



# MS3D MULTI SOLAR CONTROLLER

# INSTALLATION: INCLUDED



Solar Controller



Pool Sensor



Roof Sensor



Mounting kit and template

# INSTALLATION: REQUIRED

6mm Masonry drill bit  
(required for raw plugs)



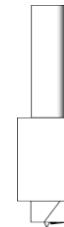
P-2 Phillips head  
screw Driver



Silicone



Drill with hammer action



1/2" or 12.5mm Drill bit  
Or cutting Tool (ms-Drill)

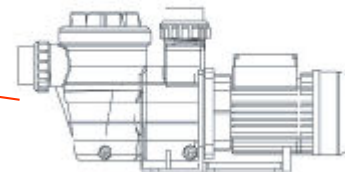
# INSTALLATION: DO'S



3.5m



1.5m



Unit **must** be 3.5m from pool zone  
Less than 1.5m from the pump



Unit **must** be mounted using screws provided.



1m

Unit **must** be installed in the upright  
position 1 metre from the ground



# INSTALLATION: DO NOT'S!



Do not immerse.  
Do not place unit upside down.

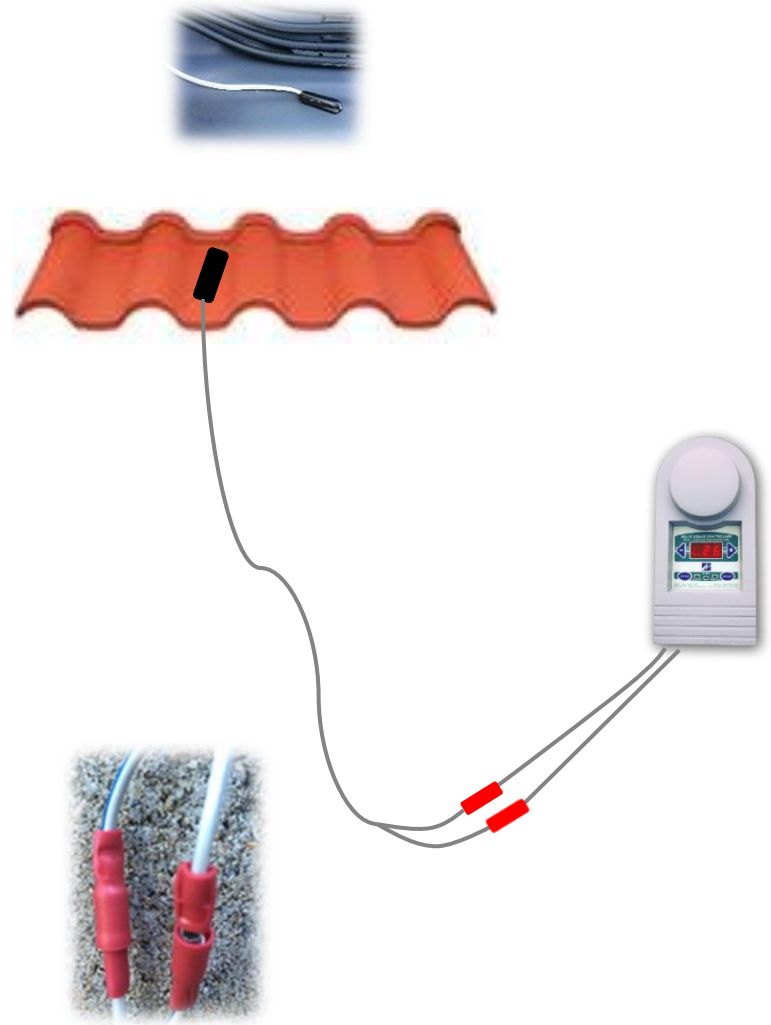


Do not place within direct splashing  
or spray from the pool.

# INSTALLATION: ROOF SENSOR

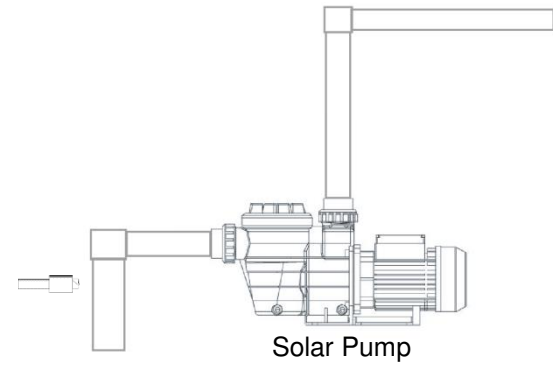
☀ Place the roof sensor on the roof and attach with silicone

☀ Plug sensor cable into the unit using the red connectors



# INSTALLATION: POOL SENSOR

- ☀ Using the 12.5mm drill bit, drill a hole into the suction line of the solar pump.
- ☀ Put the grommet in first, then push in the pool sensor.
- ☀ Attach the cables to the unit using the red connectors.



