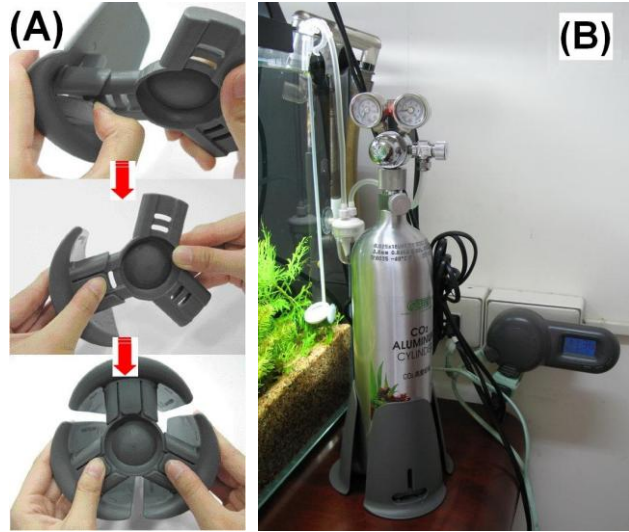


INSTALLATION INSTRUCTIONS:

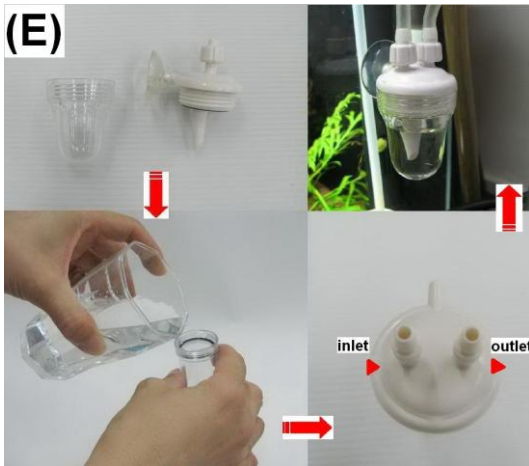
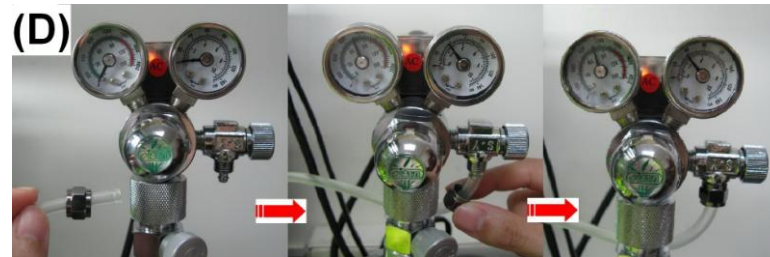
- 1.) To assemble the supporting base as illustrated (A), hold down plastic hook and attach it to either of the two openings. The diameter of CO2 cylinder will determine which opening is best suited. Place the CO2 cylinder in the support as illustrated. (B) To protect cylinder from tipping over and damaging the controller.



- 2.) Before installing the controller w/solenoid, make sure on/off valve of the cylinder and the controller are off (closed). Thread the controller to the cylinder and HAND tighten it only. (C)

- 3.) Cut the CO2 hose to your required length and connect it to the controller, check valve & bubble counter, and diffuser as illustrated (B).

- 4.) To connect the CO2 hose to the controller as illustrated (D), unscrew the nut, the CO2 hose connects through the nut. Then screw the nut back to the controller, which will prevent the hose from loosening from the controller.



- 5.) Open the bubble counter & check valve, fill it up with water and then close it (Hand tighten). Make sure the check valve is connected in the right direction. Follow the triangle on the check valve to find the inlet and outlet connection. Push the hose all the way to the end of the fittings. Turn the fastening node clockwise and hand tighten to secure the tubes to prevent CO2 from bursting out. (E)

INSTALLATION INSTRUCTIONS (cont.)



6.) Connect the ceramic diffuser as illustrated **(F)**. Place the diffuser inside the aquarium. (Maximum CO₂ diffusion is achieved by placing CO₂ diffuser at the bottom of the aquarium). It is common to see bubble clogging around the diffuser during the initial use. After 24 hours, this will disappear.

- 7) After all the components are installed as illustrated **(B)**, plug in the solenoid (flash indicated when operation) then turn on the on/off valve (keep it on), slowly open the controller w/solenoid until you see the bubbles released from bubble counter. Adjust the bubble rate as required. The initial recommendation is 1 bubble per second.



Tips:

- To automatic control the CO₂ dosing via plug in the solenoid with timer. Purchase ISTA timer which provides two individual timing setting. Plug in one for the solenoid and another for the lighting. Set up the timing of solenoid one hour earlier than the lighting, (The photosynthesis occurs immediately during this period) Thus, saves CO₂ and makes the photosynthesis more efficient. **(H)**



Caution:

- Aluminum CO₂ cylinder is refillable; please consult a CO₂ refilling station. (Do not refill it yourself).
- How to take off the solenoid from the CO₂ cylinder?
Turn off the on/off valve of the CO₂ cylinder and release the remaining CO₂ by open the controller, then hand loosening the controller from CO₂ cylinder. (Do not use any tools).

NOTE: WHEN REFILLING CYLINDER, GASKET (included) MUST BE USED BY PLACING IT OVER THE CYLINDER VALVE!