



**INSTRUCTIONS  
FOR ASSEMBLY  
AND USE**  
SUPER SAM AND  
SAM CLUB

**R20090812**



**Super SAM**



**SAM Club**

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# INTRODUCTION

## Schelde Sports

The name Schelde Sports is indicative of our core business: manufacturing and supplying a wide range of sports products and sports equipment. A good athlete wants to improve and deliver a good performance. So do we, which is why we are continuously working on the development and improvement of our products and services. Our user-friendly website is designed to make it even easier for municipalities, federations, schools, (top) sports clubs, architects and contractors to explore our range. Schelde Sports is always open to any comments or remarks, in fact, anything that may make the experience even more user-friendly for you.

Let us know at [export@scheldesports.be](mailto:export@scheldesports.be).

## The Company

Schelde Sports is the leading manufacturer and distributor of sports equipment for ball sports. Over the last hundred years the company has built a worldwide reputation as a supplier of innovative and qualitative products for education, club sport and top-level sport.

Schelde Sports holds ISO 9001 certification. This ISO 9001 certificate is the international standard for the quality management system. As a result Schelde Sports is able to meet all the current high requirements in terms of quality assurance. The company exports its products to more than 130 countries worldwide.

## Durable and innovative

That is what Schelde Sports is all about! A strong Research & Development department and more than 100 years of experience have yielded 'Superior by Design' products: sports equipment that meets the highest requirements in terms of use and lifespan. A visit to one of the sports facilities equipped by Schelde Sports will convince you of Schelde Sports top-class quality.

## Expertise and advice

Schelde Sports was founded 110 years ago. Our expertise is apparent in the advice that the Schelde Sports advisers provide free of charge. Whether you are planning a large project or a small hall, the Schelde Sports experts will give advice based on your wishes and on the norms put in place by the government and the various sports federations.

## Mission Statement

Schelde Sports' key values are incorporated in its carefully formulated Mission Statement:

1. Optimum collaboration with principals and business partners, aimed at achieving customer satisfaction and continuity.
2. Giving advice and offering tailor-made solutions in terms of the equipment of interior and exterior sports accommodations of the highest quality level possible.
3. Producing (or commissioning the production of) and supplying sports equipment of the highest quality at the most advantageous price.
4. Offer long-term employment and sufficient career possibilities to personnel in order to guarantee investments in the training of personnel on the one hand and job satisfaction on the other hand so the company also stands to benefit from this.
5. Supplying and maintaining sport accommodations guaranteeing maximum sports practice, safety and durability.

## School and recreation (domestically)

Schelde Sports traditionally has a strong presence in the top sport segment but we also have a lot of equipment for schools and for recreational purposes. In the Netherlands, Schelde Sports' home country, high standards apply as regards the equipment for sports facilities and play rooms. Schelde Sports meets all these requirements more than sufficiently. Whether you are looking for the simple basic equipment for gyms and play rooms to advanced electronically adjustable units in large sports, Schelde Sports serves every market segment in the same professional manner. In addition to the more traditional articles we increasingly supply lighter and user-friendly equipment, in accordance with the wishes of teachers and users.

## Top-level sport (internationally)

In addition to supplying equipment for schools and sports halls Schelde Sports also focuses on the top-level sports segment.

Schelde Sports has built considerable experience in this segment, from the professional basketball league in the US, where Miami Heat became the 2006 champion with SAM basketball backstops supplied by Schelde Sports, to the Olympic Games, of which Schelde Sports has been a trusted supplier over the years. Because the best athletes worldwide should also be able to play in the best possible conditions. And Schelde Sports helps provide these.

Schelde Sports for example invented the often copied Basketball SAM system (Spring Assisted Mechanism) and was the first company to partner in the FIBA Study Center.

Schelde Sports has a series of patents and product developments to its name in the field of basketball, volleyball and other sports. Thanks to an innovative and market-oriented product development team Schelde Sports is always one step ahead of the norms of the various sports federations.



# SAFETY

## 1. General information

Although this manual has been compiled with great care errors and omissions cannot be ruled out. Schelde Sports therefore accepts no liability, for direct or indirect damage, caused by or in connection with the use and application of these instructions for assembly. Safety regulations as well as the general rules in this manual must be complied with every situation.

## 2. How to use this manual

This manual contains instructions for assembly. Read this manual and all the instructions pertaining to the assembly of this product carefully and make sure the manual is always within reach.

