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MOTORISED POOL COVER OPERATING & TROUBLESHOOTING MANUAL

FOR HIGH CAPACITY MOTORISED SYSTEMS
(ON A 240VAC MOTOR)





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OPERATING INSTRUCTIONS

1. Empty the swimming pool of all swimmers and ensure that the area immediately in front of the cover (deployment area) is kept clear whilst the cover is in operation.
2. If e-stop is not depressed and not emitting a light, or emitting a double flash, depress e-stop button to reset system (see Options – Automatic Shutdown and Options – Setback Mode).
3. Twist e-stop button to release and start. The blue light in the centre of the e-stop button will flash.



Operation via Remote Transmitters

Deploying Cover

1. Remove all lane ropes, fixings and where possible, steps, lifting aids etc.
2. Press out button on transmitter to start the motor, and press again to stop when cover is at hand height.





3. Untie ropes and attach lanyard to stainless steel ring.
4. Walk to the opposite end of the pool with the lanyard and remote transmitter.
5. **Ensure that no-one has entered the pool or deployment area.**
6. Press the out button to deploy the pool cover, keeping lanyard taught and ensuring cover does not drag on poolside.
7. Once fully deployed, press the out button on the transmitter again to stop the motor.
8. If the system does not have automatic shutdown or setback mode (see Options - Automatic Shutdown and Options – Setback Mode), press e-stop button to disable controls.
9. Remove and store lanyard.

Retrieving Cover

1. **Ensure that no-one has entered the pool or deployment area.**
2. Press the in button on the remote transmitter to start the system. Operator must remain on poolside.
3. Once the cover reaches hand height, press the in button on the transmitter again to stop the motor.
4. Remove and store the lanyard and tie the tow ropes.
5. Press the in button on the transmitter to re-start the motor and retract the cover fully, until the leading edge reaches the one o'clock position.
6. If the system does not have automatic shutdown or setback mode (see Options - Automatic Shutdown and Options – Setback Mode), depress e-stop button to disable controls.



Operation via Control Station

Deploying Cover

Note: Deploying the cover using the Control Station requires 2 operators. Operators must remain poolside during use of the system.

1. Remove all lane ropes, fixings and where possible, steps, lifting aids etc.
2. Hold selector switch to the cover in position until e-stop blue light is constantly lit.
3. Turn the selector switch to the cover out position momentarily to start the motor. Operators must remain on poolside.
4. Once cover reaches hand height, turn the selector switch to the cover out position momentarily again to stop the motor.
5. Untie ropes and attach lanyard to stainless steel ring
6. Ensure that no-one has entered the pool or deployment area.
7. Position one operator at the operator control station, while the other operator walks to the opposite end of the pool with the lanyard.
8. Turn the selector switch momentarily to the cover out position to deploy the cover. The operator at the opposite end of the pool to keep the lanyard taught and ensuring the cover does not drag on poolside. Operator at control station to remain at control station in the event the motor needs to be stopped.
9. Once fully deployed, turn the selector switch to the cover out position to stop the motor.
10. If the system does not have automatic shutdown or setback mode (see Options - Automatic Shutdown and Options – Setback Mode), depress e-stop button to disable controls.

Retrieving Cover

1. **Ensure that no-one has entered the pool or deployment area.**
2. Hold selector switch to the cover in position until e-stop blue light is constantly lit.



3. Momentarily turn the selector switch to the cover in position to start the motor. Operator to remain on poolside.
4. Once the cover reaches hand height, momentarily turn the selector switch to the cover in position to stop the motor.
5. Remove and store the lanyard and tie the tow ropes.
6. Momentarily turn the selector switch to the cover in position to re-start the motor and retract the cover fully, until the leading edge reaches the one o'clock position. Momentarily turn the selector switch to the cover in position to stop the motor once at this position.
7. If the system does not have automatic shutdown or setback mode (see Options - Automatic Shutdown and Options – Setback Mode), depress e-stop button to disable controls.

