

YAMAHA

Personal Electronic Piano

YFP-70

Owner's Manual

Bedienungsanleitung

Manuel d'instructions

Manual del Propietario

IMPORTANT

Check your power supply

Make sure that your local AC mains voltage matches the voltage specified on the name plate on the bottom panel. In some areas a voltage selector may be provided on the rear panel of the main keyboard unit. Make sure that the voltage selector is set for the voltage in your area.

WICHTIG

Überprüfung der Stromversorgung

Sicherstellen, daß die örtliche Netzspannung den Betriebsspannungswerten entspricht, die in die Plakette auf der Unterseite des Keyboards eingetragen sind. Für manche Bestimmungsländer ist das Keyboard mit einem Spannungswähler auf der Rückseite ausgerüstet. Darauf achten, daß der Spannungswähler auf die örtliche Netzspannung eingestellt ist.

IMPORTANT

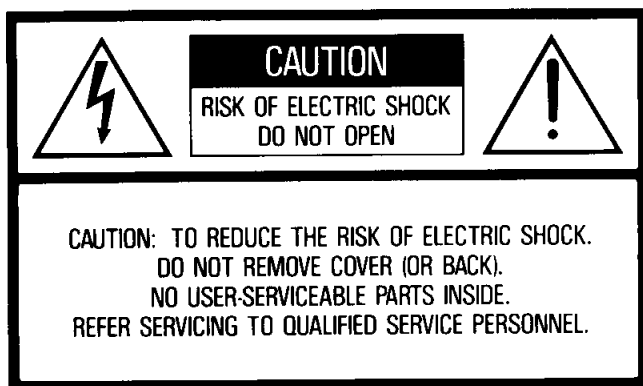
Vérifier la source d'alimentation

S'assurer que la tension secteur locale correspond à la tension indiquée sur la plaque d'identification située sur le panneau inférieur. Les modèles destinés à certaines régions peuvent être équipés d'un sélecteur de tension situé sur la plaque d'identification, sur le panneau arrière du clavier. Vérifier que le sélecteur est bien réglé pour la tension secteur utilisée.

IMPORTANTE

Verifique la alimentación de corriente

Asegúrese de que el voltaje local de CA concuerde con el especificado en la placa de identificación del panel inferior. En algunas áreas, la unidad viene provista de un selector de voltaje en el panel posterior de la unidad de teclado principal. Asegúrese de que este selector esté en la posición correspondiente al voltaje de su área.



See bottom of keyboard enclosure for graphic symbol markings

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



IMPORTANT SAFETY AND INSTALLATION INSTRUCTIONS

INFORMATION RELATING TO POSSIBLE PERSONAL INJURY, ELECTRIC SHOCK, AND FIRE HAZARD POSSIBILITIES HAS BEEN INCLUDED IN THIS LIST.

WARNING—When using electronic products, basic precautions should always be followed, including the following:

1. Read all Safety and Installation Instructions, Explanation of Graphical Symbols, and assembly instructions (where applicable) BEFORE using your Yamaha electronic product. Check unit weight specifications before you attempt to move this instrument!

2. Main Power Supply Verification: Your Yamaha electronic product has been manufactured specifically for the main supply voltage used in your area. If you should move, or if any doubt exists, please contact your dealer for instructions. The main supply voltage required by your electronic product is printed on the name plate. For name plate location, see "TAKING CARE OF YOUR PERSONAL ELECTRONIC PIANO" item.

3. This product may be equipped with a polarized line plug (one blade wider than the other). If you are unable to insert the plug into the outlet, contact an electrician to have your obsolete outlet replaced. Do NOT defeat the safety purpose of the plug. Yamaha products not having polarized plugs incorporate construction methods and designs that do not require line plug polarization.

4. **WARNING**—Do NOT place objects on your electronic product's power cord or place the unit in a position where anyone could trip over, walk over, or roll anything over cords of any kind. Do NOT allow your electronic product or its bench to rest on or be installed over cords of any type. Improper installations of this type create the possibility of a fire hazard and/or personal injury.

5. Environment: Your electronic product should be installed away from heat sources such as a radiator, heat registers and/or other products that produce heat. Additionally, the unit should not be located in a position that exposes the cabinet to direct sunlight, or air currents having high humidity or heat levels.

6. Your Yamaha electronic product should be placed so that its location or position does not interfere with its proper ventilation.

7. Some Yamaha electronic products may have benches that are either a part of the product or supplied as an optional accessory. Some of these benches are designed to be dealer assembled. Please make sure that the bench is stable before using it. The bench supplied by Yamaha was designed for seating only. No other uses are recommended.

8. Some Yamaha electronic products can be made to operate with or without the side panels or other components that constitute a stand. These products should be used only with the components supplied or a cart or stand that is recommended by the manufacturer.

9. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

10. Do not use your Yamaha electronic product near water or in wet environments. For example, near a swimming pool, spa, or in a wet basement.

11. Care should be taken so that objects do not fall, and liquids are not spilled, into the enclosure through openings.

12. Your Yamaha electronic product should be serviced by a qualified service person when:

- a. The power-supply cord or plug has been damaged; or
- b. Objects have fallen, or liquid has been spilled into the product; or
- c. The product has been exposed to rain; or
- d. The product does not operate, exhibits a marked change in performance; or
- e. The product has been dropped, or the enclosure of the product has been damaged.

13. When not in use, always turn your Yamaha electronic product "OFF". The power-supply cord of the product should be unplugged from the outlet when it is to be left unused for a long period of time. Notes: In this case, some units may lose some user programmed data. Factory programmed memories will not be affected.

14. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

15. Electromagnetic Interference (RFI). This series of Yamaha electronic products utilizes digital (high frequency pulse) technology that may adversely affect Radio/TV reception or the operation of other devices that utilize digital technology. Please read FCC Information (Page 66) for additional information.

PLEASE KEEP THIS MANUAL FOR FUTURE REFERENCE!

INTRODUCTION

Thank you for choosing a Yamaha YFP-70 Personal Electronic Piano. Your Personal Electronic Piano is a fine musical instrument that employs advanced Yamaha music technology. With the proper care, it will give you many years of musical pleasure.

- Yamaha's sophisticated AWM (Advanced Wave Memory) tone generator system offers rich, realistic reproductions of digitally sampled keyboard sounds.
- 16-note polyphony permits use of most standard playing techniques.
- Piano-like touch response provides extensive expressive control and outstanding playability.
- A range of exciting rhythms and advanced automatic accompaniment features provide accompaniment while you play.

- A Solo Styleplay function automatically adds harmony and arpeggios to melodies you play on the keyboard.
- Performance Memory function records and plays back your keyboard performances — and you can play along on the keyboard as the recorded performance plays back!
- MIDI compatibility and a range of MIDI functions make the Personal Electronic Piano useful in a range of advanced MIDI music systems.

In order to make the most of your Personal Electronic Piano's performance potential and features, we urge you to read this Owner's Manual thoroughly, and keep it in a safe place for later reference.

VORWORT

Herzlichen Dank für den Kauf des Yamaha Personal Electronic Pianos YFP-70. Ihr Personal Electronic Piano ist ein vielseitiges Keyboard, das mit modernster Yamaha Musiktechnologie arbeitet. Bei umsichtiger Handhabung wird es Ihnen über viele Jahre höchsten Musikgenuß bieten.

- Das integrierte Yamaha AWM-Tongeneratorsystem erzeugt klangvolle, natürlich klingende Stimmen auf der Basis von digital aufgezeichneten Keyboard-Samples.
- Die 16-Noten Polyphonie erlaubt praktisch alle Standard-Spieltechniken.
- Die pianoähnliche Anschlagsdynamik ermöglicht eine nuancenreiche Akzentuierung und sorgt für ein natürliches Spielgefühl.
- Heiße Rhythmen und automatische Begleitfunktionen stellen Ihnen die Begleitband für Ihr Spiel.

- Die Solo-Styleplay-Funktion liefert Ihnen automatisch passende Harmonien und Arpeggios für Ihre Melodien.
- Die PERFORMANCE MEMORY genannte Sequenzerfunktion dient zum Aufzeichnen und Wiedergeben Ihres Spiels - die Wiedergabe kann sogar live begleitet werden.
- Aufgrund der MIDI-Kompatibilität und der umfassenden MIDI-Funktionen kann das Personal Electronic Piano problemlos in komplexe MIDI-Systeme integriert werden.

Um das großartige Potential Ihres Personal Electronic Pianos voll ausschöpfen zu können, sollten Sie sich diese Bedienungsanleitung sorgfältig durchlesen und zur späteren Bezugnahme an einem sicheren Ort aufzubewahren.

INTRODUCTION

Nous vous remercions d'avoir porté votre choix sur le Piano Electronique Personnel Yamaha YFP-70. Ce Piano Electronique Personnel est un instrument de musique perfectionné faisant appel aux innovations les plus récentes de la technologie musicale mise au point par Yamaha. Si vous l'utilisez avec le soin qui convient, il vous donnera de grandes satisfactions musicales pendant de longues années.

- Le système générateur de son AWM (de l'anglais Advanced Wave Memory ou Mémoire d'onde perfectionnée) offre une reproduction à la fois riche et réaliste de sonorités de clavier échantillonnées numériquement.
- Une polyphonie à 16 notes permet d'utiliser les techniques de jeu les plus classiques.
- Une réponse au toucher similaire à celle d'un piano vous permet un plus grand contrôle de l'expression et vous offre de remarquables possibilités d'exécution.

- Un grand choix de rythmes et d'accompagnements automatiques raffinés ajoutent de l'ampleur à vos interprétations.
- La fonction d'exécution en solo ajoute automatiquement la ligne harmonique et les arpèges aux mélodies que vous jouez sur le clavier.
- La fonction de mémoire de performance vous permet d'enregistrer et de reproduire vos propres exécutions, et de jouer pendant la reproduction de votre enregistrement.
- La compatibilité MIDI et une gamme étendue de fonctions MIDI permettent d'utiliser le Piano Electronique Personnel dans une grande variété de systèmes musicaux MIDI.

Afin d'obtenir le maximum des fonctions et du potentiel d'exécution offerts par le Piano Electronique Personnel, nous vous conseillons de lire attentivement ce manuel et de le conserver en lieu sûr pour toute référence future.

INTRODUCCION

Muchas gracias por comprar un Piano Electrónico Personal YFP-70 de Yamaha. Su Piano Electrónico Personal es un buen instrumento musical que emplea la avanzada tecnología musical de Yamaha. Con un cuidado apropiado, le dará muchos años de placer musical.

- El sistema del generador de tonos AWM (Memoria de Ondas Avanzada) sofisticado de Yamaha ofrece unas reproducciones ricas y reales de los sonidos de teclado muestreados digitalmente.
- Polifonía de 16 notas que permiten el uso de las técnicas de interpretación más estándar.
- Respuesta de pulsación como un piano acústico que proporciona un gran control expresivo y una excelente capacidad de interpretación.
- Una gama de emocionantes ritmos y avanzadas características de acompañamiento proporcionan el acompañamiento mientras usted toca.

- Una función de interpretación de solos añade automáticamente armonía y arpegios a las melodías que usted toca en el teclado.
- Realiza grabaciones con la función de memoria de interpretaciones y reproduce sus interpretaciones en el teclado - ¡y usted puede tocar en el teclado a la vez que se reproducen sus interpretaciones grabadas!
- Compatibilidad MIDI y un margen de funciones MIDI que hacen al Piano Electrónico Personal útil en un margen de sistemas musicales MIDI avanzados.

Para poder aprovechar al máximo el potencial de interpretación y características del Piano Electrónico Personal, le aconsejamos leer este manual del propietario completamente, y guárdelo en un lugar seguro para futuras referencias.

CONTENTS

KEYBOARD STAND ASSEMBLY.....	4
TAKING CARE OF YOUR PERSONAL ELECTRONIC PIANO.....	8
THE CONTROLS AND CONNECTORS: BASIC OPERATION.....	8
ENJOY THE DEMONSTRATION.....	10
PLAYING THE PERSONAL ELECTRONIC PIANO.....	11
TRANSPOSITION.....	11
PITCH CONTROL.....	12
USING THE ACCOMPANIMENT SECTION.....	12
Rhythm Accompaniment.....	12
Selecting a Rhythm.....	12
Adjusting the Rhythm Volume.....	12
Setting the Tempo.....	12
Starting the Rhythm.....	13
Adding Fill-ins.....	13
Stopping the Rhythm.....	13
Auto Bass Chord Accompaniment.....	13
SINGLE FINGER ACCOMPANIMENT.....	13
Setting the Accompaniment Volume.....	14
Setting the Tempo.....	14
The Chord Cancel Function.....	14
FINGERED ACCOMPANIMENT.....	14
MANUAL BASS.....	15
SOLO STYLEPLAY.....	15
THE PERFORMANCE MEMORY.....	15
Recording.....	16
Playback.....	16
MIDI FUNCTIONS.....	16
A Brief Introduction to MIDI.....	16
MIDI "Message" Transmitted & Received by the Personal Electronic Piano.....	17
MIDI FUNCTION CHART.....	17
MIDI Transmit & Receive Channel Selection.....	17
Local Control ON/OFF.....	18
Program Change ON/OFF.....	18
Control Change ON/OFF.....	18
The Multi-Timbre Mode.....	18
The Split Send Mode.....	19
MIDI/Internal Clock Select.....	19
Transmitting the Panel Settings.....	20
MIDI Bulk Dump.....	20
MIDI Bulk Receive.....	20
TROUBLESHOOTING.....	20
OPTIONS & EXPANDER MODULES.....	20
MIDI DATA FORMAT.....	21
SPECIFICATIONS.....	64

