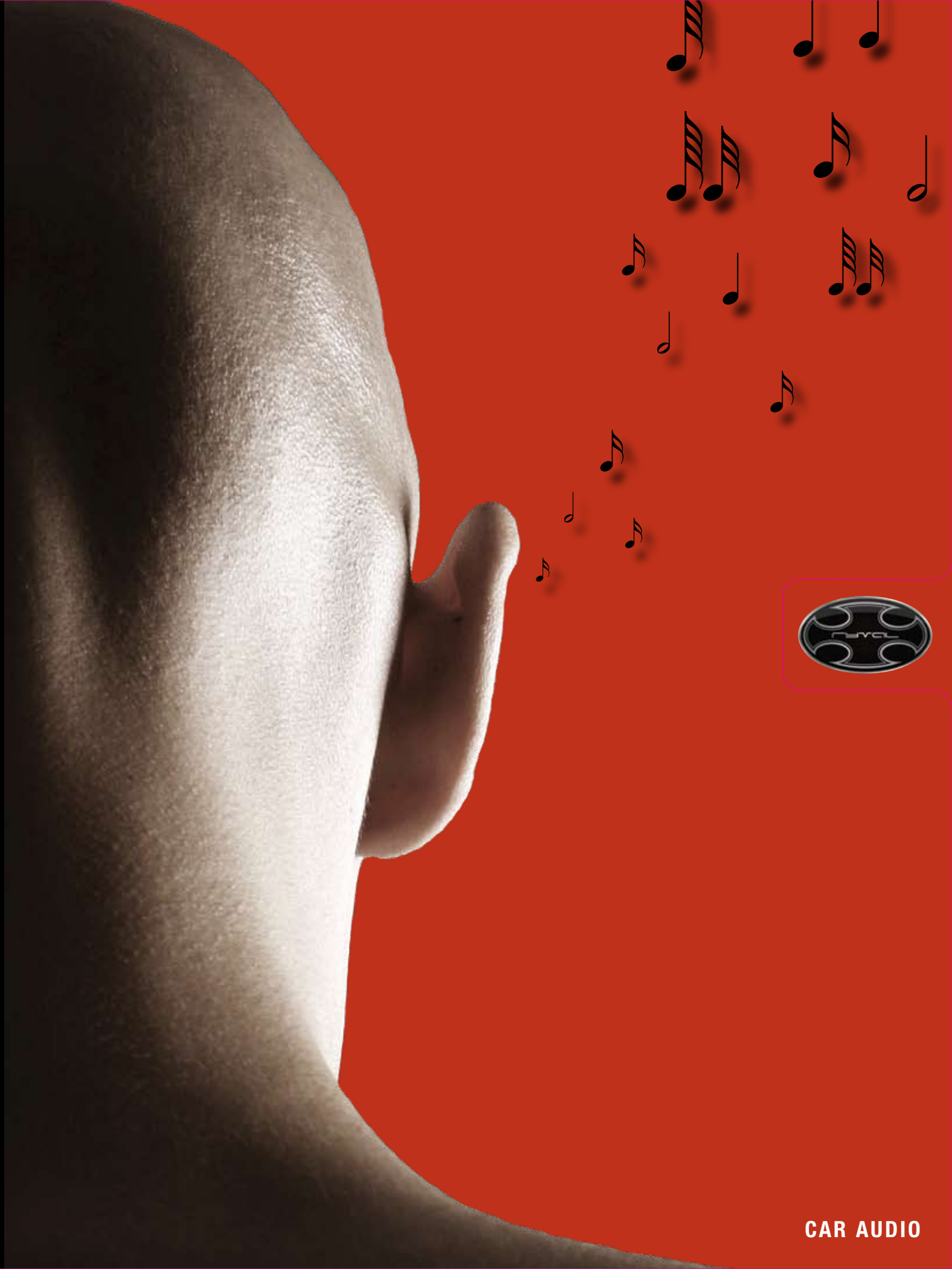
PHOENIXGOLD



CAR AUDIO

THE DIFFERENCE INSIDE THE DESIGN

Anyone can start an audio company, even without a single audio engineer. But no matter what the packaging says or how great the equipment looks, the interior of your amp and speakers makes them what they are. Phoenix Gold products are designed by our own in-house audio engineers — who spend months in product development, working out minute design details that you could never see from the outside, but make a huge difference in performance and sound quality. Take a look at our amps and speakers pages to find out more about what that means.

