# Table of Contents

Disclaimer..............................................................................................................3  
Introduction...........................................................................................................3  
BigSound™ PB11v6 Kit.......................................................................................4  
BigSound™ P8 Kit.............................................................................................5  
BigSound™ P14 Sound Board............................................................................6  
Remote Knuckle Coupler.................................................................................7  
Coupler Driver Board.......................................................................................8  
P5T Auxiliary Input Board...............................................................................9  
Computer Interface.........................................................................................10  
Sound Library.....................................................................................................11  
  American Steam...............................................................................................11  
  Geared Locos...................................................................................................11  
  European Steam..............................................................................................11  
  European Gas..................................................................................................11  
  Diesel................................................................................................................11  
  European Diesel & Electric...........................................................................11  
  Gas, Electric & Others...................................................................................11  
Loudspeakers.......................................................................................................12  
Batteries & Capacitors.....................................................................................13  
Switches, Jacks & Cables................................................................................13  
Plugs....................................................................................................................14  
Miscellaneous.....................................................................................................14  
Services...............................................................................................................15  

May 2017  
- 2 -
Disclaimer

All information and pricing in this catalog is considered to be accurate as of the time of original distribution. Phoenix Sound Systems reserves the right to change our price structure, product line or any other relevant information at any time. This catalog does not guarantee or fix pricing or availability of merchandise.

Introduction

Dear Model Railroading Friends,

Thank you for considering Phoenix Sound Systems for the enhancement of your railroad. We hope that you enjoy our products as much as we enjoy developing and using them ourselves.

We love to hear your feedback concerning our products and any suggestions which you may have. We want to offer products which you, our customer, desire. This being our goal, we view your input as an integral part of our design and development process.

Thank you for your interest in, and support of, Phoenix Sound Systems. In the following pages you will find our current product line as well as additional services we offer.

Do not hesitate to contact Phoenix if you have any questions or suggestions. We look forward to hearing from you.

We hope you find everything you are looking for in this catalog. If, on the other hand, you do not, please contact us. Chances are we will be able to find, fabricate or finagle something to meet your needs.

May 2017
BigSound™ PB11v6 Kit

The BigSound™ PB11v6 Kit is a complete sound system which typically consists of the following:

✔ 16-bit digital soundboard with a preloaded library selection, specified by purchaser.
✔ A high-quality 8 Ω speaker of appropriate size for the locomotive specified.
✔ A 3-cell (3.6V) nickel metal hydride (NiMH) rechargeable battery.
✔ A 2.5mm Computer Access Jack.
✔ Reed switches for train speed, auxiliary sounds, and special effects activation. 3 per steam kit, 2 with all others
✔ Toggle switch for volume control.
✔ Axle magnets (Steam Kits only).
✔ Manual with installation instructions and wiring diagram.

When ordering the BigSound™ PB11v6 Kit, it is best to specify two key pieces of information. First, the sound file you would like, and secondly the make and model the system is intended to be installed in. By telling us which physical environment the system will be placed in, we can tailor the speaker size to give optimum performance as well as include any necessary additional switches, plugs, connectors or helpful installation tips and tricks we have assembled.

On the following pages, you will find a complete listing of sounds we currently have available.

List Price: $265.00

THE PB11v6 SOUND BOARD ONLY IS AVAILABLE FOR $210.00
**BigSound™ P8 Kit**

The BigSound™ P8 Kit is a complete sound system for DCC and Remote Control users which typically consists of the following:

- ✔ 16-bit digital soundboard with a preloaded library selection, specified by purchaser.
- ✔ A high-quality 8 Ω speaker of appropriate size for the locomotive specified.
- ✔ A 2.5mm Computer Access Jack.
- ✔ Toggle switch for volume control.
- ✔ Axle magnets and Reed Switch – Steam Kits only.
- ✔ Manual with installation instructions and wiring diagram.

When ordering the BigSound™ P8 Kit, it is best to specify two key pieces of information. First, the sound file you would like, and secondly the make and model the system is intended to be installed in. By telling us which physical environment the system will be placed in, we can tailor the speaker size to give optimum performance as well as include any helpful installation tips and tricks we have assembled.

On the following pages, you will find a complete listing of sounds we currently have available.