INHALTSVERZEICHNIS

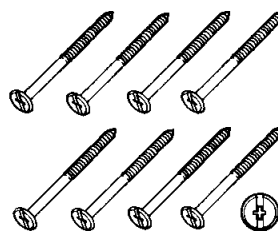
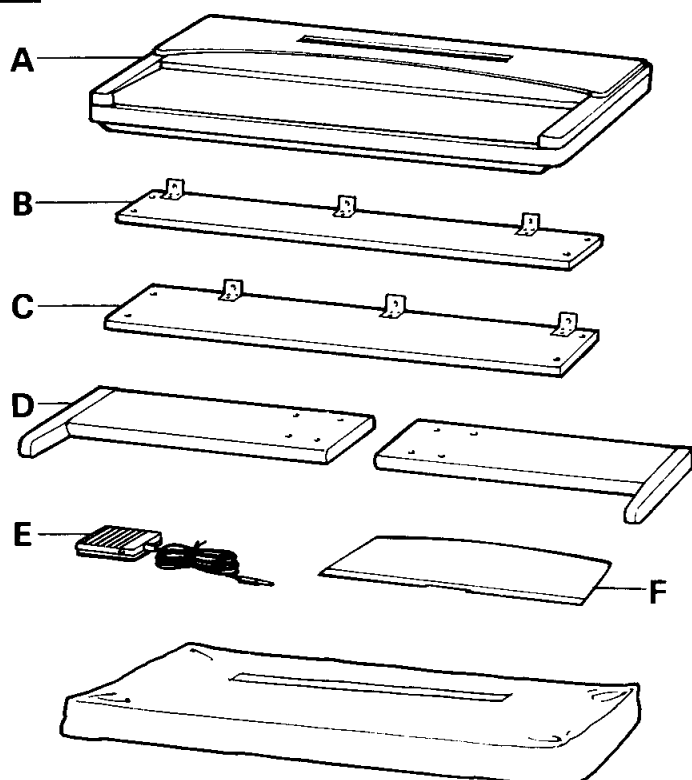
ZUSAMMENBAU DES KEYBOARDSTÄNDERS...	4
VORSICHTSMASSNAHMEN.....	22
BEDIENELEMENTE UND ANSCHLÜSSE: GRUNDLEGENDE BEDIENUNG.....	22
WIEDERGABE DES DEMOSTÜCKS.....	24
SPIELEN AUF DEM PERSONAL ELECTRONIC PIANO.....	25
TRANSPOSITION.....	25
STIMMFUNKTION.....	26
DIE BEGLEITUNGSFUNKTIONEN.....	26
Schlagzeugbegleitung.....	26
Rhythmuswahl.....	26
Einstellen der Begleitungslautstärke.....	26
Tempoeinstellung.....	26
Auslösen der Begleitung.....	27
Einfügen von Fill-ins.....	27
Stoppen der Begleitung.....	27
Die Auto-Baß/Akkordbegleitung.....	27
SINGLE FINGER-Funktion.....	27
Einstellen der Begleitungslautstärke.....	28
Tempoeinstellung.....	28
Die Akkordabschaltfunktion.....	28
FINGERED-Funktion.....	28
MANUAL BASS-Funktion.....	29
SOLO STYLEPLAY-FUNKTION.....	29
PERFORMANCE MEMORY-FUNKTION.....	29
Aufnahme.....	30
Wiedergabe.....	30
MIDI FUNKTIONEN.....	30
Eine Kurze Einführung in MIDI.....	30
Vom Personal Electronic Piano übertragene und empfangene MIDI-Meldungen.....	31
MIDI-FUNKTIONSLISTE.....	31
Wahl des MIDI-Sende/Empfangskanals.....	31
Lokalsteuerung EIN/AUS.....	32
Programmwechsel EIN/AUS.....	32
Steuerelement EIN/AUS.....	32
Die Multi-Timbre-Betriebsart.....	32
Split-Sendemodus.....	33
Wahl zwischen MIDI-/Internem Taktgeber.....	33
Einstelldatenübertragung.....	34
Datenblockabwurf.....	34
MIDI-Datenblockempfang.....	34
STÖRUNGSSUCHE.....	34
SONDERZUBEHÖR UND EXPANDERMODULE.....	34
MIDI-DATENFORMAT.....	35
TECHNISCHE DATEN.....	64

— TABLE DES MATIERES —

ASSEMBLAGE DU SUPPORT DU PIANO.....	5
ENTRETIEN DU PIANO ELECTRONIQUE PERSONNEL.....	36
COMMANDES ET CONNECTEURS: FONCTIONNEMENT DE BASE.....	36
ECOUTE DE LA SEQUENCE DE DEMONSTRATION.....	38
EXECUTION AU PIANO ELECTRONIQUE PERSONNEL.....	39
TRANSPOSITION.....	39
REGLAGE DE LA HAUTEUR TONALE.....	40
UTILISATION DE LA SECTION DE L'ACCOMPAGNEMENT.....	40
Accompagnement de rythme.....	40
<i>Selection d'un rythme.....</i>	40
<i>Reglage de l'intensité sonore du rythme.....</i>	40
<i>Réglage du tempo.....</i>	40
<i>Démarrage du rythme.....</i>	41
<i>Ajout de motif de remplissage.....</i>	41
<i>Arrêt du rythme.....</i>	41
Accompagnement à la basse automatique.....	41
ACCOMPAGNEMENT A UN SEUL DOIGT.....	41
<i>Reglage du volume sonore de l'accompagnement.....</i>	42
<i>Réglage du tempo.....</i>	42
<i>La fonction d'annulation d'accord.....</i>	42
ACCOMPAGNEMENT A PLUSIEURS DOIGTS.....	42
BASSE MANUELLE.....	43
LECTURE EN SOLO PERSONNALISEE.....	43
MEMOIRE DE PERFORMANCE.....	43
<i>Enregistrement.....</i>	44
<i>Reproduction.....</i>	44
FONCTIONS MIDI.....	44
<i>Quelques mots sur l'interface MIDI.....</i>	44
<i>"Messages" MIDI transmis et reçus par le Piano Electronique Personnel.....</i>	45
TABLEAU DES FONCTIONS MIDI.....	45
<i>Sélection des canaux MIDI de transmission et de réception.....</i>	45
<i>Commande locale ON/OFF.....</i>	46
<i>Changement de programme ON/OFF.....</i>	46
<i>Changement de commande ON/OFF.....</i>	46
<i>Mode multi-timbre.....</i>	46
<i>Mode d'envoi séparé.....</i>	47
<i>Sélection d'horloge MIDI/interne.....</i>	47
<i>Transmission des réglages du panneau.....</i>	48
<i>Vidage en bloc des données MIDI.....</i>	48
<i>Réception en bloc des données MIDI.....</i>	48
DEPISTAGE DES PANNES.....	48
OPTIONS ET MODULES EXPANSEURS.....	48
FORMAT DES DONNEES MIDI.....	49
SPECIFICATIONS.....	64

— INDICE —

MONTAJE DEL SOPORTE DEL TECLADO.....	5
CUIDADOS DE SU PIANO ELECTRONICO PERSONAL.....	50
CONTROLES Y CONECTORES: OPERACION BASICA.....	50
DISFRUTE DE LA DEMOSTRACION.....	52
TOCANDO EL PIANO ELECTRONICO PERSONAL.....	53
TRANSPOSICION.....	53
CONTROL DEL TONO.....	54
EMPLEO DE LA SECCION DE ACOMPAÑAMIENTO.....	54
Acompañamiento rítmico.....	54
<i>Selección de un ritmo.....</i>	54
<i>Ajuste del volumen de ritmo.....</i>	54
<i>Ajuste del tempo.....</i>	54
<i>Inicio del ritmo.....</i>	55
<i>Adición de rellenos.....</i>	55
<i>Paro del ritmo.....</i>	55
Acompañamiento automático de bajo y acordes.....	55
ACOMPAÑAMIENTO CON UN SOLO DEDO (SINGLE FINGER).....	55
<i>Ajuste del volumen del acompañamiento.....</i>	56
<i>Ajuste del tempo.....</i>	56
<i>Función de cancelación de acordes.....</i>	56
ACOMPAÑAMIENTO DIGITADO (FINGERED).....	56
BAJO MANUAL (MANUAL BASS).....	57
INTERPRETACION DE SOLOS (SOLO STYLEPLAY).....	57
MEMORIA DE INTERPRETACIONES.....	57
<i>Grabación.....</i>	58
<i>Reproducción.....</i>	58
FUNCIONES MIDI.....	58
<i>Una breve introducción a MIDI.....</i>	58
<i>"Mensajes" MIDI transmitidos y recibidos por el Piano Electrónico Personal.....</i>	59
GRAFICO DE FUNCIONES MIDI.....	59
<i>Selección del canal de transmisión y recepción MIDI.....</i>	59
<i>Activación/desactivación de control local.....</i>	60
<i>Activación/desactivación de cambio de programa.....</i>	60
<i>Activación/desactivación de cambio de control.....</i>	60
<i>Modo de timbres múltiples.....</i>	60
<i>El modo de transmisión de división.....</i>	61
<i>Selección del reloj MIDI/interno.....</i>	61
<i>Transmisión de los ajustes del panel.....</i>	62
<i>Vaciado por lotes de datos MIDI.....</i>	62
<i>Recepción en lotes MIDI.....</i>	62
LOCALIZACION Y REPARACION DE AVERIAS.....	62
OPCIONES Y MODULOS EXPANSORES.....	62
FORMATO DE DATOS MIDI.....	63
ESPECIFICACIONES.....	64



- Long bolts × 8
- Lange Schrauben × 8
- Vis longues × 8
- Pernos largos × 8



- Short bolts × 6
- Kurze Schrauben × 6
- Vis courtes × 6
- Pernos cortos × 6



- Joint connectors × 8
- Verbindungsstücke × 8
- Dispositifs d'assemblage × 8
- Conectores de unión × 8



- Bolt covers × 8
- Schraubenköpfe × 8
- Cache-vis × 8
- Cubiertas de perno × 8

- Dust cover
- Abdeckung
- Housse
- Cubierta contra el polvo

KEYBOARD STAND ASSEMBLY

NOTE: Although the YFP-70 keyboard stand can be assembled by a single person, the job is much easier with two people.

1 Open the box and remove all the parts.

On opening the box you should find the parts shown in the illustration. Check to make sure that all the required parts are provided.

2 Invert the main unit (A).

When main unit (A) is removed from the box, place it upside-down on a soft, non-abrasive surface such as a clean rug or blanket to prevent scratches to the finish. This inverted position makes it easier to attach the assembled keyboard stand later on.

3 Attach the side panels (D) to the front (B) and rear (C) panels.

Begin by installing the joint connectors in the front (B) and rear (C) panels as shown in the illustration. The front and rear panels (the rear panel is the wider one) are attached between the side panels (D) using two long bolts at each end. The sides of the side panels (D) with the recesses at the top face inwards; the direction in which the feet extend from the side panels is the "front" (the direction the keyboard faces). The metal brackets on the front (B) and rear (C) panels face upwards and inwards. Attach the first panel loosely so that the second panel slides into position easily, then attach the second panel and finally tighten all eight bolts. When the assembly is complete and the bolts are securely tightened, snap the eight plastic bolt covers into place over the bolt heads.

- When installing the joint connectors in the holes in the panels, make sure that the arrows printed on their upper surface face in the direction shown in the illustration.

ZUSAMMENBAU DES KEYBOARDSTÄNDERS

HINWEIS: Obwohl der Keyboardständer des YFP-70 durchaus von einer Person alleine montiert werden kann, empfiehlt es sich, den Zusammenbau zu zweit vorzunehmen.

1 Den Versandkarton öffnen und alle Teile auspacken.

Der Versandkarton sollte alle abgebildeten Teile enthalten. Sicherstellen, daß alle benötigten Teile vorhanden sind.

2 Das Keyboard (A) umdrehen.

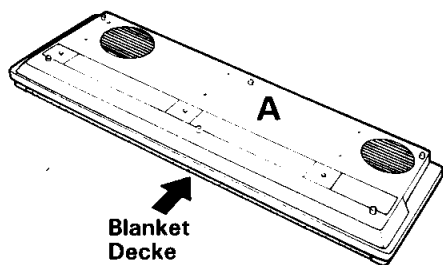
Das Keyboard (A) aus dem Versandkarton heben und umgedreht auf eine weiche, nicht kratzende Unterlage wie z. B. auf einen sauberen Teppich oder eine Decke ablegen. In der umgedrehten Stellung läßt sich der Keyboardständer leichter anbringen.

3 Die Standbeine (D) mit der vorderen (B) und hinteren Verbindungsstrebe (C) verschrauben.

Zunächst die Verbindungsstücke entsprechend der Abbildung in die vordere (B) und hintere Verbindungsstrebe (C) einsetzen. Die zwei Verbindungsstreben (die hintere ist breiter) werden an beiden Seiten jeweils mit zwei langen Schrauben an die Standbeine (D) angeschraubt. Die Aussparungen oben an den Standbeinen (D) müssen nach innen weisen; die Seite mit den Füßen, ist die Seite für die Klaviatur. Die Metallhalterungen an der vorderen (B) und hinteren Verbindungsstrebe (C) liegen auf der Innenseite und zeigen nach oben. Die erste Verbindungsstrebe zunächst nur locker verschrauben, damit die zweite Verbindungsstrebe leichter eingepaßt und montiert werden kann. Danach alle acht Schrauben festziehen und zum Abschluß die acht Plastikköpfe auf die Schraubenköpfe aufsetzen.

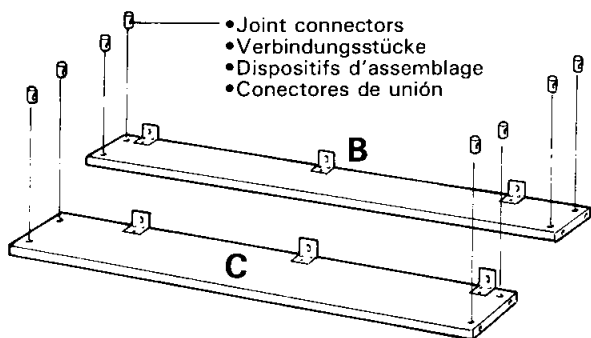
- Beim Einsetzen der Verbindungsstücke in die Löcher der Verbindungsstreben sicherstellen, daß die Pfeilmarkierungen auf der Oberfläche in die gleiche Richtung wie in der Abbildung weisen.

