



## S15L5 / S12L5 / S10L5 / S8L5

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*Congratulations! You have just purchased one of the most advanced subwoofers in the history of car audio. Your KICKER Solo-Baric is the latest in KICKER's trend-setting Solo-Baric line, designed and engineered to deliver the ultimate in low bass performance and unmatched durability. Thanks for buying KICKER. Enjoy*

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### Solo-Baric Features

#### NEW For 2002 !

- **Increased Surround Radius** Provides increased Xmax for more low bass output and higher SPL.
- **WARG (Wrap Around Gasket)** One piece rubber front and rear gasket provides greater durability, resistance to separation and provides a better seal to eliminate air leaks.
- **SSD (Spun Spoke Design)** Enhances the cosmetics and provides a solid anti-resonant foundation for the motor assembly.
- **Perimeter Venting** the offset vents create a vortex cooling effect around the voice coil.
- **ISD (Inverted Structural Dome™)** further increases cone's resistance to flex under pressure.
- **Stitched Surround** (patent pending) prevents cone/surround separation at high excursions.
- **Dual Ultra-Length Voice Coils** for enormous cone excursion and flexible wiring options.
- **High-Temp Kapton Voice Coil Former** for better sonic and thermal performance, prevents cone meltdown.
- **Blackened One Piece Uniplate™ with Vented Hyper-Extended Pole**
  1. provides enhanced heat transfer for cool operation and maximum power handling.
  2. reduces non-linear magnetic fields around the voice coil gap for superior cone motion control.
  3. releases pressure under ISD for freer cone motion and enhanced low bass.
- **Sleeved High-Power Tinsel Lead Wires** to resist lead breakage and power-robbing resistance losses.
- **Spring-Loaded Nickel Plated Terminals** for solid connections with large gauge speaker wire.

# Specifications

Model	Max amp Power (watts)	Sensitivity (dB 1w/1m)	Voice Coil (in./cm)	Xmax (in./cm)	Mounting Cutout (in./cm)	Outer Flange (in./cm)	Mounting Depth (in./cm)
<b>S15L5</b>	750	87.5	2.5	.61	13.75 x 13.75	15.6 x 15.6	7.84
			6.35	1.55	34.92 x 34.92	39.6 x 39.6	19.91
<b>S12L5</b>	600	86.9	2.0	.49	11.0 x 11.0	12.54 x 12.54	6.33
			5.08	1.25	27.94 x 27.94	31.85 x 31.85	16.08
<b>S10L5</b>	450	85.6	2.0	.49	9.25 x 9.25	10.66 x 10.66	5.69
			5.08	1.25	23.49 x 23.49	27.08 x 27.08	14.45
<b>S8L5</b>	300	83.2	2.0	.38	7.25 x 7.25	8.8 x 8.8	4.86
			5.08	.97	18.42 x 18.42	22.35 x 22.35	12.34

Based on measurements of Dual 2 Ohm models

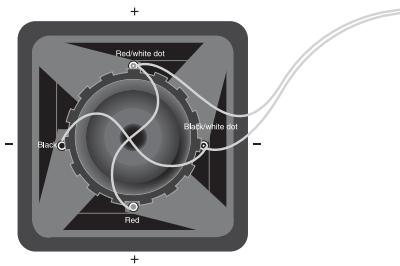
# Wiring options

Solo-Baric L5 woofers are available with dual 2 Ohm or dual 4 Ohm voice coils. Both coils should always be hooked up.

The dual 2 Ohm woofer will give you a 1 Ohm or a 4 Ohm load depending on if the coils are wired in parallel or in series. The dual 4 Ohm woofer will give a 2 Ohm or 8 Ohm load depending on how they are wired.

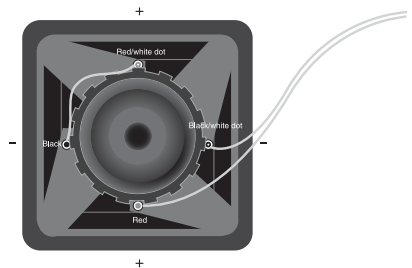
The terminals with solid red and black markings are for one voice coil. The terminals with the white dots are for the second voice coil.