IN 1954, A 19-YEAR-OLD MUSICIAN PLAYED A SHOW IN NASHVILLE, TENNESSEE. AFTERWARDS A MAN WHO'D SEEN THE PERFORMANCE TOLD HIM, "YOU AIN'T GOING NOWHERE, SON. YOU MAY AS WELL STICK TO DRIVING A TRUCK."

We're telling you this story for two reasons. One: We're glad Elvis didn't listen to that guy. And two: If you take everything everyone says to heart, you'll never find greatness.

What does any of this have to do with our sound systems? Well, they're both about music, of course. Sound engineering for car audio is all about making music sound great, and we've been doing it for over 20 years. If we had to say we had one, sole purpose for doing what we do, it would be to make equipment that plays music the way it deserves to be played. But it's also a warning of sorts: when you get an audio system, you have the opportunity to make your own sound. And there are a lot of messages you'll get in this industry—from amp stats that are missing to unbelievable promises for "power," right along with a lot of distortion—that'll stand in your way of finding personal greatness.

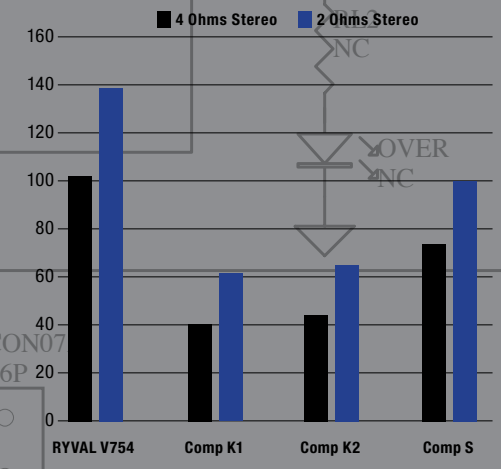
Of course, that being said, we can save you a lot of time and prove to you that we sell the best performing line on the market in this price range. An independent testing company proved it. (Take a look at the chart below.) For the money you spend on Ryval, you'll get cleaner sound, less distortion, and better power supply noise rejection than any other comparatively priced brand.

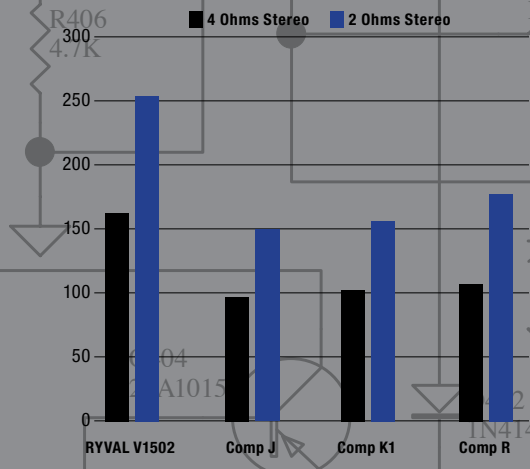
Compare. Learn as much as you can. Question everything. Then create your own sound.

SOUND BITE

PROVEN POWER

RYVAL AMPS OUT-PERFORM COMPETITORS IN AN INDEPENDENT TEST





POWER + PERFORMANCE. WE'VE ENGINEERED RYVAL AMPS TO EXCEL IN BOTH OUTPUT AND POWER SUPPLY. HERE'S HOW:

OUTSTANDING OUTPUT

The output stage acts like a car's transmission, converting the electrical power supplied by the amp into a usable force. A better output device supplies more current, producing a cleaner, more accurate signal. Ryval uses Darlington output drive circuitry with complementary 100 watt bipolar high-fidelity audio transistors, resulting in improved amp performance with low impedance loads. The most robust power amps in the world use bipolars—and so do we.

