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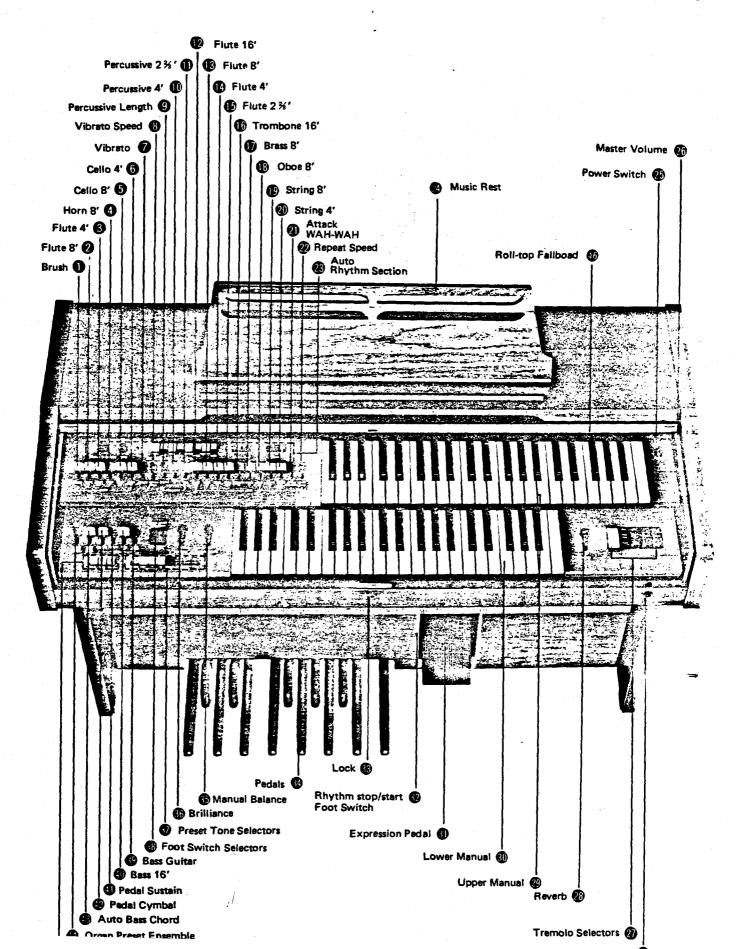
Introduction

Congratulations upon your selection of this Yamaha Electone. It is one of the world's most advanced musical instruments, carefully designed and built to provide a lifetime of musical enjoyment.

To make sure you derive the most from its generous features and durable IC & FET circuitry, please read this manual thoroughly before attempting to play. Then keep it handy for reference. Use it to develop your own techniques and to teach others. With a little care your Electone will become a creative center of family enjoyment for decades.



This is your Yamaha Electane BK-20A.



Keyboards

The BK-20A has three keyboards. The upper two are called "manuals" and the other, for the feet, composed of "pedals."

Upper Manual

44 kevs

 $(3\frac{2}{3})$ octaves)

Lower Manual

44 keys

(3¾ octaves)

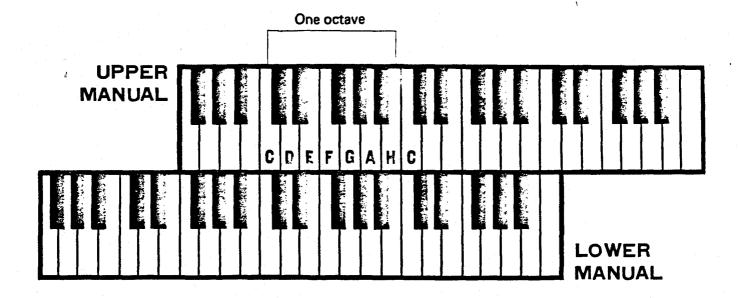
Pedals

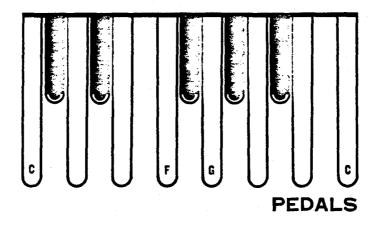
13 pedals

(1 octave)

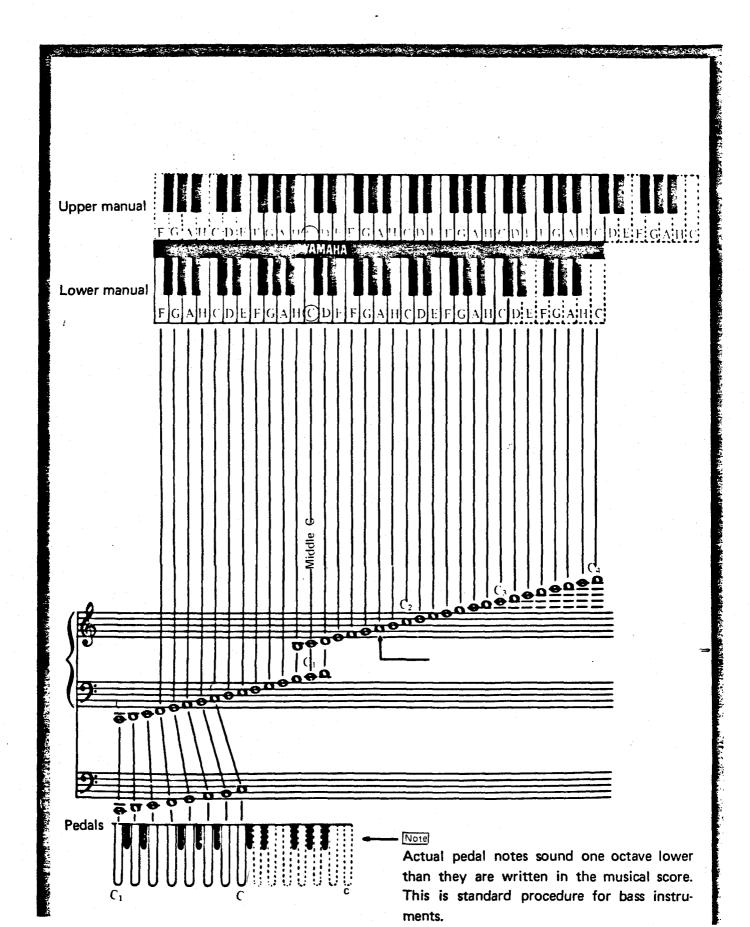
The Electone is designed to permit playing the melody on the upper manual with the right hand, the chords on the lower manual with the other, and bass notes on the pedals with either foot.

All keys and pedals are arranged in the traditional keyboard method: two black keys, three black keys. Each white key has a name (from A to G), and the blacks are sharps or flats. "C" is always the white key just below the left black key in the two-black-key group. Any complete set of seven white keys is called an "octave."





The Compass of the Electone BK-20A ...



Tone Levers

To the left of both upper and lower manuals are a series of tone levers which control the voices (instrument sounds) which will sound when the keys are depressed. They are divided into groups for upper, lower and pedals, so that different registration can be set for each.

