



# PR<sup>®</sup>12 D

Powered bi-amplified two-way speaker system

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Operating  
Manual





Intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

**CAUTION:** Risk of electrical shock — DO NOT OPEN!

**CAUTION:** To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

**WARNING:** To prevent electrical shock or fire hazard, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus. Before using this apparatus, read the operating guide for further warnings.



Este símbolo tiene el propósito, de alertar al usuario de la presencia de “(voltaje) peligroso” sin aislamiento dentro de la caja del producto y que puede tener una magnitud suficiente como para constituir riesgo de descarga eléctrica.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la información que viene con el producto.

**PRECAUCION:** Riesgo de descarga eléctrica ¡NO ABRIR!

**PRECAUCION:** Para disminuir el riesgo de descarga eléctrica, no abra la cubierta. No hay piezas útiles dentro. Deje todo mantenimiento en manos del personal técnico cualificado.

**ADVERTENCIA:** Para prevenir choque eléctrico o riesgo de incendios, este aparato no se debe exponer a la lluvia o a la humedad. Los objetos llenos de líquidos, como los floreros, no se deben colocar encima de este aparato. Antes de usar este aparato, lea la guía de funcionamiento para otras advertencias.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur la présence d'une tension dangereuse pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans le paragraphe signalé.

**ATTENTION:** Risques de choc électrique — NE PAS OUVRIR!

**ATTENTION:** Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confiez l'entretien et la réparation de l'appareil à un réparateur Peavey agréé.

**AVIS:** Dans le but de réduire les risques d'incendie ou de décharge électrique, cet appareil ne doit pas être exposé à la pluie ou à l'humidité et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé sur celui-ci. Avant d'utiliser de cet appareil, lisez attentivement le guide fonctionnant pour avertissements supplémentaires.



Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

**VORSICHT:** Risiko — Elektrischer Schlag! Nicht öffnen!

**VORSICHT:** Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden könnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

**WARNUNG:** Um elektrischen Schlag oder Brandgefahr zu verhindern, sollte dieser Apparat nicht Regen oder Feuchtigkeit ausgesetzt werden und Gegenstände mit Flüssigkeiten gefüllt, wie Vasen, nicht auf diesen Apparat gesetzt werden. Bevor dieser Apparat verwendet wird, lesen Sie bitte den Funktionsführer für weitere Warnungen.

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** When using electrical products, basic cautions should always be followed, including the following:



1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding plug. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13.  Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Never break off the ground pin. Write for our free booklet "Shock Hazard and Grounding." Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. Note for UK only: If the colors of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
  - a) The wire that is colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
  - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
  - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
19. The on/off switch in this unit does not break both sides of the primary mains. Hazardous energy can be present inside the chassis when the on/off switch is in the off position. The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
20. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

| Duration Per Day In Hours | Sound Level dBA, Slow Response |
|---------------------------|--------------------------------|
| 8                         | 90                             |
| 6                         | 92                             |
| 4                         | 95                             |
| 3                         | 97                             |
| 2                         | 100                            |
| 1 1/2                     | 102                            |
| 1                         | 105                            |
| 1/2                       | 110                            |
| 1/4 or less               | 115                            |

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

**SAVE THESE INSTRUCTIONS!**

## PR<sup>®</sup> 12D

Thank you for purchasing the class D powered PR<sup>®</sup>12D. The PR 12D features a bi-amped power section that provides 150 watts power for the woofer and 50 watts power for the compression driver tweeter, both with Peavey-exclusive DDT<sup>™</sup> compression. Featuring a 12" heavy duty woofer and the RX<sup>™</sup>14 compression driver, the PR 12D provides an XLR and 1/4" phone combo jack, with mic/line switchable level, balanced input with volume control.

### FEATURES

- Bi-amplified Class D powered system with 200 watt total power
- Both power amps have DDT compression
- 12" heavy duty woofer with 2.375" voice coil and Neodymium Magnet
- Woofer servo for reduced woofer distortion
- Automatic equal loudness (Fletcher-Munson)
- RX 14 1.4" titanium compression driver
- Peak SPL up to 120 dB with music!
- Combo jack with 1/4" TRS & female XLR mic- or line-level balanced input
- Two 1/4" phone jacks for link-out/direct-in capability
- Molded-in horn with exceptionally smooth response and pattern control
- Top and sides handgrips
- Pole mount molded-in
- Reduced weight
- Top and bottom flying point inserts

### DESCRIPTION

The Peavey PR 12D is a powered, bi-amplified, two-way speaker system engineered to provide very high levels of performance in a compact powered loudspeaker. The PR 12D is capable of up to 120 dB peak SPL. The enclosure utilizes tough polypropylene in an injection-molded plastic trapezoidal form, with a coated steel grille to offer an attractive yet-durable powered speaker system.

This two-way powered system is comprised of a 150 W class D power amplifier driving a 12" heavy duty woofer. The RX<sup>™</sup>14 compression driver is driven by a 50 W class D power amplifier and features a 1.4" titanium diaphragm coupled to an extremely smooth and well-controlled constant directivity horn (with a coverage pattern of 90° by 40°) that is molded integrally into the enclosure.

