

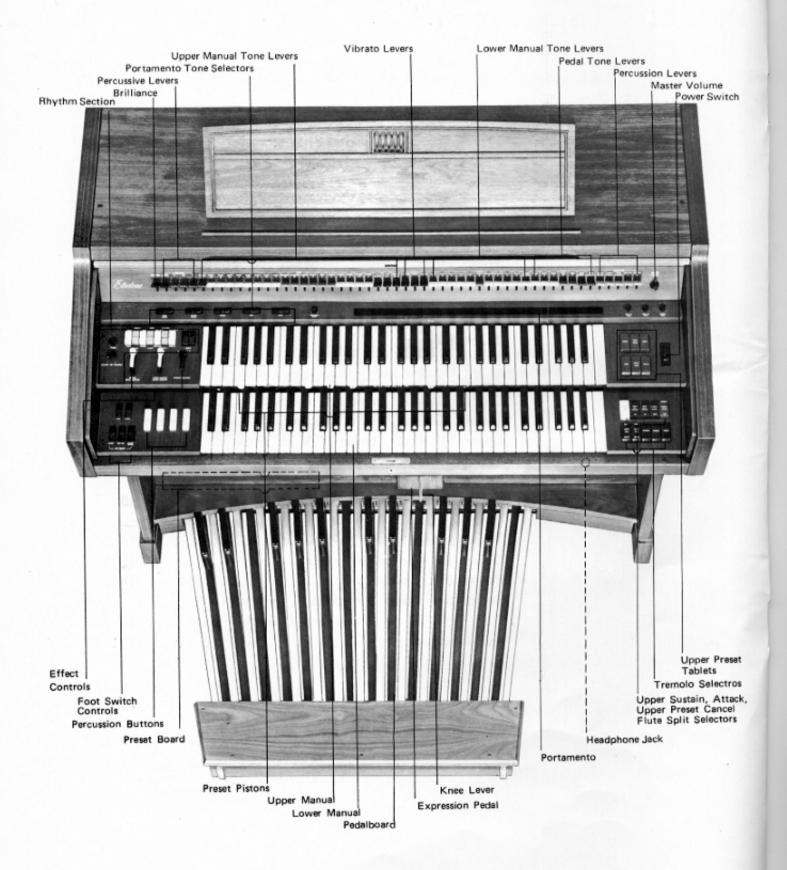
Congratulations upon your selection of this exciting musical instrument. Whether you are a beginner or master of organ techniques, you now have command of a wide array of expressive possibilities.

Please read this manual thoroughly to be sure you are familiar with every feature, and with all the many ways you can use each one. With proper care and a little time together you and your Electone can become lifelong partners in musical creativity.

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# Main Sections and Controls



### The Tone Levers

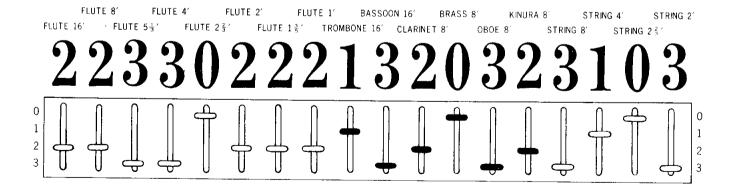
Each of these levers imparts its particular voice to the notes played on the manual. There are two ways to set each lever. If you are a beginner or just learning a new registration, use the click-stop positions shown in the illustration. By noting down or remembering the positions for each lever in a particular combination, that registration can be exactly duplicated at any time without guesswork. The numbers corresponding to the tone lever click-stop settings are used in all Yamaha notation and registration suggestions.

As you gain self-assurance and mastery of the Electone registrations, the click-stops may prove to be a limitation. In that case, simply ignore them. Each lever is continuously variable from off to full, so you can blend in any tone precisely as strong as you want it.

Remember that each tone lever is in fact a volume control for that voice, so the more fully you combine voices for a manual, the louder that manual's overall volume becomes. This can be compensated for with the Manual Balance control.

#### What's a 'Foot'?

Tone lever voices come in several types: 16', 8',  $5^{1}/_{3}'$ , 4',  $2^{2}/_{3}'$ , 2',  $1^{3}/_{5}'$  and 1'. These foot marks indicate the relative pitch; they at one time referred to the length of the pipe in a pipe organ, with longer pipes producing lower tones. The 8' voice is a "fundamental," which means that it creates a tone when a key is pressed the same as that produced when the same key on a piano is played — in other words, it corresponds to the written note. A 16' tone is exactly one octave lower, 4' one octave higher than 8', 2' still another octave higher and 1' an octave above that. The other harmonics are not octaves. These various harmonics can be combined for extra tonal richness.

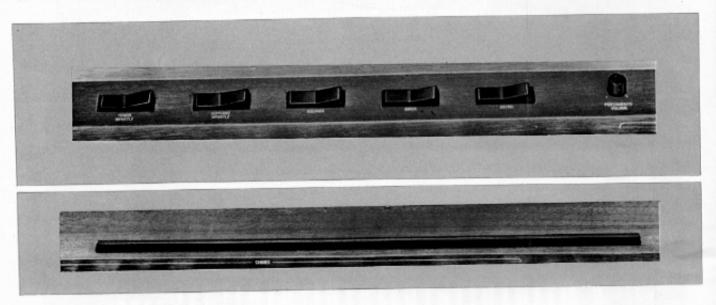


### **Portamento**

The Portamento strip produces a continuously pitch-shifted sound just like the one created by a finger sliding on a violin string. There are five different portamento voices, all preset combinations. Precedence among the portamento voice selector tablets is to the right; if two or more are set on, the one(s) to the left are cancelled, except for Tenor and Soprano Whistles which will play together.

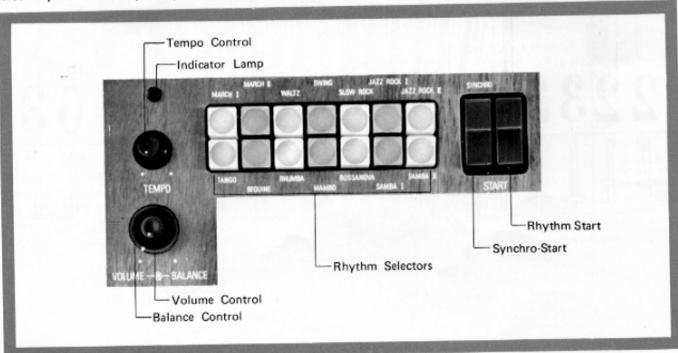
This section has its own volume control, continuously adjustable so that the portamento volume can be perfectly balanced with the other sections.

Do not forget that the portamento strip can be played by sliding your finger up and down, and also one note at a time by tapping with the fingertip at the appropriate places.



# **Auto Rhythm Section**

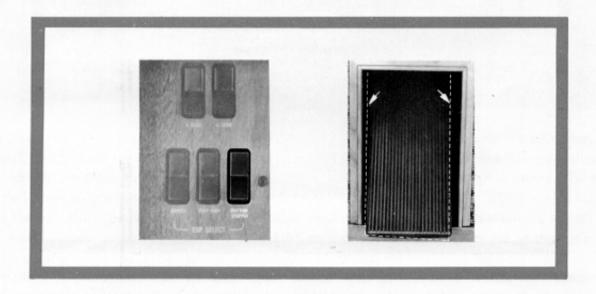
This section has 14 different rhythm accompaniments, each with its own selector button. There are also rhythm Volume, Tempo and Tone Balance controls, a tempo indicator lamp and two start switches.