STRONG POWER SUPPLY

If the output stage is the transmission, then the power supply is the motor—taking the voltage from your battery, alternating the current, and running it through a step-up transformer until it's more than tripled. The Ryval's power supply is well protected, reliable, and with low loss (8 milliohm, 110 amp, 200 watt FETs*) for more efficient conversion, designed to ensure the amp reaches true power.
(*Field Effect Transistor)

REDUCED DISTORTION

You'll hear a lot of talk about harmonic distortion, but odd order harmonic distortion is what really compromises your sound. The Ryval amp features dual differential topology and a symmetrical voltage drive stage, designed to improve power supply noise rejection and reduce distortion on all levels. It costs us more to build an amp this way, but it makes for better sound quality.

TORTURE TESTED

Our equipment has to perform in any environment. So we've devised methods of quality assurance which consist of putting our amps and speakers through conditions we couldn't survive ourselves. When they can run for two weeks at full power 24/7 in an environmental chamber cycled from 14 degrees to 131 degrees Fahrenheit, survive shock testing, brutal vibrations and a battery of endurance testing, only then do they get our stamp of approval.

TRICKS OF THE TRADE

SOUND BITE

QUALITY PERFORMANCE? HERE'S WHAT SOUND SPECS ARE (OR AREN'T) TELLING YOU

POWER HANDLING: RMS VS MAX

This testing option will tell you whether the specs you're looking at will really get you the power they promise. RMS, or Root Mean Square, means that the power was tested at a continuous level—one that your system could sustain. MAX is the number obtained by running the system to the highest possible capacity—something that no system could maintain.

CEA METHOD

CEA—the Consumer Electronics Association—sets standards for performance testing. This tells you that the numbers listed CEA were obtained with reasonable-use testing practices.

THD (TOTAL HARMONIC DISTORTION) PERCENTAGE

Audio companies spend a lot of money to market their products (we're doing it right now). So if they're NOT mentioning a particular number in testing, it probably means they don't want you to know what it is. Most people can't hear THD at less than 1%. But some tests provide performance numbers with a THD so high you'd never listen to it—they just don't list the THD.

MONOBLOCK

MODEL: V8001

MAX POWER:
4Ω: 1200W x 1
2Ω: 1600W x 1

CONTINUOUS (RMS) POWER*:
4Ω: 600W x 1
2Ω: 800W x 1

FREQUENCY RESPONSE: 10Hz-300Hz

SIGNAL TO NOISE RATIO (1% THD+N): >90dBA

FEATURES:

Lowpass Level (LPL) Control Port
Efficient "Class D" Design
12dB Bass Boost@50Hz
Built-in Variable 12dB Lowpass Crossover
Auxiliary Outputs
Speaker Level Inputs
Remote Monitoring Display (RMD) Port

4-CHANNEL

MODEL: V754

MAX POWER:
4Ω stereo: 150W x 4
2Ω stereo: 250W x 4

CONTINUOUS (RMS) POWER*:
4Ω stereo: 75W x 4
2Ω stereo: 120W x 4

FREQUENCY RESPONSE: 20Hz-20kHz

SIGNAL TO NOISE RATIO (1% THD+N): >100dBA

FEATURES:

Built-in Variable 12dB Lowpass Crossover
100Hz 12dB per Octave Fixed Highpass Crossover
Auxiliary Outputs
Speaker Level Inputs
Remote Monitoring Display (RMD) Port
3-Position Switch for Lowpass, Highpass or Bypass

2-CHANNEL

MODEL: V752

MAX POWER:
4Ω stereo: 150W x 2
2Ω stereo: 240W x 2

CONTINUOUS (RMS) POWER*:
4Ω stereo: 75W x 2
2Ω stereo: 120W x 2

MODEL: V1502

MAX POWER:
4Ω stereo: 300W x 2
2Ω stereo: 450W x 2

CONTINUOUS (RMS) POWER*:
4Ω stereo: 150W x 2
2Ω stereo: 225W x 2

FEATURES:

