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**5050**

**ZOOM CHOIR**

**ENGLISH**

**OPERATION MANUAL**

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Thank you for selecting the ZOOM Choir 5050 (hereafter simply called the "5050"). The 5050 is an innovative ambience signal processor incorporating advanced ZOOM know-how gained through the development of sophisticated multi-effect devices. The product has the following special features and functions:

- The latest developments in Zoom's digital technology are implemented to assure natural-sounding high-quality chorus, reverb and delay effects.
- Suitable not only for electric guitar, but also for electric/acoustic guitar and bass enhancement. When used in combination with the ZOOM Driver 5000, you can achieve great control over your guitar tone.
- Seven sophisticated variations ranging in character from a tight, snappy sound, to a spacious spread, makes it easy to get the right sound for your creations.

1. CHO REV

2. CHO DLY

3. MULTI CHO

4. DOUBLING

5. DIMENSION

6. AURA

7. DELAY

- Wide-range controls let you tailor the output exactly to your individual taste.
- Unlike conventional compact effectors, a program mode lets you store your own 5050 settings in memory.
- The optional foot switch FS01 allows you to change programs easily during a live performance.
- Specially-designed to be used with either guitar amplifiers or in line connections.

Please take the time to read this manual carefully, in order to get the most out of your 5050 and to ensure optimum performance and reliability.

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# Safety Precautions

Please observe the following safety tips and precautions to ensure hazard-free use of the 5050.

## • Power requirements

The 5050 can be powered by six IEC R6 (size AA) batteries or the optional AC adapter AD-0003. Do not use any other kind of AC adapter to prevent malfunction and safety hazards.

When wishing to use the 5050 on AC power in an area with a different line voltage, please consult your local ZOOM distributor about acquiring a proper AC adapter.

## • Environment

Avoid using your 5050 in environments where it will be exposed to:

- Temperature extremes
- High humidity or moisture
- Excessive dust or sand
- Excessive vibration or shock

## • Handling

Since the 5050 is a precision electronic device, avoid applying excessive force to the switches and buttons. Also take care not to drop the unit, and do not subject it to shock or excessive pressure.

## • Alterations

Never open the case of the 5050 or attempt to modify the product in any way since this can result in damage.

## • Connecting cables and input and output jacks

You should always turn off the power to the 5050 and all other equipment before connecting or disconnecting any cables. Also make sure to disconnect all cables and the AC power cord before moving the 5050.

# Precautions

- **Electrical interference**

The 5050 uses digital circuitry that may cause interference and noise if placed too close to other electrical equipment, such as TV sets and radio receivers. If such problems occur, move the 5050 further away from the affected equipment. Also, when fluorescent lights or devices with built-in motors are in close proximity to the unit, the 5050 may not function properly.

- **Cleaning**

Use a soft, dry cloth to clean the 5050. If necessary, slightly moisten the cloth. Do not use any abrasive cleansers, waxes, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

- **In case of malfunction**

If a problem arises during operation, turn the 5050 off and disconnect all cables. Then contact your local ZOOM distributor with the following information: model name, serial number, symptom, your name, address and phone number.

**Keep this manual in a convenient place for future reference.**

# Introduction

This section will acquaint you with the 5050 and explain some of the terms used in this manual. Even if you are already familiar with effectors, you should quickly scan this section.

