RFV/10/12

SUBWOOFERS

OWNER'S MANUAL AND INSTALLATION GUIDE

SOUNDSTREAM

Reference Woofers

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

Technological innovation is the best way to describe Reference woofers. The Reference woofers use low distortion, Fiber glass cones integrated with black anodized aluminum voice coil formers for unparalleled control and dead center accuracy. Reference woofers are nothing short of sound Q genius. Own a glimpse of the future. Own Reference.

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

Design Features

RFW-10

10" High Performance SQ Subwoofer
Proprietary Cast Aluminum Basket
UDV Cooling Technology
Low Distortion Fiber Glass Cone
Black Progressive Roll Conex Spider
C-Lock Rubber Gasket
XLS Santoprene Surround
Dual 4-ohm Voice Coil
2.5" Black Aluminum Voice Coil Former
Woven Tinsel Leads
Vented & Extended Pole Piece
Low Carbon Top & Bottom Plate
Rubber Magnet Cover
100 oz. Dual Stack Magnets
500 watts RMS Power Handling

RFW-12

12" High Performance SQ Subwoofer
Proprietary Cast Aluminum Basket
UDV Cooling Technology
Low Distortion Fiber Glass Cone
Black Progressive Roll Conex Spider
C-Lock Rubber Gasket
XLS Santoprene Surround
Dual 4-ohm Voice Coil
2.5" Black Aluminum Voice Coil Former
Woven Tinsel Leads
Vented & Extended Pole Piece
Low Carbon Top & Bottom Plate
Rubber Magnet Cover
120 oz. Dual Stack Magnets
600 watts RMS Power Handling

Building the Enclosure

- Determine the dimensions of your enclosure.
- Be certain the box dimensions that you have designed 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 or 1 inch thick MDF (medium density fiberboard) for your box.
 Use a "T" square to verify precise right angle cuts before you assemble the book.
- 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 about 50 75% fiberglass insulation or Dacron 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 wires to the factory connectors as this may cause damage to the voice coil or tinsel lead and may void your warranty./

Parameters

Spec/Model	RFW-10	RFW-12
Max (watts)	1000	1200
RMS (watts)	500	600
Mag. Wgt. (oz)	100	120
V.C. Size (in.)	2.5	2.5
V.C. Imp	4 Ω x2	4 Ω x2
Fs (Hz)	30	26
Vas (Cu. Ft.)	1.4	2.3
Qms	3.0	3.3
Qes	0.59	0.54
Qts	0.49	0.46
Xmax (in.)	0.649	0.649
SPL (dB)	85	87
Primary Enclosure Style	Sealed	Sealed

Recommended box sizes

Sealed

0.874

.5 cubic feet

.56 cubic feet

High Output

Sound Quality

Sealed

0.707

44 Hz

0.096

Loose Fill

L 14.5" x H 14.5" x W 15.3"

1 cubic feet

1.06 cubic feet

RFW-10

Enclosure QTC

F3 (3dB down point)

Driver Displacement

Recommended Damping

Optimum Enclosure Type

Enclosure Size Net (w/o driver displacement)

Enclosure Size Gross (w/o driver displacement)

Recommended Box Dimensions (using .75" material)

F3 (3dB down point)	49 Hz	45 Hz
Recommended Damping	None	Loose Fill
Driver Displacement	0.065	0.065
Recommended Box Dimensions (using .75" material)	L 10.5" x H 10.5" x W 13.5"	L 13.5" x H 13.5" x W 14.22"
RFW-12	High Output	Sound Quality
RFW-12 Optimum Enclosure Type	High Output Sealed	Sound Quality Sealed
	0 1	
Optimum Enclosure Type	Sealed	Sealed

46 Hz

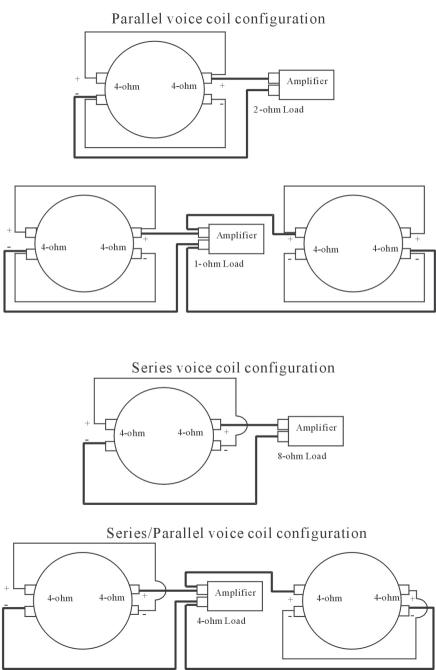
None

0.096

Recommended wiring

L 12.25" x H 12.25" x W 14.2"

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 look and follow the diagrams closely to insure maximum woofer performance.





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