for some days the boom should be adjusted as follows:

When adjusting the sprayer must be on level ground with unfolded boom.

Boom breakaway

The function of the breakaway is to prevent or reduce boom damage if it should strike an object or the ground. If it is overtight, it will not function. If it is too loose, it will yawn (forward and back movement) under spraying.



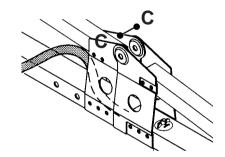
Lubricate coupling before

adjusting spring tension. Slacken screw nut **A** to decrease breakaway resistance. Do not overtighten; better to loose than over-tight. Again minor adjustments in the field may be necessary.

Ensure also channel bolts **B** are tight.

Outer section (8m boom)

The hinge should be firm. If overtight it is difficult to fold. To adjust, tighten or loosen nuts **C**.



17

Changing of valves and diaphragms

Valves

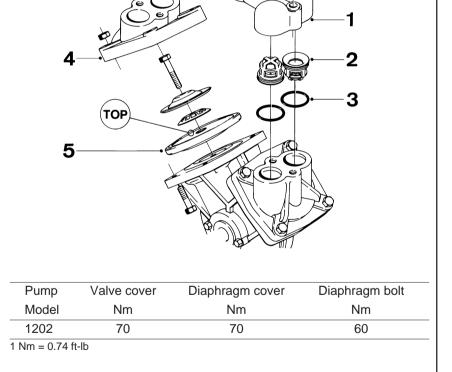
Dismantle valve compartment (1). Before changing the valves (2) note the orientation of the valves so that they may be replaced correctly.

It is recommended to use new gaskets (3) when changing or checking the valves.

Diaphragms

Remove the diaphragm cover (4) after having dismantled the valve compartment as indicated above. The diaphragm (5) may then be changed. If fluids have reached the crankcase, re-grease the pump thoroughly. Check also the drain hole at the bottom of the pump is not blocked.

Model 1202







Changing the ball seat in operating unit

If the main ON/OFF valve does not seal properly (dripping nozzles when main ON/OFF valve is closed), the ball and seat should be checked.

Remove the 2 bolts fixing the main ON/OFFpressure valve unit to the bracket, unscrew the union nut A and pull the valve away from the distribution valves.

Check the ball for sharp edges and scratches, and check the ball seat for cracks and wear - replace if necessary.

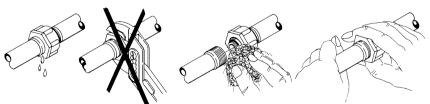
Nozzle tubes and fittings

Poor seals are usually caused by:

- Missing O-rings or gaskets
- Damaged or incorrectly seated O-rings
- Dry or deformed O-rings or gaskets
- Foreign bodies

Therefore, in case of leaks: **DO NOT** over-tighten. Disassemble, check condition and position of Oring or gasket, clean lubricate and reassemble. For **radial** connections only hand tighten them.





The O-ring to be lubricated **ALL THE WAY ROUND** before fitting on to the nozzle tube.

For axial connections, a little mechanical leverage may be used.



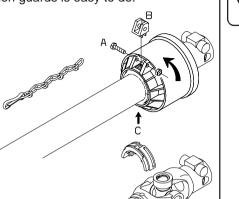
Replacement of transmission shaft protection guards

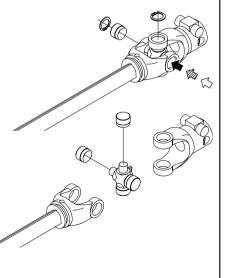
The replacement of defective protection guards is easy to do.

- Remove bolt A, lock B and grease nipple C. Twist universal cross cover 1/4 turn and pull it backwards.
- 2. Remove the synthetic bearings and protection tube.
- 2a. Remove inner bush from protection tube.
- Assemble again in reverse order, using new parts where necessary. Remember to fit chains again.
- Grease bearings. Use only genuine HARDI spare parts to service the transmission shaft.

Replacement of transmission shaft cross journals.

- 1. Remove protection guard as described previously.
- 2. Remove Seeger circlip rings
- Press the cross journal sidewards - use hammer and mandrel if necessary.
- 4. Remove needle bearing cups and cross journal can now be removed.
- 5. Carefully remove needle bearing cups from new cross journal and install it in reverse order. Before fitting the needle bearing cups again, check that needles is placed correctly. Avoid dust and dirt in the new bearings.









