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1967 MAGNUS ORGAN CORPORATION

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The combo organ is now recognized as an integral part of the tremendously popular combo groups that have formed in the past five years. These groups usually consist of Lead or Melody Guitar, Rhythm Guitar, Bass Guitar and Drum. Amplification gives the listener the impressive dimension of much larger instrumentation. In the last few years, the combo organ was integrated within already compact combo orchestras. When augmented by the combo organ, the impact of a solid and tight rhythm is delivered to the listening audience as never before.

The Magnus Organ Corporation, through years of electronic research, has given the combo musician a fine combo organ at a price within reach of everyone who loves music. But Magnus engineers wanted more for their organ than any previous combo on the market, so they developed the 3-D Combo Organ featuring the Magnus "Q" Chassis.

## WHAT IS 3-D? (Three Dimensions of Sound)

1-D An internal solid-state amplifier, with space-age components delivering audio power to satisfy the needs of most combo groups.

2-D A speaker system capable of reproducing audio fidelity through internal amplifier circuits within its own dynamic self-contained Magnus "Q" Chassis Audio System.

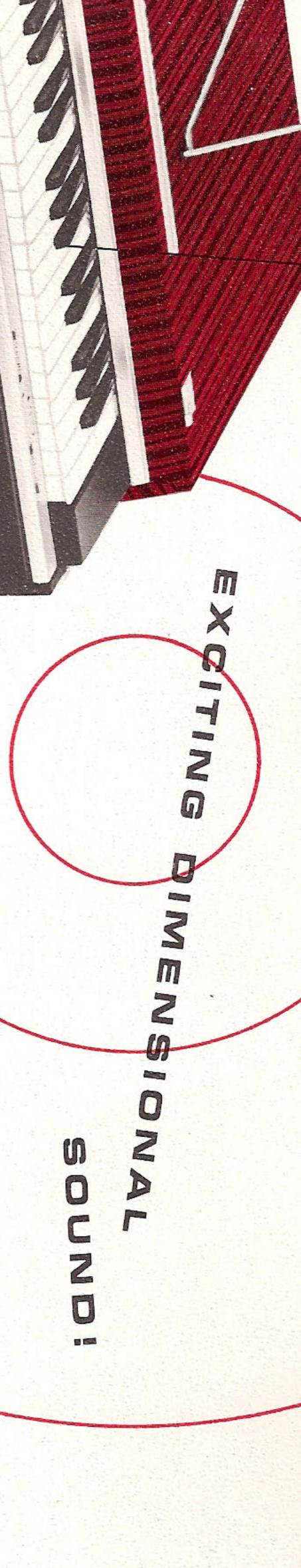
3-D An external output feed allowing the Combo to be used:

(1) with earphones for personal listening, (2) with the most powerful external amplifiers up to 200 watts of music power, (3) "Siesta Speaker Sound" (4) Remote speakers.

The pages of this Manual contain all the fabulous facts of the Magnus "3-D" Combo Organ and the wide variety of effects with the amazing Magnus "Q" Chassis Audio System.

MAGNUS ORGAN CORPORATION

Sanford Hertz MUSIC DIRECTOR 4 9 EXPRESSION CONTROL CABLE 10 PATCHING JACK 8 MACNUS "Q" CHASSIS 12 FIVE VOICE TABS 11 MAGNUS EXPRESSION 13 VIBRATO SPEED CONTROL 7 SPECTROSONIC SPEAKER 74 VIBRATO INTENSITY CONTROL 6 SLIMLINE 51/2-INCH CABINET 5 MUSIC RACK 75 BASS REGISTER CONTROL SHOCK PROOF, SKID PROOF 4 FULL, 4 OCTAVE KEYBOARD. 16 CIRCUIT BREAKER RESET BUTTON 3 LEGS (SELF-LEVELING) 7 SELECTOR SWITCH FOR EXTERNAL AMPLIFIER 2 COVER LOCKS 1 CARRYING HANDLE T8 AUDIO OUTPUT JACK IR EARPHONES, PROVIDES "SIESTA SPEAKER PEDAL, 49 KEYS, C



- The Magnus "3-D" Combo Organ is new in concept . . . Excitingly new, dramatically different in appearance.
- The Magnus "3-D" speaker system. Combo Organ is the first Combo in the nation featuri ng its own ampli-
- This feature combination was never before possible with any combo!
- Wide range of audio response delivers full spectrum from theatre whisper . . . at the musician's command. sound levels to a mere
- A "Flick of a Tab" instantaneously provides a full four octave bass register.
- 31 exciting combinations of sound with 5 voice tabs.
- Speed and intensity control for complete variance of vibrato.
- this output will be switch, "siesta sound" will emit from the internal speaker of the organ. "down" position, a lower sound level. would be delivered to the earphones or amplifier. "up" A unique selector switch is located in the rear panel of the Combo Organ or speaker. In short, the selector switch in "up" position, position, it provides maximum audio sound to using the provided when earphone or external amplifier external outlet is used for position offers a high ou In the "down" the internal outlet, remote speaker position amplification, earphones, maximum The same reduced tput of sound; in . When placed in of the of the delivered audio organ. power 'n

