



Downunder In-Deck/Pit Motorised Roller

WARNING

FOR YOUR SAFETY – This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment in accordance with the latest applicable version of AS/NZS 3000, along with any other applicable local or council codes/standards. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation may void the warranty and may result in hazards which could cause serious injury or property damage. This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or those lacking experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.



ATTENTION INSTALLER – This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

Section 1. Care & Maintenance Guide

Your roller requires care and maintenance to achieve maximum life and to uphold the warranty. The following are recommended maintenance steps:

- 1. Do not store chemicals close to Downunder Roller, chemical spills on the lid may permanently mark.
- 2. Keep the Cogs clean and free of debris. Never apply lubricant on the Gear Drive/Cogs.
- 3. Keep the framed area around the lid free of debris.
- 4. Regularly clean out the 'pit/housing'. It is important to keep the 'pit' area free of debris that could interfere with the operation of the roller.
- 5. Rollers and lids can be cleaned down with water and a cloth.
- 6. Do not apply any additional loads beyond the specified cover load. The lid is designed to support pedestrian traffic only.
- 7. Prevent water from filling the 'pit' as it can damage the cover and water can potentially seep into the roller tube, making it heavy and difficult to operate. For motorised rollers, water filling the 'pit' will damage the motor and void the warranty.
- 8. Never force the roller if the cover is stuck under the coping. Lift the cover manually over the coping before winding it in to avoid damage to the cover, straps, gear housing, and roller handle.
- 9. With surfaces like travertine with a smooth texture, you may encounter some challenges using the roller due to suction causing the cover to 'stick' to the smooth surface. In these situations, simply lift the cover over these areas to reduce resistance.
- 10. If the roller is installed far from the pool, the cover can be harder to use due to increased drag. In these cases, lift the cover over this area to reduce resistance.
- 11. For motorised rollers, if the cover is stopping short please refer to the operation guide for resetting limits.
- 12. For motorised rollers used on a domestic pool, batteries in the remote should be changed every 12 months.

Section 2. Operation Guide

NOTE: User will identify on site that up and down arrows will change depending on orientation (left or right hand motor). In all circumstances should you feel the cover getting away from you, hit the "my" button to stop the cover.

Putting the cover on the pool

- Open the lid using the center hole in the lid and have the remote ready.
- Raise the cover from the pit using the down button on the remote. When cover is at a sufficient level out of the pit (1 meter approx.), press (middle or square button) to stop the motor.
- Pick up the haul cord and walk to the other end of the pool.
- Press the down button again and lead the cover onto the water. Do not apply excess tension on the rope the motor must be allowed to shed the cover at its

own pace. The operator is only required to pull the cover onto the pool at the same rate the motor is shedding the cover from the roller.

- The roller will automatically stop when the cover is fully deployed. If you cover stops short, refer to 'Resetting Limits' below.
- Put the haul cord on top of the end of the cover.
- Close lid.

Removing the cover from the pool

- Lift cover onto the concourse - Open the lid using the center hole in the lid and have the remote ready.
- Position yourself at the opposite end of the pool with the remote in your hand.
- Press the Up button on the remote and watch as the cover automatically retracts off the pool onto the roller.
- If you cover stops short, refer to 'Resetting Limits' below.
- Close lid.

NOTE: In cases of strong winds and inclement weather please ensure your cover is off the pool and secured on the roller.

Section 3. Tools Required

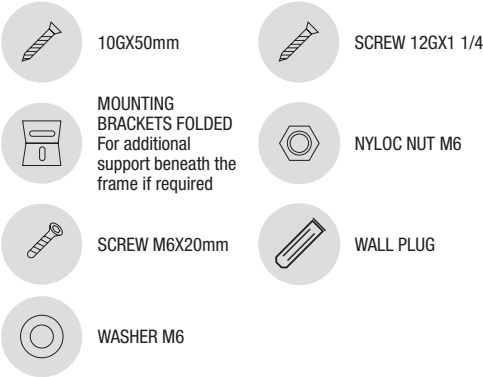
	LANDSCAPING EQUIPMENT		TAPE MEASURE
	SPIRIT LEVEL		13mm SPANNER
	HAND DRILL		5 & 6mm ALLEN KEY
	SCREWDRIVER		SUITABLE PPE PPE Should be worn while assembling/ installing product
	JUNCTION BOX, CABLE AND POTTING COMPOUND (if required)		

