

TURNSTAR

RELIABLE ★ DURABLE ★ GUARANTEED



USER MANUAL



DROP ARM BARRIER

CONTENTS

1. LAYOUT 3
 Figure 1: Typical layout of Drop Arm Barrier 3

2. PREPARATION FOR INSTALLATION 5
 Figure 2: Installation clearance for the Drop Arm Barrier 5
 Figure 3: Base positioning & bolting holes 6

3. PARTS 7
 Figure 4: Drop Arm Barrier assembly..... 7

4. OPENING & INSTALLATION 8

5. CONNECTIONS AND SETUP 9
 Figure 5: Locations of components & over-ride screw..... 9
 Figure 6: DAB700TUR Controller & Connections..... 10
 Figure 7: Client trigger connections..... 11

6. POWER SUPPLY AND VOLTAGE SELECTION..... 12
 Figure 8: Power supply mains change 220v - 110v..... 12

7. MECHANICAL OVERRIDE ON POWER FAILURE 13
 Figure 9: Mechanical Over-ride 13
 Figure 10: Mechanical Over-ride Rotation of screw..... 14

8. CONTROLLER SWITCH SETTINGS..... 15

9. DRAWINGS..... 17

1. LAYOUT

1.1. Below is a typical layout for the drop arm. A plinth is required to be 400x250 wide and long, and 200mm deep. The concrete should be at least 15MPa strength, or to a civil engineers' specifications.

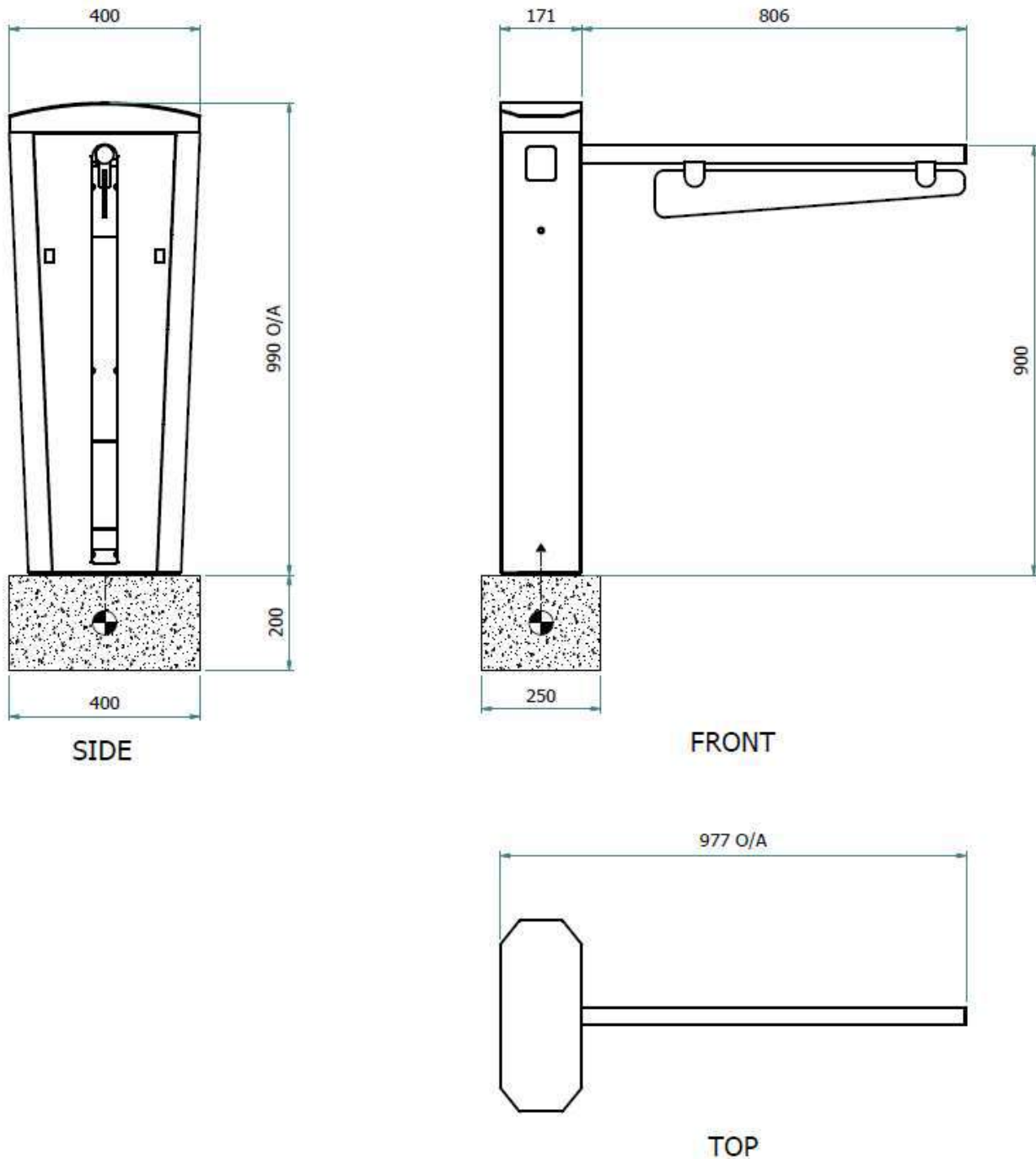


Figure 1: Typical layout of Drop Arm Barrier

- 1.2. The Barrier should be bolted down using 4 x RAWL sleeve anchors, M10 hex head cap screws at least 100mm deep.
- 1.3. There is a 95 x 45 opening on two sides off the centreline for power & control cable allowance.
- 1.4. The Barrier has a built-in controller and power supply and requires 220v AC 50Hz single phase power to be led to it. (For USA installations supplying 110V, see section 6)
- 1.5. The controller uses a common and a trigger for left opening and a trigger for right opening, normally open contact. These should be a dry contact pulse for 0,5 seconds.
- 1.6. Emergency hold open can be triggered from the terminal panel (*see paragraph 5.6, page 11.*). The trigger requires a latching contact to remain open (The emergency mode is active if the contact is closed.).
- 1.7. There is allowance for a reception trigger, which can be used with a remote or a pushbutton placed at the reception desk. The trigger has a push-to-open, push-to-close function.

2. PREPARATION FOR INSTALLATION

- 2.1. Below is a typical view for clearance required by the Barrier. At least 10mm is required at the back. At least 50mm is required from the arm edge to a wall and this should be no more than 100mm.

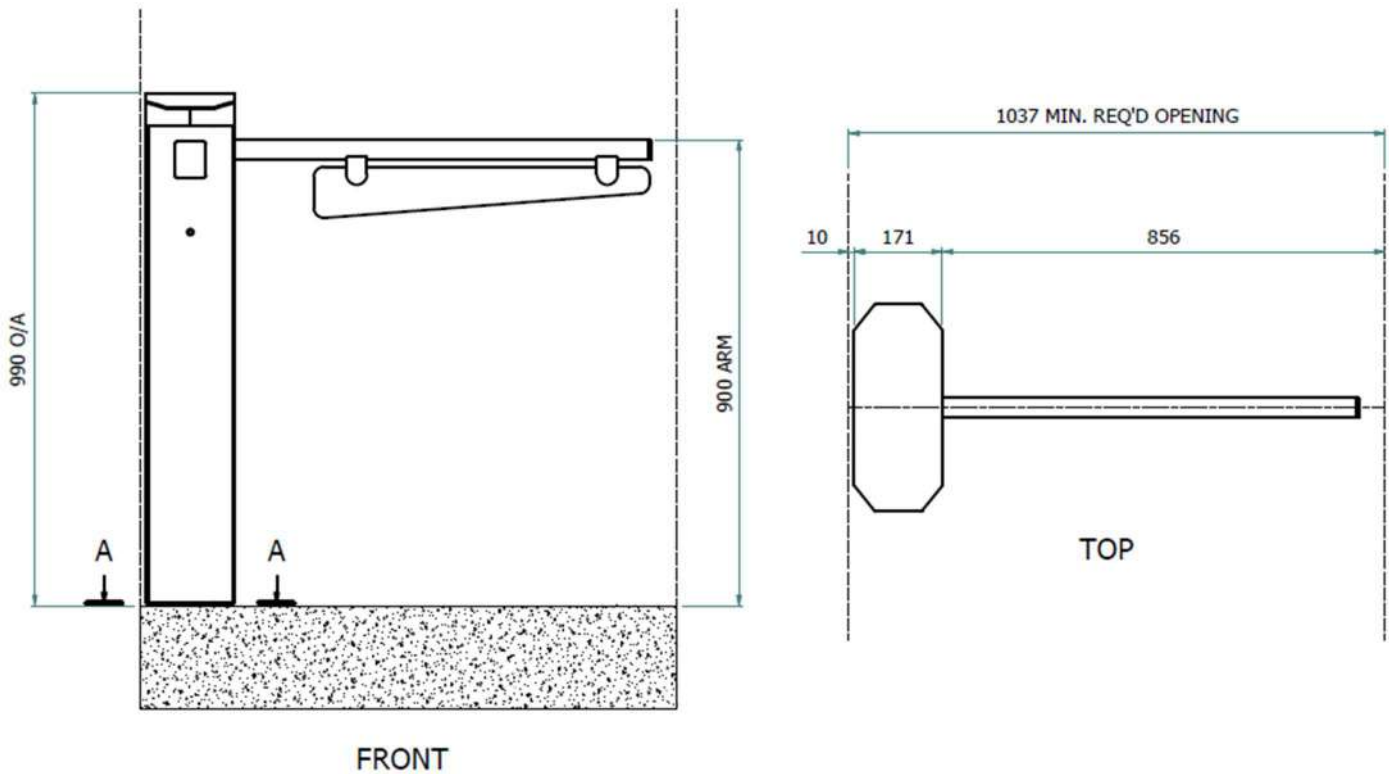


Figure 2: Installation clearance for the Drop Arm Barrier

- 2.2. Ensure the mounting area concrete strength is adequate and that a conduit is prepared for power & control cables. Also check that the floor is level and smooth.
- 2.3. The conduit should be flush with the floor and the power & control cables must extend +- 1000mm from floor level to reach the connection terminals.

