TRAFFIC BARRIERS

# SECTOR II RECTANGULAR BOOM BREAKAWAY COUPLING INSTALLATION MANUAL

Centurion Systems (Pty) Ltd
www.centsys.com.au

CENTSYS

# Company Profile

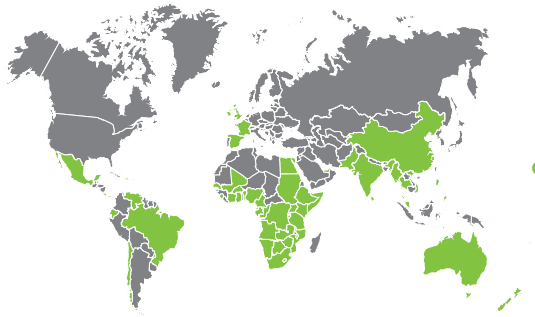
1986 1990 1995 1999 Today

**In-house R&D development team**

**Manufactures to international quality standard ISO 9001:2015**

**After-sales multi-language Technical Support**

**100% testing of products**



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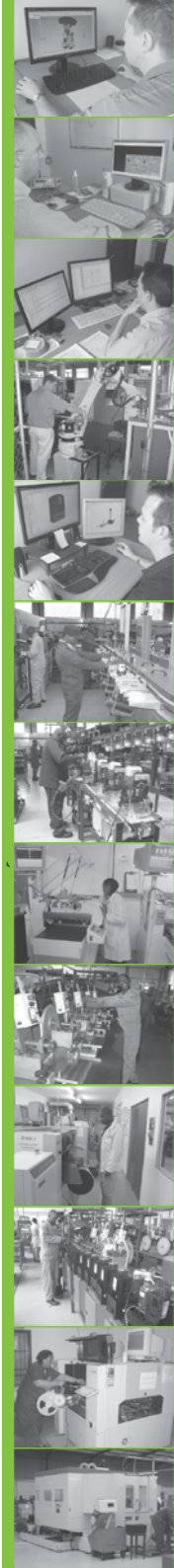

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**Icons used in this manual**

This icon indicates tips and other information that could be useful during the installation.

This icon denotes variations and other aspects that should be considered during installation.

**This icon indicates warning, caution or attention! Please take special note of critical aspects that MUST be adhered to in order to prevent injury.**

# 1. Introduction

**ATTENTION!**

**To ensure the safety of people and possessions, it is important that you read all of the following instructions.**

**Incorrect installation or incorrect use of the product could cause serious harm to people.**

**The installer, being either professional or DIY, is the last person on the site who can ensure that the operator is safely installed and that the whole system can be operated safely.**

## Warnings for the Installer

**CAREFULLY READ AND FOLLOW ALL INSTRUCTIONS before installing the product.**

- All installation, repair, and service work to this product must be carried out by a suitably qualified person
- Do not activate your barrier unless you can see it and can determine that its area of travel is clear of people, pets, or other obstructions
- **NO ONE MAY CROSS THE PATH OF A MOVING BARRIER**. Always keep people and objects away from the barrier and its area of travel
- **NEVER LET CHILDREN OPERATE OR PLAY WITH THE BARRIER CONTROLS**
- Secure all easily-accessed barrier controls in order to prevent unauthorised use of the barrier
- Do not in any way modify the components of the automated system
- Do not install the equipment in an explosive atmosphere: the presence of flammable gasses or fumes is a serious danger to safety
- Before attempting any work on the system, cut electrical power to the operator and disconnect the batteries
- The mains power supply of the automated system must be fitted with an all-pole switch with contact opening distance of 3mm or greater. Use of a 5A thermal breaker with all-pole circuit break is recommended
- Make sure that an earth leakage circuit breaker with a threshold of 30mA is fitted upstream of the system
- Never short-circuit the battery and do not try to recharge the batteries with power supply units other than that supplied with the product, or manufactured by Centurion Systems (Pty) Ltd
- Make sure that the earthing system is correctly constructed, and that all metal parts of the system are suitably earthed