Section 4. Supplied Parts

	1 X IN-DECK/PIT FRAME AND LID		1 X ROLLER TUBE, MOTOR END BRACKET & 5m MOTOR CABLE
	LAZY END BRACKET		CHANNEL REMOTE AND LANYARD Remote may be inside Control Box when delivered
	CONTROL BOX		

4.1 Mounting Kit

- Downunder up to 4m (14 of each)
- Downunder 4.1m to 6m (20 of each)



Equipotential Bonding

In compliance with AS/NZS 3000:2018, if the Downunder is installed within a distance of 1,250 ('arm's reach') from the pool's edge, it is essential to engage a licensed electrician to perform equipotential bonding for the unit. It is also advisable to verify and adhere to any relevant state legislation before initiating any work in this regard.

Section 5. Calculating the Cavity Length & Placement

5.1 Location

When the DownUnder is delivered, it will have a 'Pool This Side' label to indicate the correct placement. Ideally, position the unit approximately 1m from the pool, with the

lid hinging away from the pool. This proximity minimises drag and potential damage to the cover when it is drawn over the pool's concourse. Align the long side of the Downunder perpendicular (90 degrees) to the path the pool cover will take.

NOTE: Idle Rollers are available if required.

5.2 Determining the Cavity Length

To calculate the minimum overall length of the roller mechanism, add 200mm to each end of the pool's width. For example, if the pool is 4.2m wide, the required overall length for the DownUnder installation would be 4.6m (4.2m + 200mm + 200mm = 4.6m total length).

5.3 Determining Motor Side

The motor side of the roller can be positioned at either end of the cavity.

The Control Box will need to be 3.5m from pool outside of Zones 0 and 1 (AS/NZS 3000). A waterproof Junction Box may be required to extend the supplied 5m motor cable, with extended cabling sized as per table below and run through conduit with large radius bends. Please see *Figure 1*.

Distance between Junction Box and Control Box	3m < L ≤ 15m	15m < L ≤ 25m	25m < L ≤ 40m	40m < L ≤ 60m
Cable size (mm ²)	4.6 mm ²	6 mm ²	10 mm ²	16 mm ²

NOTE: Voltage drop at full load (~15A, 24Vdc) should not exceed 2-volts

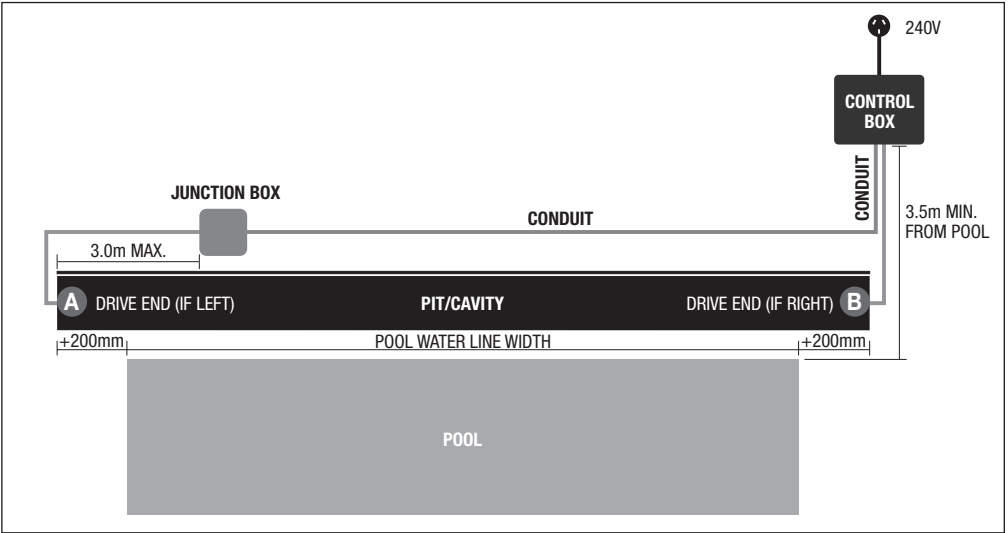


Figure 1.