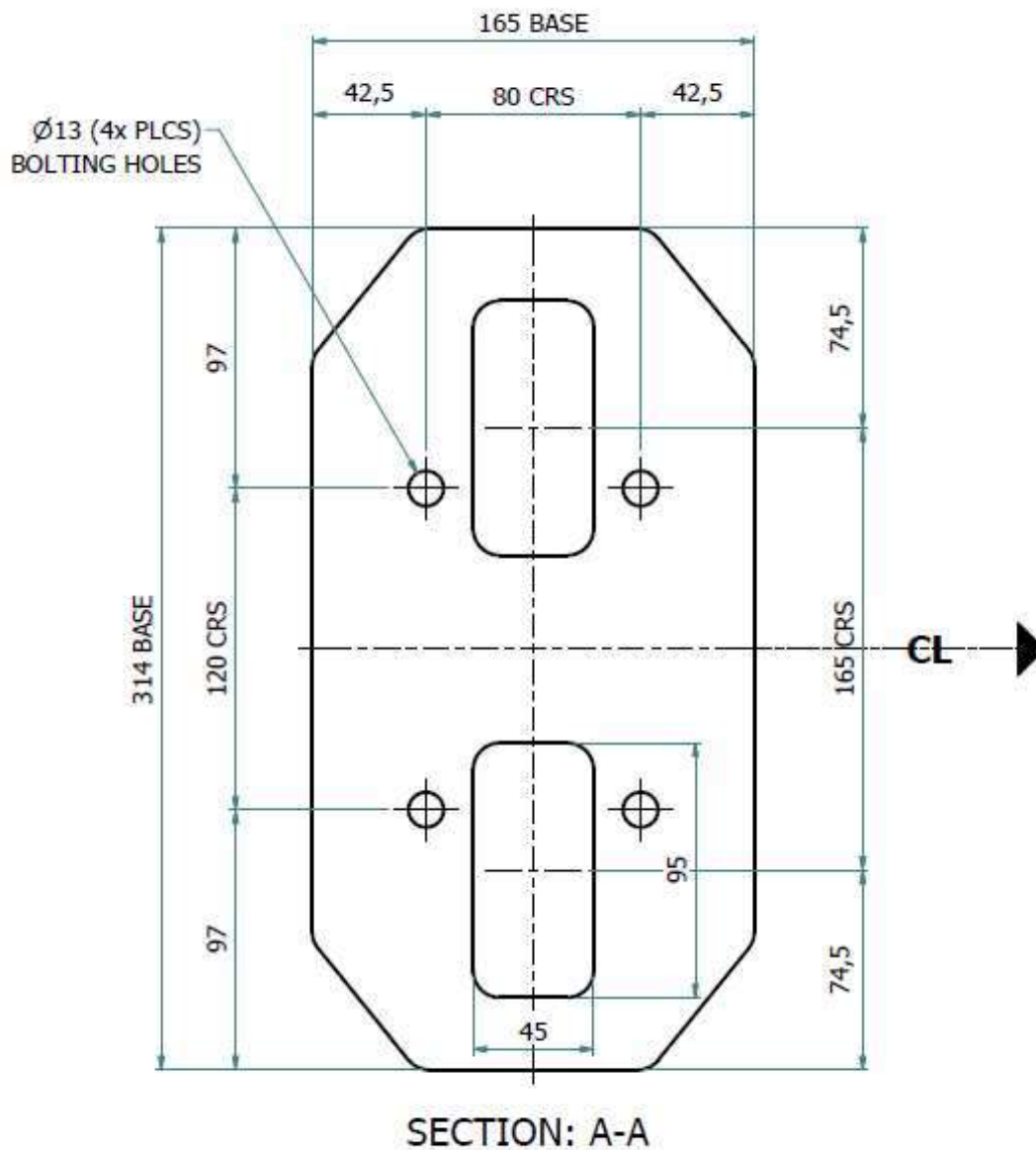


Figure 3: Base positioning & bolting holes

- 2.4. The base should be placed correctly positioned, with the centreline (CL) aligning with the centre line of the installation.
- 2.5. Place the base, mark the holes with chalk. Remove and drill holes in concrete.
- 2.6. Bolt down the base assembly using the 4x bolting holes and suitable M10 Capscrew anchors.

3. PARTS

3.1. Below is an exploded view of the drop arm Barrier and its main parts.

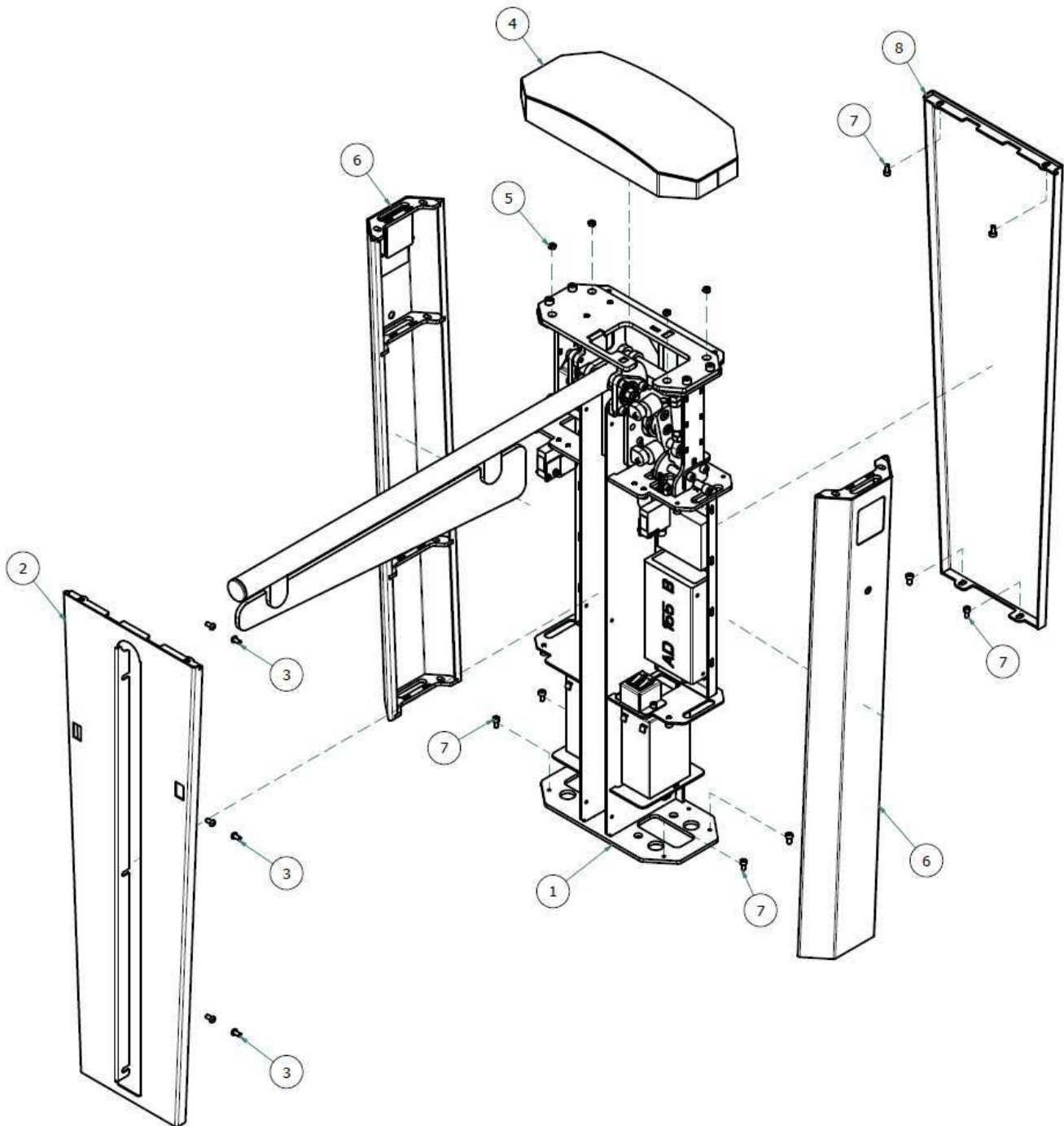


Figure 4: Drop Arm Barrier assembly

Item	Qty	Description	Part Number
1	1	Frame Assembly	DDA-WM-01
2	1	Front Cover	DDA-WM-07
3	6	M6x12 Buttonhead Capscrew, A2	M6x12-BHCS-A2
4	1	Top Cover	DDA-WM-06
5	4	M6 Hex Nut, A2	M6-HN-A2
6	2	Side Cover	DDA-WM-09
7	24	M6x12 Sockethead Capscrew, ZP	M6x12-SHCS-ZP
8	1	Back Cover	DDA-WM-08

4. OPENING & INSTALLATION

- 4.1. To open the structure, remove the M6 x12 buttonhead screws (3) on the front cover using a 4mm allen hex key. Lift off the front cover (2).
- 4.2. Remove the top cover (4) by loosening the M6 hex nuts (5) on the plate below and remove the side covers (6) by loosening the M6 x12 socket head screws (7) at the base. Lift off the top and side covers.
- 4.3. Remove the back cover (8) by loosening the M6 x12 socket head screws (7) at the bottom and at the top. Lift off the back cover.
- 4.4. Place the base on the floor over the conduit points as shown in *Figure 3: Base positioning & bolting holes*. Mark the hole positions for the holding down bolts as shown.
- 4.5. Drill the holes for the bolts and ensure that this lines up with the base holes.
- 4.6. Pull the cabling through the conduit points of the base, pull the cabling through to lead to the controls and mount the base down securely.
- 4.7. Connect the power and controls (see *section 5*) and test before replacing the body panels.