- Safety devices must be fitted to the installation to guard against mechanical movement risks, such as crushing, dragging and shearing
- It is recommended that at least one warning indicator light be fitted to every system
- Always fit the warning signs visibly to the inside and outside of the barrier
- The installer must explain and demonstrate the manual operation of the barrier in case of an emergency, and must hand over the user guide to the user
- Explain these safety instructions to all persons authorised to use this barrier, and be sure that they understand the hazards associated with traffic barriers
- Do not leave packing materials (plastic, polystyrene, etc.) within reach of children as such materials are potential sources of danger
- Dispose of all waste products like packing materials, worn-out batteries, etc. according to local regulations
- Always check the obstruction detection system and safety devices for correct operation
- Neither Centurion Systems (Pty) Ltd, nor its subsidiaries, accepts any liability caused by improper use of the product, or for use other than that for which the automated system was intended
- This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the service life/operation of the product and/or be a source of danger
- Anything that has not been specified in these instructions may be considered a risk to your safety, and the safety of others. If you are unsure of an installation matter, please contact your nearest distributor

# 2. Product Identification

## 2.1. External components

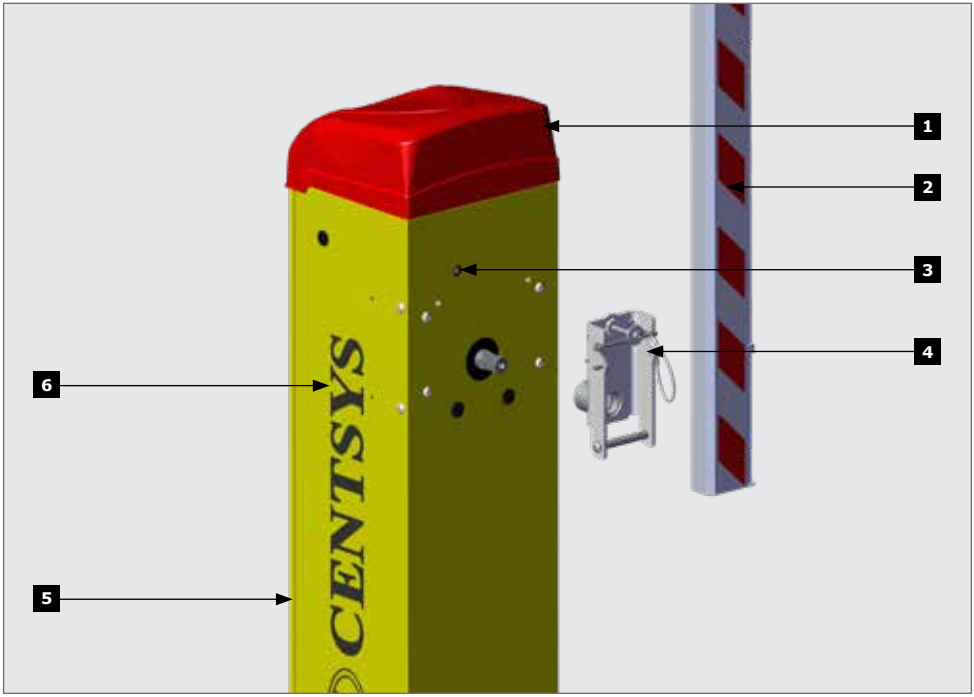


**FIGURE 1. PRODUCT IDENTIFICATION - EXTERNAL COMPONENTS**

1. Barrier lid
2. Rectangular Boom pole (3m, 4.5m and 6m) (not supplied)
3. Manual override (6mm Allen key)
4. Rectangular Breakaway Coupler
5. Door
6. Barrier enclosure

