DESCRIPTION AND APPLICATIONS
Designed for specialized and extended long-range pickup, the model 643 Cardiline microphone combines the best characteristics of cardioid and distributed front-opening designs. This microphone provides a cardioid pickup pattern up to 100 cps and is highly directional over the balance of its range. (see Fig. 4) The microphone includes integral two-position low frequency tilt-down and cutoff filters for suppression of room reverberation and retention of "presence".

INSTRUCTIONS
1. Attach front tube section to rear section with red tabs matching.
2. The microphone balance may be adjusted by loosening the two screws on the swivel mount and sliding the bar until the desired balance is achieved.
3. The bass frequency control is located on the back of this microphone. It may be adjusted with a screwdriver. Positions: F = Flat; 1 = First Position Rolloff; 2 = Second Position Rolloff (See Figure 3)
4. To change impedance, remove the three screws in the Bass Control Switch Plate and remove this assembly. The terminal board is on the rear of the bass control switch. The jumper wire connected to the 150-ohm tap can be resoldered to the desired tap.
5. Instructions for replacement of wind screen components are furnished with replacement kit.

SPECIFICATIONS
Element: Dynamic
Output Level: -48 (1 mw/10 dynes)
Frequency Response: Flat from 30 to 10,000 cps or choice of 5 or 10 db low frequency reduction steps with external screwdriver slot adjustment. Position — F = Flat, 1 = First Position Rolloff, 2 = Second Position Rolloff, (See Figure 3)
Sharp cutoff highpass filter provided to eliminate frequencies below 100 cps with use of external switch.
Polar Pattern: Cardioid-line
Diaphragm: Acoustalloy®
Impedances Available: 50, 150, 250 ohms
Switches: Low Frequency Reduction
Cable Connector: Cannon UA-3-11 (furnished)
Cable: 20 ft. cable furnished
Case and Frame Material: Aluminum
Finish: 'Grey' Metalustre
Net Weight: 12 lbs.
Hum Pickup Level: -125 db (re.001 gauss field)

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