5. CONNECTIONS AND SETUP

5.1. In the DAB700TUR controller, the most used triggers are wired to the terminal rail.

5.2. The power connections for mains power are located on the black connector block.

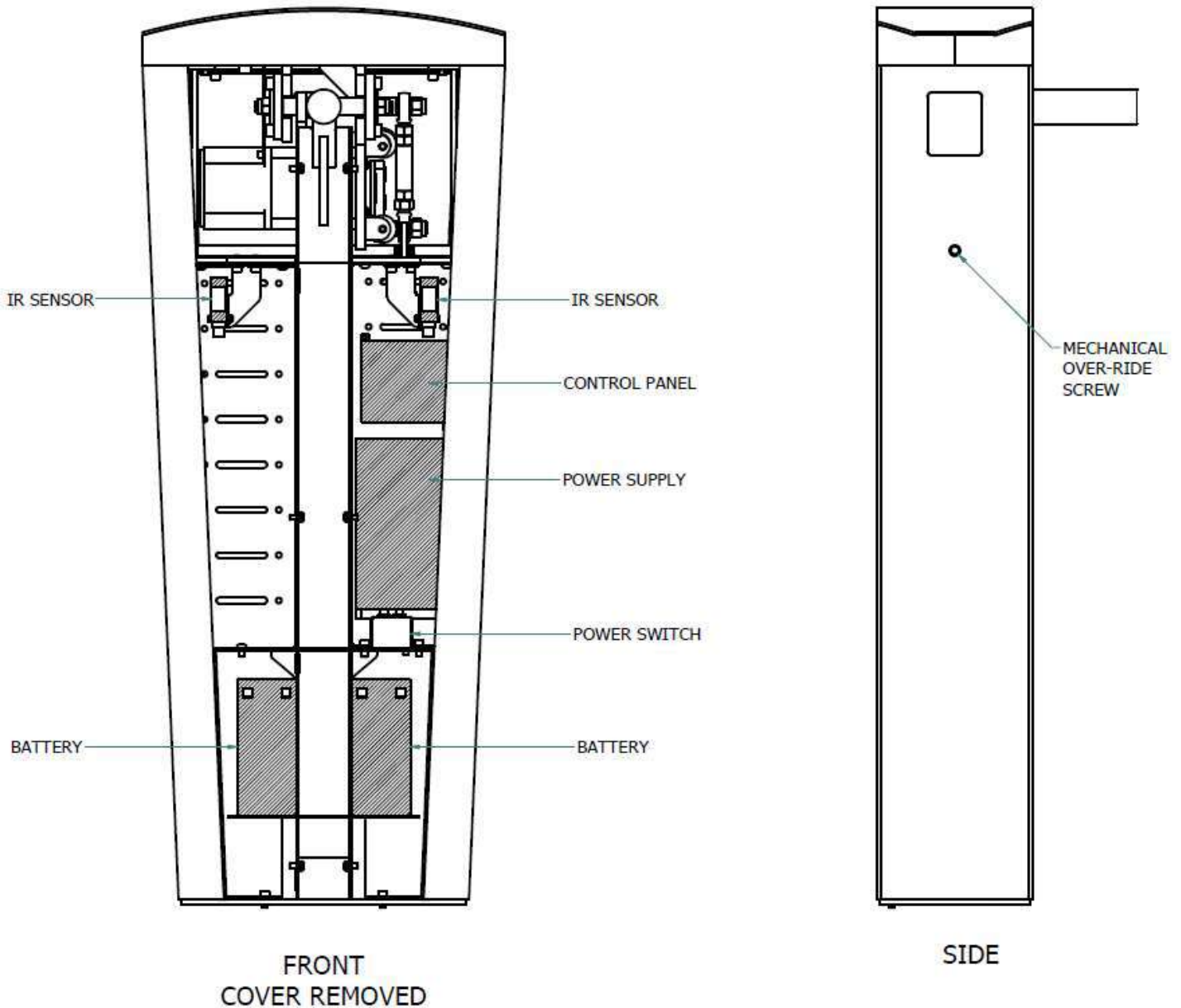


Figure 5: Locations of components & over-ride screw

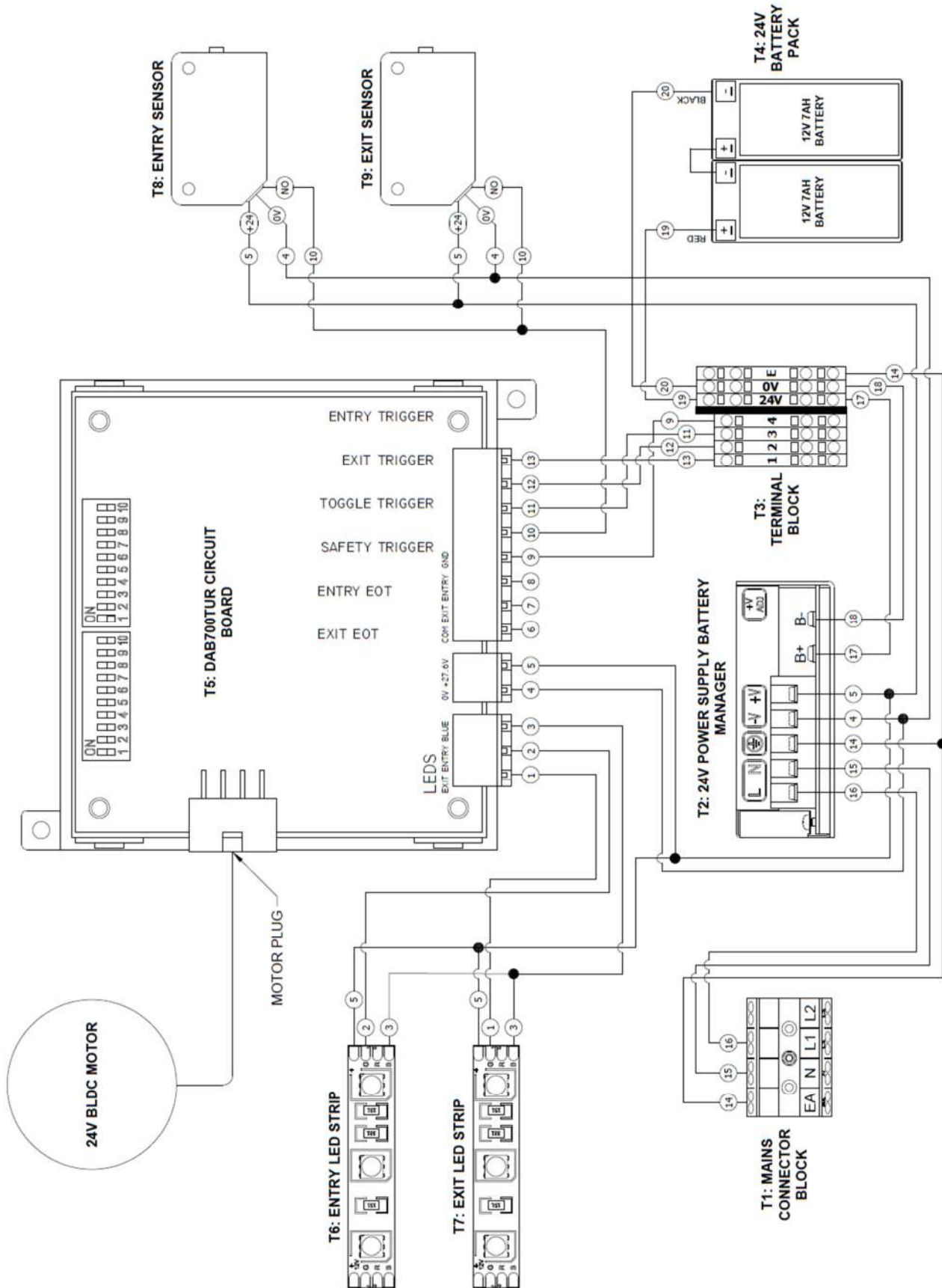


Figure 6: DAB700TUR Controller & Connections

- 5.3. Connect 220v AC live power as shown in the diagram *Figure 6: DAB700TUR Controller & Connections*.
- 5.4. Connect the terminals 1 and 4 (trigger A and ground), and the terminals 2 and 4 (trigger B and ground) to control direction 1 and 2. These are normally open dry contacts and require a pulse of 0,5 seconds closing the contact.
- 5.5. Connect terminals 1 and 4 as a latching trigger to control the emergency opening. If the contact remains closed, the Barrier will stay open.
- 5.6. Connect the terminals 3 and 4 (toggle trigger and ground) to use as an opening latch for a remote control or push button at the reception desk.

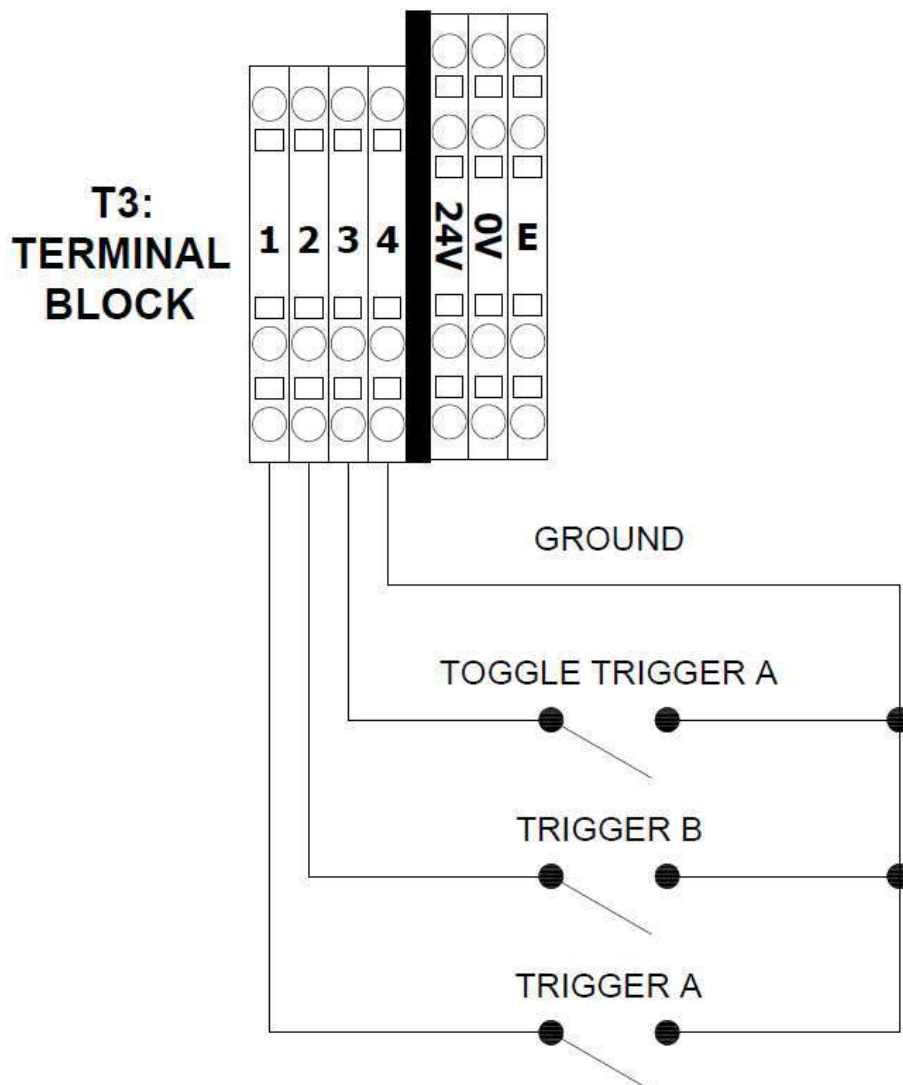


Figure 7: Client trigger connections

6. POWER SUPPLY AND VOLTAGE SELECTION

- 6.1. The power supply has a switch that should be set for either 220V or 110V (for USA installations). Remove the front screw, slide the perforated top back and up to remove, to access the switch.

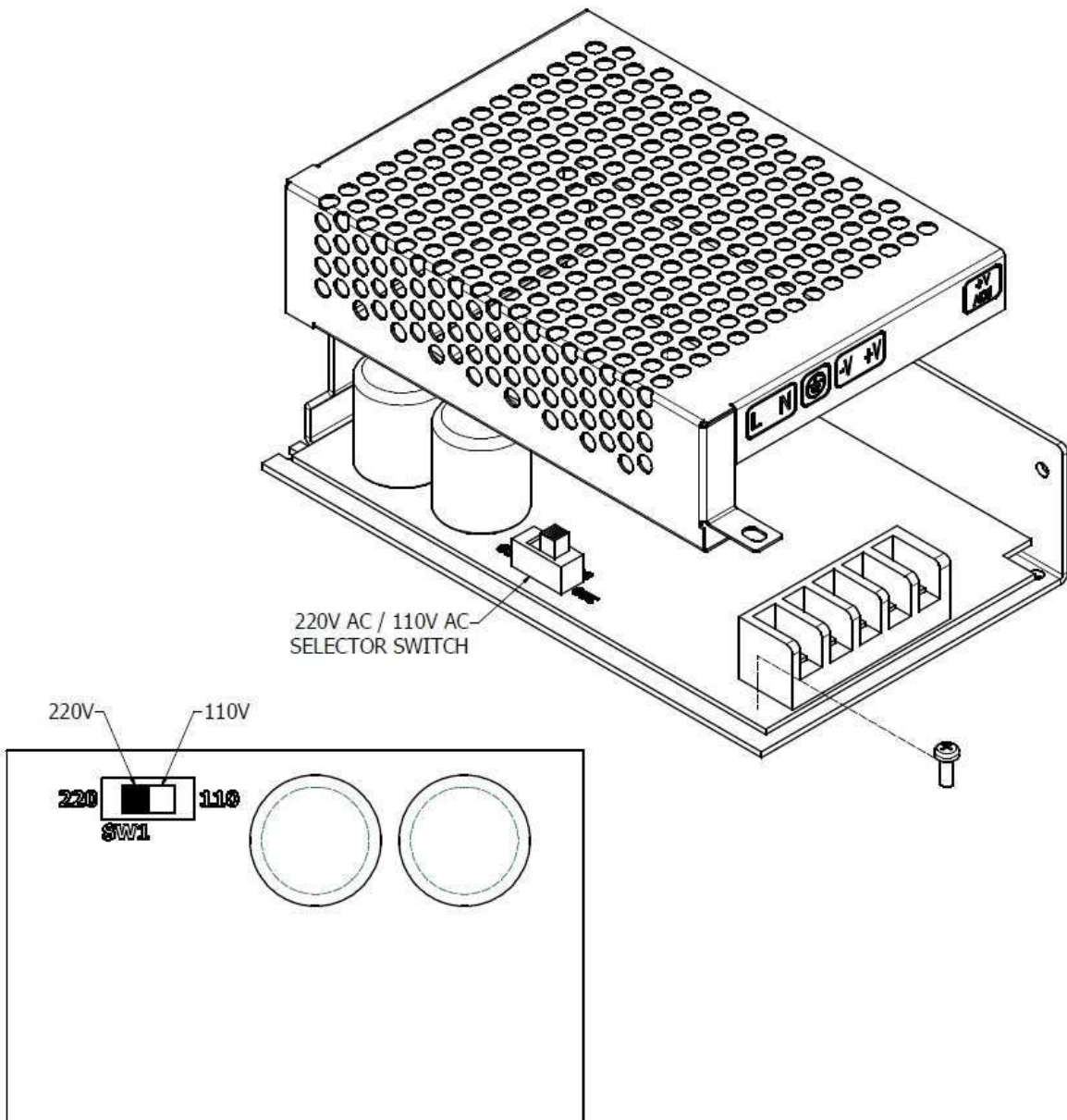


Figure 8: Power supply mains change 220v - 110v

7. MECHANICAL OVERRIDE ON POWER FAILURE

- 7.1. The Drop Arm barrier is geometrically locked even on power failure (and if batteries have been depleted) and the arm can be unlocked by turning the override screw located at the side of the barrier.
- 7.2. Using a number 8 Allen Head Key, turn the screw either anti-clockwise from the left or clockwise from the right of the barrier. Push the barrier arm down and into the cabinet.

