

# Technical Manual



# JBL VLA601

## SPECIFICATIONS

### ACOUSTIC & ELECTRICAL SPECIFICATIONS:

- Frequency Response: 58 Hz – 12 kHz ( $\pm 3$  dB)
- Frequency Range: 42 Hz – 15 kHz ( $-10$  dB)
- Horizontal Coverage: 60°
- Vertical Coverage: Varies with array size and configuration
- Directivity Factor (Q): 30
- Directivity Index (DI): 15 dB
- System Power Ratings (AES): LF: 1600 W (6400 W Peak, 2 hrs.  
1200 W (4800 W peak), 100 hrs.  
MF: 700 W (2800 W peak), 100 hrs.  
HF: 225 W (900 W peak), 2 hrs.
- Max. Peak Output: LF: 132 dB SPL continuous average  
MF: 137 dB SPL continuous average  
HF: 141 dB SPL continuous average

### TRANSDUCER SECTION:

- Cabinet: (Not For Sale)
- Grille: 361798-001
- Low Frequency Driver: 2 x 2226HPL 380 mm (15 in) driver with 100 mm (4 in) voice coil
- Nominal Impedance: 4 ohms
- Sensitivity (1 w @ 1 m): 100 dB SPL

- Mid Frequency Driver: 2 x 2169H 200 mm (8 in) cone midrange compression driver with dual 75 mm (3 in) voice coil 339111-001X
- Nominal Impedance: 4 ohms
- Sensitivity (1 w @ 1 m): 106 dB SPL
- High Frequency Driver: 3 x 2431H 38 mm (1.5 in) exit compression driver with 75 mm (3 in) voice coil 339894-002X
- Nominal Impedance: 16 ohms
- Sensitivity (1 w @ 1 m): 117 dB SPL

### AURAL SWEEP TEST SPECIFICATIONS:

- A. L.F. Aural Sweep Test: 10V Input, 10 Hz to 300 Hz
- B. M.F. Aural Sweep Test: 7V Input, 100 Hz to 3 kHz
- C. H.F. Aural Sweep Test: 2V Input, 1 kHz to 20 kHz

### PHYSICAL SPECIFICATIONS:

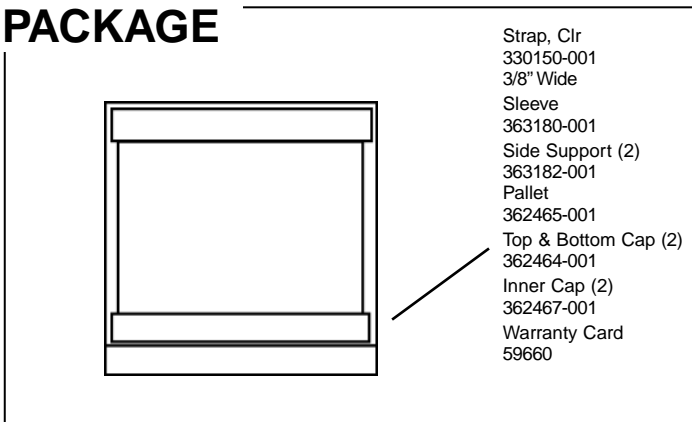
- Enclosure Dimensions: 533 mm x 1351 mm x 772 mm D (21.0 in. x 53.2 in. x 30.4 in. D)
- Net Weight: 102 kg (225 lb)

### WARRANTY INFORMATION:

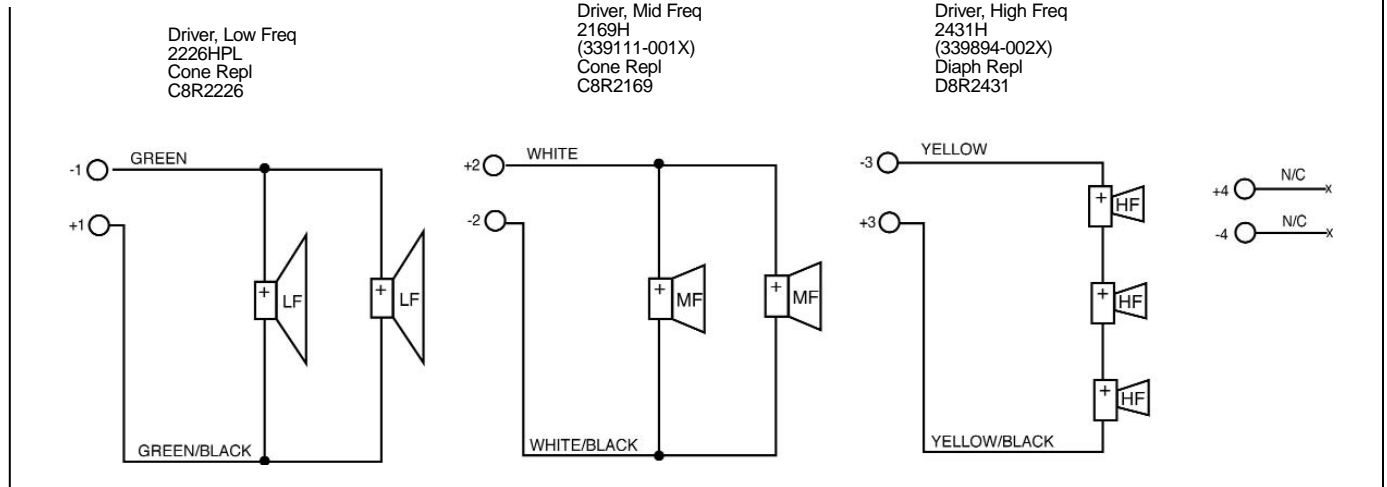
- Refer to Warranty Statement packed with each product.

