POWERCLASS™ C2 OWNERS MANUAL

100%

CONTENTS

(click a topic to view)

Congratulations and thank you.....

for choosing ***C2*** audio epuipment. We are proud to put the *Precision**Power*** name on these outstanding audio products. Like the ***POWER**CLASS*™ lineup, you can count on the ***C2*** line to deliver *Absolutely State of the Art*™ performance and value. This *Precision**Power*** product reflects our commitment to offer you unparalleled versatility and listening enjoyment.

Service

Do not attempt to service *Precision**Power*** products yourself. Performing exploratory surgery on your audio equipment yourself will void the warranty. Many parts of your ***C2*** gear are custom built to our specifications. parts are not made available to anyone else nor are they for sale. Our goal is to make sure that your *Precision**Power*** product will always sound as good as the day it was purchased. Contact your authorized *Precision**Power*** dealer about obtaining any warranty service through *Precision**Power***. (See Warranty insde back cover)

FOR YOUR RECORDS:

Model _____

Serial Number _____

Purchase Date _____

Caution!

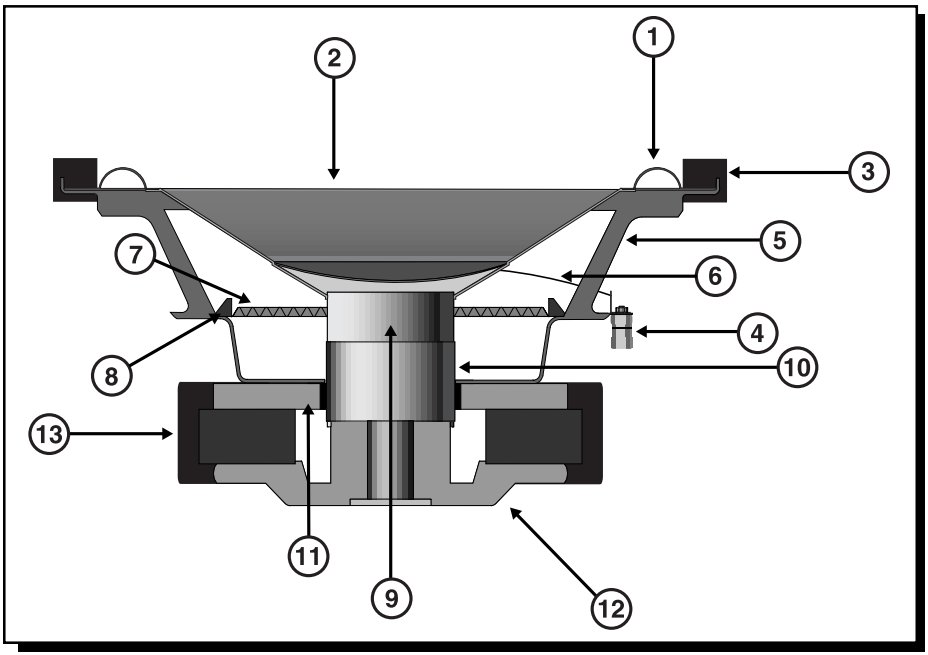
The extended use of a high powered audio system may result in hearing loss or damage. While *Precision**Power*** systems are capable of "Concert Level" volumes with incredible accuracy, they are also designed for you to enjoy at more reasonable levels all of the sonic subtleties created by musicians. Please observe all local sound ordinances.

BACK TO CONTENTS

INTRODUCTION

Your new ***Power****Class* ***C2*** subwoofer is part of an exciting line of loudspeakers from *Precision****Power***. The ***Power****Class* subwoofers reflect our commitment to *"Absolutely State of the Art"* performance and flawless sonic quality.

C2 Structure



1. Progressive Butyl Rubber Surround
2. Stepped PolyCarbon Cone
3. Butyl Rubber Flange Gasket
4. Gold Plated 12ga. Binding Post Terminals
5. Deep Draw Steel Basket
6. High Current Silver Plated Tinsel Leads
7. Flat Spider
8. Spider Clamp
9. TIL Voice Coil Former
10. Long Wind 4 Layer Voice Coil
11. 10mm Frontplate
12. Integrated Backplate / Extended Pole
13. Protective Magnet Cover

Included in this manual are a number of sample enclosure drawings. They are by no means the only enclosures to use, but rather a starting point in the right direction. To determine the correct enclosure for your needs many factors need to be addressed (amount of power, vehicle, placement, crossover, etc.) Therefore, as always, *Precision****Power*** recommends that your subwoofer be installed by an Authorized ***Power****Class* Dealer.

PC8 C2 Specifications

Normal Power Handling	150 W rms
Voice Coil Diameter	2” / 50.8mm
Voice Coil Type / Former	4 Layer/TIL
Resonant Frequency	32 Hz
Qts-Total Damping	0.49
Qms- Mechanical Damping	9.20
Qes- Electromagnetic Damping	0.518
Vas- Equivalent Compliance Volume	.80cuft / 22.78 liter
DC Resistance of V.C.	3.6W / 6.8W
Sensitivity (SPL at 1W)	87.57 dB
Xmax (Linear Excursion)	±.343" / 8.72 mm
Peak to Peak Excursion	±.629" / 16.00 mm
Mms- Total Mass	2.34oz / 66.35 g
Sd- Piston Area	.230sqft / 0.0214 sqm
Bl- Magnet Product	9.26 Tm
Cone Material	Carbon Poly
Basket Material	Stamped Steel
Net Weight	5.80 lbs / 2.63kg
Dimensions	8.09” dia. X 4.375” H 205mm dia. X 110mm H
Mounting Hole Diameter	7.375” /185mm
Mounting Depth	4.00" /102mm
Displacement	.04 cuft / 1.13 liter

PC8 C2 Enclosure Recommendations

SPL 1:	1.31cu.ft. Bandpass .61 Sealed/.7 Ported, 3"Dia x 5.5"L Port	F3: 49Hz	Fo: 60Hz
SPL 2:	.75 cu.ft. Ported 3"Dia x 11"L Port	F3: 40Hz	Fo: 43Hz
General Use 1:	.75 cu.ft. Ported 3"Dia x 11"L Port	F3: 40Hz	Fo: 43Hz
General Use 2:	.5 cu.ft. Ported 2"Dia x 6"L Port	F3: 46Hz	Fo: 47Hz
Audiophile 1:	.75 cu.ft. Sealed 1) 4"Dia x 7.75"L Port	F3: 48Hz	
Audiophile 2:	.5 cu.ft. Sealed	F3: 49Hz	

See page 6 for examples of dimensions for these enclosures.

