

### **Switch test FAQ**

#### **Caution:**

If you are not comfortable working on pinball hardware and/or high voltage electronics, please get professional support for this. In general: use your common sense. Don't experiment. Don't be a nihilist. Only skilled and trained people are allowed to open this system. The manufacturer accepts no responsibility for injuries caused by unauthorized operation. Keep long hair, fingers, jewelry, etc. away from turning parts of the system.

One of the most important test in the TBL is the switch test.

How do you do this?

First you need to open the coindoor and understand the controls you will see fitted in the coindoor

#### Coin Door buttons

#### **Normal function**

With the coin door buttons (located at the inner side of the coin door to the left), you can make all game adjustments you desire as well as carry out tests if needed.

In normal use, the two inner buttons function as volume up (+) or down (-). The most left button functions as Escape and the most right as Enter button. As there are two coindoor styles there a two appearances of the coindoor buttons, both are here displayed



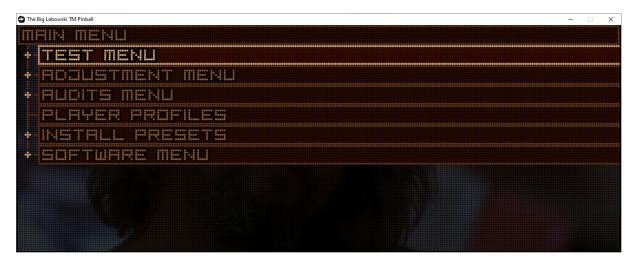


### Menu function

Push the Enter button to open the Main menu. In the Main menu, you have submenus which will lead you to subsections with a variety of possibilities:

- Test menu. You can carry out any test you desire to check if something is working properly.
- Adjustment menu. You can adjust settings or customize gameplay to your needs.
- Audits menu. Here you see what the earnings are, how many times a flipper was activated, etc.
- Player profiles. With the TBL, you can give players a profile. If they select this profile
  when playing a game, they can see their statistics later, such as high score, average
  score, ball times, etc.
- Install presets. Here you can set a pre-defined set of adjustments.
- Software menu. Here you can find software related options, such as version check & select, and update.

You can use the + - keys to select the item of your choice and when pressing the Enter key, this choice will be activated. The Escape key will return you to your previous choice or close the test menu.



#### Test Menu

In this menu, you can carry out any test you desire to check if something is working properly.

```
TEST MENU
| SUITCH TEST
| SOLENDIO TEST
| LEO TESTS
| LEO TESTS
| LEOFFER MOTOR TEST
| SOULING OFTO TEST
| FUDITE MENU
| FUDITE MENU
| FUDITE FRESETS
| NETFLL FRESETS
```

#### Switch test

If you activate this test, it will display all switches which are active at that moment.

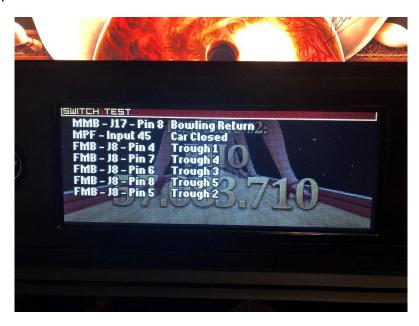
```
The Big Lebowski TM Pinbal
SWITCH TEST
  MPF - Input 45
                    Car Closed
  FMB-J8-Pind
                    Trough 1
  FMB-5W01
                    ShooterLane
  FMB-J8-Pin7
                    Trough d
  FMB-J8-Pin 6
                    Trough 3
  FMB-J8-Pin 8
                    Trough 5
  FMB - J8 - Pin 5
                    Trough 2
```

If you have doubts about a certain switch, you can check the correct working here. Push the switch, or even better, roll a ball over it, and see if this switch pops up on the display here. Also, a sound can be heard when a switch is activated and you can also see if there are no switches active when they should not be.

The displayed screen is a typical example without a game started. You will always see Car Closed plus the balls in the ball trough 1-2-3-4-5. Shooter lane will only be active when a ball is present in the shooter lane.

Which switches are expected to be Active with NO game started?