Built-in Variable 12dB Lowpass Crossover
100Hz 12dB per Octave Fixed Highpass Crossover
Auxiliary Outputs
Speaker Level Inputs
Remote Monitoring Display (RMD) Port
3-Position Switch for Lowpass, Highpass or Bypass

COMMON SPECS:

FREQUENCY RESPONSE: 20Hz-20kHz

SIGNAL TO NOISE RATIO (1% THD+N): >100dBA

*(14.4VDC and 1% THD+N CEA-2006 Method)

BRINGING MOVE TO THE MUSIC. ONCE YOUR AMP POWERS UP THE SIGNAL, THE SUBWOOFER NEEDS TO TRANSFORM THAT SIGNAL INTO WHAT YOU HEAR. WE'VE DESIGNED OUR SUBS TO PLAY LOUDER, STRONGER, AND LONGER THAN ANY OTHER COMPARABLY PRICED WOOFER ON THE MARKET—WITH A MAX POWER HANDLING OF 4X CONTINUOUS RATING.

THE CONEX SPIDER

The amp's electrical pulse moves the subs, and the speaker needs inner tension to hold it in place. We've used a material called Conex, which has an excellent shape memory, returning to its original form better than cloth or other commonly used materials.

VENTING

We've built a venting system into the speakers for better cooling—which leads to less distortion and a longer life.

REINFORCED SPEAKER LEADS

Metal gets brittle as it ages and can become weak with heavy use. We've specially wrapped our subwoofer leads so they won't be as prone to breaking over time.

CONE DAMPING

A poorly damped speaker cone will deform and ring. We use a special laminate-treated paper cone that has exceptional damping qualities to more accurately reproduce the music.

THE FINISHING TOUCH

Coaxials and components need to be able to perform at the same level as the amps and subs. With a laminate-treated paper cone, balanced drive tweeters, and UV protection, our coaxials and components are designed to work as great as they look.

SMART SETUP

SOUND BITE

DIVIDE TO CONQUER

The way you install your system goes a long way towards creating the best sound. This example uses a two amp set-up, with a monoblock directing signals to the subs, and a 4-channel in charge of left, right, rear, and front signals. Crossovers separate sound frequencies and direct them to the component set. This division separates the sound efficiently — making clear, true, powerful music.

COAXIALS

MODEL: V690 (6X9 in. Coax)
V570 (5X7 in. Coax)
V460 (4X6 in. Coax)

POWER HANDLING (RMS/PEAK): 50W/200W

FREQUENCY RESPONSE:
50Hz-20kHz (V690)
70Hz-20kHz (V570)
120Hz-20kHz (V460)

SENSITIVITY 2.83V/1m:
89dB (V690)
91dB (V570 and V460)

MODEL: V6.5 (6.5 in. Coax)
V6.0 (6 in. Coax)
V5.0 (5.25 in. Coax)
V4.0 (4 in. Coax)

POWER HANDLING (RMS/PEAK):
50W/200W (V6.5-V6.0-V5.0)
35W/140W (V4.0)

FREQUENCY RESPONSE:
75Hz-20kHz (V6.5)
90Hz-20kHz (V6.0)
100Hz-20kHz (V5.0)
120Hz-20kHz (V4.0)

SENSITIVITY 2.83V/1m:
92dB (V6.5-V5.0-V4.0)
90dB (V6.0)

FEATURES:

Laminate-treated cone with excellent stiffness to weight ratio and superior damping qualities

19mm balanced drive tweeter for excellent reproduction of high frequencies

High excursion triple layer UV treated black foam surround for long-term reliability

High-temperature lightweight polymide voice coil structure for increased sensitivity

Rigid powder-coated steel frame CAD designed for precise motor alignment

COMMON SPECS:

IMPEDANCE: 4Ω

SUBWOOFERS

MODEL: V12S, V12D (12 in. Subwoofer*)