## Manual mode and program mode

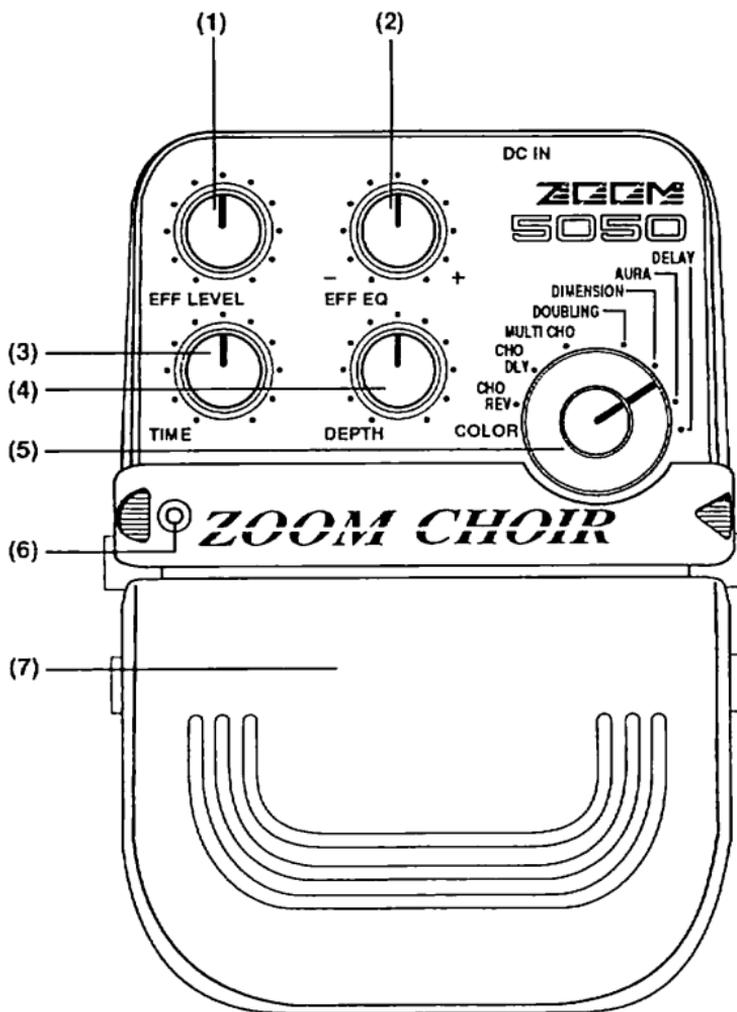
In manual mode, you use the controls of the 5050 to adjust the sound character in real time, whereas in program mode you use settings that you have stored previously. Since the current settings do not change when you call up program mode, you can quickly go back and forth between two sound character settings by switching between the two modes.

## Color

The 5050 incorporates seven different sound variations which are referred to as "color". Depending on which color you choose, the 5050 provides different effect and sound character combinations. Also note that the color setting affects the action and the range of the TIME and DEPTH controls.

# Parts and Functions

## Front Panel



**(1) Effect LEVEL control**

Adjusts the mixing ratio of original signal and effect signal.

**(2) Effect EQ control**

Adjusts the high frequency content of the effect signal. Turning the control clockwise emphasizes the highs, creating a brilliant, dazzling sound. Turning the control counterclockwise results in a more subdued sound.



*Be careful! Settings above 3/4 level makes some instruments sound very bright and aggressive.*

**(3) TIME control**

This control adjusts parameters such as reverb time and delay time, depending on which color setting is selected.

**(4) DEPTH control**

This control adjusts parameters such as reverb depth and delay feedback, depending on which color setting is selected.

**(5) COLOR control**

Selects the general sound character. For an explanation of the available settings, please refer to page 15-16.



*In bypass mode, the controls (1)—(5) do not operate.*

**(6) POWER indicator**

Normally, this LED is on when the unit is turned on. When manual mode is selected, the indicator is red and when program mode is selected, the indicator is green. In the bypass mode, the indicator is out.

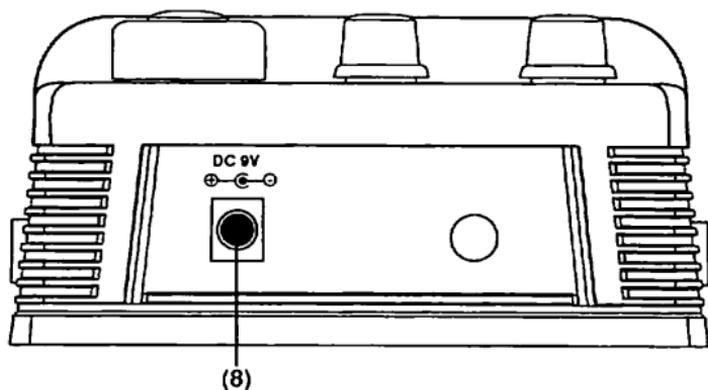


*When the batteries are weak, the POWER indicator starts to flash. When this happens, replace the batteries as soon as possible. Battery life is about five hours with manganese batteries and ten hours with alkaline batteries.*

**(7) Pedal switch**

Serves to switch between bypass mode, manual mode, and program mode.