A balanced input to the preamp/EQ electronics consists of one combo female XLR and 1/4" TRS phone jack. It is switchable between mic-level and line-level sensitivity. Two 1/4" phone jacks are provided for link-out / direct-in capability. The link-out is post-level and pre-crossover. While the direct-in is a direct pre-crossover input.

A woofer servo senses back-EMF from the woofer voice coil that is not a result of the drive signal, and subtracts the error so that the woofer cone follows the drive waveform precisely.

Constant Loudness (Fletcher-Munson) circuit for accenuating bass and treble at low listening volume levels.

The power amplifiers providing the bi-amplification are low-distortion units providing 150 W continuous RMS into the nominal 8 ohm load of the woofer, and a 50 W continuous RMS into the nominal 8 ohm load of the tweeter. They were selected for their reliability and superb musical performance capability. Both amplifiers feature our patented DDT<sup>™</sup> compression, which virtually eliminates audible power amplifier clipping.

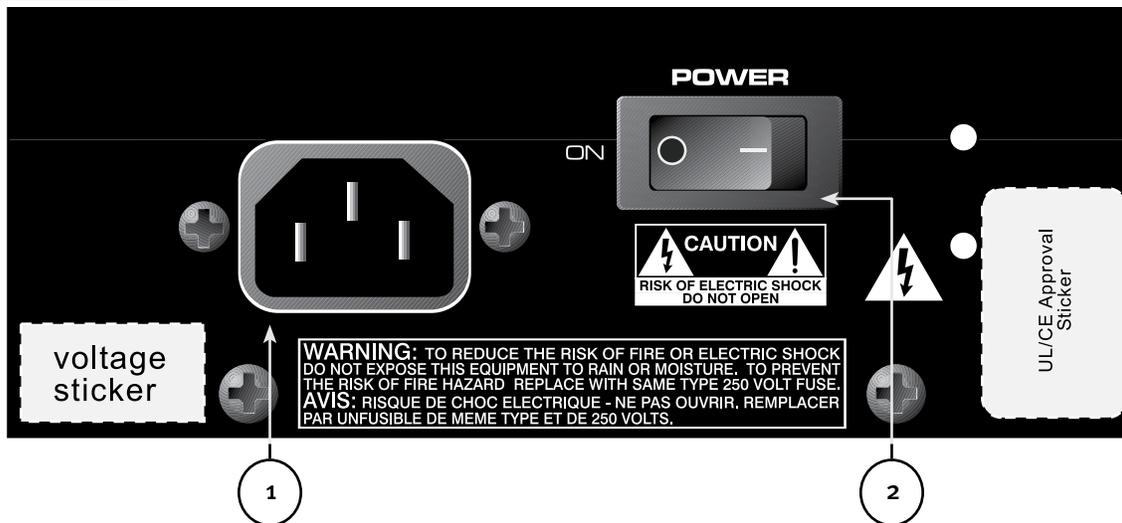
A molded-in handle provides ease of transport, while multiple mounting points (top and bottom) for the Peavey Versamount<sup>™</sup> allow maximum utility.

## APPLICATIONS

The Peavey PR<sup>®</sup>12D has a variety of applications such as sound reinforcement, public address, side fill system, karaoke or musical playback. With the optional monitor stand kit, the Peavey PR 12D makes an excellent stage monitor.

A typical signal source for the line-level inputs of the Peavey PR 12D would be a sound reinforcement mixing console (mixer) or the output from a CD player, iPod player or tape deck. A dynamic microphone can be connected and used as well.

## REAR PANEL



### FUSE

The unit is AC power line fuse protected from overloads and fault conditions with a fast-blow 3.15 Amp fuse. This fuse is located within the cap of the enclosure. If the fuse fails, **THE FUSE MUST BE REPLACED WITH THE SAME TYPE AND VALUE IN ORDER TO AVOID DAMAGE TO THE EQUIPMENT AND TO PREVENT VOIDING THE WARRANTY.** If the unit blows a fuse, it should be taken to a qualified service center for repair.

### IEC POWER CORD CONNECTION

This receptacle is for the IEC line cord (supplied) that provides AC power to the unit.