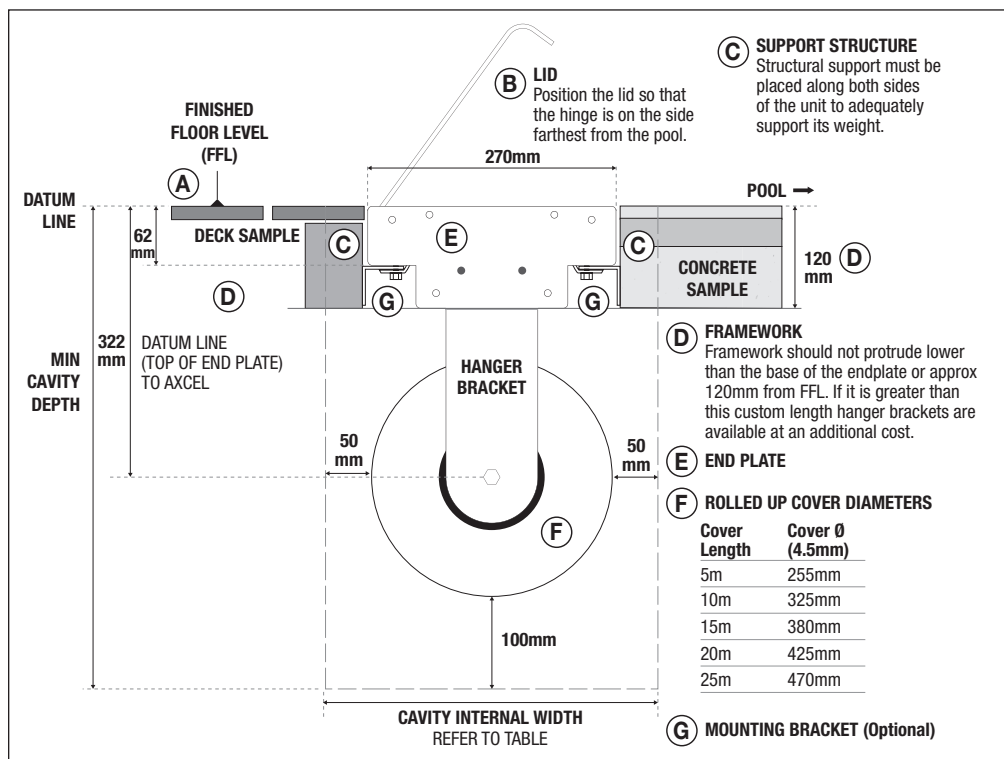
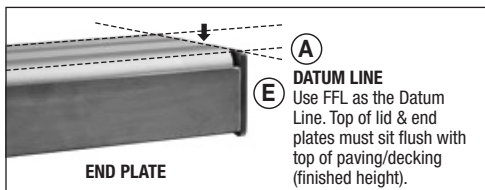
The DownUnder In-Deck/Pit model is designed for installation in either a raised timber deck or a concrete pit. To accommodate the cover mechanism, a cavity or pit must be constructed that is 50mm wider on each side and 100mm deeper than the cover unit. Mounting brackets are provided for additional support beneath the frame if required.

Finishes to the surrounding concourse (deck, concrete paving, etc.) should be completed prior to DownUnder installation. This should be used as the reference datum for the Finished Floor Level (FFL).

NOTE: It is the Installer's responsibility to identify and provide adequate pit drainage.

Cover length	Max. Cover width	Min. Cavity internal width
5m	5.5m	355m
10m	5.5m	425m
15m	5.0m	480m
20m	4.5m	525m
25m	3.5m	570m

Table 1. Maximum Cover Sizes - 4.5mm Thermal



Section 7. Downunder Lid & Roller

7.1 Preparation

- Unwrap the Downunder and layout all parts.
- Determine what side the motor needs to be on and position roller accordingly.