## 2.2. Hardware unpacking

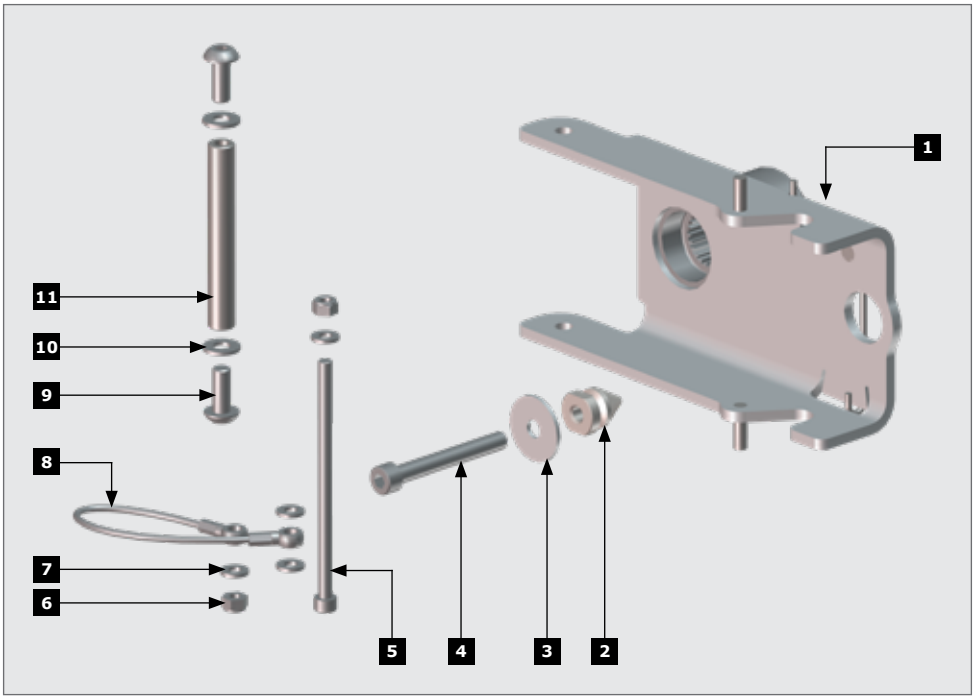


**FIGURE 2. PRODUCT IDENTIFICATION - RECTANGULAR BREAKAWAY COUPLER**

1. Rectangular Breakaway Coupler
2. Breakaway profiled Nut
3. M8 x 30 Washer
4. M8 x 65 Hex cap screw
5. M6 x 110 Hex cap screw
6. M6 Nyloc nut
7. M6 x 12,5 Washer
8. Breakaway cable
9. M8 x 20 Hex socket button head screw
10. M8 x 16,8 Washer
11. Breakaway Hinge

# 3. Physical Installation

## 3.1. Fitting the pole

**The SECTOR II can be installed in different configurations. It is important to fully understand the site requirements before purchasing the unit.**

Look at the site and decide where the unit will be positioned, then determine which direction the pole will face. This will enable you to ascertain whether a right-hand or left-hand barrier is needed for the installation.

1. Carefully remove the end cap from one end of the boom pole.
2. From the edge of the pole, mark and centre punch hole positions at 17mm and 165mm.
3. Repeat step 2 on the bottom of the pole.

Keep note of orientation. Plastic bumper must be facing downwards.

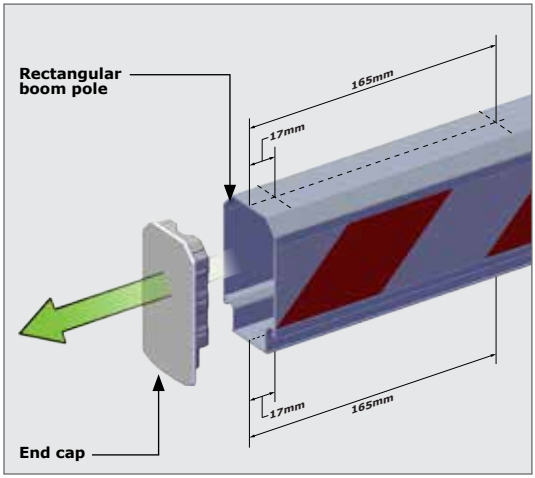


FIGURE 3

4. Starting from the top side of the pole, drill one 12mm hole at the mark closest to the edge.
5. Then drill one 6mm hole at the mark furthest from the edge.

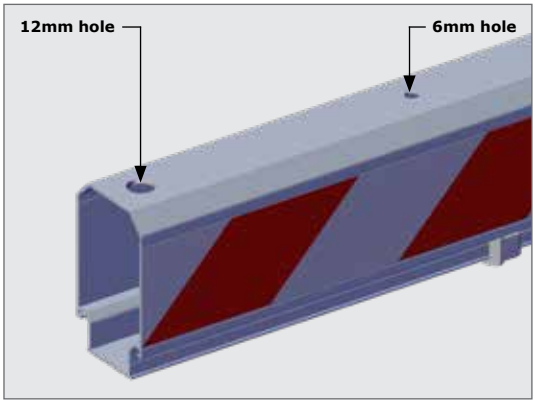


FIGURE 4 - TOP OF THE BOOM

6. Rotate the boom to the bottom side and drill one 12mm hole at the mark closest to the edge.
7. Then drill one 6mm hole at the mark furthest from the edge.