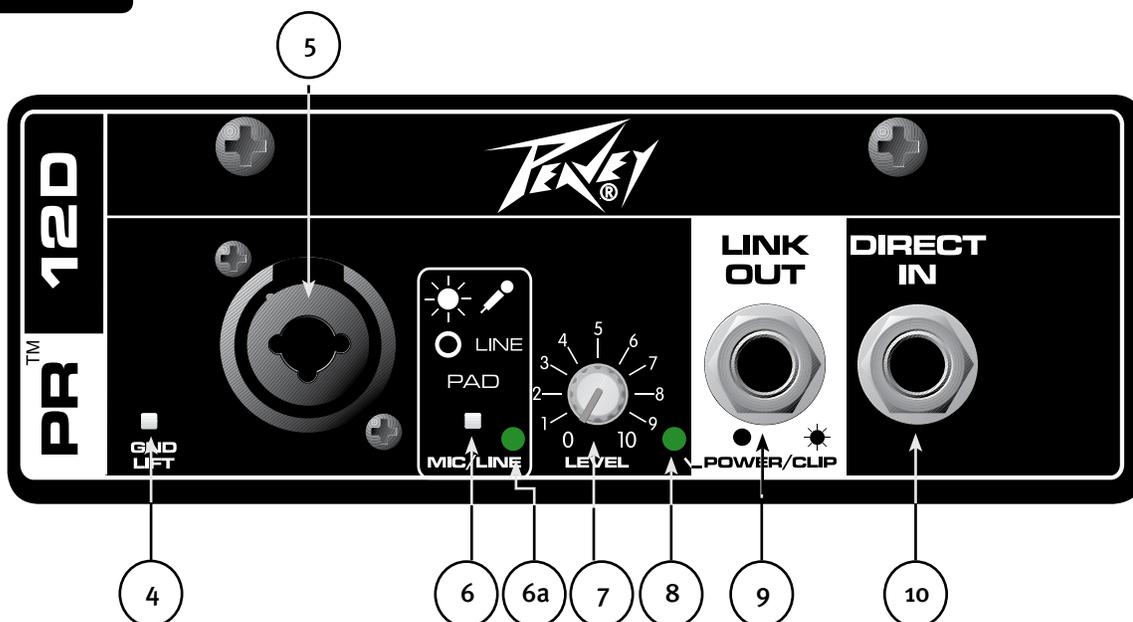
It is very important that you ensure the PR 12D has the proper AC line voltage supplied. You can find the proper voltage for your PR 12D printed next to the IEC line (power) cord on the rear panel of the unit. Please read this guide carefully to ensure your personal safety as well as the safety of your equipment.

*Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent the risk of shock or fire hazard, always be sure that the mixer and all other associated equipment are properly grounded.*

### ON-OFF SWITCH

This rocker switch supplies AC power to the PR 12D when switched to the ON position.

## FRONT PANEL



### 4 GROUND LIFT

Switches the XLR (5) PIN 1 from direct contact with ground in the event that hum occurs.



### 5 PRIMARY INPUT (CHANNEL 1)

The primary input is switchable between line-level and mic-level input. The line-level input is of the medium impedance balanced type, and when switched to mic-level (6) it is of a typical low-Z mic input impedance. Jack (5) is a combo female XLR and 1/4" TRS connector.

### 6 PAD

Switches the sensitivity of Channel 1 from line-level to mic-level sensitivity. Pushed in, the sensitivity is set for line-level input signals. When the switch is not pushed in, the sensitivity is increased by 30 dB so it is suitable for mic-level signals.

### 6a PAD STATUS LED

Illuminates green when PAD switch (6) is in line-level mode, and yellow when the PAD is in mic-level mode.

### 7 VOLUME

Controls the gain (level) of the Primary Input (5), Channel 1, of the powered speaker system. It is used to directly set the system output level for the Channel 1 input signal.

### 8 POWER/CLIP LED

Illuminates GREEN when the electronics receive power (when the Power switch (3) is On). Illuminates RED when amplifier clipping is occurring or the unit has tripped the thermal protection system.

### 9 LINK OUT

Link Out is a 1/4" post-level send intended for the use of linking multiple PR 12D's in a line. In that case, the Link Out would connect to the 1/4" connections of the MIC/LINE (5) input of the next PR 12D in the line of PR speakers. All of the PR 12D's in the line should have their respective PADs (6) engaged and Level control (7) set to mid-position. The first PR can use it's level control to set the volume for all of the PR speakers in the line.

### 10 DIRECT IN

Direct In is a 1/4" line input that can be used to drive the PR 12D directly from a mixer, or other line level source. This input jack has switching contacts that disconnects the PR 12D pre-amp, therefore the level control on the PR 12D does not affect the volume of the speaker.

## CAUTIONS



The unit must be disconnected from the AC power source before any work is done on it. Refer all servicing to qualified service personnel.

The heat sink on the back plate can become hot to the touch. Do not block or cover the heat sink from ventilation.

Be sure to keep the microphone away from the front of the speaker after switching the mic sensitivity pad to the OUT position and while setting the microphone level, or very loud feedback will occur! Damage to the system is likely if this occurs!



DO NOT connect the inputs of the PR® 12D to the output of a power amplifier. The inputs are meant to be driven from a line-level strength signal.

DO NOT remove the protective metal grille.

**WARNING:** The PR® 12D is very efficient and powerful! This sound system can permanently damage hearing! Use extreme care setting the overall maximum loudness!

The apparent sound level of the PR® 12D can be deceiving due to its clear, clean sound output. The lack of distortion or obvious distress can make the sound level seem much lower than it actually is. This system is capable of SPL in excess of 120 dB at 1 M from the speaker!

## FLYING THE PR® 12D

**CAUTION:** THE SUSPENDING OR FLYING OF THE PEAVEY PR® 12D MUST BE DONE BY A CERTIFIED STRUCTURAL ENGINEER.

### IMPORTANT SAFETY INFORMATION FOR MOUNTING THE PEAVEY PR® 12D SPEAKER SYSTEM

**CAUTION:** Before attempting to suspend this model of speaker, consult a certified structural engineer. Speaker can fall due to improper suspension, resulting in serious injury and property damage. Other enclosures must not be suspended below one, nor should additional weight be suspended from one of these units. Use only the correct mating hardware. All associated rigging is the responsibility of others.

Always use all four inserts of a given group as a set, NEVER use just one insert to fly a cabinet! The four insert groupings are a top group of four and a bottom group of four. Some models also have a group of four on the rear plane of the cabinet.

