

HEIL SOUND PR-40

PROFESSIONAL DYNAMIC MICROPHONE



The Heil PR 40 represents completely new dynamic microphone technology designed for a wide range of professional applications such as sophisticated recording, live sound, and commercial broadcast. Producing the widest frequency range available in a dynamic microphone, the PR 40 outperforms most condenser microphones, and can withstand huge amounts of SPL. At the same time, it maintains the 25 year Heil Sound tradition of superbly natural voice articulation.

Since 1982, Heil Sound has been the leading manufacturer of communications microphones and has a paramount understanding of phasing. When properly applied, this knowledge creates outstanding cardioid patterns with unbelievable rear rejection that removes unwanted sounds that try to enter from the off axis rear. The pattern control of the Heil PR 40 is outstanding. This exceptional performance is achieved by using the ideal combination of materials for the large low mass diaphragm and a special mixture of neodymium, iron, and boron that gives the PR 40 the strongest magnet structure available. These features allow the microphone to achieve magnificent dynamic range. A unique screen system using two different diameter mesh screens and an internal breath blast filter allow the user to talk closely to the microphone with little worry of pops or excessive sibilance. The large diameter dynamic element is mounted in a unique Sorbothane © shock mount atop a non-resonant fixture, decoupling the element from the massive steel body. This body and the internal hum bucking coil removes any worry of using the PR 40 near monitor screens or noisy lighting fixtures and controls. The new technology of the Heil PR 40 has redefined the dynamic microphone with superior wide frequency response, the lowest presence of noise in the industry, flawless design, and elite quality expected by an innovator and leader in the field. Welcome to the new standard.

<u>Adapter cables

The CC-1 XLR adapter cables (connection between microphone and radio) are not included; these have to be ordered separately. To find out which CC-1 adapter will work with your radio please consult <u>HeilSound Adapter Selector.

NOTE FROM HEIL

We sometimes get inquiries asking for an adapter cable for the PR 781 (or the PR20/30/35/40) to connect to a "small" HF transceiver like the Icom IC-706 or IC-7000, or the Yaesu FT-450/817/857/897. As you know, Heil does not make such cables, and there are several reasons why.

In the case of the IC-706/7000, you run up against the problem of Icom utilizing different available mic gain levels on SSB and FM (with FM being much lower). Using our dynamic mics, any of them, will not drive these Icom rigs to full deviation on FM. What's more, the threshold for tripping the VOX on SSB seems to vary widely, and sometimes a dynamic microphone won't engage the transmitter reliably when using VOX.

In the cases of the Yaesu FT-450/817/857/897, as well as the



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previously-mentioned Icom rigs, the very wide frequency response of the PR 781 tends to overwhelm the input stages of the rig, including the SSB modulator. The result is a very "flat" or "muddy" sounding signal. The problem is not the microphone, which (when properly applied) really sparkles; the problem is that you're injecting a 16,000 Hz voice signal into a radio without sophisticated filtering, and the (nominal) 2,500 Hz bandwidth used on SSB, being so much narrower, means that over 13 kHz of audio, amplified by the mic input amplifiers, is wasted.

Now some customers are quite insistent, and they demand that we provide them with a "solution" that will allow them to connect a PR 40 or PR 781 to one of these small rigs. Yes, a CC-1-XLR-I and HSTA-iM or HSTA-YM will make the electrical connections. But the result will just not be satisfactory. The customer's audio won't sound good. The VOX may not work.

Heil makes a number of excellent microphones for Icom rigs. . .the Handi Mic iC (via the CC-1-iM adapter cable) and the iCM (via the HSTA-iM adapter cable) will modulate an IC-706 or IC-7000 beautifully, and with full fidelity. A Handi Mic 5 or GM-5, via the CC-1-YM adapter cable, will sparkle on any of the small Yaesu rigs.

The PR 40 belongs in a broadcast studio; an IC-7000 does not!

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