PC10 C2 Specifications

Normal Power Handling	300W rms
Voice Coil Diameter	2” / 50.8mm
Voice Coil Type / Former	4 Layer/TIL
Resonant Frequency	25.24Hz
Qts-Total Damping	0.38
Qms- Mechanical Damping	6.95
Qes- Electromagnetic Damping	0.40
Vas- Equivalent Compliance Volume	2.4 cuft / 68.14 liter
DC Resistance of V.C.	3.6W / 6.8W
Sensitivity (SPL at 1W)	89.64 dB
Xmax (Linear Excursion)	±.393" / 9.97mm
Peak to Peak Excursion	±.679" / 17.25mm
Mms- Total Mass	3.37oz / 95.73g
Sd- Piston Area	.372sqft / 0.0346 sqm
Bl- Magnet Product	11.74 Tm
Cone Material	Carbon Poly
Basket Material	Stamped Steel
Net Weight	8.68 lbs / 3.94 kg
Dimensions	10.07” dia. X 5.185” H (256mm dia. X 132mm H)
Mounting Hole Diameter	9.25” / 232mm dia.
Mounting Depth	4.80" / 122mm
Displacement	.065 cuft / 1.84 liter

PC10 C2 Enclosure Recommendations

SPL 1:	1.0 cu.ft. Bandpass .36 Sealed/.62 Ported, 4"Dia x 6.5"L Port	F3: 50Hz	Fo: 75Hz
SPL 2:	.75 cu.ft. Ported 3"Dia x 8.9"L Port	F3: 43Hz	Fo: 47Hz
General Use 1:	1.0 cu.ft. Ported 3"Dia x 8.25"L Port	F3: 38Hz	Fo:42Hz
General Use 2:	.75 cu.ft. Ported 3"Dia x 8.9"L Port	F3: 43Hz	Fo: 47Hz
Audiophile 1:	1.0 cu.ft. Ported 3"Dia x 8.25"L Port	F3: 38Hz	Fo:42Hz
Audiophile 2:	.75 cu.ft. Sealed	F3: 51Hz	

See page 8 for examples of dimensions for these enclosures.

PC12 C2 Specifications

Normal Power Handling	300W rms
Voice Coil Diameter	2” / 50.8mm
Voice Coil Type / Former	4 Layer/TIL
Resonant Frequency	21.64Hz
Qts-Total Damping	0.41
Qms- Mechanical Damping	5.41
Qes- Electromagnetic Damping	0.44
Vas- Equivalent Compliance Volume	5.31cuft / 150.37 liter
DC Resistance of V.C.	3.6W / 6.8W
Sensitivity (SPL at 1W)	90.67 dB
Xmax (Linear Excursion)	±.393" / 9.97mm
Peak to Peak Excursion	±.67" / 17.00mm
Mms- Total Mass	4.46oz / 126.59g
Sd- Piston Area	.555sqft / 0.0511 sqm
Bl- Magnet Product	11.87 Tm
Cone Material	Carbon Poly
Basket Material	Stamped Steel
Net Weight	8.92lbs / 4.04kg
Dimensions	12.0” dia. X 5.78” H 305mm dia. X 147mm H
Mounting Hole Diameter	11.00” / 280mm
Mounting Depth	5.5" / 140mm
Displacement	.075 cuft / 2.12 liter

PC12 C2 Enclosure Recommendations

SPL 1:	2.3 cu.ft. Bandpass .6 Sealed/1.7 Ported,	F3: 53Hz 2) 4"Dia x 4.5"L Ports	Fo: 70Hz
SPL 2:	1.25 cu.ft. Ported 4"Dia x 10.0"L Port	F3: 42Hz	Fo: 45Hz
General Use 1:	1.75 cu.ft. Ported 4"Dia x 8.5"L Port	F3: 37Hz	Fo: 40Hz
General Use 2:	1.9 cu.ft. Bandpass .7 Sealed/1.2 Ported,	F3: 45Hz 2) 4"Dia x 8.5"L Ports	Fo: 68Hz
Audiophile 1:	1.25 cu.ft. Sealed	F3: 44Hz	
Audiophile 2:	2.5 cu.ft. Ported 4"Dia x 7.5"L Port	F3: 31Hz	Fo: 35Hz

See page 10 for examples of dimensions for these enclosures.

PC15 C2 Specifications

Normal Power Handling	300W rms
Voice Coil Diameter	2” / 50.8mm
Voice Coil Type / Former	4 Layer/TIL
Resonant Frequency	31Hz
Qts-Total Damping	0.34
Qms- Mechanical Damping	1.21
Qes- Electromagnetic Damping	0.47
Vas- Equivalent Compliance Volume	3.83cuft / 108.43 liter
DC Resistance of V.C.	3.6W / 6.8W
Sensitivity (SPL at 1W)	90.51 dB
Xmax (Linear Excursion)	±.383" / 9.72mm
Peak to Peak Excursion	±.679" / 17.25mm
Mms- Total Mass	5.87oz / 166.15g
Sd- Piston Area	.920sqft / 0.0855 sqm
Bl- Magnet Product	12.91 Tm
Cone Material	Carbon Poly
Basket Material	Stamped Steel
Net Weight	11.32 lbs / 5.13kg
Dimensions	15.16” dia. X 7.20” H (385mm dia. X 183mm H)
Mounting Hole Diameter	13.75” / 347mm dia.
Mounting Depth	6.85" / 173mm
Displacement	.09 cuft / 2.56liter

PC15 C2 Enclosure Recommendations

SPL 1:	5.0 cu.ft. Bandpass 1.5 Sealed/3.5 Ported, 2) 6"Dia x 5.0"L Ports	F3: 47Hz	Fo: 65
SPL 2:	2.0 cu.ft. Ported 4"Dia x 9.0"L Port	F3: 44Hz	Fo: 37Hz
General Use 1:	3.5 cu.ft. Ported 4"Dia x 4.5"L Port	F3: 35Hz	Fo: 35Hz
General Use 2:	3.5 cu.ft. Bandpass 1.5 Sealed/2.0 Ported, 6"Dia x 4.0"L Ports	F3: 40Hz	Fo: 65
Audiophile 1:	2.5 cu.ft. Sealed	F3: 41Hz	
Audiophile 2:	2.0 cu.ft. Sealed	F3: 44Hz	

See page 10 for examples of dimensions for these enclosures.