OPTIONS

Automatic Shutdown

If activated, the unit will shut down after a fixed period of time. To restart the system, depress e-stop button and twist to reset.

Setback Mode

If activated, the unit will monitor the cover while it is operating in an outwards direction for a fixed period of time. Once triggered, the system will prepare to enter setback mode for monitoring energy optimisation purposes. Once the shutdown timer expires, the setback relay will change state and the blue light on the e-stop will generate a series of double flashes. To restart the system, depress e-stop button and twist to reset.

REMOTE TRANSMITTERS

If the remote transmitter stops operating, this can be for a number of reasons. If the transmitter has come into contact with water, or if there is evidence of corrosion on the transmitter board, we can supply replacements. If there is no evidence of corrosion, we would recommend attempting to replace the battery before replacing the transmitter.

While remote transmitters are pre-programmed to the system during the system installation and tested during commissioning, replacement transmitters will need to be coded into the system to operate.

Coding replacement transmitters

1. Remove lid of operation control station to access PCB mounted on rear of lid
2. Press switch S1, and LED D1 will illuminate
3. Press button on transmitter, LED D1 will extinguish
4. Press button on transmitter again, LED D1 will flash. Once LED stops flashing wait 30 seconds. Transmitter is now programmed for use.





EXTENDING THE LIFE OF YOUR POOL COVER

1. Always remove lane ropes, as the ropes attached to the cover will inevitably become caught and will result in eyelet damage.
2. If a cover has been manufactured for use with removable steps, these must be removed each time the cover is used. Failure to do so will result in premature creasing and possible tearing of the cover.
3. Ensure that the ropes attached to the leading edge are untied/of an equal length. Failure to do so will result in eyelet damage.
4. Never allow a cover to touch the floor during deployment, as this will cause wear and require additional effort from the operator. If this becomes difficult, contact us about our removable guide rail system.
5. Always remove guide rails before retrieving a pool cover.
6. Inform us as soon as damage has occurred, as many repairs can be carried out on site.
7. We recommend that the structural integrity and operation of the pool cover system is checked on an annual basis



TROUBLESHOOTING

Cover fails to rotate – E-stop not flashing and released

If Automatic Shutdown is enabled (see Options – Automatic Shutdown), the system may need to be reset. To restart the system, depress the e-stop button to reset and twist to release and start the system.

If Automatic Shutdown has not been set, check whether mains voltage is available at the distribution board or point of supply. There may be additional protective devices along the circuit before the system, for example an RCD protected socket / isolator. If additional protective devices are present, check they have not tripped.

If the problem still exists after these checks, contact Forge Leisure (UK) Ltd on 01670 522 022 for further assistance.

Cover fails to rotate – E-stop flashing and released

If the e-stop is displaying a double flash, the system is in setback mode and needs reset (see Options – Setback Mode). Depress e-stop button to reset system, and twist to release and start system.

If the e-stop is displaying a single flash, depress e-stop to reset system, wait 5 minutes to allow the inverter to de-energise and reset, then twist to release and start the system.

If the problem still exists, locate the system control box. This is an ABS enclosure generally located next to the motor on the system, hidden beneath the system GRP enclosures. Once located, check the side of the enclosure for the trip switch and reset switch if it is in the off position. This is a 16-amp thermal breaker and will trip under a fault condition.





If all appears ok, contact Forge Leisure on 01670 522022 for further assistance.



MANUAL REMOVAL OF A POOL COVER

In the event that the system will not retrieve a pool cover, two able bodied people can manually remove the cover from the water.

1. One person stands at either side of the cover at pool edge and firmly grab each edge of the cover.
2. Walk backwards by approximately one metre taking the cover with you, so that it either lays on to the connecting straps or the remaining cover.
3. Repeat this process until all of the cover is removed from the pool.
4. Wherever possible, do not cut the cover / connecting tapes or place the leading edge of the cover on the bottom of the pile.
5. Contact us on 01670 522022, stating that the system has failed with the cover off the roller.