

Cassette with folding arms



Important information



Make sure you read carefully and understand the instructions given before using the product!

Safety precautions and warnings are contained in this manual and in some cases on the product. Improper use, service or repair of this product may result in personal injury or death!

This instruction manual must be kept easily accessible to the user of the product. A new instruction manual can be ordered from ATA Hill & Smith AB. Most accidents associated with the use, maintenance and repair of the product are caused by failure to comply with basic regulations and precautions. Accidents can often be avoided by anticipating possible risk situations. The user must be aware of the present risks. The user must also have adequate training, necessary knowledge and equipment to be able to pay attention to such situations.

ATA can not anticipate any conceivable risk situation. The warnings in this manual and on the product are therefore not comprehensive. If tools, work methods or operating techniques not specifically recommended by ATA are used, make sure that they do not represent an unacceptable security risk to yourself or others. Also, make sure that the product will not harm or endanger the usage, lubrication, service, or repair practices you apply.

All information, specifications and illustrations contained in this manual are based on available information at the time of publication. Specifications and other information may be subject to change at any time. Such changes may affect the maintenance of the product. Make sure you have full and up-to-date information before starting work.

Your nearest ATA office always has access to current information.

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Safety

Folding arms

The cassette arms and their fasteners may only be adjusted / unloaded by a person skilled in the art. Inside the arms are heavily tensioned springs. If for any reason the arms need to be loosened, they must be secured with heavy stripes, straps or ropes before any attachment is released. In cases where gas springs are mounted and for some reason they must be unloaded, this should be done with the arms fully unfolded. Under no circumstances shall the arm structure be opened.

Pinch hazard

Risk of being pinched when the cassette is folded. The cassette is remote controlled and can start without warning.

Installation

The cassette should be mounted and connected by a professional. Mount the brackets horizontally and as close to the arms as possible. When installation is complete, check / tighten all the screws on the cartridge.

Motor

If the electric motor is not working, a common cause is poor connection in the connections or fuse. In case of suspicion that the engine is broken, first contact ATA. The engine has a thermal protection that shuts off after about 5 minutes of use. When the thermostat has switched off the engine, it takes about 10 minutes before it can be driven again.

The limit positions on the engine are aligned and usually do not require any adjustment.

Readjusting the end positions on the Becker Engine:

1. Run the cassette until it stops itself.
2. Back some.
3. Screw plus (+) to increase the running time, the minus (-) to decrease. 1 turn on the screw = about 20 mm movement.
4. Run the cassette inward a little and then out again, if it needs more adjustment, repeat step 2 & 3. Do not drive the cassette completely inward, leave 15-20 mm between the front rail and the canvas / duct, so that the engine stops from the limit, not by mechanical stop.

Cleaning / Maintenance

The cassette can be washed in the same way as a passenger car.

NOTE! High pressure wash or degreasing must not be used against the engine or directly against cloth / message.

Low pressure or distance from the nozzle applies.

The arms should be lubricated after washing or 4-5 times / year.

Make sure the cloth / roll is free from dirt and debris before rolling. It is especially important during wintertime to prevent that snow and ice is rolled onto the roller.

Warranty

ATA is committed to the customer / dealer, in accordance with paragraphs below to remedy any defect arising on the cassette that can be attributed to faulty design, materials or workmanship.

- ATA's responsibility relates only to errors that occur within one (1) year from the date of delivery.
- Provided that the cassette is installed and connected by a professional and that it has our machine plate (CE label) clearly visible.

Remedial

- When ATA receives a malfunction report, ATA shall rectify reported errors without delay. After ATA has returned repaired or exchanged a product to the customer, ATA shall be deemed to have fulfilled its obligations regarding the defective item. If ATA approves the claim, ATA will pay for transport to ATA and return to customer.
- Incorrect parts replaced by customer or representative in accordance with the above must be returned without delay to ATA marked with order / Claim number.