Basic Working Dimensions for the *PC8 C2*

Outer Diameter	8.09” / 205mm
Mounting Hole Diameter	7.375” /185mm
Mounting Depth (from bottom of top ring)	4.00" /102mm
Speaker Displacement	.04 cuft / 1.13 liter

PC8 C2 Sealed Enclosures

Net Volume	Internal Dimensions (see page 15)
.33 cubic feet	14.25”L x 8.5”W x 5.25”D
.5 cubic feet	16”L x 9.75”W x 6”D
.6 cubic feet	16.75”L x 10.25”W x 6.5”D

PC8 C2 Ported Enclosures

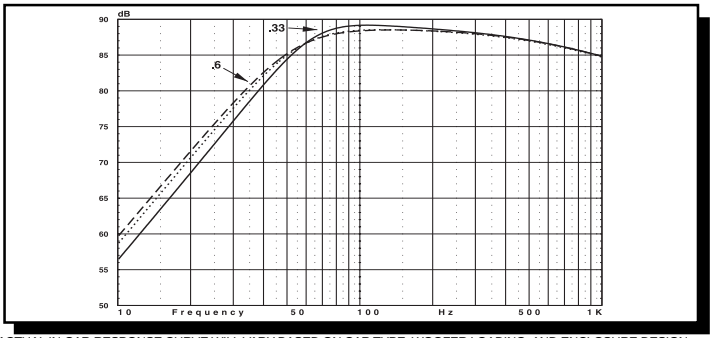
Net Volume	Internal Dimensions (see page 17)
.33 cubic feet	14”L x 9”W x 5.375”D
Port Tuned to 50Hz	2"Dia x 8.5" Long Port
.5 cubic feet	14”L x 9”W x 5.625”D
Port Tuned to 47Hz	2"Dia x 6.0" Long Port
.75 cubic feet	19”L x 11.75”W x 7.25”D
Port Tuned to 42Hz	3"Dia x 11.0" Long Port

PC8 C2 Bandpass Enclosures

	Net Volume	Internal Dimensions (see page 19)
Low Gain	.6 cu.ft. Sealed	10"L x 11.5"W x 10.125"C1
33Hz to 81Hz	.35 cu.ft. Ported	10"L x 11.5"W x 5.375"C2
	Port Tuned to 55 Hz	3"Dia x 15.0" Long Port*
Medium Gain	.35 cu.ft. Sealed	12"L x 8.5"W x 6.5"C1
43Hz to 94Hz	.34 cu.ft. Ported	12"L x 8.5"W x 6"C2
	Port Tuned to 65Hz	3"Dia x 10.75" Long Port*
High Gain	.61 cu.ft. Sealed	17"L x 10.25"W x 6.5"C1
49Hz to 74Hz	.7 cu.ft. Ported	17"L x 10.25"W x 7.125"C2
	Port Tuned to 60Hz	3"Dia x 5.0" Long Port

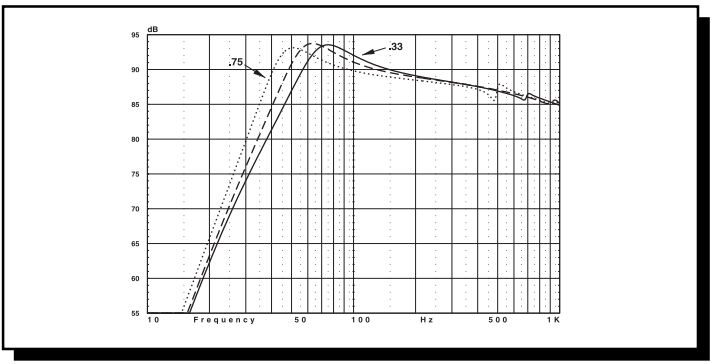
* Port must run through the sealed chamber in this enclosure.

PC8 C2 Sealed RESPONSE CURVE*



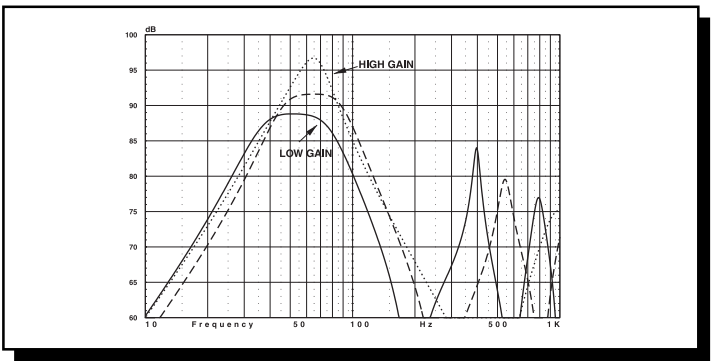
*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

PC8 C2 Ported RESPONSE CURVE*



*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

PC8 C2 Bandpass RESPONSE CURVE*



*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

Basic Working Dimensions for the *PC10 C2*

Outer Diameter	10.07” / 256mm
Mounting Hole Diameter	9.25” / 232mm dia.
Mounting Depth (from bottom of top ring)	4.80" / 122mm
Speaker Displacement	.065 cuft / 1.84 liter

PC10 C2 Sealed Enclosures

Net Volume	Internal Dimensions (see page 15)
.5 cubic feet	16”L x 10”W x 6.125”D
.75 cubic feet	18”L x 11.25”W x 7.0”D
1.0 cubic feet	20”L x 12.5”W x 7.375”D