Maximum enclosure angle from vertical hang: 30°

Always use a suitable safety chain or wire rope, looped through the top handle, and firmly attached to a suitable structural member as indicated by a certified structural engineer.

The recommended range of torque for the mounting bolt is 3 to 3-1/2 lb./feet of torque. DO NOT OVERTIGHTEN! If an insert spins, it has been damaged and the cabinet cannot be flown!

Never transport the cabinet while mounted on an array bracket or other mounting bracket, as this may unduly stress the mounting inserts.

### WARNING! (NOTE TO STRUCTURAL ENGINEER)

For the PR® 12D, the thread insertion depth of the end of the mounting bolt should not be more than 5/16" past the surface of the cabinet.

If these thread insertion depths are exceeded, then the inserts may be damaged or unseated from the cabinet, severely compromising the mounting integrity of the cabinet!

The correct mounting bolt diameter and threads per inch are: 1/4" X 20. Use of a grade five-bolt is recommended.

## CONNECTING AC POWER TO THE PR®12D

The PR 12D comes with an 8-foot IEC connection AC power cord. If you are using an extension cord or power strip with this powered speaker, make sure it is of good quality and of a sufficient current capacity to maintain safety and maximize the power output capability of the PR 12D. Do not connect any other device to the same extension cord that the PR 12D is connected to.

## SPECIAL NOTE FOR PERMANENT INSTALLATION

When installing the PR 12D, AC power runs will be used and a certified electrician should be consulted to be sure that all AC wiring complies with local codes and regulations. It is also advisable to use a cable clip properly affixed to the cabinet to strain relief the IEC power cord connected to the amplifier module at (2) so the power cord cannot be pulled out or vibrate loose.

## USE OF PR 12D WITH A SUBWOOFER

The built-in pole adapter allows use with the Peavey SP Subcompact 18X and the accessory pole that it is designed to use, Peavey part #00326540.

The pole used is 36-3/16" long and has a nominal diameter of 1-3/8".

## CONNECTING A SIGNAL TO THE PR 12D

There are a variety of ways to input a signal to the PR 12D.

The primary input (5) provides either a balanced mic- or line-level input, allowing the use of a 1/4" phone plug, either a standard single-ended (tip-sleeve) plug or a balanced TRS (ring-tip-sleeve) type plug OR a male XLR plug. Then there are two line-level unbalanced 1/4" phone jacks that can be mixed in with the primary input.

Do not connect cables to the jacks while the unit is ON and the Volume is turned up!

While a standard single-ended 1/4" phone plug-equipped cable will work well and the balanced input circuitry of the primary input (5) will provide some interference rejection, a balanced cable using either the balanced TRS 1/4" phone plug or the XLR plug will provide superior interference rejection and performance. Sometimes, with difficult interference problems, it will be helpful to lift the shield ground on a balanced cable at the PR 12D end only by using the ground lift switch (4). Check any input changes carefully, always turning the volume control down before plugging and unplugging cables.

Use of high quality, premium cables is recommended for the PR 12D, as these usually have better shielding and materials and will provide greater long-term reliability. It is usually a good idea to leave some slack at the input to the PR 12D and also to tape the cables down or run them under a cable guard to avoid anyone tripping over them or pulling the PR 12D over when stand mounted.

## VOLUME CONTROL ADJUSTMENT

The PR 12D is equipped with a volume control to facilitate use in many different applications. With the volume control adjusted fully clockwise, gain is at maximum and the input sensitivity is 0.375 V RMS for full-rated output. When driving the PR 12D from a mixer, it may be advantageous to reduce the input sensitivity by turning the volume control to the halfway point. The PR 12D will now more closely match a typical power amp.

If the mixing board indicates clipping of its output signals, then all of the PR 12P power capability is not being utilized cleanly. Clipping the signal before it gets to the PR 12D is not optimal. Reduce the mixer output level and turn up the volume control on the PR 12D.

The amplifiers in the PR 12D are equipped with DDT™ and an LED indicator to show that DDT™ has engaged. If the sound seems heavily compressed, check this indicator; if it is blinking RED more than occasionally, then the drive level from the mixer (or the volume control on the PR 12D) needs to be reduced.

When first turning on the sound system, switch on all upstream electronics first, then the PR® 12P with its volume control fully counterclockwise (all the way down). Begin checking levels with the mixer output

level controls all the way down, and bring them up slowly with the PR 12D volume control set to the desired setting (halfway up recommended to start).

### **MIC/LINE PAD ADJUSTMENT**

The mic/line pad (6) provides for the increased gain needed for microphone use into the primary input (5). Use a straightened paperclip or small screwdriver to reach through the hole in the rear panel where the recessed tab is to set its position. Set the Mic/Line Pad to “in,” or the white tab furthest from the panel, for line-level signal use and set it “out,” or closest to the panel, for mic-level use. The unit is shipped with the tab in the line-level position. It is recessed behind the panel so that the gain can not be inadvertently increased during transport or set-up.

Due to the 30 dB of extra gain that this switch provides, DO NOT leave it in the “out” position for line-level use! This will result in input-stage clipping of the PR 12D and cause unnecessary distortion.