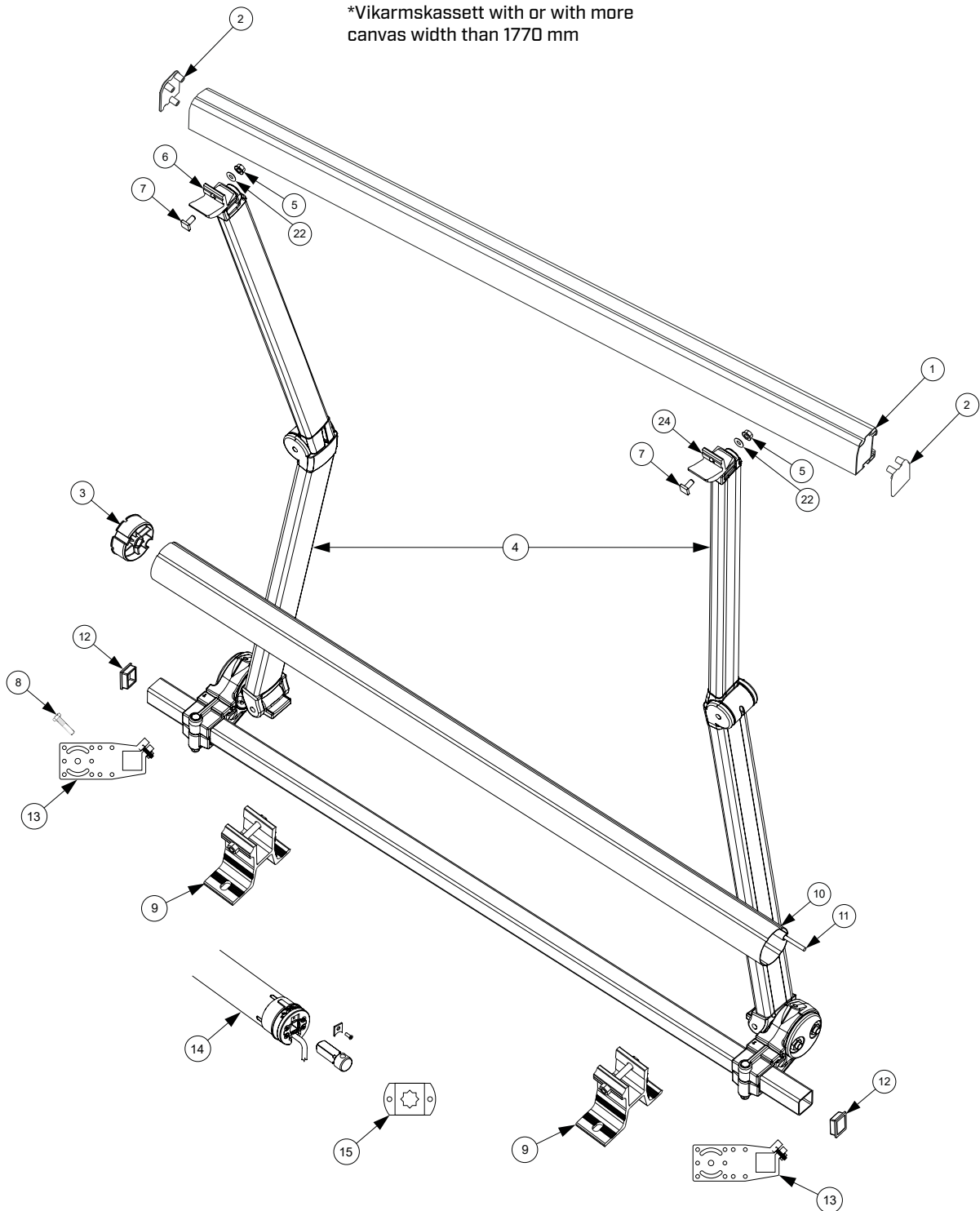
Limitation of Liability

- ATA only responds to the errors that occur during normal and proper use. The warranty does not cover errors caused by accident, improper assembly or improper installation. The warranty also does not apply to deterioration due to normal wear, dirt or other air pollution. ATA is not responsible for damage that occurs with the sign in the unfolded position if the vehicle is operated at a higher speed than 30 km / h.
- In addition to the above, ATA has no responsibility for errors. ATA is not obliged to pay to any customer or anyone any compensation, whether for personal injury or damage to property not covered by the agreement, or no profits or other indirect damage.

