




PICASSO LIMITED SUBWOOFERS

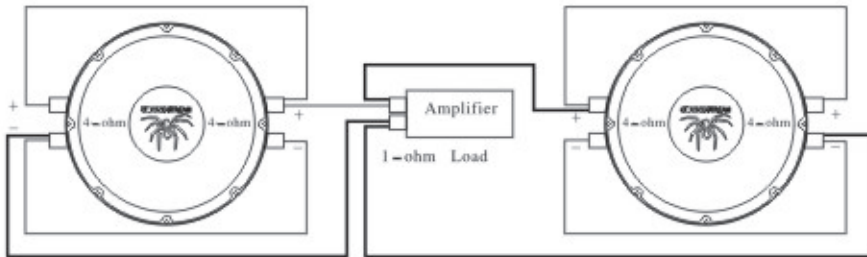
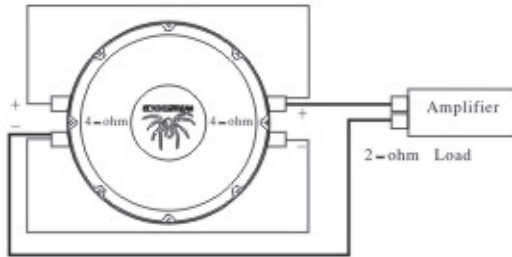
PW-10L PW-12L PW-15L

OWNER'S MANUAL AND
INSTALLATION GUIDE

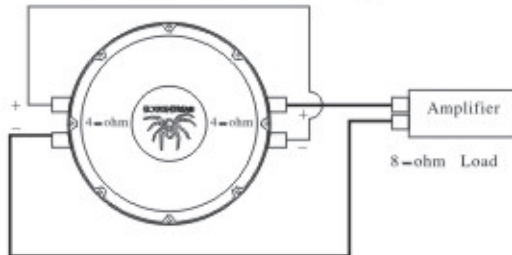
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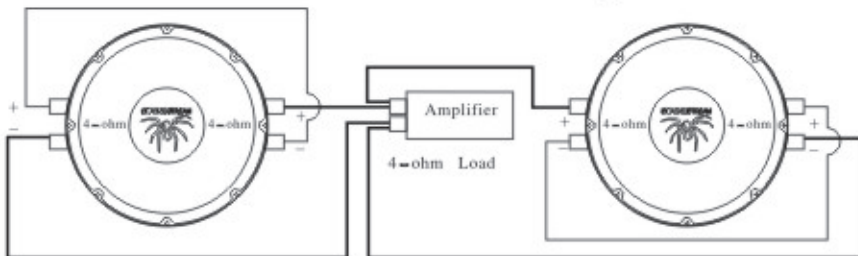
Parallel voice coil configuration



Series voice coil configuration



Series/Parallel voice coil configuration



PICASSO LIMITED Woofers

Congratulations on your purchase of one of the finest woofers available for your vehicle today.

PICASSO Woofers are nothing short of engineering genius. Shock Wave technology bridge the gap between sound quality and SPL. Our engineers have increased the cone area while extending the X-max (vertical movement) to achieve maximum shock Wave.

Please take a few moments fill out the warranty card and review this manual before installing this woofer for proper connections and box sizes.

Design Features

- High Roll Foam Surround
- PP Injection Cone
- Black Poly Cotton Spider
- Integrated Tinsel Leads
- Discrete Mount Terminals
- Dual 4 Ohm Voice Coil
- Aluminum Voice Coil Former
- Chrome Stamped Basket
- Chrome Injection Motor Cover
- Hard Rubber Wrap-Around Gasket

Building the Enclosure

Determine the dimensions of your enclosure.

Be certain the box dimensions that you have will fit in the location you have chosen in your vehicle. Sometimes making a cardboard box with the same outside dimensions is helpful.

It is recommended to use 3/4 inch thick MDF (medium density fiberboard) to build your speaker box.

Use a "T" square to verify precise right angle cuts before you assemble the box.

Use high quality wood glue and screws to assemble the box to guarantee an airtight box that will not come apart due to excess vibration and pressure.

It is recommended for high fidelity, sealed enclosures to stuff the interior of the box with approximately 50% Dacron or Polyester fiberfill for increased sound damping and woofer performance.

For ported enclosures, it is recommended to staple 1" thick fiberglass insulation to the interior walls of your box.

Use slide on connectors for spade style connectors or bare wire for push and screw terminals. Do not solder the wire to the factory connectors as this may cause damage to the voice coil or tinsel lead and may void your warranty.

Parameters

Spec/Model		PW-10L	PW-12L	PW-15L
Max Power	Watts	600	700	800
RMS Power	Watts	300	350	400
V. C Imp	Ohm	4 Ω × 2	4 Ω × 2	4 Ω × 2
V. C. Size.	Inch	2.0	2.0	2.0
Mag. Wgt. oz	oz	50	50	50
Freq. Resp.	Hz	24–2K	22–1.7K	20–1K
Fs	Hz	40	37.5	34
Qes		0.92	0.975	1.076
Qms		4.5	4.5	4.5
Qts		0.72	0.802	0.869
Vas	cu ft	0.609	1.448	3.808
Driver Disp.	cu in	0.0114	0.0176	0.0286
Xmax	Inch	0.394	0.394	0.394
SPL	dB	82.58	85.33	87.93
Hole Dia	mm	228	278	350
Mounting Depth	mm	134	148	176
Outer Dia	mm	263	322	397

Recommended box sizes

Model	PW-10L	PW-12L	PW-15L
Optimum Enclosure	Small Sealed	Small Sealed	Small Sealed
Enclosure Size w/o Driver Displacement	0.75 ft ³	1.2 ft ³	2.0 ft ³
Driver Displacement	0.112 ft ³	0.14 ft ³	0.204 ft ³
Enclosure Qtc (w/QL of 7)	0.889	1.008	1.207
F3 (3dB down point)	45.5 Hz	44.5 Hz	43.5 Hz
Recommended Damping	None	None	None

Model	PW-10L	PW-12L	PW-15L
Optimum Enclosure	Large Sealed	Large Sealed	Large Sealed
Enclosure Size w/o Driver displacement	2.0 ft ³	2.5 ft ³	3.5 ft ³
Driver Displacement	0.112 ft ³	0.14 ft ³	0.204 ft ³
Enclosure Qtc (w/QL of 7)	0.77	0.873	1.053
F3 (3dB down point)	42.5 Hz	40.5 Hz	38.5 Hz
Recommended Damping	None	None	None

Model	PW-10L	PW-12L	PW-15L
Optimum Enclosure	SQ vented	SQ vented	SQ vented
Enclosure Size w/o Driver displacement	1.5 ft ³	2.5 ft ³	3.5 ft ³
Driver & Port Displacement	1.1406 ft ³	0.2095 ft ³	0.3568 ft ³
Port Size (Inner Dimensions)	3" x 7"	2" x (3" x 8.5")	2" x (4" x 10.5")
Port Tuning Frequency	36 Hz	36 Hz	36 Hz
Recommended Damping	None	None	None

Recommended Wiring

The following page will give you a few different options to match the impedance of the woofers to the impedance capability of the amplifier. Please read and follow the diagrams closely to insure maximum woofer performance.