### **TROUBLESHOOTING**

#### **NO OUTPUT AT ALL**

First, make sure the unit has AC power and is turned ON. Make sure the Power/Clip LED (4) is illuminated Green. If not, make certain the ON/OFF switch (3) is in the ON position and check the IEC power cord connection (2) by ensuring it is fully engaged and seated. Make certain the AC line cord is plugged into a working AC outlet. Finally, check the fuse (1). (See the Rear Panel: Fuse section, for safety instructions.)

Once assured your unit is getting AC power, check that the PR 12D is getting a signal. Temporarily disconnect the cable running to its inputs and connect it to some other device capable of reproducing the signal (i.e., a power amp and speaker). If this produces a signal, make sure that all Volume controls being used have been turned up to a satisfactory level (one-third to halfway).

If the PR 12D has been subjected to direct sunlight or excessive heat, the built-in thermal protection may have been triggered. The power/clip LED will be illuminated RED if this is the case. If so, turn off the PR 12D and let it cool for a sufficient amount of time.

If there is still no output, contact your authorized Peavey dealer or the Peavey International Service Center.

#### **HUM OR BUZZ**

If the PR<sup>®</sup>12D is producing a hum or buzz, this can be AC outlet related. Try plugging the PR 12D into a different AC outlet. Sometimes, if a different circuit (breaker) is used for the mixer and the PR 12D, it can cause hum problems.

Ensure that shielded cables have been used to route the signal to the PR 12Ds inputs. If speaker cables with 1/4" plugs are used as input cables instead of shielded cables, they will be prone to hum or buzz.

Hum may be ground loop related. It will be helpful to lift the shield ground on a balanced cable at the PR 12D end only by using the ground lift switch (4). Check any input changes carefully by first turning down the volume control, plugging and unplugging cables, or lifting the shield ground at the speaker end.

Check to make sure light dimmers are not on the same circuit as the PR 12D, the mixer or any source devices. If light dimmers are used, then it may be necessary to turn them full ON or full OFF to eliminate or reduce hum. This is a typical AC wiring/light dimmer interference problem, not a design flaw of the PR 12D. The third wire (ground plug) on the AC plug should NEVER be removed or broken off.

#### **DISTORTED OR FUZZY SOUND**

First, ensure the mixer (signal source) is not clipping or being overdriven. Make sure the volume control/s (7) and (9) on the PR 12D have not been set too low.

Check that the input plugs are fully seated in the input jacks (5) and (8) on the rear panel of the PR 12D. Ensure that the proper MIC/LINE PAD setting is being used (6) for line-level signals, or that a power amp has not been plugged into one of the input jacks of the PR 12D.

If an extension cord is being used to provide the AC power to the unit, ensure that it is of sufficient current capacity and that it is not also being used to supply power to any other device.

The PR 12D has built-in EQ to extend and smooth the natural response of the speakers in the system. Bass boost and HF EQ have been applied and the system has a nominally flat response, so it should require little, if any, additional EQ. If excessive additional bass boost or HF boost have been added externally to the PR 12D, it could cause premature overload at high SPL. Reduce the amount of any external (mixer, rack) EQ and see if that clears up the distortion.

Finally, realize that even though the PR 12D is a powerful and high output unit, it does ultimately have limits, and it may need additional powered units (or a subwoofer) to provide enough sound output or coverage. In this case, try turning the mixer levels down a little to see if that clears things up.

If, after checking all the things listed to check and anything else you can think of to check safely, and the system still exhibits problems, carefully note all conditions and check with your Peavey dealer for advice.

## CARE AND MAINTENANCE

Your PR 12D is a sturdy and durable product and will provide years of reliable use if properly cared for. Use common sense and read the safety warnings to avoid hazardous operating conditions.

The unit must be disconnected from the AC power source before any work is done on it. Refer all servicing to qualified service personnel.

## SUNLIGHT/HEAT

Avoid prolonged exposure to direct sunlight, as this may cause the unit to overheat and thermally shut off. Excessively hot operating conditions can also cause a thermal shutdown.

Do not store in extremely hot or cold conditions or extremely high humidity. Always allow unit to come to room temperature before use.



## CLEANING

Never clean the PR 12D while plugged in or turned ON! When the unit has been fully disconnected from AC power sources, use a dry cloth to remove soil or other dirt. Never use strong solvents on the PR 12D, as they could damage the cabinet. Do not allow ANY fluids to drip inside the PR 12D.

## TOUCHUP

For an overall finish enhancement and protective coating, use gloves to apply a plastic finish protector, such as Armor-All® protectant, to the surface of the plastic cabinet only. Note that the cabinet will be slippery after these treatments; rub them down vigorously with a dry, lint-free cloth to minimize this.

## CHECK FOR SECURE HARDWARE

After the first few months of use and periodically thereafter, check the hardware of the PR®12D for tightness, including the rear panel screws and the screws that hold the baffle and rear cabinet together. The unit is subject to a great deal of vibration, and this could cause them to loosen with use.

## ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The powered loudspeaker system shall have a frequency response from 47 Hz to 20 kHz. The peak SPL with inaudible distortion shall reach 120 dB with music as a source, when measured at a distance of 1M and driven to full output capacity. The system shall utilize a 12" heavy duty woofer and an RX 14 compression driver tweeter. The nominal radiation pattern shall be 90° in the horizontal plane, and 40° in the vertical plane.

