

Technical Manual

Beta 50



ACOUSTIC & ELECTRICAL SPECIFICATIONS:

- Nominal Impedance 8Ω
- Max Amp Power 250 watts*
- Frequency Response 35Hz – 20kHz (±3dB)
30Hz – 40kHz (–6dB)
- Sensitivity 91dB (2.83V @ 1 meter)
- Crossover Frequencies 600Hz, 3.3kHz; 18dB/Octave woofer; 12dB/octave mid/twt

SYSTEM COMPONENTS:

- Cabinet Beta 50 (Not for Sale)
- Grille Black (for BLK) 351605-003
- Grille Gray (for BE & CH) 351605-004
- Low-Frequency Transducer Dual 8" (200mm) CMMD™, magnetically shielded 351509-001
- DC Resistance 7.9 ohms ±10%
- Mid-Frequency Transducer 5" (130mm) CMMD™, magnetically shielded 338568-001
- DC Resistance 4.4 ohms ±10%
- High-Frequency Transducer 1" (25mm) CMMD™, magnetically shielded 351572-001
- DC Resistance 3.5 ohms ±10%
- Crossover Network 351604-001

AURAL SWEEP TEST SPECIFICATIONS:

- System Aural Sweep Test 6.0V Input 30Hz to 20kHz
- L.F. Aural Sweep Test 5.0V Input 30Hz to 1kHz
- M.F. Aural Sweep Test 4.0V Input 500Hz to 4kHz
- H.F. Aural Sweep Test 2.83V Input 3kHz to 20kHz

PHYSICAL SPECIFICATIONS:

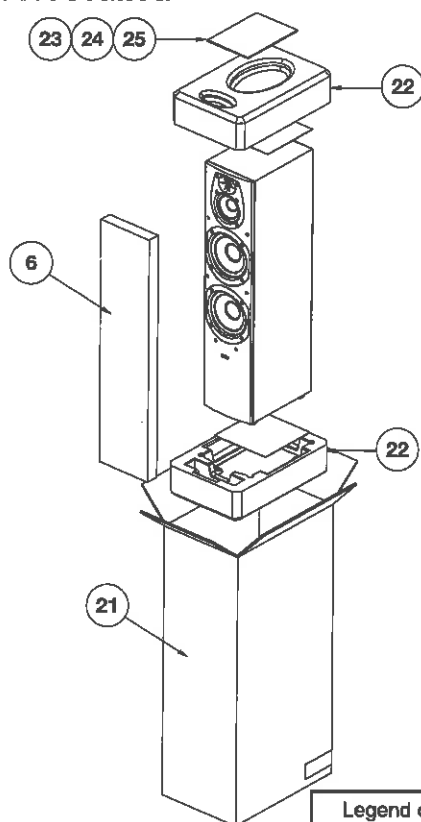
- Dimensions 41-5/16" x 10-7/16" x 14-11/16"
(1050mm x 265mm x 372mm)
- Weight 62.5 lb (28.4kg) Each

WARRANTY:

- Refer to Warranty Statement packed with each product.

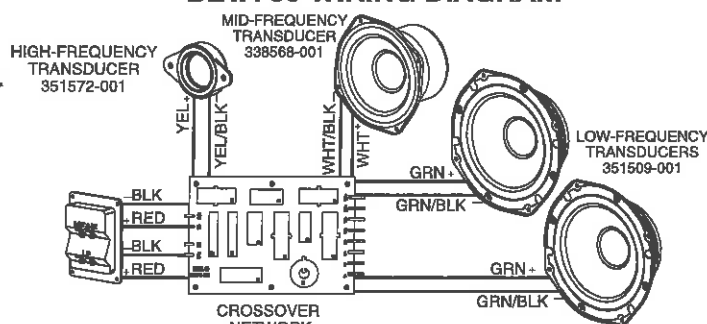
- * The maximum recommended amplifier power rating will ensure proper system headroom to allow for occasional peaks. We do not recommend sustained operation at these maximum power levels.