7.2 Removing the Lid

- Use a 6mm Hex Key to remove the lid retaining screw (A)
- Using a 13mm spanner, undo the bolt that secures the hinge bush to the end frame. (B)
- Repeat on the other end.
- Carefully lift the lid off. Be sure to keep the bush and screws in a safe place for re-installation.

7.3 Secure the fame

- Position the DownUnder Frame so the end plates sit flush with the finished floor level.

IMPORTANT

Double-check the lid opening direction and positioning before fixing to the structure.

- Utilise the pre-drilled holes provided to secure the unit in place. Fixings should be applied at intervals of every 500mm. For decking, use 10G×50mm screws, and for concrete use 12G×1¼" screws plus wall plugs.
- If using mounting brackets, bolt them to the frame using an M6 screw, washer, and nut. Then secure the mounting bracket to the support structure using the fixings mentioned above. Move on to re-installing the roller and lid steps.

IMPORTANT

- Take care not to damage the aluminium lid during installation. Concrete can burn the anodising, and acid washing can corrode the aluminium. Protect the lid during all construction and cleaning stages.
- It's crucial to remove the lid to facilitate the Downunder In-Deck/Pit installation process, as this provides access to the fixing holes in the frame.
- In most cases 2 people will be required to complete this installation.
- A rope or slings will be helpful to put around the roller during installation as the gap is tight.

7.4 Re-Installing the Roller

- Remove the 2 bolts from both ends of the frame. (C)
- Place the roller back inside the frame, ensuring the motor is on the correct side.
- Position the lazy end bracket to the frame, ensuring it aligns with the bolt holes.
- While holding it in place, use a 6mm Allen key to insert and tighten the two bolts.
- Slide the roller onto the lazy end shaft.

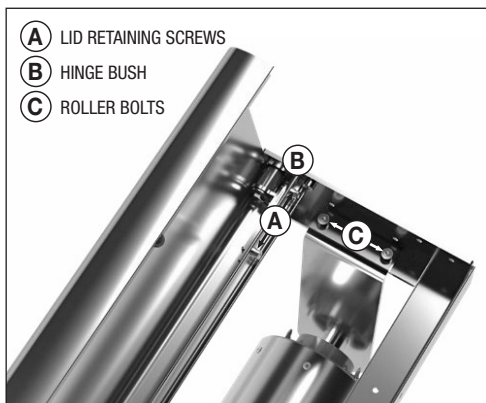
IMPORTANT

Be aware that the lazy end can easy slide out of the roller.

- Lift the motor side of the roller, and attach it the the frame using a 6mm Allen key to insert and tighten the two bolts.

7.5 Re-installing the lid

- Hold the lid in the open position and align it with the frame.
- Attach the bolt that secures the hinge bush to the end frame using a 13mm spanner. (B)
- Use a 6mm Hex Key to secure the lid retaining screw. (A)
- Repeat on the opposite end.



Section 8. Electrical Installation

8.1 Drive-End Positioning

Ensure the drive-end of the roller is located near the supplied power (conduit) and junction box (distance TBC)

8.2 Control Box Power Requirement

The 240V GPO for the control box must have a 30mA RCD. Position this GPO outside of Zones 0, 1, and 2, as defined by AS/NZS 3000:2018, ensuring it is at least 3.5 metres from the pool edge.

