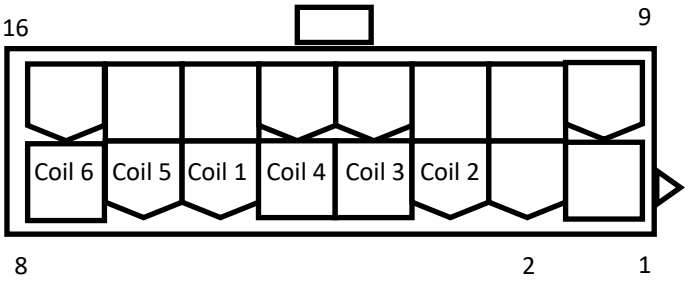
Whack a Clown Coil Information

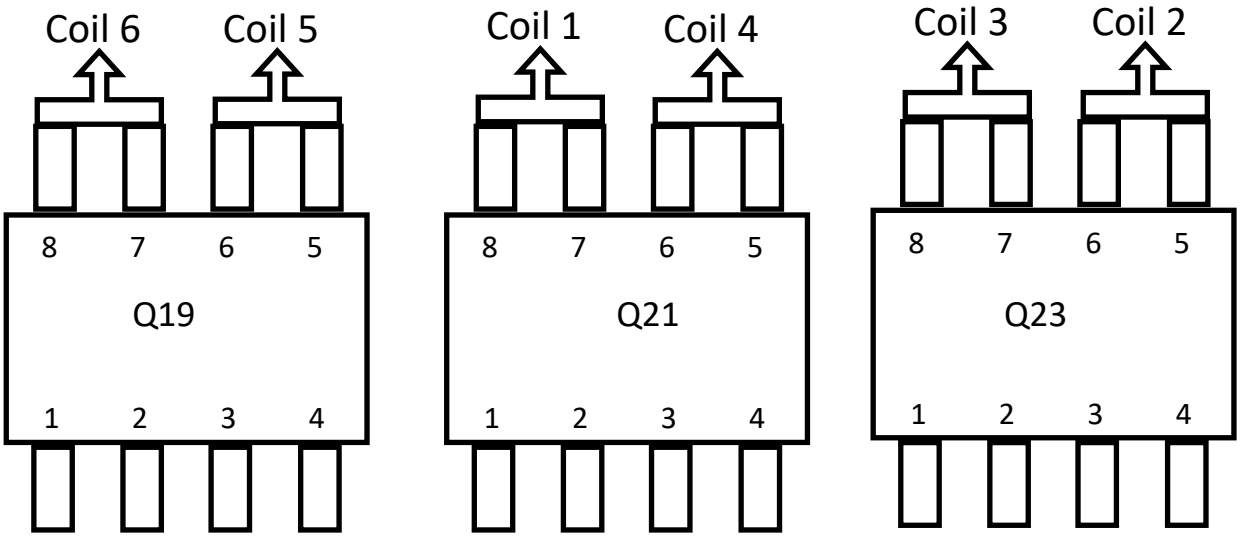
Q19, Q21, and Q23 activate the solenoids for the clown. Each IC controls two coils. Pins 5 &6 control one coil while pins 8&7 control another. When either Q19, Q21, or Q23 become damaged, it is recommended to verify the resistance of the coils connected to the failed component.

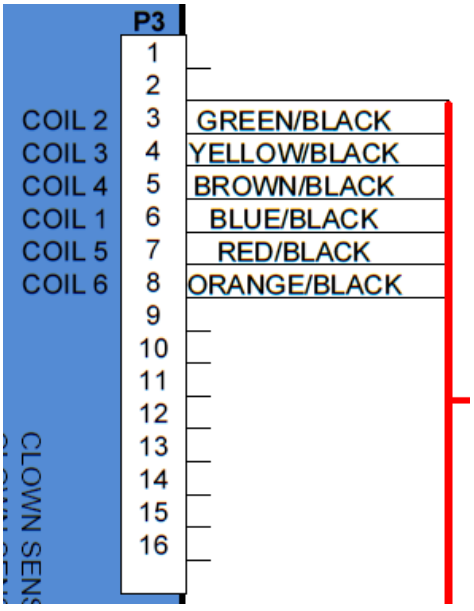
This document will explain our recommendation on how to do so.