Off-season storage

When the spraying season is over you should devote some extra time to the sprayer before it is put away.

Hoses

Check that none of the hoses are caught or have sharp bends.

A leaky hose can give an annoying delay in the middle of the spraying job. Therefore check all the hoses and change if there is any doubt about the durability.

Paint

Some chemicals are very hard on paints. It is therefore well advised to remove rust, if any, and then touch up the paint.

Tank

Check that no chemical residues are left from the last spraying. Chemical residues must not be left in the tank for a long time. It will reduce the life of the tank. See Cleaning the sprayer.

Anti-freeze precaution

If the sprayer is not stored in a frost-proof place you should take the following precautions: Put at least 5 litres of 33% anti-freeze mixture in the tank and let the pump run a few minutes so that the entire system including spray hose are filled. Remove the glycerine filled pressure gauge and store it frost free in vertical position.

The anti-freeze solution also hinders the O-rings and gaskets from drying out.

Operational problems

In cases where breakdowns have occurred the same factors always seem to come into play:

- Minor leaks on the suction side of the pump will reduce the pump capacity or stop the suction completely.
- A clogged suction filter will hinder or prevent suction so that the pump does not operate satisfactorily.
- Clogged up pressure filters will result in increasing pressure at the pressure gauge but lower pressure at the nozzles.
- Foreign bodies stuck in the pump valves with the result that these cannot close tightly against the valve seat. This reduces pump efficiency.
- Poorly reassembled pumps, especially diaphragm covers will allow the pump to suck air resulting in reduced or no capacity.

Therefore ALWAYS check:

- 1. Suction and nozzle filters are clean.
- 2. Hoses for leaks and cracks, paying particular attention to suction hoses.
- 3. Gaskets and O-rings are present and in good condition.
- 4. Pressure gauge is in good working order. Correct dosage depends on it.
- 5. Operating unit functions properly. Use clean water to check.





Fault	Probable cause	Control / remedy		
No spray from	Air leak on suction.	Check suction tube and fittings.		
blower when turned on.		Check tightness of pump diaphragr and valve covers.		
	Air in system.	Fill suction hose with water for initia prime.		
	Suction / nozzle filters clogged.	Clean filters.		
Lack of	Incorrect assembly.	Recheck assembly.		
pressure.	Pump valves blocked or worn.	Check for obstructions and wear.		
	Defect pressure gauge.	Check for dirt at inlet of gauge.		
Pressure dropping.	Filters clogging.	Clean all filters. Fill with cleaner water.		
	Nozzles worn.	Check flow rate and replace nozzles if it exceeds 10%.		
	Tank is airtight.	Check vent is clear.		
Pressure increasing.	Nozzle filters begin- ning to clog.	Clean all filters.		
Formation of foam.	Air is being sucked into system.	Check tightness / gaskets / O-rings of all fittings on suction side.		
	Excessive liquid agitation.	Use foam damping additive.		
Liquid leaks from bottom of pump.	Damaged diaphragm.	Replace. See section Changing valves and diaphragms.		



Technical specifications

Pump power consumption and capacity

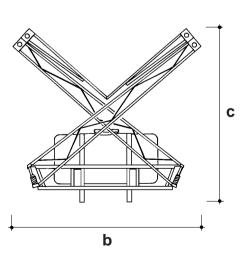
1202/9.0	r/min									
	30	00	40	00	50	00	5	40	6	00
bar	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW
0	56	0,91	72	1,28	93	1,52	99	1,63	112	1,79
5	40	1,11	53	1,36	66	1,60	71	1,71	79	1,86
10	38	1,38	52	1,74	64	1,79	69	1,87	77	2,07
15	37	1,60	50	1,97	62	2,32	67	2,48	75	2,76
Rotation per	min.	r/min Capacity I/			l/min	Suction	on heigł	nt	0,0 m	
Power consu	Imption	kW	Max. p	oressure	Э	15bar	Weigl	ht		24,0 kg