2

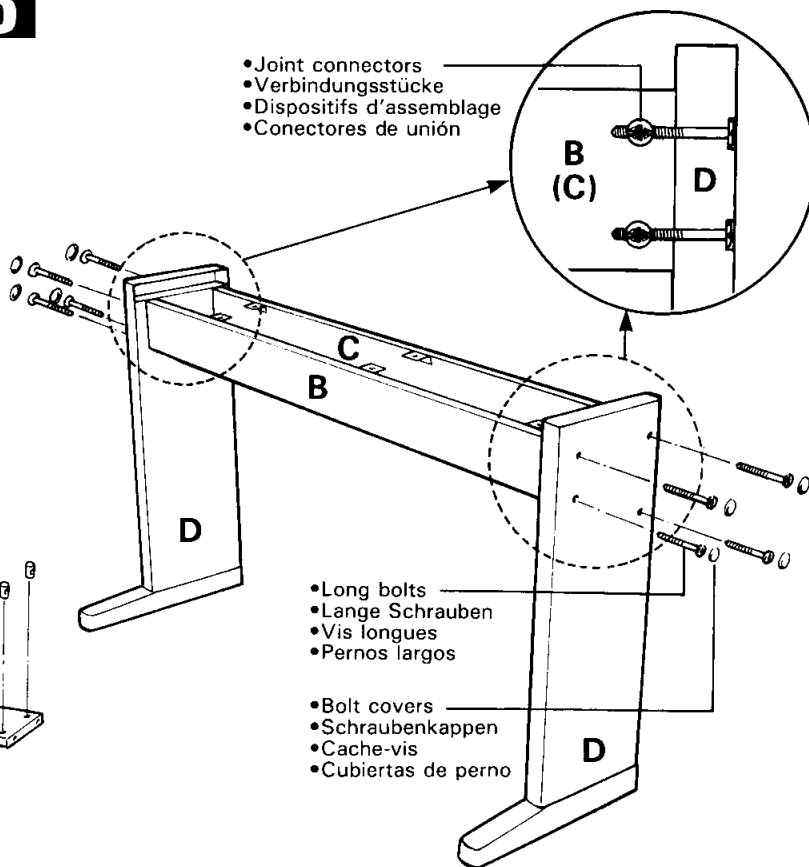


Blanket
Decke
Couverture
Manta

3



• Joint connectors
• Verbindungsstücke
• Dispositifs d'assemblage
• Conectores de unión



• Joint connectors
• Verbindungsstücke
• Dispositifs d'assemblage
• Conectores de unión

• Long bolts
• Lange Schrauben
• Vis longues
• Pernos largos

• Bolt covers
• Schraubenkappen
• Cache-vis
• Cubiertas de perno

ASSEMBLAGE DU SUPPORT DU PIANO

REMARQUE: Bien qu'une personne seule puisse assembler le support du Piano Electronique Personnel, nous vous conseillons de le faire à deux car le travail en est d'autant facilité.

1 Ouvrir le carton et retirer toutes les pièces

Les pièces indiquées sur l'illustration devraient toutes se trouver dans le carton. Vérifier qu'il n'en manque aucune.

2 Mettre le piano (A) à l'envers

Lorsque le piano (A) est sorti du carton, le placer à l'envers sur une surface douce, non rugueuse, comme par exemple un tapis ou une couverture, afin de ne pas abîmer la finition. De plus, avec le piano dans cette position, il sera plus facile par la suite d'y fixer le support assemblé.

3 Fixer les panneaux latéraux (D) aux panneaux avant (B) et arrière (C)

Commencer par poser les dispositifs d'assemblage sur le panneau avant (B) et sur le panneau arrière (C) de la manière illustrée. Le panneau avant et le panneau arrière (le panneau arrière est le plus large), sont fixés entre les panneaux latéraux (D) à l'aide de deux vis longues à chacune des extrémités. Le côté des panneaux latéraux (D) ayant une partie en creux au sommet doit être dirigé vers l'intérieur; le côté où se trouve les pieds est le devant (le côté du clavier). Les ferrures métalliques sur le panneau avant (B) et sur le panneau arrière (C) doivent être dirigées vers le haut et vers l'intérieur. Fixer le premier panneau sans le serrer, afin que le second puisse glisser facilement en place, puis fixer le second panneau et serrer ensuite les huit vis. Lorsque l'assemblage est terminé et que les vis sont serrées à fond, poser les huis caches en plastique sur la tête des vis.

• Lors de la pose des dispositifs d'assemblage dans les trous des panneaux, veiller à diriger les flèches peintes sur leur surface supérieure dans le sens indiqué sur l'illustration.

MONTAJE DEL SOPORTE DEL TECLADO

NOTA: Aunque el soporte del teclado YFP-70 puede montarlo sólo una persona, el trabajo es muchos más fácil entre dos personas.

1 Abra la caja y extraiga todas las partes.

Al abrir la caja debe buscar las partes mostradas en la ilustración. Compruebe para asegurarse de que todas las partes requeridas se han suministrado.

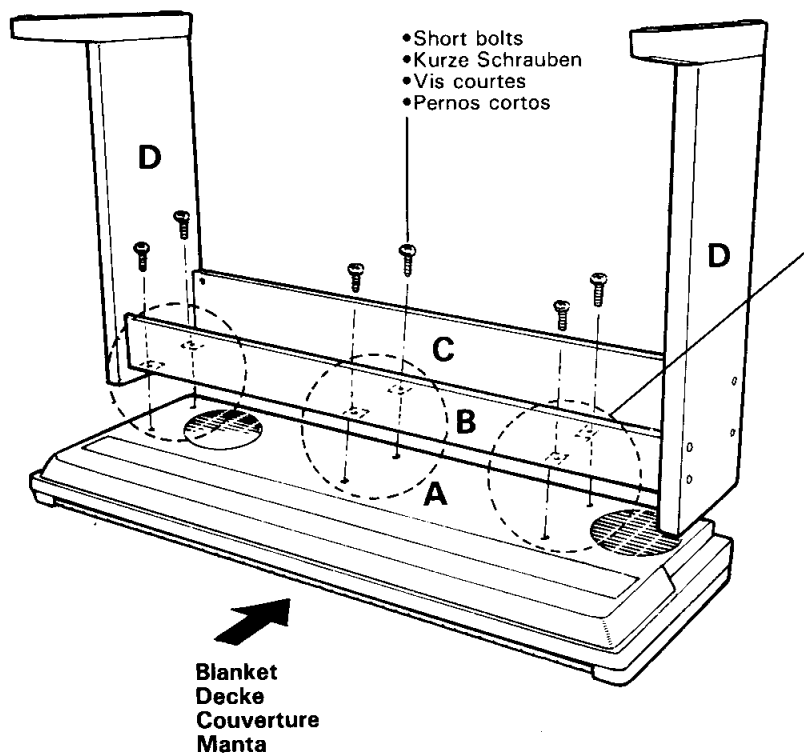
2 Dele la vuelta a la unidad principal (A)

Cuando se extraiga de la caja la unidad principal (A), colóquela al revés en una superficie blanda y no abrasiva, tal como una manta para evitar que se raye el acabado. Esta posición al revés hace más fácil la unión del soporte del teclado montado más tarde.

3 Una los paneles laterales (D) a los paneles frontal (B) y posterior (C)

Empiece instalando los conectores de unión de los paneles frontal (B) y posterior (C) como se muestra en la ilustración. Los paneles frontal y posterior (el panel posterior es el ancho) se unen entre los paneles laterales (D) usando dos pernos largos en cada extremo. Los lados de los paneles laterales (D) con las partes adentradas de la parte superior se encaran hacia dentro; la dirección en la cual las patas se extienden desde los paneles laterales es la parte "frontal" (la dirección en la que se encara el teclado). Las ménsulas de metal de los paneles frontal (B) y posterior (C) se encaran hacia arriba y hacia dentro. Una el primer panel un poco flojo de forma que el segundo panel se deslice fácilmente a su posición, luego una el segundo panel y finalmente apriete los ocho pernos. Cuando el montaje esté completo y los pernos estén bien apretados, fije las ocho cubiertas del perno de plástico en su lugar sobre las cabezas de los pernos.

• Cuando instale los conectores de unión en los orificios de los paneles, asegúrese de que las flechas impresas en sus superficies superiores están encarradas en la dirección mostrada en la ilustración.



- If the holes in the metal brackets on the front (B) and rear (C) panels do not line up properly with the screw holes in the main unit (A), loosen the long bolts connecting the side panels (D) to the front and rear panels, align the holes, screw in the short bolts firmly, then re-tighten the side-panel long bolts.
- Falls die Löcher in den Metallhalterungen der vorderen (B) und hinteren (C) Verbindungsstrebe nicht mit den Schraubenlöchern im Keyboard (A) fluchten, die langen Schrauben, die die Standbeine (D) an den Verbindungsstreben halten, etwas lösen und die Löcher fluchten. Dann die kurzen Schrauben fest hineindrehen und anschließend die langen Schrauben wieder festziehen.
- Si les orifices des ferrures de montage du panneau avant (B) et du panneau arrière (C) ne sont pas alignés correctement sur les orifices de vis du piano (A), desserrer les vis longues fixant les panneaux latéraux (D) aux panneaux avant et arrière, aligner les orifices, serrer à fond les vis courtes et resserrer les vis longues des panneaux latéraux.
- Si los orificios de las ménsula metálicas de los paneles frontal (B) y posterior (C) no se alinean correctamente con los orificios para los tornillos de la unidad principal (A), afloje los pernos largos que conectan los paneles laterales (D) a los paneles frontal y posterior, alinee los orificios, enrosque bien los pernos cortos y vuelva a apretar los pernos largos de los paneles laterales.

4 Attach the stand assembly to the main unit (A).

Turn the assembled stand upside down and place it on top of the main unit (which should also be upside-down) with the feet extending toward the keyboard side of the main unit. The tops of the side panels fit into the recessed areas at the ends of the main unit. Align the holes in the front and rear panel brackets with the holes in the bottom of the main unit, and firmly screw in the six short bolts through the brackets. Finally, turn the entire assembly rightside-up and stand it on its feet.

* Check to make sure that all screws have been securely tightened.

5 Plug in the damper pedal (E).

Plug the supplied FC5 damper pedal cable into the DAMPER jack on the rear panel of the main unit, and place the pedal in a convenient position on the floor below the keyboard.

6 Install the music stand (F).

Insert the bottom (flat) edge of the music stand (F) into the slot on the top of the main unit (A) so that the music stand leans backwards away from the keyboard.

4 Keyboardständer am Keyboard (A) anbringen.

Den zusammengebauten Ständer umdrehen und auf das Keyboard (das ebenso umgedreht ist) plazieren. Die Füße des Ständers müssen sich auf der Seite mit der Klaviatur befinden. Die Oberseiten der Standbeine in die Aussparungen an den Keyboardseiten einpassen. Die Löcher in den Metallhalterungen der vorderen und hinteren Verbindungsstrebe mit den Bohrungen auf der Unterseite des Keyboards ausrichten und die sechs kurzen Schrauben in die Halterungen hineindrehen und festziehen. Zum Abschluß das zusammengebaute Keyboard auf die Füße stellen.

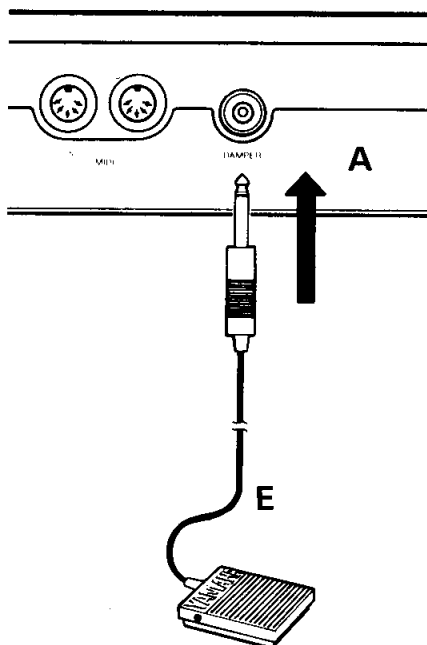
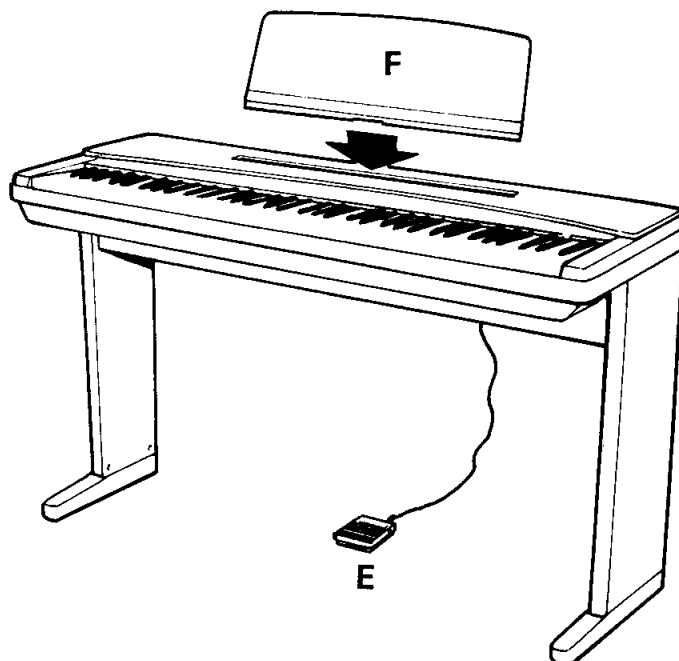
* Sicherstellen, daß alle Schrauben gut festgezogen sind.

5 Das Dämpferpedal (E) anschließen.

Das beiliegende Dämpferpedal FC5 über das an die DAMPER-Buchse anschließen und das Pedal an eine geeignete Stelle unter dem Keyboard plazieren.

6 Den Notenständer (F) anbringen.

Die Unterkante (flach) des Notenständers (F) in den Schlitz oben am Keyboard (A) so einführen, daß der Ständer nach hinten geneigt ist.

5**6****4**

Poser le support sur le piano (A)

Retourner l'ensemble du support et le poser sur le piano (qui doit être aussi à l'envers) avec les pieds placés du côté clavier. La partie supérieure des panneaux vient se placer dans les rainures situées aux deux extrémités du piano. Aligner les trous des ferrures avant et arrière sur les orifices du piano et fixer à l'aide de six vis courtes; serrer les vis à fond. Retourner l'ensemble afin qu'il repose sur les pieds.

* Vérifier que toutes les vis sont serrées à fond.

5

Connecter la pédale d'assourdissement (E)

Connecter le câble de la pédale d'assourdissement FC5 fournie à la prise DAMPER située sur le panneau arrière et placer la pédale sur le sol à un endroit commode.

6

Poser le pupitre (F)

Introduire le bord inférieur (plat) du pupitre (F) dans la rainure située sur le dessus du piano (A) de manière que le pupitre soit incliné vers l'arrière.

4

Una el conjunto del soporte en la unidad principal (A)

Gire el soporte montado al revés y colóquelo en la parte superior de la unidad principal (la que también ha de estar al revés) con las patas extendidas hacia adelante desde el lado del teclado de la unidad principal. Las partes superiores de los paneles laterales se acoplan a las partes entrantes de los extremos de la unidad principal. Alinee los orificios de las ménsulas del panel frontal y posterior con los orificios de la parte inferior de la unidad principal, y enrosque firmemente los seis pernos cortos a través de las ménsulas. Finalmente, vuelva a colocar derecho el conjunto entero y sopórtelo sobre sus patas.

* Compruebe para asegurarse de que todos los tornillos se han apretado bien.