The powered, bi-amplified loudspeaker system shall have a group of medium impedance input connectors consisting of one combo female XLR and 1/4" TRS phone jack, and two 1/4" phone jacks, on the rear panel. A volume control will be located near each input jack. The combo female XLR and 1/4" TRS phone jack will have a gain adjust pad that provides for switching between line-level input signals, and mic-level input signals.

The system power amplifiers shall have an unfiltered frequency response of 10 Hz to 30 kHz which deviates no more than +0, -1 dB up to rated power, a damping factor greater than 100 @ 1 kHz into 8 ohms, hum and noise better than 90 dB below rated power, and THD and IMD of less than 0.1%. The woofer amplifier shall be capable of 150 W into a 8 ohm nominal load, and the tweeter amplifier shall be capable of 50 W output into a 8 ohm load, and both shall incorporate independent DDT™ compression.

The input signal shall be electronically divided into high frequencies and low frequencies by a staggered-pole third order slope line-level crossover at 2 kHz. The low frequencies shall be processed to provide bass boost, subsonic filtering and overall response shaping, and the high frequencies shall be equalized for constant directivity horn EQ- and response-shaping.

The enclosure shall be constructed of injection-molded polypropylene of 1/4" nominal thickness with a UL flame rating, and reinforcing ribs internally. A handgrip shall be molded-in on the top rear edge, and one on each side of the woofer.

A powder-coated metal grille shall be provided for woofer protection. The cabinet shall incorporate a pole mount for speaker stand use, four tall sturdy rubber feet for floor standing use, and four mounting point inserts on the top and bottom each for flying use.

The outside dimensions shall be: 23.69" tall by x 17.81" wide (10.00" in rear) by x 13.75" deep, and the weight shall be 28 lbs. Power requirements shall be: 100 Watts nominal, 100 & 120 VAC, 50/60 Hz Domestic and 220-240 VAC, 50/60 Hz (Export). The loudspeaker system shall be called a Peavey PR 12D.

# Peavey PR<sup>®</sup>12D

## SPECIFICATIONS

**ENCLOSURE:** Peavey PR 12D  
(domestic)

**FREQUENCY RESPONSE:**  
47 Hz to 20 kHz

**LOW FREQUENCY LIMIT (-3 dB POINT):**  
36 Hz

**USEABLE LOW FREQUENCY LIMIT (-10 dB POINT):**  
42 Hz

**INTERNAL POWER AMPLIFIERS (@120 VAC LINE):**  
Woofer - 150 Watts @ less than 0.1% distortion  
Tweeter - 70 Watts peak dynamic power  
50 Watts @ less than 0.1% distortion.

**NOMINAL SENSITIVITY (1W @1M, SWEPT SINE INPUT IN ANECHOIC ENVIRONMENT):**  
97 dB

**MAXIMUM SOUND PRESSURE LEVEL:**  
120 dB music peak

**NOMINAL RADIATION ANGLES:**  
90° horizontal by 40° vertical

**TRANSDUCER COMPLEMENT:**  
12" heavy duty woofer and RX<sup>™</sup> 14 1.4" titanium diaphragm compression driver tweeter

**BOX TUNING FREQUENCY (FBOX):**  
55 Hz

**ELECTROACOUSTIC CROSSOVER FREQUENCY:** 2,000 Hz

**CROSSOVER TYPE:**  
Internal Electronic two-way crossover with CD horn EQ, level matching, bass boost and subsonic filtering.

**CROSSOVER SLOPES:**  
18 dB/octave (third order) low pass, 18 dB/octave (third order) high pass, both with staggered poles and driver EQ. Unit has horn spatially aligned with woofer.

**ELECTRONIC INPUT IMPEDANCE (NOMINAL):** 10 k Ohms unbalanced, 20 k Ohms balanced line level, 2.4 k Ohms balanced mic level.

**INPUT CONNECTIONS:**  
One combo female XLR/ 1/4" phone jack providing balanced operation, with switch selectable mic or line level sensitivity. Also has two 1/4" phone jack line level unbalanced input and output.

**ENCLOSURE MATERIALS AND FINISH:**  
Injection-molded polypropylene of a nominal thickness of 1/4" with internal ribbing and bracing, and with textured finish. Molded material is black.

**MOUNTING:**  
Subwoofer pole-mounting via molded-in mount, flying via Versamount<sup>™</sup> 70 and four rubber feet for floor use.

**DIMENSIONS:**  
23.69" (60.2 cm) tall by 17.81" (45.2 cm) wide {10.00"/25.4 cm in rear} by 13.75" (34.9 cm) deep"

**OPTIONAL ACCESSORIES:**  
Impulse<sup>®</sup> 200 Floor Monitor Kit (FG# 00370480)

**NET WEIGHT:**  
28 lbs.

**ADDITIONAL REMARKS:**  
Also available as a passively crossed-over unit, the Peavey PR 12.

**ELECTRONICS AND AMPLIFIER SPECIFICATIONS:**

**ELECTRONIC INPUT IMPEDANCE (NOMINAL):** Primary balanced input: 20 k Ohms line level sensitivity selected, 2.4 k Ohms mic level sensitivity selected, 10 k Ohms unbalanced 1/4".

**MIC SWITCH SENSITIVITY INCREASE:**  
30 dB

**INFRASONIC FILTER PROTECTION:**  
36 dB/octave roll-off

Woofer servo that subtracts error so that the woofer cone follows the drive waveform precisely.