**List Price: $195.00**

---

**THE PB8 SOUND BOARD ONLY IS AVAILABLE FOR $175.00**
BigSound™ P14 Sound Board

The P14 is our first sound system intended for use in O and smaller scales.

The P14 is a 16 bit polyphonic sound system with a 1 Watt amplifier capable of driving speaker loads down to 8 ohms. The board can be programmed with the Phoenix Computer Interface, allowing you to choose from our extensive sound library of over 80 different locomotive sets.

The P14 is targeted towards O scale On30 DCC or Battery Powered DCC remote control operators and will accept a maximum of 30V. For those running CVP Products miniAirwire900™ CONVRTR®, the P14 can be configured to accept a low power single sided DCC signal – details available in the P14 Low Power DCC Supplemental Guide.

The P14 has 1 trigger input intended for chuff synchronization.

This system is a DCC sound decoder as well, allowing direct triggering of sounds and effects by DCC function buttons. The P14 supports a limited number of DCC CVs as well allowing minor tweaking of performance and configuration.

List Price: $140.00
Remote Knuckle Coupler

The Phoenix Knuckle Coupler, was designed in conjunction with our Remote Coupler Driver Board quite simply because we were tired of constantly having to manually uncouple cars in a few easily reached locations on our layouts. Now you can drop cars and build trains at any location on your layout you wish.

Truck mounting for easy installation on large scale locomotives and rolling stock.

Manufactured from nylon for high durability and long life.

Solenoid drive means consistency, durability, dependability and ease of operation even allowing you to uncouple on the fly.

The Phoenix knuckle mates with knuckles from: Accucraft/AMS, USA Trains, Bachmann, Aristocraft and of course Kadee.

List Price: $47.00
Coupler Driver Board

The Phoenix Remote Coupler Driver Board, or coupler board in short, was designed quite simply because we were tired of constantly having to manually uncouple cars in a few easily reached locations on our layouts.

The coupler board is fully DCC compatible and many of the settings can be adjusted by changing CV values. The coupler board can be programmed to trigger by DCC functions 1-28.

The Coupler Driver Board has four outputs, two servo and two solenoid connections for the Phoenix Remote Knuckle Coupler.

Two physical trigger inputs are included on the coupler board allowing couplers to be fired by non-DCC remote control systems such as Locoline and Revolution.

Physical trigger inputs allow the coupler board to have two independently triggered events; each event can trip either a single servo, two servos, a single solenoid, two solenoids or a servo and a solenoid. This allows two remote control outputs to trigger up to 4 couplers (2 servos and 2 solenoids).

DCC users can fire up to four couplers (2 servo and 2 solenoid) independently by assigning each output (servo A, servo B, solenoid A and solenoid B) its own DCC function or multiple outputs may be assigned to the same DCC function.

List Price: $35.00
P5T Auxiliary Input Board

The BigSound™ P5 Kit is a complete sound system for DCC users. We realize that not everyone uses DCC and a variety of other remote control systems are in use. In order to make the enhancements in the P5 systems available to a wider audience we developed the P5T Auxiliary Input Board.

The P5T connects to the P5 and adds 6 analog trigger inputs and a pair of motor voltage inputs. The analog triggers interface with your remote control system in order to sound the bell, horn/whistle or any of the trigger assignable effects. Triggers may be assigned using the Computer Interface.

The P5T easily connects the P5 with the following systems: Locolinc®, RCS and Train Engineer. The P5T will allow the P5 to connect to other remote control systems as well as those listed above.

The P5T may also be connected to the P8 and PB series systems in order to gain additional analog trigger inputs beyond those built in to the PB11v6, PB11, PB9 and P8 boards.

Part Number: 6055-05
List Price: $45.00
Computer Interface

The Computer Interface connects to the BigSound™ 2K2, P series & PB series sound systems, enabling customers to adjust settings and parameters to suit their preferences. The program is a simple icon-based menu system that enables even novice users to select and alter settings as they choose. The best part about the Computer Interface is that users can make all of these adjustments without ever removing the sound board from the locomotive!

The Computer Interface is designed to be the perfect companion to the Phoenix Sound BigSound™ 2K2, P5, PB9, P8, PB11, P14 or PB11v6 board; these boards are equipped with an access jack that enables immediate connection with the Phoenix Sound Systems Computer Interface.