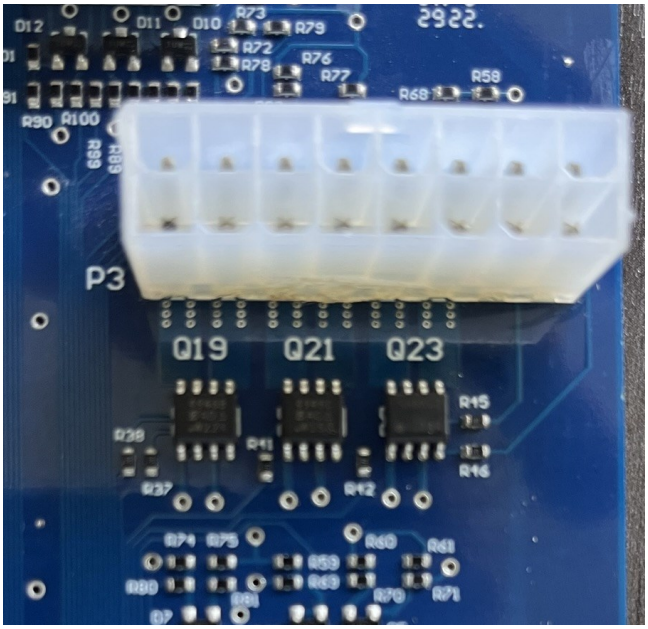


WR2034X - P3 Connector female connector

Clown Coils 12.2 - 12.4 Ω

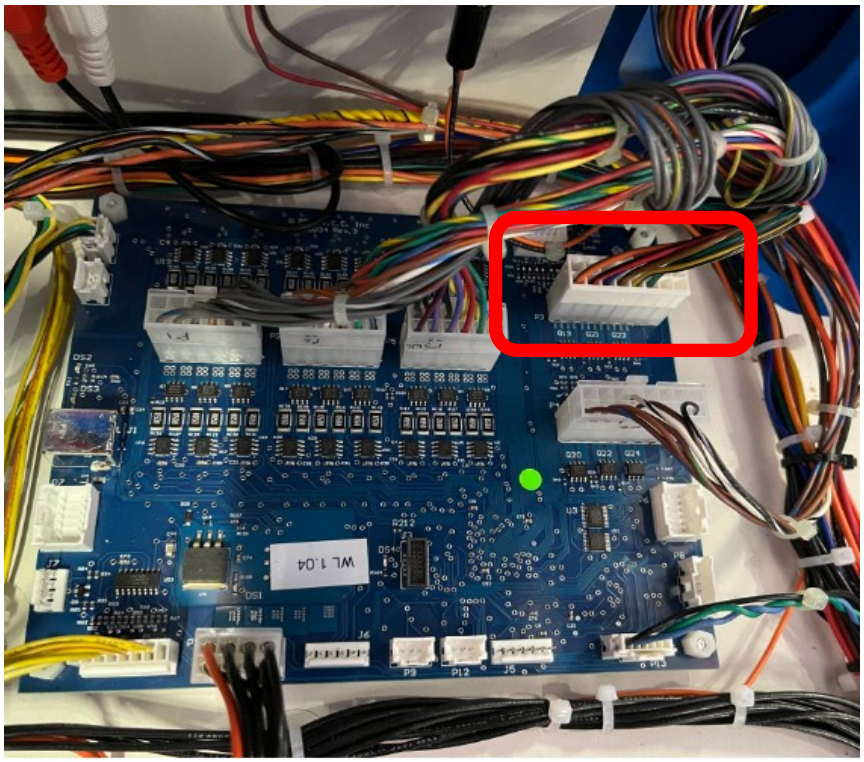






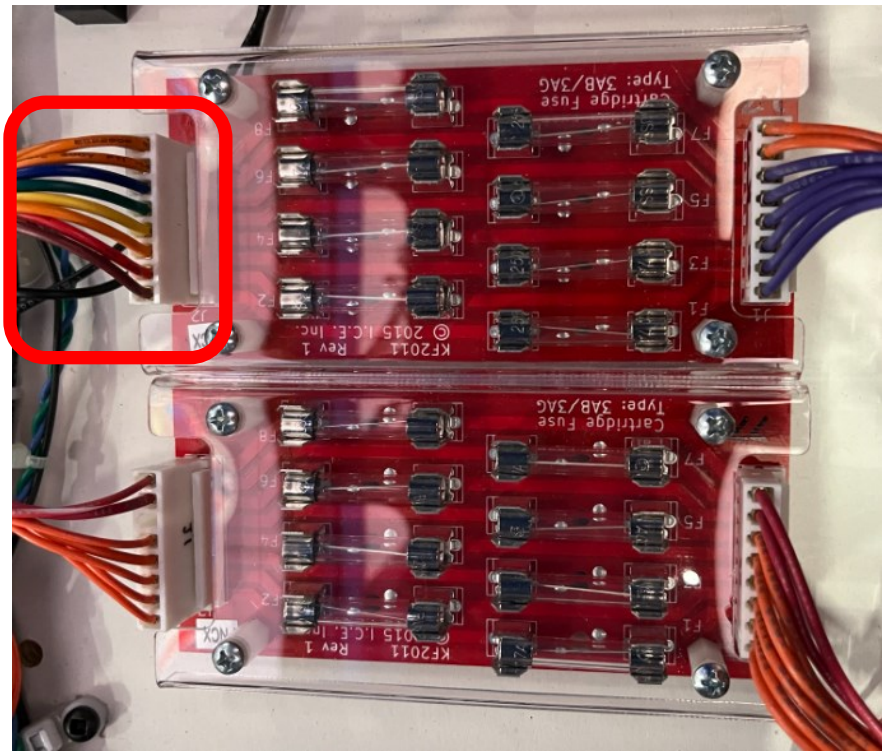
Step 1 - Verify resistance of the coil.

