# Technical Manual
# 4428

**ACOUSTIC & ELECTRICAL SPECIFICATIONS:**

| | |
|---|---|
| • Nominal Impedance | 8 ohms |
| • Max Amp Power | 200 watts* |
| • Frequency Response | 40Hz – 40kHz (–6dB) |
| • Sensitivity | 91dB (2.83V @ 1 meter) |
| • Crossover Frequencies | 900Hz, 7kHz |

**SYSTEM COMPONENTS:**

| | |
|---|---|
| • Cabinet | 4428 (not for sale) |
| • Grille | 351440-001 |
| • UHF Transducer | 7/8" (22mm) 015M<br>351265-001 |
| DC Resistance | 6.7 ohms ±10% |
| • High-Frequency Transducer | 1-3/4" (44.4mm) 175Nd-2<br>339811-001 |
| DC Resistance | 3.7 ohms ±10% |
| • Low-Frequency Transducer | 12" (305mm) 1200FE-8<br>339200-002 |
| DC Resistance | 5.6 ohms ±10% |
| • Crossover Network – LF | 351410-002 |
| HF/UHF w/L-Pad | 351410-001 |

**AURAL SWEEP TEST SPECIFICATIONS:**

| | |
|---|---|
| • System Aural Sweep Test | 6.0V Input 40Hz to 20kHz |
| • L.F. Aural Sweep Test | 6.0V Input 20Hz to 1.5kHz |
| • H.F. Aural Sweep Test | 2.83V Input 500Hz to 8kHz |
| • U.H.F. Aural Sweep Test | 1.0V Input 5kHz to 20kHz |

**PHYSICAL SPECIFICATIONS:**

| | |
|---|---|
| • Enclosure dimensions (H x W x D) | 25" x 16" x 12-1/2"<br>(plus 1" for horn mouth)<br>(635mm x 406mm x 318mm) |
| • Weight | 71 lb (32.3kg) each |

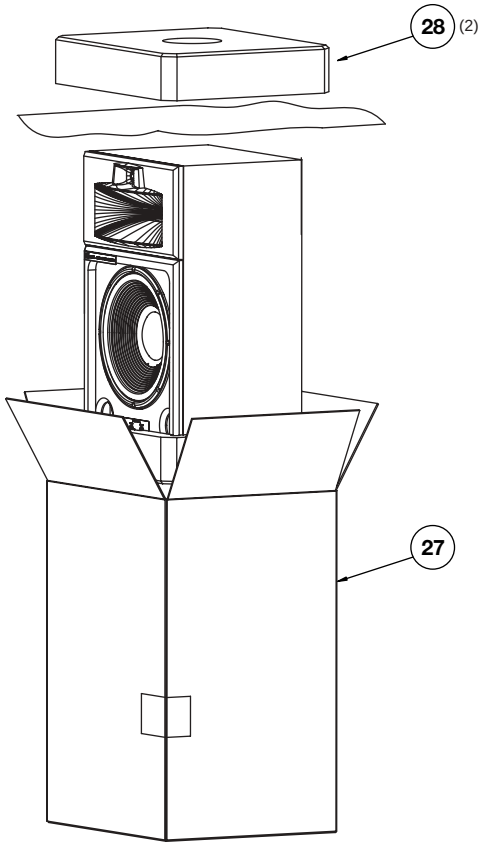
**WARRANTY:**

- Refer to Warranty Statement packed with each product.

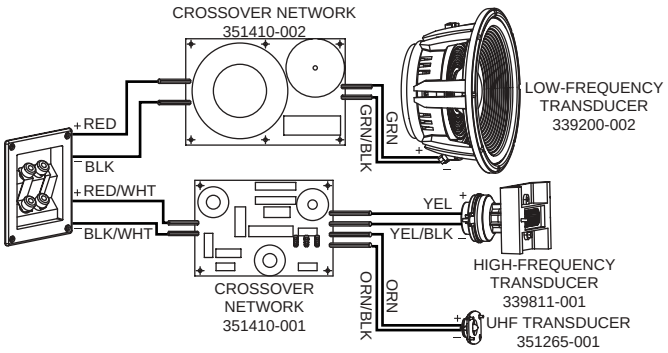
* The maximum recommended amplifier power rating will ensure proper system headroom to allow for occasional peaks. We do not recommend sustained operation at these maximum power levels.

