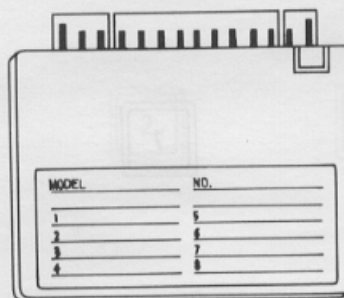
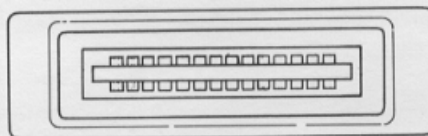


MEMORY READY

ERROR



REGISTRATION PACK

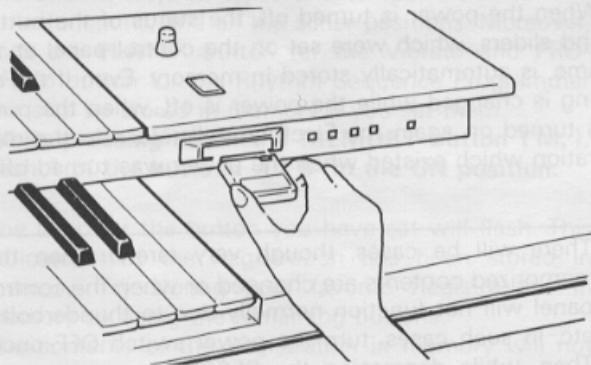


Registration Pack

The information memorized in the Electone by using buttons 1-8 can be transferred to the Registration Pack. Subsequently, you will be able to use the information transferred to the Registration Pack anytime.

[Operation (WRITE) for transferring information in the Electone's memory to the Registration Pack]

- 1) Store your favorite registrations in memory by using buttons 1 - 8 .
- 2) Insert the Registration Pack.



Firmly insert the Registration Pack straight into the slot as shown in the diagram. Subsequently, the MEMORY READY lamp will flash.

★ When it is not inserted correctly, the ERROR lamp will flash. Please reinsert the Registration Pack.

- 3) Depress the WRITE button while pressing the CONFIRM button.

Subsequently, the WRITE lamp will flash, indicating that the information in the Electone's memory has been transferred to the Registration Pack.

- ★ If the registration have already been entered on a number of Registration Packs, it will be convenient during a concert or other performance.
- ★ When new information is written into a Registration Pack, the previous information it contained will be erased.
- ★ If the tab on the side of the Pack is removed, it will prevent the operation. The information in such a pack will be protected.

[Operation (READ) for transferring the information contained in the Registration Pack into the Electone's memory]

- 1) Insert the Registration Pack.
- 2) Set on the READ button while pressing the CONFIRM button.

Subsequently the READ lamp will flash, this indicates that the information in the Registration Pack has been stored in memory for buttons 1-8. Now, even if you remove the pack, you will still obtain the registrations which were stored there.

- 3) By using buttons 1 - 8 experiment with a variety of registrations.

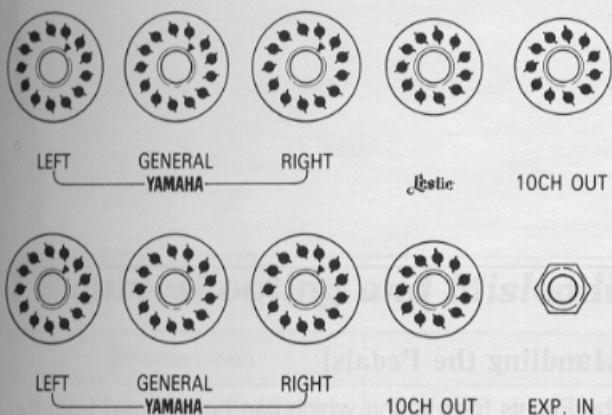
For information regarding buttons 1-8 refer to the instructions which were included with the Registration Pack.

- ★ When the procedure explained above has not been properly executed, the ERROR lamp will flash.
- ★ The contents stored in memory for buttons 1-8 until this time will be erased when the Registration Pack is read into the Electone.

The supplied Registration Pack contains a memory of 8 sets of preset tone information.

Further, it is possible to memorize the Registration of your choice in this pack with the "WRITE" operation.

III. Useful Information about Using the Electone



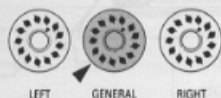
Tone Cabinet Connectors

On FX-1, the tone cabinet is plugged to connectors that are located at the lower portion of both sides, and various connections can be used according to the size of the concert hall and the purpose of usage.

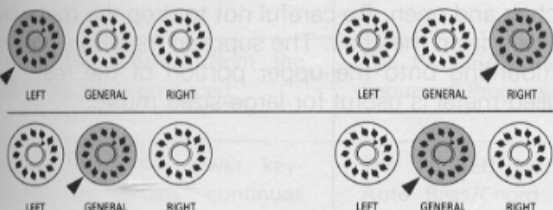
● YAMAHA connectors (13 pins)

These are used for connecting the YAMAHA Tone Cabinets. There are 3 of these on each side, and you can use the connectors on either side.

When using 1 Tone Cabinet: Connect to the connector of GENERAL.



When using 2 Tone Cabinets: One method is connecting to the LEFT and RIGHT connectors, and the other is connecting both to the GENERAL. When using the first method, sound from various tone groups can be effectively separated and output.



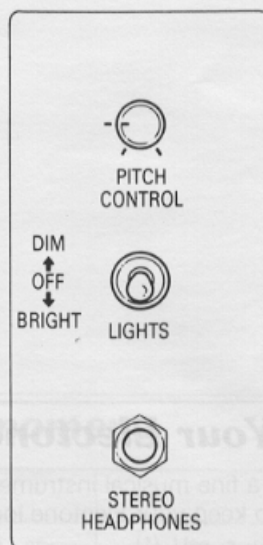
When using more than 3 Tone Cabinets: The 6 connectors on both sides can be efficiently used, taking factors into consideration such as the acoustic effects of the hall being used.

● LESLIE connector (11 pins)

This is used for connecting the LESLIE speaker.

● 10 CH OUT connector

When this connector is used, sound from various tone groups are separated out to 10 channels, and it is possible to output each one individually. Connect the mixer with the connector when using the PA system of a large-sized hall. This connector is also used during recording.



Other Controls and Jacks

● LIGHTS switch

This is the switch of the panel light that lights up the keyboard and panel side of the Electone. A bright light is obtained when the switch is turned forward to the BRIGHT side while the central switch is OFF. On the other hand, a dim light is obtained when switched to the DIM side.

● PITCH CONTROL

The pitch for the entire Electone can be subtly controlled with the PITCH CONTROL knob. The pitch will become higher as the knob is turned to the right.

● STEREO HEADPHONES jack

This jack is used for connecting the stereo headphones. Since sound is produced from the tone cabinet even with the headphones connected, this feature can be used as a monitoring device.

● EXP. IN jack

This jack is used for connecting a synthesizer or rhythm box. The volume of the attached equipment can be controlled with the Electone's expression pedal.

Looking After Your Electone

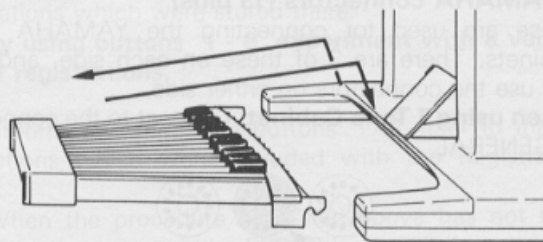
Always treat your Electone as a fine musical instrument. Use the following procedure to keep your Electone looking and sounding its best.

- 1) Make sure you are using the correct power voltage. If any changes are required, consult your Yamaha serviceman first.
- 2) Your Electone does not have any user serviceable components. Rely only on qualified service technicians for repairs.
- 3) Always turn the power switch OFF after you have finished playing the Electone.
- 4) Clean the cabinet and keys of your Electone with a clean cloth moistened only with a mild detergent. Never use any strong chemical solvents such as thinner or alcohol.
- 5) Keep your Electone away from direct sunlight, excess humidity and heat in order to preserve the cabinet finish and joints.
- 6) Do not hit or scratch the cabinet with any hard objects.
- 7) Never put any objects made of vinyl on your Electone, since the finish reacts chemically to vinyl.
- 8) Remove the electric plug from the power outlet when you will not be using the Electone for some time or if there is any thunder.

Handling the Pedals

The Pedals form a unit which can be removed from the Electone. Use the following procedure when either removing or inserting the Pedals.

- Make sure two people handle the pedals and that no undue force is used during handling.
- The Pedal unit is not pushed directly into the Electone. Rather, tilt the unit slightly upwards and push.
- When removing the pedal unit, first lift it up slightly and then pull it out.



Storage and installation of the music rest

The music rest is located inside the chair. When installing onto the Electone, loosen the screw at the front part of the chair and open. Be careful not to drop the rest when removing from the chair. The supplied metal is a support for mounting onto the upper portion of the rest. The supplied metal is useful for large-sized music.

Troubleshooting and Misleading Phenomena

Phenomenon	Cause	Solution
Radio frequency interference, static noise	<ol style="list-style-type: none"> (1) Noise is caused when home appliances such as refrigerators and washing machines go on and off. (2) May be caused by the failure of a neon sign in the neighborhood, an electric drill, etc. 	<ol style="list-style-type: none"> (1) Use a power outlet located farthest from the appliance you suspect is causing the problem. (2) If possible, have the neon sign repaired. (3) If you cannot discover the source of the noise, phone your local Yamaha dealer.
TV or radio reception is adversely affected when the Electone is turned on.	The radio or TV set is being used in the immediate vicinity of the Electone.	Move the radio or TV set as far away from the Electone as possible. Upgrade the TV or radio antenna system.
Occasional interference from radio or TV broadcasts.	A broadcasting station with a high signal strength or an amateur radio station is located nearby.	Try to identify the type of station: TV, FM radio, AM radio, "ham" operator, CB operator, etc.
Sound resonance or vibration	Since the Electone produces a continuous sound, the surrounding cupboards, window panes and other objects may resonate.	<ol style="list-style-type: none"> (1) Turn down the sound volume. (2) If possible, remove the resonating objects.
The pitch feels high when using the pedals and low when using the treble section for the upper and lower keyboards.	This seems particularly so in comparison to a piano. However, the overtone construction of a piano is complex, particularly in the treble and bass. For a piano, melodies are not formed with the actual direct vibrations but when the overtones are heard. The formation of melodies is exactly the opposite for the Electone.	
A rhythm different from the one you set is produced.	The PROGRAM buttons for the Rhythm Sequence Programmer are on.	Keep the PROGRAM buttons off when you are not using the Rhythm Sequence Programmer.
Sound from the lower keyboard or pedals continues playing.	The LOWER MEMORY button for the Auto Bass/Chord section or the PEDAL MEMORY button are on for using the Rhythm.	Set off the LOWER MEMORY or the PEDAL MEMORY buttons.
The setting for the Rhythm and Auto functions does not change even when buttons 1-8 of the Registration Memory section are set on, or none of the sliders will move.	Either the DISABLE button or the SLIDER DRIVE button are on.	When you want to change the entire registration, set the DISABLE and SLIDER DRIVE buttons off.

Specifications/Technische Daten/Caractéristiques Techniques

Especificaciones/Tekniska data

KEYBOARDS

Solo: 37 keys $c_1 \sim c_4$ (3 octaves)
 Upper: 61 keys $C \sim c_4$ (5 octaves)
 Lower: 61 keys $C \sim c_4$ (5 octaves)
 Pedals: 25 keys $C_1 \sim c$ (2 octaves)

COMBINATION

Upper: Combi. Lever, Memory 1•2•3,
 Preset 1•2•3•4, Volume,
 (Levers) $16', 8', 6^{2/5}', 5^{1/3}', 4', 2^{2/3}', 2', 1^{3/5}',$
 $1^{1/3}', 1',$ Attack $4' \cdot 2^{2/3}' \cdot 2'$, Attack Length
 Lower: Combi. Lever, Memory 1•2•3,
 Preset 1•2•3•4, Volume,
 (Levers) $16', 8', 5^{1/3}', 4', 2^{2/3}', 2', 1',$
 Attack $4' \cdot 2^{2/3}'$, Attack Length
 Pedals: Combi. Lever, Memory, Preset 1•2, Volume,
 (Levers) $16', 8', 4'$

ORCHESTRA

Upper: Strings 1, Strings 2, Strings 3, Strings 4, Brass 1,
 Brass 2, Brass 3, Reed 1, Reed 2, Vocal, Spice 1,
 Spice 2,
 (Controls) Preset Vibrato, Touch Tone, Volume
 Lower: Strings 1, Strings 2, Strings 3, Brass 1, Brass 2,
 Brass 3, Reed, Vocal 1, Vocal 2, Spice 1, Spice 2,
 Cosmic,
 (Controls) Preset Vibrato, Touch Tone, Volume

SPECIAL PRESETS

Upper: Piano, Harpsichord, Celesta, Vibraphone,
 Marimba, Mandolin, Banjo, Jazz Guitar, Brass 1,
 Brass 2, Cosmic,
 (Controls) Touch Tone, Volume
 Lower: Piano, Electric Piano, Harpsichord, Harp, Acoustic
 Guitar, Jazz Guitar, Brass 1, Brass 2, Cosmic 1,
 Cosmic 2, Cosmic 3,
 (Controls) Touch Tone, Volume

CUSTOM VOICES

Upper/Lower: Flute, Oboe, Clarinet, Saxophone, Trumpet,
 Trombone, Violin, Jazz Guitar, Hawaiian Guitar,
 Bass Guitar, Vocal, Cosmic 1, Cosmic 2, Cosmic 3,
 Cosmic 4,
 (Controls) Preset Vibrato, Touch Vibrato, Touch
 Tone, Volume
 Pedals: Contra Bass 1, Contra Bass 2, Contra Bass 3,
 Contra Bass 4, Tuba, Electric Bass 1, Electric
 Bass 2, Electric Bass 3, Vocal, Cosmic,
 (Controls) Brilliance, Volume

SOLO

Piccolo, Flute, Oboe, Clarinet, Saxophone, Trumpet 1,
 Trumpet 2, Horn, Trombone, Violin, Cello, Jazz Guitar,
 Harmonica, Vocal, Cosmic 1, Cosmic 2,
 (Controls) Detune, Coupler, Transposition (Down, Normal,
 Up), Preset Vibrato, Touch Vibrato, Touch Tone, Brilliance,
 Volume, Slide Control

ENSEMBLE

Upper Combi., Upper Orches., Upper Special, Upper
 Custom, Lower Combi., Lower Orches., Lower Special,
 Lower Custom,
 Coupler: Lower to Upper, Upper to Lower

EFFECTS • CONTROLS

Sustain: (Switches) Upper Sustain (Knee), Lower Sustain
 (Knee), Pedal Sustain,
 (Controls) Upper, Lower, Pedal
 Symphonic: Celeste, Symphonic, Upper Combi., Upper
 Orches., Lower Combi., Lower Orches.
 Tremolo: Chorus, Tremolo, Upper Combi., Upper Orches.,
 Lower Combi., Lower Orches., Tremolo Speed
 Reverb, Glide (Foot Switch Control), Dynamic Range
 Control (Solo, Upper, Lower, Pedal),
 (Combination) Program Set, Response Fast, Timbre Variation
 Vibrato Presetter: Set, Lever, Player, Preset,
 (Controls) Touch Depth, Delay, Depth, Speed,
 (Indicator) Solo, Upper Orches., U/L Custom,
 Lower Orches., Pedals

AUTO RHYTHM

Pattern Selectors: March, Waltz, Ballad, Swing, Bounce,
 Slow Rock, 8 Beat 1, 8 Beat 2, Tango, Latin 1,
 Latin 2, Bossanova, Samba, Latin Rock, Disco, 16
 Beat, Variation 1•2•3•4
 Break Variation: 1•2•3 (16×3 patterns), Break, Break
 Variation (Foot Switch Control)
 Auto Variation: Normal, 4 Bar, 8 Bar, 16 Bar
 Rhythm Sequence Programmer: Program 1•2•3•4
 (64 Bars×4), On, Record, Blank, End, Back,
 Forward
 Digital Display: Tempo, Bar/Beat
 Controls: Synchro Start, Start, Tempo, Volume, Balance,
 Tempo Indicator Lamp, Rhythm Stop (Foot
 Switch Control)

AUTO ARPEGGIO

Pattern Selectors: 1•2•3•4•5•6•7•8
 (16×8 patterns)
 Voice Selectors: Piano, Harpsichord, Strings, Harp,
 Volume (control)

RHYTHMIC CHORD

Pattern 1: Piano, Jazz Guitar, Solid Guitar, Phaser (effect),
 Volume (control)
 Pattern 2: Brass, Jazz Guitar, Solid Guitar, Phaser (effect),
 Volume (control)

AUTO BASS/CHORD

Normal, Custom A.B.C., Multi Bass (Normal, 1, 2, 3),
 Lower Memory, Pedal Memory

REGISTRATION MEMORY

Preset buttons: 1•2•3•4•5•6•7•8
 Controls: Memory, Cancel, Disable, Slider Drive
 Registration Pack: Read, Confirm, Write
 (Indicator) Memory Ready, Error

MAIN CONTROLS

Manual Balance, Master Volume, Expression Pedal, Expression Pedal display (On, Bright, 10 position), Reset, Knee Lever, Foot Switch, Power Switch, Lights (Dim, Off, Bright), Pitch Control

OTHER FITTING

Yamaha tone cabinet connectors Left × 2 • General × 2 • Right × 2 (13 pins), Leslie tone cabinet connector (11 pins), 10 Ch Out connectors × 2 (11 pins), Exp. In jack, Stereo Headphones jack, Registration Pack, Panel Lights, Music Rest, Matching Bench

CIRCUITRY

Solid State (incl. LSIs and ICs)
Power Consumption: See Electone nameplate
Power Source: 50/60Hz AC

DIMENSIONS

Cabinet: 150(W) × 71(D) × 112(H) cm
(59" × 28" × 44")

Bench: 105(W) × 41(D) × 64(H) cm
(41¹/₃" × 16" × 25¹/₄")

WEIGHTS

Cabinet: 230kg (507 lbs.)

Pedals: 25kg (55 lbs.)

Bench: 70kg (154 lbs.)

FINISH

Ivory • Urethan Finish

**Specifications subject to change without notice.*

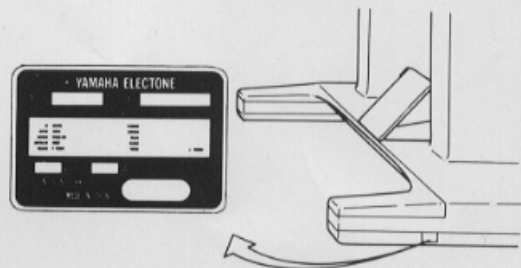
[Where to find the Name plate]

[Hier ist das Typenschild angebracht]

[Emplacement de la plaque signalétique]

[Dónde localizar el membrete]

[Placering av namnplåt]



Special Instructions for British Standard Model

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

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 L or coloured RED.

IMPORTANT

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

BLUE: NEUTRAL

BROWN: LIVE

SINCE 1887



YAMAHA

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