To reduce the risk of (serious) injury read all the warnings, precautions and instructions in this manual and apply them.

**The supervisor should point out to users that the manual should be read before using this product.**

## 3. Warning.

- The backboard, ring and net as well as the padding may only be assembled by qualified personnel.
- Always take into account the applicable local and general building and safety regulations.
- All the parts may only be used for basketball; the warranty shall become void in case of other use.
- Always work with a team of minimum two persons.
- Always assemble the backboard together with the ring.
- **Do not remove the transport bracket before assembling the backboard. Removing the transport bracket without the backboard in place can cause serious accidents. The springs are under great tension.**
- Keep the transport bracket and attachment hardware at hand.
- The backboard is made of tempered glass, exercise great caution!

## 4. Introduction.

Movable foldable basketball backstop, type Super SAM 325, Super SAM Multiadjust, Super SAM 245, with patented DSF system. SAM 225 Club, SAM 165 Club with patented APF system. Tempered glass SHORT backboard, 105x180 cm (10 year warranty), 12 mm thick, encased in a full-perimeter steel frame. Includes super padding. With drunk ring + super net. This basketball backstop comes with a special spring assisted mechanism so the ring can be easily raised and locked at various heights.

The unit has the required counterweights and floor connectors at the front and back of the basic frame. Height in storage position maximum 210 cm. Approved and recommended by FIBA. The unit is delivered unassembled; a padding set, backboard, ring and net, and braces, backboard padding, feet of the floor pedestals and the assembled unit with a kit of assembly tools.

The cover plate and cover for the springs and the ballast have already been pre-assembled at the factory.





Range Checklist	Super SAM 325	Super SAM 245	Super SAM MA	225 Club	165 Club
Tempered glass backboard	S	S	S	S	S
Multidirectional dunk ring 180°	S	S	S	-	-
Unidirectional dunk ring	-	-	-	S	S
4 swivel wheels (front, 2 x 2)	-	S	-	S	S
6 swivel wheels (front, 2 x 3)	S	O	S	O	O
4 fixed wheels (rear, 2 x 2)	-	-	-	S	S
6 fixed wheels (rear, 2 x 3)	S	S	S	O	O
Maintenance-free pivot bearings	S	S	S	S	S
Folded height max. 210 cm	S	S	S	S	S
Forklift tubes in base frame	S	S	S	S	S
305 cm and 260 cm ring height settings	S	S	S	S	S
Automatic lock on telescopic rod	S	S	S	S	S
Lockable deadlock tensioner	S	S	S	-	-
Lockable beam-catch in stored position	S	S	S	S	S
Front-, sides and neck padding set	S	S	S	-	-
Front and sides padding set	-	-	-	S	S
Automatic DSF (Dynamic Sub Frame)	S	S	S	-	-
Automatic pedestal feet APF	-	-	-	S	S
Manual operation of DSF/APF	O	O	O	O	O
Front locator pins and floor plates	S	S	S	S	S
Integrated rear anchor system and floor plate	S	S	S	S	S
No-tool ring height adjustment in base frame	S	S	S	-	-
Padding in black/red/orange/yellow/green	O	O	O	O	O
Extra spring for shot clock compensation	S	O	S	-	-
Shot clock brackets	O	O	O	O	O
100% enclosed ballast weight	S	S	S	S	S
Additional ballast weight in base	O	O	O	O	O
FIBA approved	LEVEL 1	LEVEL 3	LEVEL 1	LEVEL 3	-
LED strip on backboard	O	O	O	O	O

S = standard

O = option

- = not available

The supervisor should point out to users that the manual should be read before using this product.

# CERTIFICATION

The unit has been FIBA certified for top level (level 1 and level 3) competitions and complies with the European standard EN1270:2005 Playing field equipment. Basketball equipment. Functional and safety requirements, test methods.