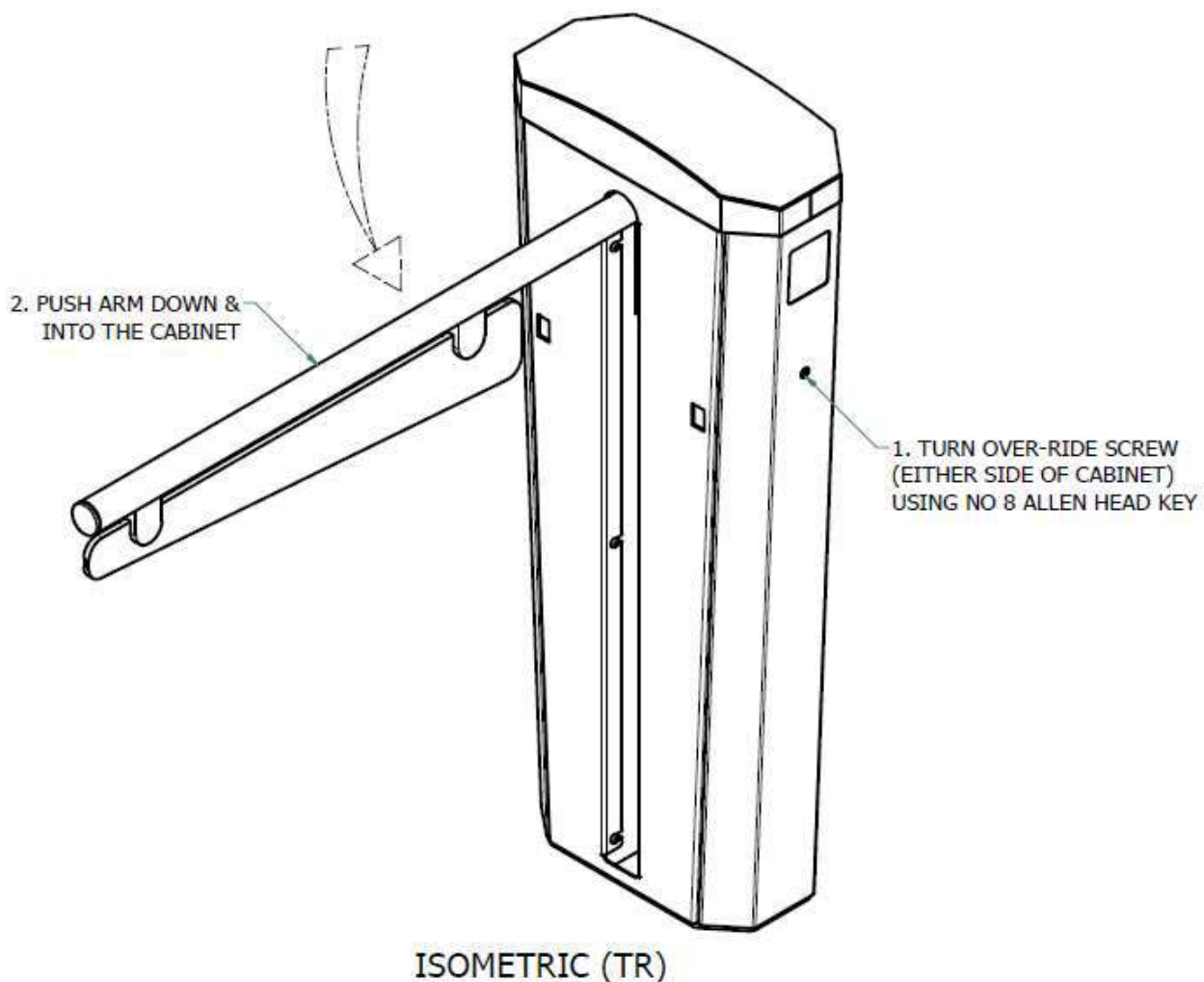


Figure 9: Mechanical Over-ride

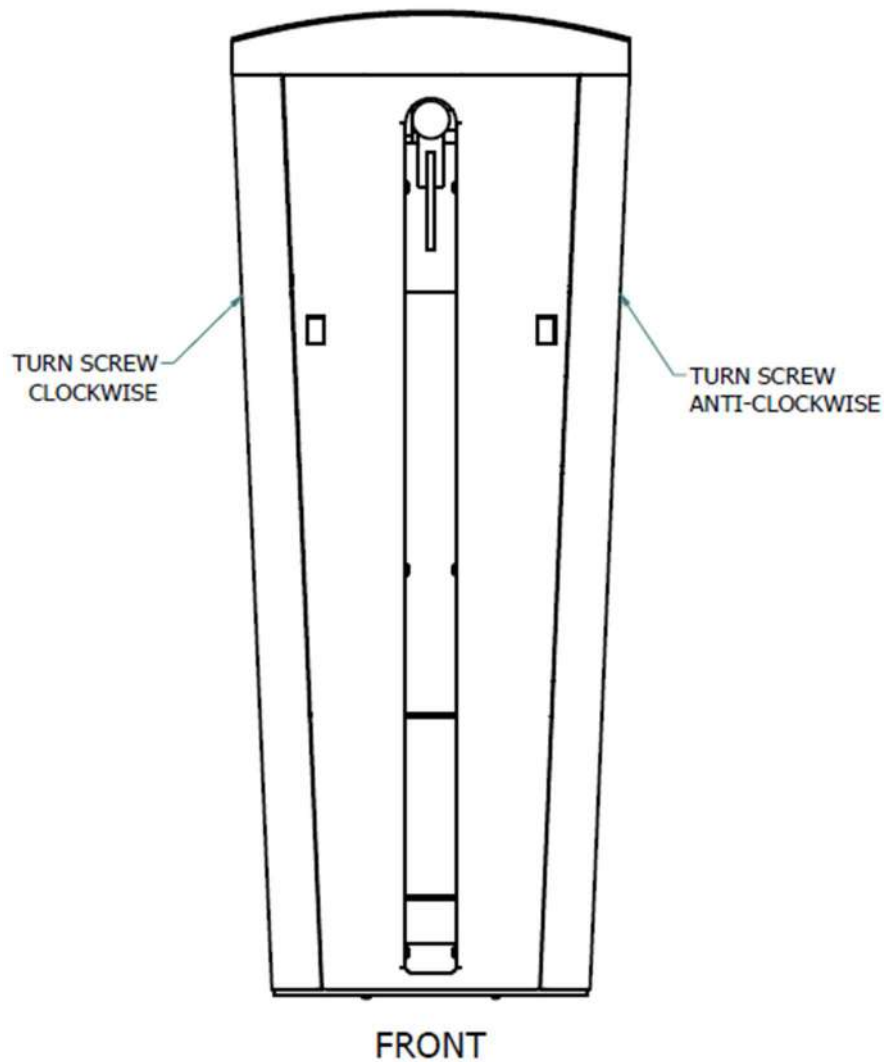


Figure 10: Mechanical Over-ride Rotation of screw

7.3. When power is restored to the unit, it will automatically reset, and the arm will return to the up position.

8. CONTROLLER SWITCH SETTINGS

Switch	Function	On	Off	
1,2	Barrier Open Speed - Slow	-	S1, S2	Controls the opening speed of the Barrier. The options are slow, medium slow, medium fast and fast.
1,2	Barrier Open Speed - Med. Slow	S1	S2	
1,2	Barrier Open Speed - Med. Fast	S2	S1	
1,2	Barrier Open Speed - Fast	S1, S2	-	
3,4	Barrier Close Speed - Slow	-	S3, S4	Controls the closing speed of the Barrier. The options are slow, medium slow, medium fast and fast.
3,4	Barrier Close Speed - Med. Slow	S3	S4	
3,4	Barrier Close Speed - Med. Fast	S4	S3	
3,4	Barrier Close Speed - Fast	S3, S4	-	
5	Barrier Motor Direction	CCW	CW	Controls the Barrier motor direction which is normally clockwise.
6	Spare	-	-	
7	Spare	-	-	
8	Spare	-	-	
9	Spare	-	-	
10	Spare	-	-	
11	Open Trigger Memory	ON	OFF	Trigger memory for storing multiple triggers. This is by default off.
12,13	Auto Close Timer – 6 Sec	-	S12, S13	

12,13	Auto Close Timer – 10 Sec	S12	S13	Controls the time the Barrier pauses after fully opening before closing again. The options are 6, 10, 15 and 20 seconds.
12,13	Auto Close Timer – 15 Sec	S13	S12	
12,13	Auto Close Timer – 20 Sec	S12, S13	-	
14,15	Close Delay – 0 Sec	-	S14, S15	Delay before closing after the closing signal from a toggle trigger is received. The options are 0, 0.5, 1 and 2 seconds.
14,15	Close Delay – 0.5 Sec	S14	S15	
14,15	Close Delay – 1 Sec	S15	S14	
14,15	Close Delay – 2 Sec	S14, S15	-	
16	Safety Buzzer	ON	OFF	Buzzer sound on wrong direction entry.
17	Spare	-	-	
18	Trigger Hold Open	ON	OFF	Hold open function for trigger if contact is closed indefinitely.
19	LEARN MODE – Switch ON for 5 seconds	ON	OFF	For factory settings.
20	Test Mode – 2 Second Auto Cycle	ON	OFF	

9. **DRAWINGS**

9.1. Drawings that are included with this manual is listed below:

- 9.1.1. DDA-AS-01 – Rev. 10 (Sheet 1 & 2)
- 9.1.2. DDA -SA-05 – Rev. 10
- 9.1.3. DDA -SA-06 – Rev. 10
- 9.1.4. DDA -SA-07 – Rev. 10
- 9.1.5. DDA -SA-14 – Rev. 10
- 9.1.6. DDA -SA-17 – Rev. 10
- 9.1.7. DDA -SA-18 – Rev. 10
- 9.1.8. DDA -SA-20 – Rev. 10
- 9.1.9. 1417-WD-01 – Rev. 0
- 9.1.10. 1417-WD-02 – Rev. 0



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Fax: +27(0)11 440 5839

PROJECT:
DYNAMIC DROP ARM



DIMENSIONAL TOLERANCES (UNLESS OTHERWISE SPECIFIED):

FROM:	TO	TOLERANCE
0	25	± 0,25
26	100	± 0,50
101	250	± 1,00
251	500	± 1,50
501	1000	± 2,50
1001	>	± 3,00

APPROVALS:

Drawn By:	BP NEL	2022/01/18
Designed By:	BP NEL	2022/01/18
Checked By:	C SACKS	2022/01/18
Eng Approved:	C SACKS	2022/01/18