## PACKAGING

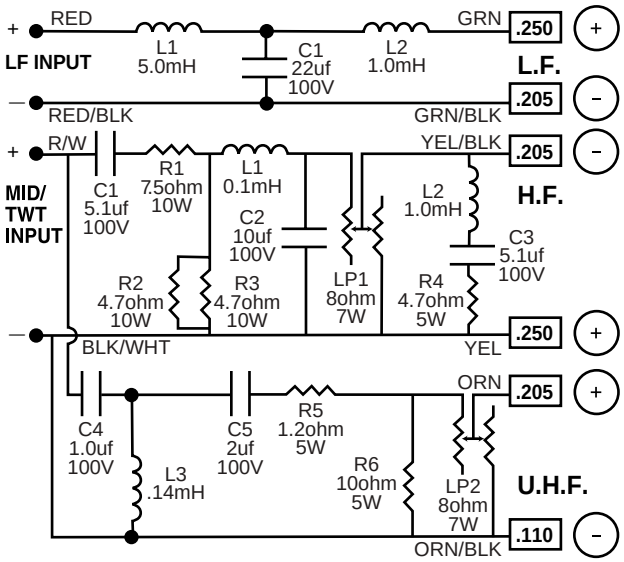
Legend on Page 2




## 4428 WIRING DIAGRAM




## 4428 SCHEMATIC

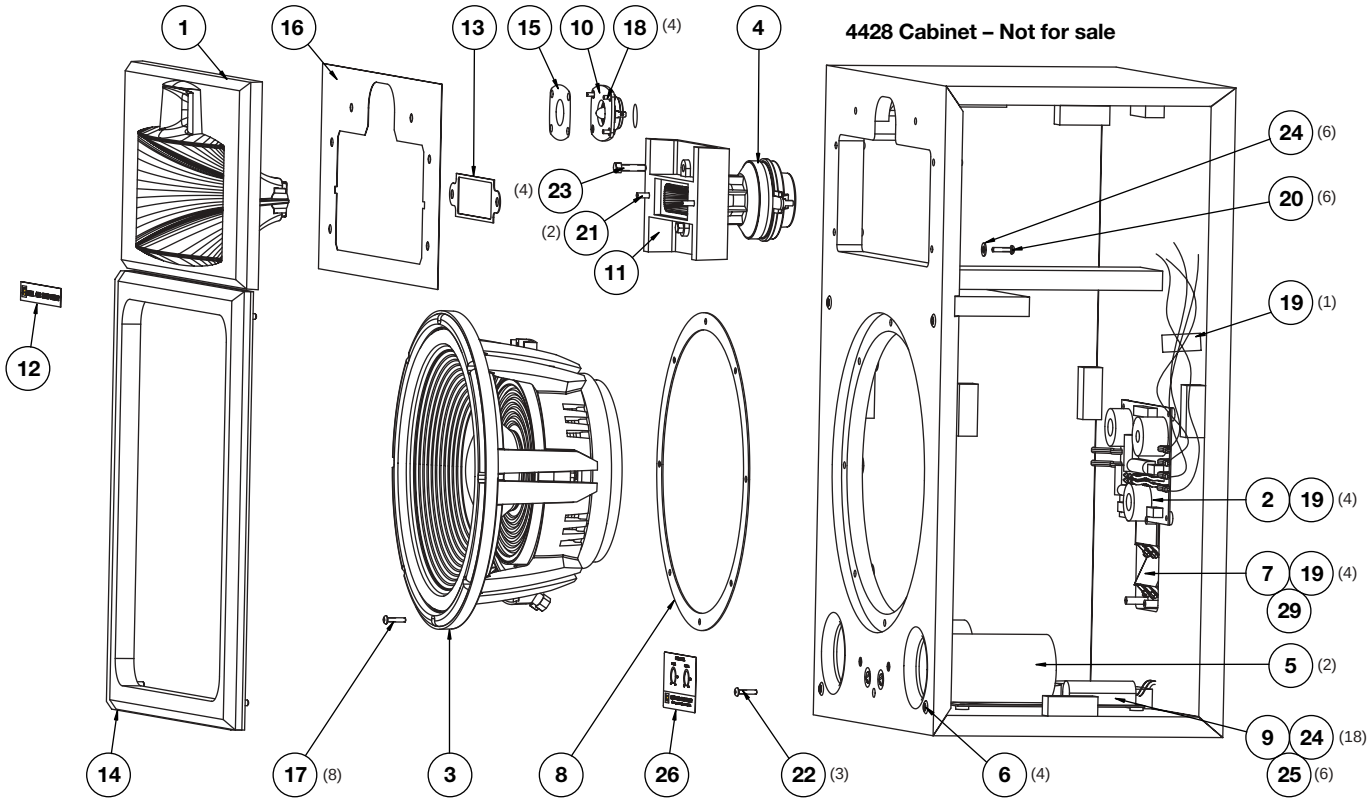



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## EXPLODED VIEW




| ITEM NO. | DESCRIPTION | QTY. | PART NO. |
|---|---|---|---|
| 1. | Horn, HF/UHF, Pntd-4428 | 1 | 351489-001 |
| 2. | Network, HF/UHF, W/L-Pad-4428 | 1 | 351410-001 |
| 3. | Asy, Wfr-1200FE-8 | 1 | 339200-002 |
| 4. | Asy, Tweeter, XDCR-175ND-2 | 1 | 339811-001 |
| 5. | PTB, Crdbd, 2.5x4.75, 1/16THK-4425MKII | 2 | 47909-55 |
| 6. | Cup, Grl-Hls/Studio II Ser | 4 | 333249-001 |
| 7. | Cup, Term-4428 | 1 | 351441-001 |
| 8. | Gskt, Drv, 12"-PMTS | 1 | 335481-001 |
| 9. | Network, LF-4428 | 1 | 351410-002 |
| 10. | Asy, Twtr-UHF-015M | 1 | 351265-001 |
| 11. | Horn, HF, Rear, Pntd-4348 | 1 | 339092-001 |
| 12. | Nameplate-4428 | 1 | 351491-001 |
| 13. | Gskt, Horn, Throat, HF-4348 | 1 | 339702-001 |
| 14. | Grl, Frnt, Cab-4428 | 1 | 351440-001 |
| 15. | Gskt, UHF, Chipbd-4428 | 1 | 351858-001 |
| 16. | Gskt, Horn-4428 | 1 | 351359-001 |
| 17. | Screw (woofer to enclosure) 10-32 X 1-1/2, FIL, PH, BLK ZINC, LCS | 8 | 804-01110-24 |
