

INTELLIGENT ARRANGER

Owner's Manual





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "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

ADVARSEL!

Lithiumbatteri. Eksplosionsfare. Udskiftning må kun foretages af en sagkyndig. og som beskrevet i servicemanual.

VARNING!

Lithiumbatteri. Explosionsrisk. Far endast bytas av behörig servicetekniker. Se instruktioner i servicemanualen.

ADVARSEL!

Lithiumbatteri. Fare for eksplotion. Ma bare skiftes av kvalifisert tekniker som beskrevet i servicemanualen.

VAROITUS!

Lithiumparisto. Rajahdysvaara. Pariston saa vaihtaa ainoastaan alan ammottimies.

IMPORTANT SAFETY INSTRUCTIONS

WARNING When using electric products, basic precau-tions should always be followed, including the following:

- Read all the instructions before using the product.
- To reduce the risk of injury, close supervision is necessary when a product is used near children.
- 3 Do not use this product near water- for example, near a bathtub, washbowl kitchen sink, in a wet basement, or near a swimming pool, or the like.
- 4 This product should be used only with a cart or stand that is recommended by the manufacture.
- 5 This product, either alone or in combination with an implifier and headphones or speakers, may be capable of producing sound levels that could cause
 - permanent hearing loss.

 Do not operate for a long period of time at a high volume level or at level that is uncomfortable. If you expenience any hearing loss or ringing in the ears. you should consult an audiologist.
- 6 The product should be located so that its location or position does not interfere with its proper ventilation.
- 7 The product should be located away from heat sources such as radiators, heat registers or other products that produce heat.
- The product should avoid using in where it may be effected by dust
- The product should be connected to a power supply only of the type described in the operating instruc-tions or as marked on the product.

- 10 The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time
- 11 Do not tread on the power-supply cord
- 12 Do not pull the cord but hold the plug when unplugging
- 13 When setting up with any other instruments, the procedure should be followed in accordance with instruction manual.
- 14. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through
- 15 The product should be serviced by qualified service
 - A: The power-supply cord or the plug has been
 - damaged: or B Objects have fallen, or liquid has been spilled into the product; or
 - The product has been exposed to rain, or
 - D The product does not appear to operate normally or exhibits a marked change in perfor-
 - The product has been dropped, or the enclosure
- 16 Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service

SAVE THESE INSTRUCTIONS

NOTICE

This digital apparatus does not exceed the Class B limits for radio noise emission set out in the Radio Interference Regulations of the Canadian Department of Communications.

AVIS

Cet appareil numérique ne dépasse pas les limites de la classe B au niveau des émissions de bruits radioélectriques fixés dans le Règlement des signaux parasites par le Ministère canadien des Communications.

WARNING

THIS APPARATUS MUST BE EARTH GROUNDED.

The three conductors of the mains lead attached to this apparatus are identified with color as shown in the table below, together with the matching terminal on the UK type power plug. When connecting the mains lead to a plug, be sure to connect each conductor to the cor rect terminal, as indicated

This instruction applies to the product for United Kingdom.

MAINS LEADS		PLUG	
Conductor	Color	Mark on the matching terminal	
Live	Brown	Red or letter L	
Neutral	Blue	Black or letter N	
Grounding Green- Yellow		Green, Green-Yellow, letter or symbol	

Bescheinigung des Herstellers /Importeurs

ermit wird hescheinigt, daß der/die/das ROLAND PRO-E INTELLIGENT ARRANGER

in Übereinstimmung mit den Bestimmungen der

Amtsbl Vfg 1046 / 1984

(Amistrative Lagung

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerates angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeraumt funk entstort ist

Roland Corporation Osaka Japan

RADIO AND TELEVISION INTERFERENCE

Warning. This equipment has been verified to comply with the limits for a Class 8 computing device pursuant to Subpair J. of Part 15 of FCC rules. Operation with non-certified or non-verified adult ment is filled to tasking to reduce not interdepence to radio and TV reception.

The equipment described in this manual upen arise and uses radio frequency energy if it is not instance and used property that is in strict accordance with our instructions it may cause interface. This equipment has been rested and found to compre with the minst fac it Class 8 compound rested in accordance with the specifications in Subbert J of Part 15 of PCC busis. These rules are those and the property of th

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FEATURES

- The PRO-E is a 32 partial, polyphonic synthesized arranger complete with a 37-note, dynamic keyboard.
- The PRO-E uses Roland's Linear Arithmetic Synthesis (LA sound)
- The LCD (Liquid Crystal Display) provides information and directions to the player while programming the many features of the PRO-E making operation quicker and easier.

Thank you for purchasing the Roland

PRO-E Intelligent Arranger. The PRO-E is an easy-to-operate arranger instrument that anyone can

It gives you the benefit of Roland's su-

perior digital technology.

The PRO-E uses the same Linear Arithmetic synthesis used by our D-series professional synthesizers. The 128 tones, 33 Special Effects plus 4 Effect mixtures and 30 percussion sounds of the PRO-E offer you an excellent natural range of sound.

The musical functions of the PRO-E.

The musical functions of the PRO-E add the fantastic modern musical sounds of other instruments to your keyboard playing.

This Owner's Manual is written to help you have many years of musical enjoyment with your PRO-E.

- [1] BALANCE section (See page 21)
- [2] REVERB EFFECT section (See page 45)
- [3] MEMORY CARD section (See page 77)
- [4] COMPOSER section (See page 71)
- [5] MODE/TRACK section
- [6] ARRANGER section (See page 24)
- [7] STYLE/TONE SELECT section (See page 27)
- [8] FUNCTION section (See page 49)
- [9] MIDI button (See page 85 & MIDI Manual)
- [10] PARAMETER button
- [11] CURSOR button
- [12] TRANSPOSE button (See page 48)
- [13] MELODY INTELLIGENCE (See page 44)
- [14] MIDI MESSAGE LED (See page 85 & MIDI Manual)
- [15] TEMPO LEDs (See page 29)
- [16] DISPLAY WINDOW (LCD)
- [17] MASTER VOLUME control (See page 13)
- [18] FADE IN/OUT section (See page 47)
- [19] SOUND EFFECTS section (See page 40)
- [20] ARRANGER LOOP buttons (See page 31)
- [21] USER PROGRAM buttons (Bank & Number) (See page 60)
- [22] ADVANCED ARRANGER button (See page 26)
- [23] FILL-IN buttons (See page 26)
- [24] BREAK MUTE/TAP TEMPO button (See pages 27/29)
- [25] INTRO/ENDING button (See page 30)
- [26] START/STOP button
- [27] TEMPO/FUNCTION Dial (See page 47)
- [28] PITCH BEND/MODULATION Lever (See page 44)
- [29] AC Socket
- [30] POWER SWITCH
- [31] MEMORY/STYLE CARD slot
- [32] MIDI Sockets
- [33] FOOTSWITCH Socket
- [34] Stereo OUT Sockets
- [35] Headphone Socket

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IMPORTANT NOTES

- The appropriate power supply for the instrument is shown on its name plate. Please make sure that the line voltage in your country meets the requirements
- Use only the AC cord provided.
- Please do not use the same socket used for any noise generating device (such as a motor, variable lighting system).
- It is normal for this unit to become hot while being operated.
- If the unit is not to be used for a long period of time, unplug the AC cord from the socket.
- Disconnect the AC cord immediately in the event of an electrical storm.
- Before setting up this keyboard with other MIDI devices, turn this keyboard off along with all other units.
- Be sure to connect the MIDI cables securely. If the MIDI cable is disconnected while the Arranger is being played, various troubles will occur (e.g. the note may continue to sound).
- Static electricity may cause the built-in computer to malfunction. Should this occur, simply reset the instrument by turning the power switch off and then after a few seconds, back on.
- This instrument might not operate correctly if turned on immediately after being turned off. If this happens, simply turn it off and after a few seconds later, turn it on again.
- Operating the PRO-E near a neon light, fluorescent lamp, TV or CRT display, may cause noise interference. If so, change the position of the instrument.
- To avoid risk of electric shock, do not perform any servicing. Refer all servicing to qualified service personnel.

THE CARE OF YOUR PRO-E

To ensure the best use and full enjoyment of your PRO-E, please read this guide carefully and thoroughly.

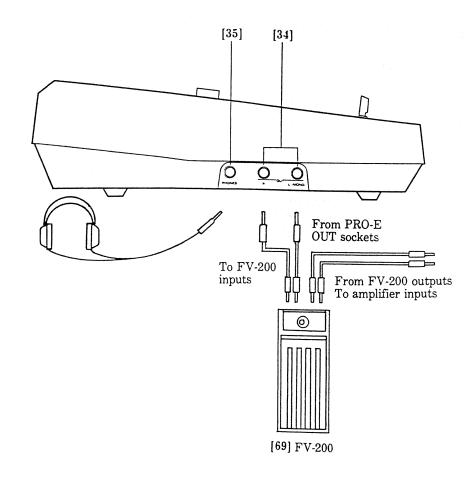
ROOM LOCATION

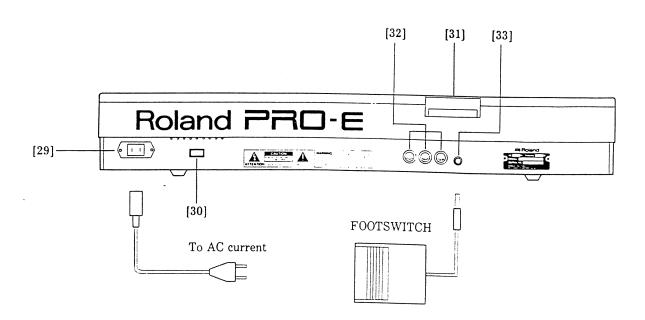
Avoid using this instrument in excessive heat or humidity conditions or where it may be affected by direct sunlight or dust and avoid places subject to high vibrations.

CABINET CARE

Use a soft dry cloth for dusting. To remove fingerprints or dulling film, use a soft cloth slightly dampened with water and a little mild detergent. Immediately wipe dry with a soft cloth. Do not use solvents such as paint thinners.

