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## HARDI Solenoid Control Instruction book 670770-GB-11/2002

HARDI INTERNATIONAL A/S reserve the right to make changes in design or to add new features without any obligation in relation to implements purchased before or after such changes.



### 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 06.11.2002

Benhur

Product Development Manager Lars Bentsen HARDI INTERNATIONAL A/S

## **Operator safety**

	Watch for this symbol . It means WARNING, CAUTION, <b>NOTE.</b> 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 equip- ment. It is equally important that other operators of this equipment read and understand this book.
Â	Local law may demand that the operator be certified to use spray equipment. Adhere to the law.
	Pressure test with clean water.
	Wear 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.
Â	Do not eat, drink or smoke whilst spraying or working with contaminated equipment.
	Wash and change clothes after spraying.
Â	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.
	If any portion of this instruction book remains unclear after reading it, contact your HARDI dealer for further explanation before using the equipment.



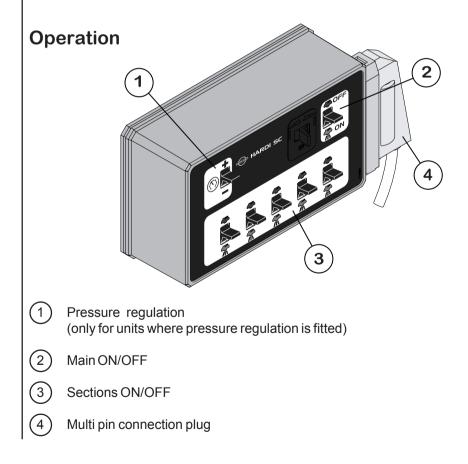


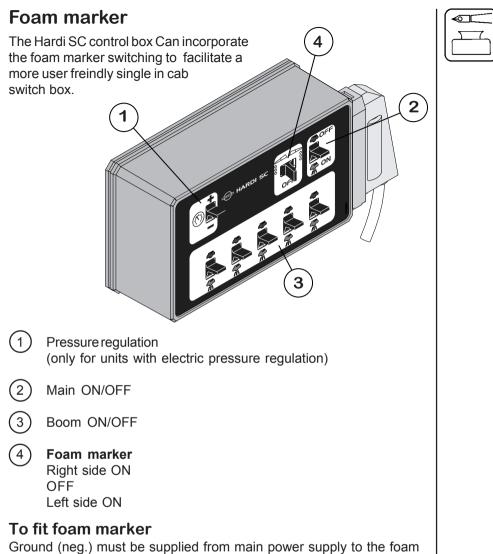
### Description

HARDI SC Solenoid Control is a remote control unit for your sprayer. Simple to use and maintain, the HARDI SC unit is perfect as your first electric remote control.

Available in 3,4 or 5 section control kits with choice of electric or manual pressure regulation.

The Hardi SC remote operated solenoid control system has been designed for in cab sectional control of spraying equipment. Ideal for sectional control on small and medium sized spraying equipment. The SC solenoids are easy to install and simple to maintain. The control unit can include foam marker operation- see page 9





marker.

Right and left (pos.) shall be connected to 5th section cable (See electric diagram).

For adjusting frequency of foam blobs - adjustment are to be made on the foam marker compressor unit.

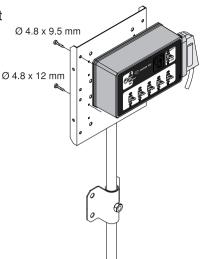


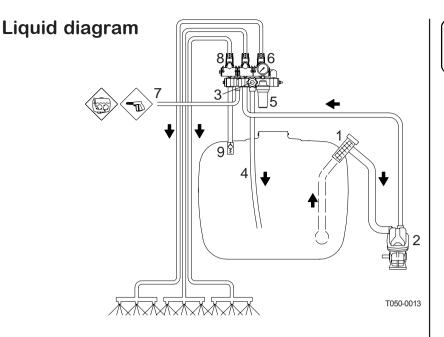
### SC operating unit control box

The control box i fitted at a convenient place in the tractor cabin. The control box has 4 screw holes in the back cover. Mount it on flat surface, alternative use the HARDI universal bracket.

Power requirement is 12V DC. Note Polarity!

For EVC: Brown pos. (+), Blue neg. (-).

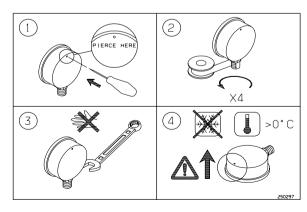




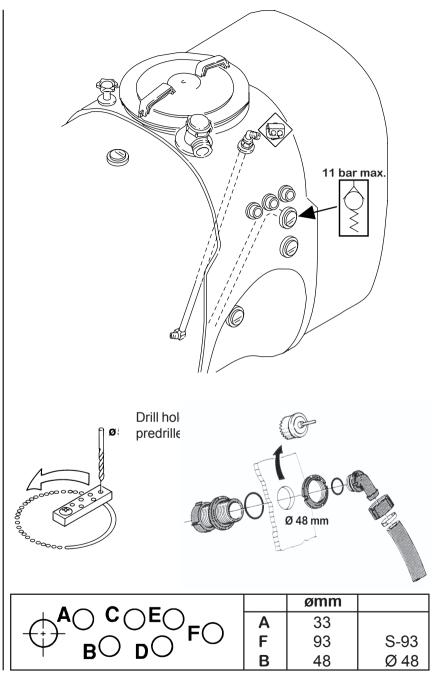
- 1. Suction filter
- 2. Pump
- 3. Pressure control (manual or electric)
- 4. Liquid return to tank
- 5. Pressure filter