## CERTIFICATE OF APPROVAL

Valid until: December 31, 2012  
Issued to:

### SCHELDE SPORTS N.V.

FIBA Study Centre Partner since: 1994

FIBA (Fédération Internationale de Basketball) hereby declares, by means of this certificate, that the basketball equipment, indicated below, fulfils the standards specified in the latest edition of the Research & Study Centre Approval Programme and is therefore qualified as an

## OFFICIAL TECHNICAL PARTNER

**Product Category: BACKSTOP UNITS**

**Name of Product/Model: Sam 325; Super Sam; Sam 10; Super Sam 325; Super Sam Multi Adjust**  
**Competition Level: 1**

**Name of Product/Model: Ceiling Suspended Backstops: S6.S0107 and S6.S0127 (glass); S6.S0109 and S6.S0129 (acrylic).**  
**Name of Product/Model: Wall Mounted Backstops: S6.S0240 and S6.S0260 (glass); S6.S0241 and S6.S0261 (acrylic)**  
**Competition Level: 2**

**Name of Product/Model: Sam 245; Super Sam 245; Clubmaster 225; Club 225**  
**Competition Level: 3**

Level 1: Main Official International Competitions of FIBA: Olympic Tournaments, World Olympic Qualifying Tournaments for Men & Women, FIBA World Championship (WC) for Men, FIBA WC for Women, FIBA U-19 WC for Men/ for Women, FIBA U-17 WC for Men/ for Women, All Zone Championships, including all Qualifying Games and Tournaments for these Championships.

Level 2: Medium Level of Competitions: All other FIBA Official Competitions as Official Cups and Tournaments of FIBA and High Level Competitions of the National Federations.

Level 3: Other Competitions: All other Competitions not included in the above.

**Contract No: P12-2011**

The Manufacturer is authorized to use the FIBA Study Centre logo in its true colours on the above products models in accordance with the artwork provided.  
Note: FIBA levels of competition describe the levels of competitions for which the product (s) may be used; there is no link with the quality of the product (s).



**Patrick Baumann**  
Secretary General

**January 2011**  
Date



# PACKAGING, WEIGHT AND SIZES

## PACKAGE 1

### Portable basketball goal

Weight:	1,261 kg	
Dimensions:	455x112x137 cm	SAM 325
	379x112x137 cm	SAM 245
	351x112x137 cm	SAM 225
	302x112x137 cm	SAM 165
	379x112x137 cm	SAM MA

## PACKAGE 2

### Tempered glass backboard

Weight:	100 kg
Dimensions:	186x106x7 cm

## PACKAGE 2A

### Backboard padding

Weight:	5 kg
Dimensions:	98x45x11 cm

## PACKAGE 3

### Dunk ring + net

Weight:	13 kg
Dimensions:	65x50x20 cm



#### PACKAGE 4

##### Set of side paddings left/right

Weight: 34.6 kg

Dimensions: 196x95x20 cm



#### PACKAGE 5A

##### Neck padding

Weight: 15.6 kg

Dimensions: 130x130x30 cm

or

#### PACKAGE 5B

##### Base padding

Weight: 35.6 kg

Dimensions: 130x95x28 cm



#### PACKAGE 6

Braces + tongues, hinges and fasteners for padding + chain for connecting the unit to the floor with safety hooks and accessory for the assembly of the glass backboard

Weight: 15.2 kg

13.6 kg

Dimensions: 157x13x10 cm

35x25x26 cm



#### PACKAGE 7

##### Optional manual DSF feature (APF)

Weight: 5 kg

Dimensions: 150x20x15 cm



#### PACKAGE 8

##### Neck padding

Weight: 4.8 kg

Dimensions: 103x22x30 cm



# INSTALLATION

Assembly of the portable basketball backstop:

Warning.

- Backboard, ring, net and padding may only be installed by qualified technical staff
- Always comply with local building codes and safety regulations
- Always work in a team of minimum two technicians
- Always mount the backboard simultaneously with the ring
- Use the temporary support tool for mounting the backboard

Assemble the backboard / basketball ring:

## STEP 1

Mount temporary support ① onto the backboard frame

## STEP 2

Hook up the backboard to the nose of the beam (minimum 2 persons needed!!). Use the two M10x25 bolts ② with washers for bolting the backboard onto the nose of the beam.

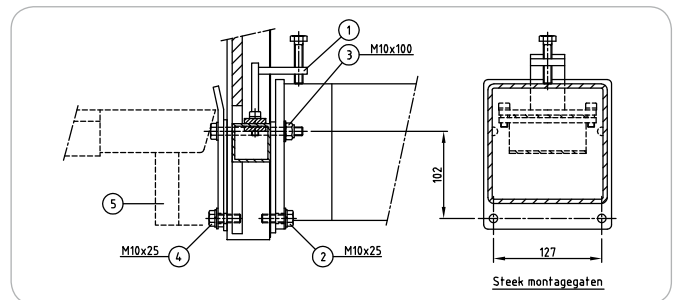
## STEP 3

Insert the two M10x100 bolts ③ through the backboard and the nose mounting plate of the beam and tighten the selflocking nuts

## STEP 4

Remove the cover ⑤ from the basketball ring; mount the ring onto the heads of the M10x100 bolts and also mount the two M10x25 bolts in the lower ring holes.