# INSTALLATION:

For a 'stand alone' system

☀ Plug controller piggy back into GPO if a stand alone system.



☀ Plug the solar pump into the base of solar controller





# INSTALLATION:

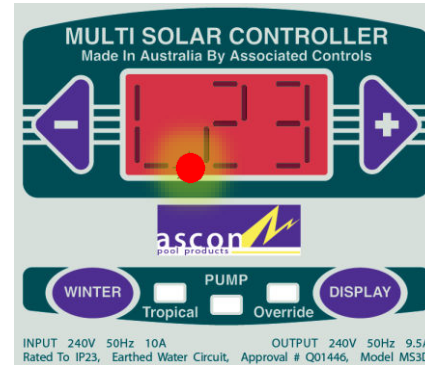
For an 'integrated' system

- ☀ Plug the chlorinator into the power point
- ☀ Plug the solar controller grey piggy back into the chlorinator.
- ☀ Plug the filter pump into the grey piggy back
- ☀ Plug the solar pump into the solar controller



# OPERATION: START UP


- ☀ When the unit is turned on, there will be a period of 2 mins while the MS3D and the solar pump synchronise (indicated by flashing light).

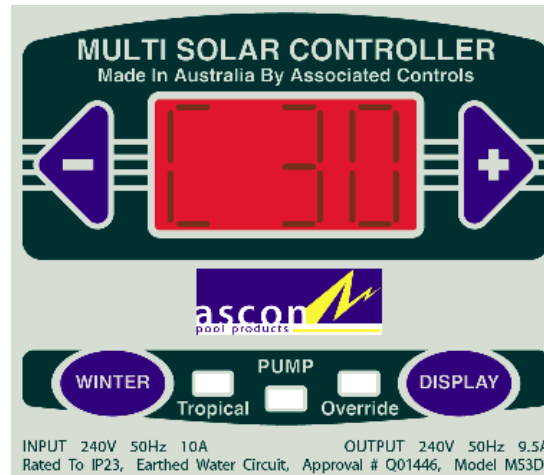



- ☀ After 2 mins the unit will run for at least 6 mins to reset the pool temperature sensor.


# OPERATION: COMFORT TEMP ADJUSTMENT

The comfort temperature is the temperature the user wants their pool to be.

Press  button to decrease to minimum 20°C by 1°C increments.





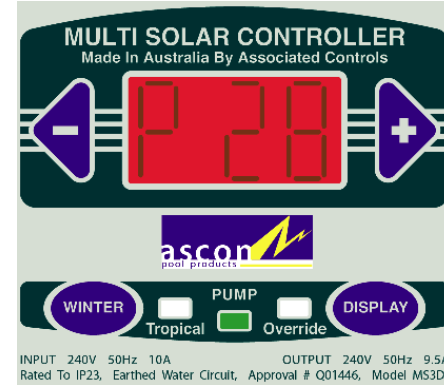
Press  button to increase to maximum 40°C by 1°C increments.

 When the comfort temperature is set, this temperature will be stored, even when the unit is turned off.

# OPERATION: DISPLAY MODE


The display mode allows the user to check each mode setting without accessing or changing the current settings.

 To read roof, pool and comfort temperature settings, press 



The unit will show:

 for roof


 for pool


 for last

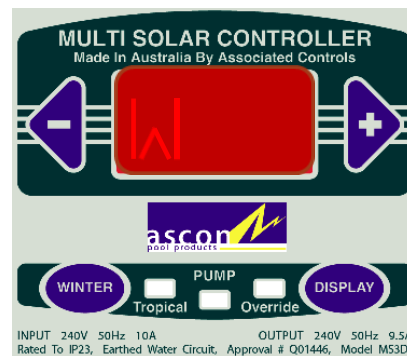
 for comfort

# OPERATION: WINTER MODE

Winter mode allows the users solar system to function during cooler months.  
This extends the life of the solar heating system.

☀ At the end of the season  
press  for winter mode.

☀ At the start of the season  
press  for normal operation.