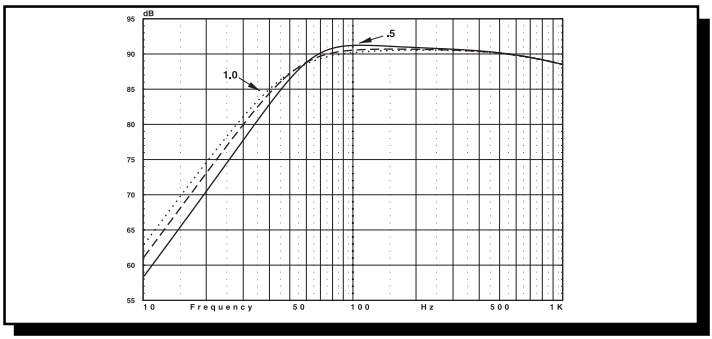
PC10 C2 Ported Enclosures

Net Volume	Internal Dimensions (see page 17)
.75 cubic feet	18.5”L x 11.5”W x 7.0”D
Port Tuned to 47Hz	3"Dia x 9.0" Long Port
1.0 cubic feet	20”L x 12”W x8”D
Port Tuned to 42Hz	3"Dia x 8.25" Long Port
1.25 cubic feet	21.75”L x 13”W x 8.25”D
Port Tuned to 38Hz	3"Dia x 8.0" Long Port

PC10 C2 Bandpass Enclosures

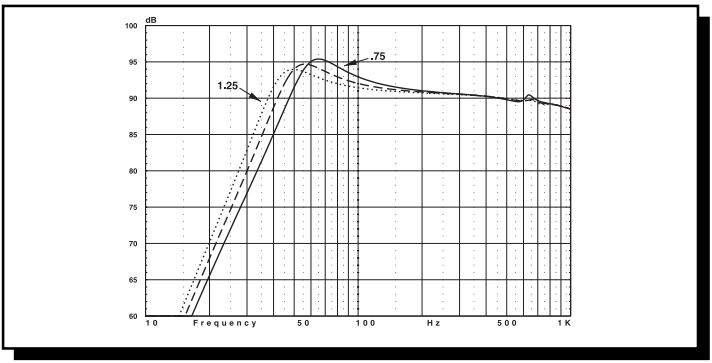
	Net Volume	Internal Dimensions (see page 19)
Low Gain	.84 cu.ft. Sealed	18.75"L x 11.5"W x 7.25"C1
33Hz to 85Hz	.63 cu.ft. Ported	18.75"L x 11.5"W x 5.25"C2
	Port Tuned to 53Hz	3"Dia x 8.25" Long Port
Medium Gain	.60 cu.ft. Sealed	17.0"L x 10.5"W x 6.5"C1
39Hz to 94Hz	.60 cu.ft. Ported	17.0"L x 10.5"W x 6.375"C2
	Port Tuned to 60Hz	3"Dia x 6.25" Long Port
High Gain	.36 cu.ft. Sealed	12.0"L x 12.0"W x 5.125"C1
50Hz to 101Hz	.62 cu.ft. Ported	12.0"L x 12.0"W x 8.125"C2
	Port Tuned to 71Hz	4"Dia x 7.5" Long Port

PC10 C2 Sealed RESPONSE CURVE*



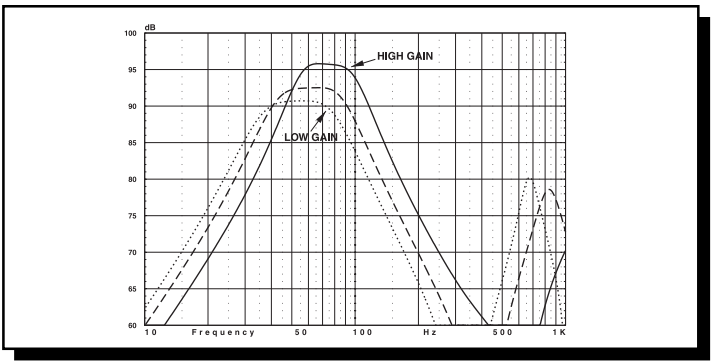
*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

PC10 C2 Ported RESPONSE CURVE*



*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

PC10 C2 Bandpass RESPONSE CURVE*



*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

Basic Working Dimensions for the *PC12 C2*

Outer Diameter	12.0" / 305mm
Mounting Hole Diameter	11.00" / 280mm
Mounting Depth (from bottom of top ring)	5.5" / 140mm
Speaker Displacement	.075 cuft / 2.12 liter

PC12 C2 Sealed Enclosures

Net Volume	Internal Dimensions (see page 15)
1.0 cubic feet	20"L x 12"W x 7.75"D
1.25 cubic feet	21.25"L x 13.25"W x 8.125"D
1.5 cubic feet	22.5"L x 14"W x 8.625"D

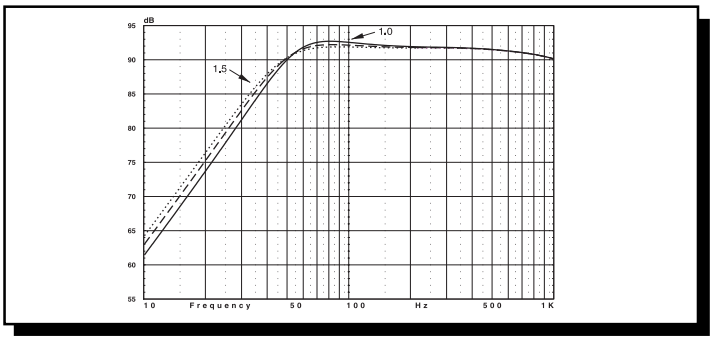
PC12 C2 Ported Enclosures

Net Volume	Internal Dimensions (see page 17)
1.25 cubic feet	22.75"L x 14"W x 7.5"D
Port Tuned to 45Hz	4"Dia x 10.0" Long Port
1.75 cubic feet	24.75"L x 15"W x 8.75"D
Port Tuned to 40Hz	4"Dia x 8.5" Long Port
2.50 cubic feet	27.25"L x 17"W x 9.75"D
Port Tuned to 35Hz	4"Dia x 7.5" Long Port