8.3 Mount the Control Box

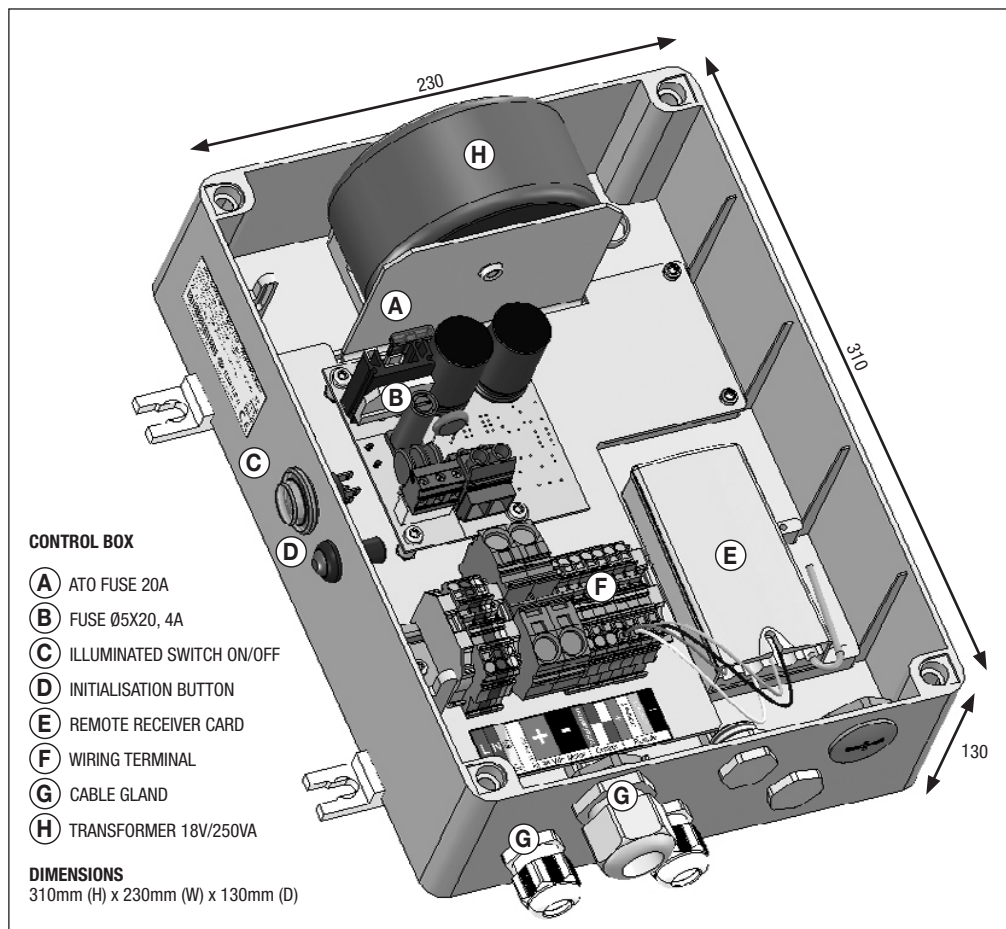
Determine the location of the control box and secure it using the internal mounting points (170mm W x 250mm H). Alternatively, use the external mounting provisions (252mm W x 168mm H) if required.

8.4 Junction Box Requirements

The installed junction box must be waterproof and include an epoxy (2-part) clear potting compound to prevent water ingress.



Roller Remote



Section 9. Electrical Installation & Testing

9.1 Run the Power Cable

Connect the attached 5 metre motor cable to the control box. The supplied cable is split into Power (4.6mm²) and Control (1.5mm²) and has a minimum bend radius of 40mm and must be threaded through conduit with large radius bends. If extension is required, use a junction box filled with potting compound, as described above.