5

Conecte el pedal apagador (E)

Conecte el cable del pedal apagador FC5 suministrado en la toma DAMPER del panel posterior de la unidad principal, y coloque el pedal en una posición conveniente en el suelo debajo del teclado.

6

Instale el atril (F)

Inserte el borde de la parte inferior (plano) del atril (F) en la ranura de la parte superior de la unidad principal (A) de forma que el atril se incline hacia atrás mirando desde el teclado.

TAKING CARE OF YOUR PERSONAL ELECTRONIC PIANO

Your Personal Electronic Piano is a fine musical instrument, and deserves the most careful treatment. Observe the following points and your Personal Electronic Piano will sound and look great for many-years.

1. Never open the case and touch or tamper with the internal circuitry.
2. Always turn the POWER switch OFF after use, and cover the keyboard with the supplied cover.
3. Clean the cabinet and keys of your Personal Electronic Piano only with a clean, slightly damp cloth. A neutral cleanser may be used if desired. Never use abrasive cleansers, waxes, solvents or chemical dust cloths since these can dull or damage the finish.
4. Never place any vinyl products on your Personal Electronic Piano. Contact with vinyl can cause irreversible damage to the finish.
5. Install your Personal Electronic Piano in a place that is away from direct sunlight, excessive humidity or heat.
6. Never apply excessive force to the controls, connectors or other parts of your Personal Electronic Piano, and avoid scratching or bumping it with hard objects.
7. Do not leave heavy objects on the keyboard for an extended length of time.
8. Never spill water, beverages or other liquids on the keyboard or any other part of the Personal Electronic Piano.
9. The YFP-70 contains digital circuitry and may cause interference if placed too close to radio receivers, television sets or similar radio-frequency reception equipment. If such a problem occurs, move the YFP-70 further away from the affected equipment.
10. **IMPORTANT!:** Check your power supply!
Make sure that your local AC mains voltage matches the voltage specified on the name plate on the bottom panel. In some areas a voltage selector may be provided on the rear panel of the main unit. Make sure that the voltage selector is set for the voltage in your area.

• Name Plate Location

The YFP-70 nameplate is located on the bottom panel.

THE CONTROLS AND CONNECTORS: BASIC OPERATION

① POWER Switch

Press the POWER switch once to turn the power ON, a second time to turn the power OFF.

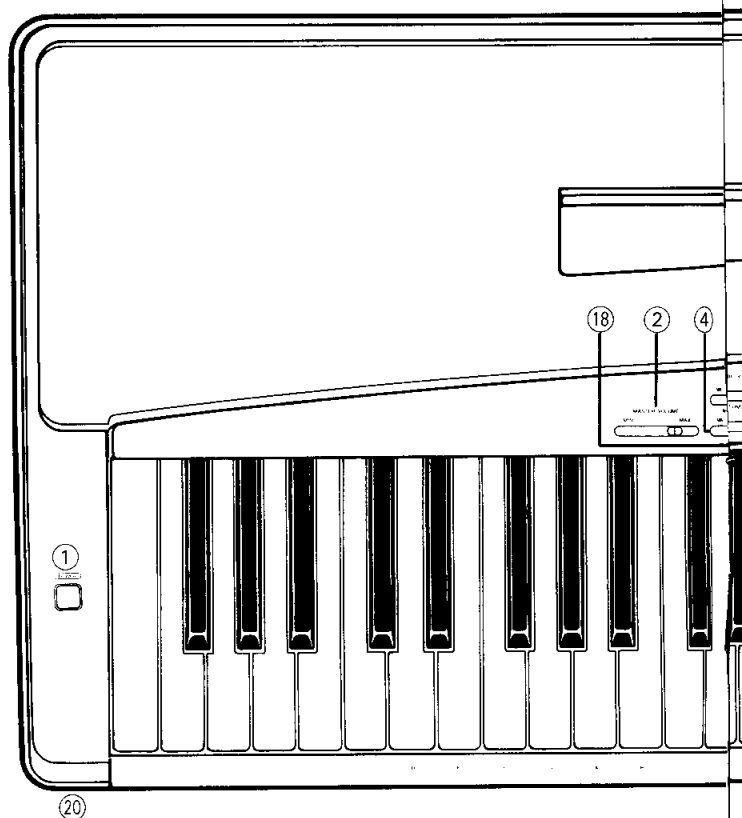
② MASTER VOLUME Control

The MASTER VOLUME control adjusts the volume (level) of sound produced by the Personal Electronic Piano. The MASTER VOLUME control also adjusts headphone volume when a pair of headphones is plugged into the HEADPHONE jack ⑳.

③ ABC VOLUME Control

Adjusts the volume of the Auto Bass Chord sound when one of the ABC features are used. This is a 5-position volume control.

Refer to the "Auto Bass Chord Accompaniment" section on page 13 for details.



④ RHYTHM VOLUME Control

Adjusts the volume of the rhythm sound when one of the rhythm patterns is playing. This is a 5-position volume control.

Refer to the "Rhythm Accompaniment" section on page 12 for details.

⑤ MIDI/TRANPOSE Button

The MIDI/TRANPOSE button allows access to the Personal Electronic Piano's TRANPOSE function (to shift the pitch of the entire keyboard up or down) and MIDI functions.

For details refer to the "TRANSPPOSITION" and "MIDI FUNCTIONS" sections on pages 11 and 16, respectively.

⑥ REVERB Button

The REVERB button provides a number of digital effects that you can use for extra depth and expressive power. Simply press the REVERB button a few times until the indicator corresponding to the desired effect lights.

OFF [All REVERB indicators off]
No effect is produced.

ROOM [ROOM indicator lit]

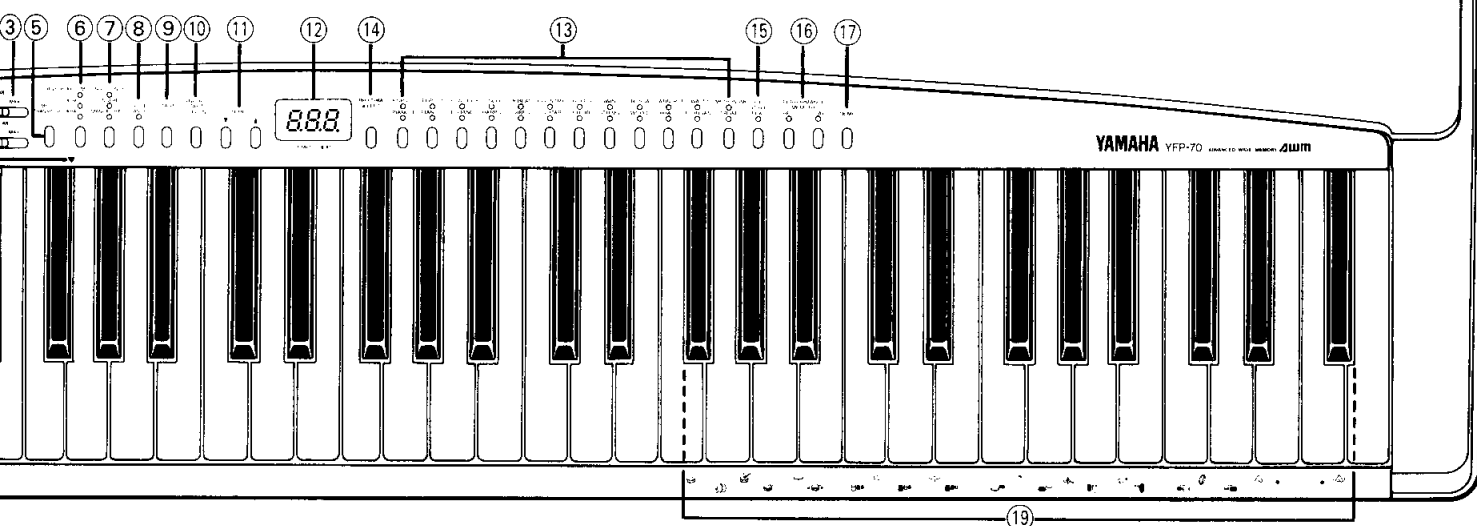
This setting adds a reverb effect to the sound that is similar to the type of acoustic reverberation you would hear in a medium-size room.

HALL 1 [HALL 1 indicator lit]

For a more spacious reverb sound, use the HALL setting. This effect simulates the natural reverberation of a medium-size concert hall.

HALL 2 [HALL 2 indicator lit]

HALL 2 simulates the reverb of a very large concert hall.



⑦ ABC (Auto Bass Chord) Button

This button allows selection of the Personal Electronic Piano SINGLE FINGER and FINGERED automatic accompaniment functions as well as the MANUAL BASS function.

See the "Auto Bass Chord Accompaniment" section beginning on page 13 for details.

⑧ CHORD CANCEL Button

Cancels the chord sound leaving only the rhythm and bass when one of the Auto Bass Chord functions are used.

See the "Auto Bass Chord Accompaniment" section beginning on page 13 for details.

⑨ START/STOP Button

Starts and stops the Personal Electronic Piano's rhythms and Auto Bass Chord accompaniment features.

See the "Rhythm Accompaniment" and "Auto Bass Chord Accompaniment" section on pages 12 and 13 for details.

⑩ SYNCHRO START/FILL IN Button

Activates the "synchro start mode" so that the selected rhythm/accompaniment begins playing automatically as soon as you begin playing on the keyboard. Also can be used to add fill-ins (variations) to rhythms and accompaniment.

See "Starting the Rhythm" and "Adding Fill-ins" on page 13 for details.

⑪ TEMPO ▲ and ▼ Buttons

These buttons adjust the tempo of the Personal Electronic Piano's rhythms and accompaniment.

See "Setting the Tempo" on page 12 for details.

⑫ TEMPO/BEAT Display

This 3-digit LED display shows the currently selected tempo while no rhythm or accompaniment is playing, or the number of the current measure if a rhythm/accompaniment is playing. It also shows transposition, pitch, performance memory, MIDI and demonstration data when the respective functions are used.

⑬ Voice/Rhythm Selectors

⑭ RHYTHM SELECT Button

The YFP-70 has 12 voice selectors. Simply press any of the voice/rhythm selectors to select the corresponding voice. The voice indicator above the selector will light to indicate which voice is currently selected.

To select one of the 12 available rhythms (including the METRONOME), press any of the voice/rhythm selectors while holding the RHYTHM SELECT button. The rhythm indicator above the selector will light to indicate which rhythm is currently selected.

• When the DRUMS "voice" is selected, the 25 keys between F#4 and F#6 are used to play different percussion instruments. See "⑲ Percussion Keys" below.

Note: The PIANO 1 voice and POPS 1 rhythm are automatically selected whenever the POWER switch is initially turned ON.

⑮ SOLO STYLEPLAY Button

Activates the Solo Styleplay function for automatic harmony and arpeggios.

See "SOLO STYLEPLAY" on page 15 for details.

⑯ PERFORMANCE MEMORY REC and PLAY Buttons

These buttons activate the YFP-70 Performance Memory record and playback functions.

Operation of the Performance Memory is described in detail on page 15.

⑰ DEMO Button

Press the DEMO button to hear the YFP-70's pre-programmed demonstration.

Further details are given on page 10.

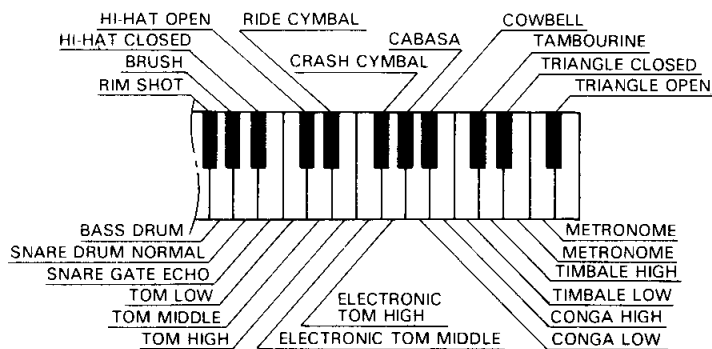
⑱ Keyboard Split Marker

When one of the Auto Bass Chord functions are used, all keys to the left of the keyboard split marker are used to control the automatic accompaniment, or to play a bass voice in the case of the MANUAL BASS mode.

Refer to the "Auto Bass Chord Accompaniment" section for more information.

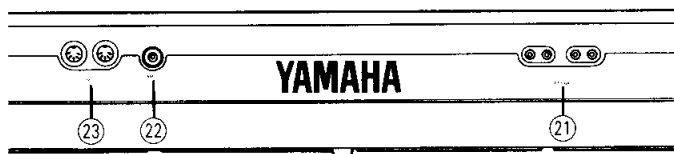
19 Percussion Keys

The keys between F#4 and F#6 on the Personal Electronic Piano can be used to play 24 different percussion instruments when the DRUMS voice is selected.



20 HEADPHONE jack

A standard pair of stereo headphones can be plugged in here for private practice or late-night playing. The internal speaker system is automatically shut off when a pair of headphones is plugged into the HEADPHONE jack.



21 OPTIONAL IN L/R and OUT L/R Jacks

These jacks are intended primarily for use with Yamaha EM-series Expander Modules such as the EME-1 Reverb Box, EMT-1 FM Sound Box, EMT-10 AWM Sound Box and EMR-1 Drum Box. In the case of the EME-1 Reverb Box, for example, the OPTIONAL OUT jacks connect to the EME-1 LINE IN jacks, and the EME-1 LINE OUT jacks connect back to the Personal Electronic Piano OPTIONAL IN jacks. This allows application of a range of high-quality digital effects, including reverb and echo, to the Personal Electronic Piano sound. Refer to the EM-series Expander Module device owner's manual for connection details.

22 DAMPER Jack

The supplied damper pedal (Yamaha FC-5) should be plugged in here. The damper pedal functions in the same way as a damper pedal on an acoustic piano. When the damper pedal is pressed notes played have a long sustain. Releasing the pedal immediately stops (damps) any sustained notes.

Note: The DAMPER pedal does not affect the DRUM voices.

23 MIDI IN and OUT Connectors

The MIDI IN connector receives MIDI data from an external MIDI device (such as the EMQ-1 Memory Box) which can be used to control the Personal Electronic Piano. The MIDI OUT connector transmits MIDI data generated by the Personal Electronic Piano (e.g. note and velocity data produced by playing the Personal Electronic Piano keyboard).

More details on MIDI are given in "MIDI FUNCTIONS" on page 16.