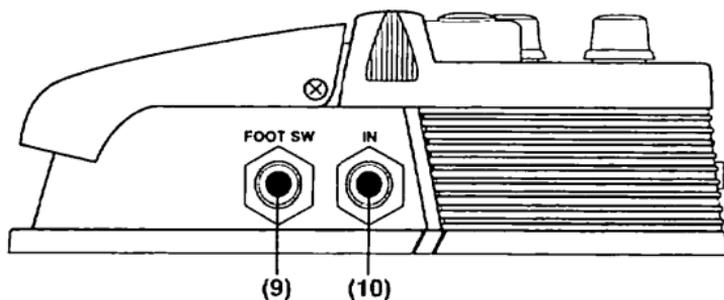
## Rear Panel



### (8) AC adapter jack

Serves for connection of the optional AC adapter AD-0003.

## Right Side Panel



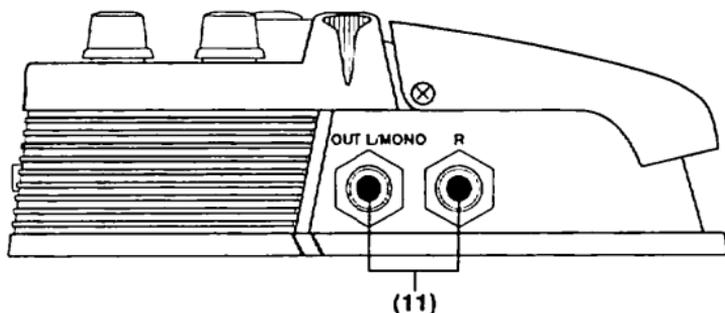
### (9) Foot switch jack

Serves for connection of the optional foot switch FS01.

### (10) Input jack

Accepts the input signal from the guitar. When a plug is inserted in this jack, the unit turns itself on automatically.

## Left Side Panel



### (11) Output jack

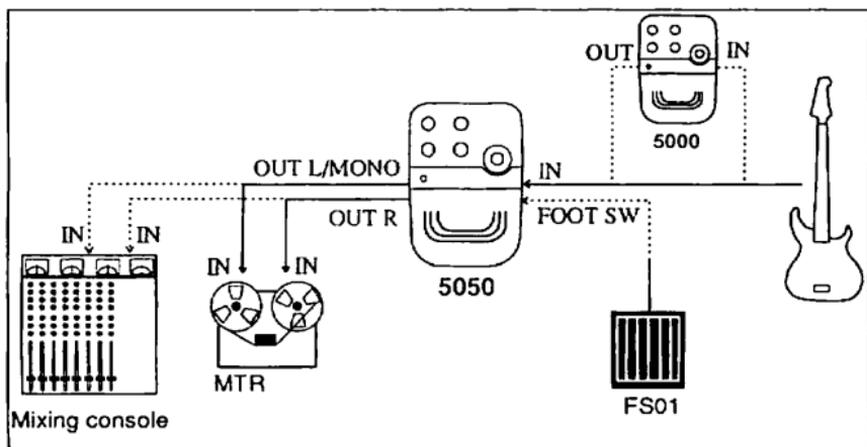
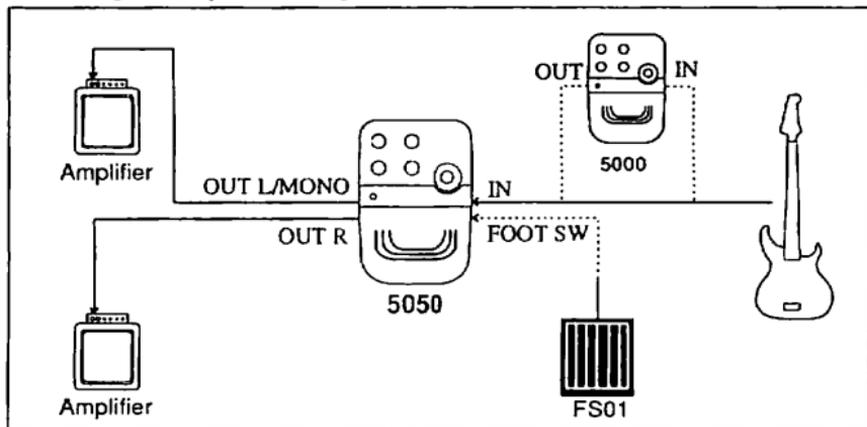
Stereo output for connection to a guitar amplifier or PA system, mixing console, etc. By using two amplifiers in a stereo configuration, a natural spread can be achieved. For a monaural connection, the L/MONO jack should be used.



