

OWNER'S MANUAL



SERIES

Subwoofers

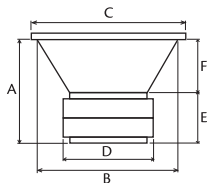
RELEASE
THE
BEAST®



RE AUDIO
RE AUDIO
RE AUDIO
RE AUDIO
RE AUDIO



Dimensions



Model	SE Pro10	SE Pro12	SE Pro15	SX Pro10	SX Pro12	SX Pro15	SX18
Mounting Depth [A], inches	6.4	6.9	8.4	6.4	6.9	8.4	9.5
Mounting Hole Diameter [B], inches	9.3	11.2	14.0	9.3	11.2	14.0	16.75
Overall Diameter [C], inches	11.0	12.5	15.5	11.0	12.5	15.5	18.5
Bolt Hole Circle, inches	10.1	11.75	14.65	10.1	11.75	14.65	17.5
Motor Width [D], inches	7.3	7.3	7.3	7.3	7.3	7.3	6.5
Motor Depth [E], inches	3.4	3.44	3.6	3.4	3.44	3.6	3.25
Basket Depth [F], inches	2.94	3.46	4.8	2.94	3.46	4.8	6.25
Displacement, cubic feet	0.14	0.15	0.17	0.15	0.16	0.18	0.22
Weight, lb	21.0	21.5	23.5	24.0	24.5	27.6	28.0

Specifications

(continued on the next page)

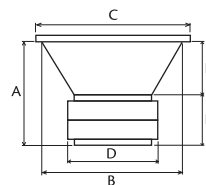
Model	RT Pro8	RT Pro10	RT Pro12	SR Pro10	SR Pro12	SR Pro15
Electrical Q Value [Qes]	0.30	0.35	0.42	0.39	0.41	0.45
Mechanical Q Value [Qms]	2.75	3.71	2.12	5.5	4.99	4.87
Total Speaker Q Value [Qts]	0.27	0.32	0.35	0.36	0.38	0.41
Free Air Resonance [Fs], Hz	33.6	23.3	25.0	25.3	23.6	23.0
Equivalent Compliance [Vas], liters	20.2	106	143	31.0	85.0	203.0
One-Way, Linear Excursion [Xmax], mm	15.0	15.0	15.0	18.0	18.0	18.0
Efficiency [SPL 1W/1m], dB	85.9	87.6	89.3	85.3	86.2	87.6
Effective Piston Area [Sd], cm ²	227	430	590	310	480	810
DC Resistance Per Coil [Re], Ohm	3.6	3.6	3.6	1.8	1.8	1.8
Nominal Impedance [Znom]	4	4	4	2 or 4	2 or 4	2 or 4
Thermal Power Handling [Pe], Watts	200	200	200	300	300	300
Force Factor [Bl]	10.12	9.36	9.78	14.35	14.35	14.35

Specifications

Model	SE Pro10	SE Pro12	SE Pro15	SX Pro10	SX Pro12	SX Pro15	SX18
Electrical Q Value [Qes]	0.46	0.49	0.55	0.29	0.32	0.38	0.53
Mechanical Q Value [Qms]	4.4	4.5	4.3	4.3	4.4	4.7	6.1
Total Speaker Q Value [Qts]	0.42	0.44	0.19	0.27	0.30	0.38	0.48
Free Air Resonance [Fs], Hz	26.6	25.1	22.0	30.7	30.6	27.8	33.2
Equivalent Compliance [Vas], liters	31.0	72.9	209.0	21.8	47.6	126.3	159.0
One-Way, Linear Excursion [Xmax], mm	18.0	18.0	18.0	22.0	22.0	22.0	22.0
Efficiency [SPL 1W/1m], dB	83.2	86.1	88.0	85.2	88.1	90.4	92.7
Effective Piston Area [Sd], cm ²	310	480	810	310	480	810	1210
DC Resistance Per Coil [Re], Ohm	2.8	2.8	2.8	1.9	1.9	1.9	1.9
Nominal Impedance [Znom]	2 or 4	2 or 4	2 or 4	2 or 4	2 or 4	2 or 4	2 or 4
Thermal Power Handling [Pe], Watts	600	600	600	1000	1000	1000	1000
Force Factor [Bl]	17.7	17.7	17.7	21.0	21.0	21.0	21.0

Dimensions

(continued on the next page)



Power Handling Capacity

RE subwoofers will handle large amount of power in any of the recommended enclosures, sealed or vented. The smaller enclosures are best for use in limited-space applications. The larger recommended enclosures will yield slightly more bass at the lowest frequencies. The listed Power Handling capacities assume that both voice coils are in use. Always connect both coils in a dual voice-coil speaker.