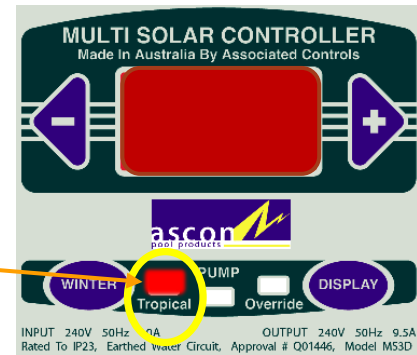


# OPERATION: TROPICAL MODE

Tropical mode can be used to cool the users pool at night during very hot weather.



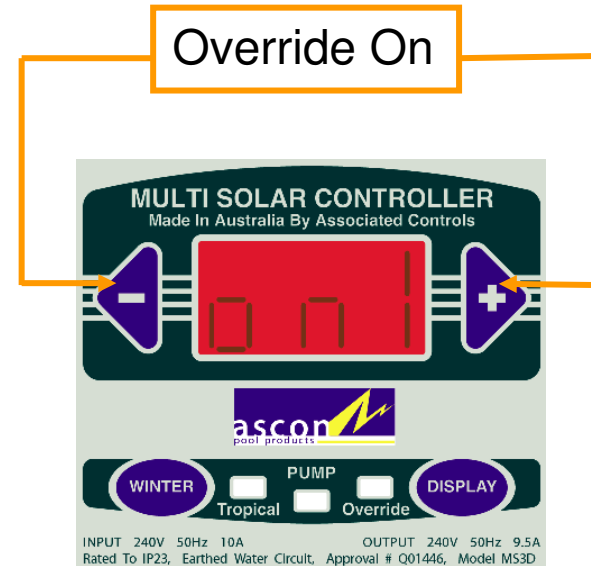
Press **WINTER** and **DISPLAY** together.  
When the Tropical LED is red,  
the Tropical mode is on.



# OPERATION: OVERRIDE





What does override do?

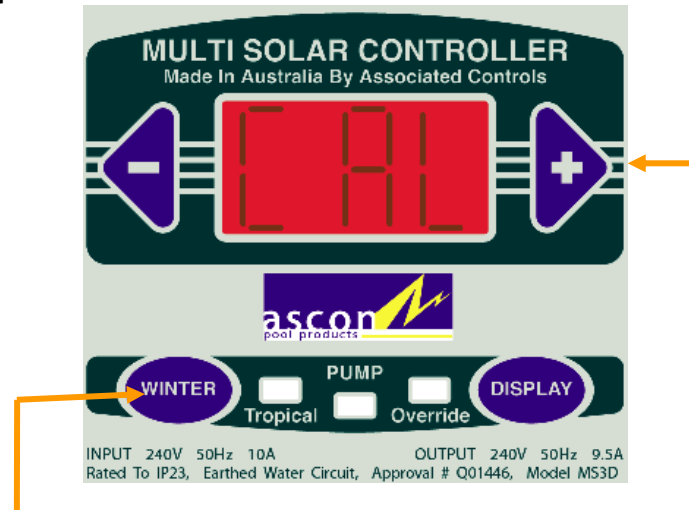
- ☀ To select a 1 hour override, Press ◀ and ▶ at the same time.
- ☀ To select a 4 hour override on, press and hold the ◀ and ▶ at the same time for 5 seconds.
- ☀ Press both buttons again to cancel the operation.



# OPERATION: CALIBRATION

To calibrate the unit....






- ☀ Press  and  to calibrate the pool sensor  
Display reads CAL then +00 .
- ☀ Press the  or  to offset the temperature.

