Nytric USBI/O to GVRI/O Conversion for Redline Rampage Conversion Games

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This document describes how to replace a Nytric USBI/O PCB with a GVRI/O Mini PCB. Redline Rampage will not operate properly with a Nytric USBI/O PCB.

Kit (Part # 90634-01) Contents	
Component	**Part #**
GVRI/O Mini PCB	990-0014-CBN
PCB Mounting Feet	49-1019-00
Conversion Harness	115-0245-01
Instructions	040-0274-02

CAUTION: To prevent electrostatic discharge (ESD) damage, handle PCBs by the edges only and use a grounding wrist strap or similar precaution.

If your System Computer contains a Nytric USBI/O PCB it will have the DB25 and DB37 ports shown in *Figure 1*.

Do the following to convert the I/O PCB:

1. Turn off the cabinet and disconnect the AC power cord.
2. Locate the DB25 and DB37 ports on the rear of the System Computer (see *Figure 1*).
3. Disconnect the harnesses from the DB25 and DB37 ports and connect them to the corresponding connectors on the Conversion Harness.
4. Connect **J6** — **J10** on the Conversion Harness to the GVRI/O Mini PCB as shown in Figure 2.
5. Disconnect the USB cable from the old system computer and connect it from the GVRI/O Mini PCB to a motherboard USB port on the new system computer.
6. Connect a PC power connector from the cabinet power harness to **J2** on the GVRI/O Mini PCB.
7. Secure the PCB to the cabinet using the four mounting feet from the kit.

See Figure 3 on page 3 for a detailed wiring diagram of the conversion harness. Use this diagram to help you troubleshoot any issues with game hardware.

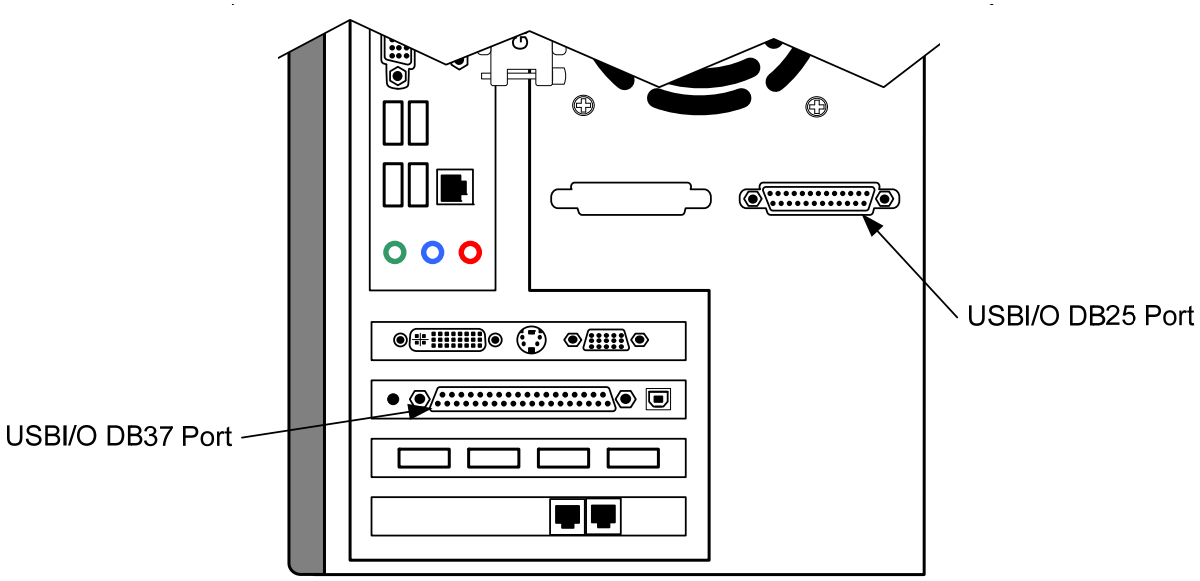

Figure 1. Identifying a Computer with a Nytric USBI/O PCB

Note: The audio amp on the GVRI/O Mini PCB is not normally used in conversion games but can be used if a channel should fail on the primary audio amp.