*The battery compartment is located on the bottom of the unit. Insert six batteries (size AA, IEC R6) into the compartment, observing correct polarity as shown inside the case.*

# Connections

Connect the output of the instrument or the ZOOM Driver 5000 to the input jack of the 5050. Connect the output jack(s) of the 5050 to the input jack(s) of the guitar amplifier, mixing console, etc.



*For a monaural connection, use the L/MONO jack.*

*When not using the 5050, be sure to remove the cable plug from the input jack, to prevent battery drain.*

# Setup

The 5050 has a manual mode, where the control settings directly affect the output signal, and a program mode, where the stored settings affect the output signal. This section describes how to use each mode and how to switch between the two modes.

## Selecting the Sound Character in Manual Mode

This is the normal operation mode of the 5050.

1. Connect the instrument to the input jack of the 5050. The POWER indicator lights up in red. This shows that the 5050 is in manual mode. Starting with the controls in their center positions, adjust the controls while playing the instrument.
2. Select the sound character with the COLOR control. For an explanation of the available settings, please refer to page 15-16.
3. Adjust the effect level with the LEVEL control.
4. Adjust the delay and depth of the effect with the TIME and DEPTH controls.
5. Adjust the upper frequency range with the EQ control.

This completes the adjustment procedure in manual mode.

## Effect changes

Pushing the pedal switch will toggle between modes as follows:

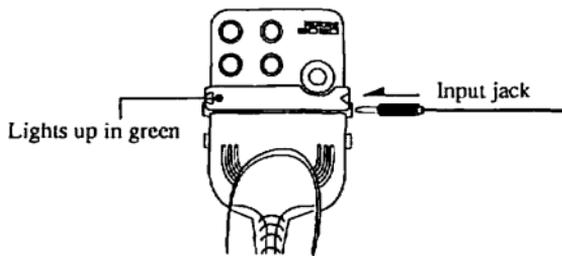


## Selecting the Sound Character in Program Mode

This mode serves to store and recall a group of settings in the internal memory of the 5050. By switching between manual mode and program mode, you can quickly select two different sound character settings, for example during a performance. The optional foot switch FS01 can also be used to give you even more flexibility for mode switching.

## Using the Controls of the 5050

1. Insert a cable plug into the input jack of the 5050 while pressing down the pedal switch with your foot. The POWER indicator lights up in green. This shows that the 5050 is in program mode.



2. Adjust the controls in the same way as for manual mode.
3. Push the pedal switch once more and the current settings are stored. The POWER indicator then goes out and the 5050 is in the bypass mode. The next time you choose the program mode, the stored sound character settings will become active again. The stored settings are maintained also while the unit is turned off.



*Only the settings of controls that were adjusted after activating the program mode are stored.*

4. When you now push the pedal switch, the POWER indicator lights up in red and the unit is in manual mode. You can now adjust the controls to a different sound character setting.