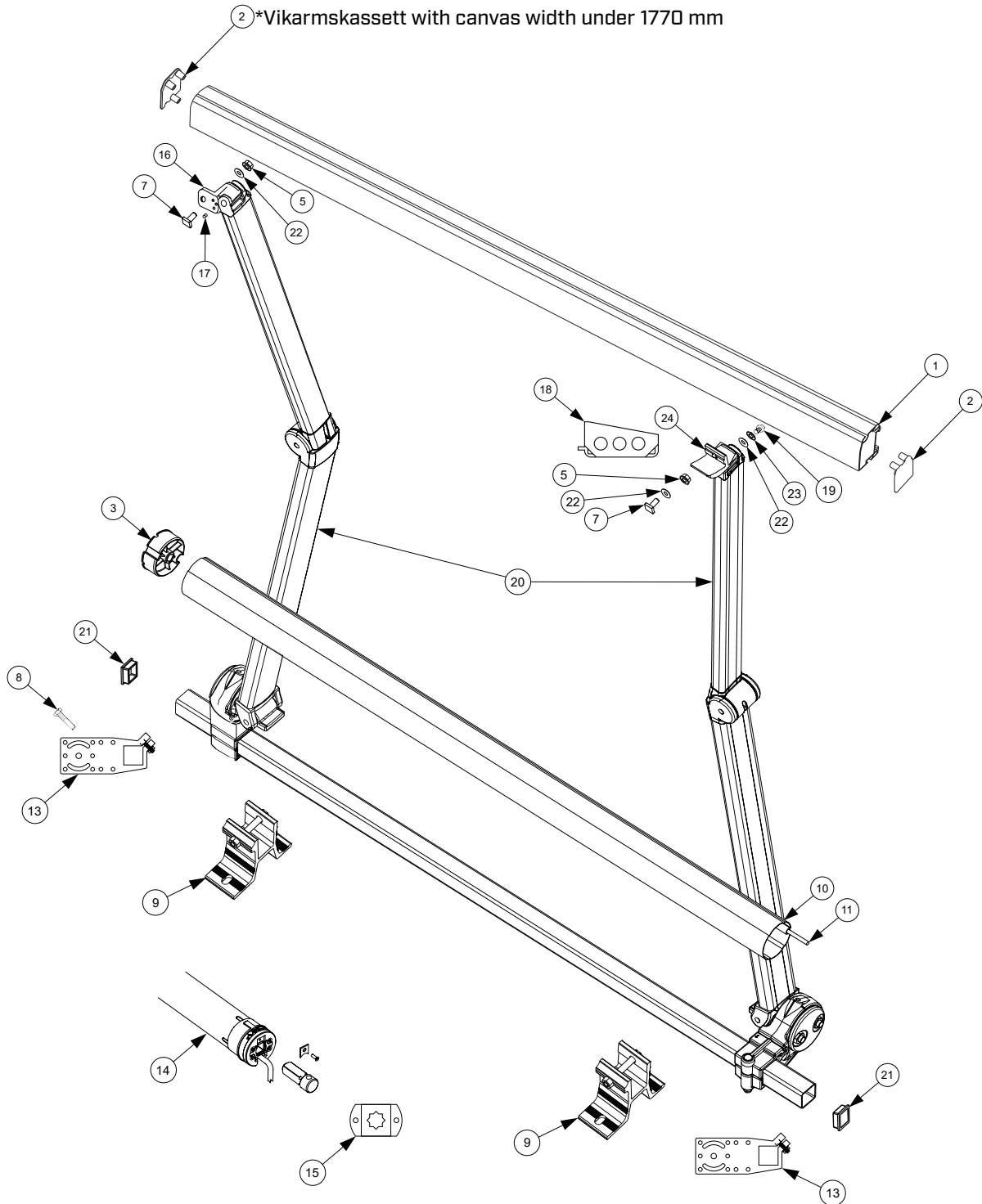
Spare parts

Vikarmskassett [Modell 4020*]


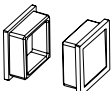
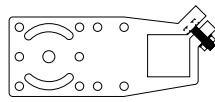
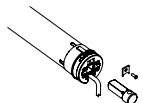
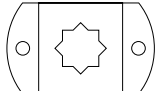
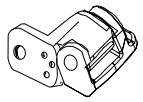

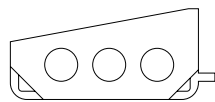

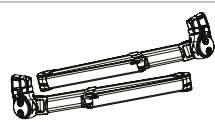
*Vikarmskassett with or with more
canvas width than 1770 mm



Vikarmskassett [Modell 3014/3018*]



Spare parts			
Pos	Picture	PartNo	Description
1		310 8012 00177	Frontskena vit 1280 mm (modell 3014) Frontskena, vit 1580 mm (modell 3018) Frontskena vit 1970 mm (modell 4020) Kapas till önskat mått
2		310 8012 0076	Ändskydd frontskena vit
3		310 8012 0014	Rörbussning 78 mm, med plastlager för Ø78-rör
4		310 8012 0190A	Arm modell 190 A 1 st högerarm och 1 st vänsterarm inkl. pos [6] [24] Används till vikarmkassetter med dukbredd över 1770 mm
5		310 8012 0171	Mutter M10 A2 fzb för vikarmar
6		311 8012 05563	Frontfäste standard höger (märkt "R") För att bestämma vänster/höger sida, ställ dig med vikarmarna synliga framför dig. Vikarmen du ser till vänster = vänster arm; höger = höger arm.
7		310 8012 0170	T-spårskruv M10x23 för kassettdarmar
8		310 8012 0006	Lagertapp för gavelbeslag [13]
9		311 8012 0018	U-fäste rak modell alu inkl. bult M10x60 A2 + låsbricka M10
10		310 8012 31288 310 8012 31588 310 8012 31868	Dukrör stål Ø78 mm, 1280 mm (modell 3014) Dukrör stål Ø78 mm, 1580 mm (modell 3018) Dukrör stål Ø78 mm, 1860 mm (modell 4020) Färdigkapat och lackerat

