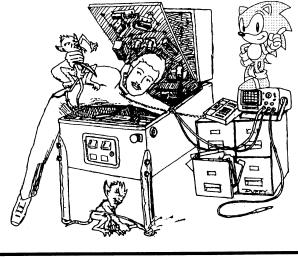
Service Bulletin Nº 73



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Technical Support

- 1-800-KICKERS (800-542-5377)
 - Fax 708-345-7889 •



Joe Blackwell	Eric Winston	Ted Kilpin	Jay Alfer
Technical Support Manager	Technical Support Engineer	Technical Support Engineer	Tech. Doc. Administrator

TO: Parts & Service Managers

DATE: April 28, 1995

RE: "NEW" Portals™ Service Menu in BATTON Pin

This service bulletin is an excerpt of our generic operations manual for "THE EASY TO USE PORTALS™ SERVICE MENU". This bulletin is intended to not only familiarize you with the system but should be used as a training tool or in conjunction with sales brochures.

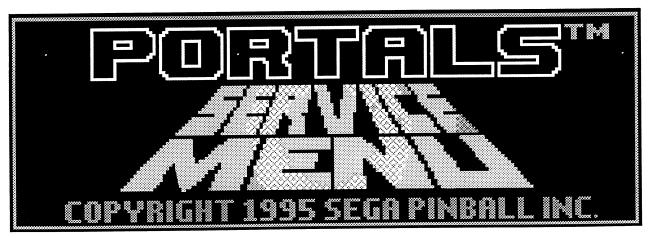












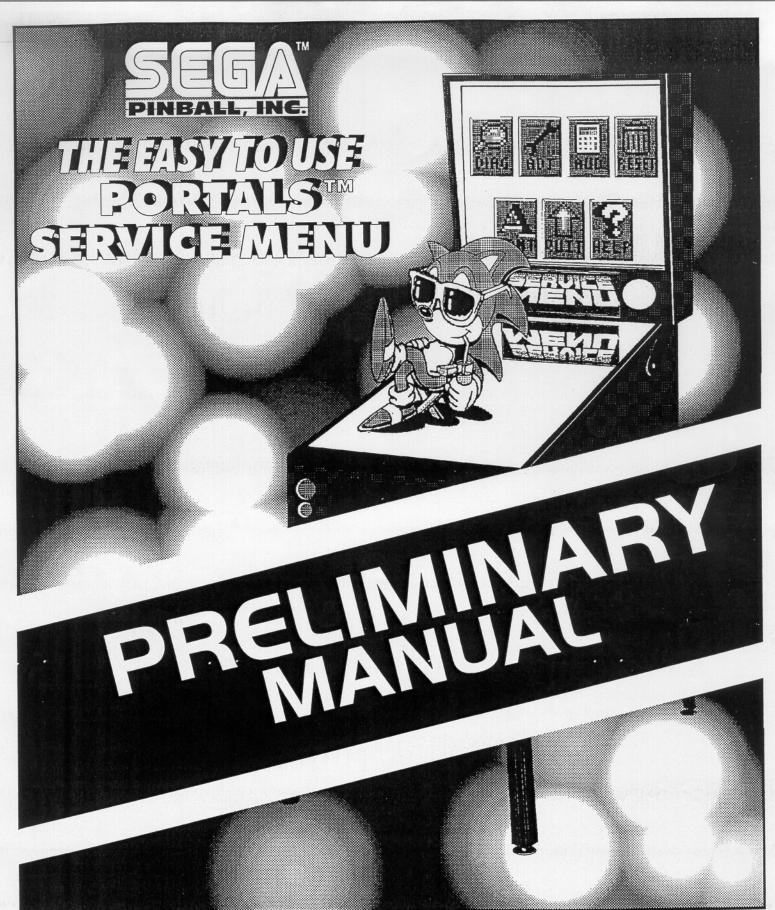












JOE BLACKWELL

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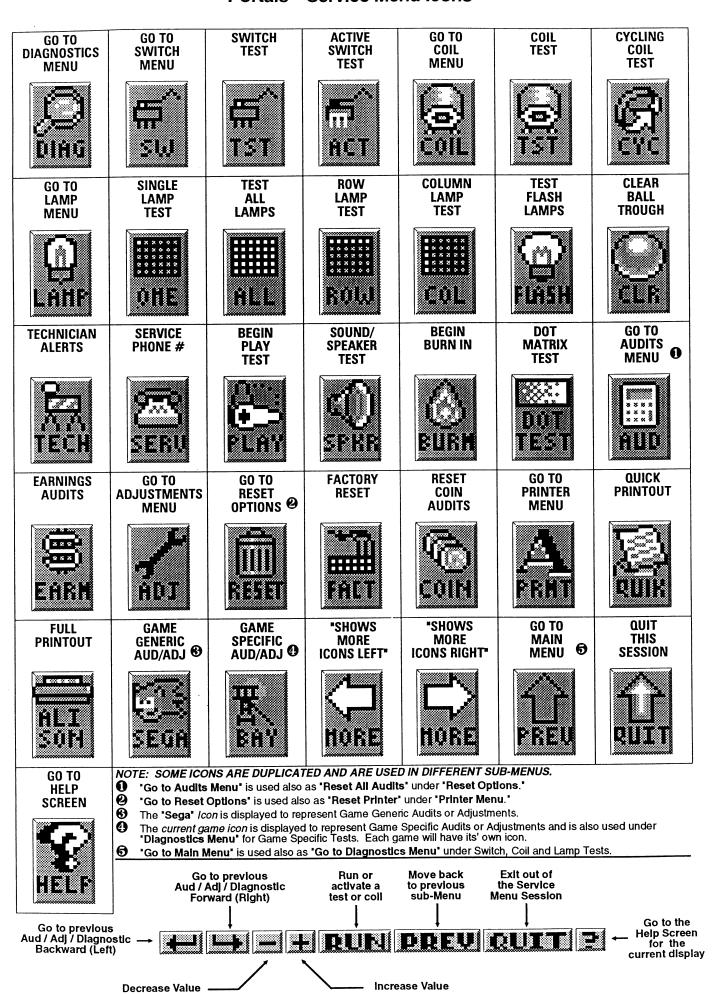
TECHNICAL SUPPORT ENGINEER