PC12 C2 Bandpass Enclosures

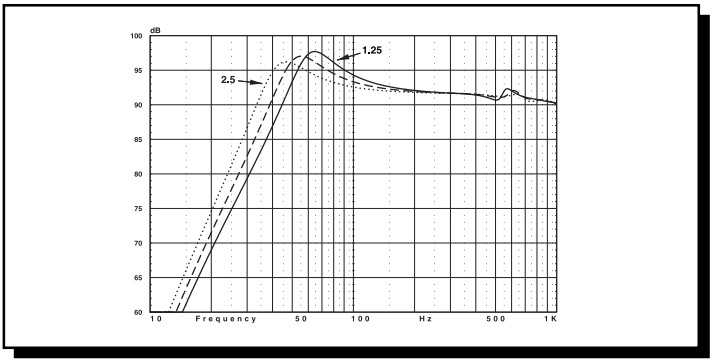
	Net Volume	Internal Dimensions (see page 19)
Low Gain	.94cu.ft. Sealed	15"L x 15"W x 7.75"C1
32Hz to 103Hz	.8 cu.ft. Ported	15"L x 15"W x 6.625"C2
	Port Tuned to 60Hz	4"Dia x 8.375" Long Port
Medium Gain	.7 cu.ft. Sealed	15"L x 15"W x 6.0"C1
45Hz to 98Hz	1.2 cu.ft. Ported	15"L x 15"W x 10.125"C2
	Port Tuned to 68Hz	2) 4"Dia x 8.5" Long Ports
High Gain	.6 cu.ft. Sealed	15"L x 15"W x 5.125"C1
53Hz to 95 Hz	1.7 cu.ft. Ported	15"L x 15"W x 13.5"C2
	Port Tuned to 70Hz	2) 4"Dia x 4.5" Long Ports

PC12 C2 Sealed RESPONSE CURVE*



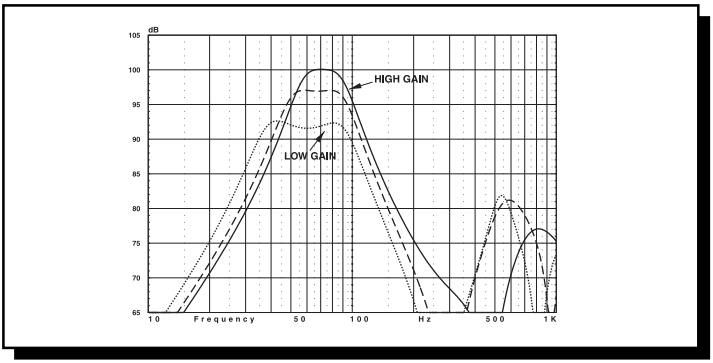
*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

PC12 C2 Ported RESPONSE CURVE*



*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

PC12 C2 Bandpass RESPONSE CURVE*



*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

Basic Working Dimensions for the *PC15 C2*

Outer Diameter	15.157” / 385mm
Mounting Hole Diameter	13.75” / 350mm
Mounting Depth (from bottom of top ring)	6.85" / 174mm
Speaker Displacement	.09 cuft / 2.67 liter

PC15 C2 Sealed Enclosures

Net Volume	Internal Dimensions (see page 15)
1.5 cubic feet	22.5”L x 14”W x 8.75”D
2.0 cubic feet	25”L x 15.25”W x 9.5”D
2.5 cubic feet	26”L x 16.5”W x 10.5”D

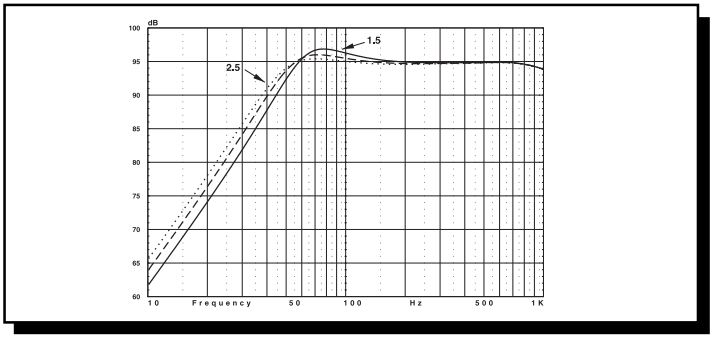
PC15 C2 Ported Enclosures

Net Volume	Internal Dimensions (see page 17)
2.0 cubic feet	25.75”L x 16”W x 9”D
Port Tuned to 37Hz	4"Dia x 9.0" Long Port
3.5 cubic feet	30”L x 18.5”W x 11.25”D
Port Tuned to 35Hz	4"Dia x 4.5" Long Port
5.0 cubic feet	33”L x 21”W x 12.75”D
Port Tuned to 30Hz	4"Dia x 4" Long Port

PC15 C2 Bandpass Enclosures

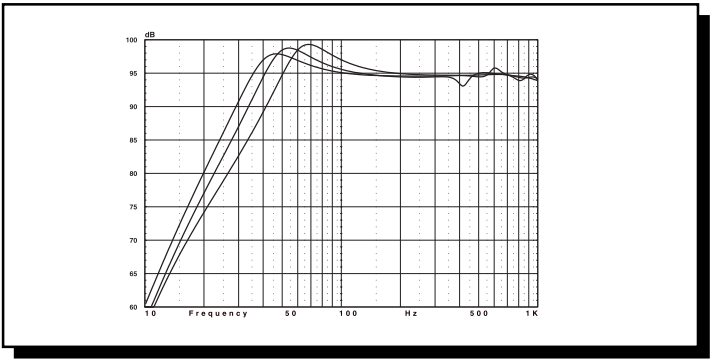
	Net Volume	Internal Dimensions (see page 19)
Low Gain	2.0 cu.ft. Sealed	16.5"L x 16.5"W x 13.25"C1
31Hz to 108Hz	1.5 cu.ft. Ported	16.5"L x 16.5"W x 10"C2
	Port Tuned to 60Hz	2) 3"Dia x 10.25" Long Ports
Medium Gain	1.5 cu.ft. Sealed	16.5"L x 16.5"W x 10"C1
40Hz to 108Hz	2.0 cu.ft. Ported	16.5"L x 16.5"W x 13.5"C2
	Port Tuned to 65Hz	2) 4"Dia x 8.5" Long Ports
High Gain	1.5 cu.ft. Sealed	18"L x 16"W x 9.5"C1
47Hz to 92Hz	3.5 cu.ft. Ported	18"L x 16"W x 21.125"C2
	Port Tuned to 6 5Hz	1) 6"Dia x 1.75" Long Port