Spare parts			
Pos	Picture	PartNo	Description
11		310 8012 0009	Abs-rör 5,7 mm Används för att fästa duk i dukrör (10) och frontprofil (1)
12		310 8012 0059	Ändskydd till fyrkantströr i stål 35x35 mm, grå plast
13		310 8012 0001	Gavelbeslag Turnils för kassett inkl. bult M8x30 och flänsmutter M8
14		310 8015 1201 310 8015 2401	Motor T-12V Becker inkl. drivhjul & medbringare Motor T-24V Becker inkl. drivhjul & medbringare
15		310 8015 1010	Monteringsbleck Becker
16		311 8012 05564	Frontfäste special höger (märkt "R") För att bestämma vänster/höger sida, ställ dig med vikarmarna synliga framför dig. Vikarmen du ser till vänster = vänster arm; höger = höger arm.
17		310 8012 1556	Insexskruv M6x8 A2
18		310 8012 0250	Armfäste SP stål för omlottvikarm för vikarmkassett
19		310 8012 51620	Sexkantsskruv M10x20 A2
20		310 8012 0190B	Arm modell 190 B (för omlott) 1 st högerarm och 1 st vänsterarm inkl. pos (24) (16) Används till vikarmkassetter med dukbredd under 1770 mm

Spare parts			
Pos	Picture	PartNo	Description
21		310 8012 0058	Ändskydd till fyrkantströr i vitlackad alu 35x35 mm, vit plast
22		310 8012 53425	Bricka BRB M10 10,5x20x2 A2
23		310 8012 0095	Låsbricka LB AZ M10 A4
24		311 8012 05562	Frontfäste standard vänster (märkt "L") För att bestämma vänster/höger sida, ställ dig med vikarmarna synliga framför dig. Vikarmen du ser till vänster = vänster arm; höger = höger arm.

Replacing motor



CAUTION!

Very strong spring tension inside the arms. Motor replacement must be performed by knowledgeable person, if any doubt, contact ATA. Take great care when removing engine and handling the cassette. Always secure the arms, before starting work, with strap or cable ties around both arm profiles so that they cannot strike out.

Replacing the motor (motor including driving wheels, carriers, motor mount)

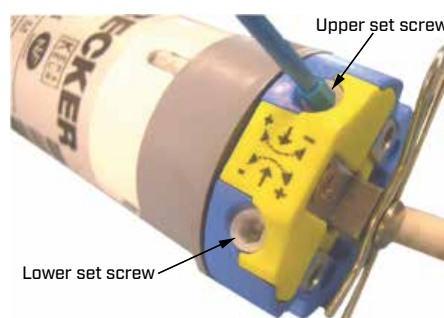
- Disconnect the motor cable, the cables on the motor are numbered, note which number goes to each terminal.
- When the arms are secured, loosen the end bracket on the motor side, pulling it off the support beam (square tube), pull the motor out of the fabric tube.
- Slide the new motor in the fabric tube, it should be easy to push in. If it does not fit easy, check that the tube is not damaged, to "knock in" the motor with ex. a hammer is not allowed.
- If the motor mount is damaged or corroded, replace it.
- Slide the end bracket back, fit the motor to the motor mount so the two grub screws have direction straight back, so they can be easily reached.
- Connect the motor cable.

Adjustment of limit positions

[1 turn of the screw \approx 20 mm move distance]

Do not screw when engine is stopped, the limit switch could be damaged. Use a 4 mm Allen key or flat screwdriver for adjustment.

- Set the switch to the output mode, run out the cassette until it stops itself. Adjusting the outer stop position by screwing the lower set screw clockwise (+) until the entire lower red-yellow screen is visible. Factory-set limit positions have short moving distance, you have to turn quite a few laps at the set screws. If the cassette run out too much, set the switch to input mode a short while, then stop, tighten the set screw a bit counterclockwise (-) and try again. Repeat until the correct position is reached.
- Screw the upper set screw about 15 turns counterclockwise (-). Set the switch in the input mode, run in the cassette until it stops itself. Adjust the inner stop by turning the set screw clockwise (+). Do not run in the cassette completely, leave 15-20 mm between front tub and fabric, the engine must stop by the limit switch, not by a mechanical stop. If it run in too much, set the switch to output mode a short while, then stop, turn the set screw a bit clockwise (-) and try again. Repeat until the correct position is reached.
- Run the cassette completely out and then completely in a couple of times to make sure it stops correctly.