To use the rhythm section, first push the desired selector button (or buttons – you can combine rhythms). Then switch on normal Start. The rhythm will begin and you can adjust the tempo, volume and tone balance. Now switch the Start button back off and you are ready. If the Start button is switched on, the rhythm will begin immediately. You can also leave it off and switch on Synchro-Start instead. This will automatically begin the rhythm the instant a lower manual note or a pedal note is played, letting you lead in with a melody or introductory notes on the upper manual first.

# Rhythm Stop

Switch the Rhythm Stop tablet on. The expression pedal, can be moved from side to side to switch on and off it's tablet-controlled effects. Move to the left once to stop the rhythm instantly at any time without using your hands; move to the left once again to restart. This switch functions only when the rhythm section is operating.



Note: When a rhythm is playing the tempo indicator lamp will flash the first beat of every measure.

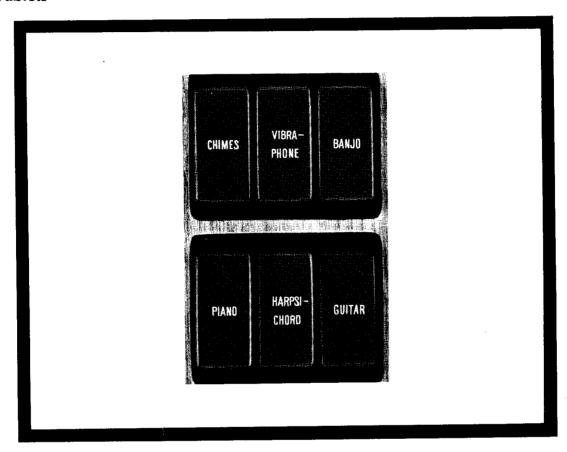
When the Synchro-Start switch is on and a rhythm set, but the section is not operating because

- no lower manual or pedal note has been played,
  - or
- it has been stopped by the foot switch,
   the lamp will flash every quarter note.

### **Preset Tones**

There are two series of on/off preset combination selectors: upper manual preset tablets and preset pistons which work with the pull-out drawer.

#### **Preset Tablets**



Precedence is to the right and down for these tablets. In other words, Banjo takes precedence over Vibraphone and Piano over Banjo, while the Guitar will cancel any other tablet set. In addition, any tablet will also automatically cancel all individual voice levers for the upper manual. This unusual feature lets you switch back and forth between panel setting and preset combination at the flick of a single lever.

## **Upper Preset Cancel (Knee lever)**

To switch back and forth between a piston and any upper manual setting, first press the U.Preset Cancel tablet. This brings the knee lever into play. When the knee lever is then pressed, the upper manual panel setting (individual voices or preset tablet) will play; when the knee lever is released, the piston setting will play.

#### **Preset Pistons**



The piston combinations are set by the voice preset board. Each piston corresponds to a set of miniature tone levers on the board. Pistons (1) and (2) are upper manual voices only, (3) is a full manual set and (4) is a special combination preset at the factory. The black (C) piston cancels the others. To switch from one piston to another it is not necessary to use the (C) piston.

Each of the miniature levers is continuously variable, duplicating this unique characteristic found in the console levers. These levers also have the same click-stop positions and are arranged in the same order for quick setting. The voice names are abbreviated (FL=Flute, etc.).

The pistons take precedence over all other upper manual settings — in other words, they cancel both individual voice levers and the preset levers. When a piston combination is on, that piston's built-in lamp will light.

#### Pedal Solo Piston

This piston frees the pedals from the other manuals so that it becomes an independent section of the organ, with its own volume adjustment knob. This lets you accentuate the bass tones for pedal solo, etc.

### **Percussive**

Changing the beginning of some or all notes can do wonders for lively selections. The three percussive levers will each add a special accent to all upper manual tones. Each is also continuously variable, so you can match the percussive effect to any selection. Use the Length lever to control the time of decay for this effect.

Percussive adds a very modern touch, and is ideal for jazz and rock music.

Note: The 4' Percussive lever will not function when the Sustain tablet is on.

## Attack 11/3'

This effect gives you greater definition to the beginning of notes played imparting new clarity and vigor to jazz and other lively pieces. Please note that this effect can only be used for the upper manual tones; the pitch is two octaves and a fifth above the fundamental.

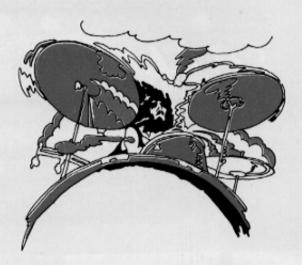
# Upper Vibrato, Lower Vibrato

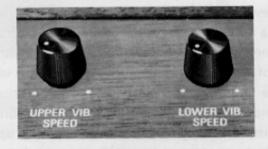
Use these two continuously variable levers to achieve an automatic vibrato on upper or lower manuals, or both, perfectly tailored to your selection. Each Vibrato lever controls the effect's intensity, and there is also a special knob for each, controlling its speed.



### Touch Vibrato

This world-famous Yamaha exclusive gives the organist the same fingertip expression enjoyed by violinists. Switch on the lever and move your finger laterally on the key; the Electone will respond with a vibrato that translates your emotion into sound.







# **Expression Pedal**

Push down the pedal to control the volume of each note or phrase. This pedal is extremely important for adding emotion to your playing. The pedal is balanced to stay in any position once set. Rest the entire right foot on the pedal and relax it, pressing with the toe to increase volume, with the heel to decrease it. The overall volume — that is, the range in which the expression pedal works — should be set with the Master Volume control.

# **Expression Pedal Switch** and Tablets

The expression pedal, in addition to moving up and down to control the Electone's overall volume, can also be moved from side to side to switch on and off five different tablet-controlled effects.

One of these, Rhythm Stop, has been discussed in the Auto Rhythm section, and for this effect the switch works on a click-on, click-off basis. For the Glides and Damper, the switch works on a click-on/release-off basis; its effect lasts only as long as the pedal is swiveled to the left.

To fully activate the Wah-Wah, the pedal must be swiveled from far left to far right.

#### Glide

With either of these tablets set the pitch of any note on that manual will drop approximately one half tone when the foot switch is swiveled left, rising to its true pitch as soon as the switch is released.

Glide also cancels the vibrato effect at the same time that it lowers the pitch.

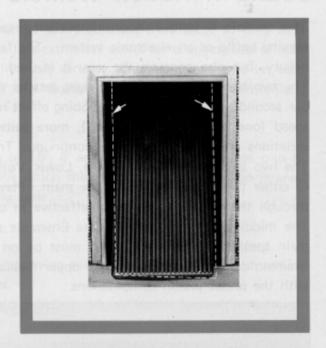
#### Damper

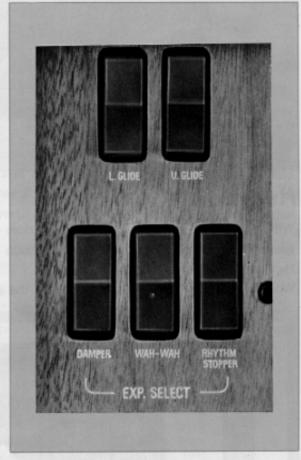
This effect functions like the piano damper mechanism to sustain all notes for these five upper manual preset voices:

Piano, Harpsichord, Guitar, Vibraphone, Chimes

#### Wah-Wah

With this tablet on, each time the foot switch is swiveled, it makes the upper manual tones sound like a trumpeter had just closed and opened his mute.