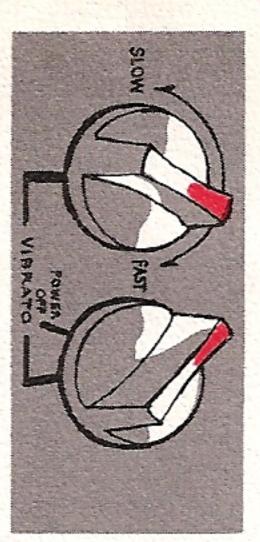
## SPECIAL FEATORES



#### 4 OCTAVE KEYBOARD

4 full octaves, C to C. True to the 440 international pitch. 49 piano keys. 12 note manual bass (converts to a full 49-key bass register) on flute voice tab. Keyboard scien-

tifically designed to allow chord formations never before possible with one hand. Creative tonal effects are now relatively easy to accomplish.



#### VIBRATO CONTROLS

Two vibrato rotary controls. Intensity and speed separately operated to allow maximum "dip" and "speed" variation. The chrome-

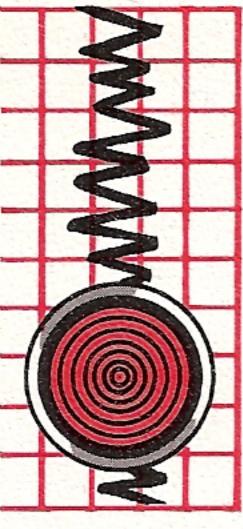
accented controls are located on the gleaming console panel to the left of the Magnus 3-D Combo keyboard.



### BASS BALANCE SHADING

Full spectrum range to allow perfect balance between rhythm bass and treble melodic output. The professional touch that means so

much to the combo musicians is incorporated in this bass balance range. The Magnus Combo provides the finest bass blending.



## INSTANT-ON POWER SWITCH

Incorporated in vibrato intensity control. Power switch, designed for use with 117 volts A.C., 60 cycles, assures instantaneous output from

solid state fully transistorized "Q" chassis. Magnus assures you of immediate audio without time-consuming warm-up periods.

#### VOICE TABS

Five individual smooth-action rocker type tabs: Full Organ, Oboe, Strings, Flute, and Horn. Allows multi-combinations of solo instru-



ment voicing; adds full depth and dimension to musical rendition.

Tabs are located on the satin chrome console panel.

#### FLUTE TAB VOICING

Automatically renders 4 octave walking bass for all 49 keys on the Combo organ. Touch the rocker tab to establish full 49 key bass register conversion. This Magnus feat the command of the player.



rsion. This Magnus feature places an integrated bass and of the player.

## CONSTANT BASS CONTROL

Automatic, built-in Magnus feature. The bass octave provides its own separate flute voicing circuit. This allows changes of voicing with no



interruptions of bass output. Professional effects are assured with the smoothest transition possible on a combo instrument.

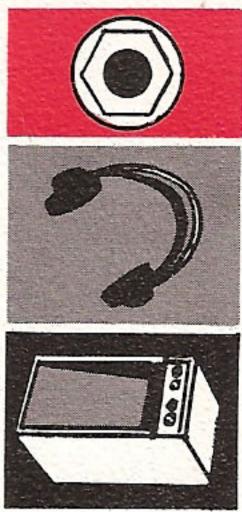
#### MIXTURE FEATURE

31 combinations of voicing. Delivers every degree from "Harsh to Mellow"; possible at a flick of a tab. See the center fold of this manual to acquaint yourself with the table.



manual to acquaint yourself with the myriad of combinations your voicing circuits offer.

#### n DMCIAL TM A TO DM



#### REAR PANEL FEATURES

outlet for those desiring silent pracphone Rear panel jack allows: (1) Earphone selector switch (2) "Siesta and

let. A full choice of outlet uses Sound" (3) External remote amplifier outlet. (4) External speaker outfor every Combo musician. tice sessions. Speaker



#### EXPRESSION PEDAL

to peak volume output. Slip-proof, control with smooth rocker Instant response from near Full spectrum foot pedal volume silence action.

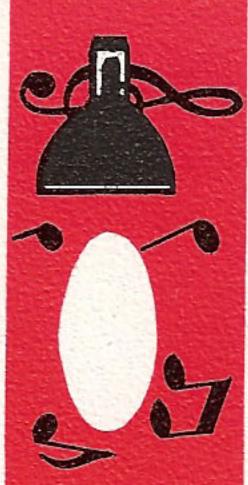
included with your organ. chrome-plated, handsome appearance. The Magnus Combo expression pedal is one of the finest in the industry; an outstanding value accessory



#### SAFE CIRCUIT RESET

might damage maximum protection to Circuit breaker control protects against voltage amplifier. overload Combo which Gives