### TRANSDUCER SECTION CONT'D:

## PACKAGE



## WIRING DIAGRAM



JBL VLA601 REV I

# JBL VLA601

## COMPONENT EXPLODED VIEW

- Gasket (2)  
2250HLP  
339403-001  
Phasing Plug
- Screen (2)  
339484-001  
Midrange Phase Plug
- Phasing Plug (2)  
338471-003  
CMCD-81  
(with 4 inserts)
- Phasing Plug (2)  
350307-001  
2250H Gasket 8"
- Screw (8)  
804-41110-20  
10-32 x 1 1/4  
FLT,PH,BLK ZINC,LCS

- Nut (8)  
833-30110-00  
10-32, KEPS, BLK  
ZINC, LCS, RIGHT

- Washer (8)  
843-00110-06  
#10 x .06, FLT PL,  
REG BLK ZINC, CS

- Low Frequency Driver (2)  
2226HPL  
Cone Repl  
C8R2226
- Low Frequency  
Wire Assy  
353210-001
- Gasket, Rear 15" (2)  
360-70002-01
- Screw (16)  
874-33114-16  
10-32 x 1  
SCKT, CAP, HEX, BLK  
ZINC SCR

- Screw (6)  
882-41110-10  
6 x 5/8  
PAN, PH, BLK ZINC, LCS
- Input Plate, NL8  
339335-001
- Label  
361896-001

- Underlay, Label  
363186-003

- Gasket  
362470-001  
Rear Panel

- Screw (10)  
804-41110-20  
10-32 x 1 1/4  
FLT,PH,BLK ZINC,LCS

- Mid Freq Driver (2)  
2169H  
(339111-001X)  
Cone Repl  
C8R2169
- Screw (8)  
804-41110-12  
10-32 x 3/4, PAN, PH,  
BLK ZINC, LCS
- L/F Wire Assy  
362970-001  
VLA MF/HF

- Single Throat (2)  
361857-001

- Bolt (8)  
854-00001-20  
1/4-20 x 1 1/4, HEX,  
CLR ZINC,MCAS

- Washer (8)  
844-03110-06  
Split Lock, 1/4 BLK

- Gasket (6)  
362245-001  
Mid Dual Throat, Side

- Washer (8)  
844-01110-07  
1/4, SAE, REG, BLK  
ZINC, LCS

- Gasket  
362244-001  
Mid Throat, Center

- Wire Jumper (2)  
338512-001

- High Freq Driver (3)  
2431H  
(339894-002X)  
Diaph Repl  
D8R2431

- Screw (12)  
705-90002-14  
#1/4-20 x 7/8  
SKT SET, CUP  
POINT

- NUT (12)  
834-30010-00  
1/4-20  
KEPS, BLK ZINC,  
LCS, RIGHT

- Horn (3)  
337055-001
- Gasket (4)  
359-00225-00  
HF Horn Center

- Washer (12)  
844-03110-06  
Split Lock 1/4 BLK

- Bolt (8)  
854-00001-20  
1/4-20 x 1 1/4  
HEX,CLR ZINC,  
MCAS

- Washer (8)  
844-03110-06  
Split Lock, 1/4 BLK

- Throat Mount  
362529-001

- Washer, (8)  
844-01110-07

- Gasket  
363172-001  
(Throat Mount)

- Gasket  
361800-001  
HF Horn

- Load Plate, Woofer (2)  
361731-001

- Gasket (2)  
361893-001  
Load Panel

- Screw (8)  
806-41010-32  
1/4-20 x 1 1/4  
PAN, PH, BLK  
ZINC, LCS

- Bracket (2)  
362339-001  
Throat Mount
- Screw (8)  
804-11110-16  
10-32 x 1  
FLT, PH, BLK  
ZINC, LCS

- Horn  
362629-001

- Gasket (2)  
364834-001  
HF Horn

- Screw (12)  
804-41110-20  
10-32 x 1 1/4  
FLT,PH,BLK ZINC,  
LCS

- Grille  
361798-001
- Screw (24)  
882-51110-12  
6 x 3/4  
OV, PH, PTCL,  
BLK ZINC, LCS