MASS:
49,13 kg

MATERIAL:
Steel, Mild

FINISH:
POWDER COAT

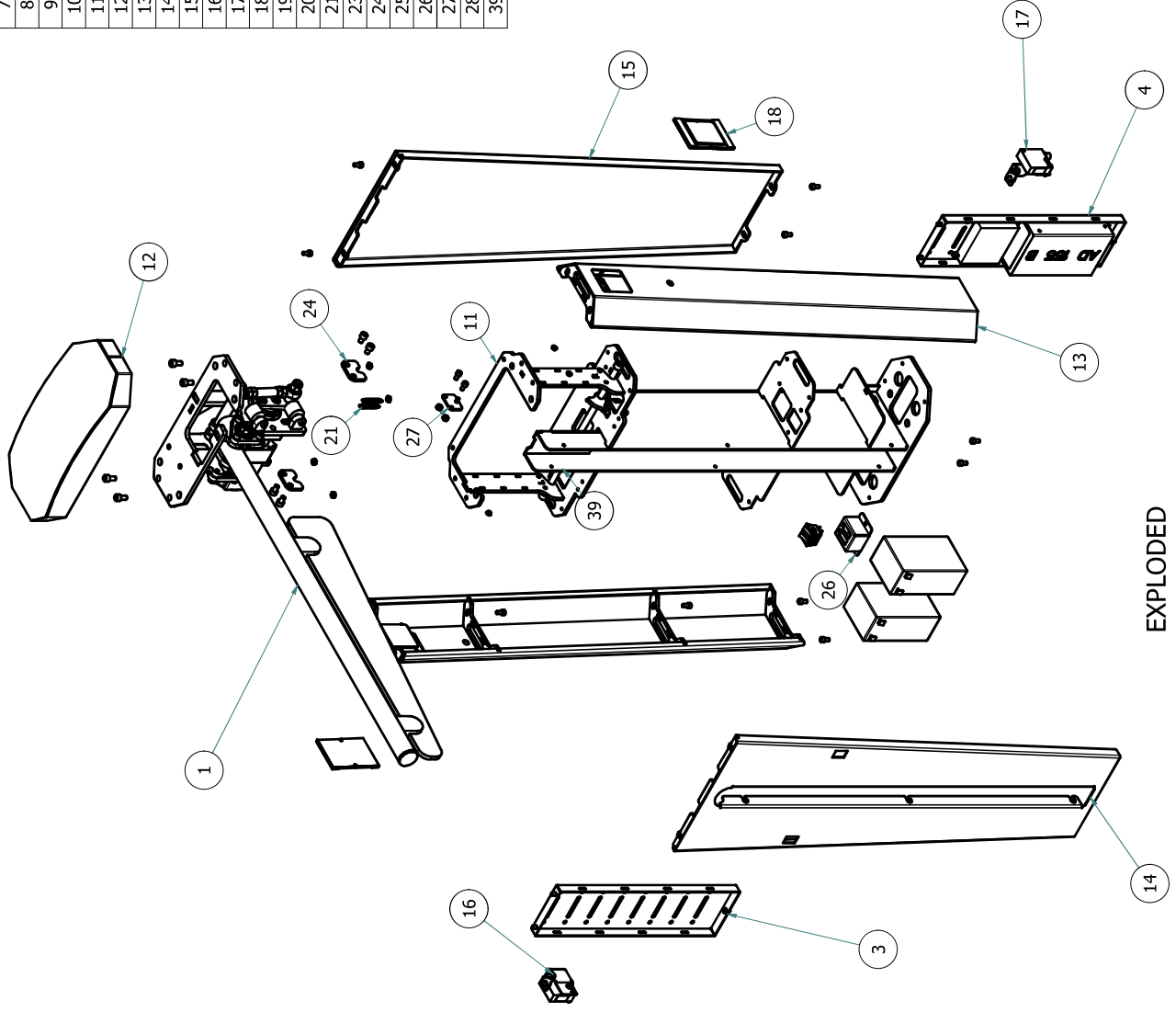
DESCRIPTION:
DYNAMIC DROP ARM ASSEMBLY

PART NUMBER:
DDA-AS-01

REV:
10

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	DDA-SA-20	SUB ASSEMBLY: ARM MECHANISM
2	2	BATTERY-7AH-12V	BATTERY-7AH-12V
3	1	DDA-SA-13	MONTING PLATE 1 SUB-ASSEMBLY
4	1	DDA-SA-14	MONTING PLATE 2 SUB-ASSEMBLY
5	6	M6x12-BHCS-A2	M6x12 BUTTONHEAD CAPSCREW, A2
6	24	M6x12-SHCS-ZP	M6x12 SOCKETHEAD CAPSCREW, ZP
7	4	M6-HN-A2	M6 HEX NUT, A2
8	4	M8x16-PFW-ZP	M8x16 PLAIN FLAT WASHER, ZP
9	4	M8x16-SHCS-ZP	M8x16 SOCKETHEAD CAPSCREW, ZP
10	6	M6x10-BHCS-ZP	M6x10 BUTTONHEAD CAPSCREW, ZP
11	1	DDA-WM-01	FRAME
12	1	DDA-WM-06	WELDMENT TOP COVER
13	2	DDA-WM-09	WELDMENT SIDE COVER
14	1	DDA-WM-07	WELDMENT FRONT COVER
15	1	DDA-WM-08	WELDMENT BACK COVER
16	1	DDA-SA-06	SENSOR-ACDC BRACKET
17	1	DDA-SA-07	SENSOR-ACDC BRACKET
18	2	DDA-SA-05	SIDE LIGHT ASSEMBLY
19	4	M4x10-PFW-ZP	M4x10 PLAIN FLAT WASHER, ZP
20	4	M4-HN-ZP	M4 HEX NUT, GR5
21	2	VEVB-PT-07	UNLOCK SPRING
23	4	M8x12-SHCS-ZP	M8x12 SOCKETHEAD CAPSCREW, ZP
24	2	DDA-LC-67	TAB
25	2	KCD3	KCD3
26	1	DDA-LC-38	SWITCH HOLDER
27	1	DDA-WM-26	SPRING HOLDER
28	2	M6-HN-ZP	M6 HEX NUT, ZP
39	1	DDA-WM-18	UNLOCK ARM WELDMENT



EXPLODED



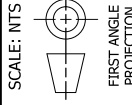
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PROJECT:

DYNAMIC DROP ARM



DIMENSIONAL TOLERANCES
(UNLESS OTHERWISE SPECIFIED):

FROM:	TO	TOLERANCE
0	25	+- 0,25
26	100	+- 0,50
101	250	+- 1,00
251	500	+- 1,50
501	1000	+- 2,50
1001	>	+- 3,00

APPROVALS:

Drawn By:	BP NEL	2022/01/18
Designed By:	BP NEL	2022/01/18
Checked By:	C SACKS	2022/01/18
Eng Approved:	C SACKS	2022/01/18

MASS:

49,13 kg

MATERIAL:

Steel, Mild

FINISH:

POWDER COAT

DESCRIPTION:

DYNAMIC DROP ARM ASSEMBLY

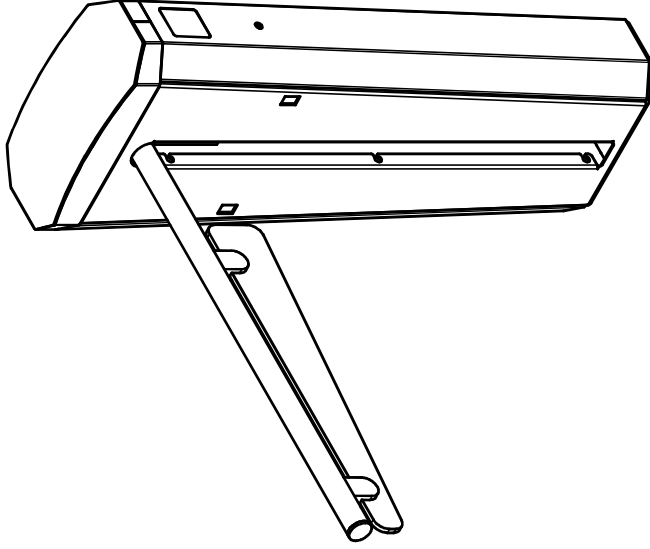
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DDA-AS-01

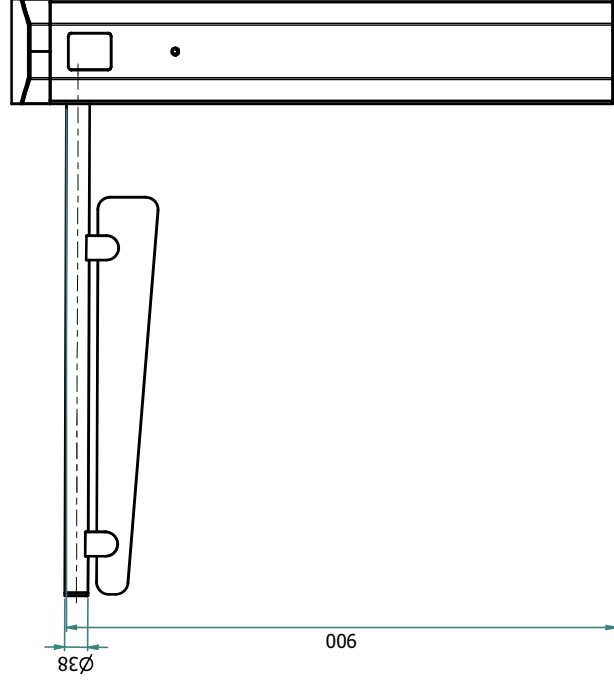
REV:

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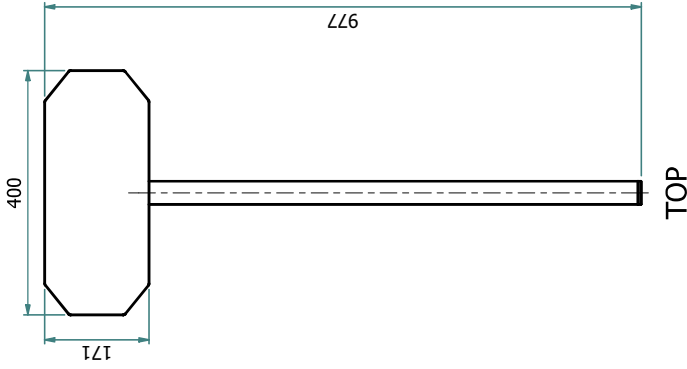
SHEET 2 OF 2



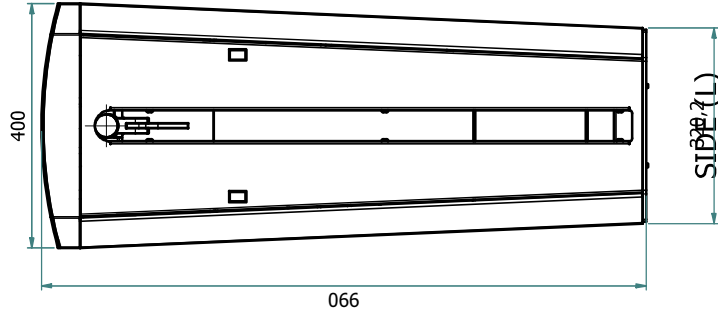
ISOMETRIC (TL)



FRONT



TOP



SIDE (L)



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FROM:	TO	TOLERANCE
0	25	± 0,25
26	100	± 0,50
101	250	± 1,00
251	500	± 1,50
501	1000	± 2,50
1001	>	± 3,00

APPROVALS:

Drawn By:	Ben	2022/01/18
Designed By:	Ben	2022/01/18
Checked By:	C SACKS	2022/01/18
Eng Approved:	C SACKS	2022/01/18