Determine which IC has failed, Q19, Q21, or Q23 and disconnect P3 harness from the I/O board.



Step 2

Unplug J2 from the fuse board that has the 36 volts of DC power going into it (violet wires).



Step 3

Insert your red probe into P3 harness from the WR2034X board for the coil you wish to test.

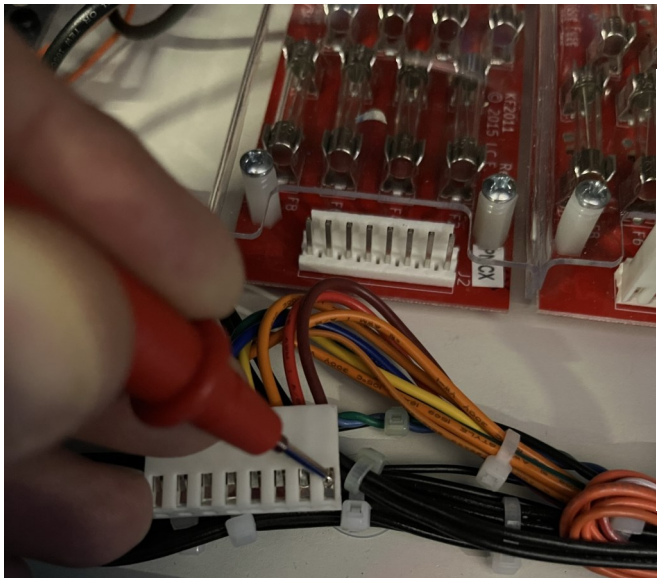
Brown wire	Coil 4	Yellow wire	Coil 3
Red wire	Coil 5	Green wire	Coil 2
Orange wire	Coil 6	Blue wire	Coil 1

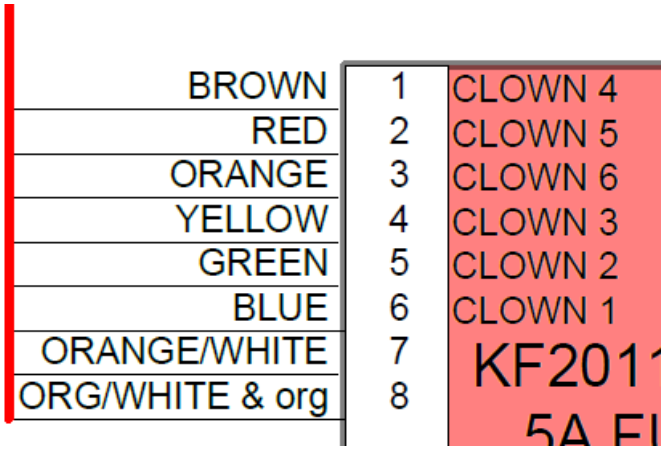
NOTE: Brown wire was selected meaning coil 4 or clown #4.

Step 4

Insert your black probe into J2 harness from the K2011XPNCX board for the coil you wish to test. Should be same color you selected in step 3.

Brown wire	Coil 4	Yellow wire	Coil 3
Red wire	Coil 5	Green wire	Coil 2
Orange wire	Coil 6	Blue wire	Coil 1





Step 5

Select ohms on your meter. It should read 12.2 to 12.5. Start to lift the clown head up and hold. The ohms will jump all over as you move but should go back to 12.2 to 12.5 once you stop moving. Continue to move the clown up and hold at various heights. The meter will jump again but should go back to 12.2 to 12.5 and remain. If the coil drops below 12 and remains this way, the shaft might be the issue. If the coil doesn't read 12.2 to 12.4 in the down position, the coil is bad. All coils should test the same.