Prodigy Upgrade from SD-1
(With Power Supply and Key Driver boards)

Kit # 3800-20003

In this procedure you will be installing the new Prodigy CPU, power supplies and cover plate with cables. See the pictures and part #'s of parts in kit on page 3.

Tools needed:

1. Drill (cordless, variable speed)
2. ¼" nut driver or ¼" magnetic bit for drill
3. # 1 and # 2 Phillips screw drivers
4. Staple gun
5. Flexible extension for drill (optional)
6. 3/32" (2.4) drill bit

Installation Procedure

NOTE: Before installing the new Prodigy verify the system is working correctly by pressing the test button on the CPU. All notes and sustain should be working. If not they this should be addressed first.

1. Replace the current large power supply with the new fanless power supply. Be sure to add the ground strap under the mounting flange. (See fig. 1- left side)

   NOTE: The power supply can be mounted either flat or on end as shown in fig. l.

Figure 1

2. Remove the trapwork metal levers and rail cover. The rail cover has 2 screws at each end and 2 screws at the CPU.
3. Outline each end of the CPU and remove it from the piano. (See fig. 2)

Figure 2

4. Place the new cover plate #3250-12001 in the same location as the old CPU.
5. Remove all 3 driver boards and replace with HD driver boards.
6. Replace the driver board cable (gray) 40 VDC cable #1600-12060 with the new cable. (from plug on cover plate to the 3 key driver boards)
7. Removed the pedal cable from bass and tenor boards (gray cable)
8. Remove the RJ-45 data cable from the bass driver board and replace with the new 48" data cable #1700-12064-03 supplied in the kit. (see fig. 4)
9. Mount the new Prodigy CPU at a good location that the 48"data cable will reach. Be sure to mount the ground under the mounting flange of the CPU. (See fig. 3)

Figure 3

10. Mount the new small 12 VDC power supply #3350-00015 on the beam of the piano with Velcro provided. Staple the Velcro to the beam and secure small power supply with the Velcro. (See fig. 5)
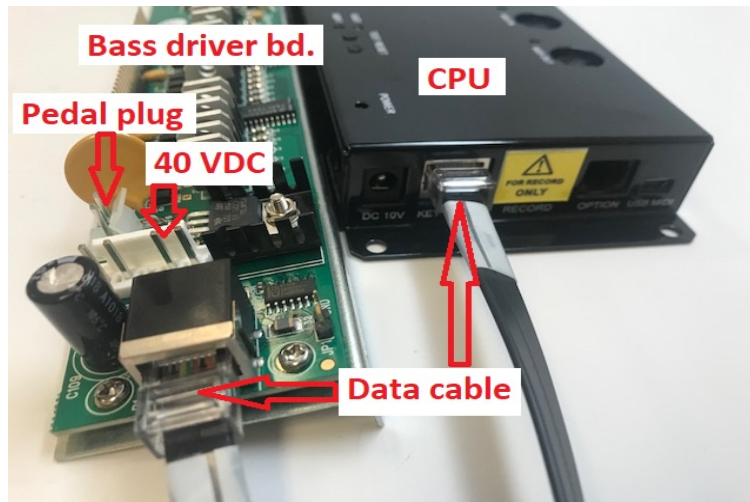

Figure 4

Figure 5

Figure 6

11. Locate the pedal adapter cable #1700-00023 (RCA to 2-pin plug) in kit and route from RCA pedal cable thru the cover plate moon hole to the bass driver board pedal connection. (See fig. 4)
12. Power up the system and press the test button on the CPU to verify that system works correctly. All notes and damper should play.
13. Neatly secure all cables, re-install rail cover and trapwork.
14. It may be necessary to drill 2 new holes to secure the cover plate to the rail cover. A 3/32"(2.4mm) drill bit is need for a pilot hole for the screws. Use an auto-center punch to mark the location for the drill bit. (See fig. 6)

NOTE: The cover plate is positioned on the outside of the rail cover. The plate makes a ground connection to the rail cover.