- **DO NOT EVER REMOVE THE TRANSPORT BRACE WITHOUT THE BACKBOARD BEING MOUNTED ONTO THE BEAM.** The springs are under big tension. The weight of the backboard compensates this tension. Therefore the backboard must be mounted first and only then may the transport brace be removed. **DANGER FOR SEVERE ACCIDENTS IF PROPER SEQUENCE NOT FOLLOWED !!**
- Store the transport brace and its fixings in a safe place (will be required if backboard needs replacement later on)
- Backboard is made of tempered glass : handle with care !



### STEP 5

Firmly tighten all bolts and nuts  
Remove temporary support ① and store in safe place for possible use later on

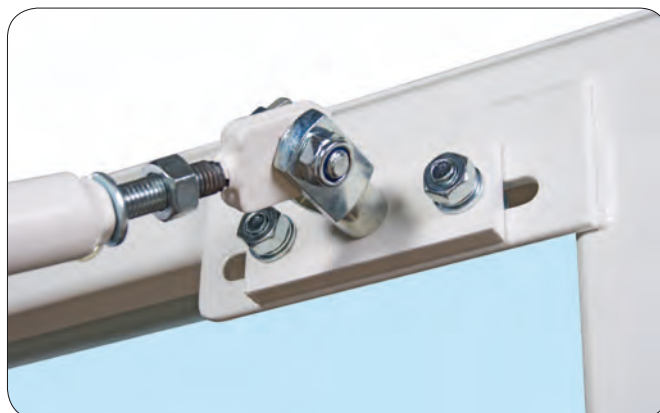


## INSTALLING BACKBOARD BRACES

### STEP 6

Mount the M12 adjustor forks and fixing plates to the top corners of the backboard using 2 carriage bolts M10x30 with lockring and spring washer. Centre the mounting plate with the slotted holes of the backboard frame and tighten the nuts.

DO NOT TIGHTEN the adjustment forks yet, as these must still be adjustable at this point



### STEP 7

Mount the backboard braces to the top of the main beam using the M10x30 bolts with washers and selflocking nuts supplied along.



## HORIZONTAL/VERTICAL ADJUSTMENT OF THE BACKBOARD

### STEP 8

Use a water level to check that the horizontal beam of the base frame as well as the framed glass backboard are perfectly horizontal. Perpendicular adjustment at a 90° angle is achieved by turning the backboard braces in or out; lock the M12 counter-nuts when the backboard is in correct position.





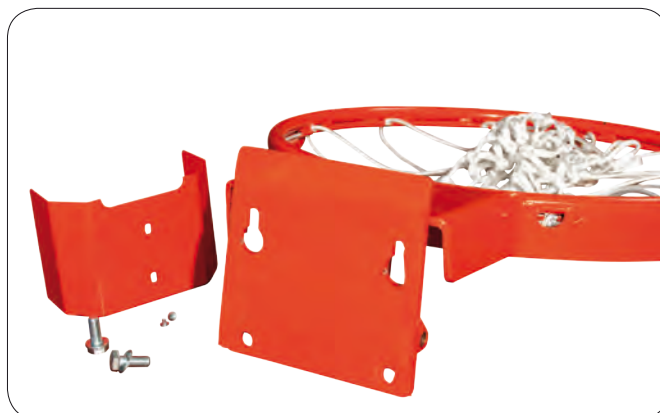
### STEP 9

**Important :** mount backboard perpendicular to the main beam. After correct horizontal adjustment, firmly tighten all bolts and nuts of ring and backboard onto the beam mounting plate.



### STEP 10

Mount cover plate back on the pressure release mechanism compartment of ring.



## INSTALLING THE BACKBOARD PADDING

### STEP 11

Install the two halves of the screw-on padding by inserting the bolts with lockrings and spring washers supplied along into the 6 holes (4 in bottom part and 1 in each side part).



## REMOVING THE TRANSPORT BRACE

### STEP 12

The transport brace can now be removed safely. Store it in a safe place, for possible future need (in case of transporting the backstop unit to a different hall, or when replacing the backboard).