PC15 C2 Sealed RESPONSE CURVE*



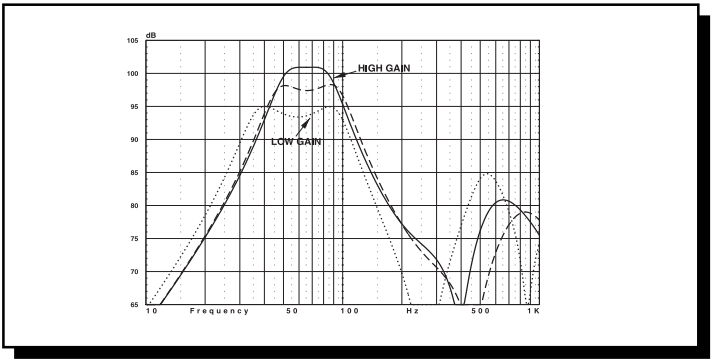
*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

PC15 C2 Ported RESPONSE CURVE*



*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

PC15 C2 Bandpass RESPONSE CURVE*

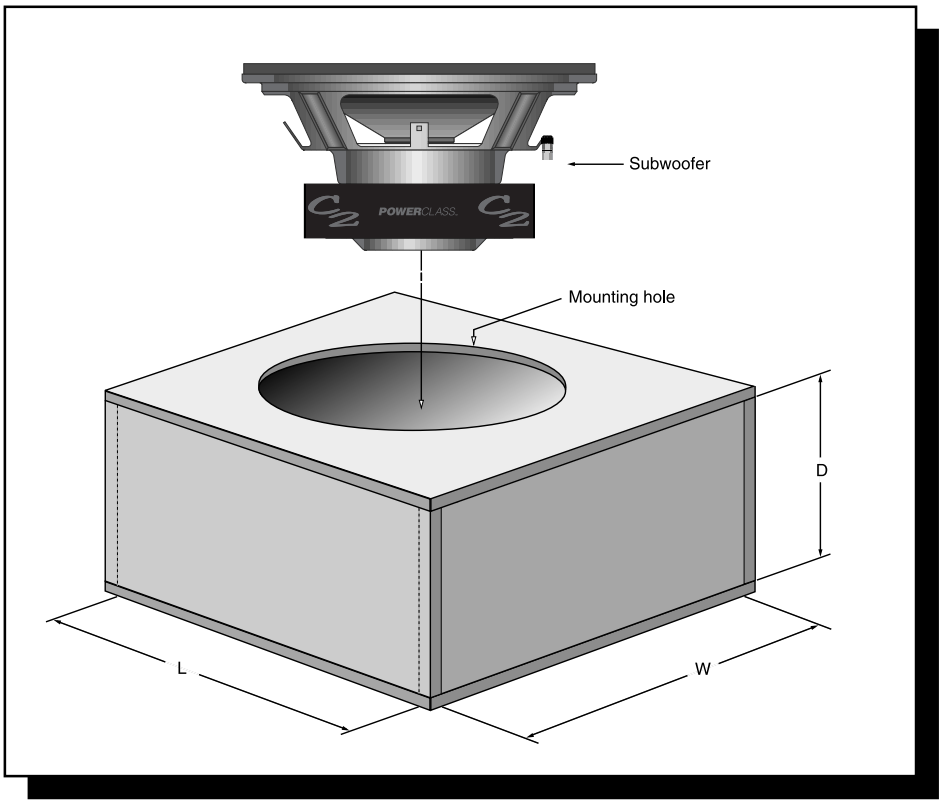


*ACTUAL IN-CAR RESPONSE CURVE WILL VARY BASED ON CAR TYPE, WOOFER LOADING, AND ENCLOSURE DESIGN.

Building a Sealed Enclosure:

1. Build a sealed enclosure with internal L x W x D as specified for your woofer (See recommended enclosures for your woofer). Use 3/4” thick MDF for the enclosure. Be sure to use wood glue and silicone to ensure your enclosure is sealed properly, as air leaks will affect the performance of your subwoofer.
2. Using the supplied template, trace the appropriate circle and mounting hole pattern for your PowerClass C2 subwoofer on the baffle board. (See diagram)
3. Cut the speaker hole from the baffle board with a router, using a guide or template whenever possible. Use a jig saw only if a router is not available.
4. Place the woofer in the opening which you have cut in the baffle to check the fit.
5. Run an appropriate length of wire into the enclosure, leaving enough length to comfortably install the wires to the terminals on the woofer before placing the speaker into its mounting hole. Use a terminal cup whenever possible.
6. Vacuum out any wood shavings and dust from the inside of the enclosure. (Failure to do so may void your warranty.) Loosely fill the box half way with polyester fiberfill.
7. Connect the wires to the woofer observing the proper polarity, positive and negative terminals. Strip away the insulation of the wire about 1/4" and install the wires into the terminal posts.
8. Install the woofer into the enclosure using #8 or larger wood screws (not supplied)
9. Once the enclosure is complete, it is time to connect the speaker wire coming from the subwoofer enclosure to your amplifier. Check that you use the proper wire for consistent polarity, positive and negative. (Refer to your amplifier owner’s manual.)
10. Finally, sit back and enjoy the incredible enhancement your new PowerClass C2 subwoofer brings to your audio system.