This completes the program mode and manual mode setup. Whenever you select program mode, the stored settings will be active, regardless of the current control settings. In manual mode, the current control settings are active.

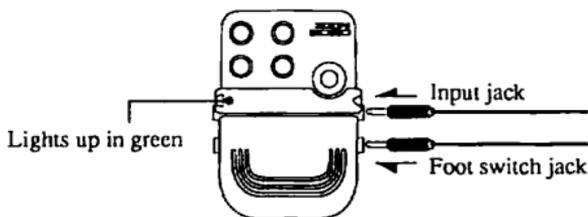
## Effect changes

Pushing the pedal switch will cycle through the modes as follows:



## Using the Foot Switch FS01

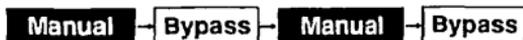
1. Connect the foot switch FS01 to the foot switch jack and the instrument to the input jack of the 5050. The POWER indicator lights up in green. This shows that the 5050 is in program mode.



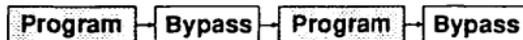
2. Adjust the controls in the same way as for manual mode.
3. Push the foot switch FS01 or the pedal switch on the 5050 and the current settings are stored. The POWER indicator then goes out and the 5050 is in the bypass mode.
4. When you now push the pedal switch, the POWER indicator lights up in red and the unit is in manual mode. You can now adjust the controls to a different sound character setting.

## Effect changes

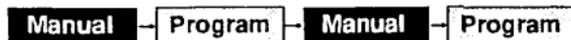
Pushing the pedal switch will toggle between the following modes:



Pushing the foot switch FS01 will toggle between the following modes:



If you push the pedal switch and the foot switch FS01 alternately, the modes will change as follows:



(The pedal switch activates the manual mode and the foot switch FS01 the program mode.)



*Pushing the pedal switch in bypass mode selects manual mode, and pushing the foot switch FS01 selects program mode.*

*To change the stored program mode settings, alter the control positions while the 5050 is in the program mode and then push the pedal switch or the foot switch to store the new settings.*

# Color Settings

You can choose between seven different color variations, each with a distinct character produced by a certain effect and sound character combination. Simply put, you can think of the 5050 as seven different effecters in a single unit. By selecting the color that is most suitable for the current requirement, the 5050 can be applied to a wide range of uses.

## CHO REV

Combines a refined chorus effect with complex, natural-sounding reverberation, ranging from small room to hall size spaces.

**TIME control** Adjusts the reverb time from 0.5 to 3.5 seconds. Turning the control clockwise increases the reverb time.

**DEPTH control** Adjusts the reverb mixing ratio. Turning the control clockwise increases the depth.

## CHO DLY

Combines a natural, low-modulation chorus with a ping-pong delay, suitable especially for rhythmic, percussive effects. In a monaural setup, the left and right delay components are mixed, reducing the delay time by half.

**TIME control** Adjusts the delay time from 1 to 220 milliseconds. Turning the control clockwise increases the delay time.

**DEPTH control** Adjusts the delay feedback ratio. Turning the control clockwise increases the number of feedback cycles.

## MULTI CHO

Multiple chorus effect with up to eight voices, produced by a special multi-layer algorithm. As opposed to conventional digital chorus effects, the sound is highly natural and has rich texture.

**TIME control** Adjusts the depth of the time chorus. Turning the control clockwise increases the depth.

**DEPTH control** Adjusts the chorus texture. Turning the control clockwise increases the number of voices, for a richer sound.

## DOUBLING

A combination of doubling and early reflection effects, resulting in a solid, energetic character. Suitable for creating a compact, thick sound when used together with distortion.

**TIME control** Adjusts the early reflection mixing ratio. Turning the control clockwise increases the depth.

**DEPTH control** Adjusts the doubling time. Turning the control clockwise increases the feeling of spaciousness.

## DIMENSION

A combination of detuning and chorus effects, with a wide adjustment scope, ranging from transparent sound with little modulation to a forceful modulation effect.

