

## 22XT+™ Diaphragm Replacement Kit

These instructions are broken into three sections:

1. Driver Inspection, 2. Diaphragm Replacement Procedure, 3. Failure Analysis. In most cases, following this order will assure your success.

\*Interchangeable with all Model 22A and Model 22 Drivers.

### DRIVER INSPECTION

**1. Driver Dead:** With an Ohm meter (or in a pinch, a flashlight battery), determine if the driver is open circuited by measuring at the driver terminals. D.C. resistance should be in the range of 4.25 Ohms to 4.75 Ohms. Unless you have a precision-calibrated meter or a bridge, consider the driver to be okay if you're in the ballpark. If using a battery, no "click" when connecting and disconnecting the battery means the driver is open.

**2. Driver Noisy or Distorted:** If you have a sine wave oscillator, sweep the driver with 4 Volts from 500 Hz to 2,000 Hz. Any buzzing or distortion will indicate that the diaphragm must be removed. An intermittent noise could be a metal particle in the gap. Check the gap carefully and clean before you replace the diaphragm to rule out this possibility. A flashlight is a great help. If an oscilloscope is available, look at the waveform at the driver to rule out an electronic malfunction if high distortion is your symptom.

### DIAPHRAGM REPLACEMENT PROCEDURE

**1. Clean the front plate and environment of all metal particles.**

2. Remove the six 8-32 screws holding the diaphragm assembly to the front plate. These will be replaced with a longer screw, included (71500875).

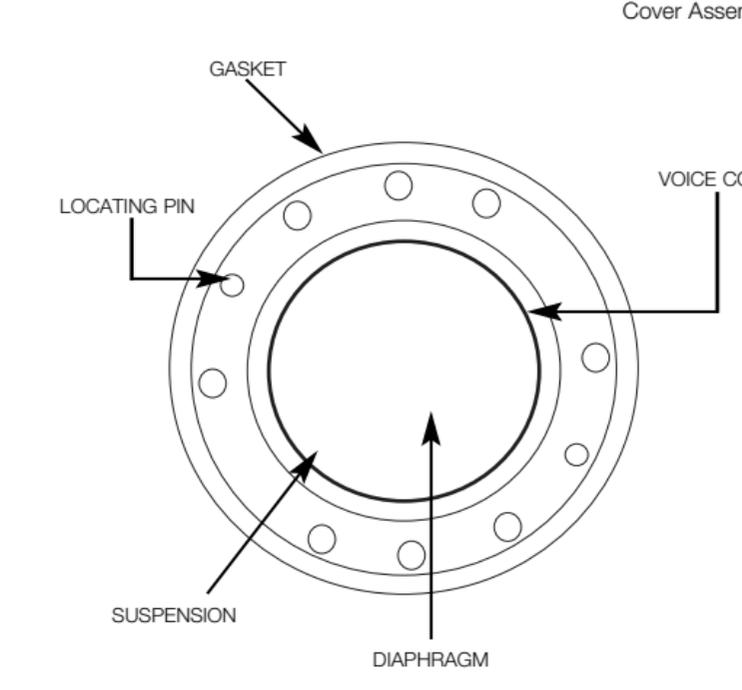
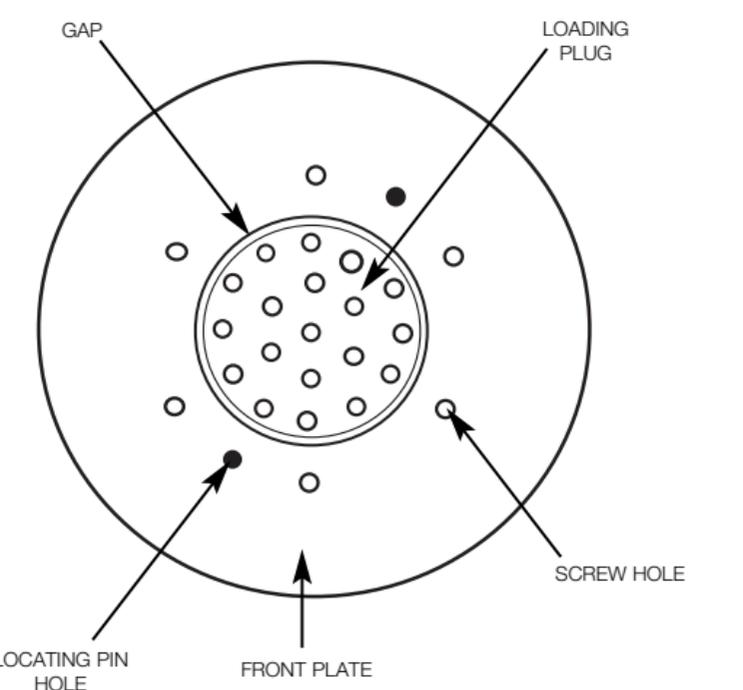
3. Remove the failed diaphragm assembly to a safe place to prevent damage so that we can inspect it. (You might want to look closely at it, too.) Please return the failed diaphragm assembly to your dealer or

directly to Peavey using the box in which the new assembly arrived. Describe the operating conditions surrounding the failure with as much detail as possible. This information will help immeasurably in improving the performance of our products.

4. Fold a piece of 3/4" wide masking tape into a triangle shape with the adhesive side out. Using a flashlight to see into the gap in the magnet structure, slide tape around the entire gap to clean out all metal chips and dirt.

5. Make certain the rubber gasket is properly seated on the new cover assembly, exposing the entire aluminum ring. The ring must sit flat on the front plate when in place.

6. By eye, line up the locating pins on the cover with the untapped holes on the front plate. These holes are easy to locate since they are between tapped holes for the 8-32 screws. If the gasket will not stay on the cover, tilt the driver past vertical and let gravity help you.



Cover Assembly

VOICE COIL

DIAPHRAGM

SUSPENSION

LOCATING PIN

GASKET

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