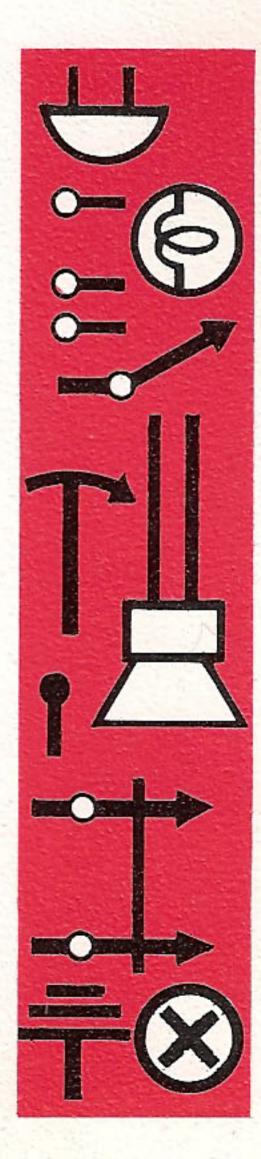
fuse again with a touch of your finger. electrical circuits. Reset button on back of organ serves as an automatic which never needs replacement. It can be reset over a nd over



#### SPECTROSONIC SPEAKER SYSTEM

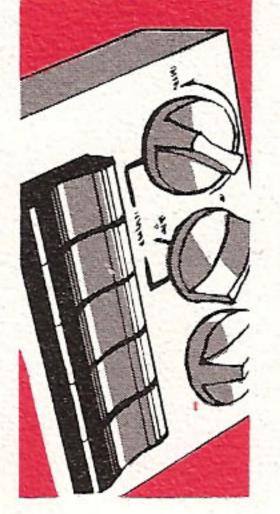
Magnus Spectrosonic speaker is mid-range loaded reflex cabinet design. The Produces bright vivid highs, clear notes, and lows. Rear-

dramatic proof of the quality built-in to your Combo organ. P speaker is a Magnus exclusive feature. Size 6" x 9", oval, heavy duty. roviding



#### MIRACLE "Q" CHASSIS

Low ited imum reliability and long life. stability to bridged "T" oscillators. Gold-plated key contacts for max-Bass Oscillators, ultra-stable with the following factors: • Designed for use with 105-125 volts loss printed circuit boards of carbon resistors • Polystyrene capacitors • special design A.C. 60 cycles. All Treble Silicon Transistors. to give 2% deposoptimum and



#### CONTROL PANEL

vibrato tabs. cuit | Vibrato Includes: Bass controls Five rocker-type voice with ability to eliminate speed and strength compensation cir-



#### PORTABILITY

electric cord. sion pedal, connecting cable and age compartm One compact ent to hold expresunit; includes stor-

#### DIMENSIONS and WEIGHT

inches. Overall height: With legs, 331/2

Height to keyboard: With legs,

311/2 inches. Width: 321/2 inches.

Cabinet Thickness: 51/2 inches.

pedal, and music rack: Weight: With legs, expression 411/2 lbs

Depth: 20 inches.

Shipping Weight: 48 lbs.

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## THE LOOK OF THE FUTURE

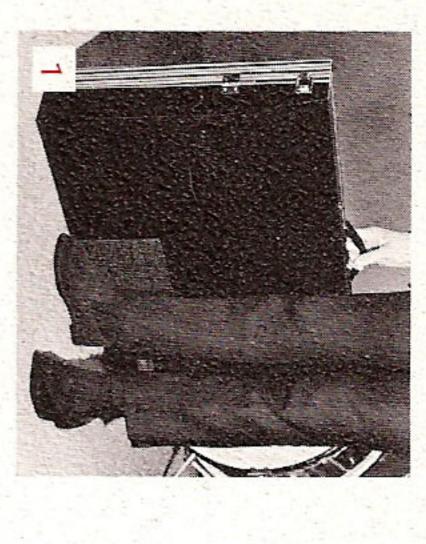
Satin-chrome console is smooth to the touch and luxurious to the eye. The panel is accented with gleaming chromed controls for vibrato and harmonic balance, jet black rocker-type tabs for voicing arrangements. The futuristic look is built into your Magnus 3-D Combo. This control console identifies your instrument as "years ahead" in styling and performance.

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## POSITIVE ACTION CONTROLS

Vibrato speed, clearly marked "Slow-Fast." Vibrato strength, Weak-Strong. Both controls offer 270-degree rotary action for widest choice of vibrato accents. Bass balance control also rotates a full 270 degrees to allow for soft or loud bass response plus infinite variance in between. Rocker tabs permit 31 tone combinations. Four-octave "Walking Bass" in Flute tab.

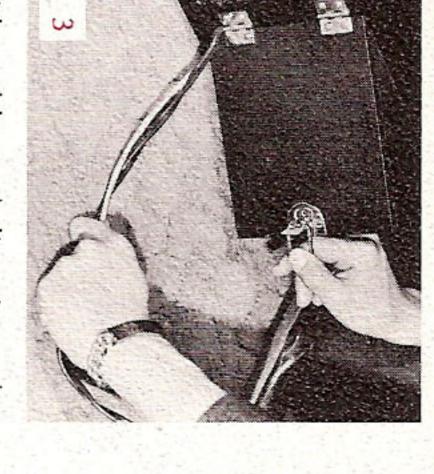
## Set-up and Assembly



Always carry Combo Organ by handle; set gently on level surface with brackets for legs facing toward you.



Open the compartment door which holds the expression pedal, patching cable, and electric power line. Remove all.