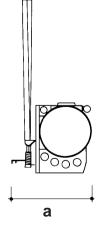
Measure and weights



			т				
Tank size	Min. boom height	Max. boom height	Α	В	С	D	E
	H mm	H mm	mm	mm	mm	mm	mm
200	180	755	680	380	588	22	26

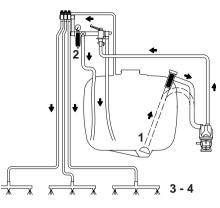
Tank	Spraying	Pump	Measure	Weight
size	width	model	axbxc	
I	m		cm	kg
	6	1202	$110 \times 190 \times 176$	149
200	8	1202	$100 \times 190 \times 216$	170
	10	1202	$100 \times 190 \times 216$	175







Filters and nozzles



Pos.	Mesh/ colour	Description/ nozzle
1	30	Suction filter
2	50	Pressure filter
3	50 blue	Nozzle 4110-20
4	50 blue	Nozzle 4110-24
	50 blue	Nozzle 4110-36
	1	

Temperature and pressure ranges

Operating temperature range:	20 to 40 $^{\circ}$ C.
Operating pressure for safety valve:	15 bar

Rear lights

Position	Wire colour
1. LHS direction indicator	Yellow
2. Free	Blue
3. Frame	White
4. RHS direction indicator	Green
5. RHS rear position lamp	Brown
6. Stop lamps	Red
7. LHS rear position lamp	Black

Materials and recycling

TankHDPEHosesPVCValvesmainly glass-filled PA.FittingsPA

Disposal of the sprayer

When the equipment has completed its working life, it must be thoroughly cleaned. The tank, hose and synthetic fittings can be incinerated at an authorized disposal plant. The metallic parts can be scrapped. Always follow local legislation regarding disposal.