### Sound-in-Motion Tremolo

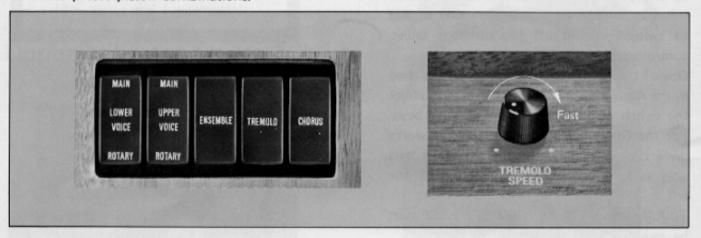
This tremolo is unique in one important respect: it is produced by a rotating speaker, not simply a moving baffle or an electronic system. The fact that the speaker rotates not only explains its realistic beauty, but also controls the way it is used.

The two tremolo tablets on the right set the rotating speed. Tremolo is faster (approx. six revolutions per second), and adds a rich throbbing effect reminiscent of a mighty theater organ. Chorus is a slower speed (one revolution per second), more suited to stately or liturgical numbers. More subtle speed variations are possible with the continuous Tremolo Speed control knob.

The two left tablets (Upper Voice, Lower Voice) feed the upper manual, lower manual or both signals to either the rotary speaker or the main. Playing one manual through the main speaker and the other through the rotary is extremely effective in changing the emotional color of your renditions.

The middle tablet switches on the Ensemble system, which plays each note through both rotary and main speakers. The voice tablet must be on "Rotary" for the ensemble tablet to work.

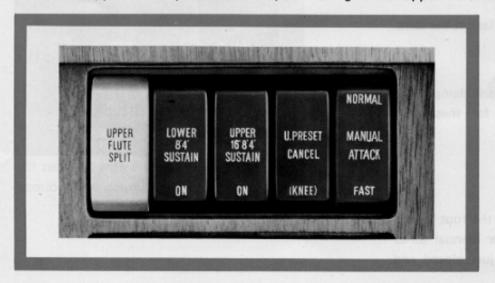
Tremolo cannot be used with the upper manual preset tablet voices (Piano, etc.), but it will function with the preset piston combinations.



# Flute Split

With this tablet switched on all flute voices coming from the upper manual are fed through the rotary speaker, while all others are heard through the main speaker. The result adds that special theatrical feeling via a special tremolo effect.

When the Upper Flute Split tablet is on, the setting of the Upper Voice tremolo selector will be canceled.



Note:

The Tremolo and Chorus tablets switch the tremolo speaker mechanism on and off. If both these tablets are off, the speaker will not rotate, and no tremolo will be produced even though one or more of the other three tablets is feeding signals through this speaker.

### **Sustain**

Pedal Sustain is continuously variable and this effect can be easily adjusted from short to long with the special control located to the left of the upper manual. It is extremely useful for changing bass effects. The manual Sustain controls offer the same type of continuously variable adjustment, but once set, each can then be instantly switched on or off via the Upper 16' 8' 4' Sustain and Lower 8' 4' Sustain tablets.

### Manual Attack

This effect provides changing definition to the beginning of 16', 8' and 4' upper manual voices, plus 8' and 4' lower manual voices. It determines the speed with which these voices speak — i.e., the interval between the time the key is depressed and the resulting tone.

### **Percussion**

As their names imply, three of these levers provide accompanying sounds to each note — brush and/or cymbal for lower manual notes, cymbal for pedal tones.

In addition, the two Button levers determine the sounds which will be produced by the four white buttons. The percussion levers, as all other effect levers, are continuously variable.

# **Couplers**

The coupler levers have an extremely important influence upon the Overall tonal versatility of the E-5AR. Because of their function, they are on/off only, not continuous.

#### Upper to Upper 16'. 4'. 2'

When this coupler is used with 16', 8' and 4' upper manual voices it adds three consonant harmonics to each voice (16', 4' and 2' harmonics to 8' voices, 8', 2' and 1' harmonics to 4' voices and 32', 8' and 4' harmonics to 16' voices). For example, added to Clarinet 8' it provides Clarinet 16', Clarinet 4' and Clarinet 2', none of which are available through the tone levers. In this way the lever serves to expand the E-5AR's range of complex tonal possibilities.

#### Lower 8'. 4' to Upper

With this lever on, all 8' and 4' lower manual voices which are set on will be produced with any upper manual key. This lets you create a deep cathedral effect, especially when used with lower manual Vibrato. Note: The String Celeste will not couple up to the upper manual as it is already borrowed from the upper manual generator.

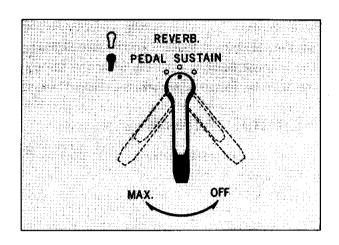
### Reverb

This continuous control lets you add a fullness to your playing much like the acoustics of a concert hall. Use Reverb to compensate for a "dead" room with dull acoustics (due to furniture, rugs, drapes, etc.).

# **Brilliance**

This continuously variable lever changes the overall mood of both manuals, making them quiet and sombre or providing brighter, richer tonal effects. For example, it affects string voices in the same way as a violinist would brighten his tone by adding more rosin to his bow.

Brilliance affects only upper and lower manuals.



BRILLIANCE



# Roll-Top Fallboard

When the organ is not in use the keys can be protected against dust and damage by rolling down the fallboard. Pull the fallboard by its front edge so that it rolls in the side tracks; do not attempt to lift up. Open it in the same way — by sliding it in the tracks. The fallboard can be locked if necessary. The fallboard is also coupled to the power switch. When the fallboard is closed the power is automatically shut off, regardless of the switch position.

### **Power Switch**

Incorporates a built-in lamp which lights whenever the switch is on and power is flowing. Make it a practice to turn this switch off whenever you leave the Electone.

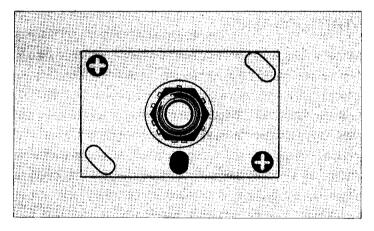
# Headphone Jack

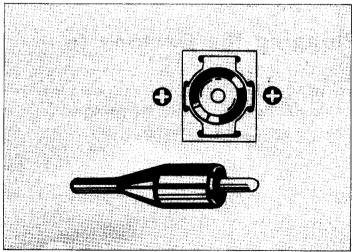
An optionally available Yamaha headphone set can be plugged into this jack. With the headphones connected, the speakers are automatically shut off, allowing you to play or practice at any volume level without disturbing anyone else in the house.

