



Electro-Voice®

600 Cecil Street
Buchanan, Michigan 49107
Phone: 616-695-6831
FAX: 616-695-1304

SERVICE DATA

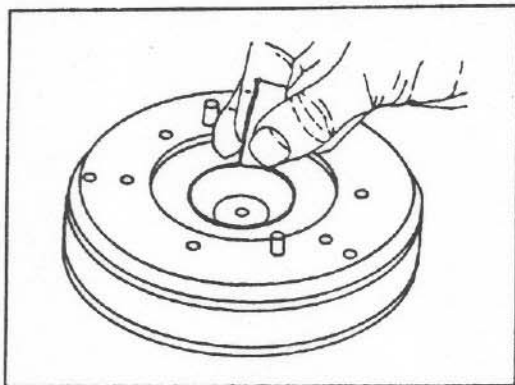
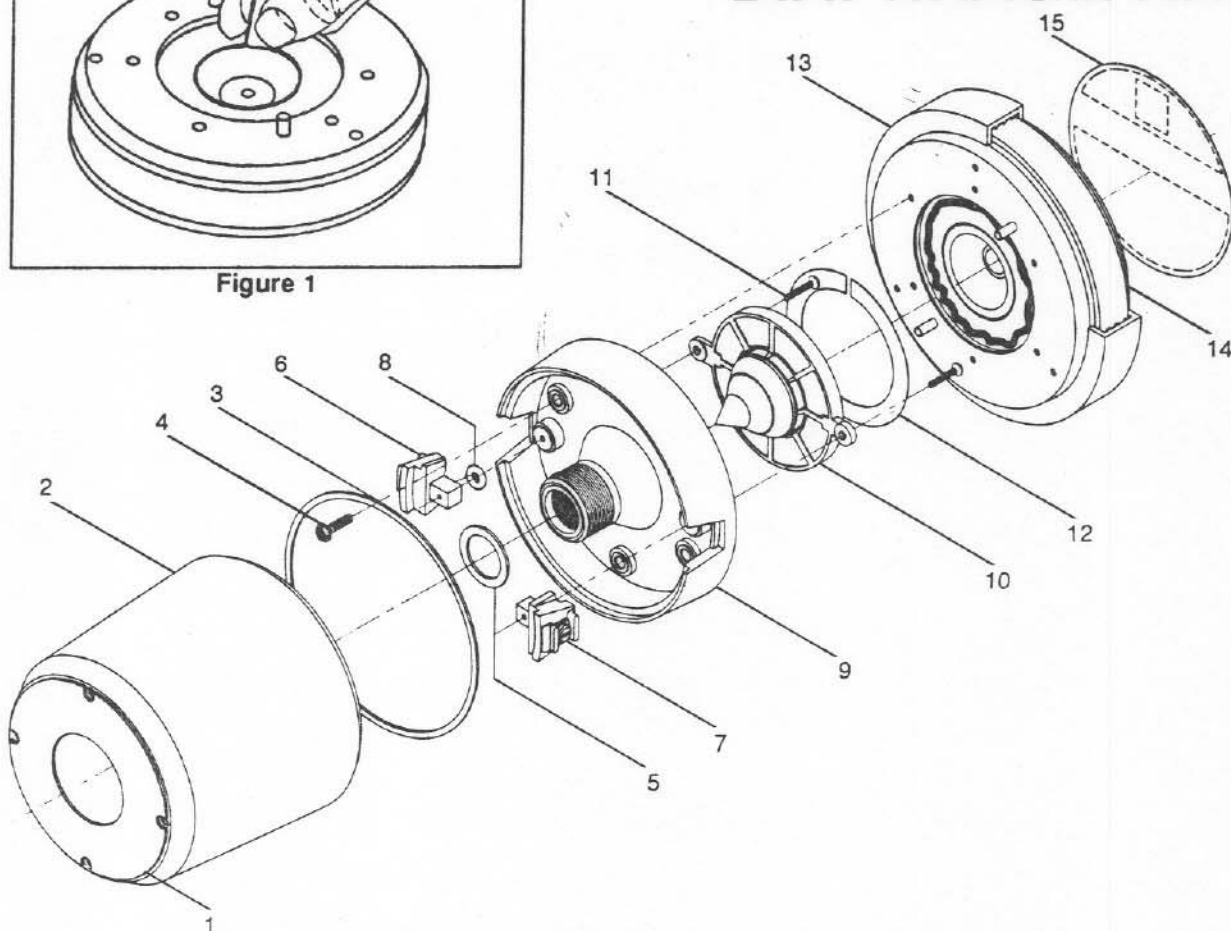


