



phase 90



Musical
Products Group

Operation
Manual

MXR TECHNOLOGY

All products developed by MXR are a result of extensive experience in creative audio engineering. MXR products are designed by individuals who are actively involved in every facet of music, from performance through recording to playback. This sustained awareness of current trends and needs, combined with innovative design and construction techniques, allows MXR to produce carefully thought out products that are unique, versatile, and reliable. New ideas are constantly being tested, and existing products are subject to regular re-evaluation so you can be sure they reflect the latest technology.

There are MXR products to suit the needs of everyone involved with music. A wide variety of effects units, from a

basic stage unit to our highly sophisticated studio signal processors, are available to enhance any musical performance. Also included in the MXR line are products designed to improve the quality of sound in home stereo component systems. MXR is constantly striving to serve all areas of the world of music. The same care and attention is given to all MXR products, whether they are used in the home, in recording studios, or during live musical performances. All MXR products are designed and manufactured in the U.S.A. and carry a full warranty.

INTRODUCTION

The MXR Phase 90 is the classic phasing unit. Designed for use with any electronic musical instrument, the Phase 90 provides low cost, studio-type phasing for on stage use.

Phase shifting is accomplished by passing an incoming signal through a series of all-pass phase shifting filters. This causes a "phase-lag," which is similar to a time delay. When this phase shifted signal is mixed with the original signal, a series of notches is created in the tonal spectrum. Two filters are required to create each notch. The result is termed a "comb filter response."