## INSTALLING THE SIDE PADS TO THE BASE FRAME

### STEP 13

Install the mounting brackets (4 lugs supplied with M8x25 bolts, lock rings and spring washers) in the positions indicated at the rear of the padding panels, and then slide the side pads in the frame slots provided.



## INSTALLING THE FRONT PADS (TOP PART AND BOTTOM PART)

### STEP 14

Lower front pad : install the male hinge part (1x left and 1 x right hand side model) in the positions indicated, using the M8x25 bolts with lockrings and spring washers supplied. Then slide the lower front pad into the female hinge parts that are fixed to the front of the bottom frame.



### STEP 15

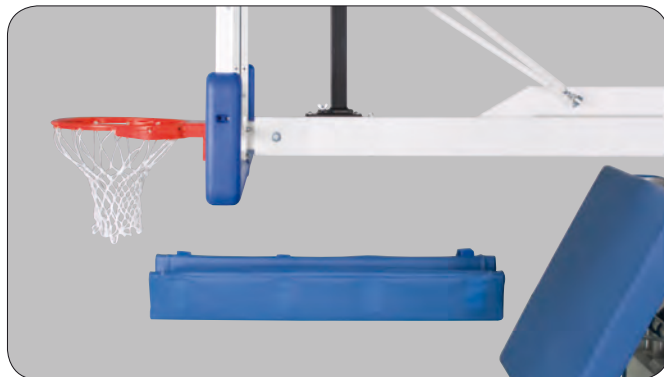
Top front pad : install the mounting brackets (2 lugs supplied with M8x25 bolts, lock rings and spring washers) in the positions indicated. Lift the panel and slide the lugs into the slots provided (lower) and fix the top portion by sliding the velcro strap through the buckle.



## INSTALLING THE NECK PAD

### STEP 16

Mount the neck pad to the front part of the beam by means of the velcro straps, in such a way that sides and bottom part are covered and velcro straps are on top.



## INSTALLING PADLOCKS

### STEP 17

Installing a padlock at the rear base frame catch locks the unit in folded position.

Installing a padlock on the locking pin of the telescopic rod locks the unit in game position.



## INSTALLING/ADJUSTING THE DYNAMIC SUB FRAME (DSF) - only on Super SAM

### STEP 18

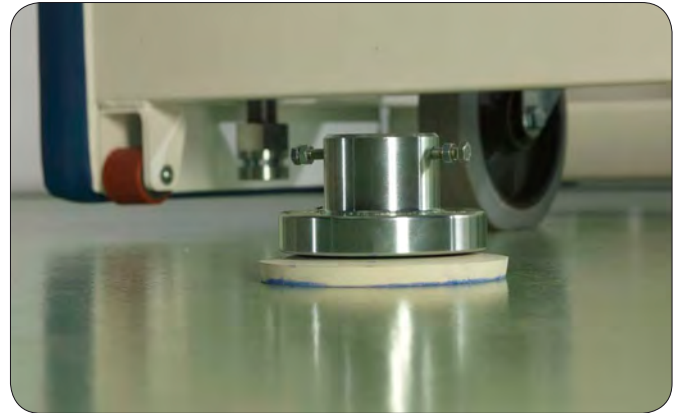
Position the DSF frame under the front of the base frame, whereby the sockets line up perfectly with the vertical rods at either side of the front. Gently lift the backstop to its game position, whereby the rods slide into the DSF sockets. Use two M6x50 bolts with washers and selflocking nuts for firmly fixing the rods into the sockets.



## INSTALLING/ADJUSTING THE AUTOMATIC PEDESTAL FEET (APF) - only on SAM Club

### STEP 18

Position the two pedestal feet straight under the two vertical rods at either side of the front. Gently lift the backstop in its game position, whereby the rods with M30 nut (+slot) and coun-ternut slide into the pedestal feet. Fix the latter to the rods using for each 2 bolts M6x25 and nut in the slot of the coun-ternut. Do not tighten the bolts, but make sure the pedestal feet can move on the vertical rods.