Upper Manual Levers

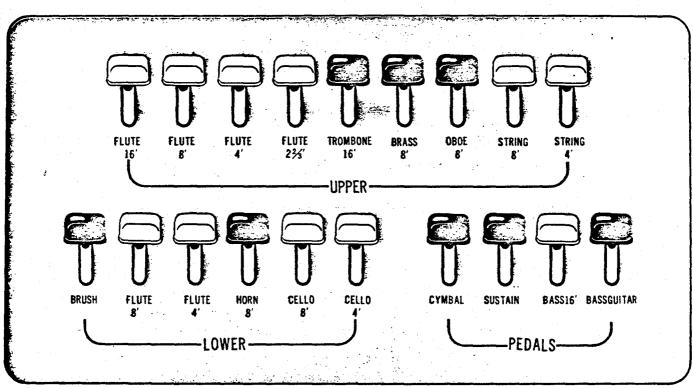
9 voices

Lower Manual Levers

5 voices

Pedals

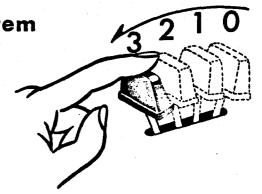
2 voices

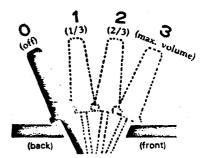


Exclusive Yamaha Tone Lever System

Each lever provides two methods of control. One is by continuously moving the lever from off to full, to achieve the exact setting for that tone, and thus balancing the overall tone setting with perfect precision. Each lever also has two easy-to-feel click stops, at 1/3 and 2/3 positions. This lets you refind any setting with mathematical precision and no guesswork in a matter of seconds.

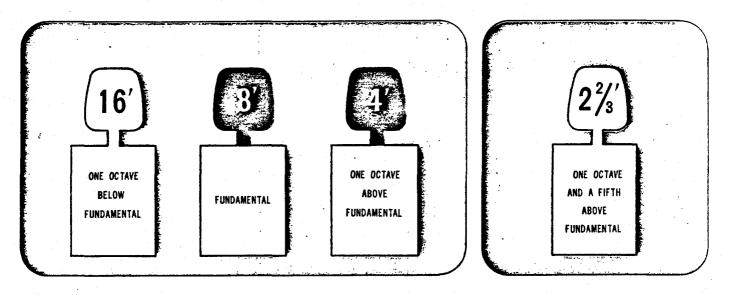
Bear in mind that the total tone lever settings for a particular manual will affect that manual's overall volume. This will be an expressive aid if used properly, a drawback if it is forgotten.



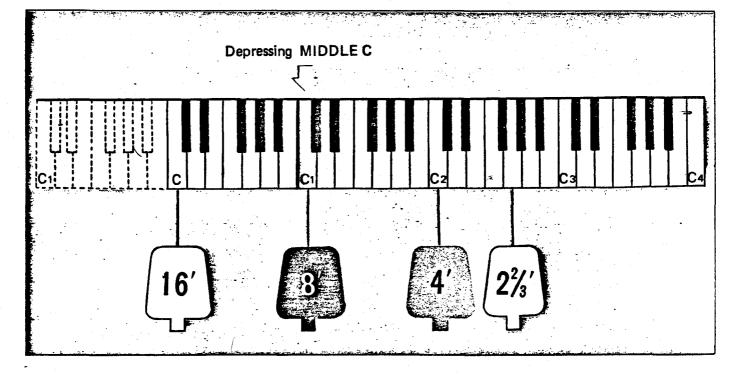


Harmonics

The BK-20A has four different tonal harmonics, indicated by the numbers 16', 8', 4' and $2\frac{1}{3}$ '. These are standard organ abbreviations showing the tone's pitch in relation to the fundamental (written note). An 8' tone will sound just as it has been written. A 16' tone (meaning that the wave length of the vibrations are twice as long as 8', or half as fast) will provide a tone exactly one octave lower than the written note. Similarly, 4' tones are one octave higher than the written note, and $2\frac{1}{3}$ ' tones one octave and a fifth above the fundamental.



For example, if you press middle C, corresponding to the keys in the chart below will sound be produced.



In other words, the 16' lever extends the lower manual a full octave as shown by the dotted line in the

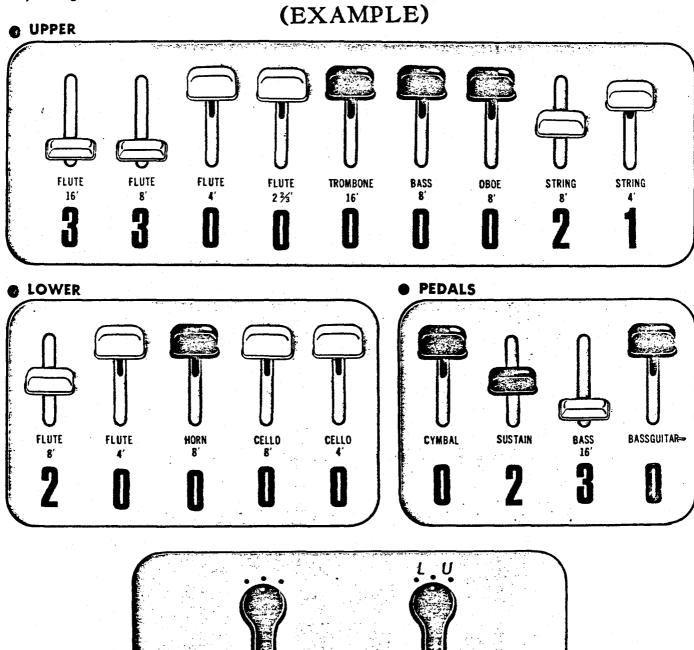
Tone Levers Registration.

For the best result of your performance, you should always take into consideration the correlative tone volume balance among the three keyboards i.e., upper manual, lower manual and pedals.

When you wish to emphasize the melody played on the upper manual, for example, the volume of the lower manual and pedals should be kept under that of the upper manual. On the contrary, if you want to stress the accompaniment part on the lower manual or pedals, the volume of that particular keyboard should be adjusted relatively larger than the others.

Yamaha's unique variable volume control tone levers enable you to control this correlative tone volume among three keyboards. Judge by your own ears and adjust the position of tone levers in advance. Each tone lever slides continuously from off to full volume for sensitive balance control.

Three distinct stops also convenient to click your favorite tonal combinations into place for quick, easy, easy settings.



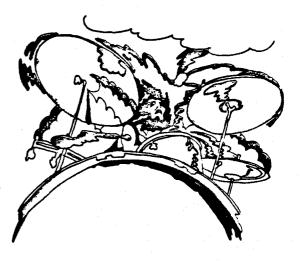
Effect Levers

These levers control a variety of effects which add a host of tonal variations to the Electone's voices. Each lever works in the same way as the tone levers, with both infinitely-variable continuous control and click-stop settings.

● Upper Percussive: ⑨⑩ ❶

Changing the beginning of some or all notes can do wonders for lively selections. Your Electone's percussive effects provide subtle but important shading at the moment each note is heard. The special popping 4' and $2\frac{1}{3}$ ' percussive drive can be smoothly blended into all upper manual tones with two variable levers (4' and $2\frac{1}{3}$ '), and a separate lever Length regulates the length of decay for these effects.

With percussive, use a detached fingering. Each note should be played cleanly; slurred notes will diminish the percussive impact.



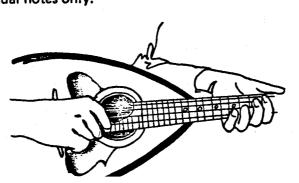
● Vibrato: 7 8

Vibrato is an emotional wavering applied to a tone most noticeable in the trembling left hand of violinists and cellists. It can add a great deal to the emotional depth of a passage, especially string voices. The Vibrato lever provides continuous adjustment of this effect's depth while Vibrato Speed lets you continuously set the vibration speed.

Repeat Speed :

Cuts and repeats each note just like the double-strumming effect of a mandolin. The lever provides continuous speed adjustment to create a full variety of different moods.

Affects upper manual notes only.