**TIME control** Adjusts the chorus modulation rate. Turning the control clockwise increases the rate.

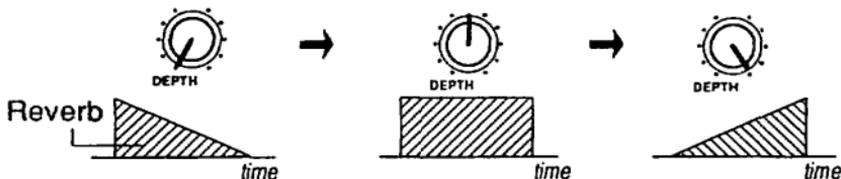
**DEPTH control** Adjusts the chorus mixing ratio. Turning the control clockwise increases the feeling of solidity and spaciousness.

## AURA

Combines detuning and short reverb. Depending on the position of the DEPTH control, the effect resembles a gate reverb.

**TIME control** Adjusts the reverb time. Turning the control clockwise increases the reverberation intensity.

**DEPTH control** Adjusts the reverb envelope.



## DELAY

Long delay effect with delay times up to 1,000 milliseconds.

**TIME control** Adjusts the delay time from 0 to 1,000 milliseconds. Turning the control clockwise increases the delay time.

**DEPTH control** Adjusts the delay feedback ratio. Turning the control clockwise increases the number of feedback cycles.



*Except for DELAY all color settings are stereo effects. However, even using the settings in a monaural setup will provide adequate spread.*

*Adjusting the TIME and DEPTH controls while the sound is turned up can lead to noise. This is normal and not a defect.*

# Effective Use of the Program Mode and Manual Mode

By combining the program mode and manual mode, you can use the 5050 in many exciting ways. This section describes some examples, but you will certainly be able to come up with other uses of your own.

## 1. Changing the color setting for different songs

Select a different sound character setting for manual mode and program mode, and use the two modes for different songs, such as up-tempo numbers and slow ballads. You can also switch between doubling (short delay) and full-bodied chorus effects.

## 2. Changing the sound character for lead and backing parts

For example, select DIMENSION and set the TIME control to a high position in manual mode and a low setting in program mode. Then use the manual mode for clean-sounding backing parts and the program mode for lead solos with distortion. You can also make a distinction between playing arpeggios and riffs, respectively.

## 3. Changing the delay time for different songs

When changing the CHO DLY and DELAY color settings, the delay time can be adjusted with the TIME control. By selecting a different delay time for songs with different tempos, you can achieve a quick and smooth transition without having to adjust the control during a performance.

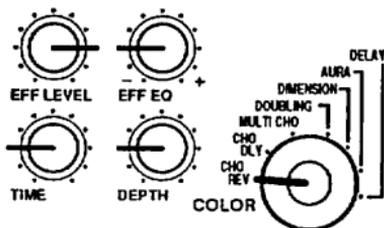
## 4. Change the effect EQ for different songs

For example: to switch between a soft and sharp sound character, set the EQ control to different positions in manual and program modes. This allows you to create slight mood changes between similar songs.

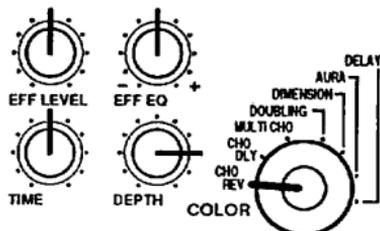
# Specifications

<b>Power supply</b>	Six IEC R6 (size AA) batteries (supplied) AC adapter AD-0003 (option)
<b>Power consumption</b>	140 mA
<b>Controls</b>	EFF LEVEL, EFF EQ, TIME, DEPTH, COLOR
<b>Indicator</b>	Power LED (also serves for indication of effect on/off, mode, and battery status)
<b>Connectors</b>	Input, Output (L/MONO, R), Foot switch
<b>Input impedance</b>	470 k $\Omega$
<b>Output impedance</b>	1 k $\Omega$ (mono), 2 k $\Omega$ (stereo)
<b>Dimensions</b>	116 (W) x 160 (D) x 57 (H) mm
<b>Weight</b>	880 g (1.96 lbs.) (including batteries)