## INSTALLING THE FLOOR ANCHOR

### STEP 19

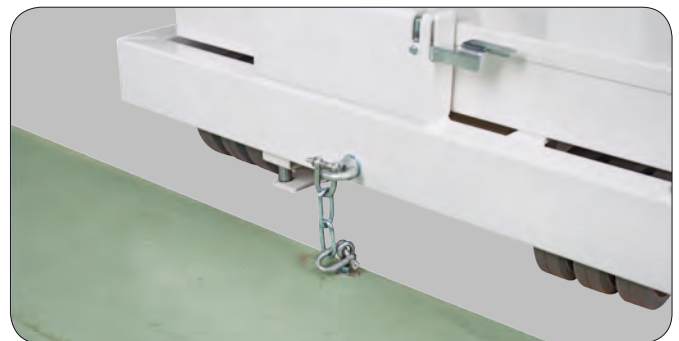
Fix the chain to the eyebolt at the rear of the backstop and fix the other end to the floor hook by means of the D-lock.

**DO NOT FULLY TIGHTEN THE CHAIN BUT LEAVE IT JUST A LITTLE BIT SLACK**

## CHECK PRIOR TO FIRST USE

### STEP 20

Check if the up/down movement is fluent and smooth; if needed, the preset springtension can be adjusted. (see further : adjusting spring tension)





# OPERATING INSTRUCTIONS

## STEP 1

Check if floor is free of debris, obstacles etc prior to moving the backstop, in order to avoid damage to the wheels

## STEP 2

Move (push from the rear or pull from the ring) the folded backstop to the position desired.

**IMPORTANT : ALWAYS MOVE THE UNIT FIRST IN THE DIRECTION (POSITION) OF THE SWIVEL WHEELS, THEN STEER THE UNIT ONCE IT IS IN MOTION**

## STEP 3

Roll the unit in its correct position and drop the front locator pins in the corresponding floor plates in the sportsfloor surface; the DSF/APF systems ensure a correct playing height when unit is raised to game position.

## STEP 4

Connect the rear end of the base frame to the floor anchor using the chain and D-lock provided. **DO NOT FULLY TIGHTEN THE CHAIN BUT LEAVE IT JUST A LITTLE BIT SLACK**, this will avoid vibrations in the unit after heavy dunks.

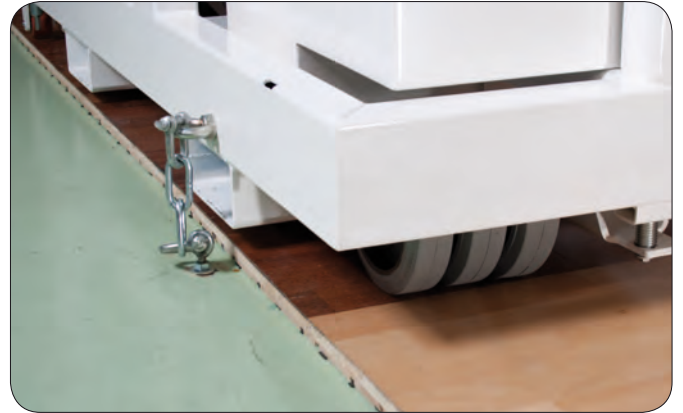




#### STEP 4 A

(if ordered)

Connect the two side eyebolts of the base frame to the floor anchors using the chains and D-locks provided. DO NOT FULLY TIGHTEN THE CHAIN BUT LEAVE IT JUST A LITTLE BIT SLACK, this will avoid vibrations in the unit after heavy dunks. (this option is available in case rear anchoring is not possible; an extra anchor chain set must then be ordered)



#### STEP 5

Remove the padlocks at the rear frame catch and at the telescopic rod locking pin.



#### STEP 6

On the telescopic rod, turn the star-knob anti-clockwise and remove the pin from the hole. Turn the automatic locking pin to its “ready” position so it will snap into place when reaching the “up” position.



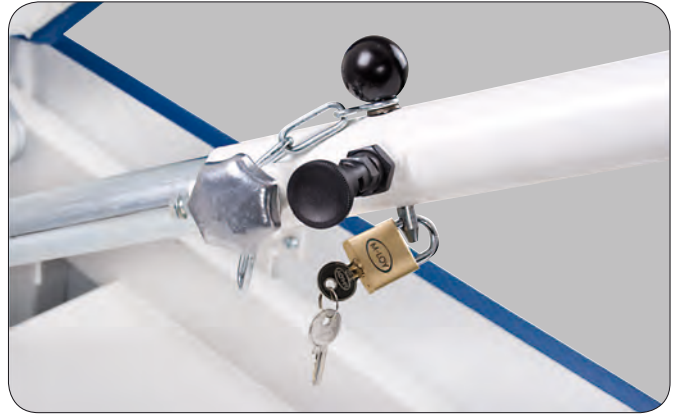
#### STEP 7

Unlock the rear frame catch (can be foot-operated) and lift the backstop to its “up” position, using the handle to the rear end of the main beam.