CONNECTIONS:





- (29) AC Socket

 To connect with household AC current, use the AC power cord supplied with your PRO-E.
- (30) POWER Switch
- (31) Memory Card Slot
 Insert optional Memory Card or
 Music Style Card here.
 See MEMORY CARD and STYLE CARD.
- (32) MIDI Sockets See MIDI CONTROL
- (33) FOOTSWITCH Socket
 Using the optional footswitch
 (DP-2/DP-6), various functions
 can be controlled by the foot.
 See FOOTSWITCH ASSIGN
- (34) Stereo OUT Sockets
 These sockets are used to amplify
 the sound of the PRO-E. When
 connecting to a Mono amplifier,
 always use the "L (mono)" OUT
 socket.
- (35) Headphones (PHONES) Socket
 For your playing convenience,
 connect a set of standard stereo
 headphones (RH-12/RH-100) into
 this socket and you can play and
 practice in private. The Master
 Volume control will adjust the
 headphones overall volume.
- (69) FV-200 Stereo Expression Pedal See page 13 for details.

OPERATION

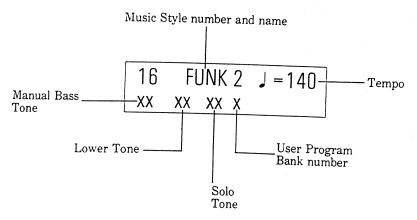
POWER ON

Press the Power On/Off switch on the rear panel of the PRO-E [30]. The display window [16] will respond with:

This is shown for a few seconds.

ROLAND PRO-E INTELL. ARRANGER

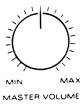
After a few seconds the display changes to:



Throughout this text, this will be referred to as the Master Display.

MASTER VOLUME

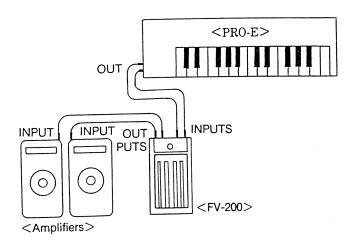
Make sure that the MASTER VOLU-ME control [17] is turned to the central position.



The Master Volume control enables the overall volume of the PRO-E to be raised (rotating the control clockwise) or lowered (rotating the control counterclockwise). This control will also control the overall volume when using headphones.

<REFERENCE>

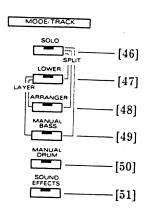
When connecting to external amplification, an optional stereo expression pedal (FV-200) can be used to control the overall volume. See the following illustration for connecting procedures.



- $\begin{tabular}{ll} 1. & Be sure to turn the PRO-E and any other amplification system Off. \end{tabular}$
- 2. Connect the PRO-E to the FV-200 by inserting a couple of shielded cords into the PRO-E OUT and the FV-200 INPUT sockets.
- 3. Connect the FV-200 to an amplification system with two additional shielded cords inserted into the FV-200 OUTPUT sockets.
- 4. Turn the switches of all instruments ON and adjust the Master Volume control of the PRO-E.
- 5. Make sure that the overall volume is controlled by the foot pedal.

KEYBOARD MODES

The instrument can be played in eleven different keyboard modes: SOLO LOWER SOLO/LOWER ARRANGER SOLO/ARRANGER LOWER/ARRANGER MANUAL BASS SOLO/MANUAL BASS LOWER/MANUAL BASS MANUAL DRUMS SOUND EFFECTS



SOLO Mode

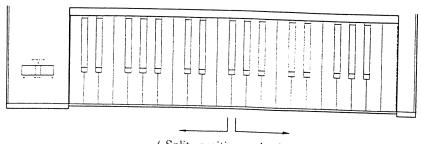
To play in SOLO Mode, press the SOLO button [46] (Orange LED lights) in the MODE/TRACK section. The 37-note keyboard can now be played as a Solo synthesizer using the Solo tone already preset. To select a different Solo tone, see TONE SELECT.

LOWER Mode

To play in the LOWER Mode, press the Lower button [47] (Orange LED lights). The keyboard can now be played as a synthesizer using the LO-WER tone already preset. To select a different LOWER tone, see TONE SELECT.

SOLO/LOWER Mode

To play in the SOLO/LOWER Mode, press SOLO and LOWER buttons simultaneously (both Orange LEDs light). The keyboard can now be played in a "Split" condition. One tone on the right-hand side of the keyboard and a different tone for the left.



("Split" position on keyboard)

With both the SOLO and LOWER (Orange LEDs lit), the keyboard will now be split between the F#2 and G2 keys in the second octave. The tone now sounding from the bottom note to and including F#2 will be known as the Lower. The tone now sounding from and including the G2 key upwards is known as the Solo. To select a different SOLO or LOWER tone, see TONE SELECT.

MANUAL BASS Mode

To play in the MANUAL BASS Mode, press the MANUAL BASS button [49] (Orange LED lights). The keyboard will now play the Manual Bass tone already selected, in the correct Bass pitch. To select a different MANUAL BASS tone, see TONE SELECT.

SOLO/MANUAL BASS Mode

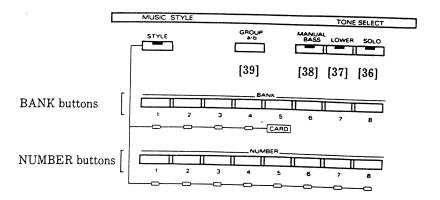
To play in the SOLO/MANUAL BASS Mode, press the SOLO and MANUAL BASS buttons simultaneosly (both Orange LEDs will light). The keyboard again can now be played in a "Split" condition. The SOLO tone played on the right-hand side of the keyboard and the MANUAL BASS tone played on the left. To select a different SOLO or MANUAL BASS tone, see TONE SELECT.

LOWER/MANUAL BASS Mode

To play in the LOWER/MANUAL BASS Mode, press the LOWER and MANUAL BASS buttons simultaneously (both orange LEDs will light). The keyboard will now be in a «Layered» condition, that is if a chord is played both the LOWER and MA-NUAL BASS tones will sound togther. However, the MANUAL BASS will now play «monophonically» (only one note can be played at one time). The MANUAL BASS note heard will be the Root note of the chord played. To select a different LOWER or MA-NUAL BASS tone, see TONE SE-LECT.

* In all the above modes, all of the 37 keys can be played dynamically, that is the harder you play the key the louder the tone will sound.

TONE SELECT



Any one of the 128 different tones can be selected for the Solo, Lower and Manual Bass by using the BANK and NUMBER Buttons. Tone selection can be carried out while playing in any keyboard mode. Tones can also be selected while the Arranger is playing or stopped.

* See the PRO-E Sound List card included with this manual for the complete list of internal change and MI-DI Program Change numbers of all 128 tones.

SOLO TONE SELECT

To select the Solo tone, press the SOLO button [36] in the TONE SELECT section (LED lights). The display will indicate the tone in use:



To change any of the 128 tones, select either Group a or b by pressing the GROUP a/b button [39], then press a BANK button for the first digit and a NUMBER button for the second.

Example: To select 51a FANTASY tone

Press BANK button 5 and then NUMBER button 1.

The display will respond with:

SOLO	Tone	[33]	
51	FANTASY		

After a few seconds the Master Display will return.

Example: To select 48b BRASS SECT1 tone

Press GROUP a/b button [39], press BANK button 4 and then NUMBER button 8. The display will respond with:

SOLO	Tone	[96]
48b	BRASS	SECT1

After a few seconds the display will revert to the Master Display.

LOWER TONE SELECT

To select a different tone for the Lower, press the LOWER button [37] in the TONE SELECT section (LED lights). The display will indicate the LOWER tone in use:



To change any of the 128 tones, select either Group a or b by pressing the GROUP a/b button, then press a BANK button for the first digit and a NUMBER button for the second.

Example: To select 17a ELEC PIANO4 tone

Press BANK button 1 and then NUM-BER button 7. The display will respond with:

> LOWER Tone [7] 17 ELEC PIANO4

After a few seconds the display will revert to the Master Display.

MANUAL BASS TONE SELECT

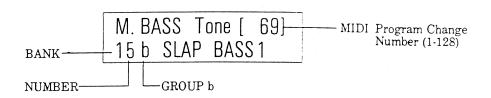
To select the Manual Bass tone, press the MANUAL BASS button [38] in the TONE SELECT section (LED lights). The display will indicate the MANUAL BASS tone in use:



To change any of the 128 tones, select either Group a or b by pressing the GROUP a/b button, then press a BANK button for the first digit and a NUMBER button for the second.

Example: To select 15b SLAP BASS 1 tone

Ensure that Group b appears to the right of the Manual Bass tone number in the display, press BANK button 1 and then NUMBER button 5. The display will respond with:



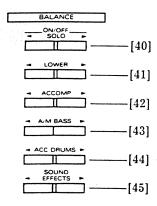
After a few seconds the display will revert to the Master Display

<Notes On Tone Selecting>

- * After pressing the SOLO, LOWER or MANUAL BASS SELECT button, the display will continue to show that tone condition until a selection using the BANK, NUMBER (or GROUP a/b) buttons is made.
- * Selecting either SOLO, LOWER or MANUAL BASS keyboard mode will automatically light the SOLO, LOWER or MANUAL BASS Tone Select button respectively.
- * The procedures (pressing BANK, NUMBER and GROUP a/b buttons) can be carried out in any order you wish).
- * On selecting either SOLO, LOWER or MANUAL BASS tones, if the Group, BANK or the NUMBER is the same as the previous tone, there is no need to press that button.
- * If the LED of the desired Select button is lit, there is no need to press that button again before pressing BANK, NUMBER and GROUP a/b buttons, simply press the two numbers (plus GROUP a/b if necessary) of the particular tone you require.
- * The SOLO, LOWER and MANUAL BASS tone select procedures are the same with or without the Style playing.
- * Changing the MANUAL BASS tone will not affect the preset Accomp Bass tone played by the ARRANGER.

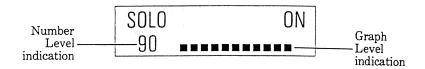
TONE BALANCE

The volumes of SOLO, LOWER and MANUAL BASS tones can be controlled by the buttons "▷" and "▷" in the BALANCE section [1].



SOLO BALANCE

To adjust the volume of the SOLO tone, press either SOLO "▷" button or "▷" button [44]. The display will respond with:



Press either SOLO " \triangleright " button to increase or " \triangleleft " button to decrease the volume.

Pressing either SOLO "▷" or "▷" buttons will cause the number and graph indication to increase or decrease.

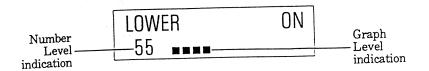
To quickly turn off the Solo tone, press SOLO "▷" and "▷" buttons simultaneously. The display will respond with:



To turn the Solo tone on again, press SOLO "▷" and "▷" buttons again simultaneously.

LOWER BALANCE

To adjust the volume of the LOWER tone, press either LOWER "▷" button or "▷" button [41]. The display will respond with:



Press either LOWER ">" button to increase or "<" button to decrease the volume.

