Wireless Controller (EP1 or EP2) 60Hz
Power Unit Not Turning On

*** Troubleshooting stops when remote turns power unit on***
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- Thermal Distribution Pad/Heat Sink
- Antenna Connections
- Upper LED
- Lower LED
- Contactor Override
- Contactor Line Side
- Learn Button
- JP2
- JP1
- Receiver
- Coil Connection A1
- Coil Connection A2
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Is GFI breaker tripped? (cycle breaker fully off then on again)

Does GFI breaker tripped?
Y → Verify wiring of entire controller using schematic on controller
Does breaker continue to trip?
N → Verify wiring of breaker;
Neutral pigtail to neutral buss bar in panel
Both hot wires connected to breaker load
No neutral load on breaker (unless poolside WQS is being used and neutral connects to neutral terminal in Gecko heater/controller)
Does breaker continue to trip?
N → Replace breaker

Does pressing any button on transmitter cause the upper red LED on receiver to blink?
N → Does the light on the transmitter blink when pressing any button?
Y → For ideal responsiveness, distance from transmitter to antenna should be no more than 25'.
Does the system work at a closer range?
N → Check tightness of antenna connections (coaxial, spade and grounding ring)
AND
If more than 25' from antenna to transmitter, consider relocating antenna closer to pool.
Ensure there are no metal obstructions to block the signal between antenna and transmitter.
Ensure there are no other wireless devices interfering with the signal (such as a wireless pet fence)
N → Change battery (CR2032) or try a different transmitter

Verify wiring of breaker;
Neutral pigtail to neutral buss bar in panel
Both hot wires connected to breaker load
No neutral load on breaker (unless poolside WQS is being used and neutral connects to neutral terminal in Gecko heater/controller)
Does breaker continue to trip?
Y → Replace breaker
N → N

Does the system work at a closer range?
Y → Remove antenna from coaxial extension and place antenna directly on controller.
Does unit work now?
N → Was coaxial cable extension used to move antenna closer to pool?
Y → Clear receiver and reprogram transmitters (see instructions on last page of this flowchart)
N → N
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- Replace coaxial cable

- Replace receiver and reprogram remotes (see instructions on last page of this flowchart)

If still no current, verify wiring of entire controller using diagram on controller lid.
AND

Check incoming power to controller;
Does Line 1 to ground = 110V?
Does Line 2 to ground = 110V?
Does Line 1 to Line 2 = 220V?

- Check wires and connections in wiring box on motor for tightness
- Does Line 1 to ground = 110V?
- Does Line 2 to ground = 110V?
- Does Line 1 to Line 2 = 220V?

- Faulty wire connection or breaker on line side. Have electrician check.
- Replace overload switch
- Replace motor

- Reset overload. Discuss ventilation with CS representative.
- Replace receiver and reprogram remotes (see instructions on last page of this flowchart)

- Does reset/overload have power out to motor?
  - Does load side of reset/overload terminal to ground = 110V?

- Receiver is overheating.
  - Check thermal distribution pad above heat sink.

- EP2 only: verify PRV (grey) and float level (black) connectors are not reversed.

- Replace receiver and reprogram remotes (see instructions on last page of this flowchart)

- Faulty wire connection or breaker on line side OR contactor no longer closed. Have electrician check.

- Replace overload switch

- Replace motor
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1. Does the unit run when the contactor override is depressed?  
   - Yes → Verify input voltage to contactor:
   - Does Line 1 to ground = 110V?  
   - Does Line 2 to ground = 110V?  
   - Does Line 1 to Line 2 = 220V?  
   - No → Faulty wire connection or breaker on line side. Have electrician check.

2. Has the reservoir been filled with hydraulic fluid (within 2" of reservoir top)?  
   - Yes → Fill reservoir to within 2" of top  
     NOTE: turn off breaker prior to filling  
   - No → Test the float switch for continuity by measuring between the (2) parallel spades. Ensure that the spade connections on float switch are not broken or bent over. Is there continuity on the float level switch?  
     - Yes → Shim up power unit under opposite corner from float switch to push more fluid towards float switch location. If still no continuity, then remove float switch and test:  
       1. Remove black square cord end from switch  
       2. Place wrench on the large brass colored collar of float switch  
       3. Float must be in "up" position to test  
      - No → Fill reservoir to within 2" of top  
        NOTE: turn off breaker prior to filling  
   
3. Was reservoir topped off after the initial running of the power unit?  
   - Yes → Fill reservoir to within 2" of top  
     NOTE: turn off breaker prior to filling  
   - No → Test the float switch for continuity by measuring between the (2) parallel spades. Ensure that the spade connections on float switch are not broken or bent over. Is there continuity on the float level switch?  
     - Yes → Shim up power unit under opposite corner from float switch to push more fluid towards float switch location. If still no continuity, then remove float switch and test:  
       1. Remove black square cord end from switch  
       2. Place wrench on the large brass colored collar of float switch  
       3. Float must be in "up" position to test  
      - No → Fill reservoir to within 2" of top  
        NOTE: turn off breaker prior to filling  

4. Verify wiring of entire controller using schematic on controller.
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- Turn off breaker and move white wire to float switch from Terminal JP2 to Terminal JP1 on the receiver. Turn breaker back on. Does unit turn on?
  - Y: Replace receiver and reprogram remotes (see instructions on last page of this flowchart)
  - N: Verify input voltage to contactor;
    - Does Line 1 to ground = 110V?
    - Does Line 2 to ground = 110V?
    - Does Line 1 to Line 2 = 220V?
      - N: Faulty wire connection or breaker on line side. Have electrician check.
      - Y: Verify wiring of entire controller using schematic on controller
        - N: Verify voltage to and from float level switch cord. Replace receiver, float switch or float switch cord as needed.
        - Y: Is there 220V between A1 and A2 on contactor? (coil connections on load side of contactor)
          - Y: Replace contactor
          - N: Verify wiring of entire controller using schematic on controller
            - N: Verify voltage to and from float level switch cord. Replace receiver, float switch or float switch cord as needed.
**Clearing receiver / programming transmitter instructions**

Clear the memory by pressing and holding the LEARN button until the upper LED turns on a solid red and then turns off (this may take up to 30 seconds)

Once the memory is cleared, reprogram ALL the transmitters one at a time using the following steps:
- press and hold the LEARN button until the upper LED is a solid and steady red (this may take up to 10 seconds)
- release the LEARN button
- press and hold any one of the buttons on a transmitter
The transmitter is successfully programmed when the LED turns off momentarily and then flashes in response to the held button