Adjustable Parameters include:

- All individual sound volumes, including those for the Bell, Whistle, Forward Whistle, Reverse Whistle, Stop Whistle, etc....
- Chuff Rhythm
- Turbo On/Off and Volume for Diesel
- Chuff Cut-Off
- Alter the sound of the Chuff with volume control for each level of Chuff
- Settings for EACH Rev of a Diesel
- Over 25 settings just for Chuff
- Over 30 settings just for Diesel Revs
- and much more....

System Requirements:

- IBM compatible computer running Windows 95 or newer
- 175 MB of disk space (if you wish to install all the ROM files)
- USB port (Phoenix USB Interface requires Windows 2000 or newer, Windows 98SE is NOT supported although the software itself will run on older Windows versions.)
- Power Supply for powering the sound board

Part Number: 1200-00
List Price: $90.00

May 2017
Sound Library

**American Steam**

4-4-0
American Classic Steam 1
American Classic Steam 2
Big Boy
C-16 Consolidation
C-21 Consolidation
Cab Forward
Denver & Rio Grande Western
Dockside Switcher
East Broad Top
Frisco #1522
Grand Trunk Western
Gypsy
Hudson
Hud49 (Hudson with Daylight Horn)
K463 (K-27 #463)
K473 (K-28 #473)
K480 (K-36 #480)
K487(K-36 #487)
Mallet
Mikado
Mogul
Northern
Pennsylvania Rail Road K4
PRR K4 #1361
Porter
Rio Grande Southern 4-6-0
Southern Pacific 4-6-2
SP GS-4 Daylight #4449
Sandy River & Rangeley Lakes Forney
Uintah 2-6-6-2
Virginia & Truckee

**Geared Locos**

Climax
Heisler
36 Ton Shay
38 Ton Shay
55 Ton (3 Truck) Shay
Westside Shay

**European Steam**

Euro
G4/5
Swiss Rack Locomotive

**European Gas**

European Railbus

**European Diesel & Electric**

Class 66
DB/BR Class 218
DB VT 11.5 TEE
ABe 4/4
Ge 4/4 I
Ge 4/4 II
Ge 4/4 III
Ge 6/6 Crocodile
Electric Rack Loco

**Gas, Electric & Others**

Box Cab Electric
Cable Car
City Streetcar
Desire Streetcar
Doodlebug
Galloping Goose
GG1
RDC
Rotary Snowplow
Special Effects
Speeder
Trolley

May 2017

- 11 -
<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>824-023</td>
<td>8 Ω, 23mm Square, 4 mounting ears, 1W <strong>NON-STOCK</strong></td>
<td>$10.25</td>
</tr>
<tr>
<td>824-036</td>
<td>8 Ω, 36mm Square, 4 mounting ears, 2W</td>
<td>$10.25</td>
</tr>
<tr>
<td>824-400</td>
<td>8 Ω, 28.5mm x 40mm (1.12”” x 1.57””), Oval, 4 mounting ears, 1W RMS</td>
<td>$12.25</td>
</tr>
<tr>
<td>824-041</td>
<td>8 Ω, 41mm Square, 4 mounting ears, 2W <strong>NON-STOCK</strong></td>
<td>$12.25</td>
</tr>
<tr>
<td>820-500</td>
<td>8 Ω, 2” Round, no ears, 2W</td>
<td>$10.25</td>
</tr>
<tr>
<td>820-570</td>
<td>8 Ω, 2.25” Round, no ears, 3W</td>
<td>$10.25</td>
</tr>
<tr>
<td>822-660</td>
<td>8 Ω, 824-660 modified to remove 2 mounting ears, for original production Bachmann Climax</td>
<td>$12.65</td>
</tr>
<tr>
<td>824-660</td>
<td>8 Ω, 2.5” Square, 4 mounting ears, 3W RMS</td>
<td>$12.75</td>
</tr>
<tr>
<td>824-710</td>
<td>8 Ω, 71mm x 41mm (1.61”” x 2.79””) Oval, 4 mounting ears, 4W RMS</td>
<td>$11.05</td>
</tr>
<tr>
<td>820-770</td>
<td>8 Ω, 3” Round, no mounting ears, low profile.</td>
<td>$12.05</td>
</tr>
<tr>
<td>820-771</td>
<td>6 Ω, 3” square, 4 mounting ears, standard profile.</td>
<td>$16.35</td>
</tr>
<tr>
<td>824-890</td>
<td>8 Ω, 3.5” Square, 4 mounting ears, 4W RMS</td>
<td>$16.75</td>
</tr>
<tr>
<td>824-905</td>
<td>8 Ω, 90mm x 50mm Oval, 4 mounting ears, Aristocraft Diesel direct replacement, 5W RMS</td>
<td>$16.35</td>
</tr>
<tr>
<td>824-102</td>
<td>8 Ω, 4” Square, 4 mounting ears, 4W RMS</td>
<td>$17.05</td>
</tr>
</tbody>
</table>