## Parallel Wiring



**Dual 2 Ohm = 1 Ohm Load**  
**Dual 4 Ohm = 2 Ohm Load**

## Series Wiring



**Dual 2 Ohm = 4 Ohm Load**  
**Dual 4 Ohm = 8 Ohm Load**

# Cutout Dimensions

Corner Radius:

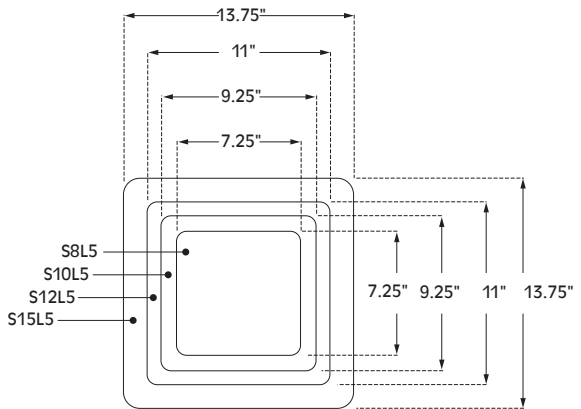
S15L5 - 1.0"

S12L5 - .625"

S10L5 - .625"

S8L5 - .625"

1 inch = 2.54cm



# Box Building Notes

The cardboard support inside your Solo-Baric's shipping carton can be used as a template for cutting the speaker mounting hole in the enclosure you build. Since the cardboard cutout is the same size as the basket of the L5, when you make the cut along the line drawn through the template, make sure to cut right on the line to get the correct opening size.

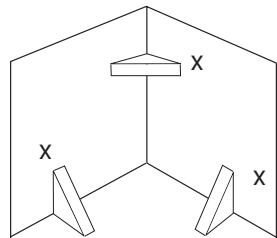
All the cubic feet numbers given in the following pages include the displacement of the woofer. For the ported boxes the displacement of the port must be added to the final design. It will be impractical to use round ports for these designs. The rectangular port information given will yield the best results.

Always use 3/4" or thicker MDF and make sure all the joints are secure and well sealed. The peak pressure in a ported box can exceed that of a sealed enclosure.

All of these designs need some internal bracing. Be sure to add 2"x 2" (5.08cm x 5.08cm) to 3"x 3" (7.62cm x 7.62cm) triangle braces between each of the larger unsupported panels. Kicker recommends using a good grade of wood glue and silicone sealer for an airtight box.

Note: If you prefer an ultra-smooth bass response, you should loosely fill your Solo-Baric Enclosure with polyfil. Ported designs will require covering the entrance to the port (inside the box) with hardware cloth, chicken wire, or expanded metal to prevent the polyfil from being blown out through the port. Use of polyfil will slightly decrease efficiency, but will deepen and extend low bass response.

Do not install a ported box with the port against a solid surface. The port opening must remain unobstructed. Use the smallest dimension of the rectangular port as the minimum amount of space required between the port and any surface to insure unrestricted airflow.



X = 3" x 3" for S15L5, S12L5

X = 7.62cm x 7.62cm

X = 2" x 2" for S10L5, S8L5

X = 5.08cm x 5.08cm

For more advice on box building, see the Choosing and Building Enclosures page in the Tech Tips & FAQs section of the Support area on the Kicker website, [www.kicker.com](http://www.kicker.com) or call Technical Services at 1-405-624-8583.

### A note on power handling capability

Solo-Baric subwoofers will handle massive amounts of power in any of the recommended enclosures, minimum or maximum. The smaller enclosures are best for use in limited space applications. The larger (maximum) recommended enclosures will yield slightly more bass at the lowest frequencies. The power ratings given are assuming that both voice coils are used. You should never hook up a dual voice coil woofer using only one coil.

## Recommended Enclosures

### Solo-Baric L5-Series Sealed Enclosure Applications

The Kicker Solo-Baric L5 is designed to give more output than an equivalent round speaker and is amazing when used in the recommended sealed boxes. These sealed enclosure recommendations will give the smoothest response with the most energy at really low frequencies, around 20 to 30 Hz.

The recommended Compact sealed boxes have the highest power handling capability of all our recommended enclosure designs. They deliver massive amounts of high impact bass and can be driven with punishing levels of amplifier power.

One of the benefits of the Solo-Baric L5-series high performance suspension system is that they can operate in larger sealed enclosures for ultra sound quality (SQ) applications without significantly sacrificing their power handling. Solo-Baric L5 enclosures can be "sized up" all the way to a .707 Qtc enclosure, which has a very flat response, with greatly extended sub bass.