Calibration Procedure

NOTE: There are 3 Prodigy videos on YouTube that explain the setup of the Prodigy system. Go to YouTube and type in "PianoDisc Prodigy" to view these videos.

1. Go to the setting on your iPhone or iPad to connect to "PD SilentDrive BT Audio".
2. Go to the Apple store and download "PianoDisc Calibrate" app.
3. Open the PianoDisc Calibrate app and connect to "PD SilentDrive BT MIDI" by touching the "MIDI" icon in the top right corner.
4. Once connected to MIDI, press "Silent Drive" and you will see the first page of setup.
5. Once you have setup all items on this first page, touch "Advanced" at the top of page and setup this page. For more info on setup view the videos on YouTube.
6. Once you finish the SilentDrive you can "save" these settings at the top of the page. Touch the "save" tab and a drop box will appear, type in the customer name for a reference.
7. Then go to "iQ" and do the setup on this page. Refer to the videos for detailed information.
8. **Once you are finished with all the setup, make sure to "Disconnect Bluetooth MIDI.**
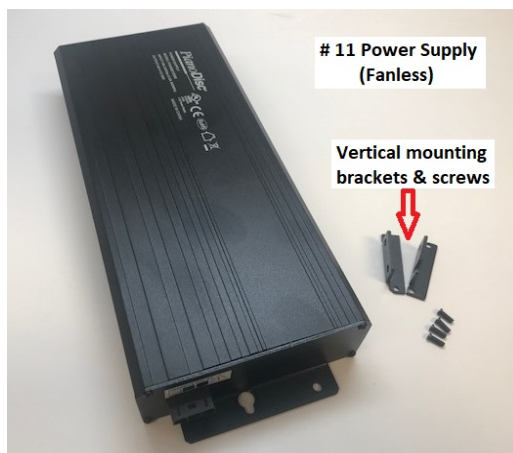
Prodigy parts in kit

Prodigy CPU - #6250-00009-01

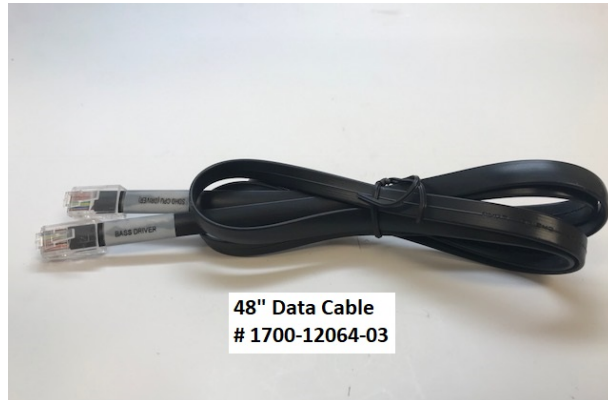Driver board cable - #1600-12060

40 VDC Power supply - #3350-00017

Rail cover plate - #3250-12001

Prodigy parts in kit (cont.)

12 VDC Power supply - #3350-00015

48" Data cable - #1700-12064-03

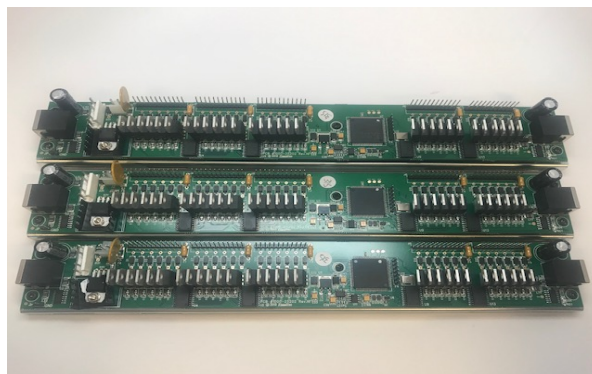48" Data Cable # 1700-12064-03

CPU mounting screws - #1500-12066

Cover plate screws - #1500-12211

Pedal solenoid adapter cable - #1700-00023

Pedal solenoid adapter cable – #1700-00023

Driver Boards – individual #6250-00011