Replacing arm



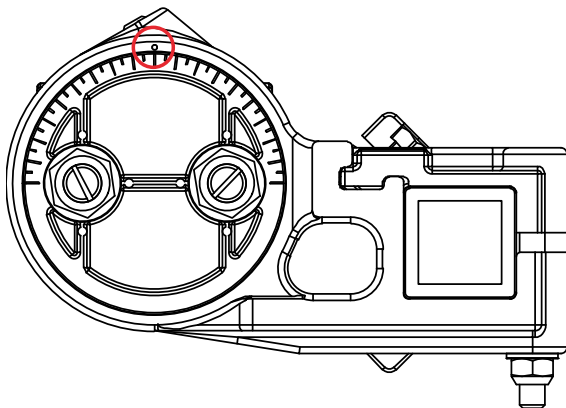
CAUTION!

Very strong spring tension inside the arms. Arm replacement must be performed by knowledgeable person, if any doubt, contact ATA. Exercise great caution when opening the package and the handling the folding arm. Do not remove the plastic banners (red / green), until the arms are securely bolted.

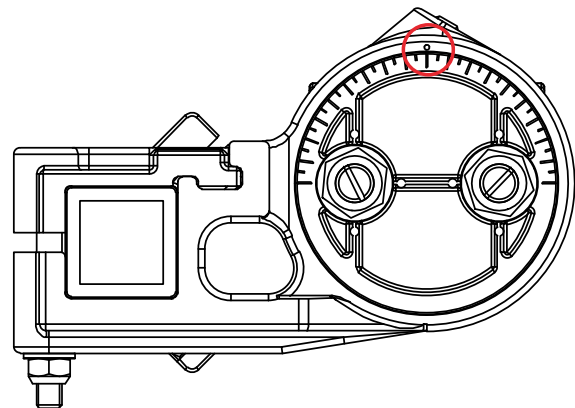
Replacement of arms

- Mark where the old arms are fixed on the square tube and secure the arms before work begins, with strap or cable ties around both arm profiles so that they can not strike out.
- Loosen both endbrackets from square tube and let the fabric tube with motor rest on something during arm replacement. Release both arms from the square tube and the front tube (the white profile in which the upper part of the fabrics is fixed) and take them away.
- Assemble the new arms of the square tube at the same place where the old set. Tighten all bolts.

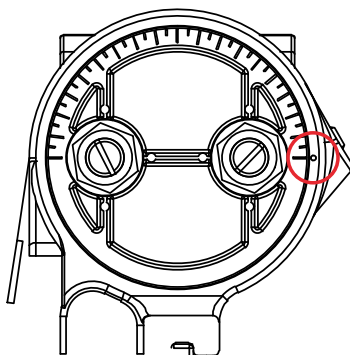
190A Left



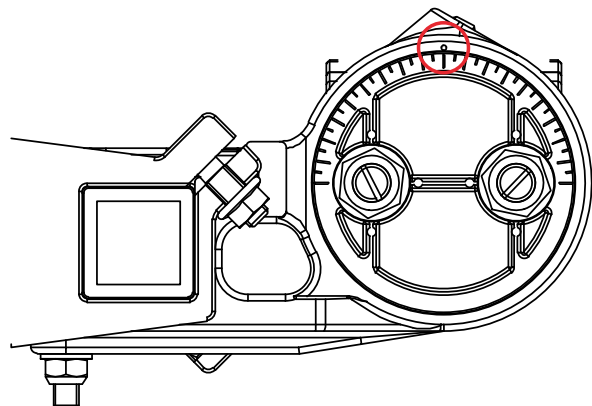
190A Right



190B Left



190B Right



Adjusting arm angle and align the arm

- **Cassette with folding arm(190 A):** Set the mark on arm holders at the 90o-line (coarse) in the middle of the scale. You may need to loosen the Allen screw with wrench 4 mm to reach the mark.
- **Cassette with crossover arm(190 B):** Left arm (green banner), remove the Allen screw, set the mark on the arm holder on the 00-line at the scale. Right Arm (red banner), set the mark on arm holder at the 90o-line (coarse) in the middle of the scale.
- Tighten the M12 nuts with a 19 mm spanner alternately without overlay, about 50 Nm.
- Reassemble the end bracket with engine mount. Lift the fabric tubes with fabric and reassemble the second end bracket, not tight, it should be a few mm in glitches. Reassemble the front tube, center against the fabric tubes and fabric.
- Hold down the front tube and remove the plastic banners from the new arms. Let go slowly. The arms will now stretch the fabrics so that it is tightened up.
- Check and tighten all the screws on the cassette.
- Make sure that the arms end up in parallel with the square tubing and not hitting each other or the front rail. Adjust if necessary by loosening one and tightening the other M12 nuts.