MASS: 0,05 kg

MATERIAL: PLASTIC & VINYL

FINISH: NATURAL

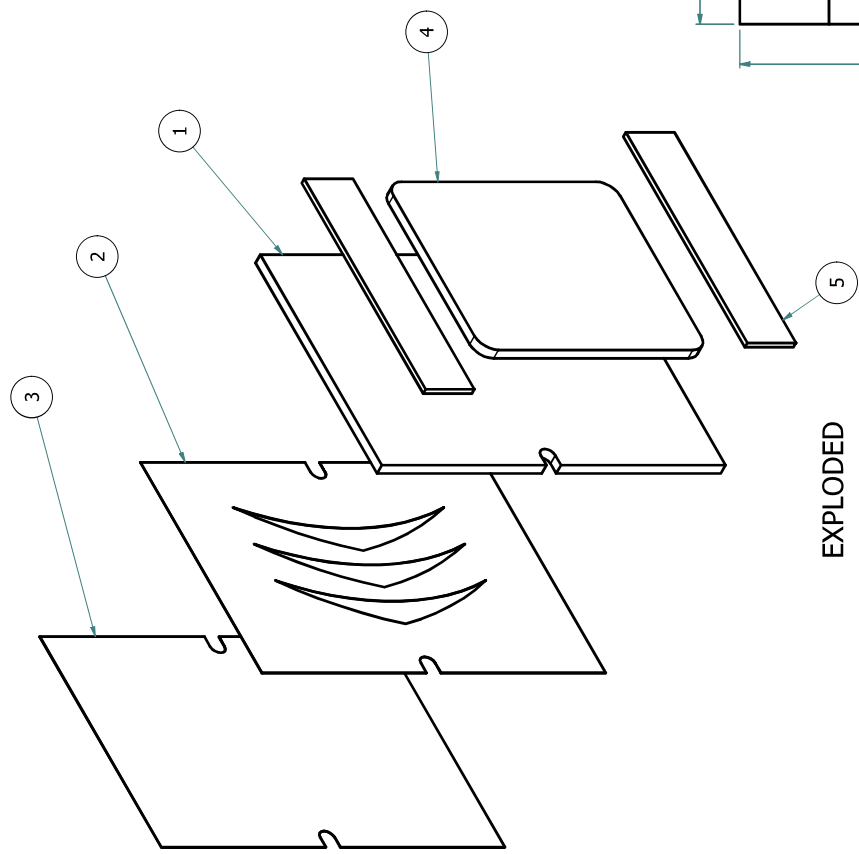
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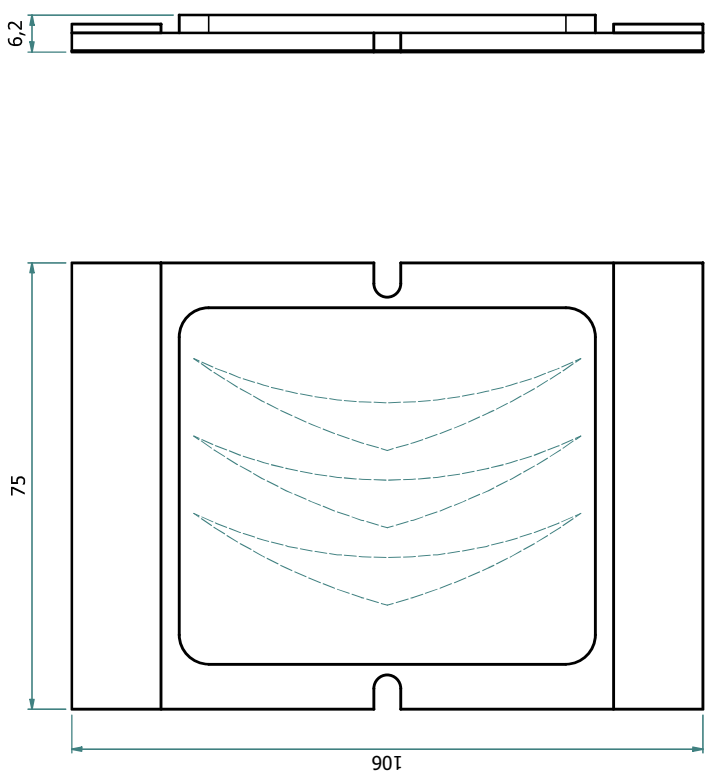
REV: **10**

PARTS LIST

ITEM QTY	PART NUMBER	DESCRIPTION
1 1	DDA-PT-01	SIDE LIGHT PANEL VINYL
2 1	DDA-PT-02	SIDE LIGHT PANEL VINYL
3 1	DDA-PT-03	BACKLIGHT VINYL
4 1	DDA-PT-04	SIDE LIGHT PANEL
5 2	2701_DST_15X75	DOUBLE SIDED TAPE



PARTS ARE LAMINATED TOGETHER



MANUFACTURE:
 1 X RH and 1 X LH

SIDE (L)

BACK



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FROM:	TO	TOLERANCE
0	25	+- 0,25
26	100	+- 0,50
101	250	+- 1,00
251	500	+- 1,50
501	1000	+- 2,50
1001	>	+- 3,00

APPROVALS:

Drawn By:	Ben	2022/01/18
Designed By:	Ben	2022/01/18
Checked By:	C SACKS	2022/01/18
Eng Approved:	C SACKS	2022/01/18

MASS: 0,10 kg

MATERIAL: Steel, Mild

FINISH: POWDER COAT

DESCRIPTION: **SENSOR-ACDC BRACKET**

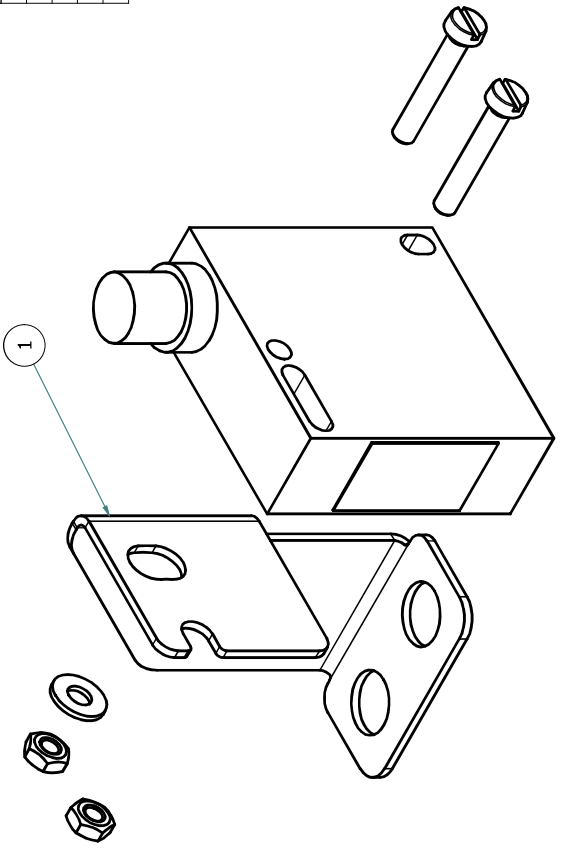
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REV: **10**

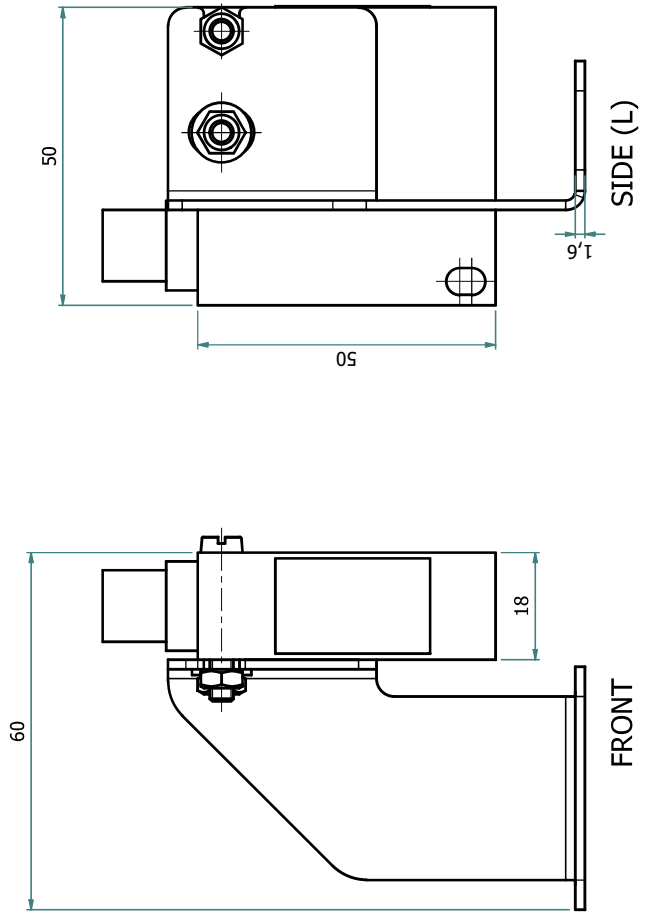
SHEET 1 OF 1

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	DDA-LC-32	BRACKET
2	1	SENSOR-ACDC	SENSOR-ACDC
3	2	M4X25-SCHS-ZP	M4X25 SLOTTED CHEESEHEAD SCREW, ZP
4	1	M4X10-PFW-ZP	M4X10 PLAIN FLAT WASHER, ZP
5	2	M4-HN-ZP	M4 HEX NUT, GR6



EXPLODED





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PROJECT: **DYNAMIC DROP ARM**



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FROM:	TO	TOLERANCE
0	25	± 0.25
26	100	± 0.50
101	250	± 1.00
251	500	± 1.50
501	1000	± 2.50
1001	>	± 3.00

APPROVALS:

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Designed By:	Ben	2022/01/18
Checked By:	C SACKS	2022/01/18
Eng Approved:	C SACKS	2022/01/18

MASS: 0,10 kg

MATERIAL: Steel, Mild

FINISH: POWDER COAT

DESCRIPTION: **SENSOR-ACDC BRACKET**

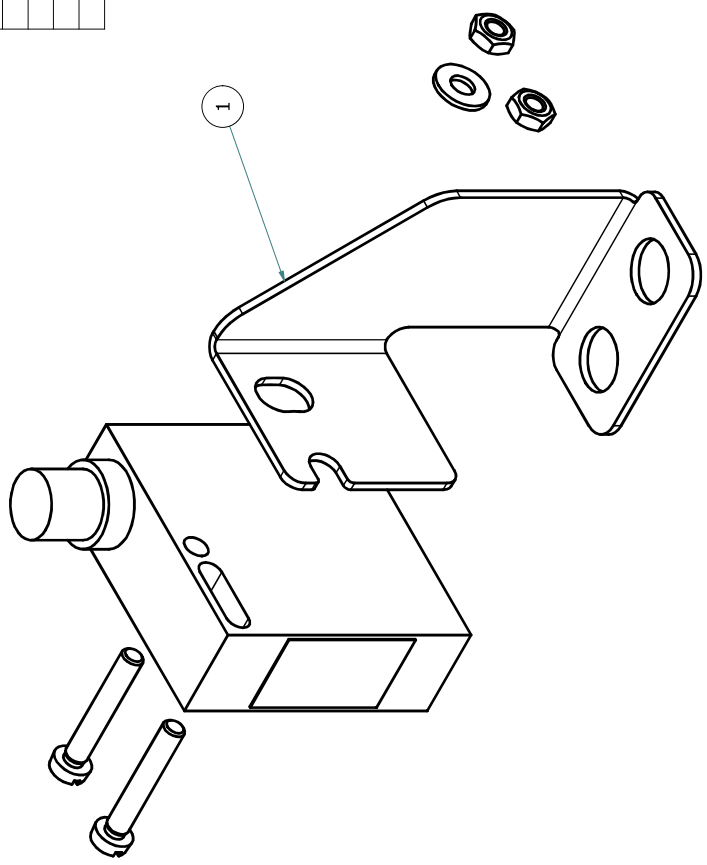
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REV: **10**

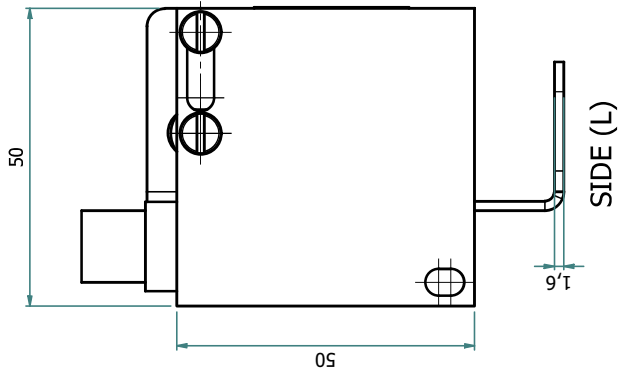
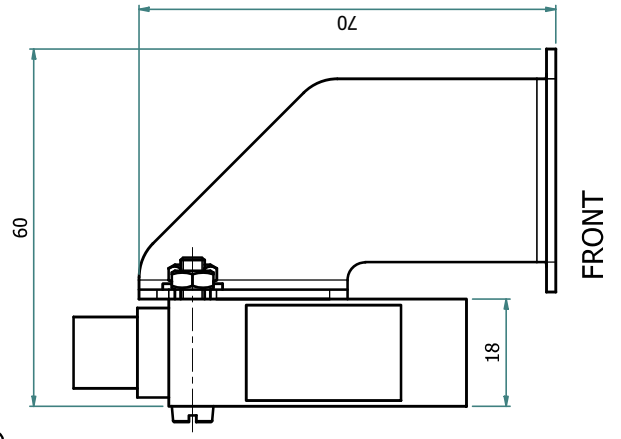
SHEET 1 OF 1