Most likely it is:

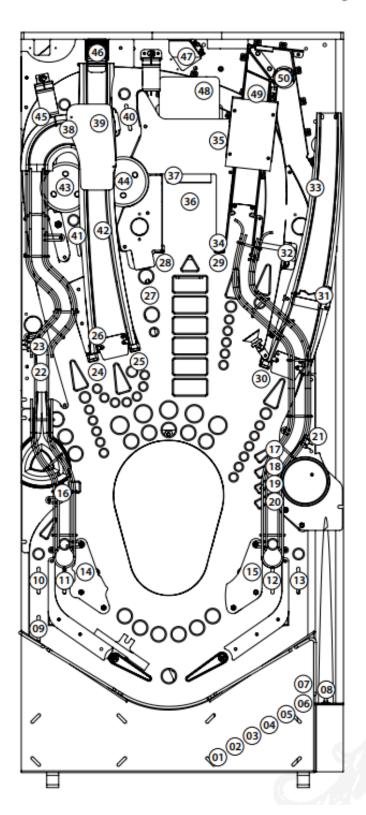


And depending on the exact position of the Bowling launcher it can also be this



If you see any other switches Active this is most likely a stuck switch and needs to be fixed prior to further diagnosis.

# Switch Overview Main Playfield

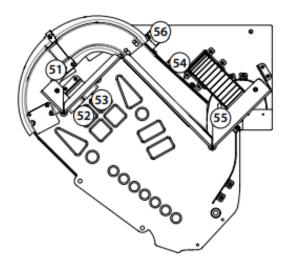


01. Balltrough 1	Opto
02. Balltrough 2	Opto
03. Balltrough 3	Opto
04. Balltrough 4	Opto
05. Balltrough 5	Opto
06. Balltrough 6	Opto
07. Balltrough Jam	Opto
08. Shooter Lane	Rollover
09. Kickback	Rollover
10. Left Outlane	Rollover
11. Left Inlane	Rollover
12. Right Inlane	Rollover
13. Right Outlane	Rollover
14. Left Slingshot	Leaf
15. Right Slingshot	Leaf
16. Light Kickback	Target
17. White Russian 1	Target
18. White Russian 2	Target
19. White Russian 3	Target
20. White Russian 4	Target
21. Mini Playfield Exit	Microswitch
22. Saucer	Microswitch
23. Left Ramp Made	Microswitch
24. Left Light Lock	Target
25. Right Light Lock	Target
26. leftRampEnter	Opto
27. Scoop	Microswitch
28. Left Nihilist	Target
29. Center Nihilist	Target
30. Right Nihilist	Target
31. Right Ramp Enter	Microswitch
32. Spinner	Microswitch
33. Shooter Lane Exit	Opto
34. Rug EOS Front	Microswitch
35. Rug EOS Back	Microswitch
36. Rug Hit	Microswitch
37. Rug Made	Opto
38. Maude1 M	Rollover
39. Maude2 A	Rollover
40. Maude3 U	Rollover
41. Maude4 D	Rollover
42. Maude5 E	Rollover
43. Left Jet	Leaf
44. Right Jet	Leaf
45. Left Loop	Rollover
46. Left Ramp Lock	Opto
47. Mini PF Scoop	Opto
48. Loop Top	Opto
49. Center Ramp	Opto
50 Vertical Habicker	Leaf

50. Vertical Upkicker

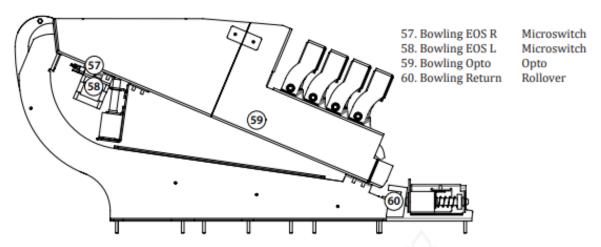
Leaf

# **Switch Overview Mini Playfield**



51. Mini PF Ramp Enter Microswitch
52. Left Parking Target
53. Right Parking Target
54. Car Close Microswitch
55. Right Ramp Made Rollover
56. Mini PF RampMade Rollover

## **Switch Overview Bowling Alley**



### Switch Overview Cabinet

These switches are all connected to the Switch Board (SW-16) in the front left side of the cabinet.

J2, Pin 1	Flipper Up R	Opto	J6, Pin 1	Menu 1	Button switch
	Flipper Lw R	Opto	J6, Pin 2	Credit 2	N/A
	Launch Button	Button switch	J6, Pin 4	Credit 1	N/A
J2, Pin 5	Flipper Lw L	Opto	J6, Pin 5	Slam Tilt	Leaf
J2, Pin 6	Start Button	Button switch	J6, Pin 6	Menu 4	Button switch
J2, Pin 7	Tilt	Tilt	J6, Pin 7	Menu 3	Button switch
J2, Pin 8	Coin Door	Interlock switch	J6, Pin 8	Menu 2	Button switch
J2, Pin 9	Credit 3	N/A	J6, Pin 9	Credit 4	N/A