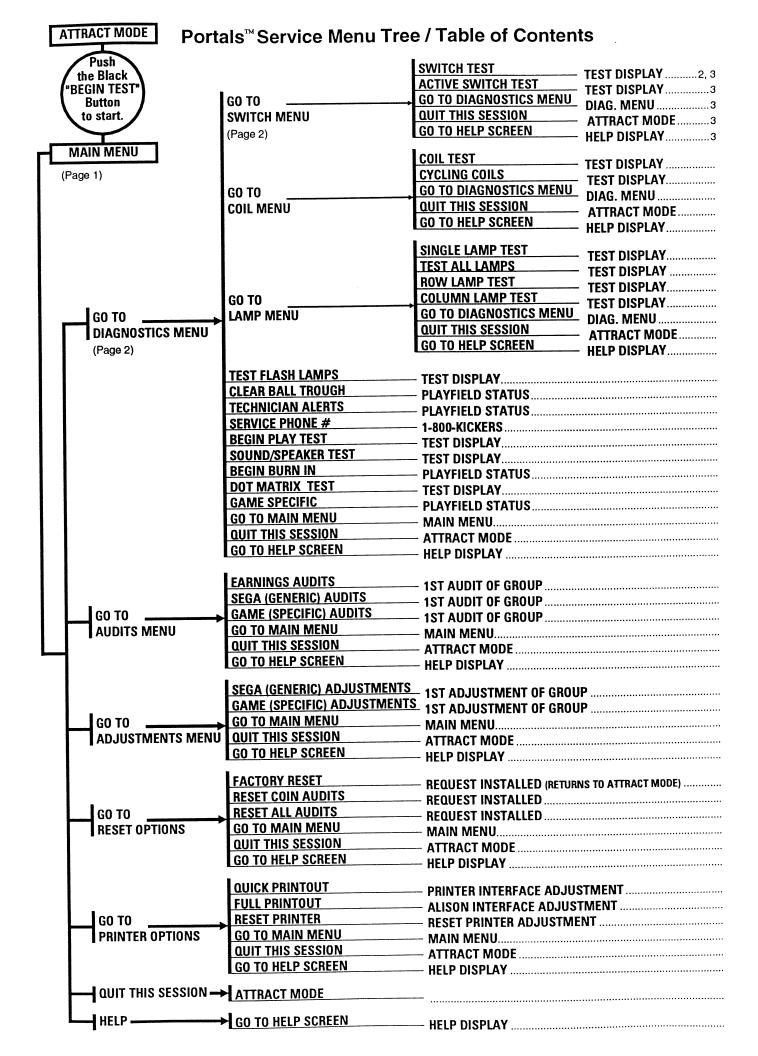
JAY ALFER

TECH. DOCUMENTATION ADMINISTRATOR

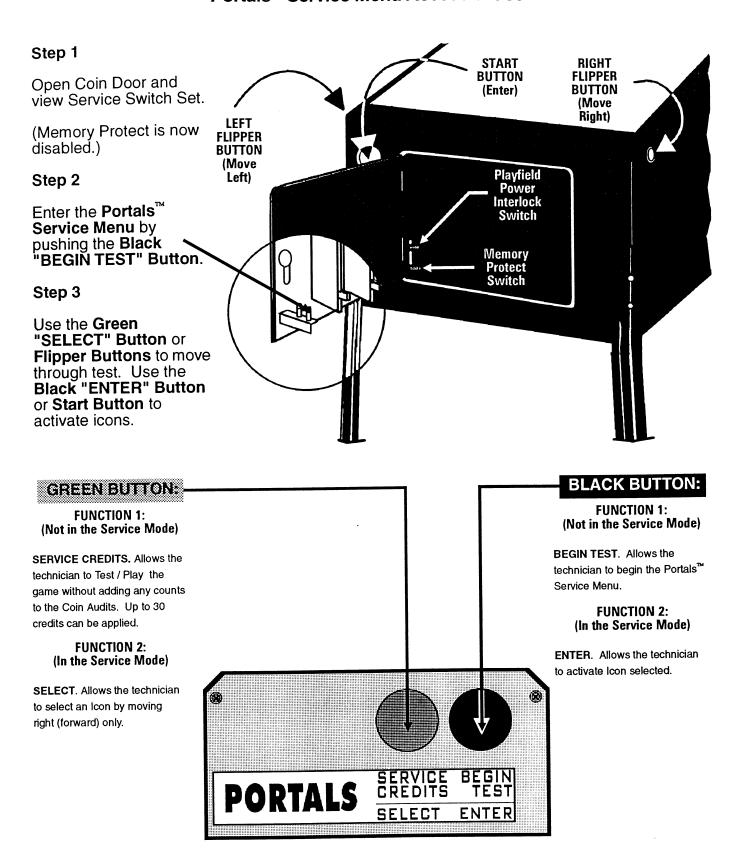
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Portals[™] Service Menu Icons