Pressing either LOWER ">" or "<" buttons will cause the number and graph indication to increase or decrease.

To quickly turn off the LOWER tone, press LOWER ">" and "<" buttons simultaneously. The display will respond with:



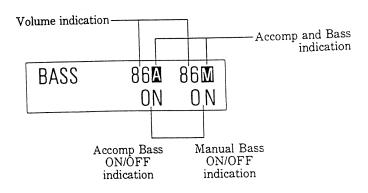
To turn on again the LOWER tone, press LOWER "▷" and "▷" buttons again simultaneously.

* In the above balance procedures, after a few seconds if neither "▷" or "▷" button is pressed, the Master Display will return.

MANUAL BASS BALANCE

Accomp and Manual Bass volume can both be adjusted in one operation.

Press either A/M BASS "▷" or "▷" button [43] and the display will respond with:



To adjust the volume of both the Accomp and Manual Bass, press either A/M BASS "▷" button to increase or "▷" button to decrease both volumes.

Pressing either A/M BASS "▷" or "▷" buttons will cause both Volume indication numbers to increase or decrease.

To quickly turn off both the Accomp and Manual Bass tone, press A/M BASS "▷" and "▷" buttons simultaneously. The display will respond with:

BASS 86M 86M OFF OFF

To turn on again both the Accomp and Manual Bass tone, press A/M BASS "▷" and "▷" buttons again simultaneously.

To adjust the volume of the Manual Bass tone (M) separately requires the Accomp Bass balance function to be disabled. (See ACCOMP BASS BALANCE ENABLE in FUNCTIONS).

With the Accomp Bass Balance function turned off, pressing either A/M BASS ">" or "<" button the display will respond with:

Accomp Bass balance function turned off

BASS 86 M
ON ON

Press either A/M BASS "▷" button to increase or "▷" button to decrease the Manual Bass Volume.

Pressing either A/M BASS "▷" or "▷" buttons will cause the Manual Bass Volume indication number to increase or decrease but will not affect the volume condition of the Accomp Bass.

To quickly turn off just the Manual Bass tone, press A/M BASS "▷" and "▷" buttons simultaneously. The display will respond with:

BASS	86 M	86
	OFF	ON

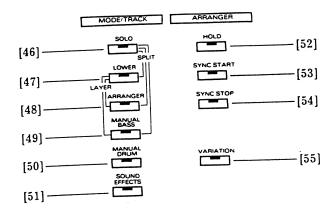
To turn on again in the Manual Bass tone, press A/M BASS "▷" and "▷" buttons again simultaneously.

* In the above balance procedures, after a few seconds if neither "▷" or "◁" button is pressed, the Master Display will return.

ARRANGER SECTION

Your PRO-E is also equipped with a unique built-in ARRANGER section with a total of 32 Music Styles.

Each Music Style includes a Drum track, Bass line and Orchestral accompaniment and preset tempo. You can select between the basic Style (original) and Variation (see VARIATION). The Arranger supplies the Orchestral Accompaniment with a choice of simple or Advanced arrangements (see ADVANCED ARRANGER). HOLD automatically holds the notes you play until new notes are played (see HOLD).



ARRANGER Mode

To play in the Arranger mode, press the ARRANGER button [48] in the MODE/TRACK section (Orange LED lights). This will introduce orchestral accompaniment from chords played on the keyboard. The display will indicated the chord and type that is played. For example:

16 FUNK 2 J = 140

XX XX XX X F Ma

Arranger Chord and Type Indication

The chords recognized on the PRO-E are as follows:

Major (Ma)
Minor (mi)
Seventh (7)
Minor seventh (mi7)
Major seventh (Ma7)
Minor seventh b5th (0)
Diminished (Dim)
Augmented (Aug)
Suspended fourth (Su4)
Suspended seventh (Su7)

If notes are played which cannot be recognized as one of the above chord types by the PRO-E, the root of the chord along with asterisks will appear in the display:

The Arranger can be played either by conventional chords of by using CHORD INTELLIGENCE. CHORD INTELLIGENCE enables you to play chords with just a finger or two. The CHORD INTELLIGENCE system let's you play major, minor, seventh, minor seventh, major seventh, minor seventh b5th, diminished, augmented, suspended fourth and suspended seventh chords. The CHORD INTELLIGENCE is always OFF when the PRO-E is switched on. To turn this feature ON, see ARRANGER CHORD INTELLIGENCE in FUNCTIONS.

ADVANCED ARRANGER

Each Music Style includes two types of arrangements - Simple and Advanced. Pressing the ADVANCED ARANGER button [22] will select between the two arrangements. (LED will light when the Advanced arrangement is selected).

VARIATION

Pressing the VARIATION button [55] (LED lights) will give a variation to each part of the Music Style (Drum track, Bass line and accompaniment). To return to the basic (original) Style, press the VARIATION button once more (LED is turned Off).

FILL-IN

While playing the basic (original) Style, a Fill-in can be inserted by pressing the FILL-IN "TO ORIGINAL" button [23]. This will result in a one measure fill-in and on completion will return to the basic Style.

While playing in the Variation, pressing the FILL-IN "TO VARIATION" button will result in a one measure fillin and then on completion will return to the Variation.

If playing in the basic (original) Style and the FILL-IN "TO VARIATION" button is pressed, a one measure fill-in will occur and on completion will automatically proceed into the Variation of the Style (VARIATION LED lights). Likewise if playing in the Variation of a Style and the FILL-IN "TO ORIGINAL" button is pressed, a one measure fill-in will occur and on completion will automatically return to play the original Style (VARIATION LED is turned off).

* If either of the FILL-IN buttons are pressed within the 1st and 3rd beats (1st and 2nd on Waltz 3/4 Styles and 1st only on Polka 2/4 Style), the fillin will be performed for the remainder of that measure. If either of the FILL-IN buttons are pressed within the 4th beat (3rd on Waltz Styles), this operation will be interpreted as a preselection of the fill-in to start at the downbeat of the next measure.

The Fill-in to Variation/Original can be performed by the optional footswitch (See FOOTSWITCH ASSIGN in FUNCTIONS). When using the footswitch the Fill-in will be automatic. When playing in the original style, pressing the footswitch will introduce the Fill-in To Variation. When playing in the Variation of the Style, pressing the footswitch will introduce the Fill-in To Original.

BREAK MUTE

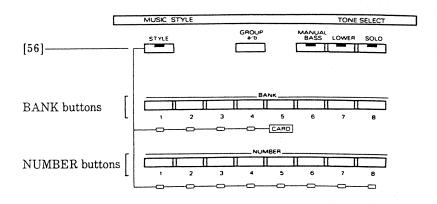
While playing the style in any of the Arrangements, pressing the BREAK MUTE/TAP TEMPO button [24] will result in a one measure (bar) (silent) break (four beats in a 4/4 Style, three in a 3/4 Style and two in a 2/4 Style).

- * If the button is pressed within the 1st and 3rd beats (1st and 2nd on Waltz 3/4 Styles and 1st only on 2/4 Styles), the break will be performed for the remainder of that measure. If the button is pressed within the 4th beat (3rd on Waltz Styles and 2nd on 2/4 Styles), this operation will be interpreted as a preselection of the break to start at the downbeat of the next measure).
- * The Break Mute feature can also be operated from the optional footswitch (see FOOTSWITCH ASSIGN in FUNCTIONS).

HOLD

Pressing the HOLD button [52] in the ARRANGER section (LED lights) will activate a memory circuit which will continue to play the chord after the keys are released. It will memorize and hold the notes until the next note(s) is played.

MUSIC STYLE SELECT



The instrument will automatically select 16 FUNK 2 when it is turned on. To select a different Music Style from the 32 in the MUSIC STYLE TABLE, press the STYLE button [56] in the STYLE SELECT section (LED lights), then press a BANK button for the first digit and NUMBER button for the second. The display will indicate the new Style selected.

Example: To select 44 CHA CHA Style

Ensure that the STYLE select LED is lit, press BANK button 4 and then NUMBER button 4. The display will respond with the new Style and preset tempo:

44 CHACHA J = 140 xx xx xx

- * The above procedure (pressing BANK and NUMBER buttons) can be carried out in any order you wish.
- * On selecting a new Style, if the BANK or the NUMBER is the same as the previous Style, there is no need to press that button.
- * A new Style can be selected WI-THOUT stopping the Style already playing by simply pressing the appropriate BANK and NUMBER buttons.
- * With this operation, the new Style will not be played in the Styles preset tempo, but will follow the tempo set by the previous Style.

Additional Styles can be obtained from optional Music Style Cards available from your Roland dealer. To select the additional Styles, see MUSIC STYLE CARD.

STARTING THE STYLE

The Style can be started in three ways:

- 1. Press the START/STOP button [26] and the Style will start immediately
- 2. Press the SYNC START button [53] (see SYNC START) (LED lights). Then press a key on the keyboard. The Style will automatically start.
- 3. Press the INTRO/ENDING button [25]. The Style will begin with a musical «introduction», length of which depends on the Style selected.

TEMPO LEDs

While the Style is playing, the Tempo LEDs [15] to the left of the display will visually count out the tempo set, the downbeat (first beat) of the measure flashes red, while the remaining three beats flash green. When using a Waltz (3/4) Style, the first beat flashes red, while the following two beats, flash green (the fourth not being used). When using a POLKA (2/4) style, the first beat flashes red, while the second beat flashes green (the third and fourth not being used). When the Style is stopped, the first LED (red) will visually flash the beat of the tempo set. Each Style contains different lengths of patterns, two, three, four, six, eight measures etc. To assist the player, the TEMPO LEDs will also indicate the beginning of each pattern by all four LEDS (one red and three green) flashing together.

TEMPO CONTROL

To change the tempo, use the TEMPO/FUNCTION Dial [27] located beneath the display. Turn the Dial counterclockwise to decrease and clockwise to increase the tempo. The numbers at the top-right of the display will indicate the tempo in BPM (beats per minute).

Example:

= 140. This means that 140 quarter notes (crotchets) will be played within one minute.

The TEMPO range available is from 20 to a maximum of 250.

TAP TEMPO

The tempo of a Style can also be set by using the TAP TEMPO feature just like the tapping of a Conductors baton in an Orchestra.

While the Style is stopped (START/STOP LED off), press the BREAK MUTE/TAP TEMPO button [24] in the tempo you wish the Style to play Four beats for 4/4 Styles, three beats for 3/4 (Waltz) Styles, two beats for 2/4 (Polka) style, the Tempo LEDs will flash accordingly. The Tempo number in the display will automatically change to the tempo set and the Style can now be started in any of the above three ways.