Adjustment of limit positions

see section Replacing motor

Gas Springs

If gas springs should be mounted on the new arms, see special instructions for this. Measure not on the old arms, use the instruction measurement for the brackets. Gas Springs must be fitted with arms fully extended.

Installation gas spring

Gas spring kit, contents:

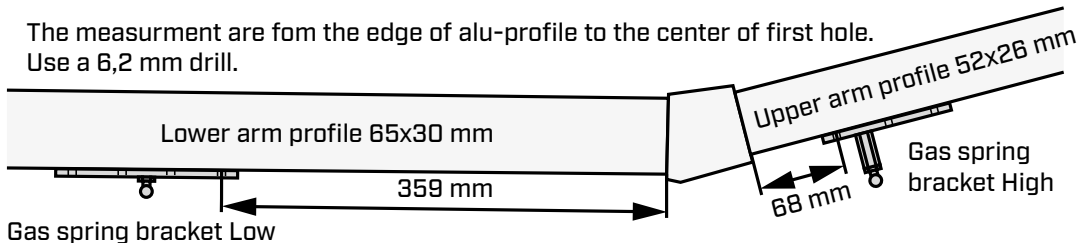
- 2 pcs Gas spring bracket High with ball studs 39
- 2 pcs Gas spring barcket Low with a grinded ball stud 39
- 14 pcs blind rivet 6x12
- 2 pcs Gas spring 400 N
- 4 pcs Bracket 3 (ball cup)

Option:

- Gas spring 300 N
- Gas spring 600 N

Drill template

The measurement are fom the edge of alu-profile to the center of first hole.
Use a 6,2 mm drill.



Mounting Instructions:

Drill carefully, just through the profiles thickness, in order not to damage the wire and spring inside the lower arm profile.

1. Drill first holes centered on the arm profiles narrow side according to the dimen- sions above.
2. Rivet the bracket with rivets 6x12.
3. Drill remaining holes and rivet the remaining rivets.
4. Gas Springs must be fitted with arms fully extended, the thicker part of the spring is mounted on the upper arm profile.