 Speakers noted as “**NON-STOCK**” are special order items. As such, these items are non-cancellable and non-returnable once the order has been confirmed by Phoenix Sound Systems.
# Batteries & Capacitors

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>7000-02</td>
<td>3.6V Rechargeable Ni-Cad Battery; 2K2</td>
<td>$10.00</td>
</tr>
<tr>
<td>7000-09</td>
<td>3.6V Rechargeable NiMH Battery; PB Series</td>
<td>$10.00</td>
</tr>
<tr>
<td>7000-96</td>
<td>6V Rechargeable Gel-Cell (SLA) Battery; Model 96/97</td>
<td>$15.80</td>
</tr>
<tr>
<td>7100-02</td>
<td>10 Farad, 3.6V Capacitor; 2K2</td>
<td>$35.00</td>
</tr>
<tr>
<td>7100-97</td>
<td>10 Farad, 7.5V Capacitor; Model 97</td>
<td>$45.20</td>
</tr>
<tr>
<td>7500-15</td>
<td>Dirty Track Filter Capacitor, Kit; P5</td>
<td>$15.00</td>
</tr>
<tr>
<td>7500-25</td>
<td>Dirty Track Filter Capacitor, Plug and Play; P5</td>
<td>$25.00</td>
</tr>
<tr>
<td>7800-15</td>
<td>Dirty Track Filter Capacitor, Kit; P8</td>
<td>$15.00</td>
</tr>
<tr>
<td>7800-25</td>
<td>Dirty Track Filter Capacitor, Plug and Play; P8</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

# Switches, Jacks & Cables

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6000-02</td>
<td>Computer Interface Jack, 2.5mm TRS, 2K2</td>
<td>$6.60</td>
</tr>
<tr>
<td>6000-05</td>
<td>Computer Interface Jack, 2.5mm TRS, P &amp; PB Series</td>
<td>$6.75</td>
</tr>
<tr>
<td>6000-55</td>
<td>Computer Interface Jack, 2.5mm TRS, P &amp; PB Series with CAN connection for P5T or Coupler Driver Board</td>
<td>$8.75</td>
</tr>
<tr>
<td>6001-02</td>
<td>Volume switch, pre-wired: PB Series, 2K2, Model 96/97; EACH</td>
<td>$5.50</td>
</tr>
<tr>
<td>6001-05</td>
<td>P5/P8 Connector C2: Volume switch &amp; Trigger leads</td>
<td>$6.00</td>
</tr>
<tr>
<td>6002-00</td>
<td>P5/P8 C1 Connector: Power/Speaker/DCC</td>
<td>$6.00</td>
</tr>
<tr>
<td>6002-08</td>
<td>BigSound™ P8 harness for Airwire Drop In Decoder</td>
<td>$6.00</td>
</tr>
<tr>
<td>6002-14</td>
<td>BigSound™ P14 C1 connector: DCC/Speaker</td>
<td>$5.00</td>
</tr>
<tr>
<td>6002-27</td>
<td>BigSound™ P8 harness for Airwire K-27/C-19 Plug In Decoder</td>
<td>$7.00</td>
</tr>
<tr>
<td>6020-02</td>
<td>Reed Switch for magnetic feature activation; EACH</td>
<td>$2.10</td>
</tr>
<tr>
<td>6005-00</td>
<td>On/Off switch: Model 96/97; EACH</td>
<td>$4.90</td>
</tr>
<tr>
<td>6005-97</td>
<td>DIP Switch: Model 97; EACH</td>
<td>$4.70</td>
</tr>
</tbody>
</table>
## Plugs