Solo-Baric L5 series woofers also perform well in any sealed enclosure between the Compact and SQ sizes. These systems will exhibit some benefits of both (high impact and low extension) generally sounding more like the box to which they are most closely sized.

These enclosure volume recommendations are for the airspace inside the enclosure and include the displacement of the woofer. Do not make the airspace any greater than recommended.

### Recommended Sealed Enclosures – Moderate Efficiency

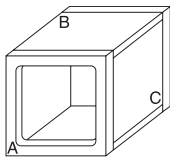
<b>Model</b>	<b>Compact (Minimum enclosure Vol.)</b>	<b>SQ (.707 alignment) (Maximum enclosure Vol.)</b>
S8L5	.33 cu.ft. Power Handling = 300W <i>9.34 l</i>	.75 cu.ft. Power Handling =300W <i>21.24 l</i>
S10L5	.66 cu.ft. Power Handling = 450W <i>18.69 l</i>	1.0 cu.ft. Power Handling = 450W <i>28.32 l</i>
S12L5	.88 cu.ft. Power Handling = 600W <i>24.92 l</i>	2.0 cu.ft. Power Handling = 600W <i>56.64 l</i>
S15L5	1.5 cu.ft. Power Handling = 750W <i>42.48 l</i>	6.0 cu.ft. Power Handling = 750W <i>169.92 l</i>

The following page shows examples of the minimum enclosure sizes for each of the Solo-Baric L5s. Panel dimensions assume 3/4" wood thickness.

**Panel dimensions for minimum recommended enclosures:**

Model	Volume (cu.ft.)	Panel A	Panel B	Panel C
S8L5	0.33	10"x10"	10"x8"	8"x8.5"
S10L5	0.66	12"x12"	12"x10.5"	10.5"x10.5"
S12L5	0.88	13"x13"	13"x11.5"	11.5"x11.5"
S15L5	1.5	16.5"x16.5"	16.5"x11.5"	15"x11.5"

1 inch = 2.54cm  
1cu.ft. = 28.32l



NOTE: All sealed boxes should be 50% filled with loose polyfil. Allow about two weeks break-in time for the Solo-Barics to reach optimum low bass performance.

**Solo-Baric L5-Series Ported/Vented Enclosure Applications**

Ported Solo-Barics? Absolutely ... and with a vengeance! These enclosures incorporate massive slot loaded ports with ultra low air velocity for ground pounding street bass that will make your hair stand on end (if you have any left)! These are the type of boxes that are the "enclosure of choice" for outrageous street bass and high performance SPL contests.

The following chart shows three recommended ported enclosures for each Solo-Baric driver.

Compact has increased bass efficiency over a sealed enclosure, yet can still fit in tighter applications. It is the smallest design that will work well for each woofer. Although it is the smallest ported enclosure, the output from 30 to 80 Hz will be considerably higher than that of a sealed box. The two other ported designs have proportionately more output in this region.

Street Bass is a medium sized enclosure that will kick out bass that can be heard for blocks away. And it does go LOW!

SPL / Deep Bass is a large enclosure with high efficiency that will deliver the output needed to win SPL contests AND produce bass output all the way down to the basement. We're talking truly awesome!

If space is not at a premium and you want to get the most from your Solo-Baric L5, try one of these designs. You won't be disappointed.

**Recommended Ported Enclosures – High Efficiency**

Model	Compact	Street Bass	SPL / Deep Bass
<b>S8L5</b>	.66 cu.ft. + port; 1.5x9.5" port, 19.25" long Power Handling = 300W	.8 cu.ft. + port; 1.75x9.5" port, 19.75" long Power Handling = 300W	1.0 cu.ft. + port; 2x9.5" port, 21.25" long Power Handling = 300W
<b>S10L5</b>	1.25 cu.ft. + port; 2.5x11.25" port, 19.75" long Power Handling = 425W	1.75 cu.ft. + port; 2.75x11.25", port 17.75" long Power Handling = 450W	2.25 cu.ft. +port; 3x11.25" port, 18" long Power Handling = 450W
<b>S12L5</b>	1.75 cu.ft. + port; 2.5x13.25" port, 22.5" long Power Handling = 600W	2.5 cu.ft. + port; 2.5x13.25" port, 16.5" long Power Handling = 600W	3.25 cu.ft. + port; 3x13.25" port, 14.5" long Power Handling = 600W
<b>S15L5</b>	3.0 cu.ft. + port; 2.5x16.25" port, 19.5" long Power Handling = 750W	4.5 cu.ft. + port; 3x16.25" port, 14.75" long Power Handling = 750W	6.0 cu.ft. + port; 3.5x16.25"port, 13.75" long Power Handling =750W

NOTE: The use of a subsonic filter is necessary to insure the life of the woofer in a ported enclosure! Without a subsonic filter assume a 30% decrease in power handling.