- * The Tap Tempo procedure will only operate when the Style is stopped. When the Style is playing, pressing the BREAK MUTE/TAP TEMPO button will result in a one measure break (see BREAK MUTE).
- * The Tap Tempo feature can also be operated from the optional footswitch (see FOOTSWITCH ASSIGN IN FUNCTIONS).

SYNC START

Pressing the SYNC START button [53] will synchronize the start of the Style when a key is played on the keyboard. The SYNC START button can also be selected before pressing the INTRO/ENDING button (INTRO/ENDING LED will begin to flash); pressing a key will now start the Style with an "introduction".

* Sync Start can be used along with Sync Stop for some interesting effects (see SYNC STOP).

INTRO/ENDING

Without the Style playing, pressing the INTRO/ENDING button [25] will start the Style which will begin with a musical "introduction", length of which depends on the Style selected.

When the INTRO/ENDING button is pressed with the Style playing, a musical "ending" will begin at the next downbeat, the length of which depends on the Style selected.

* INTRO and ENDING can also be operated from the optional footswitch (see FOOTSWITCH ASSIGN in FUNCTIONS).

STOPPING THE STYLE

The Style can be stopped in three ways:

- 1. Press the START/STOP button and the Style will stop immediately.
- 2. Press the INTRO/ENDING button. At the next downbeat the Style will perform a musical "ending", the length of which depends on the Style selected.
- Press the SYNC STOP button [54] (LED lights). Now when the keys are released the Style will stop immediately (see SYNC STOP).

SYNC STOP

When the SYNC STOP button [54] is pressed (LED lit), the Style will stop immediately the keys are released. The style can then be started in any of the three ways above.

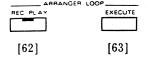
- * The Sync Stop feature will operate even if the HOLD button is lit.
- * The Sync Stop feature can be used along with the Sync Start for some interesting effects (see SYNC START).

NOTE: The drum track of each Style can also be used alone with the above features - Start and Stop, Variation, Intro/Ending, Fill-in, Break Mute and Tap Tempo.

ARRANGER LOOP

The Arranger Loop is a Real Time sequencer which allows a chord progression played with Arranger to be recorded in Real Time and played back repeatedly in Real Time without stopping the Style. What is recorded is only the chord progression so other features Style select, Fill-In, Break Mute, melody, etc. must be performed again on playback.

- 1. While playing the style, press REC/PLAY button [62] (Red LED starts to flash. Arranger Loop is now in ready condition for recording.
- 2. When you wish to start the recording press the Arranger Loop EXECUTE button [63]. (Red LED of REC/PLAY button will light constantly).
- 3. When you wish to stop recording, press REC/PLAY button once more. Red LED will now change to green and will flash. Arranger Loop is now in ready condition for loop play.
- 4. When you wish the Arranger Loop play to start, press EXECUTE button. (Green LED lights constantly.) Loop play will begin on the next dowbeat. The Arranger Loop will play repeatedly till stopped.
- * If you wish to go direct from loop record to loop play, just press EXE-CUTE button after recording. Again loop play will begin on the next downbeat.
- 5. To stop the Arranger Loop play, press the REC/PLAY button one more time (REC/PLAY green LED will be turned off).
- * The last sequence recorded in the Arranger Loop can be played back again and again even after the Style has been stopped or even if the PRO-E has been switched off and on. Just press REC/PLAY button twice (green LED flashing) and then press EXECUTE.



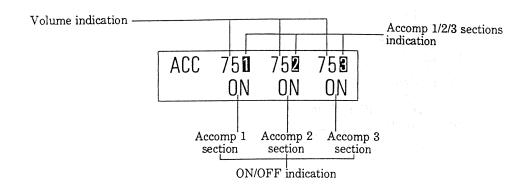
- * Arranger Loop recording and play can be performed while the style is playing or stopped. To record loop immediately when style is started, press REC/PLAY button, press EXECUTE, then press START/STOP. To play loop immediately before style is started, press REC/PLAY button twice, press EXECUTE, then press START/STOP.
- * The Arranger Loop can record up to approx. 32 measures.
- * If the REC/PLAY or EXECUTE button is pressed in the middle of the measure, the REC/PLAY will be turned off (LED not lit). On play of that particular Loop, the whole of that measure will be played.
- * If the Style is stopped during Loop record, the REC/PLAY will be turned off (LED not lit). On play of that particular Loop, the whole of the measure, when the Style was stopped, will be played.
- * The EXECUTE procedure can be carried out by the optional footswitch (See FOOTSWITCH ASSIGN in FUNCTIONS).

STYLE VOLUME BALANCE

While stopped or while playing, the volumes of each section of the Style (Accomp, Accomp Bass and Drums) can be modified by using the appropriate "▷" and "<" buttons in the BALANCE section.

ACCOMPANIMENT BALANCE

The Arrangement is divided into three sections - Accompaniment 1, 2 & 3. The Accompaniment 3 is the basic (simple) Arrangement (ADVANCED ARRANGER LED off) and Accompaniments 1 and 2 are the Advanced Arrangements (ADVANCED ARRANGER LED lit). The volumes of these different sections can be adjusted in one operation, press either ACCOMP "▷" or "▷" button [42]. The display will respond with:



Press either ACCOMP "▷" button to increase or "▷" button to decrease all three volumes.

Pressing either ACCOMP "▷" or "▷" buttons will cause all three Volume indication numbers to increase or decrease

To quickly turn off all three Accomp sections, press ACCOMP "▷" and "▷" buttons simultaneously. The display will respond with:

ACC	75 0	75 2	75 8
	OFF	OFF	OFF

To turn on again all three Accomp sections, press ACCOMP "▷" and "<" buttons again simultaneously.

To adjust or turn OFF/ON separately the volume of Accomp 1, 2 or 3, the other sections that you don't wish to change must be disabled (See ACCOMP 1/2/3 BALANCE ENABLE in FUNCTIONS).

With the Accomp sections balance functions not required turned off, for example — Accomp 2 & 3, pressing either ACCOMP button, ">" or "<" button, the display will respond with:

Accomp 2 & 3 sections turned off.

ACC 751 75 75

ON ON ON

Press either ACCOMP "▷" button to increase or "▷" button to decrease the volume of Accomp 1.

Pressing either ACCOMP ">" or "<" buttons will cause the Accomp 1 Volume indication number to increase or decrease.

To quickly turn off the Accomp 1 section, press ACCOMP "▷" and "▷" buttons simultaneously. The display will respond with:

ACC 75**1** 75 75 OFF ON ON

To turn on again the Accomp 1 section, press ACCOMP " \triangleright " and " \triangleleft " buttons again simultaneously.

To adjust or turn OFF/ON the volumes of Accomp 2 & 3 sections, follow the same procedure as above for Accomp 1 section, ensuring that the Accomp section you do not wish to change has been disabled in FUNCTIONS.

ACCOMP BASS BALANCE

Accomp and Manual Bass volume can both be adjusted in one operation.

To adjust the volume of the Accomp Bass tone (A) separately requires the Manual Bass balance function to be disabled. (See MANUAL BASS BALANCE ENABLE in FUNCTIONS).

With the Manual Bass Balance function turned off, pressing either A/M BASS "▷" or "▷" button [43] the display will respond with:

BASS

86 86 Manual Bass balance function turned off

Press either A/M BASS "▷" button to increase or "▷" button to decrease the Accomp Bass volume.

Pressing either A/M BASS ">" or "">" buttons will cause the Accomp Bass Volume indication number to increase or decrease but will not affect the volume indication of the Manual Bass

To quickly turn off just the Accomp Bass tone, press A/M BASS "▷" and "▷" buttons simultaneously. The display will respond with:

BASS	86 A	86
	OFF	ON

To turn on again the Accomp Bass tone, press A/M BASS "▷" and "▷" buttons again simultaneosly.

* In the above balance procedures, after a few seconds if neither "▷" or ▷" button is pressed, the Master Display will return.

ACCOMP DRUM BALANCE

To adjust the volume of the accompaniment drums requires only one operation (similarly to Solo and Lower), press either ACC DRUMS ">" button or "<" button or "<1" button [44]. The display will respond with:



Press either ACC DRUMS "▷" button to increase or "▷" button to decrease the volume.

Pressing either ACC DRUMS ">" or "">" or "">" buttons will cause the number and graph indication to increase or decrease.

To quickly turn off the Drums, press ACC DRUMS "▷" and "▷" buttons simultaneously. The display will respond with:

ACC DRUMS OFF

To turn the Drums on again, press the ACC DRUMS "▷" and "▷" buttons again simultaneously.

* In the above balance procedures, after a few seconds if neither "▷" or "▷" button is pressed, the Master Display will return.

SOLO/ARRANGER Mode

To play in the SOLO/ARRANGER Mode, press the SOLO and ARRAN-GER buttons simultaneously (both Orange LEDs will light). The keyboard will now be in a 'Split' condition, that is a SOLO tone can be played on the right-hand side of the keyboard and the Arranger played on the left. With both the SOLO and ARRAN-GER Orange LEDs lit, the keyboard will now be split between the $F \neq 2$ and G2 keys in the second octave. The keys from the bottom note to and including F#2 will be used to play the Arranger. The tone now sounding from and including the G2 key upwards is known as the Solo. To select a different SO-LO tone or Music Style, see TONE SELECT.

* In this mode, only the keys to the right of the 'split' can be played dynamically.

LOWER/ARRANGER Mode

To play in the LOWER/ARRANGER Mode, press the LOWER and ARRANGER buttons simultaneously (both orange LEDs will light). The keyboard will now be in a 'Layered' condition, that is when a chord is played both the LOWER tone and ARRANGER will sound together.

- * In the above mode, all of the 37 keys can be played dynamically, but this will only affect the Lower tones. However, interesting effects can be obtained
- * When using INTRO/ENDING, the Lower Mode will be temporarily cancelled.

MANUAL DRUMS Mode

To play the keyboard in Manual drums mode, press the MANUAL DRUMS button [50] in the MODE/TRACK section (orange LED lights). Now all the 30 drum instruments can be played manually from the keyboard. All the drum instruments can be played dynamically, that is the harder you play any key the louder the drum will sound.