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6100-00</td>
<td>A-B polarized connectors; SET</td>
<td>$4.00</td>
</tr>
<tr>
<td>6200-02</td>
<td>Aristocraft power &amp; speaker connectors: 2K2; SET</td>
<td>$4.80</td>
</tr>
<tr>
<td>6010-02</td>
<td>3.6V Battery connector plug; EACH</td>
<td>$2.00</td>
</tr>
<tr>
<td>6604-02</td>
<td>LGB Streetcar motor switch and power connector; SET</td>
<td>$15.00</td>
</tr>
<tr>
<td>6613-02</td>
<td>LGB Genesis power connector</td>
<td>$2.00</td>
</tr>
<tr>
<td>6010-96</td>
<td>6V Pigtail connector: Model 96/97; EACH</td>
<td>$3.80</td>
</tr>
<tr>
<td>6011-02</td>
<td>3.6V battery extension cable; EACH</td>
<td>$3.80</td>
</tr>
<tr>
<td>6700-02</td>
<td>USA Trains diesel power connector; Each</td>
<td>$2.40</td>
</tr>
<tr>
<td>6030-02</td>
<td>RCA cord for 2K2 &amp; PB9 audio line level output</td>
<td>$4.00</td>
</tr>
<tr>
<td>6200-09</td>
<td>BigSound™ PB9 Aristocraft Power Connector</td>
<td>$2.00</td>
</tr>
<tr>
<td>6300-02</td>
<td>Bachmann Spectrum® power connector; SET</td>
<td>$2.40</td>
</tr>
</tbody>
</table>

## Miscellaneous

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1222-00</td>
<td>Computer Interface USB Unit; EACH (USB cable not included.)</td>
<td>$70.00</td>
</tr>
<tr>
<td>1222-01</td>
<td>USB Cable, A-B, 1 meter</td>
<td>$5.00</td>
</tr>
<tr>
<td>7200-97</td>
<td>BigBoost™; Each</td>
<td>$47.00</td>
</tr>
<tr>
<td>9700-97</td>
<td>Model 97 Sound Chips; SET</td>
<td>$45.00</td>
</tr>
<tr>
<td>6025-00</td>
<td>Neodymium (rare earth) Ni-Plated Permanent Magnets; 0.187” dia. X 0.060” ht; PAIR</td>
<td>$2.00</td>
</tr>
<tr>
<td>6090-97</td>
<td>Motor Interface Optocoupler; Model 97; EACH</td>
<td>$14.00</td>
</tr>
<tr>
<td>6060-00</td>
<td>Foam mounting squares (4); PKG</td>
<td>$0.40</td>
</tr>
<tr>
<td>6061-02</td>
<td>Shrink tubing for weatherproofing of boards: 3¾”; EACH</td>
<td>$2.00</td>
</tr>
</tbody>
</table>
Services

Phoenix Sound Systems, Inc. offers several services to our customers. These services fall into three general categories: Installation, Repair and Programming.

At Phoenix, we are willing to install the BigSound™ System for those who do not want, or may be unable, to perform the installation themselves. Simply contact Phoenix Sound to arrange a time frame or receive an estimate. We will even install your DCC decoder along with the Sound System if you would like. Our installers are experienced with a wide range of typical and atypical locomotive configurations and are adept at placing the system to maximize quality of sound reproduction and ease of access.

We acknowledge that the real world is a harsh and often unpredictable environment. In recognizing this, Phoenix Sound expects that some equipment may eventually need to be repaired, replaced or simply reconditioned a bit in order to maintain peak performance. We also know that you want this work to be done by highly skilled technicians. Who would be better suited to return your equipment to prime working condition that those who designed and built it in the first place? The answer is obviously, no one. Please feel free to contact Phoenix Sound Systems to arrange for any repairs or diagnostic services you may require with any of the BigSound™ systems: Model 96, Model 97, 2K2 or P5. We are here to support your enjoyment.

The Computer Interface allows the end-user to change the sound of their locomotive with ease in a few minutes. However, this interface is not compatible with our Model 96/97 systems, due to substantial changes in design and memory storage. To accommodate our customers, Phoenix offers (re)programming services for the chip sets which are used with the Model 96/97 sound boards. We will continue to offer the programming service, as well as replacement chip sets, as long as it is feasible. Phoenix is also willing and able to alter the configuration of your newer systems to match your tastes.