ERRATA I TO SIDETRAK

Technical Manual

This is ERRATA I to the SIDETRAK manual dated December 1979. Changes may be found on pages 3 and 4 of the manual. These changes are dated January, 1980. For your convenience fourteen Schematics have been included.

UNIVERSAL GAME BOARD V2.0

1. Sync and Video Generation
2. Video RAM Character Generator and Shift Register
3. Continuation of #2
4. CPU, Page 0 and 1
5. CPU ROM
6. Moving Object Position Counters
7. Moving Object Video Generation
8. I/O Port
9. SIDETRAK Audio, 1
10. SIDETRAK Audio, 2
11. Universal Power Supply Assembly Harness
12. Coin Harness
13. Control Panel Harness
14. Main Harness
Each time the player passes START on the outside track, another car is added to the train. For each car that is added, points are increased as passengers are picked up. For example, passengers picked up with a one-car train in the outermost track are worth 10 points. The same passengers picked up with two cars bring 20 points. Passengers picked up by three cars in the same outermost lane are worth 30 points, etc.

Play continues until the player crashes into the killer engine. If the player succeeds in picking up all the passengers without crashing into the killer engine, the player is rewarded with a bonus round. The bonus round resets the playing field and the player is given the same number of cars and passengers that he had at the end of play. For example, if there were three cars containing passengers at the end of the successful game, then the same three cars and passengers would appear on the field to begin the bonus round.

II. SELECTABLE OPTIONS

SIDETRAK has three switch selectable options. These are controlled by a 8-position DIP switch located on the main logic board at position 16A. This switch is accessible from the front of the game through the coin door. Figure 1 shows all selectable functions controlled by the 8-position DIP switch.

![Diagram of 8-position DIP Switch]

Figure 1. Functions of the 8-position DIP Switch

3
Following are the switch settings for the selection of options:

**A. COINAGE**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Switch 4</th>
<th>Switch 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Player - 1 Coin</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>1 Player - 1 Coin</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>2 Player - 2 Coin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Player - 2 Coin</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>2 Player - 4 Coin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**B. CRASHES (Turns)**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Switch 2</th>
<th>Switch 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Crashes</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>3 Crashes</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>4 Crashes</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>5 Crashes</td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

**C. TOP THIS SCORE**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Switch 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit awarded for topping score</td>
<td>OFF</td>
</tr>
<tr>
<td>Credit not awarded for topping score</td>
<td>ON</td>
</tr>
</tbody>
</table>
NOTES:
1. All wires 22 awg, insulated.
2. Absolutely no substitutions on specified wire colors.

ST 30-3188
NOTES:

1. All wires 22 awg insulated unless otherwise specified.

2. Absolutely no substitutions on specified wire colors.
UNIVERSAL POWER SUPPLY ASSEMBLY
HARNESS SCHEMATIC

**J8**

- **J8**
  - **1**: RED
  - **2**: RED
  - **3**: GRN

**J9**

- **J9**
  - **1**: BLK
  - **2**: WHT
  - **3**: GRN

* Svgdc (soldered to "A" terminal(s) on 5 volt power supply)
* Lsvgdc (soldered to "B" terminal(s) on 5 volt power supply)
* Gnd (green wire return) (soldered to "C" terminal on 5 volt power supply)
* Gnd (green wire return) (soldered to "C" terminal on 5 volt power supply)

AC hot (soldered to primary terminals of power supply assy, transformer(s)*)
AC return (soldered to secondary terminals of power supply assy, transformer(s)*)
AC gnd (soldered to chassis ground) (use of 5 volt power supply)

* Which transformers, busses or terminals used
  -大事に使用されるワイヤ、バussed、またはotherwise specified

NOTES:
1. All wires 18 gauge insulated unless otherwise specified
2. Absolutely no substitutions on specified wire colors

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