Figure 1

DH2A and DH2A-16 DIAPHRAGM KIT



REPLACEMENT PARTS LIST FOR DH2A AND DH2A-16

REFERENCE NO.	PART NO.		DESCRIPTION
	DH2A-16	DH2A	
1	38724	38724	Flange Gasket
2	A72819HV	A72819HV	Adaptor Cover
3	38723	38723	Cover Gasket
4	63108	63108	Screw, 10-32 (6)
5	38701	38701	Throat Gasket
6	81490	81490	Terminal Assy. (red)
7	81487	81487	Terminal Assy. (black)
8	38643	38643	Fibre Washer (2)
9	A71580HV	A71580HV	Front Cover
10	82816XX	81161XX	Diaphragm Assembly
11	L605212AD	L605212AD	Screw, 6-32 (2)
12	38660	38660	Diaphragm Gasket
13	71586	71586	Magnet Protector
14	81040	81040	Magnet Structure
15	49006	48913	Nameplate

DH2A AND DH2A-16 DIAPHRAGM KIT

Replacement Instructions

TOOL REQUIRED:

#1 Phillips screwdriver

Note: care must be exercised to avoid dust, dirt, etc., from collecting on the replacement diaphragm.

1. Clean outside of driver with a damp cloth to remove any dust or magnetic particles, etc., before disassembly, and make certain that the immediate work area is clear of magnetic particles which might be attracted to the air gap after the driver is disassembled.
2. Remove front cover (2) by firmly gripping sides and twisting so as to unthread from the rest of driver.
3. Remove six screws (4) securing throat cover and diaphragm assembly (9) & (10) to the magnet structure (14) and separate the two assemblies.
4. Inspect the magnet structure air gap with a high intensity light or flashlight. If required, clean air gap with a folded piece of tape (masking tape) with the adhesive surface facing out (Figure 1). Repeat this step with a fresh piece of tape at least three times, or until the air gap is clean. On units with burned voice coils, this procedure is doubly important.
5. Cover air gap completely with tape to prevent further particles from entering.
6. Next, disassemble the diaphragm assembly from the throat cover by removing the two Phillips-head terminal mounting screws (11) and lift the diaphragm assembly (10) from the throat cover. Clean and check throat cover assembly (9) for dust, etc.

The fibre washers are now molded into plastic phase-plug/diaphragm housing of the DH2A diaphragm subassembly, item 10 (see exploded drawing). The fibre washers must be removed before installing DH2A diaphragm kits into older DH2 drivers. When dismantling the older drivers, the fibre washers will often stick to the underside of the metal front cover, item 9, and will need to be pried out. If left in, the new diaphragm will not seat properly, resulting in impaired acoustic performance and the assembly screws, item 11, being too short. **Do not** plug in longer screws—remove the washers!

7. Remove the new diaphragm assembly from packaging and visually inspect for prior damage. Notice the different width tabs at the connector terminals.
8. Place the new diaphragm assembly (10) in the throat cover, observing proper location of the tabs and assemble the connector terminals (6) & (7) and screws (11) in the appropriate locations of the throat cover (red terminal block to '+' position). While assembling screws (11), hold terminals and terminal blocks to prevent rotation.

9. Remove tape protecting air gap and assemble throat cover assembly (9) to magnet structure (14) as follows: notice the blind holes in the front cover assembly (they do not extend through the cover). These holes are for the locating pins extending from the magnet structure. Carefully position the throat cover assembly on the magnet structure with the blind holes aligned with the locating pins (6) and the mating surfaces parallel.
10. Lower the throat cover over the magnet structure. **DO NOT USE FORCE.**
11. Secure the two assemblies by installing the screws (4) finger tight. Tightened the screws evenly. Do not tighten any one screw all the way, but alternate opposite screws until they are snug.
12. Reassemble the front cover (2) by threading back onto the rest of the structure.
13. Measure voice coil DC resistance for the DH2A or DH2A-16 directly with an ohmmeter to check coil and solder connections. Voice coil DC resistance is 4.31 to 5.49 ohms for the DH2A, and 10.13 to 11.81 ohms for the DH2A-16.
14. Check sound quality of the DH2A (DH2A-16) by applying 4 volts RMS (5.66 volts RMS for the DH2A-16).

WARRANTY (Limited)

Electro-Voice Professional Sound Reinforcement Loudspeakers and Accessories are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaces (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish or appearance items or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice will void this guarantee.

Electro-Voice also maintains complete facilities for non-warranty service.

A list of authorized Service Representatives is available from Electro-Voice, Inc., (616-695-6831). Specifications subject to change without notice.