

Tecma Toilet Training

About the Toilet's:

- All China, Electric, Macerating pump toilet.
- Tecma's are primarily seen in the marine market but are now being installed more in RV's. We are also adding more options for RVers.
 - RV Tecma's- Silence, Silence Plus, Easy Fit, E-Breeze (24 volts only)
 - Marine Tecma's- Silence, Silence Plus/ (2G) and (110 volt), Easy Fit, X-Light, Privilege, Evolution, Breeze, E-Breeze, Saninautico, Elegance, Elegance Cut, Nano, Compass Short.
- Options for these toilets (depending on model) come in: High Profile, Low Profile, Cut, 12 volt, 24 volt, Integrated Bidet, Soft Closing Lid, Wide range of Control Panels and Colors: White, Bone and Black.
 - Cut- meant to be installed against the haul of a boat, angled back.
 - Integrated Bidet- cannot be added to a non-bidet toilet.
 - Tecma seat and covers- are not interchangeable
 - 24 volt- not typically seen in RVs
 - Control Panels- typically RV models will have the soft bezel wall switch and Marine models will come with the Analog- hard gray switches, both have single and double button options.
 - Silence Plus now comes in 110 volt AC version- these are usually installed in large house boats that are primarily stationary.
- Tecma Macerator pumps are rated to pump: 30ft vertically and 290ft horizontally.
- All Tecma's come with Tank Sensors. Some only have Full Tank sensors while others have both Mid and Full sensors.
- Wiring: Main power line- Red and Black, Water Solenoid- Blue and Black, Macerator- Brown and Black.
- Older marine models will have the old CEME valves while all new models will have the new Invensys Solenoid valve. The CEME valves are still in production but whenever possible, replace with the new valve- They will come with the shunts needed to connect the old valve plumbing to the new one.
 - If the consumer is missing the shunt, we have replacements we can send out without replacing the whole valve.

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- Serial numbers can be found on the inner/ back side of the toilet. When standing behind the toilet, it is on the upper left side.

How to Use a Tecma:

- Most Tecma wall switches will have a large flush and small flush button or a Flush button and an Add Water button.
 - Large flush is for waste and toilet paper. Small flush is for water saver or liquid waste.
- Wall Switch also has a "Lock" in lower left corner and the tank sensor light indicator in the lower right corner.
 - Tank sensor light will change from green to red when full and some will change to yellow when half full.
 - When locked out due to a full tank, you can hold the flush button for 8 seconds for a single flush override.
 - You can push both buttons twice to enter and exit lock out mode.

Trouble Shooting Tecma's/ Common issues:

- ***Bowl won't hold water:***
 - This issue occurs most often in RV's and RV's with multiple toilets due to the RV being driven.
 - We are now including Air Admittance valves with new Tecma purchases to help stop this issue.
 - Most often, the cause is Siphoning from a sagging "J" tube. If not, it is a venting issue.
 - To fix the problem, you can zip tie the top of the "J" tube to the nozzle or you can add a clamp around the mid-point of the discharge holes to prevent it from pulling down into the dumping hold in the floor.
- ***Tank Sensors always reading red even when tank is empty.***
 - Possible causes: Bad Tank Sensors, Obstruction on the inside of the tank.
 - To test the sensors, you will want to remove them from the tank and hold them in the air away from any obstructions. (Also be sure that sensor wiring is okay and sensors are plugged in.)

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- If the light goes green, you have either waste, such as toilet paper on the inside of the tank or a waste residue build up which can be cleaned up with our "Level Gauge Cleaner".
- If light stays red, you will need to replace the tank sensors.
- *If a consumer does not want to use their sensors or go the extra length to test them you can do the following. (Note: tank sensors have to be connected for the toilet to operate.)
 - You can take your tank sensors and add Styrofoam blocks to both sides of the sensors, then wrap it in plastic wrap. This will make the sensors always read green on your wall switch.
- ***Won't Add Water***
 - First check voltage going to the toilet, if good, then check voltage going to your solenoid valve- must be 11 volts or higher to operate.
 - If voltage is good, bad solenoid valve.
 - No voltage or low voltage is a bad controller.
- ***Won't fill to desired level***
 - *Analog controllers- First check your water level by turning the white knob on the back of your controller/wall switch.
 - *RV Controllers- You can set the water level by holding both buttons first to empty the toilet, then holding both buttons again until the LED's flash and water starts to enter the bowl. Once the water gets to the desired level, release. Push any button to enter into the regular flush mode.
 - If water still won't rise to desired level, add a large pitcher of water to the bowl and see if the level maintains.
 - If water stays in the bowl, you either have low water pressure or something obstructing the water flow.
 - If not, this may actually be a siphoning issue.
- ***Toilet will add water but won't evacuate***
 - First you will want to check your voltage going to the toilet and from the controller to your macerator pump. If voltage is good, you either have a bad macerator pump or a clog.

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- To clean a clog in the pump, you will need to remove the 6 screws holding the pump cover on and remove anything stuck in the blades or the flapper valve.
- **Waste/ Water is coming back into my bowl**
 - For this issue, you either have a clog in your pump or a bad flapper valve in your discharge pipe.
 - You will want to start by checking you're the flapper valve at the end of your discharge hose, then the valve at the top of the hose at your macerator pump connection.
 - If either valve needs to be replaced, you can now install our new "*Double Billed Duck Valve*" instead of replacing the macerator pump or the entire discharge pipe.
 - If the check valves look good, remove the pump cover and clean out clog.
- **Smell/ Odor coming from toilet**
 - Odor could come from the discharge pipes or from a venting issue.
 - Smells from the waste can permeate into the plastic of the discharge pipes causing the smell. Solution: replace the pipes.

Fuse keeps blowing everytime the toilet is flushed.

- Make sure to use a 30 Amp Fuse
- If fuse is correct, then it's either a clog in the pump or a bad pump.



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