# NOTES

# SPEAKER SYSTEMS LIMITED WARRANTY

Kicker warrants this product to be free from defects in material and workmanship under normal use for a period of **THREE (3) MONTHS** from date of original purchase. When purchased from an Authorized KICKER Dealer it is warranted for **ONE (1) YEAR** from date of original purchase. If the product is labeled "B Stock" and purchased from an Authorized KICKER Dealer, it is warranted for **THREE (3) MONTHS** from date of purchase, regardless of place of installation. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction during the warranty period, Kicker will replace or repair (at its discretion) the defective merchandise with equivalent merchandise at no charge. Warranty replacements on "B-Stock" merchandise may have cosmetic scratches and blemishes. Discontinued products may be replaced with more current equivalent products.

This warranty is valid only for the **original purchaser** and is not extended to owners of the product subsequent to the original purchaser. Any applicable implied warranties are limited in duration to a period of the express warranty as provided herein beginning with the date of the original purchase at retail, and no warranties, whether express or implied, shall apply to this product thereafter. Some states do not allow limitations on implied warranties, therefore these exclusions may not apply to you.

This warranty gives you specific legal rights; however you may have other rights that vary from state to state.

## WHAT TO DO IF YOU NEED WARRANTY OR SERVICE

Defective merchandise must be returned to your local Authorized Stillwater Designs (Kicker) Dealer for warranty. Assistance in locating an Authorized Dealer can be obtained by writing or calling Stillwater Designs direct. You can confirm that a dealer is authorized by asking to see a current authorized dealer window decal.

If it becomes necessary for you to return defective merchandise, call the Kicker Customer Service Department at (405)624-8510 for a Return Authorization (RMA) number. Package all defective items in the original container or in a package that will prevent shipping damage, and return to

**Stillwater Designs, 5021 North Perkins Road, Stillwater, OK 74075**

The RMA number must be clearly marked on the outside of the package. Return only defective components. Return of entire cabinets, system packs, pairs, etc. increases your return freight charges. Non-defective items received will be returned freight collect.

Include a dated **proof-of-purchase** stating the Customer name, Dealer name, product purchased and date of purchase. Warranty expiration on items without proof-of-purchase will be determined from type of sale and the manufacturing date code. Freight must be prepaid; items received freight collect will be refused.

Failure to follow these steps may void your warranty. Any questions can be directed to the Kicker Customer Service Department at (405)624-8510.

## WHAT IS NOT COVERED?

This warranty is valid only if the product is used for the purpose for which it was designed. It does not cover:

- Damage due to improper installation
- Subsequent damage to other components
- Damage caused by exposure to moisture, excessive heat, chemical cleaners, and/or UV radiation
- Damage through negligence, misuse, accident or abuse. Repeated returns for the same damage may be considered abuse.
- Any cost or expense related to the removal or reinstallation of product
- Speakers damaged due to amplifier clipping or distortion
- Items previously repaired or modified by any unauthorized repair facility
- Return shipping on non-defective items
- Products with tampered or missing barcode labels
- Products returned without a Return Authorization (RMA) number
- Freight Damage
- The cost of shipping product to Kicker
- Service performed by anyone other than Kicker
- Speaker with any foreign caulk used for gasket material

## HOW LONG WILL IT TAKE?

Kicker strives to maintain a goal of 24-hour service for all returns. Delays may be incurred if lack of replacement inventory or parts is encountered.

## INTERNATIONAL WARRANTY

Contact your International Kicker dealer or distributor concerning specific procedures for your country's warranty policies.



P.O. Box 459 • Stillwater, Oklahoma 74076 • U.S.A. • 405 624-8510

**STILLWATER**  
*Designs*®

# WARNING:

KICKER drivers are capable of producing sound levels that can permanently damage your hearing! Turning up a system to a level that has audible distortion is more damaging to your ears than listening to an undistorted system at the same volume level. The threshold of pain is always an indicator that the sound level is too loud and may permanently damage your hearing. Please use common sense when controlling volume!

**KICKER**<sup>®</sup>  
**LIVIN' LOUD**