

# C2A Tester

For AMF 82-70 Pinspotters



The C2A Tester is essentially a continuity tester which can, by way of its innovative design, test most of the low voltage circuits of the AMF 82-70 Pinspotter simultaneously.

## TESTING PROCEDURE

Turn off power to machine and disconnect Russell-Stoll connector

Unplug C1 and C2A plugs from machine chassis

Ensure 9V battery is installed in rear compartment of C2A Tester

Plug C2A Tester into C2A wiring harness plug

Several LEDs on front panel of C2A Tester will light up

Lit LEDs indicate a complete (closed) circuit

To test all switches fully, manually operate each switch on the machine and monitor the LEDs on the C2A Tester to verify that all wiring is intact and that both NO and NC contacts (where appropriate) of all switches work correctly.



CB (larger white switch on Backend Control Box) has two circuits going through it connected to terminals A&B and C&D.

MGR CTRL is Managers Control. The circuit is normally switched from the front counter (these days often by computer interface)

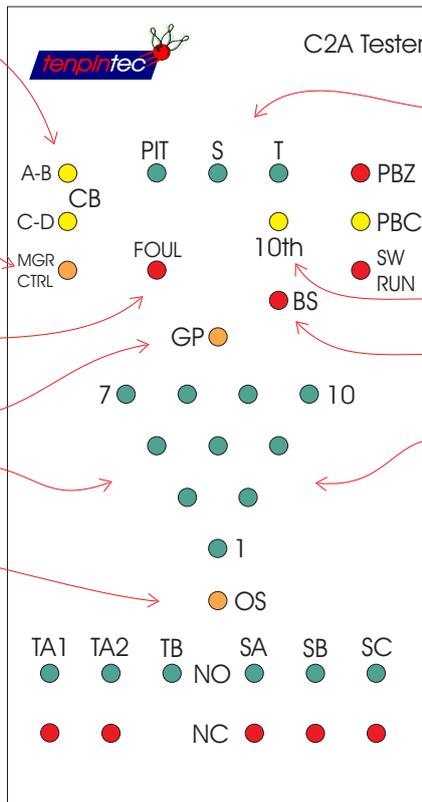
FOUL - this indicates the signal from foul unit. Go up front and commit a foul to make this indicator light up. It requires the foul lights to be turned on. The tester uses the foul light power to light up the indicator.

GP is Gripper Protection switch

1 to 10 are the GS (Gripper Switches) all are found on the table

OS is Off Spot switch located on front inside of machine frame.

TA1 cam switch senses table at 185 and 355 degrees  
TA2 cam switch senses table at 240 and 350 degrees  
TB cam switch senses table between 105 and 255 degrees (interlock)



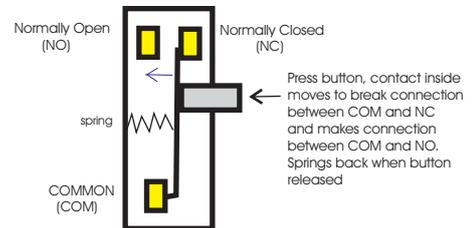
Backend Control Box switches Pit, T (Table) and S (Sweep)  
PBZ (Push Button Zero)  
PBC (Push Button Cycle)  
Sweep Run (silver toggle switch)

10th is the 10th Frame (reset) switch on the ball return

BS is the Bin Switch located under the lever at the 9 pin position on the bin.

The wires from each switch go to the Table Plug which is near the back right of the table (when looking from the back) The Table Cable then runs up from the Table Plug into the front wireway of the machine. The wires plug into a terminal strip there. Another bunch of wires connects the terminal strip to the C2A Plug.

SA cam switch senses sweep at 0 and 270 degrees  
SB cam switch senses sweep at 66 and 186 degrees  
SC cam switch senses sweep between 86 and 243 degrees (interlock)



A micro-switch looks a bit like this on the inside  
The switch connects one circuit when "off" and another circuit when "on".

## Additional Notes

TA1 and TA2: In some places around the world, it has become common to swap the wires between these two switches on machines with SS chassis and AMF Accucam installed. If this has occurred on machines being tested, the TA1 LED will light when the TA2 cam switch is activated, and vice-versa.

Interlock: Both SC and TB will always light together, since they are connected in the machine wiring.

Foul: To test the foul circuit, turn on foul lights and get someone to step on the foul line to simulate a foul condition. The 12VAC signal from the foul unit will cause the FOUL LED to light.

With the exception of MGR CTRL, FOUL and 10th (frame), all indicators are positioned on the C2A Tester relative to where they are located on the actual 82-70 Pinspotter