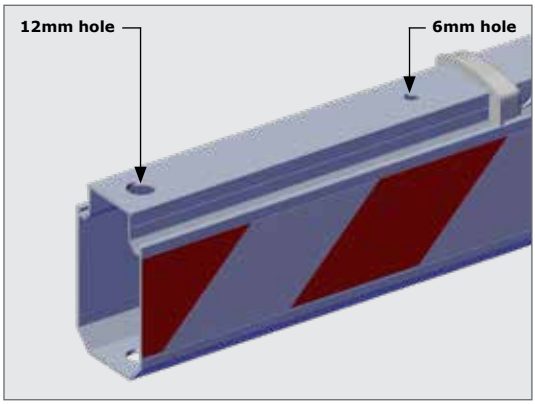


FIGURE 5 - BOTTOM OF THE BOOM

8. Rotate the boom to the side and from the edge of the pole, mark and centre punch a hole position 180mm away from the edge.
9. Repeat step 8 on the opposite side of the pole.

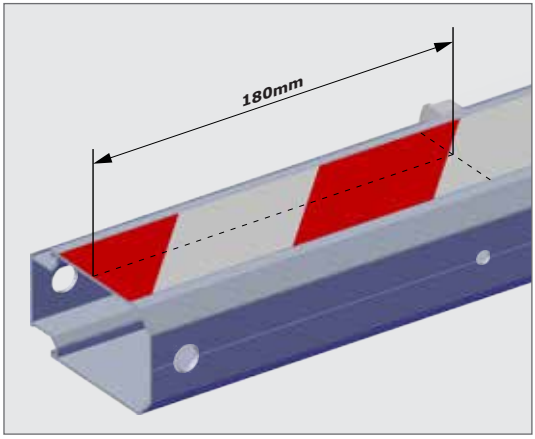


FIGURE 6 - SIDE OF THE BOOM

10. Drill one 8mm hole.
11. Repeat step 10 on the opposite side of the pole.

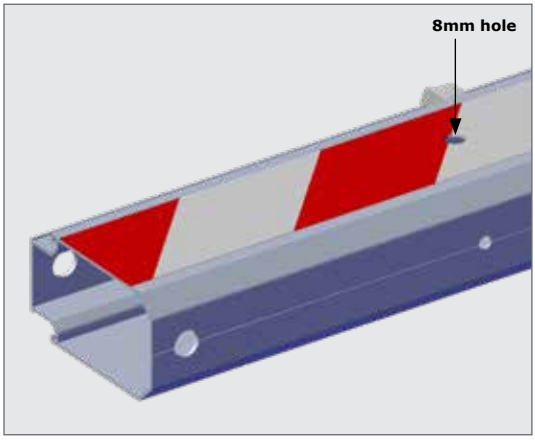


FIGURE 7

12. Slide the breakaway hinge into the rectangular boom pole and fasten it in place with the button head screws.

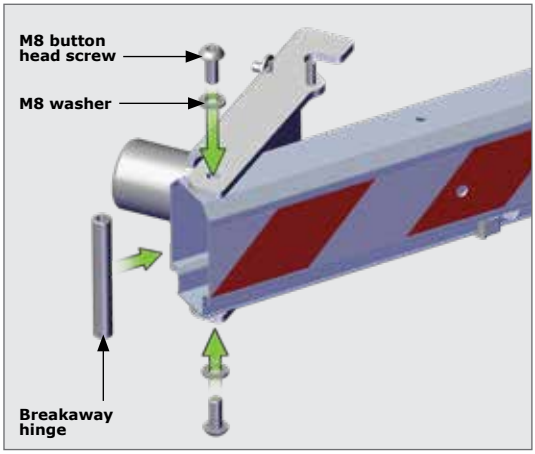


FIGURE 8

13. Assemble the breakaway profiled nut to the boom pole using the M8 bolt and heavy-duty washer.

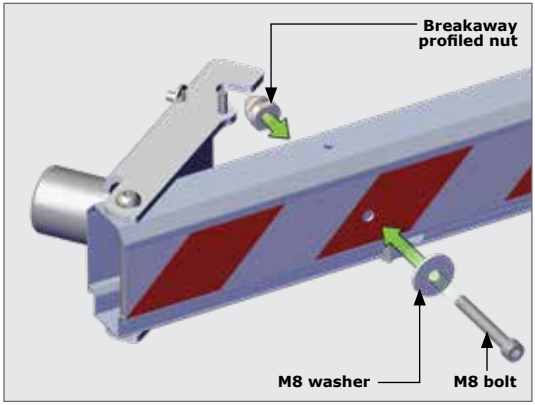


FIGURE 9

14. Attach the Breakaway cable to the boom pole using the 110mm M6 bolt and supplied fasteners.