Sealed Speaker Diagram

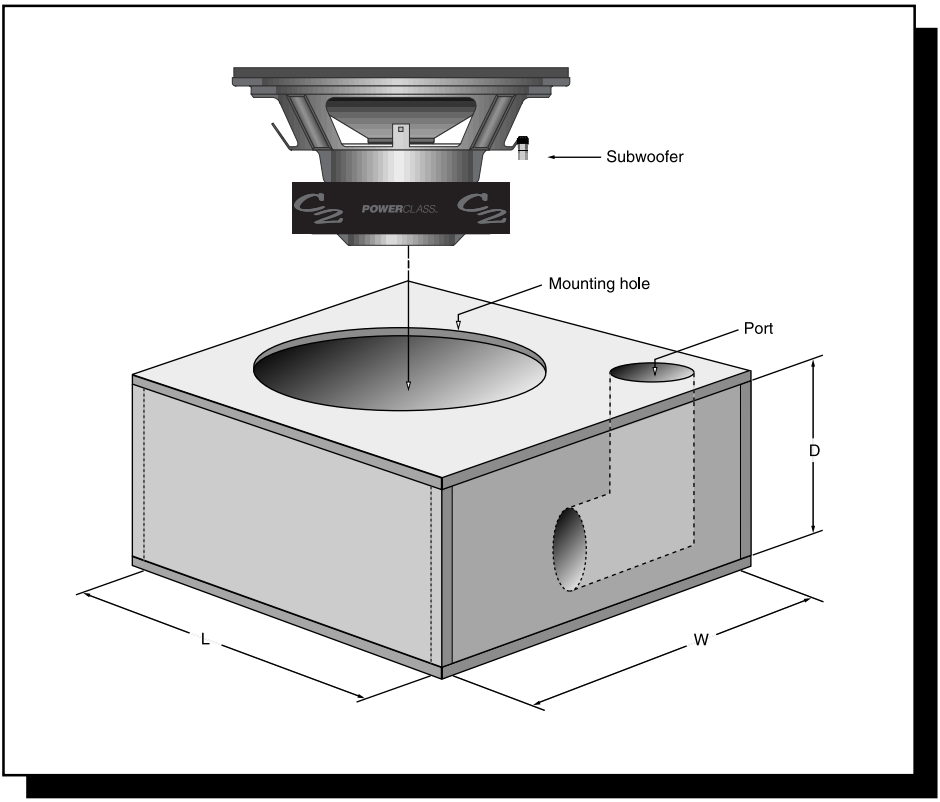


Internal dimensions should be calculated to determine the correct box volume. Be sure to allow for speaker displacement and extra bracing (if used).

Building a Ported Enclosure:

1. Build a ported enclosure with internal dimensions of LxWxD as specified for your woofer (See recommended enclosures for your woofer). Use 3/4” thick MDF for the enclosure. Be sure to use wood glue and silicone at all joints to ensure your enclosure is sealed properly. Air leaks will affect the performance of your subwoofer, even in a ported enclosure.
2. Using the supplied template, trace the appropriate circle and mounting hole pattern for your PowerClass C2 subwoofer on the baffle board. Be sure to offset the woofer to one side to leave room for the port in the baffle. (See Diagram)
3. Cut the speaker and port holes from the baffle board with a router, using a guide or template whenever possible. Use a jig saw only if a router is not available.
4. Locate the port material that you are going to use, and cut to length. When installing the port, make sure you have a clearance of at least one port diameter from the end of the port to the inside wall of the box. Round over the inside edges of both ends of the port with a router or file to minimize port noise.
5. Place the woofer into the hole which you have cut in the baffle to check the fit.
6. Run an appropriate length of wire into the box, leaving enough to comfortably install the wires to the woofer terminals before placing the speaker into its mounting hole. Use a terminal cup whenever possible.
7. Vacuum out any wood shavings and dust from the inside of the enclosure. (Failure to do so may void your warranty.) Line the enclosure with a polyester fiberfill blanket or fiberglass insulation about 1” thick.
8. Connect the wires to the woofer observing the proper polarity, positive and negative terminals. Strip away the insulation of the wire about a 1/4" and install the wires into the terminal posts
9. Once the box is complete, it's time to connect the speaker wire coming from the subwoofer enclosure to your amplifier. Check that you use the proper wire for consistent polarity, positive and negative. (Refer to your amplifier owner’s manual.)
10. Finally, sit back and enjoy the incredible enhancement your new PowerClass C2 subwoofer brings to your audio system.

Ported Enclosure Diagram

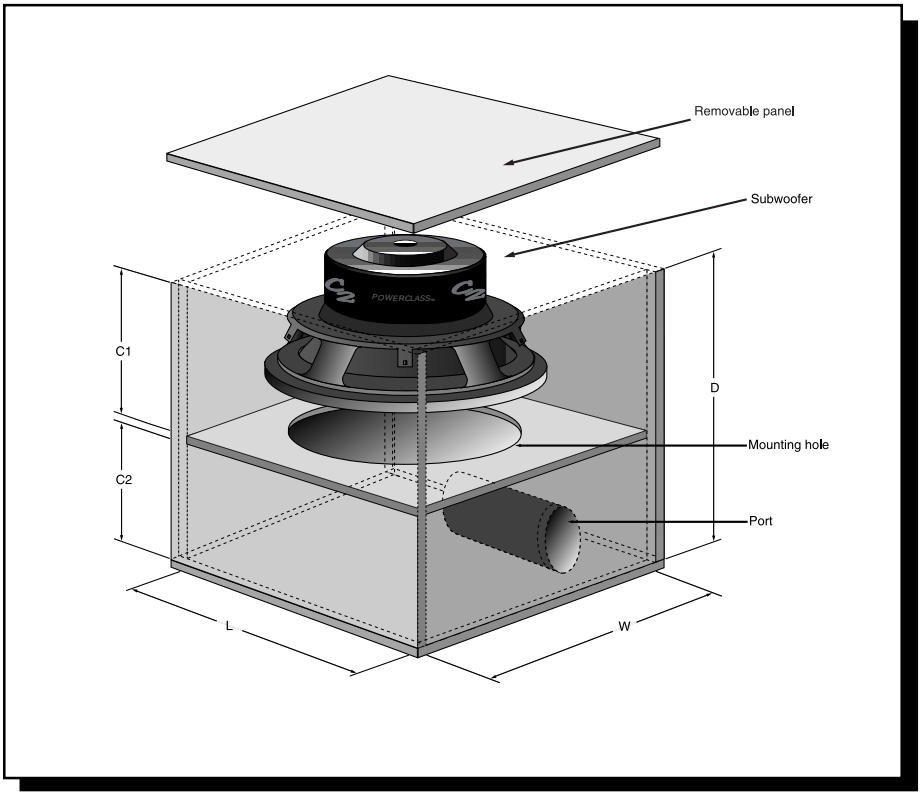


Internal dimensions should be calculated to determine the correct enclosure volume. Be sure to allow for speaker displacement, extra bracing (if used), and port displacement (only the length of the port that is INSIDE the enclosure). It may be necessary to angle the port to fit your design. To calculate the displacement of the port: (Outside) Radius^2 x 3.14 x Length of the port that is inside the enclosure.

