

# SPECS

PEAVEY ELECTRONICS

## Model 44T™

### Compression Driver

#### SPECIFICATIONS

**Throat Parameter:**

2" (50.8 mm)

**Nominal Impedance:**

8 ohms

**Minimum Impedance:**

7.1 ohms

**DC Resistance:**

6.8 ohms

**Power Capacity:**

160 watts continuous program above 500 Hz, continuous program is 3 dB greater than continuous pink noise, 500 Hz to 20,000 Hz for 2 hours (AES 2-1984)

**Sensitivity:**

111 dB SPL 1 watt at 1 meter on axis on a 80° H x 40° V horn

**Nominal Efficiency:**

30%

**Frequency Range:**

500 Hz to 20 kHz

**Lowest Recommended Crossover:**

500 Hz at 12 dB/octave

**Diaphragm:**

0.002 (.05 mm) pure titanium

**Voice Coil Diameter:**

4" (101 mm)

**Voice Coil Material:**

Edgewound aluminum ribbon

**Flux Density:**

19000 Gauss (1.9 T)

**Suspension Material:**

Kapton

**Dimensions (H x W x D):**

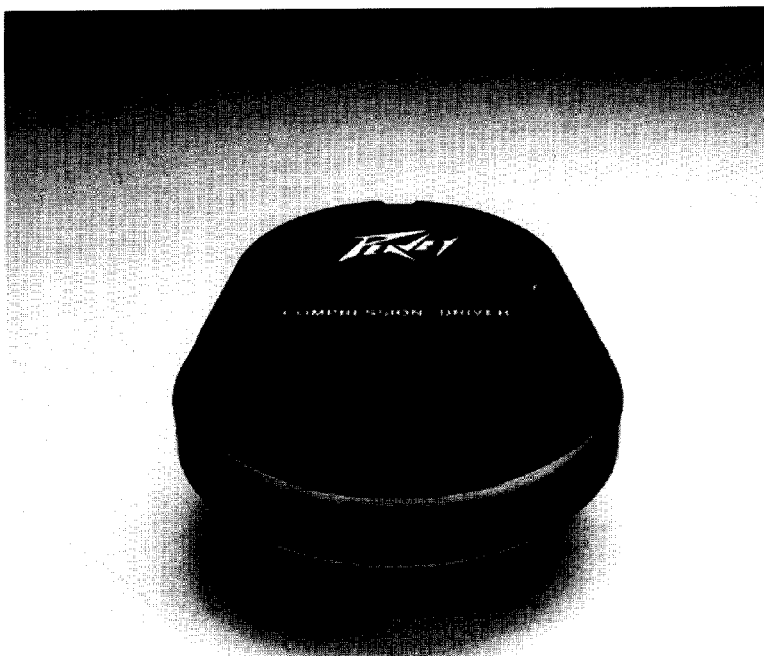
8.388" (213 mm) diameter x 6.05" (154 mm) depth

**Net Weight:**

23.1 lbs. (10.5 kg)

**Shipping Weight:**

26.3 lbs. (11.95 kg)



#### DESCRIPTION

The 44T™ compression driver places Peavey well into the future of state of the art compression drivers. Using the latest technologies, the 44T illustrates excellence in high level performance and superb accuracy for any sound reinforcement application.

**Mechanical Construction:** The construction of the 44T utilizes the highest temperature adhesives, one-piece diaphragm/coil form, and edgewound aluminum voice coil. The 44T offers superior power handling and durability. This unit's diaphragm is constructed of "commercially pure" titanium. Titanium being one of the world's strongest metals, will produce highly intelligible vocals and crisp highs which extend to the upper limits of audibility. The new scalloped uniphase suspension enables the driver to perform without the degrading "rocking modes" found in many large format

drivers. The 44T employs a radial slot phase plug, allowing a wave front of proper shape to form at the horn throat.

Each 44T compression driver must pass a series of computer-based tests that will assure quality, reliability, and frequency response consistency. Paired with the proper horn assembly, the full four-inch diaphragm can attain a frequency response from 500 Hz to the upper limits of the audio spectrum.

The design of the 44T has opened new options for Peavey compression drivers in high-level, multi-way sound systems.



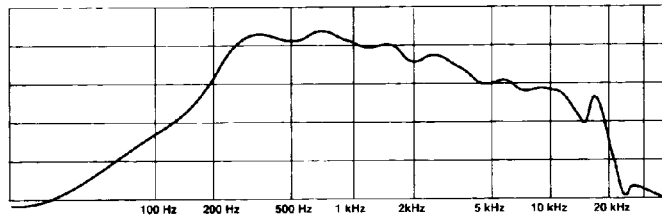
## INSTALLATION — DIAPHRAGM REPLACEMENT

The 44T™ driver is designed for easy repair. In the unlikely event of failure, simply remove three screws from the back cover, disconnect the lead wires to the diaphragm, remove all screws from the diaphragm, and remove the diaphragm. Before you place the new diaphragm on the magnet structure, the gap must be cleaned. To clean the gap, fold a piece of 3/4" masking tape (sticky side out) to form a triangle. Place the folded masking tape partially into the gap (about 1/4" deep) and slide the tape all the way around the gap in order to remove any material which may be in the gap. Remove the masking tape from the gap and inspect the gap carefully. If the gap is clean, then place the new diaphragm onto the magnet structure. (To prevent gap contamination by foreign materials, a failed diaphragm assembly should not be removed before a new diaphragm assembly is ready to be installed.)

**CAUTION:** The diaphragm voice coil leads must line up with both notches located in the gap. See assembly drawing. Once diaphragm is properly positioned on the magnet structure reassemble the unit. 44T diaphragm replacement kits are available from Peavey dealers and include complete instructions for gap cleaning.

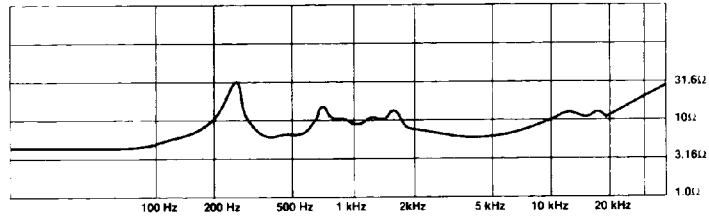
## ONE YEAR LIMITED WARRANTY

**NOTE:** For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P.O. Box 2898, Meridian, Mississippi 39302-2898.



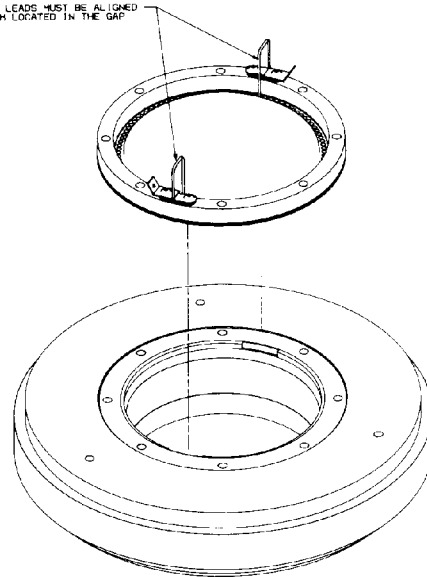
1/6 octave  
average on a  
terminated  
tube

FREQUENCY RESPONSE



IMPEDANCE

VOICE COIL LEADS MUST BE ALIGNED  
WITH NOTCH LOCATED IN THE GAP



Features and specifications subject to change without notice.