Attack Wah Wah : 4

Provides a subtle muting effect at the beginning of each upper manual note. It works on successive notes even if the first is held down.

Pedal Sustain: 10

This control provide continuous adjustment of the sustain effect on the pedals concerned. For the pedals, this is the only sustain control, and it affects all pedal tones with the exception of Bass Guitar with sustains Automatically.

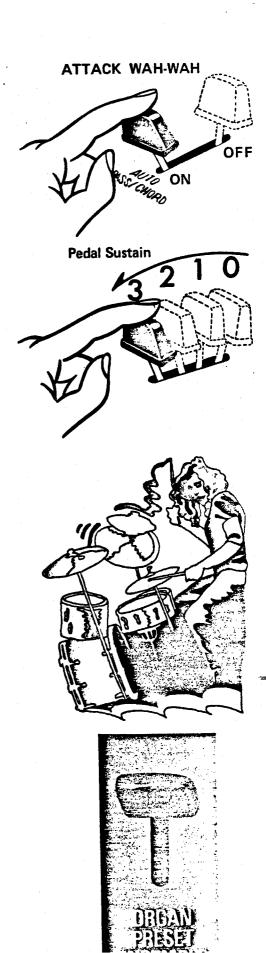


Pedal Cymbal: Pedal Cymbal:

Provide lively brush (hissing snare drum brush) and cymbal percussion sounds with each lower manual or pedal note.

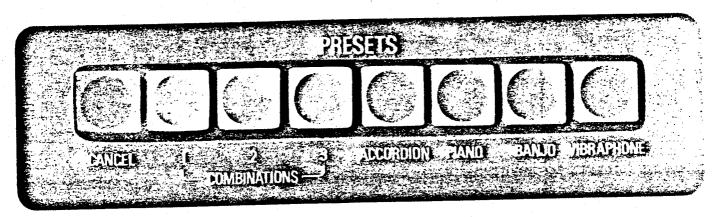
C Organ Preset Ensemble: (1)

This lever controls the effect which add the upper tone to the upper preset tone (Accordion, Piano, Banjo, Vibraphone.) (See page 10).



Uper Preset Tones -

To the left of the lower manual are eight Upper Preset Tone controls (seven tones plus Cancel). These on/off switches are special tonal blends that most closely resemble the instruments they name (Accordion, Piano, Hawaiian Guitar, Banjo) as well as three special preset combinations.



These selectors have two characteristics which must be remembered. Since they are factory preset, they automatically cancel all other upper manual tone lever settings. This lets you switch back and forth. In addition, precedence is to the right. This means that if two or more buttons are pressed, the one to the right will take effect. To switch from one button to another it is not necessary to first press the cancel button.



Effect Controls and Selectors

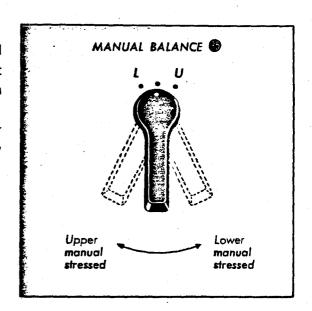
Manual Balance :

This control governs the relative strength of the upper and lower manuals. It is normally left in the center position, but can be shifted to stress the melody or accompaniment in a selection or passage.

This control can also be used to compensate for a higher number of total tone lever settings (which would ordinarily result in higher volume) on one of the two manuals.

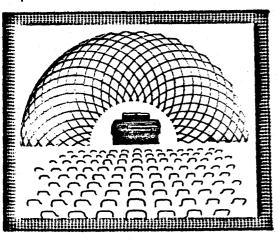
Brilliance:

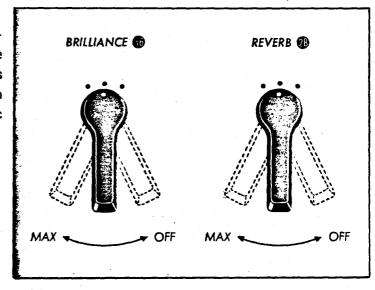
With this single, continuously-variable control you can pinpoint the degree of overall softness or clarity desired for any mood of music.



• Reverb: @

Reverberation is the quality that makes your playing sound full and rich, as if you were on the stage of a large hall or auditorium. This control is continuous, so that the reverberatory effect can be set to any degree of strength, as the music requires.





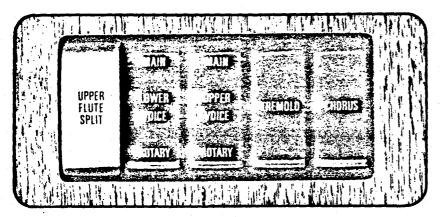
Glide (Located to the left of the lower manual and Expression Pedal):

Turning the Glide tablet "ON" and depressing any key, all notes will sound slightly lower (approx. 100 cents) than the true pitch when the foot switch on the expression pedal is pushed to the left with your toe on Expression Pedal. When the foot switch is released, the pitch will gradually return to normal. This effect is suggested to be used when playing Hawaiian music.

Sound-in-Motion Tremolo

The Electone's special throbbing tremolo is produced by a smaller-size Natural Sound speaker that really spins just behind the tremolo speaker grille on the side of the cabinet.

On the BK-20A there are four tremolo selectors, located on the right side of the lower manual, each with an on/off function. They are complemented by a continuous tremolo speed control knob just above them.





Upper Voice (Main/Rotary):

Lets you divert upper manual tones from the main to the tremolo speaker.

- Lower Voice (Main/Rotary):

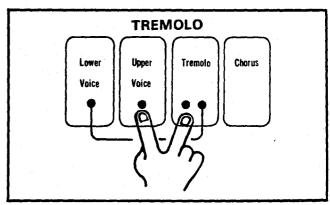
 Does the same for lower manual tones.
- Upper Flute Split :

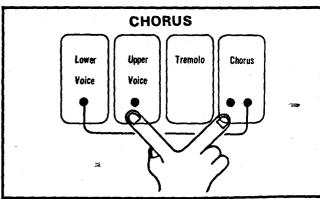
This tablet feeds only Flute tones of the upper manual and upper preset buttons 1, 2, 3 to the tremolo speakers. Combined with other upper manual tones through the main speaker it creates a rich, singing blend.

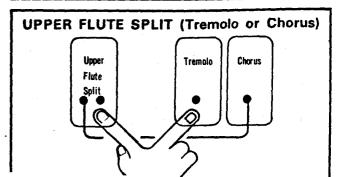
When the speed control is set to its central position, the Tremolo tablet will turn the speaker at seven revolutions per second. The Chorus tablet will turn it at one revolution per second.

Once either tablet is switched on, it takes several seconds for the tremolo speaker to attain the standard speed. This is also true when switching to a slower speed (Tremolo to Chorus). If one of the other tremolo control tablets is switched on during this speed change period, the speed variation will be heard in the music.

If you wish an instant tremolo or chorus sound, be sure to switch on that tablet well in advance of one of the speaker selectors. For special selections you can use this speed variation by switching the speaker

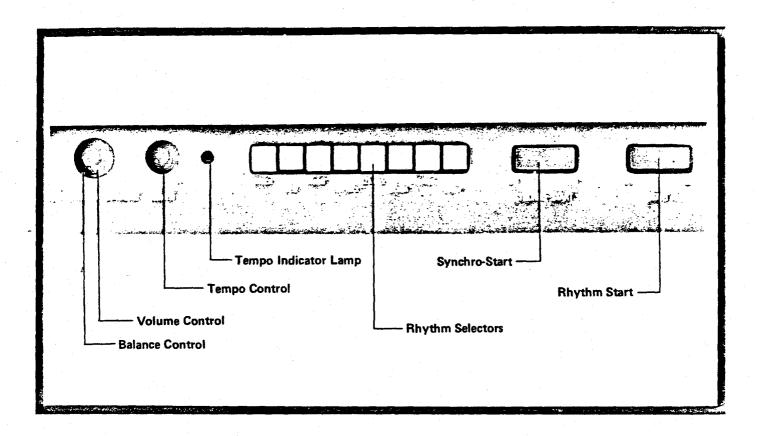






This section provides eight catchy rhythms, each one called forth by a simple button.

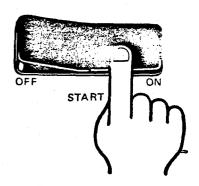
In addition to a combined volume and balance knob, tempo control and tempo indicator light, there are two other switches: ordinary Start and the exclusive Yamaha Synchro-Start which begins the rhythm accompaniment on the first beat of a measure when the first lower manual or pedal note is struck. A foot switch fitted on the expression pedal lets you cut and restart the rhythm at any point during play.



How to use the Auto Rhythm

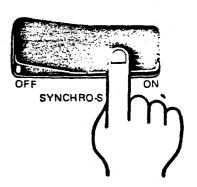
Rhythm Start

For instant rhythm at the beginning of a selection. Push the rhythm selector desired, get the beat set in your mind by watching the indicator lamp, when set Synchro-Start switch on and then turn the Start switch on.



Synchro-Start

Select the rhythm, switch on the Synchro-Start and begin to play once you have the beat established. The rhythm will begin as soon as you strike a lower manual or pedal note. This switch permits you to lead in with a rhythm-free melody at first if so desired.



Rhythm Stop (Foot Switch): ②

This switch is located in the expression pedal housing to the left of the pedal. Once the rhythm is on, push this switch once to instantly stop it, once again to restart. It lets you stop and restart the rhythm in the middle of a selection without using your hand.

Note:

After the foot switch has been used, be sure it is reset to normal after you finish playing your selection, and then make sure both Start and Synchro-Start switches are off. Otherwise you may turn on one of the switches in the middle of a new number only to find the rhythm still canceled.



FAST

Tempo Control

The tempo of the Auto Rhythm section can be adjusted by a continuous control knob. This is best accomplished by turning on the Synchro-Start switch. Although no sound will be produced, the indicator lamp will flash each quarter note letting you visually check the tempo while you adjust.

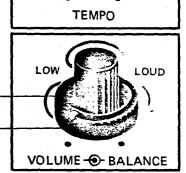


Use it to balance the volume of the rhythm section and the manuals.

This volume is then varied during the selection by the expression pedal, just like that of the other tones.

VOLUME CONTROL-

BALANCE CONTROL-



SLOW

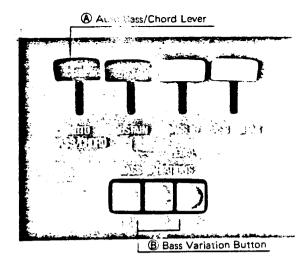
Balance Control

This control lets you balance the low rhythm sounds, such as drums, and the high sounds (i.e. cymbals) according to your mood and the selection. It can make a big difference even when using the same rhythm. Turn the knob to the right to accentuate the higher (treble) sounds, to the left for lower (bass). If you accentuate the treble sounds the rhythm becomes brighter and more cheerful. Check the playing hints for specific settings.





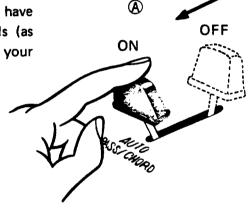
● Instructions for Operation of "Auto Bass/Chord" Your new Yamaha Electone, Model BK-20A, is equipped with a lever marked "Auto Bass/Chord" ♠. When used in conjunction with the "Automatic Rhythm" (see page 13). It enables you to play just about any combination of alternating bass-chord rhythms simply by sustaining (holding down constantly) a chord on the



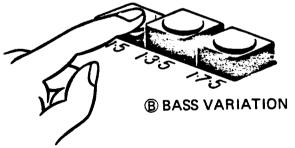
lower keyboard. From your very first, simple melody, you will be sounding like a pro. Here is all you have to do.

Move the Auto Bass/Chord

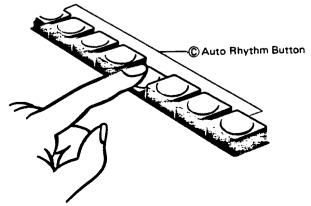
Move the "Auto Bass/Chord" lever toward you (A). You have now engaged the memory system and deactivated the pedals (as long as this lever is in the engaged position, you cannot play your BK-20A as a conventional organ).



Push the Bass variation button marked 1-5 right below the "Auto Bass/Chord" Button (B) .



Select one of the automatic rhythm patterns and push the corresponding button down until it clicks and stays down ©.



Immediately to the right of the rhythm button you will find two rocker type switches ① . Push the "on" side (right) of the one marked "Synchro-Start" (the one marked simply "start" is to be used when you wish to continue hearing the automatic rhythm even after releasing your chord on the lower keyboard). Now, be sure you have at least one stop for each: Upper Keyboard, Lower Keyboard, and Pedal. You are now ready to play.

Form one of the following type of chords on the lower manual with your left hand in any inversion:

Major

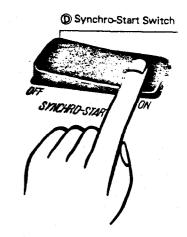
Seventh

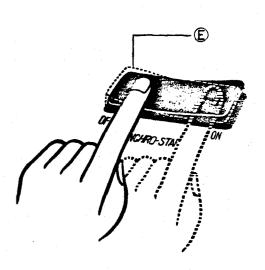
Minor

Minor Seventh

(These are the only chord types for which the memory unit can supply the proper bass note.) Play all the notes in the chord at the same time. The unit should now be working. Adjustments may be necessary to the "Tempo" and "Volume" knob to the left of the "Automatic Rhythm" unit (See page 14).

Adjustments may also be required to balance the relative volume of bass, chords, and solo (upper) keyboard; do this in the same way you would if playing conventionally. When the first chord is played, the unit will begin to operate on the downbeat, or first beat of the measure. When the chord is released you will not hear any more sound, but the unit is still operating within it's cycle. To start unit on a downbeat again, when beginning a new song, it is necessary to re-set the "Synchro-Start" switch (£).

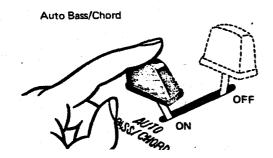


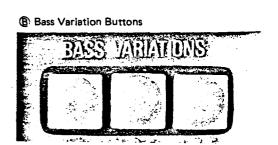


Bass Variation Buttons:

Just below the "Auto Bass/Chord" lever are three "Bass Variation Buttons" B, marked $1 \cdot 5$ (left) $1 \cdot 3 \cdot 5$ (center), and $1 \cdot 7 \cdot 5$ (right). The numbers under the buttons correspond to the notes on the musical scale in any given key and indicate what bass notes are available in the memory unit when a particular button is depressed. The type of chord and the automatic rhythm used will determine the actual note (and their sequence) that you hear.

There now follows a chart which indicates by scale step what bass notes will sound with each possible combination (Note: for the unit to perform correctly, at least one but not more than one button should be down in each section), "Bass Variation" "Automatic Rhythm".





Explanation: This is the basic pattern and alternates the root (1) and fifth (5) in the bass regardless of rhythm chosen for type of chord. The one exception is the "jazz rock" rhythm, which never plays anything but the root in the bass.

Bass Variation	Type of Chord	Rhythms Effected	Bass Notes Played
1.3.5	Major Minor Seventh Minor Seventh	Swing, Waltz, Bossanova Slow rock, Rhumba	1.5 1.3.5

Explanation: This selector effects only the Slow Rock, Rhumba rhythms with which it will play a root (1), third (3), fifth (5) pattern. All other rhythms function as with the (1.5) selector.

Bass Variation	Type of Chord	Rhythms Effected	Bass Notes Played
	Major	Swing, Waltz, Bossanova	1.5
	Minor	Slow Rock, Rhumba	1.3.5
1.7.5	Seventh	Swing, Waltz, Bossanova	1.5
	Minor Seventh	Slow Rock, Rhumba	1.7.5

Explanation:

This selector effects only the Slow Rock, Rhumba rhythm when a seventh or minor seventh chord is being played, with which you will hear the root (1), seventh (7), and fifth (5) bass rootes. When playing a major or minor chord the unit will perform exactly as it does with the second "Bass Variation" selector (1.3.5).

Remember, the Jazz Rock rhythm is not affected by the "Bass Variation" selector, it plays only the root (1).

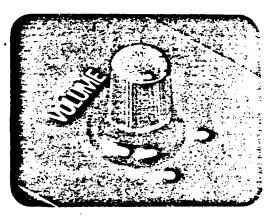


To Fully Enjoy Your Electone _

Other Controls

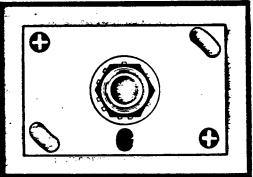
Master Volume:

Determine the maximum volume obtainable by depressing the expression pedal.



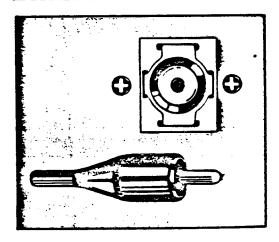
Headphone Jack

Plug a headphone set (optional accessory) into the jack under the keyboard and you can play with the volume as high as you like without disturbing anyone, even in the middle of the night.



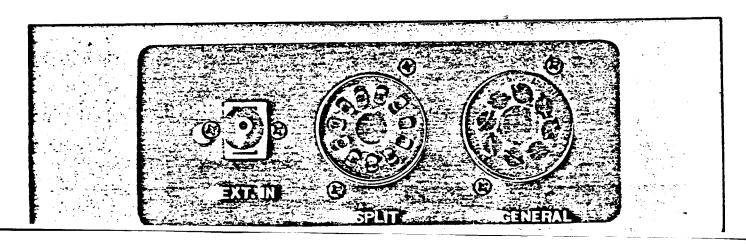
External Input Jack (EXT IN)

Can be used to feed any sound source through the Electone Natural Sound Speaker radio, record player or tape recorder. Since the volume of these sound sources is not affected by the expression pedal, you can play along on the Electone with any other performance.



Tone Cabinet Sockets

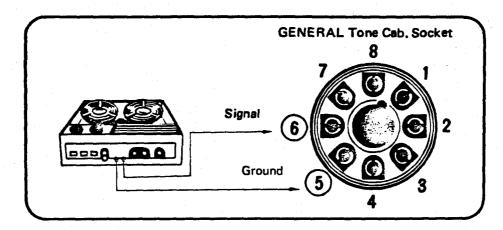
This socket is on the rear panel. Use it to connect a Yamaha Tone Cabinet, without any rewiring required. Yamaha Cabinet R-60B housing Yamaha Natural Sound Speakers, will give increased tonal power.



Record and Playback

You can record your Electone selections through the headphone jack then play them back via the Ext. In, jack (phone type plug required).

For recording your tape recorder must be equipped with a high impedance input jack, for the Electone headphone output signal is 5Vp-p (output resistance 390 Ω). When recording, it must be remembered that the signal to the Electone speaker will be cut off, so sound monitoring must be done via the tape recorder monitor system.



Note:

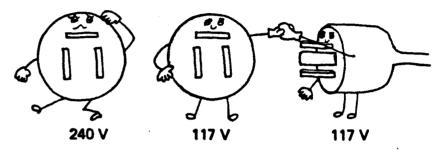
- 1. Connections between the EXT. IN jack and the output jack of a tape recorder should be made with shielded cable. Use a spare plug inserted in the EXT. IN jack.
- 2. Volume setting for playback will differ according to the tape recorder.
- 3. Adjust the volume of the Electone and the tape recorder to avoid distortion of the sound quality.
- 4. Make absolutely sure never to touch or otherwise interfere with the circuits or internal elements of the Electone.



Care of Your Electone.

In general you should treat your Electone with the same care you would give any fine musical instrument. However, the following points are suggested to assure optimum enjoyment.

Be sure to use your Electone only on the correct voltage.
 If any changes are required, please consult your Yamaha Electone service agent.



- If any trouble develops, contact your service agent.
 Never touch the circuits or the internal elements of the Electone yourself.
- 3. When you have finished playing, be sure to turn off the power switch.



- 4. In order to clean the keys, tabs, etc., use a damp cloth.

 Never apply organic solvents such as alcohol, for they will damage the materials.
- 5. Do not expose the Electone cabinet to the direct rays of the sun. This can bleach the finish and lead to separation along the joints. It is also best to choose a location free of humidity and currents of heated air.

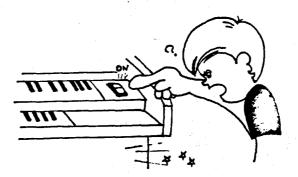


7. In opening and closing the fallboard, grasp the front lip with both hands and slide it gently in its groove. Never attempt to raise the fallboard directly upwards. Do not place heavy objects on it.

Do Not Be Alarmed If....

1. A note should sound the instant you turn on the switch.

This merely indicates normal operation consequent to a surge of electricity in the main amplifier.



2. Only one note is produced even when two pedals are depressed simultaneously.

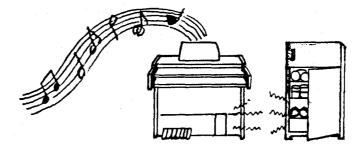
In order to achieve tonal clarity, the Electone is designed so that a note is electronically supressed the instant the next note is struck. If two pedals are struck simultaneously, only the higher one sounds.

3. Occasional unpleasant static occurs.

In the majority of such cases, the cause can be traced to the turning on or off of refrigerators, washing machines, electric pumps or other household appliances. Electrical fault in a neighboring outdoor neon sign may also be to blame.

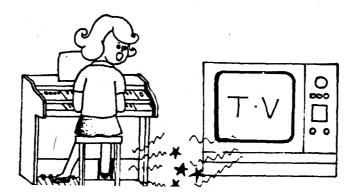
When the cause is a home appliance, connect the Electone to an outlet as far as possible away from the offending appliance. This phenomenon, although annoying, poses no danger to the Electone circuitry. If the cause is a fault in a neon or fluorescent lighting fixture, it should be repaired. When the cause is

unknown, or in case of doubt, contact your Yamaha dealer.



4. The Electone can at times reproduce radio or TV sound signals.

This can occur when there is a powerful radio or TV transmitter, or an amateur radio operator located in the vicinity. If the situation is distracting, contact your Yamaha dealer.



5. Sound rattling (sympathetic vibration) occurs.

All materials have critical resonance frequencies at which they vibrate. Since the Electone produces continuous tones, it is only normal that some will cause windows, shelves, etc. to rattle.

6. Pedal notes sound too high, and upper manual notes too low.

This feeling may be especially strong for players who switch from the piano, because of the difference in tonal construction. Each piano note is a combination of complicated harmonics, and can be heard only in its interaction with the surroundings. But Electone harmonics are only multiples of the integral (base) tone, and so the instrument cannot be tuned in the same way as a piano. The same is true of other organs, pipe and reed types.

7. Brilliance does not function with Flute sounds.

In order to reduce multiple harmonics in the high range, special resistors and condensers are used. They unfortunately limit the Brilliance effect for flute and wood sounds, as well as pedal tones. Brilliance really shines for strings, oboe and brass, where the harmonics are desired and therefore left untouched.

8. There is a bit of noise when the rotary speaker is switched on.

This too is a mechanical noise stemming from the spinning speaker. Special mountings help keep this sound at an absolute minimum.

Specifications ____

Jazz Rock

Rhythm Selectors

March

		·
■ KEYBOARDS		Swing Bossanova
Upper Manual	44 keys f~ c4	.Slow Rock Samba
OPPO	(3% octaves)	Rhythm Controls
Lower Manual	44 keys F ~ C3	Rhythm Start
	(3¾ octaves)	Synchro-Start
Pedals	13 keys C ₁ ~ C	Rhythm Stop (Foot control)
V 000.0	(1 octave)	Tempo
TONE LEVERS	••••••	Volume .
Upper Manual	Flute 16'	Tone Balance
OPPS:s.	Flute 8'	Tempo Indicator Lamp
	Flute 4'	AUTO ACCOMPANIMENT SECTION
	Flute 2¾'	Auto Bass/Chord Lever
	Trombone 16'	Bass Variation Selectors
	Brass 8'	1.5
	Oboe 8'	1.3.5
	String 8'	1.7.5
	String 4'	OTHER CONTROLS
Lower Manual	Flute 8'	Master Volume
1	Flute 4'	Expression Pedal
•	Horn 8'	Foot Effect Switch
	Cello 8'	Tremolo Speed Control
	Cello 4'	Power Switch
Pedals	Bass 16'	Pilot Lamp
	Bass Guitar	OTHER FITTINGS
UPPER PRESET	TONE SELECTORS	Headphone Jack
Combination 1 ~		External Input Jack
Accordion, Piano		Tone Cabinet Sockets (Gen., Split)
Hawaiian Guitar		Roll-top Fallboard with Lock
Cancel		Music Rest
EFFECT LEVER	S	Matching Bench with Music Storage
Vibrato		Space
Vibrato Speed		M NATURAL SOUND SPEAKERS
Percussive 4' (Up		Main: JA-5101 59 x 48cm
Percussive 2¾′ (Upper)	(23¼ × 14½")
Percussive Lengt		Rotary: JA-1701A 16 x 23cm
Attack Wah-Wah	(Upper)	(6½ × 9")
Repeat Speed (L	Jpper)	Electro-control 2-speed
Organ Preset Eng	semble (Upper)	■ CIRCUITRY
Lower Brush		Solid State (Incl. ICs and FETs)
Pedal Cymbal		Main Amplifier: OCL Dual-channel
Pedal Sustain		System (SMS)
EFFECT CONTR	ROLS	Total Output Power: 60 Watts (RMS)
Brilliance		Power Consumption: 120 Watts
Reverb		Power Source: 100/110/117/125/220/
Manual Balance	(Upper/Lower)	240V AC 50/60Hz
EFFECT SELEC	TOR	■ DIMENSIONS
Glide (Foot con		BK-20A BK-20AS
TREMOLO SEL		Width: 120cm (47") 122cm (48")
Upper Flute Spl		Depth: 56cm (22") 56cm (22")
Upper Voice (M		Height: 90cm (35½") 91cm (36")
Lower Voice (M	ain/Rotary)	WEIGHT
Tremolo		72kg (158 lbs.) 75kg (165 lbs.)
Chorus		FINISH BY 20A BY 201A: Noticel American
AUTO RHYTHM	A SECTION	BK-20A, BK-201A: Natural American

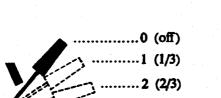
walnut, oil finish Antique oak, oil

finish

BK-20AS:







....3 (max.)



BK-20 REGISTRATION GUIDE

As the proud owner of a new YAMAHA BK-20, may we suggest a few registrations for starters so that you may exploit the versatility of this magnificent instrument immediately. The following suggested registrations are designed to provide you with just a few of the unlimited combinations available. Once you become familiar with these, feel free to experiment, on your own, for registrations best suited to your individual taste.

ALL SPECIAL EFFECTS are played on the 44 note UPPER manual unless specified. Suitable ACCOMPANIMENT registrations are included for the LOWER Manual.

All controls not shown in the registration SHOULD be in the OFF position.

For best results, always keep in mind the SOUND and RANGE of the effect you are re-creating.

ABC

with the exclusive Electone ABC (Automatic Bass Chord) Any Body Can play this DELUXE HOME SPINET from the very first day. 1. Select the rhythm — 2. Turn on the ABC selector — 3. Play your chord (in any inversion) with the left hand and your BK-20 automatically responds with rhythmic bass patterns and left hand chord accompaniment; all tied in with the Auto-Rhythm pattern of your choice.

NOTE: Because individual tastes differ, set the "BRILLIANCE" all the way on for all registrations then reduce the intensity of your own likeness.

POPULAR

Flute 8' (3) Flute 4' (1) Flute 4' (2) Flute 4' (1) Flute 4' (2) PEDAL: Cello 8' (2) UPPER: Cello 8' (2) Pedal Sustain (2) PEDAL: Flute 16 (3) Vibrato (1) PEDAL: Flute 16 (3) UPPER: Flute 16 (3) PEDAL: Flute 8' (3) PEDAL: PEFECT CONTROLS: Pedal Sustain (2) Flute 8' (3) PEDAL: PEFECT CONTROLS: PEFECT SWITCHES: PEDAL: PEDAL: PEDAL: PEDAL: PEDAL: PEFECT SWITCHES: Pedal Sustain (2) PEDAL: PEFECT SWITCHES: PEFECT S				·								
Flute 4' (1) PEDAL: Cello 8' (2) UPPER: Flute 16 (3) Vibrato (1) Pedal Sustain (2) Flute 16 (3) UPPER: Flute 16 (3) UPPER: Flute 16 (3) UPPER: Flute 16 (3) UPPER: Flute 16 (3) PEDAL: Flute 16 (4') PE	LOWER:			LOWER:			LOWER:			LOWER:		
Flute 4' (1) Flute 4' (2) Flute 4' (1) Flute 4' (2) PEDAL: Pedal Sustain (2) PEDAL: Bass (2) Pedal Sustain (2) Flute 16 (3) Vibrato (1) PEFECT CONTROLS: Brilliance	Flute		(3)	Flute	8'		Flute	8'	(3)	Flute		(3)
PEDAL: Pedal Sustain Pedal Sus	Flute	4'	(1)	Flute	4'	(2)	Flute	4'	(1)	Flute	4'	(2)
Pedal Sustain (2) PEDAL: Bass (2) Pedal Sustain (2) Flute 4' (3) UPPER: EFFECT CONTROLS: Bass 16 (3) PEDAL: Flute 16 (3) UPPER: EFFECT CONTROLS: Bass 16 (2) Flute 8' (3) Manual Balance 2. Reverb 3. Reverb 4. Manual Balance 3. Manu	PEDAL:		•	Cello	8'	(2)	UPPER:		• •	Cello	8'	(2)
Bass (2) Pedal Sustain (2) Flute 4' (3) UPPER: EFFECT CONTROLS: Bass 16 (3) PEDAL: Flute 16 (3 Brilliance Brilliance Brilliance Bass 16 (2) Flute 8' (3 Reverb Manual Balance EFFECT CONTROLS: Brass 8' (3 PRE-SETS: Reverb Brilliance Brilliance String 8' (2 Combination #2 PRE-SETS: Manual Balance Manual Balance Brilliance String 8' (2 Combination #3 Reverb Manual Balance PEDAL: PEDAL: EFFECT SWITCHES: Combination #3 Reverb Brass 8' (3 Manual Balance Brilliance String 8' (2 EFFECT SWITCHES: EFFECT SWITCHES: Bass 16 (3 Upper Voice Rotary Upper Voice Rotary Upper Voice Rotary Tremolo On Tremolo On Tremolo On Manual Balance Reverb FEFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary Up			(2)	PEDAL:			Flute	16	(3)	Vibrato		(1)
EFFECT CONTROLS: Brilliance Brill						(2)	Flute		(3)	UPPER:		***
Brilliance		ROLS.	(-/ _.			(3)	• • • • • • • • • • • • • • • • • • • •	•	\- /		16	(3)
Manual Balance . Brilliance . Bass 16 (2) Flute 4' (2) Reverb . Manual Balance . Brilliance . String 8' (3) PRE-SETS: Reverb Brilliance . String 8' (2) Combination #2 PRE-SETS: Manual Balance . PEDAL: EFFECT SWITCHES: Combination #3 Reverb Pedal Sustain (2) Lower Voice Rotary Lower Voice Rotary Lower Voice Rotary Upper Voice Rotary Tremolo On Tremolo On Tremolo On Tremolo On Tremolo On Tremolo On Rotary EFFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary Tremolo On Rotary EFFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary EFFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary EFFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotar								in	(2)	•		(3)
Reverb						.					<i>A'</i>	(2)
PRE-SETS: Combination #2 EFFECT SWITCHES: Lower Voice Rotary Tremolo On Upper Voice Rotary Tremo		,	•			•_					2,	(2)
Combination #2 PRE-SETS: EFFECT SWITCHES: Lower Voice Rotary Tremolo On Description #3 Lower Voice Rotary Tremolo On Description #3 EFFECT SWITCHES: Lower Voice Rotary Tremolo On Description #3 EFFECT SWITCHES: Lower Voice Rotary Tremolo On Manual Balance Reverb EFFECT SWITCHES: Upper Voice Rotary Tremolo On Manual Balance Bass 16 (3) EFFECT CONTROLS: Brilliance Reverb FFECT SWITCHES: Upper Voice Rotary Tremolo On Manual Balance FFECT SWITCHES: Upper Voice Rotary Tremolo On Lower Voice Rotary Tremolo On Lower Voice Rotary Tremolo On Namual Balance FFECT SWITCHES: Upper Flute Split On Lower Voice Rotary Tremolo On On Reverb FFECT SWITCHES: Upper Flute Split On Lower Voice Rotary The split on Lower Voice Ro		•	• † •		•,			•	LJ.	_		(3)
EFFECT SWITCHES: Lower Voice Rotary EFFECT SWITCHES: Upper Voice Rotary Lower Voice Rotary Tremolo On Upper Voice Rotary Tremolo On Tremolo On Tremolo On Hanual Balance EFFECT SWITCHES: Upper Voice Rotary Tremolo On Tremolo On Hanual Balance EFFECT SWITCHES: Upper Voice Rotary Tremolo On Hanual Balance EFFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary Upper Voice Rotary Upper Voice Rotary Upper Voice Rotary			4 2			• T •		_	•		•	(4)
Lower Voice Rotary EFFECT SWITCHES: EFFECT SWITCHES: Bass 16 (3 Upper Voice Rotary Lower Voice Rotary Lower Voice Rotary Upper Voice Rotary Tremolo On Tremolo On Tremolo On Manual Balance FFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary Upper Voice Rotary EFFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary Upper Voice Rotary EFFECT SWITCHES: Upper Voice Rotary Upper Voice Rotary Upper Voice Rotary EFFECT SWITCHES: Upper Voice Rotary U		CHEC.	#2			. 40		nce	·,· .		. •	(0)
Upper Voice Rotary Lower Voice Rotary Lower Voice Rotary EFFECT CONTROLS: Tremolo On Upper Voice Rotary Upper Voice Rotary Brilliance Tremolo On Tremolo On Manual Balance Reverb EFFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary						. •						
Tremolo On Upper Voice Rotary Upper Voice Rotary Brilliance Tremolo On Tremolo On Manual Balance Reverb EFFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary			•							_		(3)
Tremolo On Tremolo On Manual Balance		_	агу .		_	. •			_		ONTROL	.S :
Reverb	Tremolo	On.									• •	
EFFECT SWITCHES: Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary				Tremolo	C)n	Tremolo		On	Manual Bal	ance 🦳 .	
Upper Flute Split Or Lower Voice Rotary Upper Voice Rotary										Reverb		^ •∱•
Lower Voice Rotary Upper Voice Rotary										EFFECT S	WITCHES	:
Lower Voice Rotary Upper Voice Rotary										Upper Flute	a Split	On
Upper Voice Rotary												
											_	
Transition Cit												
										TIOMOTO .	•	-

MODERN ROCK JAZZ

LOWER:			LOWER:			LOWER:			LOWER:		
Horn	8'	(3)	Flute	8'	(3)	Flute	8'	(3)	Flute	8'	(3)
PEDAL:			Flute	4'	(1)	Flute	4'	(1)	Flute	41	(2)
Pedal Sustain		(1)	Cello	8'	(1)	Perc. Lngth	4'	(3)	Perc. Length	2-2/3	(2)
Bass	16	(2)	Perc. Length	2-2/3	(3)	UPPER:			UPPER:	, _	\ -1
EFFECT CONT	ROL	S: .	UPPER:			Flute	16	(3)	Flute	16	(3)
Brilliance	•,•		Flute	16	(3)	PEDAL:			Flute	8'	(3)
Manual Balance		*	Flute	4'	(3)	Pedal Sustain		(1)	Flute	4'	(3)
Reverb	•	″ • ••	PEDAL:			Bass	16	(2)	PEDAL:		Υ-,
EFFECT SWITC	HES		Pedal Sustain		(1)	EFFECT CON	TROL		Pedal Sustain		(2)
Lower Voice		Rotary	Bass	16	(3)	Brilliance	•••		Bass	16	(3)
Upper Voice		Aain	EFFECT CON	ITROLS:		Manual Balanc	· · ·	•.	EFFECT CON	TROLS:	
Tremolo	(On .	Brilliance	• •		Reverb		A	Brillionce	•••	-
			Manual Balane			EFFECT SWIT	CHES		Manual Balanc	•,.	
			Reverb		• • •	Lower Voice		Rotory	Reverb	,	• • •
			EFFECT SWI	TCHES:	•	Upper Voice		Main '	EFFECT SWIT	CHES:	•
			Lower Voice	Ro	tary	Tremolo		On	Lower Voice		otary
			Upper Voice	Mo	in .				Upper Voice		ain
			Tremolo	O	ח				Tremolo	Or	

"CLASSICAL-SACRED"

LOWER:			LOWER:			LOWER:			LOWER:	
Flute	8'	(3)	Flute	8'	(2)	Horn	8'	(3)	Flute 4	• (2)
Flute	4'	(2)	Flute	4'	(1)	Cello	8'	(3)		
UPPER:		- •	Cello	8'	(3)	UPPER:		• •	Horn 8 Cello 8	' (2)
Flute	16	(3)	UPPER:			Flute	4'	(3)	PEDAL:	• •
Flute	8,	(3)	Flute	4'	(3)	Trombone	16	(3)	Pedal Sustain	(2)
Flute	4'	(3)	Brass	8'	(3)	Brass	8,	(3)	Boss 1	6 (3)
PEDAL:			Obo e	8'	(3)	PEDAL:			EFFECT CONTR	
Pedal Susta	in	(2)	PEDAL:			Pedal Sustair	1	(2)	D (11)	**
Bass	16	(2)	Pedal Sustain		(2)	Bass	16	(3)	Manual Balance	"
EFFECT C	ONTROL	S:	Bass	16	(3)	EFFECT CO	NTROL:		Reverb	" • ^ •
Brilliance	• •		EFFECT CON	TROLS		Brilliance	•••		PRE-SETS:	
Manual Bald	ance " .		Brillionce	• •		Manual Balan	ice 🤊 .j	•	Combination	#3
Reverb		<i>"</i>	Manual Balanc		* *	Reverb		' • • •	EFFECT SWITC	HES:
EFFECT SI	WITCHES	:	Reverb		• 🛉 •	EFFECT SWI	TCHES	•	Lower Voice	Rotary
Lower Voic		Rotary	EFFECT SWIT	CHES:		Lower Voice	F	Rotary	Upper Voice	Rotary
Upper Voice	• 1	Rotary	Upper Flute S	olit (On .	Upper Vaice		Rotary	Chorus	On .
Chorus		On	Lower Voice	1	Rotary	Chorus	. (On .		
			Upper Voice		Rotary					
			Tremolo	(On					

"SPECIALTYS & NOWELTYS"

MANDOLIN AND ORGAN	HARPSICHORD	THEA. ENSEMBLE	ACCORDION
LOWER:	LOWER:	LOWER:	LOWER:
Flute 8' (2)	Flute 8' (2)	Flute 8' (3)	Horn 8' (2)
Flute 4' (1)	Flute 4' (1)	Horn 8' (3)	Cello 8' (1)
Horn 8' (1)	UPPER:	Cello 4' (2)	PEDAL:
UPPER:	Oboe 8' (1)	Vibrato (1)	Pedal Sustain (2)
Flute 8' (1)	String 8' (3)	UPPER:	Boss 16 (2)
Flute 4' (3) Flute 1-2/3 (2)	String 4' (2) PEDAL:	Flute 16 (3) Flute 8' (3)	EFFECT CONTROLS:
Flute 1-2/3 (2) String 8' (3)	Pedal Sustain (2)	Flute 8' (3) Flute 4' (3)	Brilliance
String 6 (3)	Bass 16 (3)	Trombone 16 (3)	Reverb
Repeat Speed (2)	Bass Guitar (1)	Brass 8' (2)	PRE-SETS:
PEDAL:	EFFECT CONTROLS:	Oboe 8' (3)	Accordion On
Pedal Sustain (2)	Brilliance	String 8' (2)	EFFECT SWITCHES:
Boss 16 (3)	Manual Balance "	PEDAL:	Lower Voice Rotary
EFFECT CONTROLS:	Reverb **.	Pedal Sustain (2)	Upper Voice Main
Brilliance	EFFECT SWITCHES:	Bass 16 (3)	-
Manual Balance	Upper Flute Split On	EFFECT CONTROLS:	
Reverb	Lower Voice Rotary	Brilliance	
EFFECT SWITCHES:	Upper Voice Main	Manual Balance	
Flute Split On	Tremolo On	Reverb	
Lower Voice Rotary Upper Voice Rotary		EFFECT SWITCHES: Flute Split On	
Tremolo On		Lower Voice Rotary	
Tremore on		Upper Voice Rotary	
		Tremolo On	
PIANO	HAWAIIAN GUITAR	BANJO	WAH WAH TRUMPET
LOWER:	LOWER:	LOWER:	LOWER:
Flute 8' (1)	Flute 8' (1)	Flute 8' (2)	Flute 8' (3)
PEDAL:	Vibrato (2)	Flute 4' (1)	Flute 4' (2)
Pedal Sustain (2)	PEDAL:	UPPER:	UPPER:
Bass 16 (1)	Pedal Sustain (2)	Repeat Speed (2)	Brass 8' (3)
EFFECT CONTROLS:	Bass 16 (1)	PEDAL:	PEDAL:
Brilliance	FOOT SELECT	Pedal Sustain (2)	Pedal Sustain (2)
Manual Balance	Glide On EFFECT CONTROLS:	Bass 16 (2) EFFECT CONTROLS:	Bass (3) Bass Guitar (1)
PRE-SETS:	Brilliance	Brilliance	Bass Guitar (1) EFFECT CONTROLS:
Piano On	Manual Balance	Manual Balance	Brilliance
EFFECT SWITCHES:	Reverb	Reverb	Mutual Balance
Lower Voice Rotary	PRE-SETS:	PRE-SETS:	Reverb
Upper Voice Main	Hawaiian Guitar On	Banjo On	EFFECT SWITCHES:
Tremolo On	EFFECT SWITCHES:	EFFECT SWITCHES:	Lower Voice Rotary
	Lower Voice Rotary	Lower Voice Rotary	Upper Voice Main
	Upper Voice Main	Upper Voice Main	Tremolo On
	Tremolo On	Tremolo On	
SLIDE TROMBONE	MARIMBA/VIBS	CHIMES	FULL FLUTE'S
LOWER:	LOWER:	LOWER:	. OWED.
Flute 8' (3)	Flute 8' (3)	Flute 8' (3)	Flute 8' (3)
Cello 4' (1)	Flute 4' (1)	Flute 4' (1)	Flute 4' (2)
Víbrato (1)	Cello 8' (2)	Percussive Length (3)	Cello 8' (2)
UPPER:	UPPER:	Perc. Lngth 4' (3)	Vibrato (2)
	= : = :::		Vibrato Speed (2)
	Flute 8' (2)	Perc. Lingth 2-2/3 (2)	
Trombone 16 (3) PEDAL:	Flute 8' (2) Flute 4' (3)	Perc. Lngth 2-2/3 (2) UPPER:	UPPER:
Trombone 16 (3) PEDAL: Pedal Sustain (2)	Flute 4' (3) Repeat Speed (2)	UPPER: Flute 8' (1)	UPPER:
Trombone 16 (3) PEDAL: Pedal Sustain (2) Brass 16 (3)	Flute 4' (3) Repeat Speed (2) PEDAL:	UPPER: Flute 8' (1) Brass 8' (1)	UPPER: Flute 16 (3) Flute 8' (2)
Trombone 16 (3) PEDAL: Pedal Sustain (2)	Flute 4' (3) Repeat Speed (2)	UPPER: Flute 8' (1)	UPPER: Flute 16 (3)

Bass

Brilliance

Reverb

Manual Balance

Lower Voice

Upper Voice

Tremolo

16

On

Rotary

Main

On

EFFECT CONTROLS:

EFFECT SWITCHES: Upper Flute Split PEDAL:

Bass

Reverb

Pedal Sustain

Manual Balance

Brilliance

Lower Voice

Upper Voice

Tremolo

EFFECT CONTROLS:

EFFECT SWITCHES:

Rotary

Rotary

On

EFFECT CONTROLS:

EFFECT SWITCHES:

Rotary

Main

On

Brilliance

Lower Voice

Upper Voice

Reverb

Tremolo

Manual Balance

EFFECT CONTROLS:

EFFECT SWITCHES:

Rotary

Main

On

Brilliance ...

Manual Balance

Lower Voice

Upper Voice

Tremolo