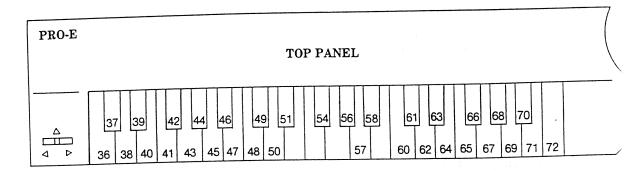
Underneath, at the front section of the keyboard, you will find the names of the instrument each key represents. Each of these instruments can be played without or in conjunction with the Music Style.

When the MANUAL DRUM button is pressed with the Style playing, the Accomp and Accomp Bass will be cancelled. Manual drums can then be played along with the Style rhythm. If the HOLD button was pressed (LED lit) prior to pressing the MANUAL DRUM button, the chord playing of the Style will remain and cannot be changed until the ARRANGER button in the Mode is pressed.

To cancel the Manual Drums, just press any other button in the MODE/TRACK section.

The assignment of the drum sounds are shown in the following illustration. The number represents the MIDI note number.

MANUAL DRUM SOUNDS AND KEY ASSIGNMENT

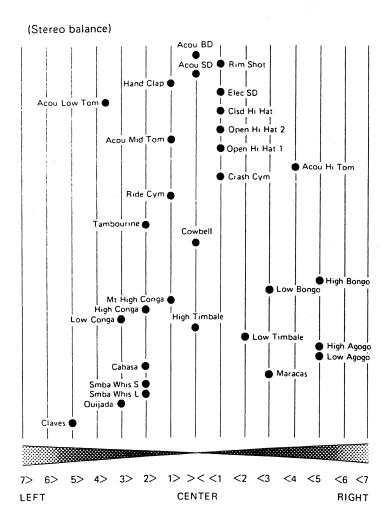


- 36: Acou BD (Acoustic Bass Drum)
- 37: Rim Shot
- 38: Acou SD (Acoustic Snare Drum)
- 39: Hand Clap
- 40: Elec SD (Electric Snare Drum)
- 41: Acou Low Tom (Acoustic Low Tom)
- 42: Clsd Hi Hat (Closed Hi-Hat)
- 43: Acou Low Tom (Acoustic Low Tom)
- 44: Open Hi Hat2
- 45: Acou Mid Tom (Acoustic Medium Tom)
- 46: Open Hi Hat1
- 47: Acou Mid Tom (Acoustic Medium Tom)
- 48: Acou Hi Tom (Acoustic High Tom)
- 49: Crash Cym (Crash Cymbal)
- 50: Acou Hi Tom (Acoustic High Tom)
- 51: Ride Cym (Ride Cymbal)
- 54: Tambourine
- 56: Cowbell
- 57: Quijada (N° 57 & N° 73 on rx) 58: Claves (N° 58 & N° 75 on rx)
- 60: High Bongo
- 61: Low Bongo
- 62: Mt High Conga (Muted High Conga)
- 63: High Conga
- 64: Low Conga
- 65: High Timbale
- 66: Low Timbale
- 67: High Agogo
- 68: Low Agogo
- 69: Cabasa
- 70: Maracas
- Smba Whis S (Samba Whistle Short)
- 72: Smba Whis L (Samba Whistle Long)

The volume balance of the Manual Drums is affected only by playing dynamically from the keyboard (The Manual Drums volume cannot be adjusted by the ACC DRUMS volume balance).

<Reference>

Stereo Balance of the Drum sounds.



SOUND EFFECTS Mode

The PRO-E features 33 Stereo Sound Effects plus 4 Effect Mixtures. The Sound Effects can be used alone or as effect to accompany a song.

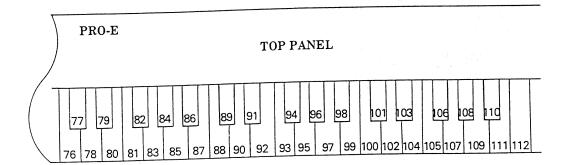
To play the keyboard in the Sound Effects Mode, press the SOUND EFFECTS button [51] in the MODE/TRACK section (orange LED lights). The keys from the lowest C up to and including G#3 will produce 33 different Sound Effects. The four uppermost keys (A3~C4) will produce a mixture of different effects. Each of the Effects can be dynamically played.

Each sound can be heard briefly by quickly pressing the key. However to hear the full effect, press and hold the key. Each effect is in stereo and on certain effects the sound travels from one side to the other (Train, Helicopter, etc).

Each Sound Effect can be held, even if you release the key by pressing the HOLD button [57] in the SOUND EFFECTS section while the key is played (LED will light). To cancel the Effect, press the HOLD button again (LED turned off).

A total of four different Sound Effects (four keys) can be played at one time (except the top four notes which are already 4 Effect Mixtures). This way, interesting sounds effects can be made. The assignement of the Sound Effects are shown in the following illustration. The number represents the MIDI note number.

SOUND EFFECTS AND KEY ASSIGNMENT



76: Laughing77: Screaming 78: Punch 79: Heartbeat 80: Footsteps 1 81: Footsteps 2 82: Applause 83: Creaking 84: Door 85: Scratch 86: Windchime 87: Engine 88: Car Skid 89: Car Pass 90: Crash 91: Siren 92: Train 93: Jet 94: Helicopter 95: Starship 96: Pistol 97: Machine Gun 98: Laser Gun 99: Explosion 100: Dog 101: Horse Gallop 102: Birds 103: Rain 104: Thunder 105: Wind 106: Waves 107: Stream 108: Bubble 109: Storm 110: War Mixtures

111: Thriller 112: Wonderland The Sound Effects can also be played from the 12 Sound Effects 'pads' (buttons) a~l in the SOUND EFFECTS section. The Sound Effects printed above the pads are the sound preset from the factory. However, any of the 37 Sound Effects played from the keyboard can be assigned to any of the 12 pads.

To assign a particular Sound Effect from the keyboard to the pads, press the key which contains the desired Sound Effect and while holding the key, press any one of the 12 pads (a~l) you wish to assign the Effect to. When that particular pad is played, the factory set Effect will now be cancelled and the newly assigned Effect will be heard.

- * The assigning of Sound Effects from the keys to the pads can be carried out again and again. However, turning the instrument off will erase any assignment you have made to the pads. If you wish to save any assignments you have made, these can be recorded into the User Programs.
- * Unlike the keys, the pads cannot be played dynamically, pressing a pad will give the full volume of that effect
- * The Sound Effects played from the pads can be held by the same procedure as the keys by pressing the HOLD button while pressing a pad.
- * The Sound Effects are made up of the following sounds:
 - a) Continuous sound (Sustained sounds Rain, Stream, etc).
 - b) Interrupted sound (Rythmic sounds Footsteps, Gun Shot, etc.)

The interrupted sounds can be synchronized to the Style tempo. Raising the tempo will increase the speed of certain effects or how often the effect is played. The tempo synchronization is ON when the PRO-E is turned on, to turn OFF the Style sync, see SOUND EFFECTS Style sync in FUNCTIONS.

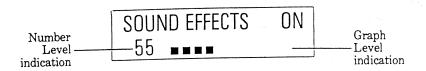
1888 - Francisco (1888) Standstoff (1888)

SOUND EFFECTS PADS ASSIGNMENT



SOUND EFFECTS VOLUME BALANCE

To adjust the volume of the SOUND EFFECTS, press either SOUND EFFECT ">" button or "<" button [45]. The display will respond with:



Press either SOUND EFFECTS "▷" button to increase or "▷" button to decrease the volume.

Pressing either SOUND EFFECTS ">" or "<" buttons will cause the number and graph indication to increase or decrease.

To quickly turn off the SOUND EFFECTS volume, press LOWER "▷" and "◁" buttons simultaneously. The display will respond with:

SOUND EFFECTS OFF 55

To turn on again the volume of the SOUND EFFECTS, press the SOUND EFFECTS "▷" and "▷" buttons again simultaneously.

- * After a few seconds if neither "▷" or "▷" button is pressed, the Master Display will return.
- * The volume change of the continuous SOUND EFFECTS (Applause, Rain etc.) will not take effect until these particular Sound Effects have begun to re-loop.

PITCH BENDER/ MODULATION LEVER

By moving the Pitch Bender/Modulation lever [28], bending of the 128 tones can be obtained. Moving the lever to the right raises the pitch and moving the lever to the left lowers the pitch of the note. If the lever is released (central position), the note returns to normal pitch. This lever can be used to give a guitar bending effect or the sliding of the trombone and is used often in modern synthesizer playing.

The range of the Pitch (when the lever is moved left or right) can be adjusted (see Pitch Bender Range in FUNCTIONS).

Pushing the same lever away from you will add modulation (vibrato/tremolo) to the each tone. Releasing the lever will cancel the modulation effect.

VIBRATO or TREMOLO

MODULATION

PITCH LOWERED

BENDER

PITCH RAISED

MELODY INTELLIGENCE

Pressing the MELODY INTELLIGENCE button [28] (LED lit) automatically adds a musical counter-melody note to single-note melodies. MELODY INTELLIGENCE will only function when in ARRANGER or SOLO /ARRANGER Mode or in ARRANGER LOOP Mode. The feature operates with or without the Style playing. The harmonizing notes added to the melody are programmed by the type of chord that you play on the keyboard when in either SOLO or SOLO/ARRANGER mode.

MELODY INTELLIGENCE will only function while a note(s) is played in the Solo section together with a recognized Chord in the Arranger section or held with the HOLD feature.

Pressing the same button again will turn off MELODY INTELLIGENCE (LED turned off).

REVERB EFFECT

The PRO-E also has a Digital Reverb unit built-in. The Reverb feature can be assigned (turned On/Off) for certain parts of the keyboard (see REVERB PART ASSIGN). There is also a choice of Reverb types (see REVERB TYPE).

The Reverb will be set up as follows when the instrument is turned on.

REVERB — On (LED on) REVERB PART ASSIGN

- SOLO part YES
- LOWER part YES
- DRUMS part YES
- SOUND EFFECTS part YES REVERB TYPE - Room 2

REVERB ON/OFF

To turn off the Reverb effect completely, press the ON/OFF button [58] in the REVERB section (LED off). Pressing the same button again will turn on the Reverb effect (LED on).

REVERB TYPE

To change the type of Reverb effect, press and hold the TYPE button [59] in the REVERB section. The display will respond with:

> REVERB type 2 = Roorn 2

While continuing to hold the TYPE button, press the CURSOR button, the number to the left of the display will start to flash. Using the TEMPO/FUNCTION Dial [27], turn clockwise or counterclockwise to select the desired Reverb Type.