Portals™ Service Menu Access & Use

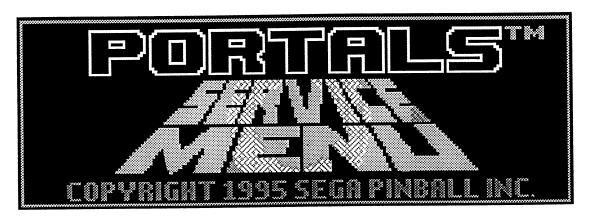


The Green "SELECT" Button will change the selection by moving right (forward) only. For left/right (forward/backward) movement, use the Left & Right Flipper Buttons accordingly. The Start "ENTER" Button is used like the Black "ENTER" Button. When using the Portals™ Service Menu, use the Flipper and Start Buttons for movement through the menu for viewing. Use the Black "ENTER" and Green "SELECT" Buttons only while in Switch Test as the Start Button & Flipper Buttons are a part of this test. Please Note: The Coin Door must be open when changing Adjustments, so that the MEMORY PROTECT SWITCH is disabled.

Portals[™] Service Menu Introduction

This manual will take the user through our new **Portals™ Service Menu** in a *Step-By-Step* process. Presented in the manual, will be each screen as shown in the *Video Display*. To get into the Service Menu Mode: • Power-up Game (If not already) & Open up the Coin Door. • On the Coin Door is the Service Switch Set. Push down the **Black "BEGIN TEST" Button**.

Looking at the Video Display you will see the introductory screen:

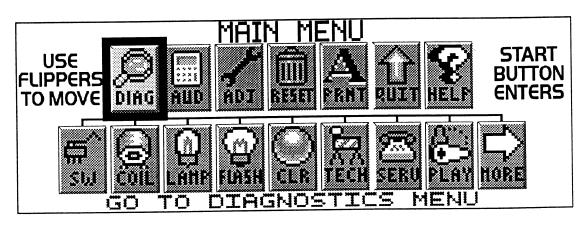


The Coin Door may be closed for security, however, please note with the Coin Door Closed the game's **MEMORY PROTECT** is enabled; meaning, any changes that are made will be not be written to memory. If changing adjustments is required, ensure the Coin Door is open.

Use the Left & Right Flipper Buttons to change the selected ICON left or right, and the Start Button (or Extra Ball Button) to activate the selected ICON. The use of the Green "SELECT" & Black "ENTER" Buttons is required in Switch Test or Active Switch Test, as the Start & Flipper Buttons are a part of this test. The Green "SELECT" & Black "ENTER" Buttons can be used at any time as well as the Left & Right Flipper Buttons and Start Button.

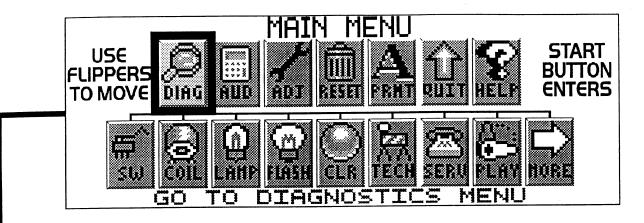
For Diagnostic Purposes, be sure the *Playfield Power Interlock Switch* is pulled out so Playfield Power is not disabled.

The MAIN MENU now appears with the "DIAG ICON" (DIAGNOSTICS MENU) flashing:

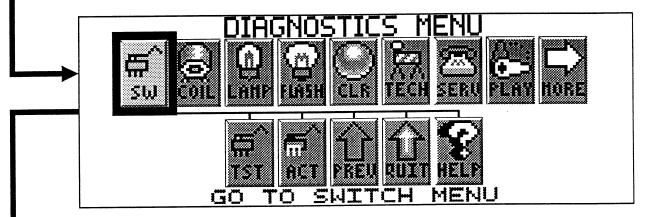


The following pages will demonstrate activation of the icons from the Main Menu.

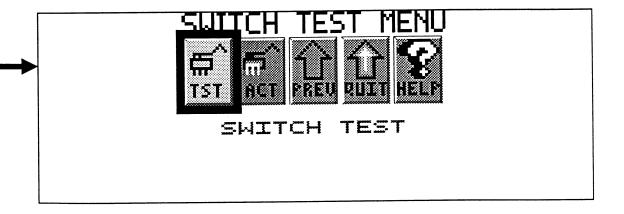
The **MAIN MENU** now appears with the "DIAG ICON" (**GO TO DIAGNOSTICS MENU**) flashing: Press the **Start Button** to *activate* this icon. This will bring up the **DIAGNOSTICS MENU**.



