



**dyna comp**



**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 Dyna Comp is a level limiting device designed to provide proper sound balance, "punch" and long sustain, giving a guitar, piano or bass a studio quality sound. Limiting is an effect which is used in professional recording, allowing each performer to be heard without overpowering others in the group. This professional sound can only be duplicated with a high quality limiter. The Dyna Comp uses a voltage controlled amplifier (VCA) as its main active element, the same circuit element found in professional studio limiters. This VCA, coupled with two easy to operate controls, provides a studio quality limiter at a fraction of the studio limiter cost.

## OPERATION

The Dyna Comp varies its gain so that the output signal level remains constant whether the performer is playing loud or soft. The SENSITIVITY control sets how far the voltage controlled amplifier "reaches" to amplify soft sounds. It is important that the musical instrument is well designed and shielded because as SENSITIVITY is increased it may also amplify noise or static.

The OUTPUT control regulates loudness. This enables one to change the level of the compressed signal to match or contrast with the unprocessed signal.

OUTPUT should be adjusted after the desired amount of sustain has been set.

The FOOTSWITCH allows an effect to be instantaneously switched in or out. When in the out position, the signal is completely independent of circuit function.

When the Dyna Comp is used with any other component, the other device should be placed between the Dyna Comp and the amplifier, not between the instrument and Dyna Comp. This will insure best signal to noise ratio and least distortion.

## SERVICE NOTES

Although the Dyna Comp has been designed for low power consumption, the battery will need replacement on occasion depending upon frequency of use. To replace the battery, remove the four screws securing the bottom cover. Replace with a similar 9V transistor radio battery.

Because the unit's input jack is also the power switch, the cord to the input should be unplugged when not in use to insure maximum battery life.

If the unit is to be shipped or stored for a long period of time (months), the battery should be removed to prevent damage from battery leakage.



## SPECIFICATIONS

Maximum Input Level	—5 dBV
Maximum Output Level	—12 dBV
Input Impedance	1 M ohm
Output Impedance	10 k ohms
Equivalent Input Noise T.H.D.	—95 dBV 0.2% typical (—20 dBV, 1 kHz)
Maximum Compression	36 dB
Attack Time	5 ms
Release Time	1 sec
Power Requirements	9 volt battery, 1.2 ma

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All products in the MXR Musical Products Group are warranted to function properly for a period of one year from the date of purchase. If any unit fails to function properly within the warranty period, free repair, and the option of replacement or refund in the event MXR is unable to repair the unit, are MXR's only obligations. This warranty does not cover any consequential damages or damage to the unit due to misuse, ac-

## FULL WARRANTY

cident, or neglect. MXR retains the right to make such determination on the basis of factory inspection. Products returned to MXR must be shipped prepaid. This warranty remains valid only if repairs are performed by MXR and provided that the serial number on the unit has not been defaced or removed. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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