The eight types of Reverb effect available are as follows:

1 = Room 1

2 = Room 2

3 = Hall 1 (turn-on setting)

4 = Hall 25 = Plate 1

6 = Plate 2

7 = Delay 1

8 = Delay 2

The display will indicate the Reverb effect chosen.

REVERB PART ASSIGN

To control the REVERB on/off for individual parts of the keyboard, press and hold the REVERB TYPE button [59]. The display will respond with:

REVERB type 2 = Room 2

Using the TEMPO/FUNCTION Dial [27], turn the Dial clockwise or counterclockwise, until the part you wish to change appears in the display.

To turn off the Reverb effect for the SOLO tones, turn the Dial until the following display appears:

SOLO part REVERB ON

While continuing to hold the TYPE button, press the CURSOR button, the ON/OFF will start to flash. Turn ON or OFF using the Dial. The display will indicate the ON/OFF setting.

To change the Reverb assign for the other parts, follow the same procedure as for the SOLO part.

LOWER part REVERB ON

MANUAL BASS part REVERB ON

DRUMS part REVERB ON

SOUND EFFCT part REVERB ON

Releasing the REVERB TYPE button will return the display to the Master Display.

* REVERB ON/OFF and REVERB TYPE can be recorded into the USER PROGRAMS.

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FADE

This feature [18] enables the whole sound (Style, Tone, etc.) to fade in or out.

FADE OUT

To fade out press the FADE OUT button [61] (LED starts to flash). The fade out will start from the maximum volume selected by the Master Volume control and fade to "0" volume. When fade out is completed the LED of the FADE OUT button will light constantly.

To place the PRO-E in the playing mode again press the FADE OUT button once more (LED will be turned off).

- * When the fade out is completed (LED lit constantly) turning the Master Volume control to 0 will cancel the FADE OUT button (LED off).
- * Fade out can also be enabled by the footswitch (see FOOTSWITCH ASSIGN).

FADE IN

To fade in press the FADE IN button [60] (LED starts to flash). The fade in will immediately start from 0 volume and will continue to the maximum volume set by the Master Volume control. When fade in is completed, the LED of the FADE IN will be turned off.

- * Fade in can be enabled during the fade out, the fade in will start at the volume level of fade out when the FADE IN button was pressed.
- * Likewise, the fade out can be enabled during the fade in, the fade out will start at the volume of fade in when the FADE OUT button was pressed.

TEMPO/FUNCTION DIAL

When the Master Display is showing, this control [27] is used to adjust the tempo of the Style.

When the MIDI button is pressed, this control is used to select the function and by moving the Cursor (pressing CURSOR button) to the Values /Channels (flashing) it is then used to modify the data.

When the PARAMETER button is pressed, this control is used to select the function and by moving the Cursor (pressing CURSOR button) to specific data (flashing) it is then used to modify the data.

TRANSPOSE

The Transpose feature lets you play in one key and hear the music in another key. STANDARD pitch C (0 shift) is always selected when the instrument is turned on.

To Transpose the PRO-E, press the TRANSPOSE button [12] and hold: After one second the display will change to:

TRANSPOSE

_Amount of Pitch shift (flashing)

Rotate the TEMPO/FUNCTION Dial clockwise to raise the pitch and counterclockwise to lower the pitch. The display will indicate which key the PROE has been changed to and the pitch shift change. If the PRO-E has been transposed, upon releasing the TRAN-SPOSE button the LED will be lit. If no changes in Pitch have been made (in C, 0 shift), the LED will not light.

By switching On and OFF the Transpose feature (LED ON and OFF) it is possible to switch quickly between Standard Pitch and the newly selected pitch.

To return the PRO-E permanently to Standard Pitch (C) perform again the above procedure, rotating the TEMPO/FUNCTION Dial until the display indicates «C 0».

The possible keys and related pitch shift that are selectable are:

C Ø shift (Standard Pitch)

		l1 shift	C #	+	1 shift
	-	10 shift	D	+	2 shift
		9 shift	Eb	+	3 shift
\mathbf{E}	_	8 shift	\mathbf{E}	+	4 shift
\mathbf{F}	_	7 shift	F	+	5 shift
F #		6 shift	F #	+	6 shift
G		5 shift	G	+	7 shift
G#		4 shift	Ab	+	8 shift
Α		3 shift	A	+	9 shift
Bb		2 shift	Bb	+	10 shift
В		1 shift	В	+	11 shift

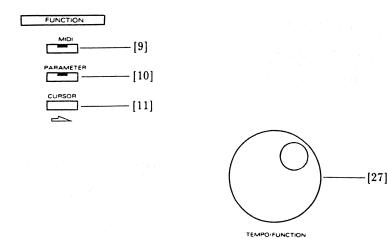
Upon the release of the TRANSPOSE button the display will return to the Master Display.

 TRANSPOSE range settings can be recorded into the USER PRO-GRAMS.

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FUNCTIONS

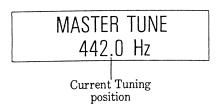
(See page 90 for CHANGING MIDI CHANNELS and FUNCTIONS)



MASTER TUNE

The Master Tune feature enables you to slightly raise or lower the pitch of your PRO-E. This feature is extremely useful when playing with other instruments that may not exactly match the pitch of the PRO-E.

To change the Master Tune, press the PARAMETER button [10] (LED lights), rotate the TEMPO/FUNCTION Dial [27] until the display responds with:



Press the CURSOR button [11], the current tuning position number will begin to flash. Lower or higher the tuning position by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the tuning position change.

The selectable Master Tune range is from 427.5 Hz to 452.6 Hz. "442.0 Hz" being the Standard Master Tune.

To exit the Master Tune operation, press the PARAMETER button once more, LED will be turned off and the Master Display will return.

* Any changes of Master Tune made will be remembered even after the instrument is switched off.

FOOTSWITCH ASSIGN

With the optional footswitch, certain functions of the PRO-E can be controlled by the foot. The input socket [33] for the footswitch is located on the rear panel.

The Sustain function for the footswitch is always set when the instrument is turned on.

To select the different footswitch functions, press the PARAMETER button [10] (LED lights), rotate the TEMPO/FUNCTION Dial until the display responds with:

FOOT SWITCH to =
SUSTAIN

Current Assigned
Function

Press the CURSOR button [11], the current assigned function will begin to flash. Rotating the TEMPO/FUNCTION Dial will 'scroll' through and select the different functions. The possible footswitch functions are as follows:

SUSTAIN
FILL-IN TO ORIGINAL/FILL-IN TO
VARIATION (FO/FV)
TAP TEMPO/BREAK MUTE
(TAP TMP/BRK MUTE)
INTRO/ENDING
STYLE START/STOP
FADE OUT
PUNCH IN
ARRANGER LOOP EXECUTE
(ARR. LOOP EXECUTE)
The display will indicate the function

selected.

PITCH BENDER RANGE

This feature enables you to set the range of Pitch Bender (when using the Pitch Bend Lever).

The PRO-E selects a Pitch Bender range of 2 when it is turned on. Moving the lever to the right will raise the pitch by two semitones and moving the lever to the left will lower the pitch by two semitones.

To change the range of the Pitch Bender, press the PARAMETER button [10], rotate the TEMPO/FUNCTION Dial until the display responds with:

PITCH BENDER
range = 2

Current Pitch
Bend Range

Press the CURSOR button [11], the current Pitch Bend range will begin to flash. Lower or higher the Pitch Bend range by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the Pitch Bend range. The selectable range is from the following:

- 1 = one semitone
- 2 = one tone (turn-on position)
- 3 = one and a half tones
- 4 = two tones
- 5 = two and a half tones
- 6 = three tones
- 7 =three and a half tones
- 8 = twelve semitones (octave)
- * Any changes of the Pitch Bend range made will be remembered even after the instrument is switched off.

To exit the Pitch Bend range operation press the PARAMETER button once more, LED will be turned off and the Master Display will return.

OCTAVE RANGE

The octave position of the SOLO, LOWER and MANUAL BASS parts is appropriately set when the PRO-E is turned on. However this can be changed between a range of 5 octaves (-2 to 3).

SOLO OCTAVE Change

When the PRO-E is turned on, the Octave position of the Solo part is always set to "1". To change the Octave position, press the PARAMETER button [10], rotate the TEMPO/FUNCTION Dial until the display responds with:

SOLO part

octave = 1 Current Octave

Position

Press the CURSOR button [11], the current Octave position will begin to flash. Lower or higher the Octave position by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the change in Octave position.

To exit this operation, press the PARAMETER button once more, LED will be turned off and the Master Display will return.

LOWER OCTAVE Change

When the PRO-E is turned on, the Octave position of the Lower part is always set to "1". To change the Octave position, press the PARAMETER button [10], rotate the TEMPO/.FUNCTION Dial until the display responds with:

LOWER part

Octave = 1 Current Octave

Position

Press the CURSOR button [11], the current Octave position will begin to flash. Lower or higher the Octave position by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the change in Octave position.

To exit this operation, press the PA-RAMETER button once more, LED will be turned off and the Master Display will return.

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MANUAL BASS OCTAVE Change

When the PRO-E is turned on, the Octave position of the Manual Bass part is always set to "-1". To change the Octave position, press the PARAMETER button [10], rotate the TEMPO/FUNCTION Dial until the display responds with:

MANUAL BASS part

octave = 1 Current Octave

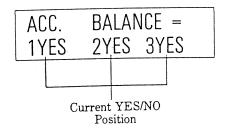
Position

Press the CURSOR button [11], the current Octave position will begin to flash. Lower or higher the Octave position by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the change in Octave position.

To exit this operation, press the PARAMETER button once more, LED will be turned off and the Master Display will return.

ACCOMP 1/2/3 BALANCE

The Accomp. 1/2/3 Balances are always enabled when the instrument is turned on. To disable 1,2,3 or any combination, press the PARAMETER button, rotate the TEMPO/FUNCTION Dial until the following display shows:

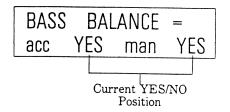


Press the CURSOR button [11] repeatedly until the section 1, 2 or 3 begins to flash. Turn the feature ON or OFF by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the change.

To exit this operation, press the PARAMETER button once more, LED will be turned of and the Master Display will return.

ACCOMP/MANUAL BASS BALANCE

Both the Accomp Bass and Manual Bass Balances are always enabled when the instrument is turned on. To disable either the Accomp or Manual Bass, press the PARAMETER button [10], rotate the TEMPO/FUNCTION Dial until the following display shows:



Press the CURSOR button [11] repeatedly until the section ACCOMP (acc) or MANUAL (man) begins to flash. Turn the feature YES or NO by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the change.