- 6. Pressure gauge
- 7. Outlet for prewssure agitation or spraygun
- 8. Solenoid sectin valves

### Assembly instructions







### **Fault finding**



Symptom	Problem	Solution
Fuse blow	Polarity wrong	Change polarity
	Short circuit on cabels	Renew hamess
	Defective diode in	Renew controlbox
	control box	(PCB)
	Section valve power	Renew valve
	consumption to high	
Section valve	Fuse blown	Renew fuse
will not open	Section valve defective	Renew section valve
Valve will not	Dirt in servo hole	C lean side hole
close	in diaphragm	in diaphragm
Leaking	Center bolt loos	Tighten centerbolt
	Defective pressure	Renew pressure
	relief valve	reliefvalve
	Defective seals	Reliefvalve
Section valve,	Current to low	Check 12 volt
pressure valve,		powersupply
HARDI-Matic		
works slow		
Electric pressure	Relais worn	Change relais
valve,		
HARDI-Matic		
not works		

### **Tecnical specification**

Power supply: 12 V

Fuse: 6.3 A

Temperature range: 2°C - 60°C

Power consumption pr. valve: 800mA

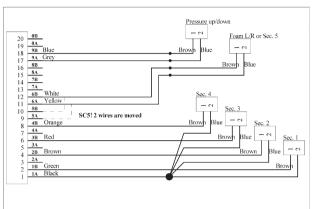
Max. pressure: 11 bar

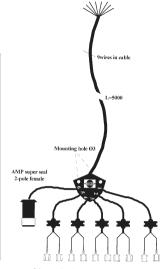
Maximum alloved flow for control unit: 20 l/min

Pressure loss	l/min	10	20
over the valve	bar	0.3	1

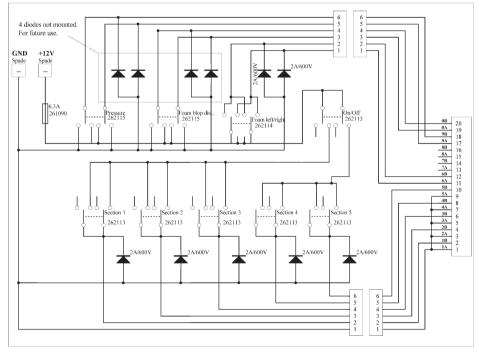
### Electric diagram

### 280233 connection cable for armature SC3 & SC4 72119600 connection cable for armature SC5

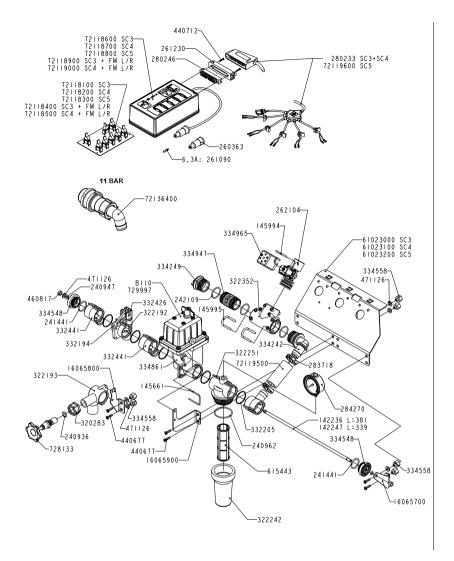




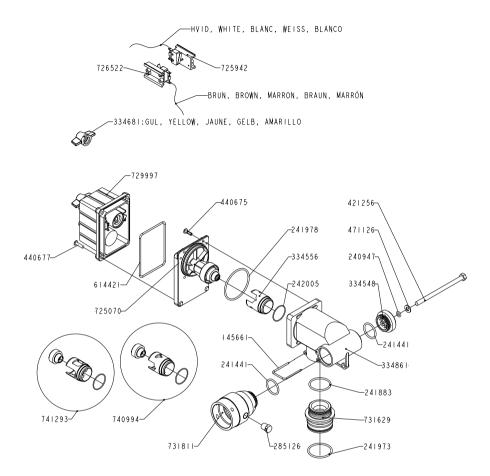
Crimp terminal 6,35mm non isolated Female Push-On

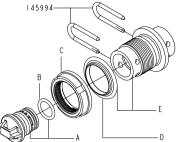


### SC3..5 Control box



B523



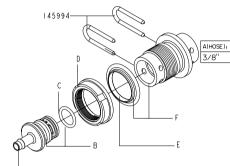


A(HOSE UNION):	B(GASKET):	C(UNION NUT):	D(GASKET):	E(BUSH):
726577	242108	322106	324259	726462

B(HOSE UNION): C(GASKET):

242108

726554



A 145994
F CONTRACTOR
B E
145994
A
F
E B

A(HOSE):	B(HOSE UNION):	C(GASKET):	D(UNION NUT):	E(GASKET):	F(BUSH):
3/8"	726566	242108	322106	324259	726462
1/2"	726567	242108	322106	324259	726462

D(UNION NUT): E(GASKET):

322106

324259

F(BUSH):

726462

A(THREAD):	B(HOSE UNION):	C(GASKET):	D(UNION NUT):	E(GASKET):	F(BUSH):
1/8" RG	726693	242108	322106	324259	726462

L101

## Notes:

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