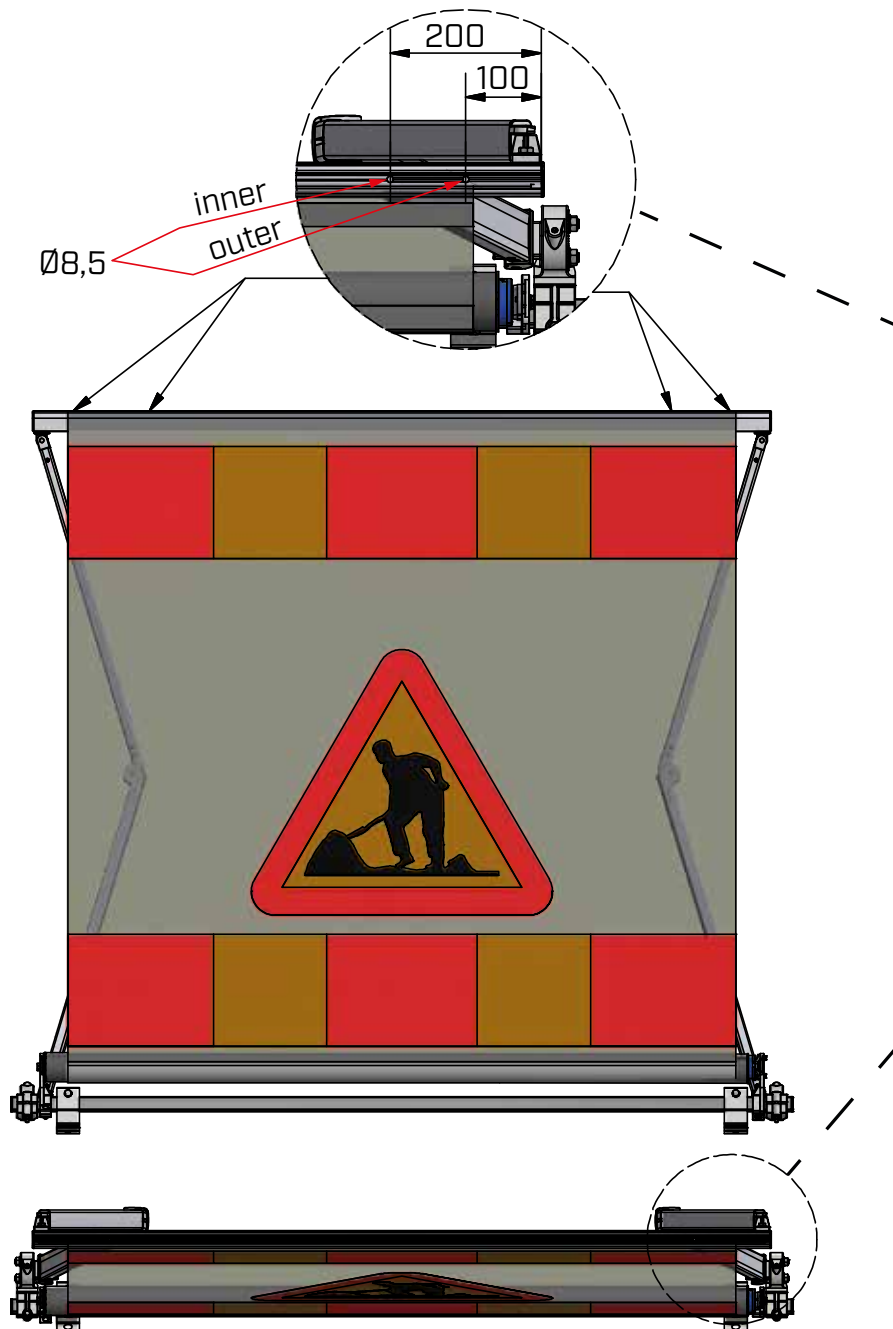
Hole pattern warning lights

Holes for warning light brackets are drilled from the top of the front rail.

M8 bolt and nut-piece are used as a screw joint.

For 1 pair of warning lights, these two outer holes are used, and for two pairs the two inner holes are also used.

For double-sided folding cassette the same attachment holes are used.



Technical specifications

Power supply: 12 V or 24 V

Lifting power, overcapacity for eg warning light

Lifting power without gas spring: 5.2 kg Lifting power with gas spring 400 N: 10.0 kg

Warning lights

Ø200 mm L8H LED

Power Consumption Daytime: 1.8A (12V) Power Consumption Night Time: 0.2A (12V)

Tested according to EN12352, Class L8H

Weight: 2.7kg / pair inc. brackets

Models listed are standard range. The cassette can be built in other widths.

Modell 4020

Dimensions (width x height x depth):

2080 mm x 250 mm / 1810 mm x 200 mm

Thickness (width x height):

1770x1800 mm

Weight:

30kg (excl. Warning light)

Modell 3018

Dimensions (width x height x depth):

1655 mm x 250 mm / 1900 mm x 300 mm

Dimensions (width x height):

1550x1900 mm

Weight:

28kg (excl. Warning light)

Modell 3014

Dimensions (width x height x depth):

1350 mm x 250 mm / 1900 mm x 300 mm

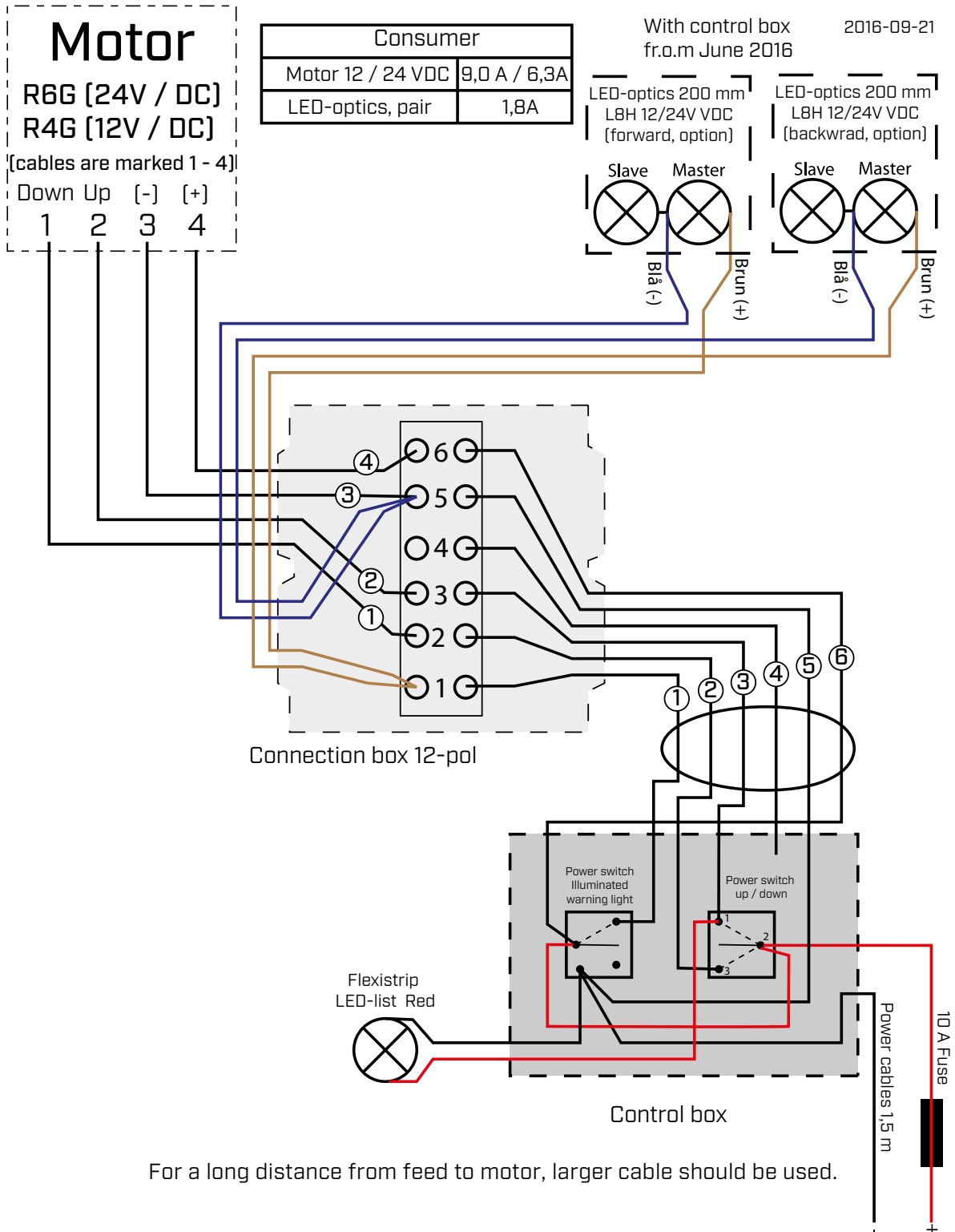
Dimensions (width x height):

1250x1900 mm

Weight:

25kg (excl. Warning light)

Wiring diagram



EC Declaration of Conformity

ATA Bygg- och Markprodukter AB

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försäkrar härmed att:

Produkt

Vikarmskassett modell A

Vikarmskassett modell B

Serienummer

enligt CE-etikett enligt

enligt CE-etikett enligt

Tillverkningsår

CE-etikett

CE-etikett

är tillverkad i överensstämmelse med RÅDETS DIREKTIV.

Rådets direktiv 2006/42/EG angående inbördes närmande av medlemsstaternas lagstiftning rörande maskiner, med särskilda hänvisningar till direktivets Bilaga 1 om väsentliga hälso- och säkerhetskrav i samband med konstruktion och tillverkning av maskiner.

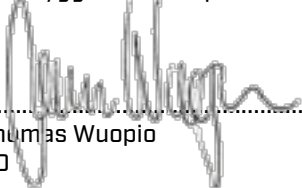
Rådets direktiv (EMC) 89/336/EEC, av den 1 januari 1992 och 92/31/EEC av den 1 januari 1996.

Rådets direktiv (LVD) 73/23/ECC av den 19 augusti 1974 med ändring 93/68/ECC av den 1 januari 1995.

Förbehåll: Försäkran är giltig endast under förutsättning att medföljande drift och underhållsinstruktion följs.

Sollentuna datum enligt CE-etikett och leveranssedel

ATA Bygg- och Markprodukter AB


.....
Thomas Wuopio
VD

FOR THE LOVE OF LIVES™

I Sverige finns det över 140 000 km väg som ständigt utvecklas och moderniseras. ATA är experter på trafiksäkerhet och levererar helhetslösningar med ett mål – att värna om liv.

Vare sig det handlar om ett vägmärke, trafikanordningsplaner, fordonsutrustning eller vägräcken så har vi lösningarna. Tillsammans jobbar vi för att utveckla säkerheten och skapa tryggare miljöer.

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