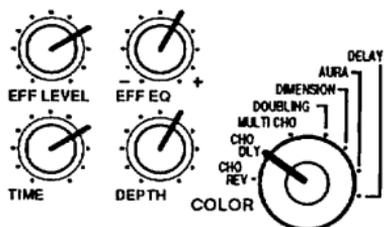
# Setting Examples



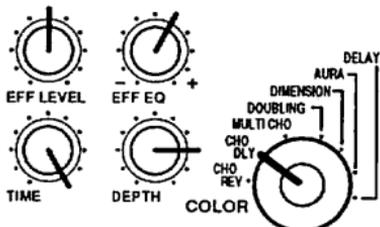
**JAZZ CLUB**



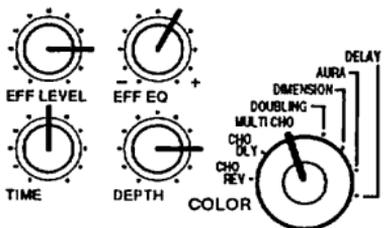
**CATHEDRAL**



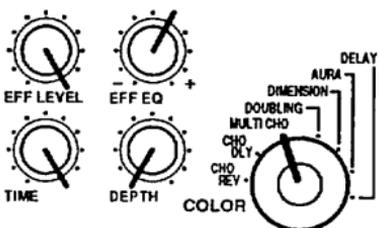
**BRITISH RHYTHM**



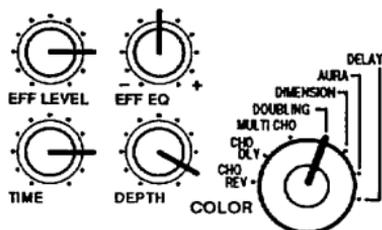
**SYMPHONIC ECHO**



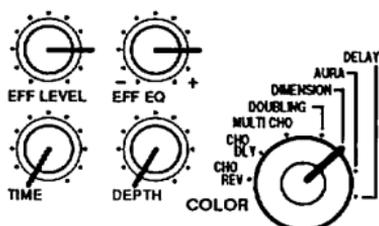
**ZOOM CHORUS**



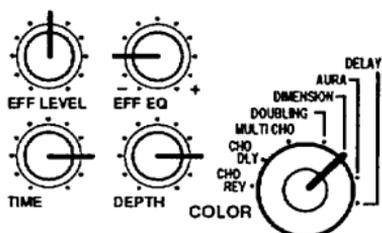
**ORGAN CHORUS**



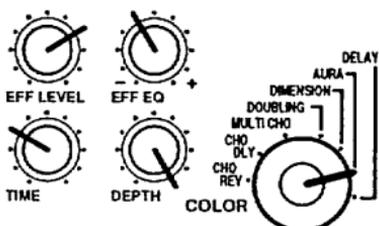
## DOUBLE ROCK



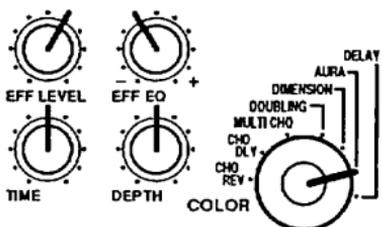
## GOSPEL CHORUS



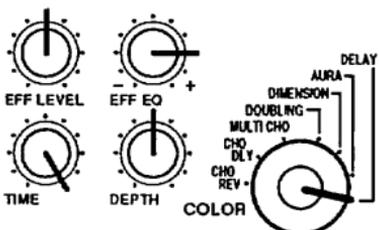
## AMAZING GRACE



## REVERSE WASH



## SOLO AMBIENCE



## DEEP SPACE

# Blank Program Chart