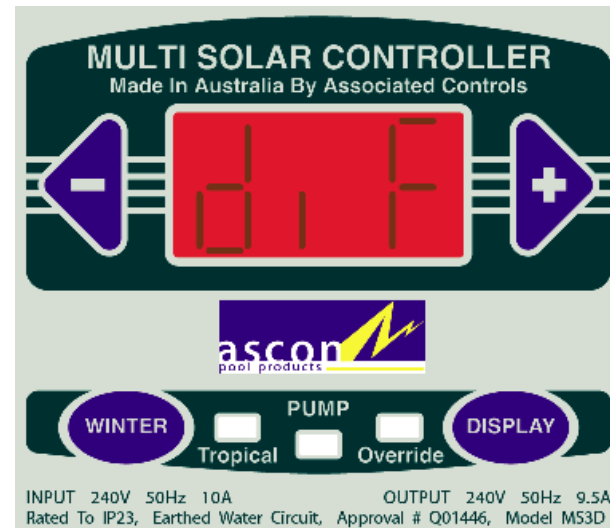





# OPERATION: DIFFERENTIAL

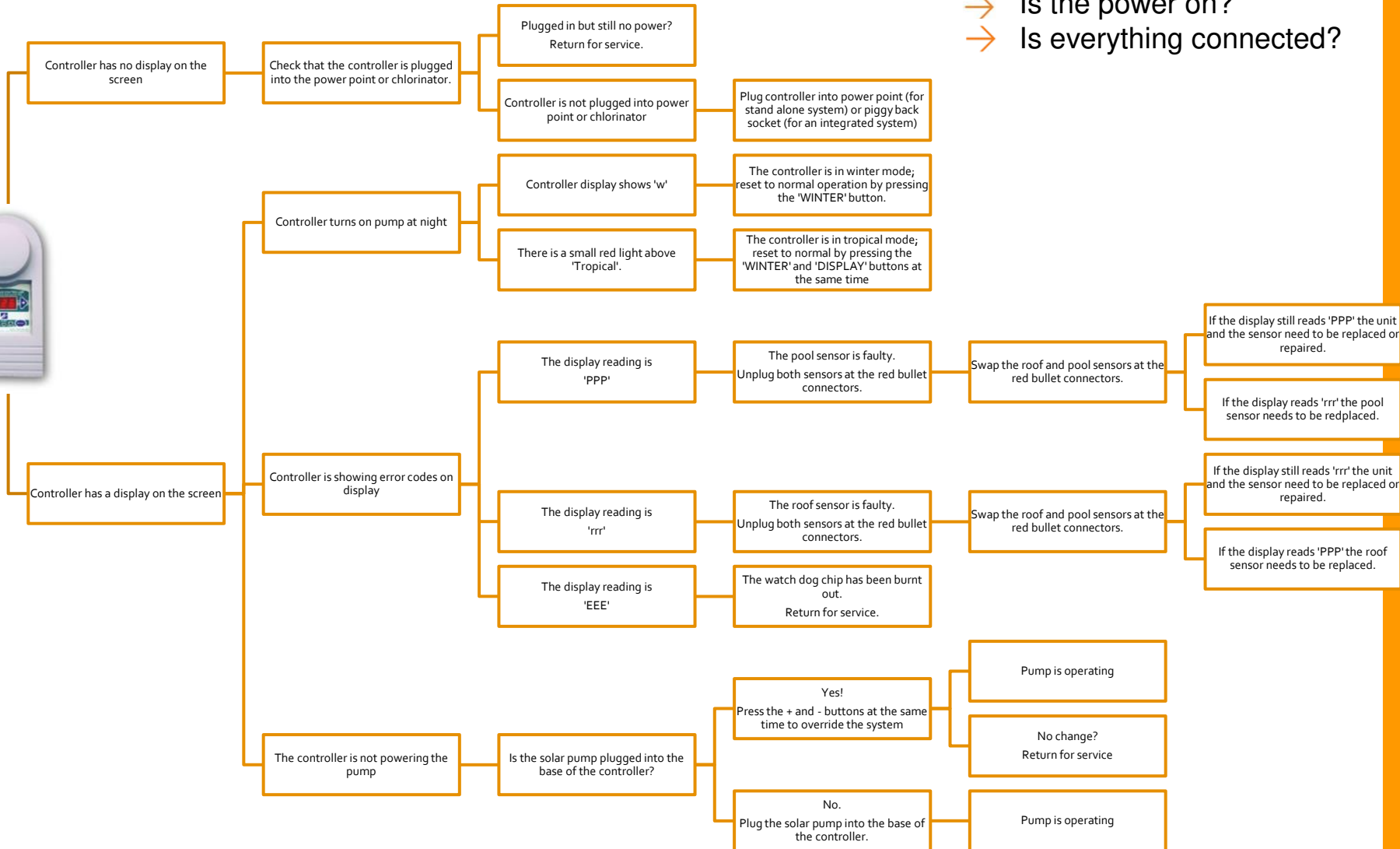
The differential temperature is the amount of degrees between the roof and pool temperature.

- ☀ The differential in temperature can be changed by pressing  and  at the same time. The display reads  then 06 press the  or  to increase or decrease.



# TROUBLE SHOOTING GUIDE

 First check the obvious:  
 → Is the power on?  
 → Is everything connected?



For further information, please refer to the  
Installation Guide and Instruction Manual



[www.asconpool.com.au](http://www.asconpool.com.au)