To exit this operation, press the PARAMETER button once more, LED will be turned off and the Master Display will return.

SOUND EFFECTS Style sync

The SOUND EFFECTS style sync is always ON when the PRO-E is turned on, to turn this feature OFF, press the PARAMETER button [10]. Rotate the TEMPO/FUNCTION Dial until the display responds with:

Press the CURSOR button [11], the current ON/OFF position will begin to flash. Turn the feature ON or OFF by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the change.

To exit this operation, press the PARAMETER button once more, LED will be turned off and the Master Display will return.

ARRANGER CHORD INTELLIGENCE

The Arranger can be played either by conventional chords or by using CHORD INTELLIGENCE. CHORD INTELLIGENCE enables you to play chords with just a finger or two. The CHORD INTELLIGENCE system lets you play major, minor, seventh, minor seventh, major seventh, minor seventh b5th, diminished, augmented, suspended fourth and suspended seventh chords. The CHORD INTELLIGENCE is always OFF when the PRO-E is switched on, to turn this feature ON, press the PARAMETER button [10], rotate the TEMPO/FUNCTION Dial until the display responds with:

ARRANGER chord intelligence = OFF-

_Current ON/OFF Position

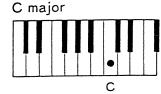
Press the CURSOR button [11], the current ON/OFF position will begin to flash. Turn the feature ON or OFF by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the change.

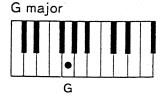
To exit this operation, press the PARAMETER button once more, LED will be turned off and the Master Display will return.

PLAYING INTELLIGENT CHORDS

• Major Chords (Ma)

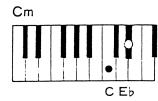
Playing just one key in the lower section of the keyboard will produce the Major chord of the same name; that is, playing C will give you C Major; G will give you G Major, etc.

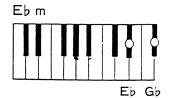




• Minor Chords (mi)

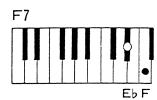
Minor Chords are formed by playing the one-note chord with an added note a minor third higher (three keys to the right).

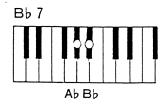




• Seventh Chords (7)

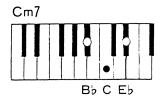
Two-note seventh chords can be formed by playing the one-note Major chord along with the note a whole step (two keys) to the left.

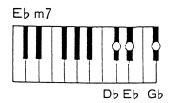




• Minor Seventh Chords (mi7)

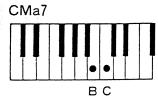
Minor seventh chords are formed by playing the two notes that program a minor chord and then adding another note two keys to the left.

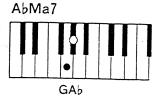




• Major Seventh Chords (Ma7)

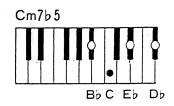
Major seventh chords can be formed by playing the one-note Major chord along with the note immediately to the left.

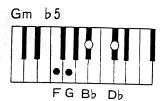




• Minor Seventh b5th Chords (0)

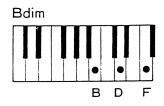
Minor seventh b5th chords are played as four-note chords $% \left(1\right) =\left(1\right) \left(1\right) \left($

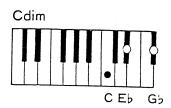




• Diminished Chords (Dim)

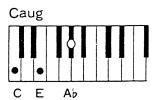
Diminished chords are played as three-note chords.

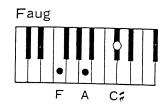




• Augmented Chords (Aug)

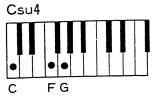
Augmented chords are played as three-note chords.

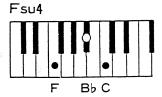




• Suspended Fourth Chords (Su4)

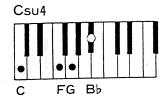
Suspended fourth chords are played as three-note chords.

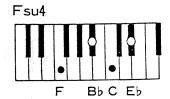




• Suspended Sevent Chords (Su7)

Suspended seventh chords are played as four-note chords.





- * Without turning off the CHORD IN-TELLIGENCE, chords can still be played in the conventional way as well as the easy way described above.
- * PITCH BENDER/OCTAVE range, SOUND EFFECTS Style sync/ CHORD INTELLIGECNE ON/ OFF settings can all be recorded into the USER PROGRAMS

INTERNAL MEMORY Protection

To safeguard any loss in internal data, the Internal Memory of the PRO-E is always protected when the instrument is turned on. To turn off the protection and enable writing of new data, press the PARAMETER button [10], rotate the TEMPO/FUNCTION Dial until the display responds with:

INTERNAL MEMORY

protection = ON Current ON/OFF
Position

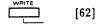
Press the CURSOR button [11], the current ON/OFF position will begin to flash. Turn the protection ON or OFF by rotating the TEMPO/FUNCTION Dial counterclockwise or clockwise. The display will indicate the change.

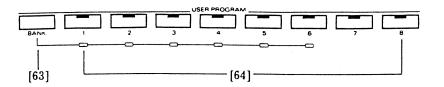
To exit this operation, press the FARMATTERP Description of the counterpress of the PARMATTERP DESCRIPTION of the counterpress of the PARMATTERP DESCRIPTION of the counterpress of the parmatter of the counterpress of the parmatter of the counterpress of the counterpress

To exit this operation, press the PARAMETER button once more, LED will be turned off and the Master Display will return.

USER PROGRAMS

One of the advantages of the PRO-E is its ability to produce a wide variety of instrumental tones and effects. Normally, changing from one tone or effect to another involves activating several buttons. However, with Roland's digital technology, 48 User Programs provided on the instrument enable you to record 48 complete panel registrations of your choice which are recallable at the touch of a button.





The following functions can be recorded into the User Programs:

Solo Tone Lower Tone Manual Bass Tone Nine Volume Balances Style Tempo Variation Advanced Arranger Hold Sync Start Sync Stop Reverb Reverb Type Sound Effect pads Melody Intelligence Transpose Footswitch assign Pitch Bend range Solo Octave Lower Octave Manual Bass Octave Accomp 1/2/3 Balance Enable Accomp/Manual Bass Balance Enable Sound Effects Style sync Chord Intelligence All MIDI Functions

The PRO-E will arrive with 8 factory User Programs in BANK 1 (repeated in Bank 2~6) preset with the following configurations:

FACTORY PRESET USER PROGRAM 11 (Bank 1 - Number 1)

Accomp Bass Balance Enable - YES Solo Tone - 44b Lower Tone - 34b Manual Bass Balance Enable - YES Sound Effects Style sync - ON Manual Bass Tone - 17b Chord Intelligence - OFF Balance Solo - 100 ON Lower - 100 ON MIDI FUNCTIONS Accomp 1 - 75 ON Solo part MIDI Ch = 4 ON Accomp 2 - 75 ON Accomp 3 - 75 ON Solo rx limit low = C0 upp = C8Solo rx note shift = 0 Accomp Bass - 90 ON Lower part MIDI Ch = 3 ON Manual Bass - 90 ON Accomp Drums - 90 ON Lower rx limit low = C0 upp = C8 Sound Effects - 90 ON Lower rx note shift = 0Accomp 1 part MIDI Ch = 5 ON Style - 32 BIG BAND Accomp 1 rx limit low = C0 upp = C8 Tempo - 140 Accomp 1 rx note shift = 0Variation - OFF Accomp 2 part MIDI Ch = 6 ON Advanced Arranger - ON Accomp 2 rx limit low = C0 upp = C8 Hold - ON Accomp 2 rx note shift = 0Sync Start - OFF Accomp 3 part MIDI Ch = 7 ON Sync Stop - OFF Accomp 3 rx limit low = C0 upp = C8 Reverb - ON Accomp 3 rx note shift = 0Reverb Type - HALL 1 Accomp Bass part MIDI Ch = 8 ON Melody Intelligence - OFF A. Bass rx limit low = C0 upp = C8A. Bass rx note shift = 0 Sound Effect pad a - RAIN Manual Bass part MIDI Ch = 2 ON Sound Effect pad b - THUNDER M. Bass rx limit low = C0 upp = C8Sound Effect pad c - WAVES M. Bass rx note shift = 0 Sound Effect pad d - STREAM Drums part MIDI Ch = 10 ON Sound Effect pad e - LAUGHING Drums rx limit low = C0 upp = C8 Sound Effect pad f - SCREAMING Drums rx note shift = 0 Sound Effect pad g - APPLAUSE Sound Effect pad h - JET Sound Effect part MIDI Ch = 11 ON Sound Effect pad i - TRAIN Sound Effect pad j - HELICOPTER Sound Effect rx limit low = C0 upp = C8 Sound Effect rx note shift = 0 Sound Effect pad k - THRILLER RX Only part MIDI Ch = 9 ON Sound Effect pad 1 - WONDERLAND RX Only rx limit low = C0 upp = C8RX Only note shift = 0Transpose - 0 OFF Note To Arranger MIDI Ch = 1 ON Footswitch assign - SUSTAIN Note To A. limit low = C0 upp = B2Pitch Bend range - 2 MIDI SOFT THRU For Local = ON Solo Octave - 1 Style PRG Change MIDI Ch = 10 ON Lower Octave - 1 Style-Tone PRG C rx/tx = ONManual Bass Octave: -1 Accomp 1 Balance Enable - YES MIDI Real Time rx/tx = ONAccomp 2 Balance Enable - YES MIDI Volume CC 7 rx/tx = ONAccomp 3 Balance Enable - YES MIDI VELOCITY rx = 127 ON

FACTORY PRESET USER PROGRAM 12 (Bank 1 - Number 2)