POWER HANDLING (RMS/PEAK): 150W/600W

IMPEDANCE: 4Ω

FREQUENCY RESPONSE: 25Hz-250Hz

SENSITIVITY 2.83V/1m:
90dB (V12S)
93dB (V12D-parallel)

MODEL: V10S, V10D (10 in. Subwoofer*)

POWER HANDLING (RMS/PEAK): 150W/600W

IMPEDANCE: 4Ω

FREQUENCY RESPONSE: 27Hz-300Hz

SENSITIVITY 2.83V/1m:
91dB (V10S)
94dB (V10D-parallel)

FEATURES:

CAE/CAD optimized for high efficiency and clarity of sound reproduction

Laminate-treated cone with excellent stiffness to weight ratio and superior damping qualities

High excursion triple layer UV treated black foam surround for long-term reliability

Rigid powder-coated steel frame CAD designed for precise motor alignment

High-temperature lightweight polymide voice coil structure for increased sensitivity

CAD optimized magnet/motor structure for efficiency and clarity

*(Available in single or dual voice coil)

COMPONENT SETS

MODEL: V65C (6.5 in. Comp. Set)

POWER HANDLING (RMS/PEAK): 50W/200W

IMPEDANCE: 4Ω

FREQUENCY RESPONSE: 65Hz-20kHz

SENSITIVITY 2.83V/1m: 91dB

MODEL: V5C (5.25 in. Comp. Set)

POWER HANDLING (RMS/PEAK): 50W/200W

IMPEDANCE: 4Ω

FREQUENCY RESPONSE: 80Hz-20kHz

SENSITIVITY 2.83V/1m: 91dB

FEATURES:

Set includes 2 mid-woofers, 2 tweeters, and 2 crossovers

Laminate-treated cone with excellent stiffness to weight ratio and superior damping qualities

19mm balanced drive tweeter with excellent reproduction of high frequencies

12dB/octave external CAD/CAE crossovers

High excursion triple layer UV treated black foam surround for long-term reliability

High-temperature lightweight polymide voice coil structure for increased sensitivity

Rigid powder-coated steel frame CAD designed for precise motor alignment

CRAFTING A SYSTEM THAT'S RIGHT FOR YOU

Installation is the final step in creating the perfect sound system. It can also be the weakest link, because a system won't perform to its full potential without high quality connectivity. Our accessories are designed to meet the same level of excellence as all Phoenix Gold products.

PHOENIX GOLD EXTENDED WARRANTY

Have your products installed by a certified Phoenix Gold dealer and get a two-year extended warranty. This increases to a three-year warranty if they use a Phoenix Gold amplifier installation kit—ask your dealer for more information.

AMPLIFIER INSTALLATION KITS

AKIT42 - 4 GAUGE: COMPLETE KIT

20ft. of RUBY or BLUE 4 gauge power cable
2ft. of 4 gauge ground cable
Glass style fuse holder
17ft. RCA cable
32ft. of 16 gauge speaker wire
15ft. of 18 gauge remote turn-on wire
Ring terminals
Terminal spades
60A glass fuse
Assorted hardware

AKIT82 - 8 GAUGE: COMPLETE KIT

20ft. of RUBY or BLUE 8 gauge power cable
2ft. of 8 gauge ground cable
Glass style fuse holder
17ft. RCA cable
32ft. of 16 gauge speaker wire
15ft. of 18 gauge remote turn-on wire
Ring terminals
Terminal spades
30A glass fuse
Assorted hardware

FUSEBLOCKS

MBB blocks utilize PGU-style glass fuses
Flexible for multiple amplifier installations
Multi-bussbar fuseblock
Satin finish
Use with PGU series fuses

MBB.501

Three 4 gauge inputs to four fusible 8 gauge outputs

MBB.502

One 4 gauge input to two fusible 8 gauge outputs

DISTRIBUTION BLOCKS

Multiple styles allow for numerous installations
Rated to 175A
Satin finish

PDB.501

One 4 gauge input to four 8 gauge outputs

www.phoenixgold.com

PHOENIXGOLD
THERE IS A DIFFERENCE

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