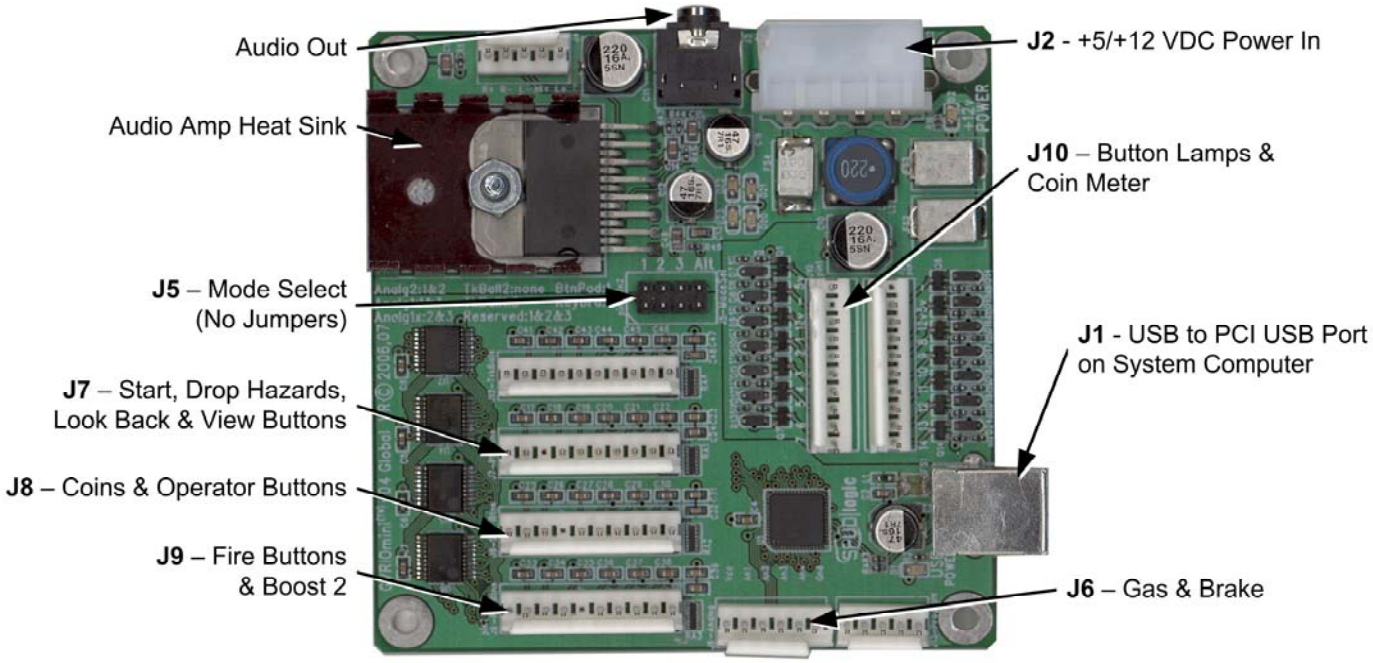

Figure 2. GVRI/O Mini PCB (Version 4)

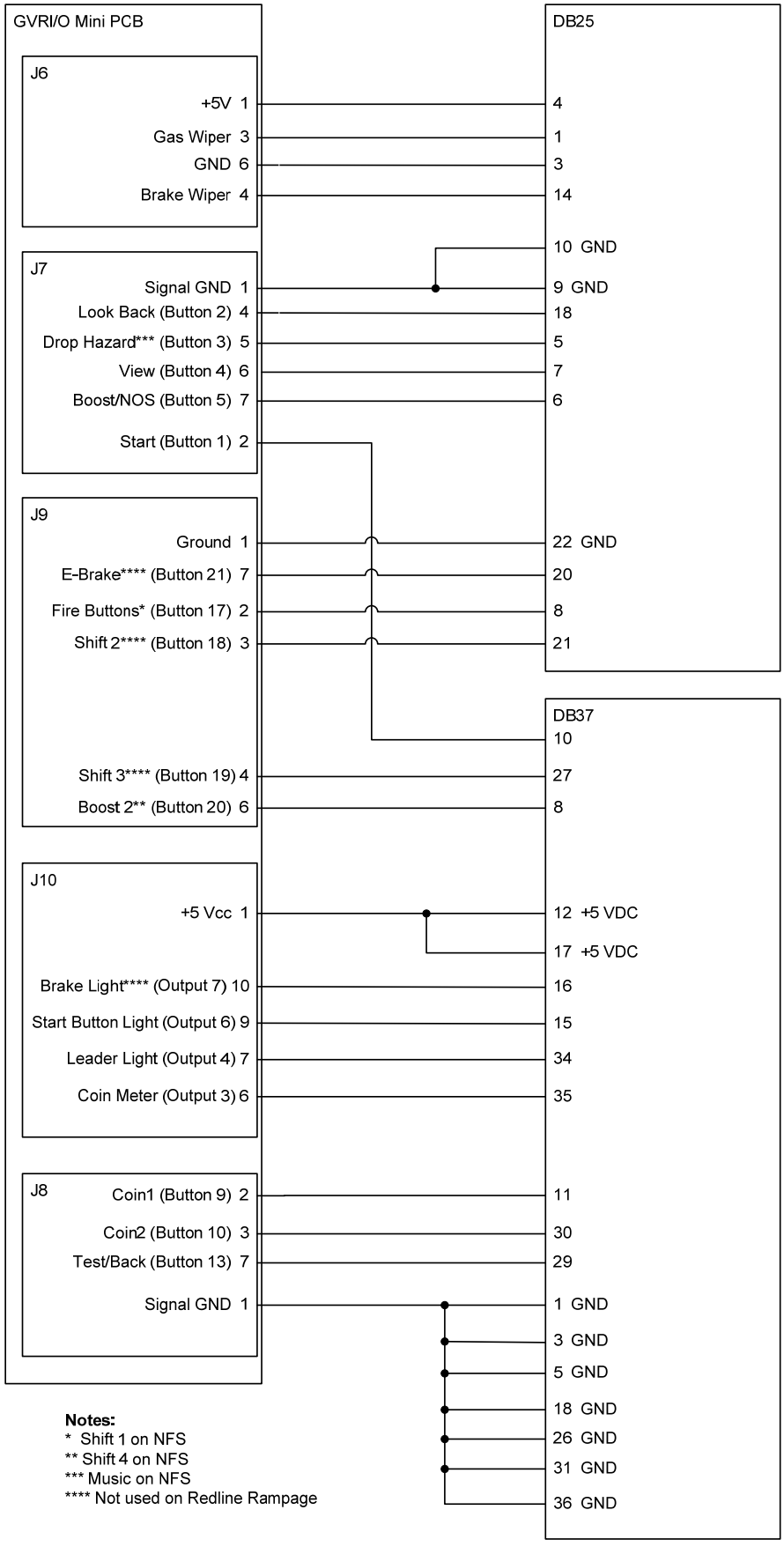

Figure 3. Conversion Harness Detailed Wiring Diagram