Constant Loudness (Fletcher-Muson) circuit for accenuating bass and treble at low listening volume levels.

**NOMINAL AMPLIFIER FREQUENCY RESPONSE:** +0, -1 dB from 10 Hz to 30 kHz

**HUM AND NOISE:**  
Greater than 90 dB below rated power

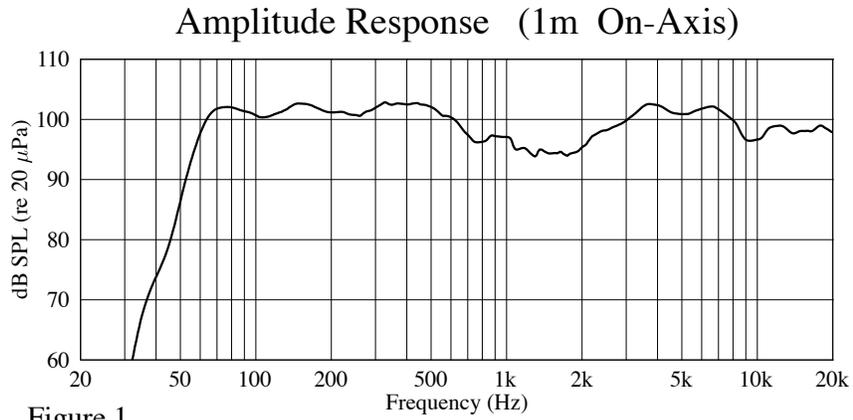
**DDT DYNAMIC RANGE:**  
Greater than 14 dB

**THD AND IM:**  
Typically less than 0.1 %

**DAMPING FACTOR:**  
Greater than 100 @ 1000 Hz, 8 Ohms

**POWER REQUIREMENTS OF PEAVEY PR<sup>™</sup>12P SYSTEM (DOMESTIC):**  
Nominal 110 Watts, 120 VAC, 60 Hz

# FREQUENCY RESPONSE CURVES



*Features and specifications subject to change without notice.*

Peavey Electronics Corporation • 5022 Hartley Peavey Drive • Meridian • MS • 39305  
(601) 483-5365 • FAX (601) 486-1278 • 80305570 • [www.peavey.com](http://www.peavey.com)

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# PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

Effective Date: 03/04/2010

## What This Warranty Covers

Your Peavey Warranty covers defects in material and workmanship in Peavey products purchased and serviced in the U.S.A. and Canada.

## What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Peavey Dealer.

## Who This Warranty Protects

This Warranty protects only the original purchaser of the product.

## How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

| Product Category   | Duration             |
|--|----------------------|
| Guitars/Basses, Amplifiers, Preamplifiers, Mixers, Electronic Crossovers and Equalizers                                      | 2 years *(+ 3 years) |
| Drums  | 2 years *(+ 1 year)  |
| Enclosures   | 3 years *(+ 2 years) |
| Digital Effect Devices and Keyboards and MIDI Controllers  | 1 years *(+ 1 year)  |
| Microphones  | 2 years              |
| Speaker Components<br>(incl. Speakers, Baskets, Drivers, Diaphragm Replacement Kits and Passive Crossovers)                  | 1 year               |
| Tubes and Meters   | 90 Days              |
| Cables   | Limited Lifetime     |
| Rockmaster Series, Strum'n Fun, Vectra, Rotor, OCC Stage pack,<br>GT & BT Series amps, Retro Fire, Metal Maker and Iron Wing | 1 year               |

*[\* Denotes additional Warranty period applicable if optional Warranty Registration Card is completed and returned to Peavey by original retail purchaser within 90 days of purchase.]*

## What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by Warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for Warranty service, the consumer must pay initial shipping charges. If the repairs are covered by Warranty, Peavey will pay the return shipping charges.

## How To Get Warranty Service

(1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Peavey Dealer or Authorized Peavey Service Center.

OR

(2) Ship the defective item, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301. Include a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of Warranty coverage. Also provide a complete return address.

## Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

Some states do not allow limitations on how long an implied Warranty lasts, so the above limitation may not apply to you.

## Exclusions of Damages

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you have any questions about this Warranty or services received or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365.

*Features and specifications are subject to change without notice.*



Logo referenced in Directive 2002/96/EC Annex IV (OJ(L)37/38,13.02.03 and defined in EN 50419: 2005  
The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005

# Optional Product Extended Warranty Registration

Give us some information and put your extended warranty into effect!