| 18. | Screw (UHF/horn) 6-32 X 3/8, BTN, HEX, NO FIN, SS | 4 | 802-93056-06 |

| ITEM NO. | DESCRIPTION | QTY. | PART NO. |
|---|---|---|---|
| 19. | Screw (T Cup/HF Ntwk/Tie Wrap) #6 X 3/4, OVHDPH | 9 | 61867 |
| 20. | Screw (horn/cab) 10-32 X 1-1/4, SOC CAP, BLK ZINC, ALLOY | 6 | 874-33114-20 |
| 21. | Screw (horn-frnt to rear) 10-32 X 1-1/4, PAN, PH, BLK ZINC, LCS | 2 | 804-41110-20 |
| 22. | Screw (l-pad/cab) 8-32 X 2", FLT, PH, CLR ZINC, LCS | 3 | 803-11010-32 |
| 23. | Bolt (drvr/rear horn) 1/4-20 X 3/4, CAP, CLR ZINC, MCS | 4 | 854-03001-12 |
| 24. | Washer (horn/cab) #10, Type A, ZINC PL | 24 | 843-00100-05 |
| 25. | Screw (LF ntwk) 8-32 X 1, PAN, PH, PB, BLK ZINC, LCS | 6 | 883-41110-16 |
| 26. | Level Control (L-Pad) Label | 1 | 351442-001 |
| 27. | Outer Carton | 1 | 351490-001 |
| 28. | Top-Bottom Pads | 2 | 351443-001 |
| 29. | Shorting Straps (set R-L) | 1 | CS06-6 |

**TO SERVICE THE 4428:**

**Remove the woofer; crossover network(s) and all drivers must be accessed through the woofer opening in the cabinet.**

**If L-Pad removal is necessary, the three screws for removal are located beneath the Level Control label. If the label cannot be salvaged after removal, order part# 351442-001.**