# Ext. In Jack

This small jack is located on the rear of the Electone. You can connect a tape recorder, record player or radio to it and then play through the Electone amplifier and speaker. When connecting other equipment, however, be sure to match impedances; the Ext. In jack has an impedance of 30 Kohms.

Signals entering through the Ext. In jack are not regulated by the expression pedal, so you can play along with recorded or broadcast music in this way. If you have a recording of yourself on the Electone, you can play it back in this way and form a one-man duet.





### **Electone Care**

The organ console and bench are manufactured using select woods, naturally and kiln dried for absolute warp-free dependability. Treat the finish as you would that of any other fine piece of furniture. Keep it free of dust and moisture, and polish with high quality firniture polish (avoid preparations containing silicone). Always dust thoroughly (although lightly) before polishing, so that accumulated dust is not ground into the finish.

Dampness or water has an adverse affect on wood. Never wipe the finish with a cloth dampened in water. Be careful not to let any water spill on the finish.

The expression pedal, pedalboard keys, manual keys, levers, tablets and buttons, on the other hand, are made of special materials which resist dampness, and they can therefore be cleaned with a soft, damp cloth.

# Moving the Electone

Two hand holes are provided on the back of the Electone for easier handling. The unit should slide easily on its built-in casters. If the set is to be moved to a different building, for example, when you move your residence, check with your local Electone dealer concerning necessary precautions.

### **Maintenance**

Yamaha Electone dealers are available for help and servicing almost everywhere in the world. These dealers are part of a thorough network of service and education, and they receive complete technical information and parts from the Yamaha factory. They are also assisted by graduates of the Yamaha Factory Training Schools, men who know every aspect of every Electone.

That is why you should always consult a Yamaha Electone dealer if you have any questions or need service. Only Yamaha representatives are capable fo providing this service.

Under no circumstances should you open the cover or attempt to test or repair the Electone yourself. While its sophisticated integrated circuitry will provide the highest standards of durable, trouble-free performance when properly cared for, it can also be seriously damaged by improper checking or maintenance procedures.

# Plugging the Electone In

Your Electone is set to operate on local current, and is ready to play as soon as the plug is inserted into an AC consent. If you have any reason to believe the power regulation is improper, or if you move to a locale where you believe the power supply is different, check with your local Yamaha Electone dealer to avoid possible damage.

# Do not Be Alarmed If...

the Electone does not operate when the power switch is turned on, check the following:

- 1. Is the plug fully inserted into an AC outlet (the same as you use for a lamp, etc.)? Reinsert it to be sure.
- Is there power coming from that outlet? Unplug the Electone and plug in a lamp; then see if the lamp will light. If it does not, the problem is probably in your home's electrical system. Check your fuses or circuit breakers.
- If you find that there is power in the outlet, but the Electone does not play, unplug the cord and call your nearest Yamaha dealer. There are NO USER-SERVICEABLE PARTS in the Electone.

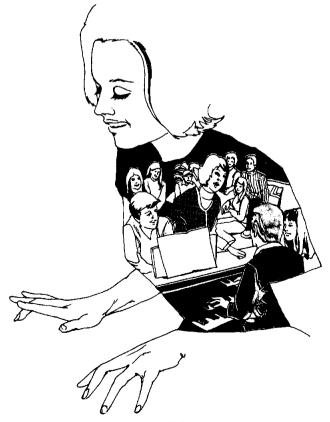
# Playing the Electone

First turn on the power switch. No warm-up period is required. You can tell that the power is on because the pilot lamp will light; the Electone is so quiet that this lamp will be the only way you can check whether the Electone is on when you are not playing.

Next, set up a registration (set all the levers and controls you wish to use for the upper and lower manuals and the pedals). Select tone combinations according to suggestions in the music you are going to play, or experiment with your own combinations. Remember that the registration noted on any sheet of music is no more than a suggestion, and your idea may well be even more suitable.

By the same token, do not be alarmed if you have a piece of music with no registration for your organ. With a bit of imagination you can approximate the registration for a different organ, going on to improvise on your own. This will be an ever-new source of creative enjoyment as you become more and more familiar with the various Electone controls and effects.

Many new song collections now have Electone registrations. See your Yamaha dealers.



# **Registration Guide**

Now that you are the owner of a new Yamaha E-5AR, you will probably want some ideas for exploiting the versatility of this magnificent instrument. The E-5AR was designed to be the most flexible home organ ever offered to the public. The concept we had in mind was to provide the basis for any of the many different types of organ sounds and musical moods, from classical, theater and orchestral tones to special effects and professional, commercial sounds.

All of this is now at your fingertips. The purpose of the following pages is to give you just a few of the possible combinations, some of the more interesting ones we have discovered. We have tried to be representative of all tastes. Experiment on your own to find the sounds that you like best, for that is a significant part of the fun in owning such a diversified instrument.

The registrations are divided into four sections:

- I. SOUND EFFECTS (A partial listing and explanation of some of many sound effects the E-5AR is capable of.)
- II. GENERAL COMBINATIONS (General set-ups for all the various styles of straight organ playing.)
- III. SOLO SOUNDS (Various solo voices . . . orchestral and organ.)
- IV. SPECIAL EFFECTS

In the upper, right hand corner of the console, directly above the power switch, you will find three variable knobs for control of vibrato speed (lower and upper) and tremolo speed. Normally, these should be set with the dot on the knobs in the approximate position of 1 o'clock on the face of a standard clock. Of course, the reason they are controllable is to allow for differences in taste; so please feel free to experiment. The same applies to the tuning of the two generators from the knobs in the setter-drawer. You will find suggested tunings with every registration, usually 11 o'clock upper and 9 o'clock lower. If a variant from these settings is indicated, it is usually a necessary part of the registration. Enjoy your new E-5AR!



#### Section I

TRAIN: Set up the registration for "Train" found in Section IV. To start the train, hold down all the notes on the upper keyboard from the lowest "B" down to the lowest "F", including the black keys. With the Repeat Speed lever in approximately the first position, you should now be hearing a very slow chug...chug...as the train starts out. Increase the speed gradually by slowly depressing the Repeat Speed lever further down until the desired speed is attained. To blow the whistle, play "F, A, C#" above "middle C" on the lower manual and move the expression pedal to the left a couple of times ("L. Glide should be on). To go through a tunnel, cancel all upper manual stops except the Flutes 16' and 8' and add a little Flute  $2^{2}/_{3}$ '. To come out of the tunnel, return to the original registration. You can cross a bridge by adding the String 4. To stop the train, just reverse the whole procedure. When you've stopped the train completely, you can let the steam out of the brakes by depressing the right hand white button (closest to the keyboard) to the left of the lower manual.

SIREN: Using the "Squawk" on the Portament, start at the far right end of the felt strip at a low volume. Move your finger as you think a siren should sound as you increase the volume.

CAT CALL: Register "Soprano Whistle" on Portament and move your finger as you would your tongue if you were whistling.

BIRDS: Register "Birds" on the Portament and using short right to left strokes, execute your bird calls at different pitches all along the felt strip.

OCEAN SURF: To the left of the lower manual, there are four white percussion buttons. While holding down the two closest to the keyboard, intermix the two "Button" controls at the far right end of the stop rail. Push the first one down slowly and then add the second . . . decrease one at a time in the same manner.



### Section II

FULL	ORGAN (T	heater)
UPPER:		
Brilliand		(2)
Flute	16'	(3)
Flute	8′	(3)
Flute	4'	(3)
Flute	2'	(3)
Flute	1'	(3)
Bassoon		(3)
Kinura	8'	(3)
String	8'	(3)
String	4'	(3)
String	2'	(3)
Coupler		U. On
Vibrato	<ul><li>Upper</li></ul>	(1)
LOWER		
Vibrato		(1)
Flute	8′	(3)
Flute	4'	(2)
Flute	4' 2 <sup>2</sup> / <sub>3</sub> ' 2'	(1)
Flute	2'	(1)
Diapasor		(3)
Diapasor		(2)
String	8'	(3)
String	4'	(2)
String C		(3)
PEDAL:		100
Bass Bass	16′	(3)
Tuba	8' 16'	(1)
Tuba	16′ 8′	(2) (2)
	CONTROLS	
Reverb:	COMINOES	•
Pedal Su	etain:	
Manual I		
FEFECT	SWITCHES:	•
Lower \		Rotary
Upper V		Rotary
Tremolo		On
Flute Sp		On
Manual		Normal
	(Pitch):	
Upper:		'Clock
Lower:		'Clock

PIANO & ORGAN ENSEMBLE

UPPER: (Both Hands) Brilliance (3)
Coupler L. 8' 4' to U. On
UPPER PRE-SETS:

Piano LOWER:

LOWER:
Vibrato — Lower
Flute 8'
Flute 4'
Diapason 8'
Diapason 4'
Cello 8'
Cello 4'

Bass 16' (3)
Bass 8' (1)
EFFECT CONTROLS:
Reverb: ...
Pedal Sustain: ...
Manual Balance: ...
EFFECT SWITCHES:
Lower Voice: Main
Tremolo: Manual Attack: Mormal
Damper: On
TUNING (Pitch):
Upper: 12 O'Clock
Lower: 9 O'Clock

Cello
Cello
String Celeste
PEDAL:

(1) (3) (2) (3) (2) (3) (2) (3)

CLASSICA	L ORGA	N (8 va)
UPPER:		
Brilliance		(3)
Attack	11/3'	(2)
Flute	8′	(3)
Flute Flute	4'	(3)
Flute	4' 2' 1'	(3) (3)
Kinura	8'	(3)
String	8′ 2′	(3)
Coupler U.	to Ū, 16'	4' 2'
Coupler L. I		
LOWER:		
Flute	2' 8'	(3)
Diapason	8'	(3)
Diapason	4'	(3)
PEDAL: Bass	16'	10)
Bass Bass	16' 8'	(3) (3)
Bass	4'	(3)
Tuba	16'	(3)
Tuba	8,	(3)
EFFECT CO	NTROLS:	10)
Reverb:	.,	
Pedal Sustair		
Manual Balai		
EFFECT SW		
Lower Voice		Rotary
Upper Voice Chorus:		lotary On
Flute Split:		On
Manual Atta	ck: N	lormal
Pedal solo —		Full
TUNING (Pi		
Upper:		Clock
Lower:	9 0'	Clock

# THEATER ENSEMBLE UPPER: Brilliance Flute Flute Flute Bassoon (1) (3) (3) (3) (2) (3) 16' 4' 1<sup>3</sup>/<sub>5</sub>' Bassoon 16' String 8' Coupler L, 8' 4' to U. Vibrato – Upper LOWER: Vibrato – Lower Flute 8' Flute 4' Diapason 8' (1) (3) (2) (2) Diapason o Cello 8' String Celest PEDAL: Bass 16' Bass 8' EFFECT CONTROLS: Reverb: .; (2) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: EFFECT SWITCHES: Lower Voice: Upper Voice: Rotary Tremolo: On Flute Split: On Manual Attack: Normal TUNING (Pitch): Upper: 12 O'Clock Lower: 9 O'Clock

EARL G	RANT SO	DUND #
UPPER:		
Brilliance		(3)
Length		(1)
Up Perc.	$2^{\frac{2}{3}}$	(1)
Flute	16'	(3)
Flute	8'.	(3)
Flute	5 1/31	(3)
Flute	4' 2 <sup>2</sup> /3'	(3)
Flute	2 <sup>2</sup> /3′	(3)
Flute	2′	(3)
Flute	1 <sup>3</sup> /5'	(2)
Flute	1'	(1)
Vibrato –	Upper	(1)
LOWER:		
Flute	8′	(3)
Flute	4'	(2)
Vibrato -	Lower	{1}
PEDAL:		
Bass	16′	(3)
Bass	8'	(2)
	CONTROLS	:
Reverb:	• • •	
Pedal Susta		
Manual Ba	lance: •†•	•
	WITCHES:	_
Lower Voi		Rotary
Upper Voi	ce:	Rotary
Tremolo:		_On
Manual At		Fast
TUNING (		
Upper:		'Clock
Lower:	9 C	Clock
E A D L . C	DANT CC	VIIID #0
	RANT SC	JUNU #2
UPPER:		
Brilliance		(2)
Flute	16'	(3)
lute	8′	(1)
Flute	1 <sup>3</sup> /5	(1)
	11	/21

	•	OOLOCK	
EARL	GRANT	SOUND	#
UPPER:			
Brilliano	e	(2)	
Flute	16'	(3)	
Flute	8′	(1)	
Flute	13/	s' (1)	
Flute	1 <sup>3</sup> /!	(3)	
	L. 8' 4' to		
	- Upper	(1)	
LOWER		, . ,	
Vibrato	<ul><li>Lower</li></ul>	(1)	
Flute	8′	(3)	
Flute	4'	(1)	
PEDAL:		,	
Bass	16'	(3)	
Bass	8,	(1)	
	CONTROL	LS:	
Reverb:	• †• •		
Pedal Su	ıstain: 🕌 ∔		
Manual I	Balance: 🐪	٠ţ٠	
EFFECT	SWITCHE	S:	
Lower V	oice:	Rotary	
Upper V	'oìce:	Rotary	
Tremolo:	:	On	
Manual ,	Attack:	Fast	
TUNING	(Pitch):		
Jpper:		O'Clock	
Lower:	9	O'Clock	

#### **FULL TIBIAS**

UPPER: Brilliance Flute 16' Flute 8' Flute 4' Flute 2' Flute 2' Flute 2' Flute 1' Coupler L. 8' 4' to Vibrato — Upper LOWER:	(3) (3) (3) (3) (3) 3' (2) (2) (2) 0 U. On (2)
Vibrato - Lower	(2) (3)
Flute 22/	3' (1)
Flute 2' PEDAL:	(2)
Bass 16'	(3)
Bass 8'	(1)
EFFECT CONTRO	
Reverb:	
Pedal Sustain:	
Manual Balance: '	·j·
EFFECT SWITCHE	•
Lower Voice:	Rotary
Upper Voice: Tremolo:	Rotary
Manual Attack:	On Normal
TUNING (Pitch):	INUTITIAL
Upper: 11	O'Clock
Lower: 9	

JAZZ ORG	AN	
UPPER: Brilliance Length		(3) (1)
Up. Perc.	4'	(1)
Flute	16'	(3)
Flute	8′	(3)
Flute	51/3'	(3)
Flute	13/5'	(3)
Flute	1'	(3)
Vibrato – Up	per	(1)
LOWER:		
Flute	8′	(3)
Flute	4′	(1)
	wer	(1)
PEDAL:		
Bass	16′	(2)
Bass	8'	(2)
EFFECT CON	TROLS:	
Reverb: .	<u>۱</u> ٠.	
Pedal Sustain:	1.	
Manual Balanc		
EFFECT SWIT		
Lower Voice:		otary
Upper Voice: Ensemble:	He	otary
		On
Chorus: Manual Attack		On
		Fast
TUNING (Pite		Maral.
Upper: Lower:		Clock
Lower:	9 0.0	Clock

FUNKY	ORGAN	l
UPPER: Brilliance Length Up, Perc, Flute Flute Vibrato — LOWER:	2 <sup>2</sup> /3 16′ 5 <sup>1</sup> /3 5 <sup>1</sup> /3 Upper	(3)
Vibrato – Flute Flute PEDAL:	Lower 8' 4'	(1) (3) (1)
Bass Bass EFFECT ( Reverb:		(3) (2) - <b>S</b> :
Pedal Sust Manual Ba EFFECT S	ain:	
Lower Vo Upper Voi Tremolo: Flute Split Manual At	ce: t: tack:	Rotary Rotary On On Fast
TUNING Upper: Lower:	(Pitch); 11 9	O'Clock O'Clock

HYMNS		
UPPER:		
Brilliance		(3)
Flute	8′	(3)
Flute	4'	(3)
Flute	2′	(3)
Flute	. 1'	(2)
Coupler L. 8	3' 4' to	o U. On
LOWER: Flute	01	10)
	2' 8'	(3)
Diapason Diapason	٥,	(3) (3)
PEDAL:	4	(3)
Bass	16'	(2)
Bass	8′	(2)
EFFECT CO	NTRO	LS:
Reverb: • •		
Pedal Sustain		
Manual Balar		<u>.</u>
EFFECT SW		-
Lower Voice		Rotary
Upper Voice: Ensemble:		Rotary
Chorus:		On On
Manual Attac	·k·	Normal
TUNING (Pit		Normal
Upper:	11	O'Clock
Lower:	9	O'Clock
	-	

# Section III

UPPER: Brilliance (3) Flute 8' (1) Flute 5 <sup>1</sup> /3' (1) Flute 4' (2) Flute 2' (3) Flute 1 <sup>3</sup> /5' (3) Flute 2' (3) LOWER: Flute 8' (2) Flute 4' (2) Flute 2 <sup>2</sup> /3' (3) Flute 2' (3) PEDAL: Bass 8' (3) Tuba 8' (1) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: EFFECT SWITCHES: Lower Voice: Rotary Upper Voice: Rotary Upper Voice: Rotary Ensemble: On Chorus: On Manual Attack Fast	## COMBO ORGAN  UPPER:  Brilliance (3) Length (2) Up. Perc. 2 <sup>2</sup> /3' (2) Flute 16' (3) Bassoon 16' (3) Oboe 8' (3) Kinura 8' (3) Coupler U to U. 16'4'2' On LOWER: Flute 8' (3) Flute 4' (2) Flute 2 <sup>2</sup> /3' (1) PEDAL: Bass 16' (3) Bass Guitar II (3) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: EFFECT SWITCHES: Lower Voice: Main Upper Voice: Main Flute Split: On Manual Attack: Fast TUNING (Pitch): Upper: 11 O'Clock	SAXOPHONE  UPPER: Brilliance (3) Flute 16' (2) Trombone 16' (3) Bassoon 16' (2) U. Touch Vibrato (1) or Vibrato — Upper (3) LOWER Flute 8' (3) Flute 4' (2) String Celeste (2) PEDAL: Bass 16' (2) Bass 8' (1) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: EFFECT SWITCHES: Lower Voice: Rotary Upper Voices: Main Tremolo: On Manual Attack: Normal TUNING (Pitch): Upper: 11 O'Clock Lower 9 O'Clock	ACCORDIAN   UPPER:   Brilliance   (3)   Clarinet   8'   (3)   Brass   8'   (3)   String   8'   (3)   String   4'   (1)   LOWER:   Vibrato - Lower   (1)   Flute   8'   (3)   Flute   4'   (2)   Flute   2'   (1)   PEDAL:   Bass   16'   (3)   Bass   8'   (1)   EFFECT CONTROLS:   Reverb:   Pedal Sustain
TUNING (Pitch): Upper: 11 O'Clock Lower: 9 O'Clock	Lower 9 O'Clock		
THEATER SOLO I 16'	THEATER SOLO II 8'	CONCERTINA	WALTER WANDERLY SOUND
U PPER: Brilliance (3) Flute 16' (2) Flute 4' (3) Bassoon 16' (2) Coupler L, 8'4' to U On Vibrato - Upper (1) LOWER: Vibrato - Lower (1) Flute 8' (3) Flute 4' (2) Diapason 8' (2) Cello 8' (3) Cello 4' (2) String Celeste (3) PEDAL: Bass 16' (3) Bass 8' (1) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: FFFECT SWITCHES: Lower Voice: Rotary Upper Voice: Normal TUNING (Pitch): Upper: 12 O'Clock Lower: 9 O'Clock	UPPER: Brilliance (3) Flute 8' (2) Flute 4' (3) Flute 1' (3) Kinura 8' (3) String 2' (3) Coupler L 8'4' to U. On Vibrato — Upper (1) LOWER Vibrato — Lower (1) Flute 8' (3) Flute 4' (2) Diapason 8' (2) Cello 8' (3) Cello 4' (2) String Celeste (3) PEDAL: Bass 16' (3) Bass 8' (1) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: FFECT SWITCHES: Lower Voice: Rotary Upper Voice: Rotary Tremolo: On Flute Split: On Manual Attack: Normal TUNING (Pitch): Upper: 12 O'Clock	UPPER: Brilliance (3) Brass 8' (2) String 8' (3) String 4' (3) Coupler L. 8'4' to U. On LOWER: Flute 8' (3) Cello 8' (3) Cellow 4' (3) PEDAL: Bass 16' (2) Bass 8' (1) EFFECT CONTROLS: Reverb Pedal Sustain: Manual Balance EFFECT SWITCHES: Lower Voice: Main Tremolo: On Manual Attack: Normal TUNING (Pitch): Upper: 2 O'Clock Lower: 10 O'Clock	UPPER: Brilliance (3) Length (3) Up. Perc. 2 2/3 (1) Flute 16' (3) Flute 22/3' (2) LOWER: Flute 8' (3) Flute 4' (2) Flute 2' (1) PEDAL: Bass 16' (3) Bass 8' (2) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: EFFECT SWITCHES: Lower Voice: Rotary Upper Voice: Main Tremolo: On Manual Attack: Fast TUNING (Pitch): Upper: 11 O'Clock Lower: 9' O'Clock
SLIDE TROMBONE  UPPER: Brilliance (3) Trombone 16' (3) U. Touch Vibrato (1) LOWER: Vibrato - Lower (1) Flute 8' (2) Diapason 8' (2) PEDAL: Bass 16' (2) Bass: 8' (1) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: EFFECT SWITCHES: Lower Voice: Rotary Upper Voice: Main Tremolo: On Manual Attack: Normal U. Glide On TUNING (Pitch): Upper: 11 O'Clock Lower: 9 O'Clock	Lower 9 O'Clock  WAW-WAW TRUMPET  UPPER: Brilliance (3) Brass 8' (3) LOWER: Vibrato - Lower (1) Flute 8' (2) Diapason 8' (2) String Celeste (2) PEDAL: Bass 16' (3) Bass 8' (1) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: EFFECT SWITCHES: Lower Voice: Main Tremolo: On Manual Attack: Fast Wah-Wah: On TUNING (Pitch): Upper: 11 O'Clock Lower: 9 O'Clock	VOX HUMANA  UPPER: Brilliance (3) Flute 4' (3) Kinura 8' (3) Vibrato — Upper (2) LOWER: Vibrato — Lower (1) Flute 8' (3) Flute 4' (2) String Celeste (3) PEDAL: Bass 16' (3) Bass 8' (1) EFFECT CONTROLS: Reverb: Pedal Sustain: •• Manual Balance: •• EFFECT SWITCHES: Lower Voice: Rotary Upper Voice: Rotary Upper Voice: Rotary Tremolo: On Manual Attack: Normal TUNING (Pitch): Upper: 12 O'Clock Lower 9 O'Clock	VIOLIN  UPPER: Brilliance (3) Kinura 8' (3) String 8' (3) U. Touch Vibrato (1) LOWER: Vibrato — Lower (1) Flute 8' (2) Diapason 8' (2) String Celeste (2) PEDAL: Bass 16' (2) Bass 8' (1) EFFECT CONTROLS: Reverb: Pedal Sustain: Manual Balance: FFECT SWITCHES: Lower Voice: Main Tremolo: On Manual Attack: Normal TUNING (Pitch): Upper: 11 O'Clock Lower 9 O'Clock

### Section IV

'XYLOPHONE	MARIMBA	114.00	<b>_</b>
UPPER :		HARP — Lower Manual	RINKY TINK PIANO
Brilliance /3)	UPPER: Brilliance (3)	UPPER: Brilliance (3)	UPPER:
Attack 1 1/3' (3)	Flute 8' (3)	Brilliance (3) Any complimentary voice	Brilliance (3) Coupler L. 8' 4' to U. On
Flute 4' (3)	Repeat Speed (3)	LOWER:	UPPER PRE-SETS:
LOWER: Flute 8' (2)	LOWER: Flute 8' (2)	Diapason 8' (3)	Guitar On
Flute 4' (1)	Flute 8' (2) Flute 4' (1)	Cello 8' · (1) PEDAL:	LOWER: Diapason 8' (3)
String Celeste (2)	PEDAL:	Bass 16' (3)	Diapason 8' (3) Diapason 4' (3)
PEDAL:	Bass 16' (3)	Bass 8' (1)	PEDAL:
Bass 16' (2) Bass 8' (1)	Bass 8' (1) EFFECT CONTROLS:	EFFECT CONTROLS:	Bass 16' (3)
EFFECT CONTROLS:	Reverb:	Reverb:	Bass Guitar 1 (2)
Reverb:	Pedal Sustain	Lower Sustain:	EFFECT CONTROLS:
Pedal Sustain: ' - ;- Upper Sustain - ;-	Manual Balance	Manual Balance: *†*	Reverb:
Manual Balance:	EFFECT SWITCHES: Lower Voice: Rotary	EFFECT SWITCHES: Lower Voice: Main	Pedal Sustain:
EFFECT SWITCHES:	Upper Voice: Main	Lower Sustain: On	Lower Sustain • • • • • • • • • • • • • • • • • • •
Lower Voice: Rotary	Tremolo: On	Manual Attack: Normal	EFFECT SWITCHES:
Upper Voice: Main Tremoto: On	Manual Attack: Normal TUNING (Pitch):	TUNING (Pitch):	Lower Voice: Main
Manual Attack: Normal	Upper: 11 O'Clock	Upper: 11 O'Clock Lower: 9 O'Clock	Upper Voice: Main Lower Sustain: On
Upper Sustain: On	Lower: 9 O'Clock	2 3 3 3 3 3 3 3 3	Damper: On
TUNING (Pitch); Upper: 11 O'Clock			TUNING (Pitch):
Lower: 9 O'Clock			Upper: 5 O'Clock Lower: 7 O'Clock
BANJO((Reiterating)	MANDOLIN	MUCIC BOY	
• • • • • • • • • • • • • • • • • • • •		MUSIC BOX	HAWAIIAN GUITAR
UPPER: Brilliance (3)	UPPER: Brilliance (3)	UPPER: Brilliance (3)	UPPER: Brilliance (3)
Flute 4' (2)	String 8' (3)	Attack 1 <sup>1</sup> /3' (2)	Brilliance (3) Flute 8' (2)
Flute 2 <sup>2</sup> /3' (3)	String 4' (2)	Flute 4' (3)	Flute 4' (2)
Brass 8' (3) String 8' (3)	Repeat Speed (3) LOWER:	LOWER:	Clarinet 8' (3)
Repeat Speed (3)	Flute 8' (2)	Flute 8' (2) Flute 4' (1)	Brass 8' (2) Vibrato – Upper (2)
LOWER:	Flute 4' (1)	Cello 8' (2)	LOWER:
Flute 8' (3) Flute 4' (2)	String Celeste (2)	String Celeste (2)	Vibrato – Lower (1)
Flute $4'$ (2) Flute $2^{2}/_{3}$ (1)	PEDAL: Bass 16' (3)	PEDAL: Bass 16' (2)	Flute 8' (3)
String Celeste (2)	Bass 8' (1)	Bass 16' (2) EFFECT CONTROLS:	Diapason 8' (3) Cello 8' (3)
PEDAL:	EFFECT CONTROLS:	Reverb:	PEDAL:
Bass 16' (3) Bass 8' (1)	Reverb:	Pedal Sustain:	Bass 16' (3)
EFFECT CONTROLS:	Manual Balance:	Upper Sustain: '٫'  Manual Balance: '٫'	Bass 8' (1) EFFECT CONTROLS:
Reverb:	EFFECT SWITCHES:	EFFECT SWITCHES:	Reverb: •
Pedal Sustain:	Lower Voice: Rotary	Lower Voice: Rotary	Pedal Sustain: ***.;.
Manual Balance: EFFECT SWITCHES:	Upper Voice: Main Tremolo: On	Upper Voice: Main Tremolo: On	Upper Sustain:
Lower Voice: Rotary	Manual Attack: Normal	Manual Attack: Normal	Manual Balance: ' ', ' EFFECT SWITCHES:
Upper Voice: Main	TUNING (Pitch):	Upper Sustain: On	Lower Voice: Rotary
Tremolo: On Manual Attack: Fast	Upper: 11 O'Clock Lower: 9 O'Clock	TUNING (Pitch):	Upper Voice Main
TUNING (Pitch):	LOWER. 9 O Clock	Upper: 11 O'Clock Lower: 9 O'Clock	Upper Sustain. On Tremolo; On
Upper 11 O'Clock		20 War. 3 0 Clock	Manual Attack: Normai
Lower: 9 O'Clock			U. Glide: On
			TUNING (Pitch): Upper: 11 O'Clock
			Lower: 9 O'Clock
ORCHESTRA BELLS	TRAIN SET-UP	LES PAUL SOUND	GRAND HARPSICHORD
UPPER:	UPPER:	UPPER:	UPPER:
Brilliance (3)	Brilliance (3)	Brilliance (3)	Brilliance (3)
Attack 1 1/3' (2)	Flute 16' (3)	Brass 8' (3)	Oboe 8' (2)
Flute 8' (3)	Flute 8' (2) Flute 4' (1)	Repeat Speed (2)	Kinura 8' (3)
Flute 8' (2)	Flute 4' (1) Clarinet 8' (2)	Vibrato – Upper (2) LOWER:	Coupler U, to U, 16'4'2' On LOWER:
Flute 4' (1)	Brass 8' (1)	Vibrato – Lower (1)	Flute 8' (2)
Cello 8' (2)	Kinura 8' (2)	Flute 8' (3)	Flute 4' (1)
String Celeste (2) PEDAL:	Repeat Speed (1) LOWER:	Flute 4' (2) Diapason 8' (2)	Cello 8' (2)
Bass 16' (2)	Flute 4' (3)	Diapason 8' (2) String Celeste (2)	String Celeste (2) PEDAL:
Bass 8' (1)	Diapason 8' (3)	PEDAL:	Bass 16' (2)
EFFECT PEDAL: Reverb:	EFFECT CONTROLS:	Bass 16' (3)	Bass 8' (1)
Pedal Sustain: 1	Reverb:	Bass 8' (1) EFFECT CONTROLS:	EFFECT CONTROLS: Reverb ::
Upper Sustain:	EFFECT SWITCHES:	Payorh:	Pedal Sustain:
Manual Balacne:	Lower Voice: Rotary	Pedal Sustain:	Upper Sustain:
EFFECT SWITCHES: / Lower Voice: Rotary	Upper Voice: Rotary Ensemble: On	Upper Sustain:	Manual Balance:
Upper Voice: Main	Manual Attack: Normal	Manual Balance: EFFECT SWITCHES:	EFFECT SWITCHES: ( Lower Voice: Rotary
Tremolo: On	Lower Glide: On	Lower Voice: Rotary	Upper Voice: Main
Manual Attack: Normal	Button 1 (3)	Upper Voice: Main	Tremolo: On
Upper Sustain: On TUNING (Pitch):	TUNING (Pitch): Upper: 11 O'Clock	Tremolo: On Manual Attack: Normal	Manual Attack: Normal
Upper: 11 O'Clock	Lower: 9 O'Clock	Upper Sustain: On	Upper Sustain: On TUNING (Pitch):
Lower: 9 O'Clock		TUNING (Pitch):	Upper: 11 O'Clock
		Upper: 11 O'Clock	Lower: 9 O'Clock
		Lower: 9 O'Clock	

# **Specifications**

DIVISONS	Upper Vibrato	Rhythm Controls
Upper Manual 61 keys C ~ c4	• •	Rhythm Start
(5 octaves)	EFFECT CONTROLS	Synchro-Start
Lower Manual 61 keys C ~ c4	Upper Sustain	Rhythm Stop (Exp. pedal control)
(5 octaves)	Lower Sustain	with Indicator Lamp
Peadalboard 25 keys C1~		Tempo
(2 octaves)	Reverb	Volume
Portamento 3 octaves c ~ c		Tone Balance
TONE LEVERS	EFFECT SELECTORS	Tempo Indicator Lamp
Upper Manual	Upper Flute Split	OTHER CONTROLS
Flute 16' Basoon 16	* *	
Flute 8' Clarinet 8	• • •	Knee Lever
Flute 51/3' Brass 8		Master Volume
Flute 4' Oboe 8	/	Portamento Volume
Flute 22/3 Kinura 8	The contract of the contract o	
Flute 2' String 8		Expression Pedal (Dual control)
Flute 13/5' String 4	Oppu. 0	Upper, Lower Pitch Controls
	2/3' Wah-Wah (Upper)	· · ·
Trombone 16' String 2		Upper, Lower Vibrato Speed Controls tones) Tremolo Speed Control
Lower Manual	Auto Rhythm Stop	Power Switch with Pilot Lamp
Flute . 16' Diapason 8	•	- · · · · · · · · · · · · · · · · · · ·
Flute 8' Diapason 4		
Flute 4' Cello 6		The state of the s
Flute 2 <sup>2</sup> / <sub>3</sub> ' Cello 4		Tone Gabrier Gabrier
Flute 2' String Cele		Headphone Jack
Horn 8'	Chorus	External Input Jack
Pedalboard	Upper Flute Split	Roll-top Fallboard with Auto Switch and Lock
Bass 16' Tuba 8		Music Rest
		Matching Bench with Music Storage Space
Başs 8' Bass Guita Bass 4' Bass Guita		NATURAL SOUND SPEAKERS
Tuba 16'	1 ~ 2 Upper	Main: JA5101A 59x48cm(23¼x14½")
COUPLERS		JA-1704A 22x28cm(8%x11")
Upper to Upper 16' · 4' · 2'		
Lower 8' · 4' to Upper		(Factory set) Electro-control 2-speed
PRESET TONE SELECTORS (UI		CIRCUITRY
Piano Banjo	Percussion Levers	50/1d 51d15 (11/6/1 155 51/6 1 2 1 7)
Harpsichord Vibraphone		Main Amplifier: OCL System Dual-channel
Guitar Chimes	Lower Cymbal	Total Continuous Output Power: 120Watts
PORTAMENTO TONE SELECTO	•	Power Consumption: 250Watts
Tenor Whistle Birds	Button I	100/110/117/125/220/240V AC, 50/60Hz
Soprano Whistle Astro	Button II	DIMENSIONS
•		Cabient Bench
Squawk	Percussion Buttons (F	Trialli 1000m (01/0)
EFFECT LEVERS	AUTO RHYTHM SECTI	Baptin your (East)
Brilliance (Upper & Lower)	Rhythm Selectors	w/pedals 115cm (45½")
Percussive 4' (Upper)		ango Height: 106cm (41%") 60cm (23%")
Percussive 2 <sup>2</sup> / <sub>3</sub> ' (Upper)	•	eguine WEIGHT 140kg (308lbs.) 17kg (37lbs.)
Percussive 2' (Upper)		humba FINISH
Percussive Length (Upper)		ambo Natural American Walnut, Oil Finish
Attack 1 1/3' (Upper)		ossanova
Repeat Speed (Upper)	•	mba I
Touch Vibrato (Upper)	Jazz Rock II S	mba II Specifications subject to change without notice.

#### Special Instructions for British-Standard Model

As the colours of the wires in the mains lead of the apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol — or coloured GREEN or GREEN-and-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter t. or coloured RED.

#### **IMPORTANT**

THE WIRES IN THE MAINS LEAD ARE COL-OURED IN ACCORDANCE WITH THE FOLLOW-ING CODE.

GREEN-AND-YELLOW: EARTH BLUE: NEUTRAL

BROWN:

LIVE

**WARNING:** 

THIS APPARATUS MUST BE EARTHED.

SENCE 1887 YAMAHA
NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN