

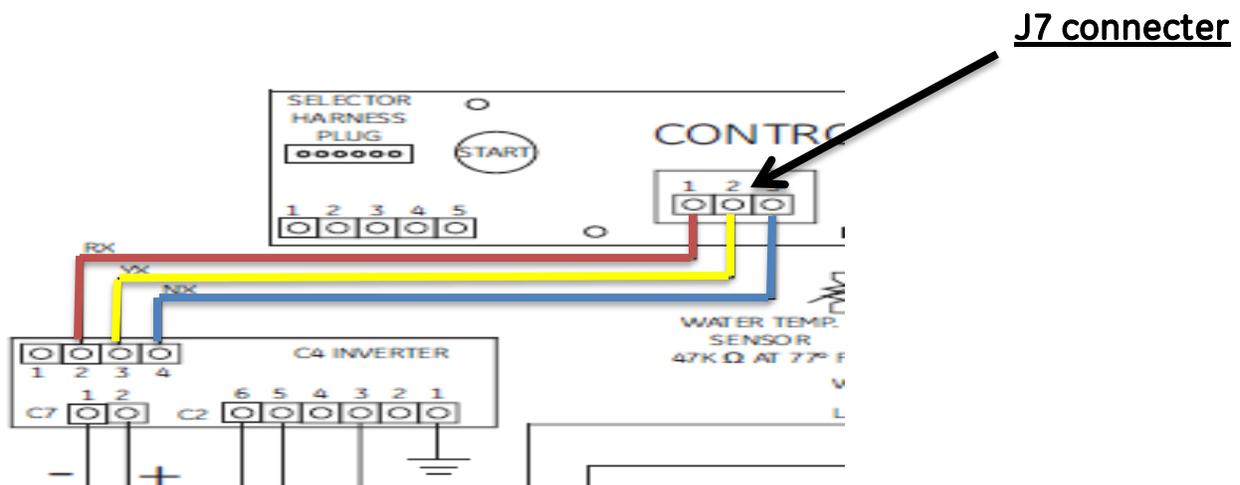
Tag Training Tip

March 2011

Diagnosing Serial Communication Hydrowave washers

GTWN4250MWW GTWN4950LWS, GTWN5050MWS,
GLWN5050MWS, GRWN5050MWS, PTWN6050MWT,
PTWN6250MWT

The communication voltages are sent from the control board to the motor. The steady and pulsing voltages can be checked from the control board at the J7 connector. What you should see from the control board is approximately 12.8VDC steady from RED to BLUE. The BLUE wire is DC ground. The pulsing communication voltage can be seen from the RED and YELLOW wires. This is not a steady voltage. If you do not have these voltages, replace the control board. If you have the steady and pulsing voltages at the J7 connector at the control, disconnect and check the wire connector at the motor for the same voltages found and the control board. If the voltages are present there, replace the motor.



If the serial communication is lost from the board to the motor on the above models, here are some symptoms to look for. **If communication is lost during the first fill**, the basket will be motionless; the fill light will be flashing on the backsplash and an audible 2 beeps every 20 seconds. These can also occur from a lid switch being open. The way to determine which of these has occurred is to look at the motor light. A ten flash error on the motor will be for the communication being lost. A steady flash ½ second on, ½ second off with this happening will indicate that the lid switch is open. Not to be confused with the 7 flash error of the lid switch not being opened.

If communication is lost during the main wash cycle, the mode shifter will change from the agitate mode and then sit with no movement. Same goes for the spin cycle. However on the motor, a 10 flash error code will be present. If communication is restored, the cycle will continue where it left off.

Some other characteristics of these models are as follows:

If the pressure switch does not close after approximately 5 minutes while trying to drain the tub, the control will time out and will shut down. No lights will be on at the control. There also will be no error flash on the motor for this issue. However, if you go into the service mode **there will be a slow pump error code** on the control.

The new motor on these models will have a more robust sound to them. This is due to the motor not having a brake resistor on it as previous models have had. The motor reversing power on the winding is used for stopping.

Follow all EHS Procedures, Work Rules, Job Safety Analysis (JSA) Requirements, and the 6 Steps of Lock Out/Tag Out (LOTO)

IMPORTANT SAFETY NOTICE: This information is intended for use by individuals possessing adequate backgrounds of electrical, electronic, and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. Neither the manufacturer nor the seller can be responsible for the interpretation of this information or assume any liability in connection with its use.