### STEP 8

After the automatic lock pin has snapped into place, insert the pin and install the padlock. Turn the star-knob clockwise.



### STEP 9

Lift the deadlock brace to horizontal position, hook it up to the catch at the front yoke, and tighten it in order to create a very firm connection between the two vertical columns.



### STEP 10

(only for Super SAM backstops)  
Use the instant ring height adjuster handwheel at the rear of the base frame for fine tuning of ring height, if necessary.



# ADJUSTING THE SPRING TENSION

After a certain period of use, the tension of the springs may have decreased to the point of making it difficult to smoothly lower / raise the backstop. In this case the tension of the springs must be increased, in order to avoid damage to the unit. Especially if heavy shot clocks are mounted on top of the main beam, the springs will need to be adjusted in order to absorb the increased weight of the beam with shot clocks. Proceed as per below, if required.

## STEP 1

Raise unit to game position



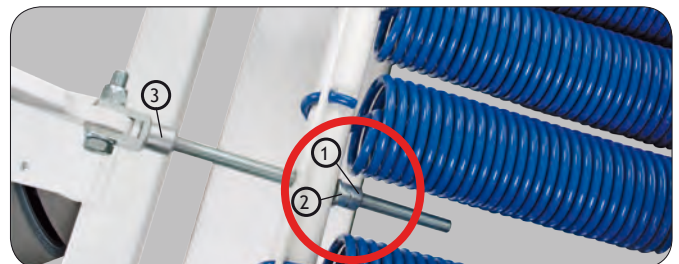
## STEP 2

Expose springs and ballast weight compartment in base frame by removing the cover plates



## STEP 3

The springs are attached to a tubular tension bar, which itself is fixed to the moving front frame via threaded rods. Loosen the lock nuts ① on these rods, turn nuts ② clockwise so that the rod moves minimum 1 cm in the direction of fixing point ③



## STEP 4

Tighten lock nuts ①, while making sure that nuts ② stay in place



## STEP 5

Raise and lower unit and repeat steps 1 through 4 until the up/down operation is a smooth process. Then install the cover plates again.



# ADJUSTING THE SPRING PACKAGE

## Adding a spring

Super SAM 245 as well as SAM Club units have a provision for inserting an extra spring (if a shot clock is mounted on the beam, this extra spring will be mandatory for a smooth folding cycle). With the extra spring comes a spring fixing plate which has a threaded rod at its rear end, plus a nut and a counternut. Slide the front hook of the spring over the tension bar, bring the spring in line with the other springs, hook up the spring fixing plate at the rear end and push the threaded rod through the frame cross member; then tighten nut 2 and secure by lock nut 1 (see picture)

# OPTIONAL FITTINGS

S6.S0890 (only for Super SAM 245) : extra spring in compensation for the weight of a shot clock

S6.S0891 : shot clock support for single-faced shot clocks

S6.S0892 : shot clock support for four-faced shot clocks

S6.S0895 : floor anchor set for side-anchoring of SAM Club and Super SAM (instead of standard rear anchoring)

S13.NG266 : LED strip for mounting on glass backboard frame

Further possibilities include special colours for the safety padding (standard is blue; also available in green, red, black, yellow and orange) as well as the option of including extra ballast bars in the base frame for non-anchored use of the backstops (for instance on top of an ice rink underneath the basketball floor).

# MAINTENANCE

Periodically lubricate the moving parts of the pressure release rings. Failure to do so will cause the ring to become stiffer, and eventually incur damage; absence of lubricating invalidates the warranty !

Check if all bolts and nuts are tightly fixed.

Check the wheels; damaged wheels can be very harmful to your sportsfloor.

Check the general condition of the backstop : correct alignment, torn or damaged welds, any squeaking noises during operation or other visible or audible anomalies should be identified.

Check the condition of the net.

Check the safety pads for damages; damaged padding should always be replaced.

Check and periodically adjust the tension of the springs (see elsewhere) if needed.

Keep unit clean, keep it free of dust and dirt.

Store backboard installation assist tool as well as transport brace in a secure place; these may be needed in future (in case of backboard replacement; and in case of moving the assembled backstop unit to a different hall, respectively).

Use touch-up paint in case of surface damage to paintwork, in order to avoid corrosion build-up.