ENJOY THE DEMONSTRATION

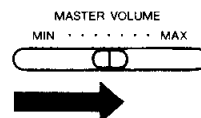
To give you an idea of the YFP-70's sophisticated capabilities, it is programmed with a demonstration sequence which plays automatically while demonstrating some of the instrument's voices and rhythms. Short segments of the following pieces are included:

- 1: An Original composition.
- 2: Piano Sonata No.8 in C minor, Op. 13, 2nd movement "Pathétique", by Beethoven.
- 3: An Original composition.

1. Press the POWER switch to turn the instrument ON.



2. Slide the MASTER VOLUME control to a position about half way towards the "MAX" setting. You can set this control for the most comfortable volume level after playback begins.



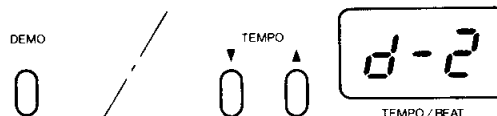
3. The demonstration music will begin playing as soon as you press and release the DEMO button.

The demonstration will play continuously until the DEMO button is pressed a second time or the START/STOP button is pressed.

DEMO



- A specific demonstration tune number (1 — 3) can be selected by using the TEMPO ▲ and ▼ buttons while holding the DEMO button. The selected demonstration number will appear on the TEMPO/BEAT display (the demonstration number is also displayed during playback). Playback begins as soon as the DEMO button is released.



- During DEMO playback only the MASTER VOLUME control has any effect on the sound.

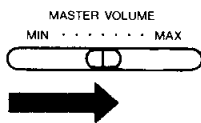
PLAYING THE PERSONAL ELECTRONIC PIANO

After making sure that the Personal Electronic Piano's AC plug is properly inserted into a convenient AC wall outlet, and that the supplied pedal is connected to the DAMPER jack on the rear panel:

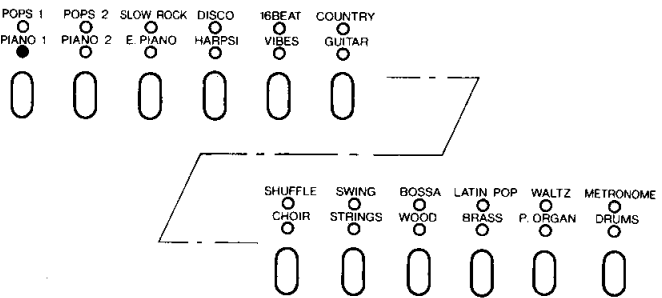
- 1. Press the POWER switch located to the left of the keyboard to turn the power ON. When the power is turned ON, the PIANO 1 voice selector LED will light (the PIANO 1 voice is automatically selected whenever the power is turned ON).



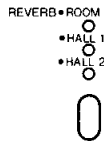
- 2. Initially set the MASTER VOLUME control about half way towards the "MAX" setting. Then, when you start playing, adjust the MASTER VOLUME control for the most comfortable listening level.



- 3. Select the desired voice by pressing one of the voice/rhythm selectors — the corresponding voice indicator will light.



- 4. Select a reverb effect using the REVERB button if desired.



- 5. Play.
- The Personal Electronic Piano features 16-note polyphony, so up to 16 notes can be played on the keyboard simultaneously when the rhythm or automatic accompaniment features of this instrument are not used. These features all reduce the number of available notes. The number of notes used by each feature is shown in the chart below.

Max. Notes Playable on Keyboard	Rhythm	ABC Chords	ABC Bass
16	OFF	OFF	OFF
15	OFF	OFF	ON (1 note)
12	ON (4 notes)	OFF	OFF
11	ON (4 notes)	OFF	ON (1 note)
9	OFF	ON (6 notes)	ON (1 note)
5	ON (4 notes)	ON (6 notes)	ON (1 note)

The Personal Electronic Piano also offers keyboard touch response, so the volume and timbre of notes played can be controlled according to how "hard" you play the keys. The amount of variation available depends on the selected voice.

TRANSPPOSITION

The Personal Electronic Piano's TRANSPOSE function makes it possible to shift the pitch of the entire keyboard up or down in semitone intervals up to six semitones. The pitch of the keyboard can also be shifted down an entire octave. "Transposing" the pitch of the Personal Electronic Piano keyboard makes it easier to play in difficult key signatures, and you can simply match the pitch of the keyboard to the range of a singer or other instrumentalist.

The MIDI/TRANSPOSE button and TEMPO ▲ and ▼ buttons are used for transposition.



- 1. Press and hold the MIDI/TRANSPOSE button.
- 2. Press the TEMPO ▲ or ▼ button as many times as necessary to produce the desired degree of transposition. Each time the TEMPO ▲ or ▼ button is pressed the pitch of the keyboard is transposed by one semitone in the specified direction (i.e. up or down). Pitch can be transposed up by a maximum of six semitones. When transposing down, the ▼ button can be pressed once more after the sixth semitone to shift the pitch down an entire octave.* The amount of transposition selected is shown on the TEMPO/BEAT display — "-3" for example, indicates that the pitch has been transposed down by three semitones.



- 3. Release the MIDI/TRANSPOSE button.
- * Pressing both the TEMPO ▲ and ▼ buttons simultaneously while the MIDI/TRANSPOSE button is held produces normal keyboard pitch.
- Note:** When an ABC mode is selected (SINGLE FINGER, FINGERED or MANUAL BASS), transposing one octave down only affects the pitch of the upper keyboard section (i.e. to the right of the keyboard split marker).

PITCH CONTROL

Pitch control makes it possible to tune the Personal Electronic Piano over a 50-cent range in approximately 3-cent intervals. A hundred "cents" equals one semitone, so the tuning range provided allows fine tuning of overall pitch over a range of approximately a semitone. The selected pitch is shown in Hertz on the TEMPO/BEAT display while the tuning is being adjusted (referenced to the A3 key). Pitch control is useful for tuning the Personal Electronic Piano to match other instruments or recorded music.

Note: Pitch control will not function when any of the ABC features are in use.

Tuning Up

1. To tune up (raise pitch), hold the E0 and F0 keys simultaneously.
2. Press any key between C3 and B3. Each time a key in this range is pressed the pitch is increased by approximately 3 cents, up to a maximum of 50 cents above standard pitch.
3. Release the E0 and F0 keys.

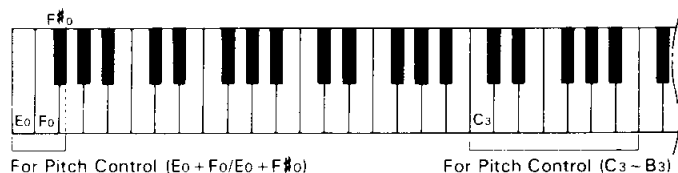
Tuning Down

1. To tune down (lower pitch), hold the E0 and F#0 keys simultaneously.
2. Press any key between C3 and B3. Each time a key in this range is pressed the pitch is decreased by approximately 3 cents, up to a maximum of 50 cents below standard pitch.
3. Release the E0 and F#0 keys.

To Restore Standard Pitch*

1. To restore standard pitch (A3 = 440 Hz), hold the E0, F0 and F#0 keys simultaneously.
2. Press any key between C3 and B3.
3. Release the E0, F0 and F#0 keys.

* Standard pitch (A3 = 440 Hz) is automatically set whenever the POWER switch is initially turned ON.

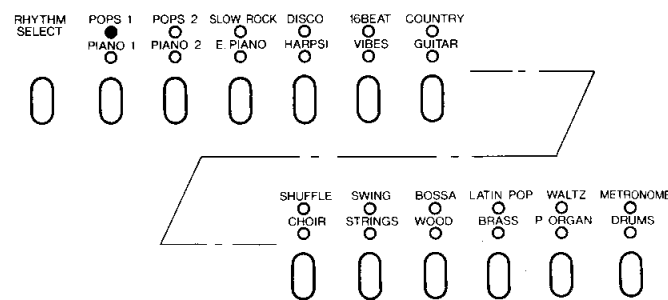


USING THE ACCOMPANIMENT SECTION

Rhythm Accompaniment

Selecting a Rhythm

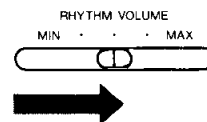
The Personal Electronic Piano provides 12 different accompaniment rhythms (including METRONOME) that can be selected by pressing the appropriate voice/rhythm button while holding the RHYTHM SELECT button. The corresponding rhythm indicator will light.



- When the power is initially turned ON, the POPS 1 rhythm is automatically selected.

Adjusting the Rhythm Volume

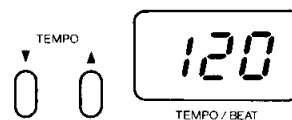
The RHYTHM VOLUME control lets you independently adjust the volume of the rhythm sound, making it possible to set the optimum balance between the rhythm and notes you play on the keyboard.



Setting the Tempo

Press the TEMPO ▲ button to increase the tempo, or the TEMPO ▼ button to decrease the tempo. The selected tempo will be displayed on the TEMPO/BEAT display while no rhythm is playing or while the TEMPO ▲ or ▼ button is pressed if a rhythm is playing.

The available tempo range is from 32 to 280 beats per minute, in the steps shown below. 120 is the "default" tempo value — the tempo is automatically set to 120 whenever the power switch is turned ON. Each rhythm pattern also has an "optimum" tempo which can be recalled at any time by pressing both the TEMPO ▲ and ▼ buttons at the same time.



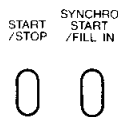
Tempo Values

32	36	40	44	48	52	56	60	64	66	68	70	72	74
76	78	80	82	84	86	88	90	92	94	96	98	100	102
104	106	108	110	112	114	116	118	120	122	124	126	128	132
136	140	144	148	152	156	160	168	176	184	192	200	208	216
224	232	240	248	256	264	272	280						

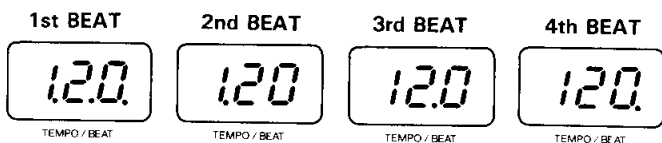
- The tempo can be adjusted before starting rhythm playback or while the rhythm is playing.

Starting the Rhythm

Press the START/STOP button to start the selected rhythm immediately, or press the SYNCHRO START/FILL IN button if you want the accompaniment to start when you play the first note on the keyboard (the lower keyboard section — to the left of the keyboard split marker — if an ABC mode is selected). If you press the SYNCHRO START/FILL IN button, the dots in the TEMPO/BEAT display will flash at the selected tempo. While the rhythm is playing, the total number of measures played is shown on the TEMPO/BEAT display.



- If you have pressed the SYNCHRO START/FILL IN button but haven't started playing yet, the synchro start mode can be canceled by pressing the SYNCHRO START/FILL IN button a second time.
- The three LED dots at the bottom of the TEMPO/BEAT display provide a visual indication of the selected tempo as follows:



If a 3/4 type rhythm is selected the "4th BEAT" shown in the example above does not appear on the display.

- A different rhythm can be selected at any time by holding the RHYTHM SELECT button and pressing one of the voice/rhythm selectors.

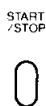
Adding Fill-ins

To add a fill-in (rhythm variation) at any time while the rhythm is playing, press the SYNCHRO START/FILL IN button. The fill-ins have a maximum length of one measure, but the actual length depends on precisely when in the current measure you press the SYNCHRO START/FILL IN button (i.e. the fill-in lasts from the point at which the button is pressed until the end of the current measure). You can stop the fill-in pattern before the end of the current measure by pressing the SYNCHRO START/FILL IN button a second time. If you hold the SYNCHRO START/FILL IN button, the fill-in pattern will repeat until the button is released.



Stopping the Rhythm

Any rhythm pattern that is playing can be stopped immediately by pressing the START/STOP button.



Auto Bass Chord Accompaniment

In addition to rhythm-only accompaniment, the Personal Electronic Piano includes a sophisticated Auto Bass Chord accompaniment system that can provide automated bass and chordal backing in a number of ways.

- The maximum number of notes that can be played simultaneously on the Personal Electronic Piano keyboard is reduced when the Auto Bass Chord feature is used.

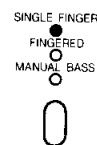
Note: ABC accompaniment can not be engaged if the Multi-Timbre mode is active (see "The Multi-Timbre Mode" on page 18).

SINGLE FINGER ACCOMPANIMENT

SINGLE FINGER accompaniment makes it simple to produce beautifully orchestrated accompaniment using major, seventh, minor and minor-seventh chords by pressing a minimum number of keys in the Auto Bass Chord Keys section of the keyboard (the section of the keyboard to the left of the keyboard split marker). The bass and chord accompaniment produced is perfectly matched to the currently selected rhythm.

1. Select the SINGLE FINGER Mode

Press the Auto Bass Chord selector so that the SINGLE FINGER indicator lights.



2. Select a Rhythm

Select the desired rhythm in the normal way. Although you can select the melody (upper keyboard) voice you intend to use by pressing one of the voice/rhythm selectors, the Personal Electronic Piano automatically determines the voices to be used for the accompaniment bass and chords according to the rhythm you select.

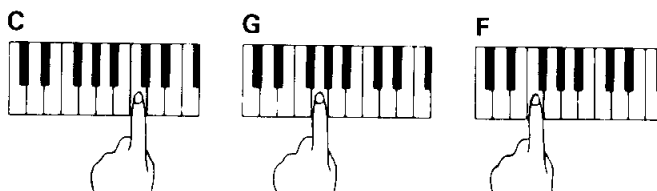
- If you select METRONOME, the actual accompaniment will be a march.

3. Start the Accompaniment

Press the START/STOP button or SYNCHRO START/FILL IN button to determine how the accompaniment will be started. If you press the START/STOP button, the rhythm will begin playing immediately without chordal accompaniment.

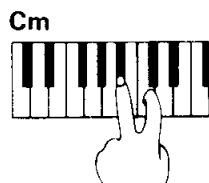
4. Press a Key in the Auto Bass Chord Keys Section

Pressing any keys to the left of the keyboard split marker (i.e. in the Auto Bass Chord section) will cause the automatic chord and bass accompaniment to begin. If you press a "C" key, for example, a C-major accompaniment will be played. Press another key in the Auto Bass Chord Keys section to select a new chord. The key you press will always determine the "root" of the chord played (i.e. "C" for a C chord).

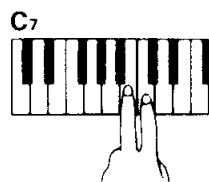


Playing Minor, Seventh, and Minor-seventh Chords in the Single-finger Mode

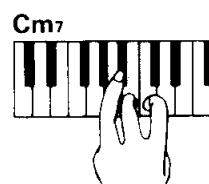
- For a minor chord, press the root key and the first black key to its left.



- For a seventh chord, press the root key and the next white key to its left.



- For a minor-seventh chord, press the root key and both the next white and black keys to its left.



- The automatic accompaniment will continue playing even if you lift your fingers from the Auto Bass Chord keys. You only need to press the Auto Bass Chord keys when changing chords.

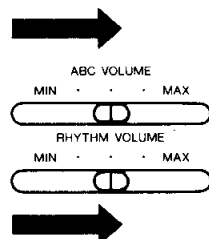
5. Stop the Auto Accompaniment

Press the START/STOP button to stop the Accompaniment.

- The SYNCHRO START/FILL IN button can be used in the Auto Bass Chord mode to create pattern variations in exactly the same way that it is used with rhythm patterns (refer to "Adding Fill-ins" on page 13 for details).

Setting the Accompaniment Volume

Set the volume of the Auto Bass Chord sound using the ABC VOLUME control. The RHYTHM VOLUME control is used to control the volume of the rhythm sound, and the MASTER VOLUME control can be used to set the overall volume level.

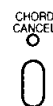


Setting the Tempo

Use the TEMPO controls to set the desired accompaniment tempo (see "Setting the Tempo" on page 12 for details).

The Chord Cancel Function

If you only want rhythm and bass accompaniment without chords, press the CHORD CANCEL button (its indicator will light). To turn the chords back on, press the CHORD CANCEL button again so that its indicator goes out.

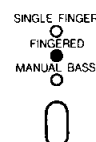


FINGERED ACCOMPANIMENT

The FINGERED mode is ideal if you already know how to play chords on a keyboard, since it allows you to supply your own chords for the Auto Bass Chord feature.

1. Select the FINGERED Mode

Press the Auto Bass Chord button as many times as necessary until the FINGERED indicator lights.



2. Select a Rhythm

Select the desired rhythm in the normal way. Although you can select the melody (upper keyboard) voice you intend to use by pressing one of the voice/rhythm selectors, the Personal Electronic Piano automatically determines the voices to be used for the accompaniment bass and chords according to the rhythm you select.

3. Start the Accompaniment

Press the START/STOP button or SYNCHRO START/FILL IN button to determine how the accompaniment will be started. If you press the START/STOP button, the rhythm will begin playing immediately without chordal accompaniment.

4. Play a Chord on the Auto Bass Chord Keys

As soon as you play any chord in the Auto Bass Chord section of the keyboard (i.e. any key to the left of the keyboard split marker), the Personal Electronic Piano will automatically begin to play the chord along with the selected rhythm and an appropriate bass line. The accompaniment will continue playing even if you release the Auto Bass Chord keys. When changing chords, be sure to release all keys before playing a new chord.

The Personal Electronic Piano will accept the following chord types:

- Major
- Minor
- Major seventh
- Minor seventh
- Minor seventh flat five
- Seventh
- Seventh suspended fourth
- Augmented
- Diminished

If only a single key is pressed, it will be interpreted as the root of a major chord. That is, if you press only the "C" key a C-major accompaniment will be played.

If only two notes are played, the interval between them determines the chord as follows:

Interval	Chord
Minor second	Major seventh with the high note as the root.
Major second	7th with the high note as the root.
Minor third	Minor with the low note as the root.
Major third	Major with the low note as the root.
Perfect fourth	Major with the high note as the root.
Augmented fourth	Minor-seventh flat five with the low note as the root.

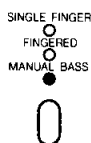
- All other FINGERED mode operations are the same as in the SINGLE FINGER mode.

MANUAL BASS

The MANUAL BASS mode allows you to play two voices at once — a bass voice with the left hand and any other voice with the right. The bass voice can be played on the Auto Bass Chord keys, up to the keyboard split marker. You can select any of the Personal Electronic Piano's 11 voices (or drums) to play on the upper section of the keyboard, but the bass voice is determined by the rhythm you select.

1. Select the MANUAL BASS Mode

Press the Auto Bass Chord button a few times until the MANUAL BASS indicator lights.



2. Select a Rhythm

If you intend to use the MANUAL BASS feature while a rhythm is playing, simply select the desired rhythm. If you want to use MANUAL BASS without starting rhythm playback, different bass voice can be selected by selecting different rhythms without pressing the START button. The bass voices associated with each rhythm are listed below.

Rhythm	Bass Voice
POPS 1	Electric Bass 1
POPS 2	Electric Bass 1
SLOW ROCK	Electric Bass 1
DISCO	Electric Bass 2 (Slap Bass)
16 BEAT	Electric Bass 1
COUNTRY	Upright Bass 1
SHUFFLE	Electric Bass 1
SWING	Upright Bass 1
BOSSA	Upright Bass 1
LATIN POP	Upright Bass 2
WALTZ	Upright Bass 2
MARCH (METRONOME)	Brass Bass

3. Select an Upper Keyboard Voice

Select the desired upper voice in the normal way.

4. Adjust the Volume Balance

In the MANUAL BASS mode, the volume of the lower keyboard bass voice is controlled by the ABC VOLUME control. Use the ABC VOLUME and MASTER VOLUME controls to set up the desired balance between the lower and upper keyboard voices.

- In the MANUAL BASS mode, the maximum number of notes that can be played simultaneously on the upper keyboard is 15. This number is further reduced if a rhythm is playing.

SOLO STYLEPLAY

This sophisticated feature automatically adds appropriate harmony notes and arpeggios to a melody you play on the upper keyboard according to the selected rhythm style.

- Only a single note can be played at a time on the upper keyboard section when the SOLO STYLEPLAY feature is used.

1. Turn SOLO STYLEPLAY ON

Press the SOLO STYLEPLAY button. The SOLO STYLEPLAY indicator will light indicating that the SOLO STYLEPLAY feature is ON. The SINGLE FINGER Auto Bass Chord mode will be automatically selected if any other mode (except FINGERED) is currently selected.



2. Select the FINGERED Mode if Necessary

Use the Auto Bass Chord button to select the FINGERED mode if you prefer to finger your own chords.

3. Select the Desired Rhythm

Select the desired rhythm by holding the RHYTHM SELECT button and pressing one of the voice/rhythm buttons. The rhythm you select determines the type of SOLO STYLEPLAY accompaniment produced.

4. Play

If a rhythm is not already playing, the SYNCHRO START mode is automatically selected when SOLO STYLEPLAY is turned ON, so all you have to do is play the required chords (SINGLE FINGER or FINGERED) on the lower keyboard while playing a single-note melody line on the upper keyboard.

5. Stop the Accompaniment

Stop the accompaniment using the START/STOP button (and turn SOLO STYLEPLAY OFF, if necessary, by pressing the SOLO STYLEPLAY button again so that its LED goes out).

- The following are examples of the type of songs that ideally match the various SOLO STYLEPLAY styles.

POPS 1	Love Is Blue	SHUFFLE	Singin' In The Rain
POPS 2	Hey Jude	SWING	Red Roses For A
SLOW ROCK	Mr. Lonely		Blue Lady
DISCO	Watermelon Man	BOSSA	The Girl From Ipanema
16 BEAT	Night Birds	LATIN POP	Never On Sunday
COUNTRY	Jambalaya	WALTZ	Edelweiss
		MARCH	De Camptown Races

THE PERFORMANCE MEMORY

The YFP-70 Performance Memory functions as a digital recorder that allows you to record and play back anything you play on the keyboard. You can simply enjoy listening to playback of your performance, or play along with it on the keyboard. You can record using any voice, rhythm or Auto Bass Chord mode.

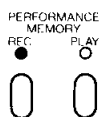
- The Performance Memory records the following data: notes played, rhythm selection, damper pedal operations, voice selection, Auto Bass Chord mode, the initial tempo and tempo changes made during the recording, fill ins, ABC volume, rhythm volume, reverb mode.
- Up to approximately 1100 notes can be recorded in the Performance Memory. This number varies, however, according to damper-pedal usage and other factors.
- Material recorded using the Performance Memory will be retained in the YFP-70 memory for approximately one week even the power is left OFF the entire time. To keep the recorded performance in memory for longer periods, make sure that the YFP-70 power is turned ON briefly at least once a week.

Note: Recording can not be activated if the YFP-70 Multi-Timbre Mode is engaged (see "The Multi-Timbre Mode" in the "MIDI FUNCTIONS" section of this manual — page 18).

Recording

1. Set the Record Ready Mode

Press the PERFORMANCE MEMORY REC button. This engages the "record ready" mode: the REC LED will light and the metronome will sound at the currently selected tempo.



2. Set Tempo and Other Functions

Before actually beginning to record, you should select a tempo that will be easy to record at (using the TEMPO ▲ and/or ▼ buttons). Also make the desired voice, rhythm and auto accompaniment settings.

3. Start Recording

Since the synchro start mode is automatically engaged when the REC button is pressed, recording will begin automatically as soon as you begin playing. Recording can also be started by pressing the START/STOP button.

4. Stop Recording

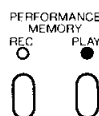
Press the REC button a second time, or press the START/STOP button to stop recording. It is also possible to stop recording by pressing the PLAY button. Recording will stop automatically if you exceed the Performance Memory note capacity, and "FUL" will appear on the TEMPO/BEAT display.

- Whenever you record using the Performance Memory, any previously recorded material will be erased. Simply pressing the REC button, however, does not erase the previous material.
- The Performance Memory can be erased deliberately by first pressing the REC button and then pressing the START/STOP button twice.

Playback

1. Press the PLAY Button

Pressing the PLAY button causes its indicator to light and activates the play ready mode.



2. Start Playback

Start playback by pressing the START/STOP button. It is also possible to activate the synchro start mode by pressing the SYNCHRO START/FILL IN button, and then begin playing on the keyboard to actually start playback.

3. Play Along if You Like

Play along on the YFP-70 keyboard if you like, using any of the available voices. Please note, however, that the YFP-70's 16-note polyphony limitation still applies. In other words, the total number of notes being played back by the Performance Memory and those played on the keyboard cannot exceed 16 at any instant.

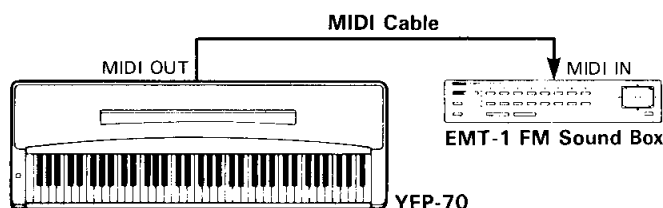
4. Stop Playback

Playback will stop automatically when the end of the recording is reached. You can also stop playback at any time by pressing the PLAY, REC or STOP/START button. Playback will also stop if the DEMO button is pressed.

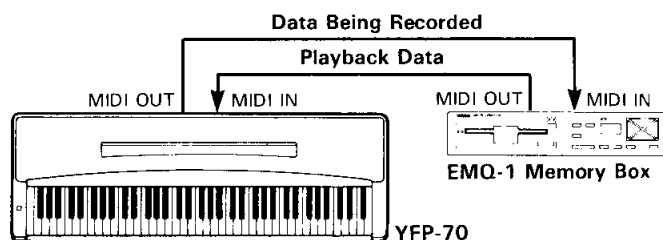
MIDI FUNCTIONS

A Brief Introduction to MIDI

MIDI, the Musical Instrument Digital Interface, is a world-standard communication interface that allows MIDI-compatible musical instruments and equipment to share musical information and control one another. This makes it possible to create "systems" of MIDI instruments and equipment that offer far greater versatility and control than is available with isolated instruments. For example, most MIDI keyboards (including the Personal Electronic Piano, of course) transmit note and velocity (touch response) information via the MIDI OUT connector whenever a note is played on the keyboard. If the MIDI OUT connector is connected to the MIDI IN connector of a second keyboard (synthesizer, etc.) or a tone generator such as the Yamaha EMT-1 FM Sound Box (essentially a synthesizer with no keyboard), the second keyboard or tone generator will respond precisely to notes played on the original transmitting keyboard. The result is that you can effectively play two instruments at once, providing thick multi-instrument sounds.



This same type of musical information transfer is used for MIDI sequence recording. A sequence recorder such as the Yamaha EMQ-1 Memory Box can be used to "record" MIDI data received from a Personal Electronic Piano, for example. When the recorded data is played back, the Personal Electronic Piano automatically "plays" the recorded performance in precise detail.



The examples given above really only scratch the surface. MIDI can do much, much more. The YFP-70 offers a number of MIDI functions that allow it to be used in fairly sophisticated MIDI systems.

Note: Always use a high-quality MIDI cable to connect MIDI OUT to MIDI IN terminals. Never use MIDI cables longer than about 15 meters, since cables longer than this can pick up noise which can cause data errors.

MIDI "Messages" Transmitted & Received by the Personal Electronic Piano

The MIDI information (messages) transmitted and received by the YFP-70 Personal Electronic Piano are as follows:

Note and Velocity Data

This information tells the receiving keyboard or tone generator to play a certain note (specified by the MIDI note number) at a certain dynamic level (specified by the MIDI velocity value). Note and velocity data is transmitted by the Personal Electronic Piano whenever a key is pressed, and the Personal Electronic Piano's internal AWM tone generator will "play" the corresponding note(s) whenever note and velocity data is received from an external MIDI device.

Program Change Numbers

The YFP-70 transmits a MIDI program number between 0 and 11 when one of its voice selectors is pressed. This normally causes the correspondingly numbered voice or program to be selected on a receiving MIDI device. The Personal Electronic Piano will respond in the same way, automatically selecting the appropriate voice when a MIDI program change number is received. See "Program Change ON/OFF" on page 18 for information on turning program change number reception and transmission ON or OFF.

NO.	VOICE	NO.	VOICE
0	PIANO 1	6	CHOIR
1	PIANO 2	7	STRINGS
2	E. PIANO	8	WOOD
3	HARPSI	9	BRASS
4	VIBES	10	P.ORGAN
5	GUITAR	11	DRUMS

The following program change numbers are also accepted when the Multi-Timbre mode (described on page 18) is active.

NO.	VOICE	NO.	VOICE
12	UP.BASS 1	22	PIANO 1
13	UP.BASS 2	23	E.PIANO
14	EL.BASS 1	24	BANJO
15	EL.BASS 2	25	BRASS 2
16	SYN.BASS	26	STRINGS 2
17	BRASS BASS	27	DST.GUITAR
18	E.GUITAR 1	28	MARIMBA
19	E.GUITAR 2	29	SYN.BRASS
20	GUT GUITAR	30	J.ORGAN
21	JAZZ GUITAR		

Control Change Numbers

Control Change data representing damper pedal operations is transmitted by the Personal Electronic Piano whenever the pedal is used. If the receiving device is a tone generator or another keyboard, it will respond in the same way as the Personal Electronic Piano's internal tone generator when these controls are used. The Personal Electronic Piano also receives and responds to these as well as some additional control change data described in the "MIDI DATA FORMAT" section of this manual. See "Control Change ON/OFF" on page 18 for information on turning control change number reception and transmission ON or OFF.

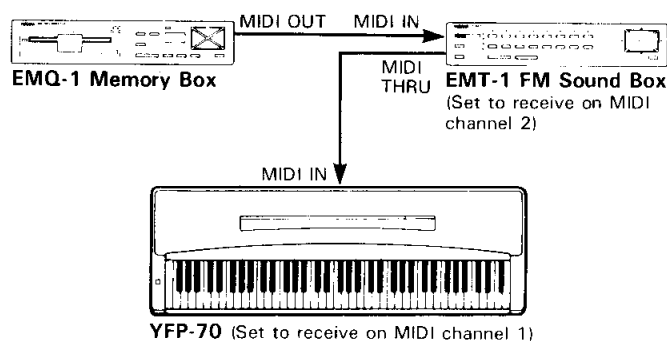
MIDI FUNCTION CHART

Function	Voice Selector
MIDI Transmit Channel	PIANO 1
MIDI Receive Channel	PIANO 2
Local ON/OFF	E.PIANO
Program Change ON/OFF	HARPSI
Control Change ON/OFF	VIBES
Multi-Timbre Mode ON/OFF	GUITAR
Split Send Mode ON/OFF	CHOIR
MIDI/Internal Clock	STRINGS
Panel Data Transmit	WOOD
Bulk Dump	BRASS

* The MIDI functions listed above are engaged by holding down the MIDI/TRANPOSE button and pressing the corresponding voice selector. Full details are given in the following pages. A special MIDI mode that is currently intended for internal Yamaha use only is accessed by holding MIDI/TRANPOSE and pressing the P.ORGAN selector. If you accidentally turn this mode ON (the P.ORGAN LED is lit when the P.ORGAN selector is pressed while MIDI/TRANPOSE is held), turn it OFF by holding MIDI/TRANPOSE and pressing the P.ORGAN selector again (the P.ORGAN LED should go out).

MIDI Transmit & Receive Channel Selection

The MIDI system allows transmission and reception of MIDI data on 16 different channels. Multiple channels have been implemented to allow selective control of certain instruments or devices connected in series. For example, a single MIDI sequence recorder could be used to "play" two different instruments or tone generators. One of the instruments or tone generators could be set to receive only on channel 1, while the other is set to receive on channel 2. In this situation the first instrument or tone generator will respond only to channel-1 information transmitted by the sequence recorder, while the second instrument or tone generator will respond only to channel-2 information. This allows the sequence recorder to "play" two completely different parts on the receiving instruments or tone generators.



In any MIDI control setup, the MIDI channels of the transmitting and receiving equipment must be matched for proper data transfer. An "OMNI" receive mode is also available, which allows reception on all 16 MIDI channels. In the OMNI mode it is not necessary to match the receive channel of the receiving device to the the transmit channel of the transmitting device (except when receiving mode messages).

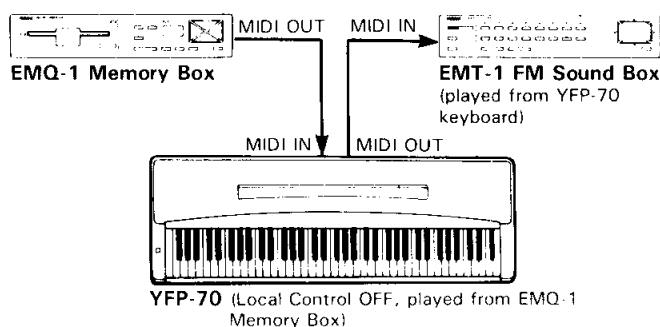
Setting the Personal Electronic Piano MIDI Channels

1. Press and hold the MIDI/TRANPOSE button.
2. Press the PIANO 1 voice selector if you want to set the transmit channel or the PIANO 2 button to set the receive channel.
3. While still holding the MIDI/TRANPOSE button, use the TEMPO ▲ and ▼ buttons to select the desired MIDI channel, the selected MIDI channel is shown on the TEMPO/BEAT display. When setting the receive channel, "ALL" on the display indicates the OMNI mode.
4. Release the MIDI/TRANPOSE button.

Note: When the power is initially turned ON, MIDI receive is set to the OMNI mode and the transmit channel is set to 1.

Local Control ON/OFF

"Local Control" refers to the fact that, normally, the Personal Electronic Piano keyboard controls its internal tone generator, allowing the internal voices to be played directly from the keyboard. This situation is "Local Control ON" since the internal tone generator is controlled locally by its own keyboard. Local control can be turned OFF, however, so that the Personal Electronic Piano keyboard does not play the internal voices, but the appropriate MIDI information is still transmitted via the MIDI OUT connector when notes are played on the keyboard. At the same time, the internal tone generator responds to MIDI information received via the MIDI IN connector. This means that while an external MIDI sequence recorder such as the Yamaha EMQ-1 Memory Box, for example, plays the Personal Electronic Piano's internal voices, an external tone generator such as the EMT-1 can be played from the Personal Electronic Piano keyboard.



1. Hold down the MIDI/TRANPOSE button.
2. Press the E.PIANO voice selector. If the E.PIANO LED is lit when the E.PIANO voice selector is pressed, you have turned local control OFF. If the E.PIANO LED is not lit when the E.PIANO voice selector is pressed, you have turned local control ON.
3. Release the MIDI/TRANPOSE button.

Program Change ON/OFF

Normally the Personal Electronic Piano will respond to MIDI program change numbers received from an external keyboard or other MIDI device, causing the correspondingly numbered Personal Electronic Piano voice to be selected. The Personal Electronic Piano will normally also send a MIDI program change number whenever one of its voices is selected, causing the correspondingly numbered voice or program to be selected on the external MIDI device if the device is set up to receive and respond to MIDI program change numbers.

This function makes it possible to cancel program change number reception and transmission so that voices can be selected on the Personal Electronic Piano without affecting the external MIDI device, and vice versa.

1. Hold down the MIDI/TRANPOSE button.
2. Press the HARPSI voice selector. If the HARPSI LED is lit when the HARPSI voice selector is pressed, you have turned program change reception/transmission OFF. If the HARPSI LED is not lit when the HARPSI voice selector is pressed, you have turned program change reception/transmission ON.
3. Release the MIDI/TRANPOSE button.

Control Change ON/OFF

Normally the Personal Electronic Piano will respond to MIDI control change data received from an external MIDI device or keyboard, causing the selected Personal Electronic Piano voice to be affected by pedal and other "control" settings received from the controlling device. The Personal Electronic Piano also transmits MIDI control change information when either of its pedals are operated.

This function makes it possible to cancel control change data reception and transmission if you do not want the Personal Electronic Piano voices to be affected by control change data received from an external device or vice versa.

1. Hold down the MIDI/TRANPOSE button.
2. Press the VIBES voice selector. If the VIBES LED is lit when the VIBES voice selector is pressed, you have turned control change reception/transmission OFF. If the VIBES LED is not lit when the VIBES voice selector is pressed, you have turned control change reception/transmission ON.
3. Release the MIDI/TRANPOSE button.

The Multi-Timbre Mode

The Multi-Timbre mode is a special mode in which the Personal Electronic Piano voices can be independently controlled on different MIDI channel numbers (1 through 10 and 15) by an external MIDI device such as the Yamaha EMQ-1 Memory Box.

CHAN.	VOICE
1	PIANO 1
2	E.PIANO
3	E.BASS
4	VIBES
5	GUITAR
6	STRINGS
7	BRASS
8	WOOD
9	UPRIGHT 1
10	HARPSI
15	RHYTHM

* The YFP-70's rhythm instruments are controlled via MIDI channel 15. The note assignments for the various rhythm instruments are given below:

RHYTHM INSTRUMENT NOTE ASSIGNMENTS

Note (MIDI Note No.)	Instrument
F#4 (78)	RIM SHOT
G4 (79)	BASS DRUM
G#4 (80)	BRUSH
A4 (81)	SNARE DRUM NORMAL
A#4 (82)	HI-HAT CLOSED
B4 (83)	SNARE GATE ECHO
C5 (84)	TOM LOW
C#5 (85)	HI-HAT OPEN
D5 (86)	TOM MIDDLE
D#5 (87)	RIDE CYMBAL
E5 (88)	TOM HIGH
F5 (89)	ELECTRONIC TOM MID
F#5 (90)	CRASH CYMBAL
G5 (91)	ELECTRONIC TOM HIGH
G#5 (92)	CABASA
A5 (93)	CONGA LOW
A#5 (94)	COWBELL
B5 (95)	CONGA HIGH
C6 (96)	TIMBALE LOW
C#6 (97)	TAMBOURINE
D6 (98)	TIMBALE HIGH
D#6 (99)	TRIANGLE CLOSED
E6 (100)	METRONOME
F6 (101)	METRONOME
F#6 (102)	TRIANGLE OPEN

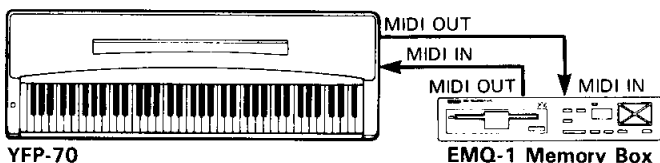
The Multi-Timbre mode can be activated as follows:

1. Hold down the MIDI/TRANPOSE button.
2. Press the GUITAR voice selector. If the GUITAR LED is lit when the GUITAR voice selector is pressed, you have turned the Multi-Timbre mode ON. If the GUITAR LED is not lit when the GUITAR voice selector is pressed, you have turned the Multi-Timbre mode OFF.
3. Release the MIDI/TRANPOSE button.

Multi-Timbre mode example

Here's an example of how you could use the Multi-Timbre mode to record three different parts on the EMQ-1 Memory Box that will play different voices on the Personal Electronic Piano when played back.

1. Connect the EMQ-1 to the Personal Electronic Piano as shown below.

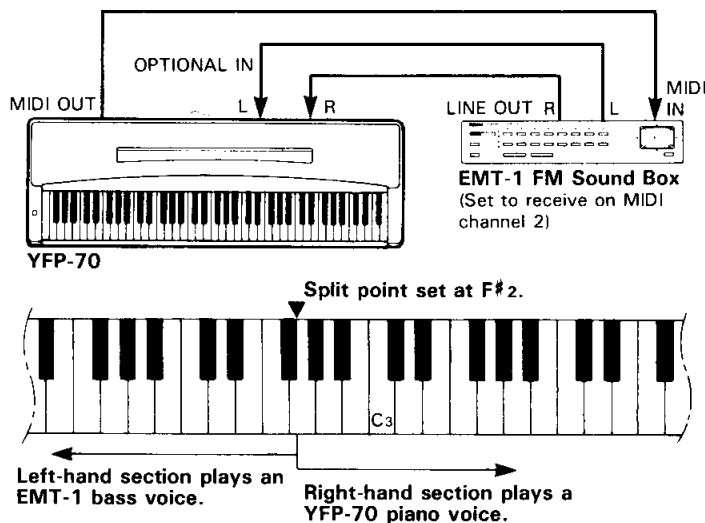


2. Select the first voice and MIDI transmit channel number, then record the first part on the EMQ-1.
3. Activate the Personal Electronic Piano Multi-Timbre mode, then select a new MIDI transmit channel and voice and record the second part on the EMQ-1 using its overdubbing function.
4. While still in the Multi-Timbre mode, select the third MIDI transmit channel and voice and record the third part on the EMQ-1 using its overdubbing function.
5. Still in the Multi-Timbre mode, play back the EMQ-1. The recorded parts will be played back using the individual voices selected during recording, providing a full ensemble sound.

The Split Send Mode

In the split mode the lower section of the Personal Electronic Piano keyboard (below the keyboard split marker) transmits on MIDI channel 2 while the upper section transmits on the channel set using the MIDI transmit channel selection function described previously. Damper pedal data is sent via both channels. This allows the different keyboard sections to control different external MIDI tone generators or other devices.

1. Hold down the MIDI/TRANPOSE button.
2. Press the CHOIR voice selector. If the CHOIR LED is lit when the CHOIR voice selector is pressed, you have turned the Split Send OFF mode ON. If the CHOIR LED is not lit when the CHOIR voice selector is pressed, you have turned the Split Send mode OFF.
3. Release the MIDI/TRANPOSE button.



MIDI/Internal Clock Select

This function determines whether the rhythm and PIANO ABC timing is controlled by the Personal Electronic Piano's own internal clock or an external MIDI clock signal received from external equipment connected to the MIDI IN connector. The Clock Mode is automatically set to INTERNAL when the power is initially turned ON.

1. Hold down the MIDI/TRANPOSE button.
 2. Press the STRINGS voice selector. If the STRINGS LED is lit when the voice selector is pressed, you have set the Clock Mode to EXTERNAL. If the STRINGS LED is not lit when the voice selector is pressed, you have set the Clock Mode to INTERNAL.
 3. Release the MIDI/TRANPOSE button.
- If the Clock Mode is set to EXTERNAL and a MIDI clock signal is not being received from an external source, the rhythm, PIANO ABC and other clock-dependent features will not operate.

Transmitting the Panel Settings

This function causes all the current Personal Electronic Piano control settings (selected voice, etc.) to be transmitted via the MIDI OUT terminal. This is particularly useful if you will be recording performances to a MIDI sequence recorder* which will be used to control the Personal Electronic Piano on playback. By transmitting the Personal Electronic Piano panel settings and recording them on the MIDI sequence recorder prior to the actual performance data, the Personal Electronic Piano will be automatically restored to the same settings when the performance is played back.

* The Yamaha EMQ-1 Memory Box automatically receives and records the Personal Electronic Piano panel settings when a recording is begun, so this function is most useful with MIDI sequence recorders other than the EMQ-1.

1. Hold down the MIDI/TRANPOSE button.
2. Press the WOOD voice selector.
3. Release the MIDI/TRANPOSE button.

Note: The WOOD indicator will light during transmission.

MIDI Bulk Dump

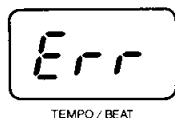
This function is used to transmit all data stored in the Performance Memory to a MIDI data storage device such as the Yamaha EMQ-1 Memory Box, other sequence recorders or MIDI compatible computers.

1. Hold down the MIDI TRANPOSE button.
2. Press the BRASS voice selector.
3. Release the MIDI TRANPOSE button.

Note: The BRASS indicator remains lit while the data is being sent.

MIDI Bulk Receive

The YFP-70 automatically receives MIDI bulk dump data from a second YFP-70 or other compatible equipment. When bulk data has been successfully received, "ooo" appears on the TEMPO/BEAT display. If an error occurs during reception, "Err" will appear on the display.



TROUBLESHOOTING

If you encounter what appears to be a malfunction, please check the following points before assuming that your Personal Electronic Piano is faulty.

- 1. No Sound When the Power is Turned ON**
Is the AC plug properly connected to an AC wall outlet? Check the AC connection carefully. Is the MASTER VOLUME control turned up to a reasonable listening level?
- 2. The Personal Electronic Piano Reproduces Radio or TV Sound**
This can occur if there is a high-power transmitter in your vicinity. Contact your Yamaha dealer.
- 3. Intermittent Static Noise**
This is usually due to turning ON or OFF a household appliance or other electronic equipment which is fed by the same AC mains line as your Personal Electronic Piano.
- 4. Interference Appears On Radio or TV Sets Located Near the Personal Electronic Piano**
The Personal Electronic Piano contains digital circuitry which can generate radio-frequency noise. The solution is to move the Personal Electronic Piano further away from the affected equipment, or vice versa.
- 5. Distorted Sound When the Personal Electronic Piano is Connected to An External Amplifier/Speaker System**
If the Personal Electronic Piano is connected to a stereo system or instrument amplifier and the sound is distorted, reduce the setting of the Personal Electronic Piano volume control to a level at which the distortion ceases.

OPTIONS & EXPANDER MODULES

OPTIONS

BC-7 Bench

A stable, comfortable bench styled to match your Yamaha Personal Electronic Piano.

HPE-5 Stereo Headphones

High-performance lightweight dynamic headphones with extra-soft ear pads.

PCS-3 Connecting Cord

For connecting the Personal Electronic Piano to a stereo system or other audio equipment.

EXPANDER MODULES

Sound Box EMT-10.....	AWM Sound Expander
Sound Box EMT-1.....	FM Sound Expander
Memory Box EMQ-1.....	Disk Recorder
Drum Box EMR-1.....	Digital Drummer
Reverb Box EME-1.....	Digital Reverb

These state-of-the-art Expander Modules can dramatically expand the musical scope of your Personal Electronic Piano.

NOTE: Some items may not be available in certain areas.

MIDI DATA FORMAT

If you're already very familiar with MIDI, or are using a computer to control your music hardware with computer-generated MIDI messages, the data provided in this section can help you to control the Personal Electronic Piano.

1. NOTE ON/OFF

Data format: [9nH] → [kk] → {vv}

9nH = Note ON/OFF event (n = channel number)

kk = Note number (28 ~ 103 = E0 ~ G6) transmission only

kk = Note number (21 ~ 108 = A-1 ~ C7) reception only

vv = Velocity (Key ON = 1 ~ 127, Key OFF = 0)

* Note OFF event format [8nH] → [kk] → {vv} also recognized (reception only).

2. CONTROL CHANGE & MODE MESSAGES

Data format: [BnH] → [cc] → [dd]

BnH = Control event (n = channel number)

cc = Control number (or mode message number)

dd = Control value

cc	PARAMETER	dd
07H	Volume	0 = OFF; 6FH = -3dB; 7FH = 0dB
0BH	Expression	0 = OFF; 6FH = -3dB; 7FH = 0dB
40H	Damper pedal	0 ~ 3FH = OFF; 40H ~ 7FH = ON
43H	Soft pedal	0 ~ 3FH = OFF; 40H ~ 7FH = ON
79H	Reset all controllers	0
7AH	Local ON/OFF	0 = OFF; 7FH = ON
7BH	All notes OFF	0
7CH	OMNI OFF/All notes OFF	0
7DH	OMNI ON/All notes OFF	0

* 43H, 79H, 7AH, 7BH, 7CH and 7DH are receive only.

3. PROGRAM CHANGE

Data format: [CnH] → [dd]

CnH = program event (n = channel number)

dd = Program number

dd	VOICE	dd	VOICE
00H	PIANO 1	06H	CHOIR
01H	PIANO 2	07H	STRINGS
02H	E.PIANO	08H	WOOD
03H	HARPSI	09H	BRASS
04H	VIBES	0AH	P.ORGAN
05H	GUITAR	0BH	DRUMS

The following program change numbers are also accepted when the Multi-Timbre mode (described on page 18) is active.

dd	VOICE	dd	VOICE
0CH	UP.BASS 1	16H	PIANO 1
0DH	UP.BASS 2	17H	E.PIANO
0EH	EL.BASS 1	18H	BANJO
0FH	EL.BASS 2	19H	BRASS 2
10H	SYN.BASS	1AH	STRINGS 2
11H	BRASS BASS	1BH	DST.GUITAR
12H	E.GUITAR 1	1CH	MARIMBA
13H	E.GUITAR 2	1DH	SYN.BRASS
14H	GUT GUITAR	1EH	J.ORGAN
15H	JAZZ GUITAR		

* No voice change is made when dd > 0BH.

* When the Multi-Timbre mode is ON, program change numbers received on channel 15 select the following rhythm patterns rather than voices:

dd	RHYTHM PATTERN	dd	RHYTHM PATTERN
00H	POPS 1	08H	BOSSANOVA
01H	POPS 2	09H	LATIN POP
02H	SLOW ROCK	0AH	WALTZ
03H	DISCO	0BH	METRONOME
04H	16 BEAT	61H	No rhythm 2/4
05H	COUNTRY	62H	No rhythm 3/4
06H	SHUFFLE	63H	No rhythm 4/4
07H	SWING		

4. SYSTEM REALTIME MESSAGE

Active Sensing (FEH)

Transmitted every 200 milliseconds. If not received for more than 400 milliseconds a NOTE OFF occurs.

5. SYSTEM EXCLUSIVE MESSAGES

• General

DATA FORMAT: [F0H] → [43H] → [73H] → [21H] → [nn] → [F7H]

43H = YAMAHA ID

73H = SINGLE KEYBOARD ID

21H = YFP-70 ID

nn = 02H: Internal clock (receive only).

nn = 03H: External clock (receive only).

nn = 13H: Multi-timbre off.

nn = 15H: Multi-timbre on.

nn = 7nH: Receive channel change (n = ch no.).

nn = 50H: Tempo UP.

nn = 51H: Tempo DOWN.

nn = 52H: Original Tempo.

• Rhythm Number Change

DATA FORMAT: [F0H] → [43H] → [73H] → [21H] → [11H] → [0nH] → [15H] → [YY] → [F7H]

YY = 0 — 0BH: Panel rhythm patterns.

YY = 61H: No rhythm 2/4.

YY = 62H: No rhythm 3/4.

YY = 63H: No rhythm 4/4.

• Reverb Change

DATA FORMAT: [F0H] → [43H] → [73H] → [21H] → [11H] → [0nH] → [59H] → [YY] → [F7H]

YY = 0: Off.

YY = 01H: ROOM.

YY = 02H: HALL 1.

YY = 03H: HALL 2.

• Panel Dump

DATA FORMAT: [F0H] → [43H] → [xn] → [ff] [F7H]

x = 0, ff = 7CH: Panel data dump. Panel data follows 7CH.

x = 2, ff = 7CH: Panel data request transmission.

• Bulk Dump

DATA FORMAT: [F0H] → [43H] → [73H] → [21H] * → [0xH] [F7H]

x = 7: Bulk dump request.

x = 6: Bulk dump transmission.

* 01H, 1BH also accepted (bulk dump request only).

• All MIDI data available for general use are given above.

SPECIFICATIONS
TECHNISCHE DATEN
SPÉCIFICATIONS
ESPECIFICACIONES

* Specifications subject to change without notice.
* Änderungen ohne Vorankündigung vorbehalten.
* Sous toute réserve de modification des caractéristiques sans préavis.
* Especificaciones sujetas a cambios sin previo aviso.

Table with 2 columns: Feature and YFP-70 specification. Rows include: KEYBOARD (76 KEYS), VOICE SELECTORS (PIANO 1/2, E.PIANO, etc.), RHYTHM SELECTORS & CONTROLS (POPS 1/2, SLOW ROCK, etc.), ABC CONTROLS (ABC VOLUME, SINGLE FINGER, etc.), KEYBOARD PERCUSSION (RIM SHOT, BASS DRUM, etc.), REVERB (ROOM, HALL 1/2), PERFORMANCE MEMORY (REC, PLAY), OTHER CONTROLS (MASTER VOLUME, MIDI/TRANSPOSE, etc.), JACKS/CONNECTORS (HEADPHONES, etc.), INPUT & OUTPUT (OPTIONAL OUT: 600 Ohm, etc.), MAIN AMPLIFIER (20 W), SPEAKERS (16 cm), DIMENSIONS (1157 x 396 x 759 mm), WEIGHT (23.5 kg).

NAME PLATE LOCATION: The Model, Serial Number, Power requirements, etc., are indicated on this plate. You should note the model, serial number and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model _____
Serial No. _____
Purchase Date _____

LAGE DES TYPENSCHILDS: Modellbezeichnung, Seriennummer, Betriebsstrom etc, sind auf dem Typenschild angegeben. Tragen Sie Modellbezeichnung, Seriennummer und Kaufdatum in die unten vorhandenen Felder ein und bewahren Sie dieses Handbuch als permanenten Kaufbeleg auf.

Modell _____
Seriennummer _____
Kaufdatum _____

EMPLACEMENT DE LA PLAQUE SIGNALÉTIQUE: Le modèle, le numéro de série, l'alimentation requise et autres paramètres sont indiqués sur cette plaque. Inscrivez le modèle, le numéro de série et la date de l'achat dans l'espace prévu ci-dessous et conservez le mode d'emploi à titre d'enregistrement permanent de l'achat.

Modèle _____
N° de série _____
Date de l'achat _____

UBICACION DE LA PLACA DE CARACTERISTICAS: En esta placa se indican el modelo, el número de serie, la tensión de alimentación, etc. Anote el modelo, el número de serie, y la fecha de adquisición en los espacios ofrecidos a continuación, y guarde este manual como registro permanente de su adquisición.

Modelo _____
N.º de serie _____
Fecha de adquisición _____

Function		Transmitted	Recognized	Remarks
Basic	Default	: 1	: 1	
Channel	Changed	: 1-16	: 1-16	
Mode	Default	: 3	: 1	
	Messages	: X	: OMNIon, OMNIoff	
		: *****	: X	
Note		: 28-103	: 21-108	
Number	: True voice	: *****	: 21-108	
Velocity	Note on	: 0 9nH, v=1-127	: 0 v=1-127	
	Note off	: X 9nH, v=0	: X	
After	Key's	: X	: X	
Touch	Ch's	: X	: X	
Pitch Bender		: X	: X	
Control Change	07	: X	: 0	: Volume *1
	11	: X	: 0	: Expression
	64	: 0	: 0	: Damper
	67	: X	: 0	: Soft Pedal
	121	: X	: 0	: Reset All : Controllers
Program		: 0 0-11 *4	: 0 0-11 *3 *2	
Change	: True #	: *****	: 0-11	
System Exclusive		: 0	: 0	
System	: Song Pos	: X	: X	
	: Song Sel	: X	: X	
Common	: Tune	: X	: X	
System	: Clock	: 0	: 0	
Real Time	: Commands	: 0	: 0	
Aux	: Local ON/OFF	: X	: 0	
	: All Notes OFF	: X	: 0 (123-125) *5	
Mes-	: Active Sense	: 0	: 0	
sages	: Reset	: X	: X	
Notes : *1 = transmit if multi-timbre mode is on				
: *2 = receive 0-30 if multi-timbre is on				
: *3 = ch15(rhythm) receive 0-11 97-99, if multi-timbre is on				
: *4 = ch15(rhythm) transmit 0-11, if multi-timbre is on				
: *5 = receive (123) if omni off				
Mode 1	: OMNI ON, POLY	Mode 2	: OMNI ON, MONO	0 : Yes
Mode 3	: OMNI OFF, POLY	Mode 4	: OMNI OFF, MONO	X : No

FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. IMPORTANT:

When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. NOTE:

This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

The above statements apply **ONLY** to those products distributed by Yamaha Corporation of America or its subsidiaries.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the manufacture of this product contains LEAD. In addition, the electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT REMOVE ANY ENCLOSURE COMPONENTS! There are no user serviceable parts inside. All service should be performed by a service representative authorized by Yamaha to perform such service.

IMPORTANT MESSAGE: Yamaha strives to produce products that are both user safe and environmentally "friendly". We sincerely believe that our products meet these goals. However, in keeping with both the spirit and the letter of various statutes we have included the messages shown above and others in various locations in this manual.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

Wichtiger Hinweis für die Benutzung in der Bundesrepublik Deutschland.

Bescheinigung des Importeurs

Hiermit wird bescheinigt, daß der/die/das

Electronic Piano Typ: YFP-70

(Gerät, Typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der
VERFÜGUNG 1046/84

(Amtsblattverfügung)

funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

Yamaha Europa GmbH

Name des Importeurs

• Dies bezieht sich nur auf die von der Yamaha Europa GmbH vertriebenen Produkte.

CANADA

THIS DIGITAL APPARATUS DOES NOT EXCEED THE "CLASS B" LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATION OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.

LE PRESENT APPAREIL NUMERIQUE N'EMET PAS DE BRUITS RADIOELECTRIQUES DEPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMERIQUES DE LA "CLASSE B" PRESCRITES DANS LE REGLEMENT SUR LE BROUILLAGE RADIOELECTRIQUE EDCITE PAR LE MINISTERE DES COMMUNICATIONS DU CANADA.

• This applies only to products distributed by Yamaha Canada Music Ltd.
• Ceci ne s'applique qu'aux produits distribués par Yamaha Canada Musique Ltée.

Dette apparat overholder det gældende EF-direktiv vedrørende radiostøj.

Cet appareil est conforme aux prescriptions de la directive communautaire 87/308/CEE.

Diese Geräte entsprechen der EG-Richtlinie 82/499/EWG und/oder 87/308/EWG.

This product complies with the radio frequency interference requirements of the Council Directive 82/499/EEC and/or 87/308/EEC.

Questo apparecchio è conforme al D.M.13 aprile 1989 (Direttiva CEE/87/308) sulla soppressione dei radiodisturbi.

Este producto está de acuerdo con los requisitos sobre interferencias de radio frecuencia fijados por el Consejo Directivo 87/308/CEE.

YAMAHA CORPORATION

YAMAHA