Model	RT Pro8	RT Pro10	RT Pro12	SR Pro10	SR Pro12	SR Pro15
Mounting Depth [A], inches	4.9	5.5	6.3	6.0	6.5	7.9
Mounting Hole Diameter [B], inches	7.3	9.3	11.0	9.3	11.0	14.0
Overall Diameter [C], inches	8.7	10.9	12.8	10.9	12.8	15.6
Bolt Hole Circle, inches	8.0	10.5	12.0	10	12.0	14.7
Motor Width [D], inches	4.875	4.875	4.875	6.7	6.7	6.7
Motor Depth [E], inches	2.6	2.6	2.6	3.0	3.0	3.0
Basket Depth [F], inches	2.3	2.9	3.7	3.0	3.5	4.9
Displacement, cubic feet	0.07	0.09	0.10	0.12	0.14	0.16
Weight, lb	6.2	6.8	7.5	15.4	16.0	16.5

Enclosure Info

(Ported enclosure application - high efficiency)

- The Compact design increases bass efficiency and fits in many space-limited applications. Although it is the smallest recommended ported enclosure, the output from 30 to 80 Hz will be considerably higher than that of any sealed box.
- The Optimum is the largest and most efficient enclosure design. It delivers the sonic output needed to win SPL competitions.

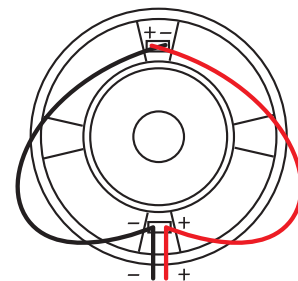
(PD: Port Displacement)

Model	RT Pro 8	RT Pro10	RT Pro12	SR Pro10	SR Pro12	SR Pro15
Ported (Compact), cubic feet	0.35+PD	0.65+PD	1.25+PD	0.65+PD	1.25+PD	2.5+PD
Tuning, Hz	35	35	35	35	35	35
Ported (Optimum), cubic feet	0.5+PD	1.0+PD	1.5+PD	1.0+PD	1.5+PD	3.0+PD
Tuning, Hz	35	35	35	35	35	34

Model	SE Pro10	SE Pro12	SE Pro15	SX Pro10	SX Pro12	SX Pro15	SX18
Ported (Compact), cubic feet	1.0+PD	1.5+PD	3.0+PD	1.0+PD	1.5+PD	3.0+PD	5.5+PD
Tuning, Hz	35	35	35	35	35	35	35
Ported (Optimum), cubic feet	1.25+PD	2.0+PD	4.0+PD	1.25+PD	2.0+PD	4.0+PD	8.0+PD
Tuning, Hz	34	33	34	34	33	34	34

Wiring Diagram

(For DUAL Voice Coil Woofers)



PARALLEL WIRING

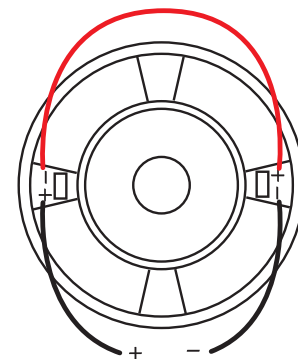
Impedance per Coil	1 Ω	2 Ω	4 Ω
Resulting Impedance	0.5 Ω	1 Ω	2 Ω

SERIES WIRING

Impedance per Coil	1 Ω	2 Ω	4 Ω
Resulting Impedance	2 Ω	4 Ω	8 Ω

The diagram shows subwoofers with dual 1, 2 or dual 4 Ω(Ohm) voice coils. Both coils must be connected to a source of amplification.

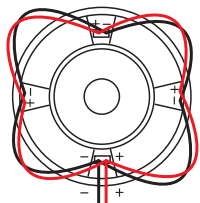
The dual 1 Ω woofer will generate a 0.5 Ω load if the coils are wired in parallel or a 2 Ω load in series.
 The dual 2 Ω woofer will generate a 1 Ω load if the coils are wired in parallel or a 4 Ω load in series.
 The dual 4 Ω woofer will provide a 2 Ω load wired in parallel or 8 Ω load wired in series.



Wiring Diagram

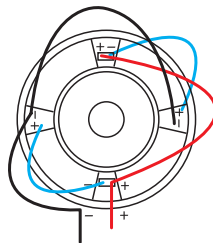
(For QUAD Voice Coil Woofers)

The diagram shows subwoofers with quad voice coils. All coils must be connected to a source of amplification.



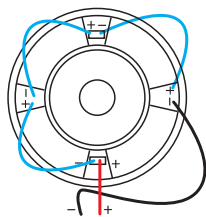
PARALLEL WIRING

Final Impedance = Individual Impedance / 4



PARALLEL/SERIES COMBINATION WIRING

Final Impedance = Individual Impedance



SERIES WIRING

Final Impedance = Individual Impedance X 4

Enclosure Info

(Sealed enclosure application - moderate efficiency)

RE subwoofers perform well in any size sealed enclosure between Compact and Optimum volume recommendations. These systems will exhibit benefits of both designs: "Compact" produces high impact bass and "Optimum" generates greater low bass frequency extension.

(N/R: Not recommended)

Model	RT Pro8	RT Pro10	RT Pro12	SR Pro10	SR Pro12	SR Pro15
Sealed (Compact), cubic feet	0.3	0.35	0.4	0.35	0.5	1.5
Sealed (Optimum), cubic feet	0.35	0.5	0.75	0.5	0.75	2.0

Model	SE Pro10	SE Pro12	SE Pro15	SX Pro10	SX Pro12	SX Pro15	SX18
Sealed (Compact), cubic feet	0.4	0.75	1.5	N/R	N/R	N/R	N/R
Sealed (Optimum), cubic feet	0.65	1.0	2.0	N/R	N/R	N/R	N/R