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	DDA-LC-33	BRACKET
2	1	SENSOR-ACDC	SENSOR-ACDC
3	2	M4x25-SCHS-ZP	M4x25 SLOTTED CHEESEHEAD SCREW, ZP
4	1	M4x10-PPW-ZP	M4x10 PLAIN FLAT WASHER, ZP
5	2	M4-HN-ZP	M4 HEX NUT, GR6



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101	250	± 1,00
251	500	± 1,50
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1001	>	± 3,00

APPROVALS:

Drawn By:	Ben	2022/01/18
Designed By:	Ben	2022/01/18
Checked By:	C SACKS	2022/01/18
Eng Approved:	C SACKS	2022/01/18

MASS:
 2,60 kg

MATERIAL:
 Steel, Mild

FINISH:
 POWDER COAT

DESCRIPTION:
**MONTING PLATE 2
 SUB-ASSEMBLY**

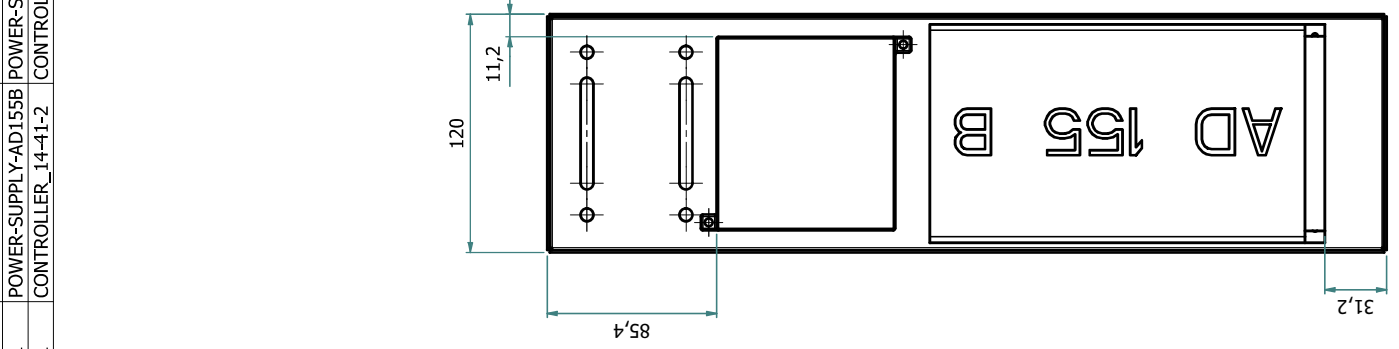
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DDA-SA-14

REV:
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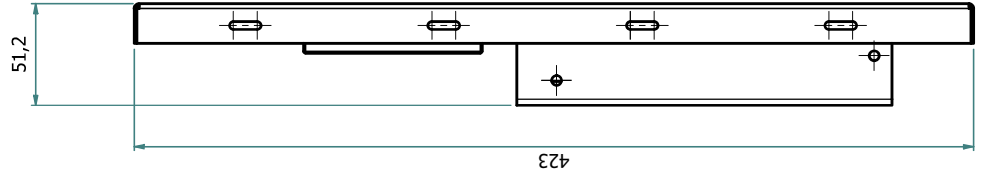
SHEET 1 OF 1

PARTS LIST

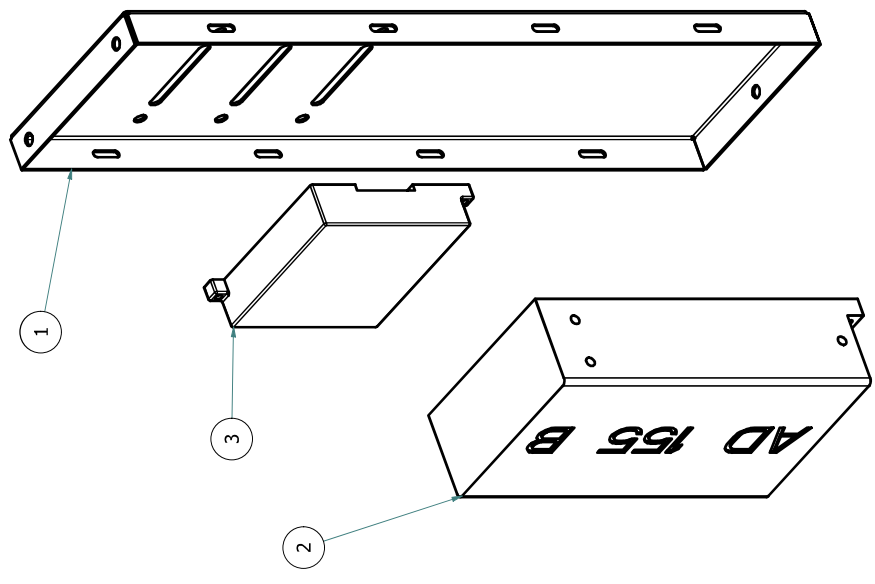
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	DDA-LC-50	MONTING PLATE 2
2	1	POWER-SUPPLY-AD155B	POWER-SUPPLY-AD155B
3	1	CONTROLLER_14-41-2	CONTROLLER_14-41-2



FRONT



SIDE (R)



EXPLODED

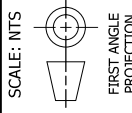


Turnstar Systems (Pty) Ltd.
18, 6th Street
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Sandton
2090
South Africa

Tel: +27(0)11 786 1633
Fax: +27(0)11 440 5839

PROJECT:

DYNAMIC DROP ARM



DIMENSIONAL TOLERANCES
(UNLESS OTHERWISE SPECIFIED):

FROM:	TO	TOLERANCE
0	25	± 0,25
26	100	± 0,50
101	250	± 1,00
251	500	± 1,50
501	1000	± 2,50
1001	>	± 3,00

APPROVALS:

Drawn By:	Ben	2022/01/18
Designed By:	Ben	2022/01/18
Checked By:	C SACKS	2022/01/18
Eng Approved:	C SACKS	2022/01/18

MASS:

0,21 kg

MATERIAL:

MILD STEEL

FINISH:

GALV

DESCRIPTION:

SUB ASSEMBLY: BEARING HOUSING

PART NUMBER:

DDA-SA-17

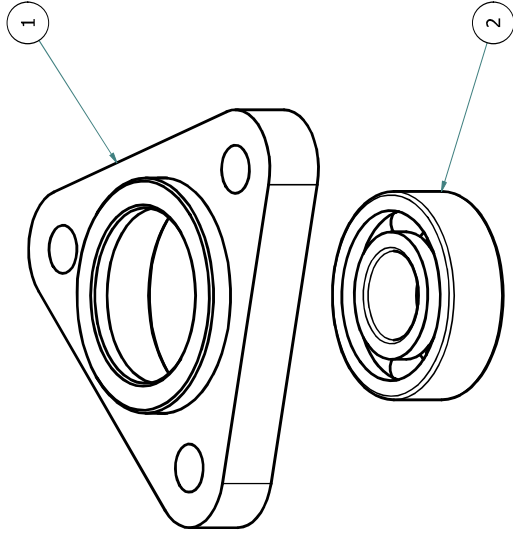
REV:

10

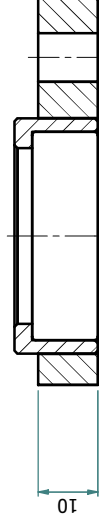
SHEET 1 OF 1

PARTS LIST

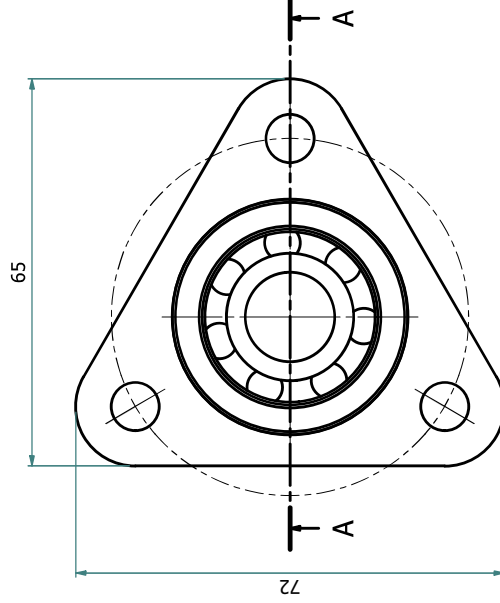
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	DDA-WM-13	WELDMENT BEARING HOUSING
2	1	6202-2RSH-DGBB	35 OD x 15 ID x 11 H DEEP GROOVE BALL BEARING, 2RS



EXPLODED



SECTION: A-A



TOP



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PROJECT: **DYNAMIC DROP ARM**



DIMENSIONAL TOLERANCES (UNLESS OTHERWISE SPECIFIED):

FROM:	TO	TOLERANCE
0	25	+- 0,25
26	100	+- 0,50
101	250	+- 1,00
251	500	+- 1,50
501	1000	+- 2,50
1001	>	+- 3,00

APPROVALS:

Drawn By:	Ben	2022/01/18
Designed By:	Ben	2022/01/18
Checked By:	C SACKS	2022/01/18
Eng Approved:	C SACKS	2022/01/18

MASS: 0,29 kg

MATERIAL: SS 304

FINISH: NATURAL

DESCRIPTION: **SUB ASSEMBLY: ADJUSTABLE LINK**

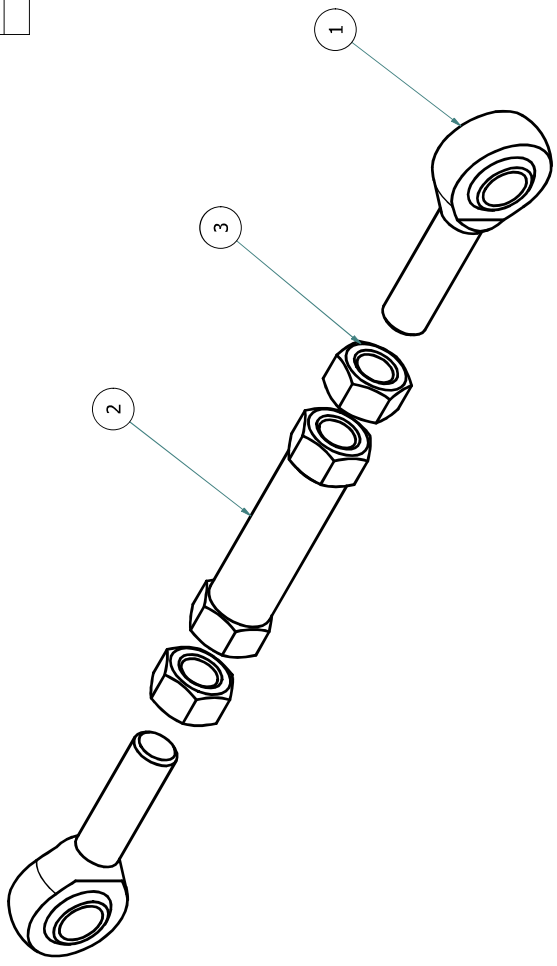
PART NUMBER: **DDA-SA-18**

REV: **10**

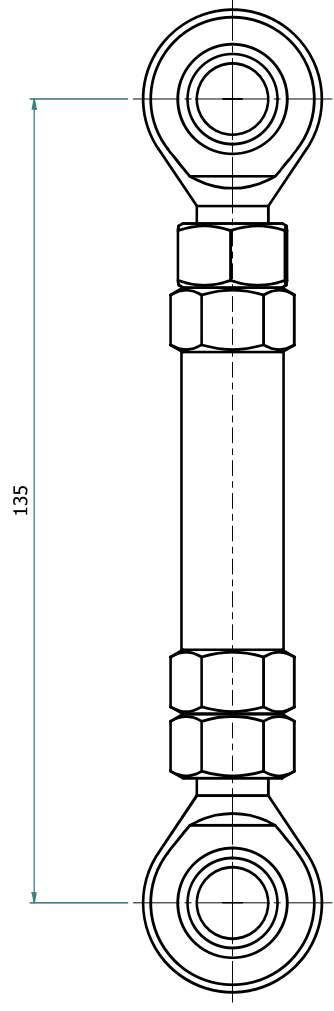
SHEET 1 OF 1

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	ROD-END-MALE_M12	ROD END - M12
2	1	DDA-WM-14	WELDMENT ADJUSTABLE LINK
3	2	M12-HN-A2	M12 HEX NUT, A2