Pictorial symbols



Description



Function



Connection



Warning



Operating

Liquid flow



Service/adjustment



Pressure

Cleaning

Lubrication



Winter storage

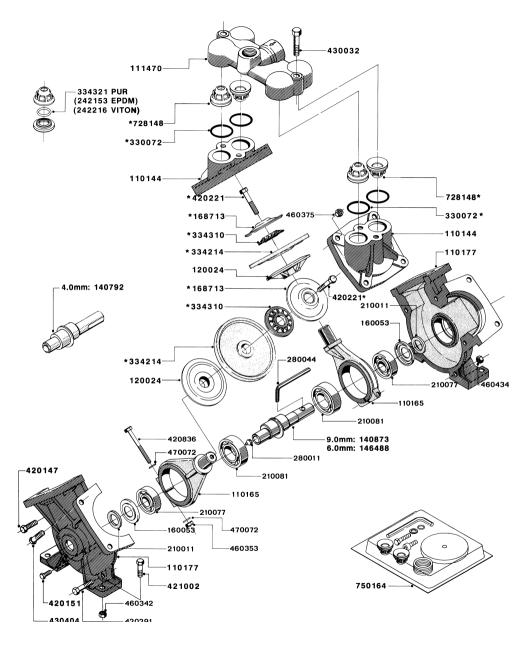
Operational problems

Technical specifications

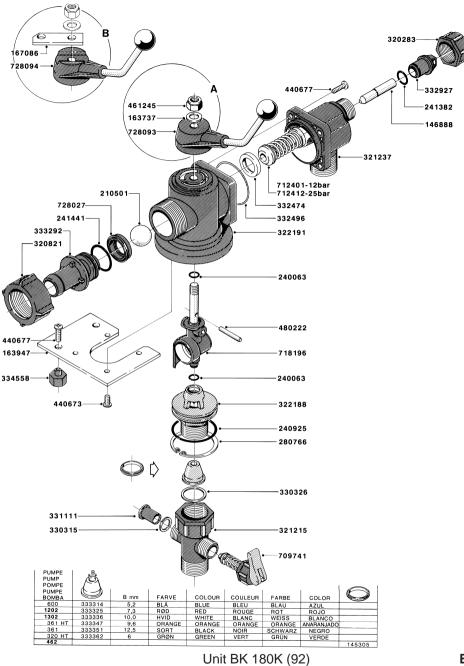


HARDI

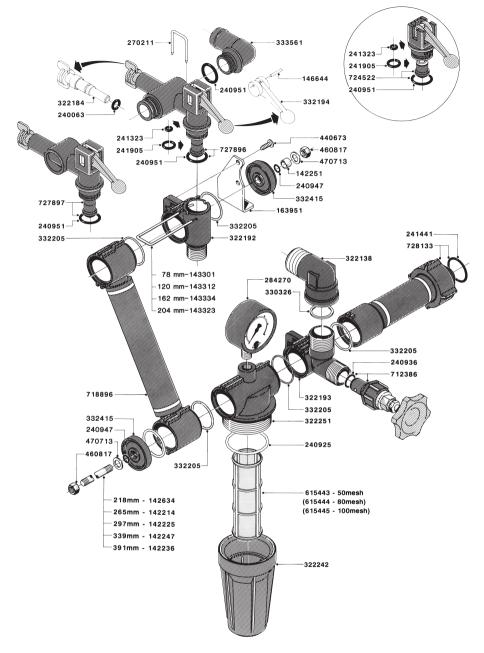




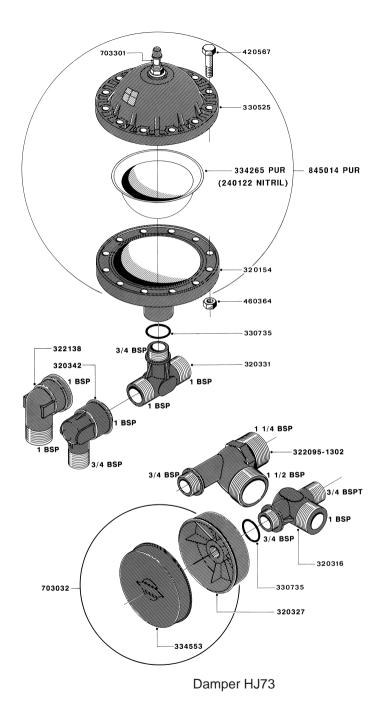
1202/foot

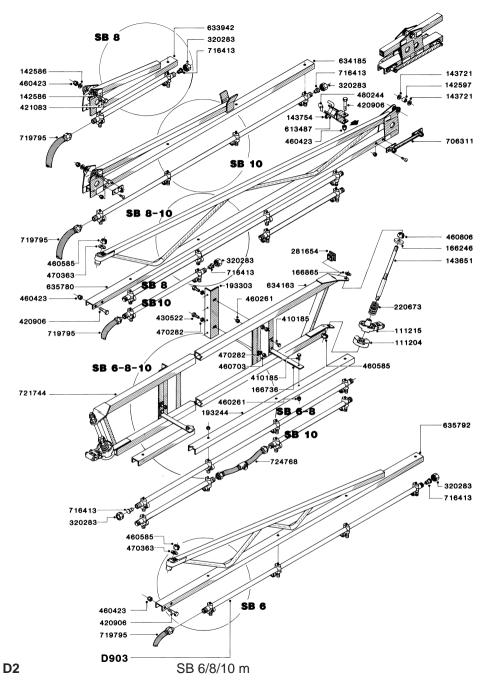


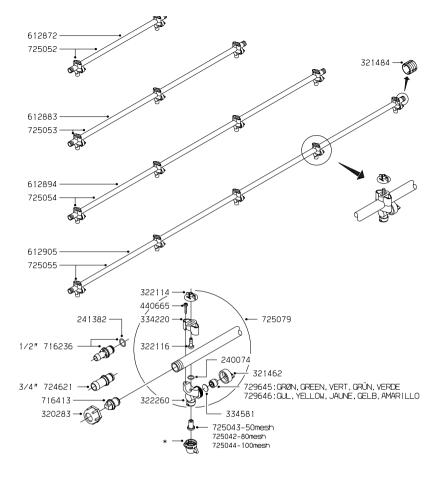
B9



Distributor BK 180K (94)



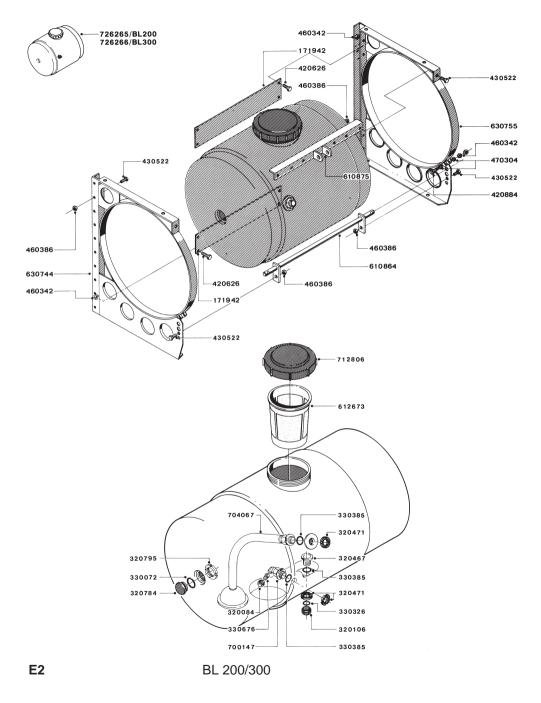


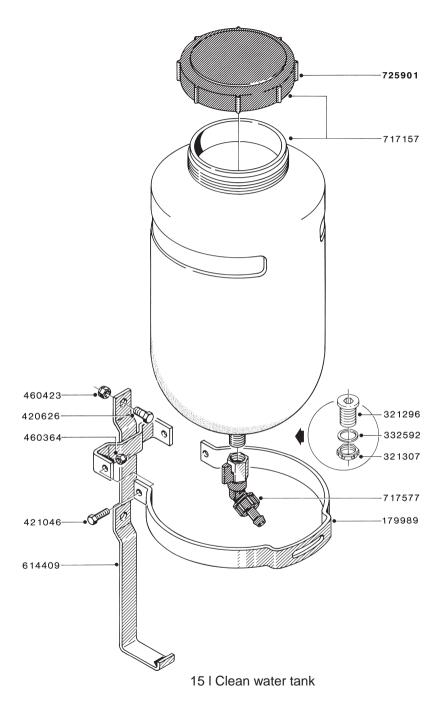


*		FARVE	COLOUR	COULEUR	FARBE	COLOR
371469	S4110-08	VIOLET	VIOLET	VIOLET	VIOLETT	VIOLETA
371470	S4110-10	BRUN	BROWN	BRUN	BRAUN	MARRON
371471	S4110-12	GUL	YELLOW	JAUNE	GELB	AMARILLO
371472	S4110-14	ORANGE	ORANGE	ORANGE	ORANGE	ANARANJADO
371473	S4110-16	RØD	RED	ROUGE	ROT	ROJO
371474	S4110-18	HVID	WHITE	BLANC	WEISS	BLANCO
371475	S4110-20	GRØN	GREEN	VERT	GRÜN	VERDE
371476	S4110-24	TURKIS	TURQUOISE BLUE	BLEU TURQUOISE	TÜRKIS	AZUL TURQUI
371477	S4110-30	BLÁ	BLUE	BLEU	BLAU	AZUL
371478	S4110-36	GRÅ	GREY	GRIS	GRAU	GRIS
371479	S4110-44	ELFENBEN	I VORY	IVOIRE	ELFENBEIN	MARFIL

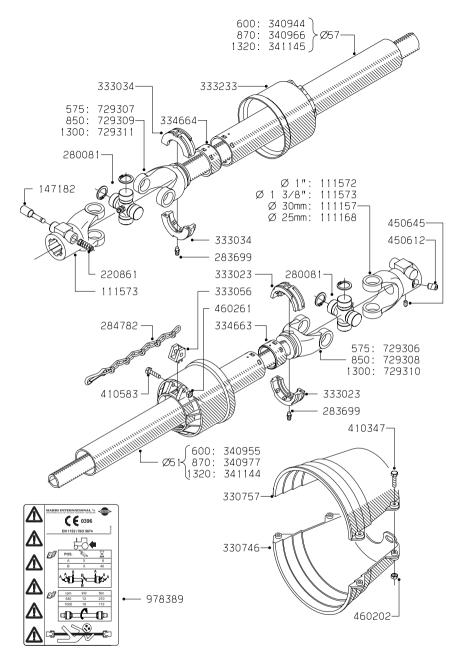
Boom tube SNAP FIT

D903





K107



K604

Shaft (94)





Notes: