

YAMAHA
COMBO ORGAN

MODEL YC-25D

OWNER'S MANUAL

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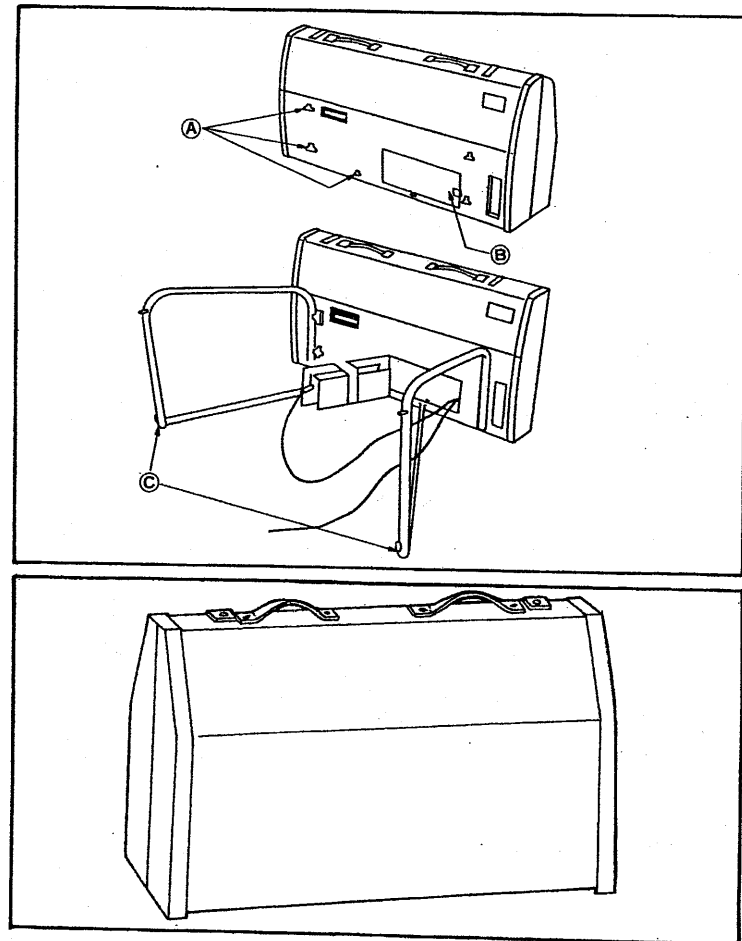
INTRODUCTION

Thank you for selecting the Yamaha YC-25D for your TWO-MANUAL combo organ! We hope you will read this manual carefully and will experiment with the organ's many special features, in order that a more complete understanding of its versatility will be yours. The Yamaha Combo Organ Model YC-25D has two-manual control of tones and effects to create a rich, percussive effect, upper and lower bright effect, touch vibrato, individual style, manual/pedal bass switchover, impressive design. And you get a full array of convenience extras, including pitch, master volume and bass volume controls, easy set-up and portability, decades-durable solid state circuitry. The above mentioned controls and features will be explained in more detail in the following pages.



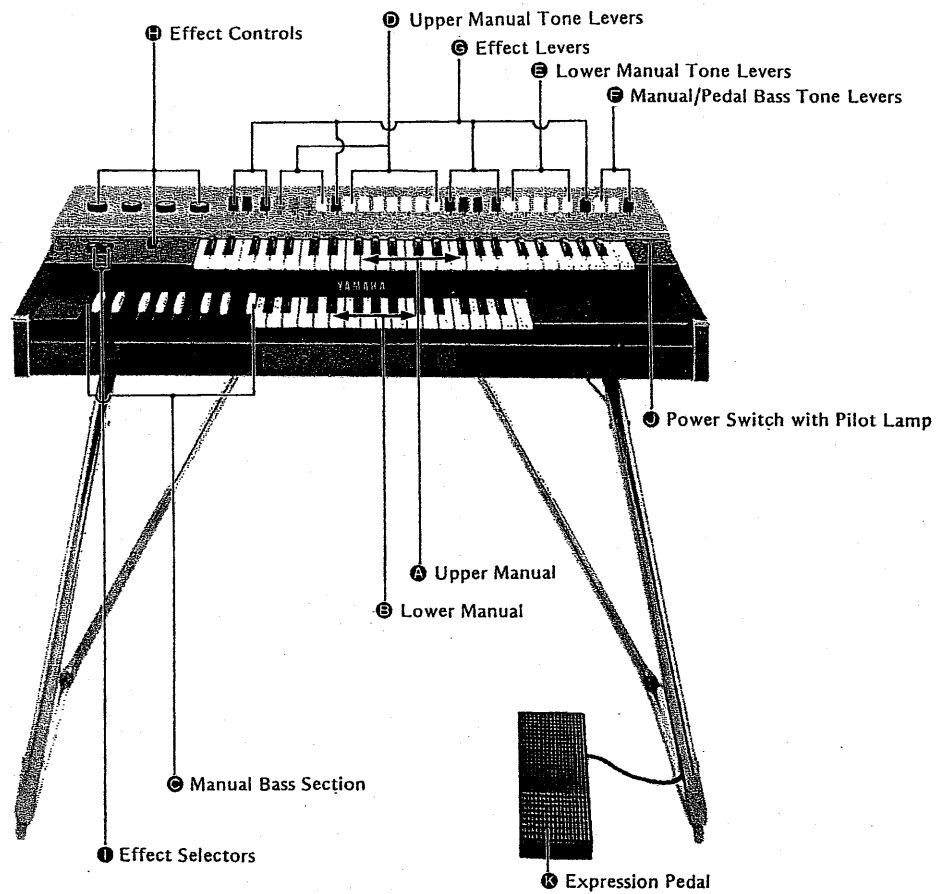
ASSEMBLY

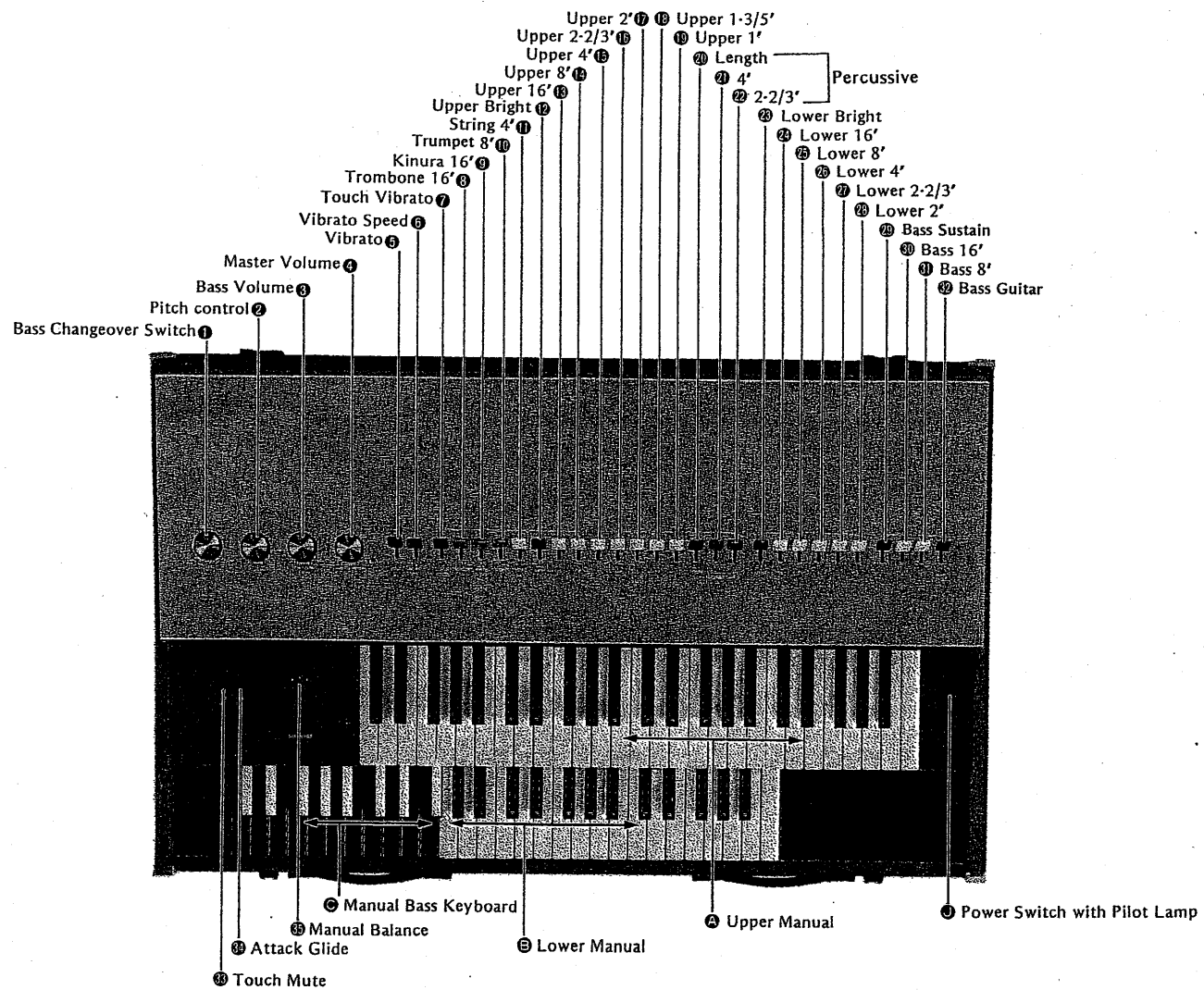
1. After loosening six screws (A) about half way, install the legs (which are in a separate vinyl carrying bag) as shown in the figure and tighten the screws.
2. Open the cover by releasing catch (B). The expression pedal and power supply cord can then be removed.
3. Check the input cord for loose or intermittent connections.
4. When standing the unit upright, balance it by adjusting balancing screw (C).



Completely disassembled, parts stored, and cover in place, your Yamaha Combo Organ YC-25D becomes a convenient, portable unit as shown.

HERE IS YOUR YAMAHA COMBO ORGAN YC-25D





HOW TO PLAY YOUR YC-25D

1. Keyboards **A B C**

The YC-25D keyboards are as follows :

Upper Manual A	49 keys (c~c ₄)	4 octaves
Lower Manual B	49 keys (C~c ₃)	4 octaves
Manual Bass C	19 keys (C ₁ ~F#)	1 ² / ₃ octaves
Pedal Bass (optional)	13 keys (C ₁ ~C)	1 octave

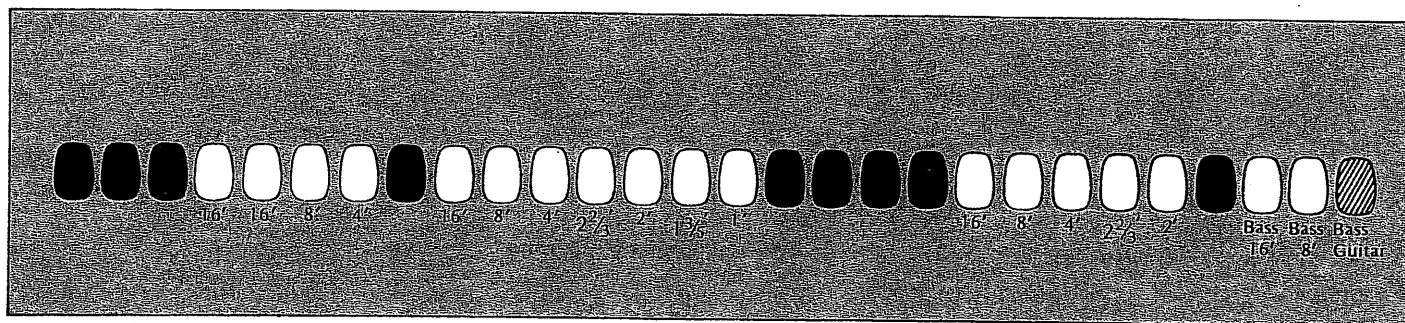
The manual keys are made of durable material, designed for years of beautiful appearance and playing ease. The manual keys work with the tone levers for tone color selection. The 19 bass keys on the extreme left end of the lower manual,

identified by reversed colors, become a manual bass section when the Bass Changeover Switch (Manual/Pedal) is set for Manual Bass. When this switch is set for Pedal Bass and the optional pedals are attached, they work as the bass section. In either case bass tones are set by the Manual Bass or Pedal Bass tone levers. When the pedal bass is used (with the switch set to Pedal Bass), the above-mentioned 19 lower manual keys become a regular extension of the lower manual.

2. Tone Levers **D E F**

There are three groups : one group for the Upper Manual (11 voices), one for the Lower Manual (5 voices) and one for

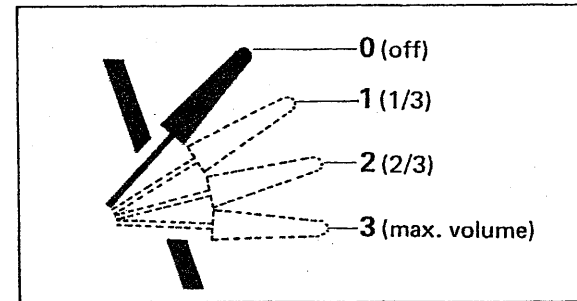
the Manual or Pedal bass (3 voices).



Exclusive Yamaha's Tone Lever System

This unique system provides much more variety than the conventional on/off system of organ stops. Here each voice has its own lever, which slides continuously from off to full for unlimited variety of tonal shadings, a wider expressive range for the keyboard master. For the beginner, or the player in a hurry, there are two click-stops along the way, at 1/3 and 2/3 full settings. The click-stops can be clearly felt, even though they do not hamper the continuous slide control, and they can be used to reset tonal combinations with mathematical precision. The YC-25D provides this world-famous system to satisfy every talent and playing style. Full mastery of tone lever use is the most important point in developing your own style, so make it a practice to recreate tones you

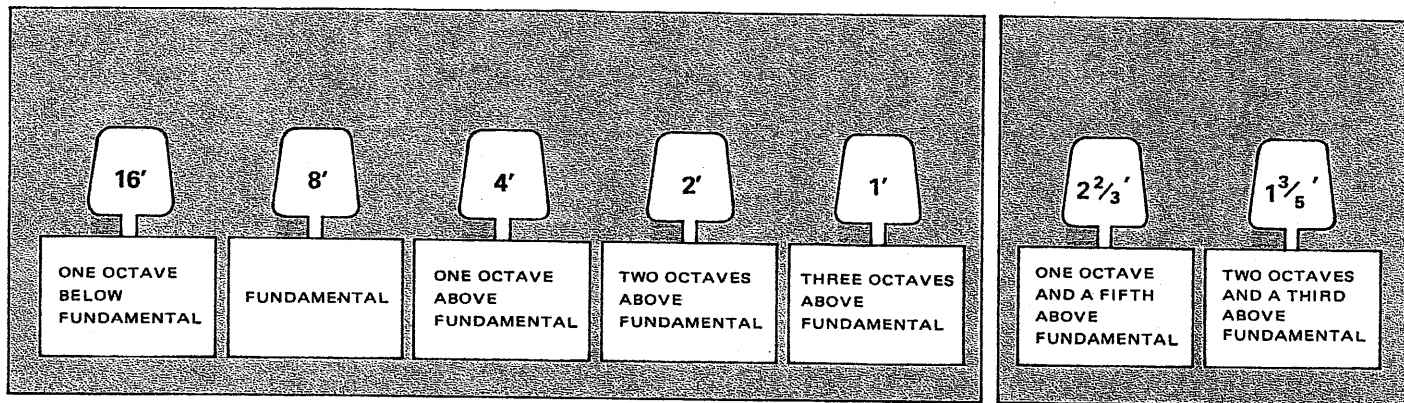
have heard and like, as well as creating your own. Also note that the upper, lower and bass tone lever settings will have a direct effect upon the relative balance of these three sections.



Harmonic

Tone levers provide several harmonics (8', 16', 2²/₃', etc.) ; the 8' levers are "fundamentals," which means they have the same pitch as the written note. The others are called "har-

monics" because they are at certain intervals above or below the written note. For purposes of classification, harmonics are generally divided into "consonants" (at octave intervals



from the fundamental) and "dissonants" (separated by a third or fifth from the fundamental). An example will show what this means in playing. If you press middle C (called "c₁" in musical terminology) and set a 4' tone lever, you will get the same note as you would by pressing c₂ (an octave above c₁) with an 8' tone lever. This means, of course, that the YC-25D's range is really much wider than the actual keyboard; using the 16' lever, for example, will extend its scope down to c₁ (see illustration). Similarly, the 1' lever raises the tone three octaves. Here, however, there is a limitation : the

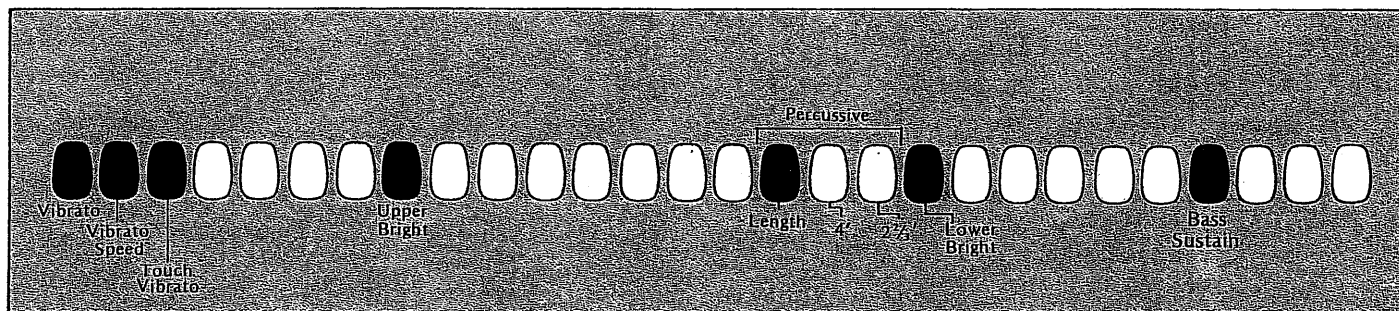
highest note the YC-25D can produce is b₅. Any notes above this will actually sound in the fifth octave above middle C. This unavoidable limitation is nothing to worry about, for the YC-25D's actual range is still more than enough for the most demanding organist. The use of the harmonic levers is not to extend the range of pitches, but rather to create richer full-bodied tonal combinations within the normal playing range. They are the spices that flavor the various fundamentals, suiting them to the mood of each selection.


Bass Guitar

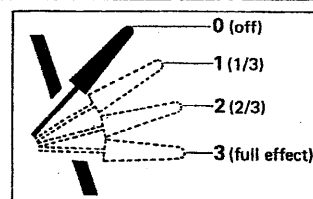
Provides an attack and decay on all bass notes when this voice is used. The tone decays more rapidly when the

key is depressed.

3. EFFECT LEVERS



The effect levers  of the YC-25D provide a wide range of tonal effects which add to the variety of possible combinations. These levers have the same operation as the tone levers and allow the organist to vary the depth or speed of their effects according to their stop positions as illustrated.



Vibrato ⑤

The use of vibrato increases the emotional quality of the tone and adds a brisk and lively air to passages of relative sim-

Vibrato Speed ⑥

Used in concert with the vibrato lever, it controls the oscillating speed of the vibrato, which increases as it is

Touch Vibrato (Upper Manual) ⑦

This exclusive Yamaha effect lets you play with the same emotion in your fingers as a violinist. When the middle lever shown in the photograph is pressed, the lateral vibration of the finger on the key is transmitted as a warm vibrato. What's more, this key is continuously variable, so that you can adjust

Upper Percussive ⑳ ㉑ ㉒

Changing the beginning of some or all notes can do wonders for lively selections. The YC-25D really shines here, thanks to a variety of percussive effects. The special popping 4' and/or 2-2/3' percussive drive can be smoothly blended into all upper tones with two variable levers : ㉑ and ㉒ , plus

Bright (Upper, Lower) ㉓ ㉔

On the upper manual this effect covers all the white keys (16' to 1'), and on the lower manual from 16' to 2'. Each

Bass Sustain ㉕

This control provide continuous adjustment of the sustain effect on the Bass concerned. For the Bass, this is the

plicity. Its depth is controlled by this lever.

pulled down.

this effect's intensity to suit any mood, matching vibrato nuances to any selection or passage. This effect is particularly dramatic when used with a single voice forms the melodic line. It can be used in conjunction with the vibrato lever, but if that lever is set to full it will override the Touch Vibrato.

a separate one ㉕ to control the decay length of these effects. Each note should be played cleanly ; slurred notes will diminish the percussive effect. If a second note is pressed while the first is still held down, the percussive effect will be lost.

lever is continually variable to provide a hard string-like tonal balance or any shade down to a soft flute-like effect.

only sustain control, and it affects all Bass tones with the exception of Bass Guitar with sustains automatically.

4. EFFECT CONTROLS ④

Pitch Control ②

This control allows you to vary the pitch as much as 20 cents above and 3.5 cents below standard (indicated by · mark). Use

it to "tune" the YC-25D to other instruments.

Master Volume ④

This knob determines the YC-25D's maximum volume with the expression pedal fully depressed. Use it to control the

expression pedal's volume range.

Manual Balance ③

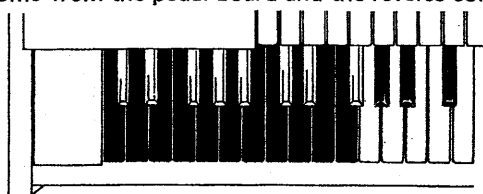
Governs the relative strength of upper and lower manuals. This control is normally left in the center position, but can be used to strengthen one manual. It can serve to accentuate an

upper manual melody in relation to lower manual accompaniment (turn to the right), or lower manual tones (turn to the left).

Bass Changeover Switch (Manual/Pedal) ①

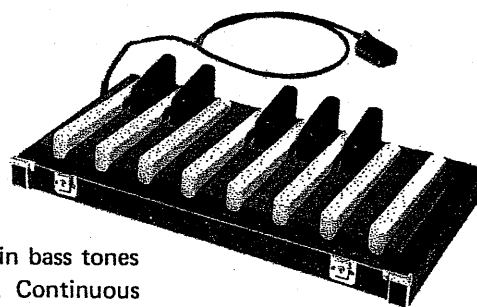
When set to Manual, bass tones will come from the C-f# keys on the lower manual. When set to Bass, bass tones will come from the pedal-board and the reverse color lower manual

keys will serve as a 19-note extension of that manual. Bass pedalboard (Model BP-1) is available as an optional accessory.

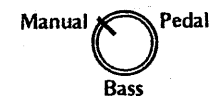


Bass Volume ③

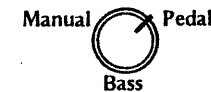
The maximum setting of this control will result in bass tones ten times louder than when it is set at minimum. Continuous adjustment possible.



BP-1



Reversed color manual keys become bass section (pedals do not function even if connected).



Pedals become bass section (reversed color manual keys become extension of lower manual).

5. EFFECT SELECTORS ①

Touch Mute ③③

Works like touch vibrato on all upper manual keys. Instead of changing the volume of the note, as touch vibrato does, touch

mute translates the lateral vibration of the fingers into a change in tone color.

Attack Glide ③④

When this selector is set all upper manual notes sound slightly lower (approximately 90 cents) than their true pitch when the key is pressed, then return to true pitch within

approximately one second. To use this effect, be sure to play each note cleanly ; if a key is depressed before the one before it is released, there will be no glide on that note.

6. OTHER CONTROLS

Power Switch with Pilot Lamp ①

It incorporates a pilot lamp for quick-glance verification of whether the power has been switched on or off.

Expression Pedal ④

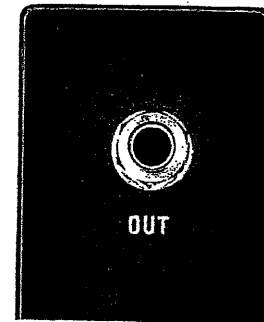
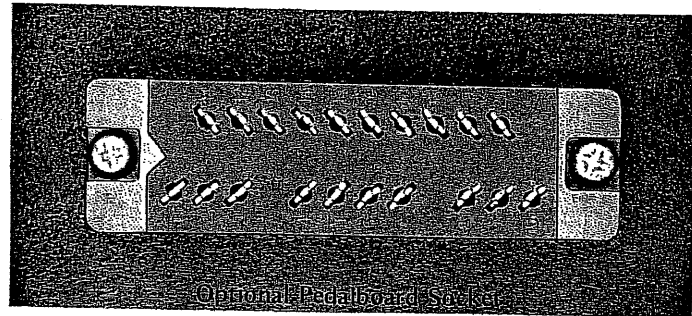
Depress it to increase the volume while playing.

Optional Pedalboard Socket

Please connect the cable from pedal keyboard unit to "optional pedalboard socket" to control the bass tone with pedal keyboard. Be sure to set Bass Changeover Switch for "PEDAL".

Output Jack

Feeds the signal to your amplifier system.



Output Jack

CARE OF YOUR YAMAHA COMBO ORGAN

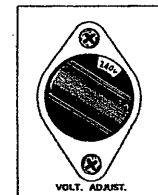
In general, you should treat your Combo Organ with the same care you would give any fine musical instrument. However the following points are suggested to assure optimum enjoyment.

1. When you have finished playing, be sure to turn off the power switch.
2. In order to clean manual keys, tabs, etc., use a damp cloth. Never apply household cleaners or solvents such as alcohol, as they may damage the plastic materials used.
3. If your Yamaha Combo Organ becomes inoperative or does not function properly, first follow this simple step-by-step check list before calling for service.
 - (1) Make certain that the line cord is plugged into a live AC outlet. Make sure the wall receptacle is not faulty. (Hum from the speaker may be reduced by reversing the line cord plug in the wall outlet.)
 - (2) Be sure the "ON-OFF" Power Switch is on. Pilot Lamp will light to indicate this.
 - (3) Check the input cord for loose connections or shorts.
 - (4) Make sure the master volume control is turned up at least part way and that the swell shoe is firmly attached and depressed. At least one tone volume lever must be on, and the balance lever set to favor that section of voices.
4. If, after checking the above points, the instrument still seems to be out of order, contact your Yamaha Service Agent. The Yamaha Combo Organ uses IC's and other solid state devices so, do not attempt to touch or otherwise interfere with the circuits or internal elements of this instrument.

CAUTION VOLTAGE ADJUST

Before you plug in the AC supply, please check that the voltage selector is set to your local current. If not properly set, pull out the socket and reinsert it to the correct voltage position.

Voltage settings: 100, 110, 117, 125, 220, 240 V
Models for the U.S., Canada, England and North Europe are properly preset before shipment.



SPECIFICATIONS

KEYBOARDS

Upper Manual	49 keys (c ~ c4)
Lower Manual	49 keys (C ~ c3)
Manual Bass	19 keys (C1 ~ F#)
Pedal Bass	13 keys (C1 ~ C)

TONE LEVERS

Upper Manual	16', 8', 4', 2 ² / ₃ ', 2', 1. ³ / ₅ ', 1'
	Trombone 16'
	Kinura 16'
	Trumpet 8'
	String 4'
Lower Manual	16', 8', 4', 2 ² / ₃ ', 2'
Manual/Pedal Bass	Bass 16'
	Bass 8'
	Bass Guitar

EFFECT LEVERS

Upper & Lower	Vibrato
	Vibrato Speed
Upper	Touch Vibrato
	Bright
	Percussive Length
	Percussive 4'
	Percussive 2 ² / ₃ '
Lower	Bright
Bass	Bass Sustain

EFFECT SELECTORS

Upper Manual	Touch Mute
	Attack Glide

OTHER CONTROLS

Bass Changeover Switch (Manual/Pedal)
Pitch Control
Bass Volume Control
Master Volume Control
Manual Balance Control

OTHER FITTINGS

Power Switch with Pilot Lamp
Expression Pedal
Optional Pedalboard Socket
Output Jack

CIRCUITRY

Solid State (incl. ICs)

POWER CONSUMPTION

15 Watts

DIMENSIONS (WxHxD)

101 x 97 x 62cm (40 x 38 x 24")

WEIGHT (with legs)

43 kg (95 lbs.)

FINISH

Red, or American Walnut with
Grey Leatherette Siding

OPTIONAL ACCESSORY

Bass Pedalboard (BP-1)

FOR THE BRITISH STANDARD MODELS

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 \equiv 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 L or coloured RED.

IMPORTANT:

The wires in the mains lead are coloured in accordance with the following code.

GREEN-and-YELLOW Earth
BLUE Neutral
BROWN Live

WARNING:

This apparatus must be earthed.

Specifications subject to change without notice.