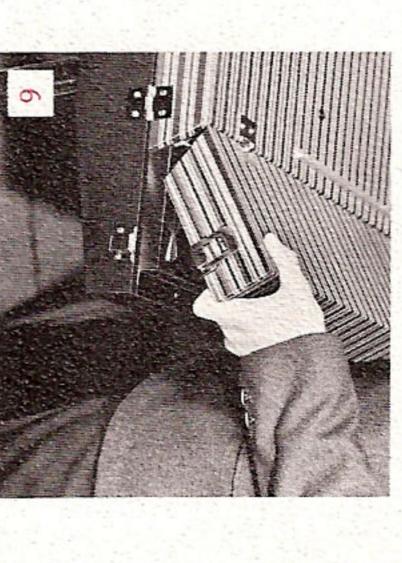
Slide cable and line into slot provided; close and lock compartment door securely to prevent vibration of locks while playing.



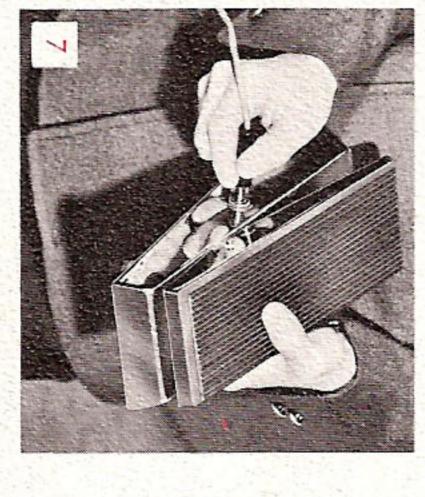
Attach lower right leg (back right) to bracket. Be sure leg is firmly set; then, attach other legs in their positions.



Now, firmly grasp Combo Organ by front and rear of cabinet and lower gently with legs down, to floor or platform.



Unlatch the keyboard and control panel protective cover and place in safe location where it can be located after the session.



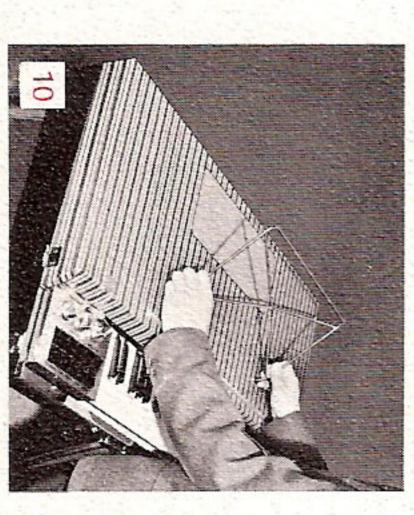
Plug the phone plug into expression pedal receptacle. When inserting always grasp plug, never the cable.



Then plug the electric chord into proper matching outlet (117 volt A.C.). Use an extension cord, if necessary.



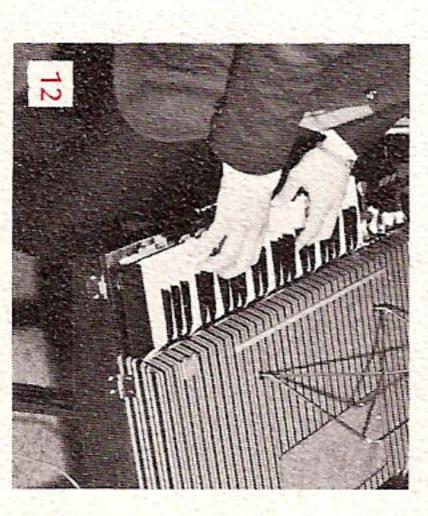
Place expression pedal in desired position. Use your right or left foot. (No set rule is used by combo musicians.)



Place music rack (if desired) into position and press ends of rack firmly into the two receptacles provided at top of cabinet.



Turn power switch to the right. ("ON" position). Power switch is located on the vibrato intensity control within the console area.



Your Magnus "3-D" Combo Organ is ready to play. Note: Reverse the above procedures to disassemble your Combo.

QUAD

Full Organ

Other

Strings

Flute

F<sub>ull</sub> Organ

Ohoe

Strings

F<sub>ll</sub>l Organ

Ohoe

Flute

Full Organ

## 31 Voicing Combinations...

WITH OR WITHOUT VIBRATO

SINGLE

Full Organ Flute Full 書 Ohoe

DOUBLE

Organ

믊

Organ

Strings

TRIPLE

Full Organ

Oboe

Strings

Full Organ

Obe

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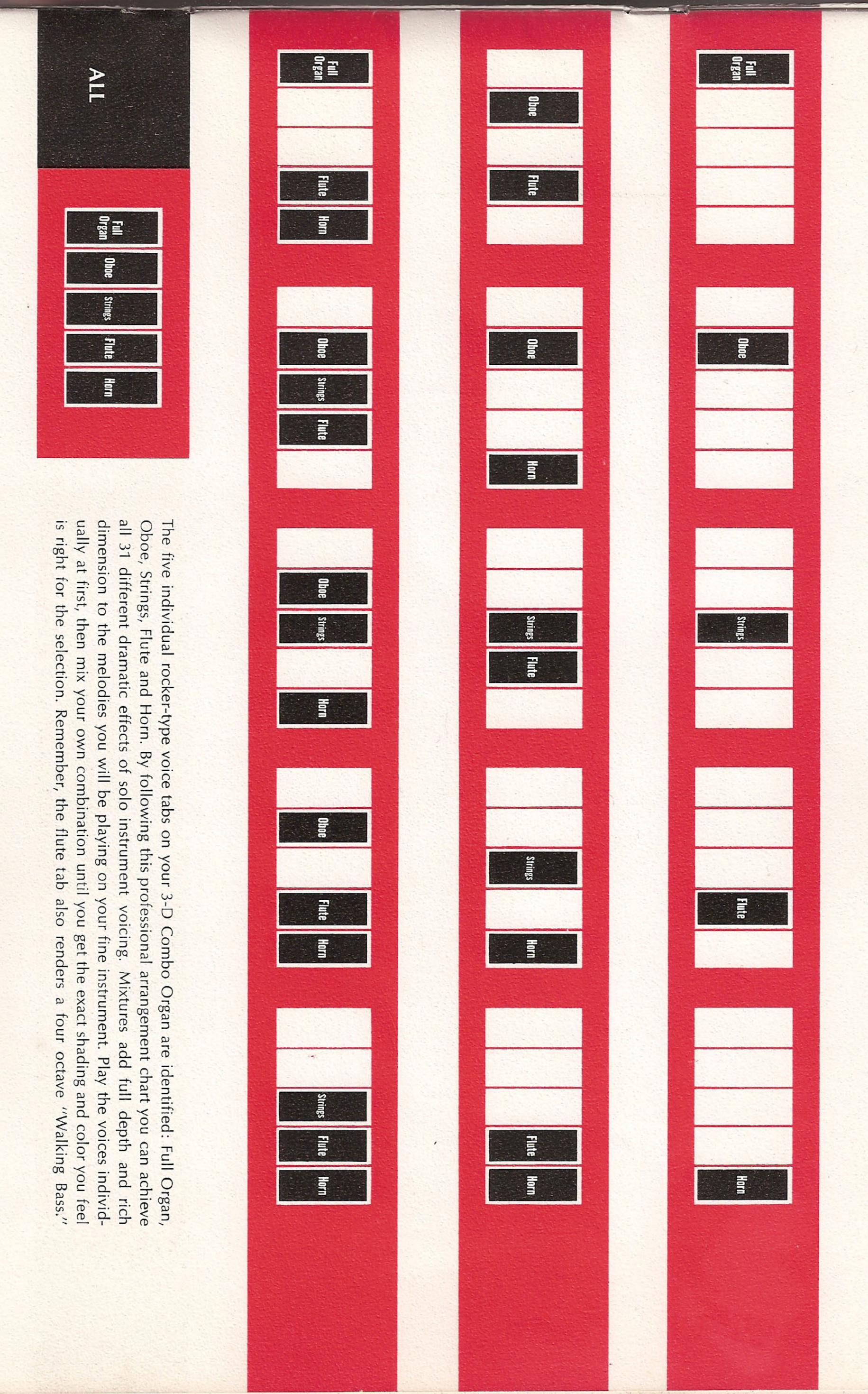
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Strings

Form

Full Oboe Horn Grgan Strings Flute Grgan Grgan

Strings Flute Horn Oboe Strings Flute Horn



With Combo set up and power switch "ON", place all voice tabs "OFF" position. (Note: only first 12 keys, bass register, operate.) C to B.



2 Try varying output of bass with bass control and foot expression pedal. (Attain good bass output without overloading.) Now, try the 31 combinations of voice tabs with bass control at "3/4 open" position.



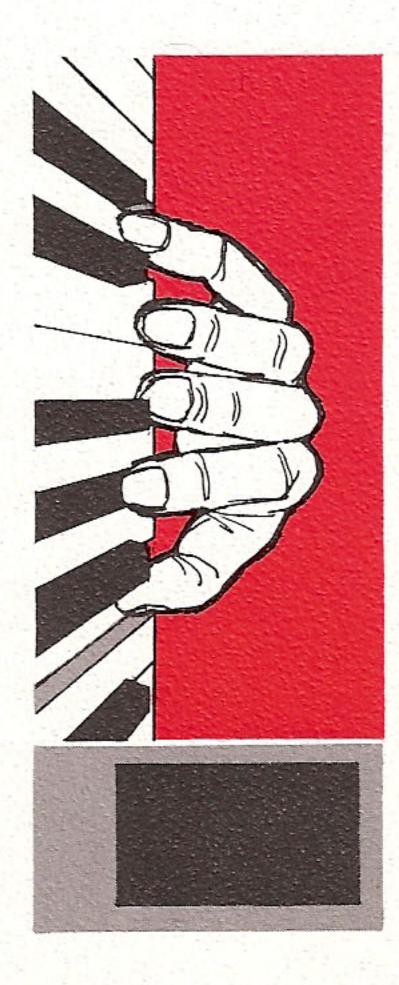
Magnus

Organ

Playing



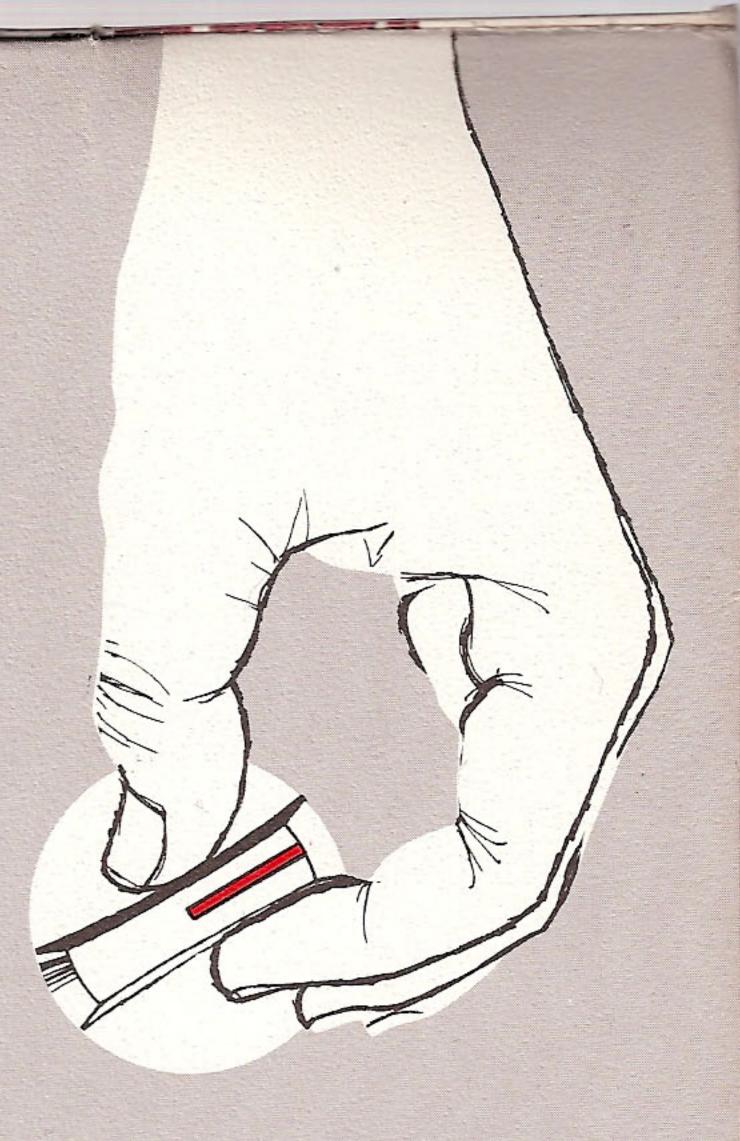
Use flute voice tab, alone. This voice tab will supply you with a full four octave "Walking Bass" sound. Then try the vibrato controls. (See next page.)

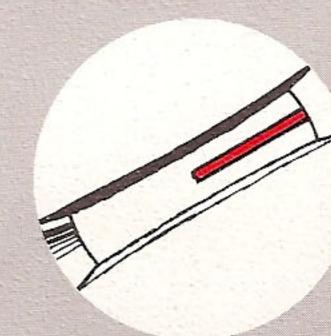


Mix voice tabs without loss of bass register, a technique vital to the combo musician; a correct audio balance of bass and melody is very important to the total tonal output of your Combo and the "pro" sound desired.



Now, familiarize yourself with the 31 combinations of voice tabs, with and without vibrato. Experiment with the foot expression pedal and enjoy your Magnus "3-D" Combo Organ.





## with the Vibrato Controls

The vibrato in your Magnus "3-D" Combo can be varied in both intensity and in speed.

It requires two controls to produce this desired effect:

The first selector on the control and voice panel, marked "Slow-Fast", controls the speed of the vibrato. This control will gradually increase or decrease the amount of vibrato per second.

The second selector must be fully turned to the right to attain speed control. The second vibrato control serves not only as a power switch, but when turned gradually to the right increases the depth or intensity of the vibrato.

It is of particular importance to experiment with these two controls to attain proficiency in the professional use of vibrato.

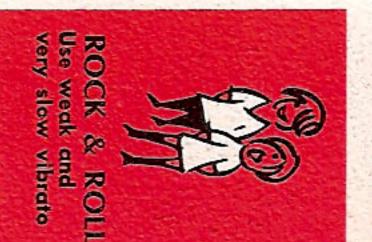
#### Defining "Vibrato" . .

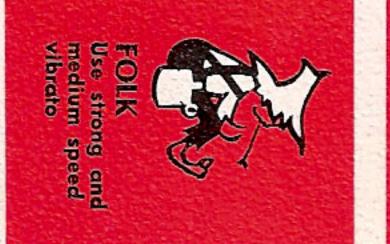
WALTZES
Use strong and medium vibrato

The word "Vibrato" means pulsing, throbbing, oscillating, musically speaking. Vibrato creates resonance, pulsating warmth and expression to the music you create on your "3-D" Combo Organ.

Roll, short phase music for eral practice to use very little In the combo groups, which require very lit typical tensity, when playing staccato or vibrato both in speed and inenough for the full eft ance. (No one note is of music which require playing slow moving vibrato to be felt.) But, warmth and expression of grounds, the use of vibrato contones and sustained full opportunity to express itself lads and folk music give vibrato selections. trols enhances in beautiful effects. Latin-American, "up-beat" Waltzes, the wols fect of the held long tle reson-Si Ji beauty, rhythms and the passages Rock & longer backwhen genbalthe



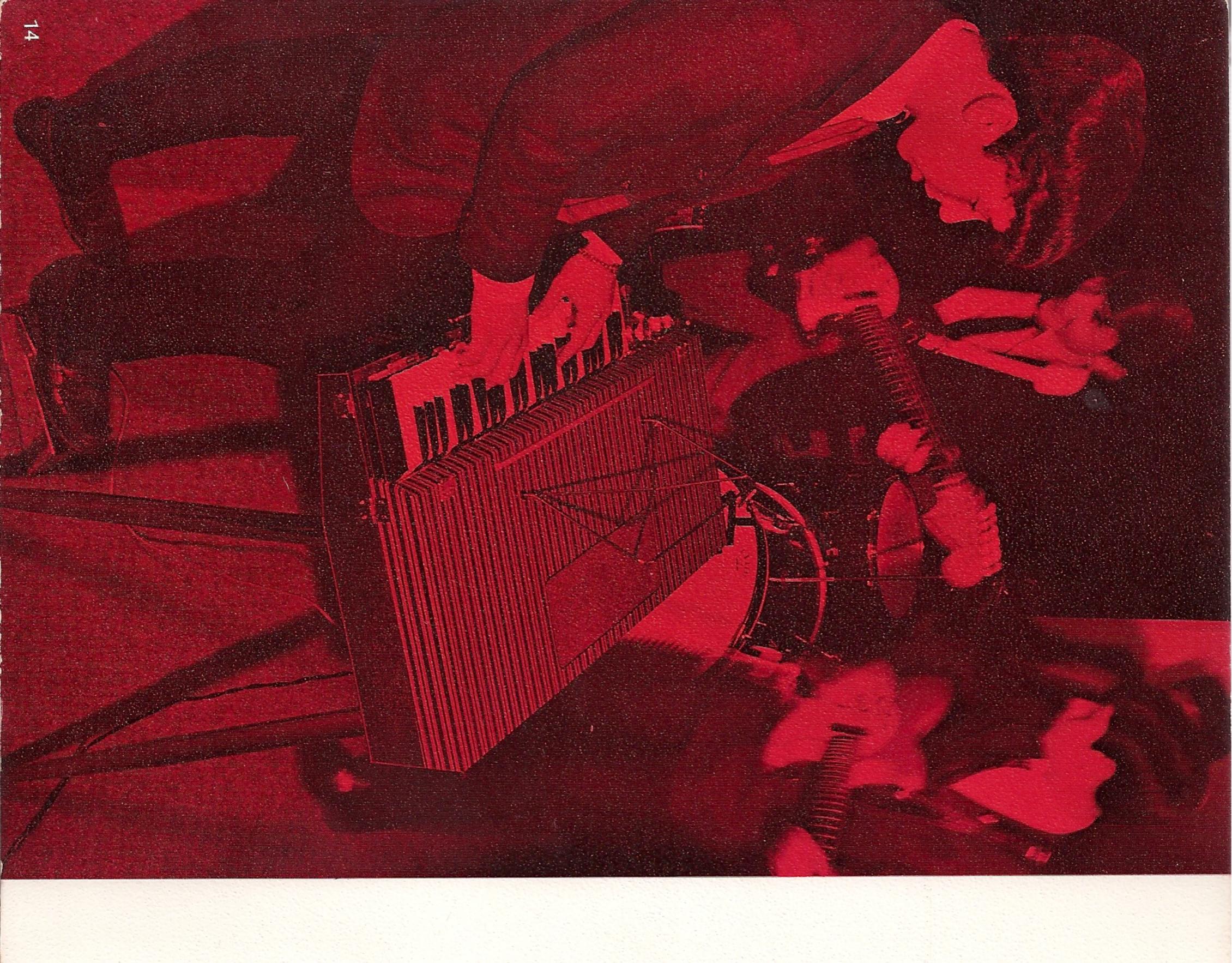






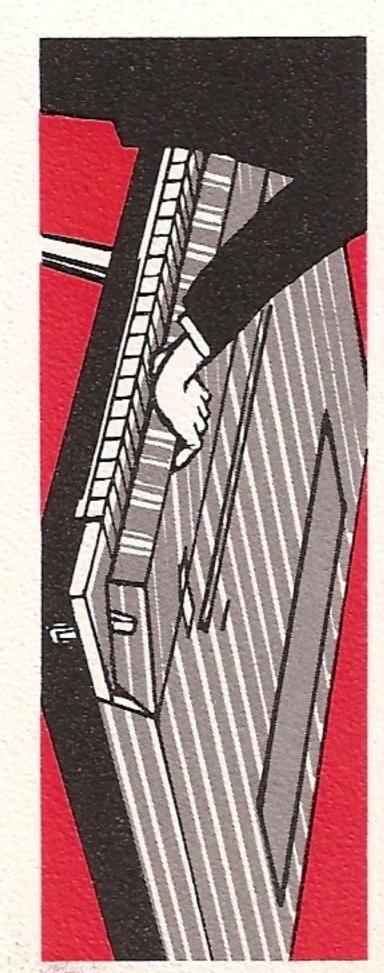


Use strong and fast vibrato



#### CARE OF Y OUR MAGNUS

proper care and maintenance age is minimized. studied carefully and memorized so that possibility of damstruction page on assembly MAGNUS Combo is a precision and disassembly should should be observed. musical instrument; The be P.



over any surface; accidents could happen. there is little traffic. We know that you would like to keep completely packed away or placed against a wall where A simple basic rule: Keep the combo, when not in use, either tripping over power cords or cables your Combo in "tip-top" condition. Never slide the Combo board should be in position and locked. Precautions against and the protective lid cover for the control panel and key-When not in use, power switch should be in "off" position should be observed.

the chrome expression pedal, a prints with a fine furniture dry cloth. Remove dust, fingerused daily. Be sure the Combo lint-free soft cloth should be luster of the chrome legs and Combo will maintain its luster by a simple dusting with maintain the high

CABINET MAINTENANCE: The

pyroxalin covering of your

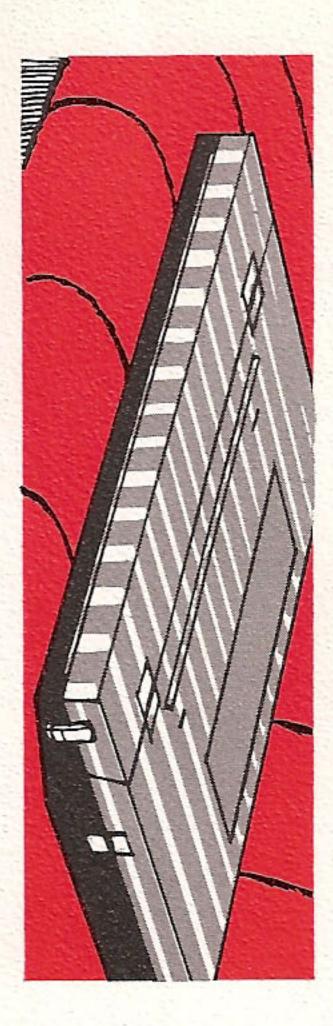


not to be used for any length of time. power switch is turned to "off" position when the organ is

## "3-D" COMBO ORGAN

KEY MAINTENANCE: To maintain the "just new" appearance of your keyboard, a lint-free cloth should be used. "Hard-to-remove" fingerprints and other soilmarks can be removed with a dampened cloth. (Caution: Never use any cleaning fluid, solvent or acids on the keyboard.)

LOCATION: The Combo is designed to operate in any normal room temperature. Extreme temperatures will affect the fine playing qualities of any instrument and the Combo is no exception to this rule. Avoid placing the Combo near heated radiators or in direct sunlight for any long period of time. Electronic circuits and the fine woods used in the cabinet construction should never be exposed to heat or sunlight.



TRANSPORTATION: When moving the Combo from one location to another, especially when the Combo is placed in an automobile, the following precautions should be taken:

(1) Place the Combo in a completely flat position with brackets for legs facing down to avoid rocking or tipping while in transit. (2) When removing from vehicle, be sure Combo is placed in a safe area to avoid abuse.

Your Combo should give you many years of fine service. If the above simple rules are observed, mechanical, cabinet, and electronic problems will be greatly reduced.

## Accessories

#### EARPHONE

The rear receptable output of your Magnus "3-D" Combo Organ provides an outlet jack for earphones. This is particularly advantageous when "silent sessions" are desired. Note: A regular phono plug is the terminal point of the earphone cord.

### EXTERNAL AMPLIFICATION

The earphone output can also be used for a remote amplifier and speaker system jack. (Note: When this receptacle is used, the speaker system within the Magnus "3-D" Combo Organ is automatically disconnected.)

This Magnus design prevents over-loading the internal speaker system.

## PROTECTIVE COMBO COVER

A heavy-duty innerlined canvas cover is available as an optional, extra cost accessory for your organ. This protective cover affords excellent protection for your instrument. It has zippered compartments which house the four chrome legs and music rack. Compartments can also hold auxiliary line cords, amplifier, patch cords, electrical extensions, music books, etc.

#### REMOTE SPEAKERS

Additional speakers may be used with the Magnus "3-D" Combo Organ with or without additional amplification. Your dealer can supply you with speakers matched to the output of your Magnus "3-D" Combo Organ.

See your local dealer for all the accessories listed above.

# ORGAN CORPORATION

1600 W. EDGAR ROAD (RT. 1),

LINDEN, NEW JERSEY 07036

electronic organs featuring the exclusive "Q" chassis. electric chord organs . The world's largest manufacturer of first again in precision

#### WARRANTY

All parts in your Magnus "3-D" Combo Organ are warranteed for 1 year. Any part proving defective will be replaced, free of charge, within 1 year from date of purchase.

For a period of 90 days, defective parts will be repaired or

replaced, without labor , defective parts will be repaired or charge, at any authorized Magnus

Service Center.

After 90 days, labor will be charged to the customer. After 1 year, both labor and parts will be charged for. The warranty must be registered at the Magnus Organ Corporation within 10 days of purchase. Failure to do so may invalidate the terms of this warranty. This warranty does not apply to any Magnus "3-D" Combo Organ which has been tampered with, altered in any way, or subjected to misuse, negligence, dent, or which has a serial number that has been of altered, or removed. defaced, or acci-

States and the Dominion of Canada. Warranty applicable within Continental limits of the