EXPLODED



FRONT

PROJECT:
DYNAMIC DROP ARM



DIMENSIONAL TOLERANCES (UNLESS OTHERWISE SPECIFIED):

FROM:	TO	TOLERANCE
0	25	± 0.25
26	100	± 0.50
101	250	± 1.00
251	500	± 1.50
501	1000	± 2.50
1001	>	± 3.00

APPROVALS:

Drawn By:	Ben	2022/01/18
Designed By:	Ben	2022/01/18
Checked By:	C SACKS	2022/01/18
Eng Approved:	C SACKS	2022/01/18

MASS:
 9,47 kg

MATERIAL:
 304 SS + MILD STEEL

FINISH:
 BRUSHED

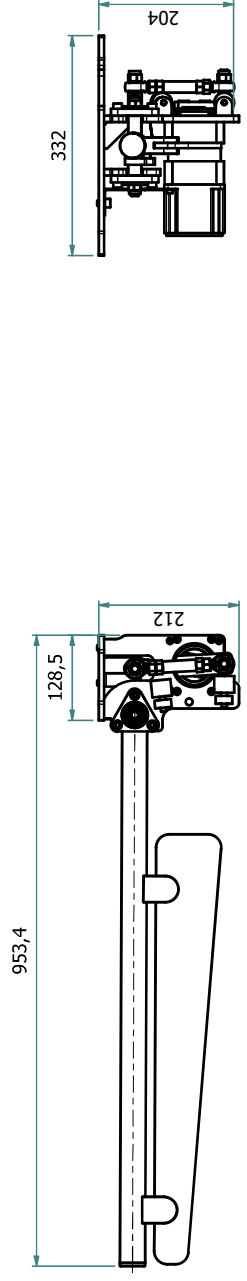
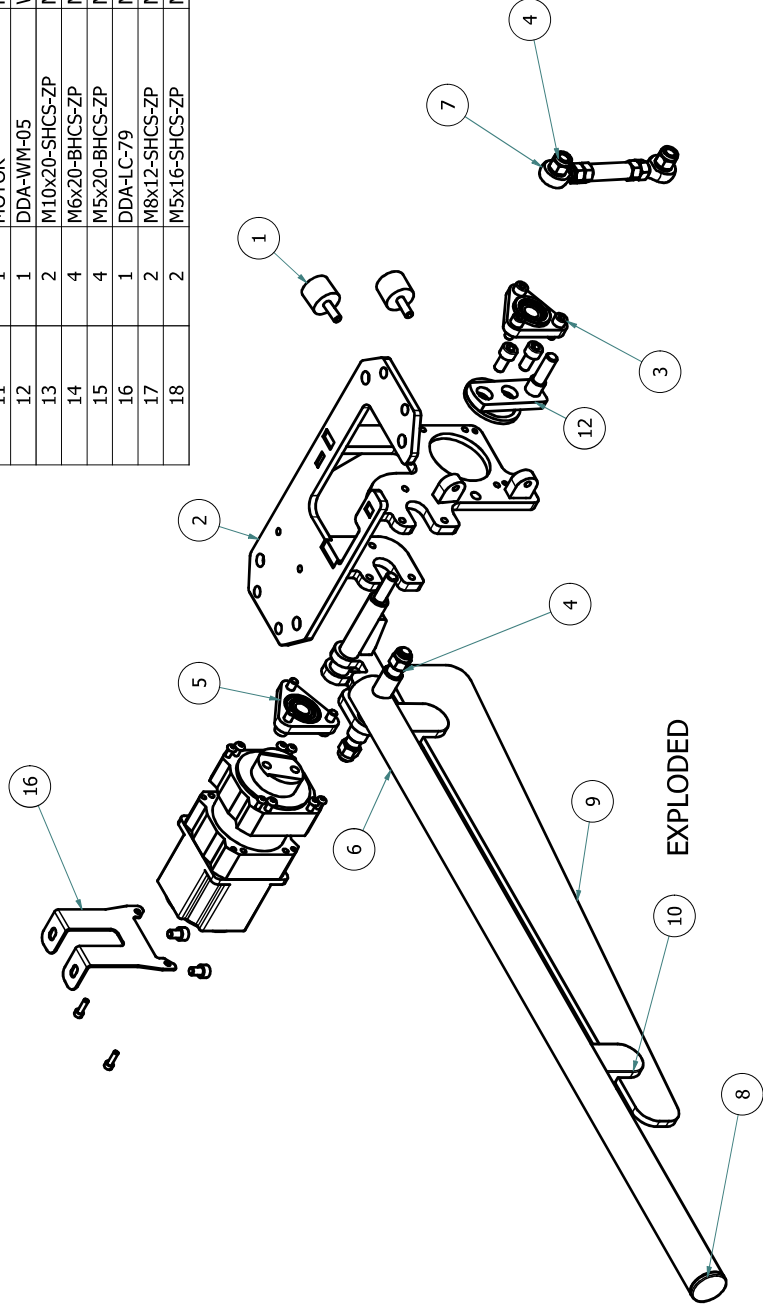
DESCRIPTION:
SUB ASSEMBLY: ARM MECHANISM

PART NUMBER:
DDA-SA-20

REV:
10

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	RUBBER-STOPPER	RUBBER-STOPPER
2	1	DDA-WM-16	WELDMENT MOTOR BRACKET
3	6	M8x20-SHCS-ZP	M8x20 SOCKETHEAD CAPSCREW, ZP
4	4	M12-NHN-ZP	M12 NYLOCK HEX NUT, ZP
5	2	DDA-SA-17	SUB ASSEMBLY: BEARING HOUSING
6	1	DDA-WM-11	WELDMENT ARM
7	1	DDA-SA-18	SUB ASSEMBLY: ADJUSTABLE LINK
8	1	DDA-PT-05	PLASTIC CAP
9	1	DDA-PT-06	ARM
10	2	DDA-PT-07	CLAMP - DJA 38 - 1SSS
11	1	MOTOR	MOTOR
12	1	DDA-WM-05	WELDMENT MOTOR DRIVE
13	2	M10x20-SHCS-ZP	M10x20 SOCKETHEAD CAPSCREW, ZP
14	4	M6x20-BHCS-ZP	M6x20 BUTTONHEAD CAPSCREW, ZP
15	4	M5x20-BHCS-ZP	M5x20 BUTTONHEAD CAPSCREW, ZP
16	1	DDA-LC-79	MOTOR STABILIZING PLATE
17	2	M8x12-SHCS-ZP	M8x12 SOCKETHEAD CAPSCREW, ZP
18	2	M5x16-SHCS-ZP	M5x16 SOCKETHEAD CAPSCREW, ZP



SIDE (L)

FRONT

PROJECT #:

1417

PROJECT:

DYNAMIC DROP ARM

SITE:

CLIENT:

DIMENSION TOLERANCES (Unless otherwise specified):		SCALE: NTS
FROM:	TO	TOLERANCE
0	25	+ - 0.25
26	100	+ - 0.50
101	250	+ - 1.00
251	500	+ - 1.50
501	1000	+ - 2.50
1001	>	+ - 3.00

APPROVALS: PAGE SIZE: A4

Drawn: Eric Swart 22/04/2022

Checked: ----

Approved: ----

DESCRIPTION:

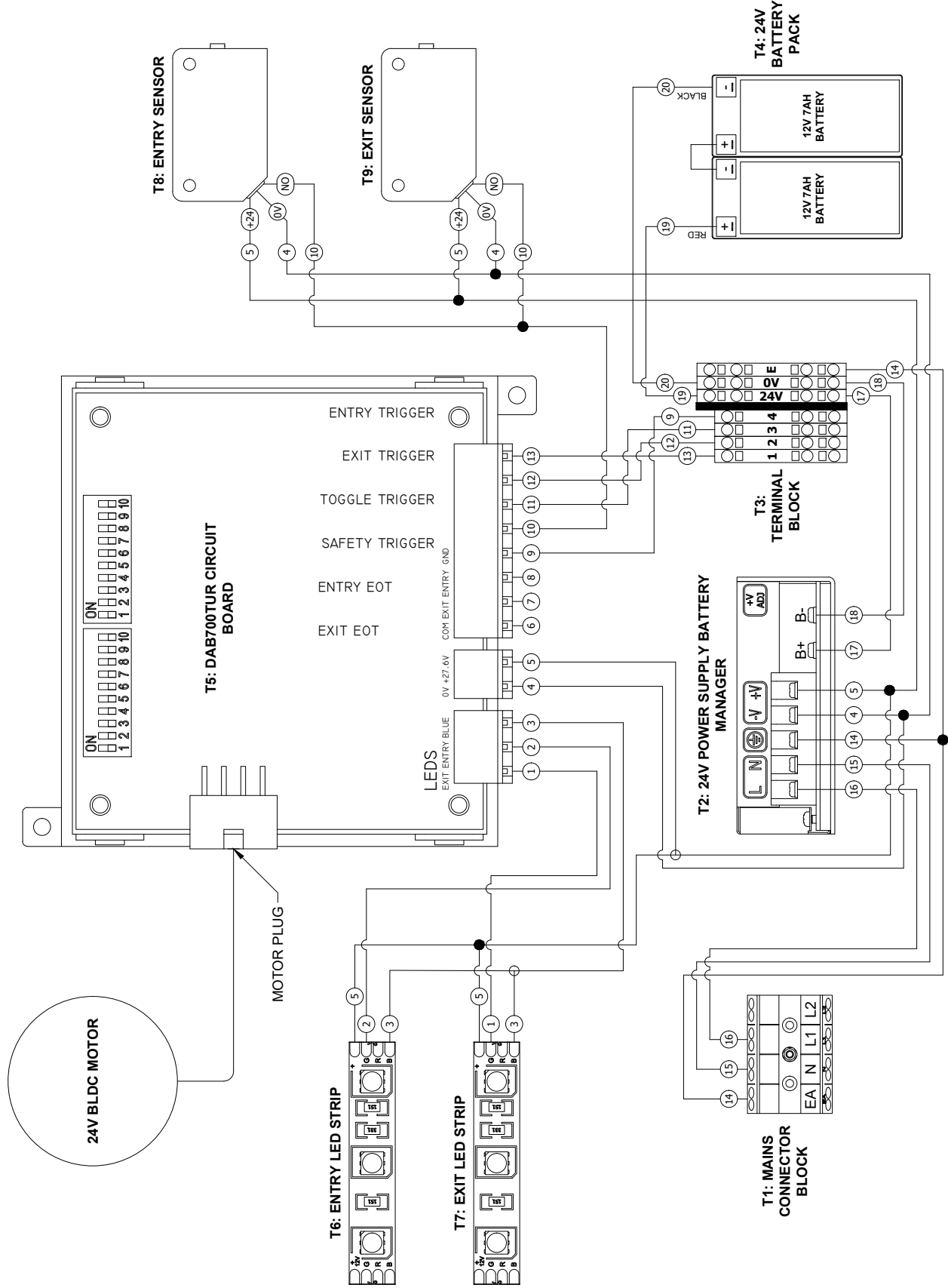
**DAB700TUR DROP BOX
 CONTROLLER WIRING
 DIAGRAM**

NUMBER:

1417-WD-01

REV:

0





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PROJECT #:

1417

PROJECT:

DYNAMIC DROP ARM

SITE:

CLIENT:

DIMENSION TOLERANCES (Unless otherwise specified):		SCALE: NTS
FROM:	TO	TOLERANCE
0	25	+ - 0.25
26	100	+ - 0.50
101	250	+ - 1.00
251	500	+ - 1.50
501	1000	+ - 2.50
1001	>	+ - 3.00

APPROVALS: PAGE SIZE: A4

Drawn: Eric Swart 22/04/2022

Checked: ----

Approved: ----

DESCRIPTION:

**PAG700V02 DROP ARM
 CLIENT CONNECTIONS**

NUMBER:

1417-WD-02

REV:

0A