9.2 Wire the Control Box

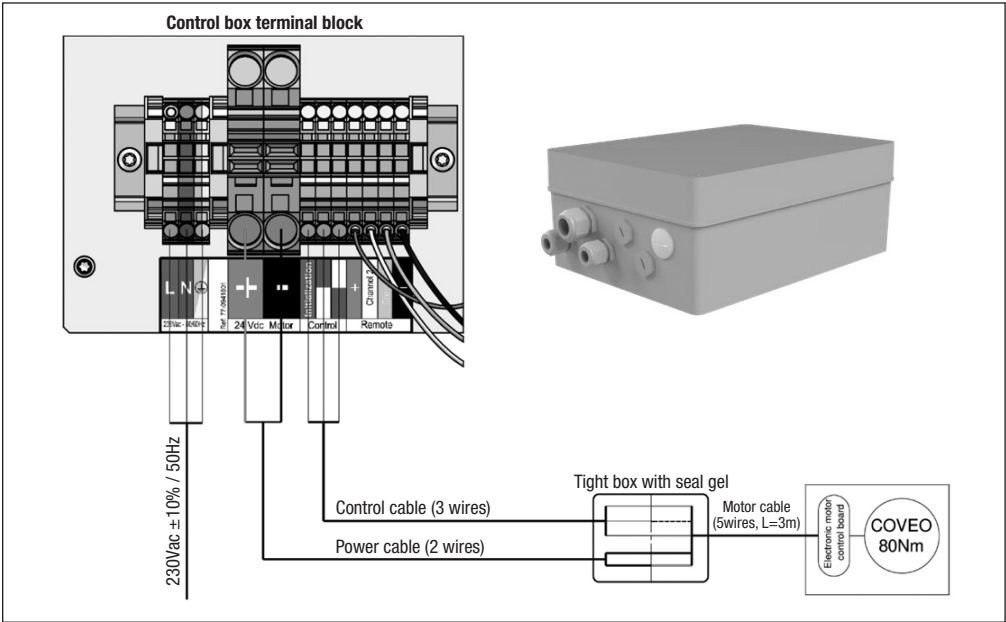
Wire the control box as shown on following page.

9.3 Powering the Control Box

Once the wiring is complete and compliant, plug the 240V power supply cable to the GPO and switch on the control box using the power switch located on the side of the control box.

9.4 Test the Unit

Press ▲ or ▼ on the remote (pre- paired from the factory) to test the unit. The motor should begin to rotate. Press ▲ or ▼ again to stop. If the roller moves in the opposite direction to expectation, swap the white and blue control wires in the control box.



Section 10. Programming
Cover Limits

10.1 Deploy the Cover

Manually deploy the pool cover over the pool and tether it to the roller using the supplied cords.

10.2 Enter Programming Mode
for 'Close Position'

Press and hold the Initialisation Button on the side of the control box for 3 to 15 seconds. This will erase any existing limits and enter programming mode for the 'Close Position.'

10.3 Adjust the Cover Limit for "Close
Position"

Stand at the far end of the pool, facing the roller. Use the remote to adjust the cover. Press ▼ to shed the cover fully onto the pool. Manually haul slack as necessary to position the cover.

10.4 Save the 'Close Position'

Once the cover is at the desired position, press and hold the Initialisation Button for 3 to 15 seconds. This will save the 'Close Position' and enter programming mode for the 'Open Position.'

10.5 Adjust the Cover for 'Open Position'

Press ▲ to roll the cover off the pool. Guide the cover as needed until it is fully inside the cavity, ensuring the leading edge is left at a conveniently retrievable distance. Visual contact must be maintained through this process and use the ▲ / ▼ button on the remote to stop the roller, should any adjustments be required or a problem occurs.

10.6 Save the 'Open Position'

Press and hold the Initialisation Button for 3 to 15 seconds to save the 'Open Position' and exit programming mode. The system will automatically switch to auto mode.

IMPORTANT

Always program the 'Close Position' first to maintain the correct sequence. Best practice is to have the cover pass over the top of the roller when being removed from the pool, not underneath the roller.

Avoid letting the cover's leading edge spin around the roller, as this will disrupt the set limits. Do not exceed 5 successive opening and closing cycles. Beyond that, there is a risk of overheating and the fuse may blow.

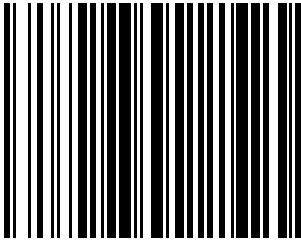


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WARRANTY REGISTRATION	Record your equipment details here for quick reference: Model No. : _____ Serial No. : _____
	AUSTRALIA WARRANTY: For full warranty terms and conditions and to register your warranty, visit www.sunbather.com.au/warranty and complete your details. ◀ Or scan the QR code to go directly to the registration page.
	NEW ZEALAND WARRANTY: For full warranty terms and conditions and to register your warranty, visit www.sunbather.com.au/warranty and complete your details. ◀ Or scan the QR code to go directly to the registration page.



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