PACKAGING

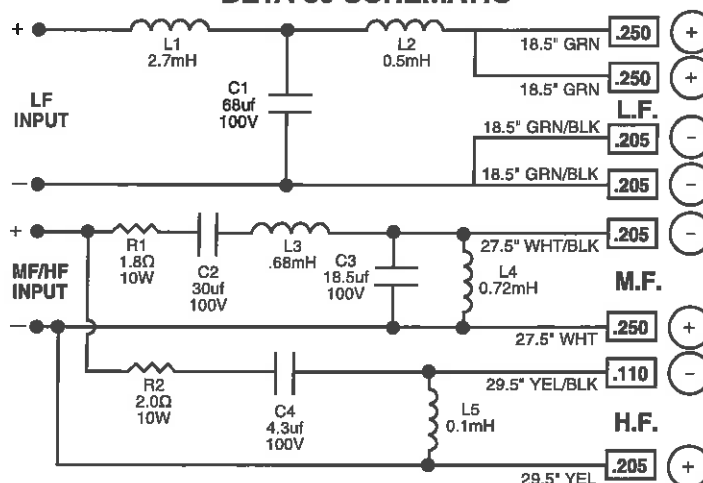


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BETA 50 WIRING DIAGRAM



BETA 50 SCHEMATIC

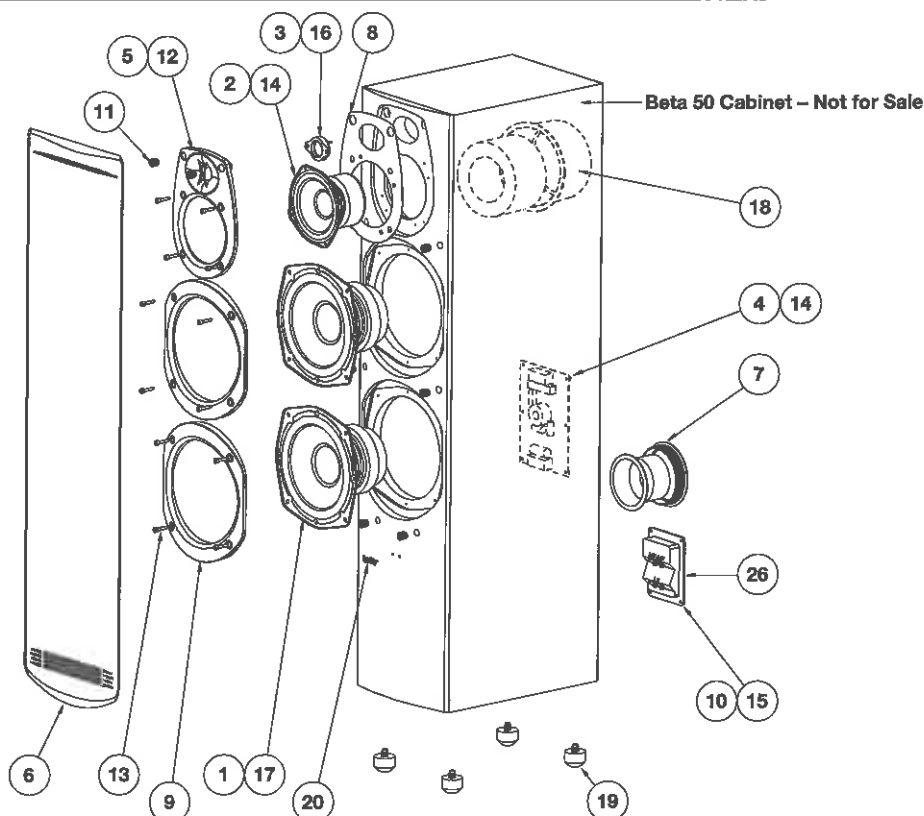


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EXPLODED VIEW



ITEM NO.	DESCRIPTION	QTY.	PART NO.	ITEM NO.	DESCRIPTION	QTY.	PART NO.
1.	Woofer, BT165JWS	2	351509-001	14.	Screw (network, midrange) PB, OVHDPH, #6 x .75"	8	63563
2.	Midrange, BT130HMS	1	338568-001	15.	Screw (terminal cup) PB, PPH, #8 x .75" BLK	4	61867
3.	Tweeter	1	351572-001	16.	Screw (tweeter mounting) MS, PPH, H/L, 6-19 x .375"	2	905401-006
4.	Crossover Network	1	351604-001	17.	Screw (woofer screws) PB, PPH, #8 x .75" BLK	16	900101-012
5.	Faceplate, Black (for BK)	1	351824-001	18.	Midrange Flower Pot, Plastic	1	334072-001
6.	Assy, Grille, Black (for BK)	1	351824-002	19.	Rubber Foot, Blk, Assy	4	338037-002
7.	Assy, Grille, Gray (for BE & CH)	1	351605-003	20.	Logo, Gold/Silver Infinity	1	351617-001
8.	Assy, Port Tube	1	351605-004	21.	Carton-Beta50BK	1	352175-001
9.	Gasket, Faceplate	1	351803-001	22.	Carton-Beta50BE	1	352175-002
10.	Trim Ring, Woofer	1	351920-001	23.	Carton-Beta50CH	1	352175-003
11.	Terminal Cup w/Binding Posts	1	351653-001	24.	End Pad, Top & Bottom	2	352176-001
12.	Cup, Grille (Black for BK)	2	351317-001	25.	Spike Foot Set	1	338076-001
13.	Cup, Grille (Gray for BE & CH)	1	333249-001	26.	Owner's Manual	1	352036-001
14.	Cup, Grille (Gray for BE & CH)	1	333249-003	27.	5-Year Warranty Card, Infinity	1	335841-003
15.	Screw (faceplate 2 top screws only) PB, FPH, #6 x .75"	2	907502-012	28.	Shorting Straps	1 Set	CS06-6
16.	Screw (twf faceplate btm, wfr trim rings) PB, HXS, #8 x 1" BE, CH; same as above for BK model	12	903802-016				
17.		12	72216				

TO SERVICE THE BETA 50

Remove the grille.

1. Tweeter/Midrange: Remove the (2) rubber grille retainers on the mid/twt faceplate; this can be accomplished by carefully pulling them out of their cavities with long-nosed pliers or similar tool.
2. Remove the (2) Phillips screws that are now exposed.
3. Remove the (4) remaining Hex screws on the front faceplate.
4. Carefully separate the front faceplate, with tweeter attached, from the cabinet.
5. Woofer: Remove (4) trim ring screws; remove trim ring. Remove (8) remaining woofer screws.