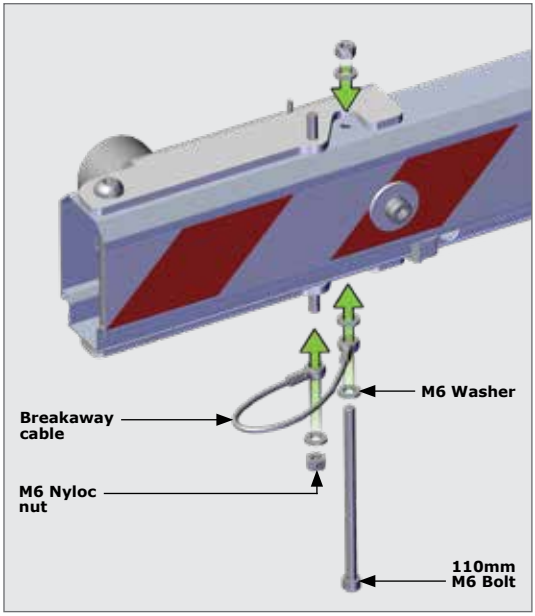


FIGURE 10

15. Vertically align the Coupler to the spline, slide it onto the spline and fasten it in place.

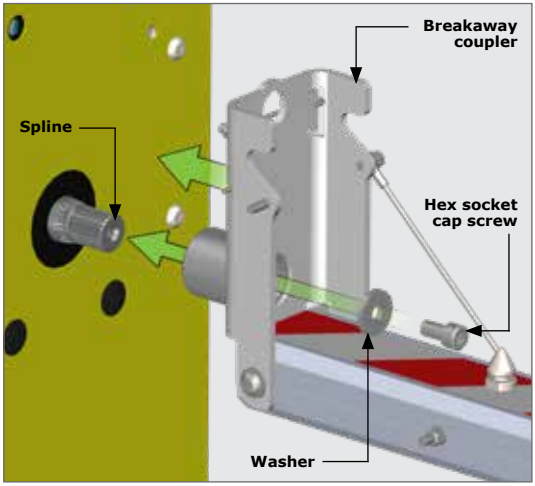


FIGURE 11

16. Engage the breakaway profiled nut to the breakaway coupler.

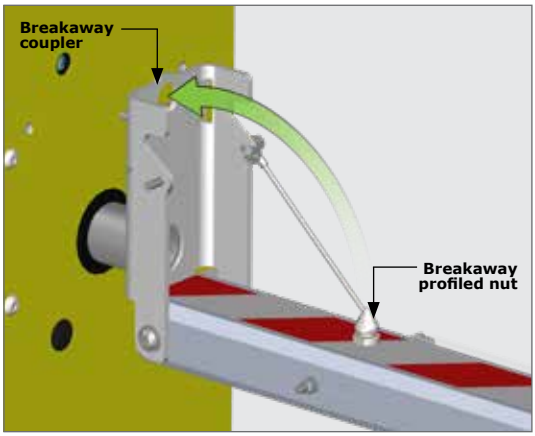


**FIGURE 12**

17. Rotate the boom pole horizontally and replace the end cap.

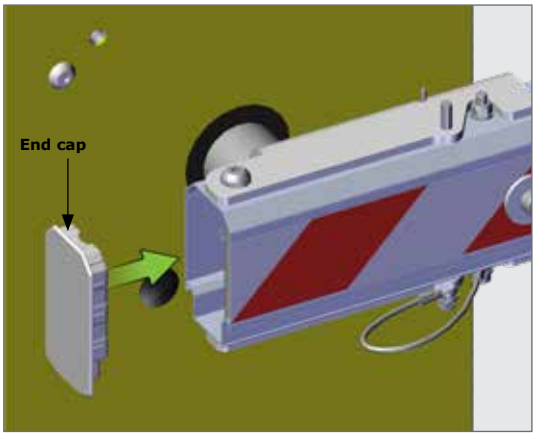


**FIGURE 13**

Refer to the **SECTOR II** installation manual for instructions on how to level the boom pole and adjust the spring tension.

# 4. Installation Handover

Once the **SECTOR II rectangular boom pole** has been successfully installed and its operation tested, it is important for the operation and safety considerations to be explained to the end-user of the system.

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