SPECIFICATIONS
Generating Element: Dynamic
Frequency Response: 80-18,000 Hz
Polar Pattern: Omnidirectional
Impedance: Lo-Z (150 ohms nominal)
Output Level: -61 dB
(0 dB = 1 mW/10 dynes/cm²)
EIA Sensitivity: -155 dB
Diaphragm: Electro-Voice Acoustalloy®
Case Material: Steel and aluminum
Dimensions,
DO56: 159 mm (6.25 in.) long overall
37 mm (1.45 in.) major diameter
19 mm (.75 in.) shank diameter
DO56L: 292 mm (11.5 in.) long overall
37 mm (1.45 in.) major diameter
19 mm (.75 in.) shank diameter
Finish: Silver tone beige
Net Weight,
DO56: 185 g (6.5 oz) without cable
DO56L: 157 g (5.5 oz), without cable
Cable: 4.6 m (15 ft), 2-conductor shielded,
rubber-jacketed, broadcast-type
cable with Switchcraft A3F
cable connector
Cable Connector:
Mates with Switchcraft A3F

Accessories Furnished:
Model 312B stand adaptor
Protective vinyl carrying pouch

Optional Accessories:
Model 361 windscreen
Model 340 security clamp
Model 342 stud mount adaptor
Model 400 desk stand
Model 422 desk stand
Model 423A desk stand

DESCRIPTION & APPLICATIONS
The Electro-Voice DO56 is a specially
shock-isolated omnidirectional dynamic
microphone created for the most
exacting professional applications.
Smooth response and low sensitivity
to mechanical shock, combined with
functional “easy to hold” styling, make
the DO56 ideal for vocalists in stage
and television work, as well as for news
and sports broadcasters for interviews
and commentary.

The DO56 is a shock mounting triumph.
All handling noises, clothing noises, and
even cord shock and vibration are
isolated from the microphone element
so effectively that almost no vibration is
amplified.

Shock isolation of the DO56 is provided
by shock rings holding the internal parts
of the microphone and mounted to a
steel sleeve which slips snugly into the
outer case. Shock isolation is further
enhanced by having the main acoustic
cavity shock isolated with the dynamic
element and decoupled from the rest of
the case. The shock isolation rings are
made of butyl rubber which not only
acts as the spring in the isolation system
but also converts shock energy to heat.

The rear outer case is constructed of
steel/aluminum while the front portion
of the case is made from thick-wall
aluminum to provide maximum
durability and proper balance in the
hand. The DO56 employs a Memraflex
griple screen that bounces back to keep
its shape. The attractive silver tone beige
finish is ideal for today’s on-camera use.

The smooth, wide-range response of the
DO56 has been specially shaped for
effective up-close vocal pickup under
a wide variety of professional conditions.
Response rolls smoothly below 200 Hz
(-8 dB at 50 Hz) with a broad rise of
about 3 dB in the 2,000-12,000 Hz
range (see Figure 2). The result is a
bright-yet-natural vocal quality without
the low-frequency noise problems that
can plague microphones with flat bass
response.

The DO56 features the exclusive non-
metallic Electro-Voice Acoustalloy®
diaphragm that assures very smooth
frequency response and is impervious to
damage from extremes of
temperature and humidity. A carefully
designed high-density Acoustifoam™
blast filter provides excellent protection
from excessive sibilance and annoying
“P-popping,” as well as providing
protection for the diaphragm from dust
and magnetic particles.

ARCHITECTS’ AND ENGINEERS’
SPECIFICATIONS
The microphone shall be an
omnidirectional dynamic type with
wide-range frequency response, uniform
from 80 to 18,000 Hz. The diaphragm
shall be non-metallic Acoustalloy®
and shall have a high-density
Acoustifoam blast filter to prevent dust and magnetic particles from reaching the diaphragm. The dynamic element and acoustic cavity shall be shock isolated from the outer case.

Nominal impedance shall be 150 ohms. The line shall be balanced to ground and phased. The output level shall be $-61\,\text{dB} (0\,\text{dB} = 1\,\text{mW}/10\,\text{dynes/cm}^2)$. EIA sensitivity rating shall be $-155\,\text{dB}$. The case shall be made of steel and aluminum. Overall length of the microphone shall be 159 mm (6.25 in.) or 292 mm (11.5 in.). Major diameter shall not exceed 37 mm (1.45 in.), and minor (or shank) diameter shall not exceed 19 mm (.75 in.). Finish shall be silver tone beige.

A 4.6 m (15 ft) 2-conductor shielded, broadcast-type, rubber-jacketed cable with Switchcraft A3F connector installed shall be provided. The microphone shall have a built-in cable connector to mate with the Switchcraft A3F. A Model 312B stand clamp and vinyl protective pouch shall be supplied. The Electro-Voice D56 is specified.

**WARRANTY (Limited)**

Electro-Voice Professional, Broadcast, Recording and Sound Reinforcement Microphones are guaranteed unconditionally against malfunction from any cause for a period of two years from the date of original purchase. Also, these microphones are guaranteed without time limit against malfunction in the acoustic system due to defects in workmanship and materials. (Any active electronics incorporated in a microphone are guaranteed for three years from the date of original purchase against such malfunction.) If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for parts, labor, or shipping to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish, appearance items, cables, cable connectors, or switches. Defect guarantee does not cover malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

For repair information and service locations, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107 (Phone 616/695-6831 or 8234 Doe Avenue, Visalia, CA 93277 (209/625-1330, -1).

Electro-Voice also maintains complete facilities for non-warranty service of E-V products.

Specifications subject to change without notice.

Part Number 53982-046