Building a Bandpass Enclosure:

1. Using 3/4" thick MDF, cut out all the panels to build a divided enclosure with internal dimensions of LxWxC1 and C2 as specified for your woofer (See recommended enclosures for your woofer).
2. Using the supplied template, trace the appropriate circle and mounting hole pattern for your PowerClass C2 subwoofer on the baffle board.
3. Cut the speaker and port holes from the baffle board with a router, using a guide or template whenever possible. Use a jig saw only if a router is not available.
4. Locate the port material which you are going to use, and cut it to the appropriate length. When installing the port, make sure you have a distance of at least one port diameter from the end of the port to the inside wall of the enclosure. Round over the inside edges of both ends of the port with a router or file to minimize port noise.
5. Assemble the enclosure, using wood glue and silicone at all joints to ensure your that enclosure is sealed properly. Air leaks will affect the performance of your subwoofer even in ported enclosures. Leave one panel removable for access to the woofer.
6. Place the woofer into the hole which you have cut in the baffle to check the fit.
7. Run an appropriate length of wire into the enclosure, leaving enough to comfortably install the wires to the terminals on the woofer before placing the speaker into its mounting hole. Use a terminal cup whenever possible.
8. Vacuum out any wood shavings and dust from the inside of the enclosure. (Failure to do so may void your warranty.) Then, line the ported side of the enclosure with a polyester fiberfill blanket or fiberglass insulation about 1” thick, and loosely fill the sealed side of the enclosure half way with polyester fiberfill.
9. Connect the wires to the woofer observing the proper polarity, positive and negative terminals. Strip away the insulation of the wire about a 1/4" and install the wires into the terminal posts.
10. Install the woofer into the enclosure using #8 or larger wood screws.
11. Attach the removable cover to the enclosure, ensuring that there are no air leaks.
12. Once the box is complete, it's time to connect the speaker wire coming from the subwoofer enclosure to your amplifier. Check that you use the proper wire for consistent polarity, positive and negative. (Refer to amplifier owner’s manual.)
13. Finally, sit back and enjoy the incredible enhancement your new PowerClass C2 subwoofer brings to your audio system.

Bandpass Enclosure Diagram



Internal dimensions should be calculated to determine the correct enclosure volume. Be sure to allow for speaker displacement, extra bracing (if used), and port displacement (only the length of the port that is INSIDE the enclosure). If the port is very long, it may be necessary to run the port through the sealed chamber into the ported chamber. To calculate the displacement of the port: (Outside) Radius^2 x 3.14 x Length of the port that is inside the enclosure.

Additional Information

Our dealers are trained to achieve the highest level of performance from our products. If you are installing your new subwoofers on your own and need assistance, please call your local ***Power****Class* dealer or *Precision****Power*** Technical Service Department at

1-800-62-POWER.

Thanks again for choosing ***Power****Class.*

NOTE: Abuse and/or Installation Error: *Precision****Power*** defines abuse as, but not limited to, burnt voice coils (blackened, no continuity, melted adhesives, coil separated from the former, etc.), punctured or damaged surrounds, broken speaker terminals, non-*Precision****Power*** modifications, bent, chipped, or broken frames, ripped spiders, or damaged back plates. Speakers submitted with any of the above will be considered out of warranty.

WARRANTY

Three-Year Limited U.S.A. Warranty

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. PrecisionPower warrants its products to be free from defects in materials and workmanship under normal use and service for a period of three (3) years from the date of original purchase when the unit is installed by an Authorized Dealer. Non-Authorized Dealer installed products carry a one (1) year parts and ninety (90) days labor limited warranty. The extent and conditions of Limited Warranty are as follows:

1. Authorized Dealer Installed Products: PrecisionPower will either repair or replace at no charge, to the original purchaser, any unit which PrecisionPower's examination discloses to be defective and under warranty, provided the defect occurs within three (3) years from the date of original purchase when the unit is installed by an Authorized Dealer and the product is returned immediately to PrecisionPower. This warranty is not transferable.

2. Non-Authorized Dealer Installed Products: PrecisionPower will either repair or replace at no charge, to the original purchaser, any unit which PrecisionPower's examination discloses to be defective and under warranty, provided the defect occurs within ninety (90) days from the date of purchase and the product is returned immediately to PrecisionPower. Warranty claims beyond ninety (90) days for Non-Authorized Dealer Installed Products will be for parts only and will extend for one (1) year from the date of purchase. This warranty is not transferable.

3. The date of purchase and proof of Authorized Dealer Installation of a PrecisionPower product must be established by an original sales receipt which must accompany the article being returned for warranty work.

4. This warranty shall NOT apply to any PrecisionPower product found to have the original factory serial number removed or defaced. All products received (by PrecisionPower) for in warranty or out of warranty repair, with their original serial numbers removed or defaced, will NOT be repaired and will be returned to sender, freight collect. Refer to original packaging for the serial number of your component speakers.

5. The provisions of this warranty shall not apply to any PrecisionPower product used for a purpose for which it is not designed, which has been repaired or altered in any way, or which has been connected, installed, or adjusted other than in accordance with the instructions furnished in PrecisionPower's owner's manual. Nor shall this warranty apply to any part which has been subject to misuse, neglect, or accident.

6. PrecisionPower does not authorize any other persons to assume any other liability in connection with its products. THIS WARRANTY IS THE ONLY EXPRESS WARRANTY MADE BY PRECISIONPOWER APPLICABLE TO ITS PRODUCTS. ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO PRECISIONPOWER PRODUCTS IS LIMITED IN DURATION TO THE DURATION OF THIS LIMITED WARRANTY. PRECISIONPOWER SHALL NOT BE LIABLE FOR THE INCIDENTAL, CONSEQUENTIAL, OR COMMERCIAL DAMAGES RESULTING FROM THE BREACH OF THIS WRITTEN WARRANTY. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts; so the above limitations or exclusions may not apply to you.

7. Your product will be serviced on an in-warranty basis within the warranty period for the correction of warranted defects. If improper operation of your PrecisionPower product should occur, contact your Authorized Dealer for assistance with the return and factory repair of your PrecisionPower
product. If an Authorized Dealer is not available, return the unit including your name, telephone number, return address, a copy of your sales receipt, and a description of the problem to:

PrecisionPower,Inc.
Service Department
4829 S. 38th Street
Phoenix, AZ 85040-2964

TO RETURN PRECISIONPOWER PRODUCTS OUT OF WARRANTY: Return the unit, postage prepaid, in the original protective carton. Please include a description of the problem and, if desired, a request for an estimate of repair costs. Unless a request for an estimate is included, the unit will be repaired as necessary. Please contact PrecisionPower Customer Service at 1-800-62-POWER for questions concerning out of warranty repair charges. Repaired unit will be returned with an itemized statement, C.O.D.

BACK TO CONTENTS