Please take a few minutes to fill out this information/survey sheet to help us get to know and serve you better.  
To save time, submit your warranty registration online at [www.peavey.com/support/warrantyregistration](http://www.peavey.com/support/warrantyregistration)

**1.**

First Name \_\_\_\_\_ Initial \_\_\_\_\_ Last Name \_\_\_\_\_

Street Address \_\_\_\_\_  
\_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Postal Code \_\_\_\_\_

( ) \_\_\_\_\_

Telephone Number \_\_\_\_\_ E-mail Address \_\_\_\_\_

( ) \_\_\_\_\_ - - \_\_\_\_\_

Fax Number \_\_\_\_\_ Date of Birth \_\_\_\_\_

Gender  M  F

**2.**

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

Model \_\_\_\_\_ 8-Digit Serial Number \_\_\_\_\_

Date of Purchase \_\_\_\_\_ Price Paid \_\_\_\_\_

**3.**

Name of store where purchased \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

**4.** Top two (2) reasons why you purchased from this store/dealer:

- |   |  |
|---|--|
| <input type="checkbox"/> Availability of product          | <input type="checkbox"/> Past favorable experience |
| <input type="checkbox"/> Friend/Relative's recommendation | <input type="checkbox"/> Best price                |
| <input type="checkbox"/> Store credit card                | <input type="checkbox"/> Advertised special        |
| <input type="checkbox"/> Knowledgeable staff              | <input type="checkbox"/> Convenient location       |
| <input type="checkbox"/> Availability of lessons          | <input type="checkbox"/> Received as a gift        |
| <input type="checkbox"/> Technical instruction            | <input type="checkbox"/> Other _____               |

**5.** Where do you most often shop for music and sound products?

- |   |   |
|---|---|
| <input type="checkbox"/> Independent retailer | <input type="checkbox"/> Newspaper ads      |
| <input type="checkbox"/> Mass market retailer | <input type="checkbox"/> Internet/Web sites |
| <input type="checkbox"/> Mail order magazines | <input type="checkbox"/> Other _____        |

**6.** What two (2) factors most influenced your purchase of this product?

- |  |   |
|--|---|
| <input type="checkbox"/> Peavey brand name   | <input type="checkbox"/> Product appearance           |
| <input type="checkbox"/> Craftsmanship       | <input type="checkbox"/> Durability                   |
| <input type="checkbox"/> Features for price  | <input type="checkbox"/> Prior experience with Peavey |
| <input type="checkbox"/> Bundled accessories | <input type="checkbox"/> Packaging                    |
| <input type="checkbox"/> Sound quality       | <input type="checkbox"/> Other _____                  |

**7.** How did you learn about this Peavey product? (select best answer)

- |   |   |
|---|---|
| <input type="checkbox"/> Magazine review                  | <input type="checkbox"/> Teacher's recommendation |
| <input type="checkbox"/> Newspaper review                 | <input type="checkbox"/> Catalog or flyer         |
| <input type="checkbox"/> Radio advertisement              | <input type="checkbox"/> Saw in store             |
| <input type="checkbox"/> Advertised special               | <input type="checkbox"/> Use by professional      |
| <input type="checkbox"/> Friend/Relative's recommendation | <input type="checkbox"/> Other _____              |
| <input type="checkbox"/> Salesperson's recommendation     |   |

**8.** Which other brands/models did you consider?

**9.** How would you describe your level of musicianship/technical expertise?

- Beginner - Never played or taken less than one (1) year of lessons  
 Intermediate - One (1) to five (5) years of lessons or playing  
 Advanced - More than five (5) years of lessons or playing; play professionally

**10.** Education: (select best answer)

- High school  
 Some college  
 Completed college  
 Graduate school

**11.** Which best describe your family income? (select best answer)

- |  |  |
|--|--|
| <input type="checkbox"/> Under \$15,000      | <input type="checkbox"/> \$75,000 - \$99,999   |
| <input type="checkbox"/> \$15,000 - \$24,999 | <input type="checkbox"/> \$100,000 - \$149,999 |
| <input type="checkbox"/> \$25,000 - \$34,999 | <input type="checkbox"/> Over - \$150,000      |
| <input type="checkbox"/> \$35,000 - \$49,999 |  |
| <input type="checkbox"/> \$50,000 - \$74,999 |  |

**12.** Which of the following is your primary source of information on musical products: (select best answer)

- |                                     |   |
|-------------------------------------|---|
| <input type="checkbox"/> Television | <input type="checkbox"/> Mail order catalogs          |
| <input type="checkbox"/> Radio      | <input type="checkbox"/> Direct mail                  |
| <input type="checkbox"/> Internet   | <input type="checkbox"/> Literature from manufacturer |
| <input type="checkbox"/> Newspaper  | <input type="checkbox"/> Other _____                  |
| <input type="checkbox"/> Magazines  |   |

**13.** What is your main motivation for buying new equipment?

- |  |  |
|--|--|
| <input type="checkbox"/> Replacing old product               | <input type="checkbox"/> Impulse                       |
| <input type="checkbox"/> Want new and leading edge equipment | <input type="checkbox"/> Need for improved performance |
| <input type="checkbox"/> Fullfill a specific need            | <input type="checkbox"/> New technology                |
| <input type="checkbox"/> Supplement existing products        | <input type="checkbox"/> Availability of product       |
| <input type="checkbox"/> Value                               | <input type="checkbox"/> Other _____                   |

**14.** Please list your three most frequently visited Web sites.

1. http:// \_\_\_\_\_  
 2. http:// \_\_\_\_\_  
 3. http:// \_\_\_\_\_

**15.** In your opinion, what could Peavey do to improve its products and/or service? Please use the space below to tell us your answer.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Thank you for taking the time to fill out our survey! Don't forget to fold and tape (with Peavey address facing out), affix postage stamp and drop in the mail!



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**FROM:**

**Peavey Electronics Corporation**  
Attn: Warranty Department  
P.O. Box 5108  
Meridian, Ms 39302-5108



Place  
Postage  
Here