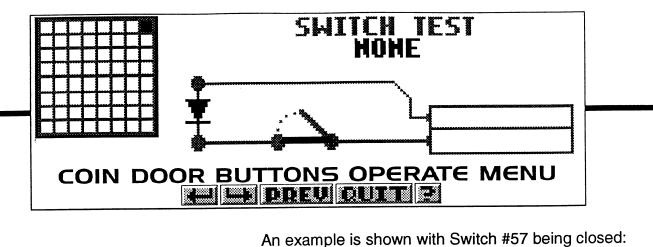
The **DIAGNOSTICS MENU** now appears with the "SW ICON" (**GO TO SWITCH MENU**) flashing: Press the **Start Button** to *activate* this icon. This will bring up the **SWITCH TEST MENU**.



The **SWITCH TEST MENU** now appears with the "TST ICON" (**SWITCH TEST**) flashing: Press the **Start Button** to *activate* this icon. This will bring up the **Switch Test Display**.



The Switch Test Display now appears. All switches can be tested one at a time.



As each switch is closed, the grid position (1-64) will be lit up respectively. In the example, the grid is lit (right corner). Under "SWITCH TEST", describes the switch in the Switch Matrix which includes the name (e.g. Left Outlane #57), the Return (Row) Wire (WHT-BRN) and the Drive (Column) Wire (GRN-GRY), the switch part number and the "Pin-Outs" from the CPU Board.

SWITCH TEST
LEFT OUTLAME #57
WHT-BRM RETURM

SIS-SI38-OB

CPU

DRIVE
CH 10-P9
CH 08-P9 Q48

COIN DOOR BUTTONS OPERATE MENU

MENU HELP SCREEN

GO TO PREVIOUS AUD/ADJ/DIAG
GO TO NEXT AUD/ADJ/DIAG

PREVIOUS MENU
OUIT THIS SERVICE SESSION
GO TO THIS HELP SCREEN

At the bottom of the display are "MINI-ICONS". While in Switch Test or Active Switch Test, the Flipper & Start Buttons are deactivated. Use the Green "SELECT" or Black "ENTER" Buttons to select and activate the "MINI-ICONS" on this screen. Using the Green "SELECT" Button, shift over to the "? ICON" (Help). At different menus, there

are different help screens which relate to the menu which is displayed. The display above will appear. Hit any button to exit from the **HELP SCREEN**. In Switch Test, if the "Left or Right Arrow ICON" is activated, the display will go to the previous diagnostic, which is the Active Switch Test and vice versa.

Use the **Green "SELECT" Button** to change the selected **ICON** to "PREV ICON". Press the **Black "ENTER" Button** to go to the previous menu. Change the selected **ICON** to the "ACT ICON" (ACTIVE SWITCH TEST). **Note: The use of the Start & Flipper Buttons may be used again outside of the Switch & Active Switch Tests.** Go through the same steps as above to activate this **ICON**. Exit out by activating the small "PREV ICON" then the big "PREV ICON" in the previous menu. This will bring up the **DIAGNOSTICS MENU**. The Switch Test Session is now complete.

Note: Activating the "QUIT ICON" in any display will completely exit the Service Session.



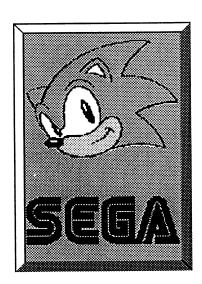
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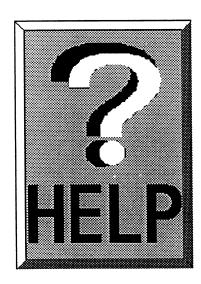
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