Accomp Bass Balance Enable - YES Solo Tone - 28b Manual Bass Balance Enable - YES Lower Tone - 64b Sound Effects Style sync - ON Manual Bass Tone - 11b Chord Intelligence - OFF Balance Solo - 100 ON Lower - 100 ON MIDI FUNCTIONS Accomp 1 - 75 ON Solo part MIDI Ch = 4 ONAccomp 2 - 75 ON Solo rx limit low = C0 upp = C8Accomp 3 - 75 ON Solo rx note shift = 0 Accomp Bass - 90 ON Lower part MIDI Ch = 3 ON Manual Bass - 90 ON Accomp Drums - 90 ON Lower rx limit low = C0 upp = C8Sound Effects - 90 ON Lower rx note shift = 0Accomp 1 part MIDI Ch = 5 ONAccomp 1 rx limit low = C0 upp = C8Style - 23 16 BEAT 1 Accomp 1 rx note shift = 0Tempo - 75 Variation - OFF Accomp 2 part MIDI Ch = 6 ONAccomp 2 rx limit low = C0 upp = C8Advanced Arranger - ON Accomp 2 rx note shift = 0Hold - ON Sync Start - OFF Accomp 3 part MIDI Ch = 7 ONSync Stop - OFF Accomp 3 rx limit low = C0 upp = C8Reverb - ON Accomp 3 rx note shift = 0Reverb Type - HALL 1 Accomp Bass part MIDI Ch = 8 ON Melody Intelligence - OFF A. Bass rx limit low = C0 upp = C8A. Bass rx note shift = 0 Sound Effect pad a - RAIN Manual Bass part MIDI Ch = 2 ON Sound Effect pad b - THUNDER Sound Effect pad c - WAVES M. Bass rx limit low = C0 upp = C8 M. Bass rx note shift = 0 Sound Effect pad d - STREAM Drums part MIDI Ch = 10 ON Sound Effect pad e - LAUGHING Drums rx limit low = C0 upp = C8 Sound Effect pad f - SCREAMING Drums rx note shift = 0 Sound Effect pad g - APPLAUSE Sound Effect pad h - JET Sound Effect part MIDI Ch = 11 ONSound Effect pad i - TRAIN Sound Effect rx limit low = C0 upp = C8 Sound Effect pad j - HELICOPTER Sound Effect rx note shift = 0 Sound Effect pad k - THRILLER Sound Effect pad l - WONDERLAND RX Only part MIDI Ch = 9 ON RX Only rx limit low = C0 upp = C8 RX Only note shift = 0Transpose - 0 OFF Note To Arranger MIDI Ch = 1 ON Footswitch assign - SUSTAIN Note To A. limit low = C0 upp = B3Pitch Bend range - 2 MIDI SOFT THRU For Local = ON Solo Octave - 1 Style PRG Change MIDI Ch = 10 ON Lower Octave - 1 Style-Tone PRG C rx/tx = ONManual Bass Octave: −1 Accomp 1 Balance Enable - YES MIDI Real Time rx/tx = ONAccomp 2 Balance Enable - YES Accomp 3 Balance Enable - YES MIDI Volume CC 7 rx/tx = ON MIDI VELOCITY rx = 127 ON

FACTORY PRESET USER PROGRAM 13 (Bank 1 - Number 3)

Solo Tone - 67b Accomp Bass Balance Enable - YES Lower Tone - 44 Manual Bass Balance Enable - YES Manual Bass Tone - 16b Sound Effects Style sync - ON Chord Intelligence - OFF Balance Solo - 100 ON Lower - 100 ON MIDI FUNCTIONS Accomp 1 - 75 ON Solo part MIDI Ch = 4 ON Accomp 2 - 75 ON Accomp 3 - 75 ON Accomp Bass - 90 ON Solo rx limit low = C0 upp = C8Solo rx note shift = 0Manual Bass - 90 ON Lower part MIDI Ch = 3 ON Accomp Drums - 90 ON Lower rx limit low = C0 upp = C8Sound Effects - 90 ON Lower rx note shift = 0Accomp 1 part MIDI Ch = 5 ON Style - 15 FUNK 1 Accomp 1 rx limit low = C0 upp = C8Tempo - 104 Accomp 1 rx note shift = 0Variation - OFF Accomp 2 part MIDI Ch = 6 ON Advanced Arranger - ON Accomp 2 rx limit low = C0 upp = C8Hold - ON Accomp 2 rx note shift = 0 Sync Start - OFF Accomp 3 part MIDI Ch = 7 ON Sync Stop - OFF Accomp 3 rx limit low = C0 upp = C8 Reverb - ON Accomp 3 rx note shift = 0Reverb Type - HALL 1 Accomp Bass part MIDI Ch = 8 ON Melody Intelligence - OFF A. Bass rx limit low = C0 upp = C8 A. Bass rx note shift = 0 Sound Effect pad a - RAIN Manual Bass part MIDI Ch = 2 ON Sound Effect pad b - THUNDER M. Bass rx limit low = C0 upp = C8 Sound Effect pad c - WAVES M. Bass rx note shift = 0 Sound Effect pad d - STREAM Sound Effect pad e - LAUGHING Sound Effect pad f - SCREAMING Drums part MIDI Ch = 10 ON Drums rx limit low = C0 upp = C8Sound Effect pad g - APPLAUSE Drums rx note shift = 0 Sound Effect pad h - JET Sound Effect part MIDI Ch = 11 ON Sound Effect pad i - TRAIN Sound Effect rx limit low = C0 upp = C8 Sound Effect pad j - HELICOPTER Sound Effect pad k - THRILLER Sound Effect rx note shift = 0 RX Only part MIDI Ch = 9 ON Sound Effect pad 1 - WONDERLAND RX Only rx limit low = C0 upp = C8RX Only note shift = 0Transpose - 0 OFF Note To Arranger MIDI Ch = 1 ON Footswitch assign - SUSTAIN Note To A. limit low = C0 upp = B3Pitch Bend range - 2 MIDI SOFT THRU For Local = ON Solo Octave - 1 Style PRG Change MIDI Ch = 10 ON Style-Tone PRG C rx/tx = ONLower Octave - 1 Manual Bass Octave: -1 Accomp 1 Balance Enable - YES MIDI Real Time rx/tx = ON Accomp 2 Balance Enable - YES MIDI Volume CC 7 rx/tx = 0 NAccomp 3 Balance Enable - YES MIDI VELOCITY rx = 127 ON

FACTORY PRESET USER PROGRAM 14 (Bank 1 - Number 4)

Accomp Bass Balance Enable - YES Solo Tone - 22b Manual Bass Balance Enable - YES Lower Tone - 84 Sound Effects Style sync - ON Manual Bass Tone - 11b Chord Intelligence - OFF Balance Solo - 100 ON MIDI FUNCTIONS Lower - 80 ON Accomp 1 - 75 ON Solo part MIDI Ch = 1 ONAccomp 2 - 75 ON Solo rx limit low = C0 upp = C8Accomp 3 - 75 ON Solo rx note shift = 0 Accomp Bass - 90 ON Lower part MIDI Ch = 2 OFF Manual Bass - 90 ON Lower rx limit low = C0 upp = C8Accomp Drums - 90 ON Lower rx note shift = 0Sound Effects - 90 ON Accomp 1 part MIDI Ch = 5 ONAccomp 1 rx limit low = C0 upp = C8 Style - 42 BOSSA N Accomp 1 rx note shift = 0Tempo - 120 Accomp 2 part MIDI Ch = 6 ON Variation - OFF Accomp 2 rx limit low = C0 upp = C8Advanced Arranger - OFF Accomp 2 rx note shift = 0Hold - ON Sync Start - OFF Accomp 3 part MIDI Ch = 7 ON Sync Stop - OFF Accomp 3 rx limit low = C0 upp = C8Reverb - ON Accomp 3 rx note shift = 0Reverb Type - HALL 1 Accomp Bass part MIDI Ch = 8 ON Melody Intelligence - OFF A. Bass rx limit low = C0 upp = C8A. Bass rx note shift = 0 Sound Effect pad a - RAIN Manual Bass part MIDI Ch = 3 ON Sound Effect pad b - THUNDER M. Bass rx limit low = C0 upp = C8 Sound Effect pad c - WAVES M. Bass rx note shift = 0 Sound Effect pad d - STREAM Sound Effect pad e - LAUGHING Sound Effect pad f - SCREAMING Drums part MIDI Ch = 10 ON Drums rx limit low = C0 upp = C8 Drums rx note shift = 0 Sound Effect pad g - APPLAUSE Sound Effect part MIDI Ch = 11 ON Sound Effect pad h - JET Sound Effect pad i - TRAIN Sound Effect rx limit low = C0 upp = C8 Sound Effect pad j - HELICOPTER Sound Effect rx note shift = 0 Sound Effect pad k - THRILLER RX Only part MIDI Ch = 9 ONSound Effect pad l - WONDERLAND RX Only rx limit low = C0 upp = C8RX Only note shift = 0Transpose - 0 OFF Note To Arranger MIDI Ch = 2 ON Footswitch assign - START/STOP Note To A. limit low = C0 upp = C8Pitch Bend range - 2 MIDI SOFT THRU For Local = OFF Solo Octave - 1 Style PRG Change MIDI Ch = 10 ON Lower Octave - 1 Style-Tone PRG C rx/tx = ONManual Bass Octave: -1 MIDI Real Time rx/tx = ONAccomp 1 Balance Enable - YES Accomp 2 Balance Enable - YES MIDI Volume CC 7 rx/tx = ONAccomp 3 Balance Enable - YES MIDI VELOCITY rx = 127 ON

FACTORY PRESET USER PROGRAM 15 (Bank 1 - Number 5)

Solo Tone - 68 Accomp Bass Balance Enable - YES Manual Bass Balance Enable - YES Lower Tone - 21 Manual Bass Tone - 12b Sound Effects Style sync - ON Chord Intelligence - OFF Balance Solo - 100 ON Lower - 100 ON MIDI FUNCTIONS Accomp 1 - 75 ON Solo part MIDI Ch = 4 ON Accomp 2 - 75 ON Solo rx limit low = C0 upp = C8Accomp 3 - 75 ON Accomp Bass - 90 ON Solo rx note shift = 0 Manual Bass - 90 ON Lower part MIDI Ch = 3 ON Accomp Drums - 90 ON Lower rx limit low = C0 upp = C8Lower rx note shift = 0Sound Effects - 90 ON Accomp 1 part MIDI Ch = 5 ON Accomp 1 rx limit low = C0 upp = C8Style - 12 ROCK 2 Tempo - 133 Accomp 1 rx note shift = 0Variation - ON Accomp 2 part MIDI Ch = 6 ON Advanced Arranger - ON Accomp 2 rx limit low = C0 upp = C8 Hold - ON Accomp 2 rx note shift = 0Sync Start - OFF Accomp 3 part MIDI Ch = 7 ON Sync Stop - OFF Accomp 3 rx limit low = C0 upp = C8 Reverb - ON Accomp 3 rx note shift = 0Reverb Type - HALL 1 Accomp Bass part MIDI Ch = 8 ON Melody Intelligence - OFF A. Bass rx limit low = C0 upp = C8A. Bass rx note shift = 0 Sound Effect pad a - RAIN Manual Bass part MIDI Ch = 2 ON Sound Effect pad b - THUNDER M. Bass rx limit low = C0 upp = C8Sound Effect pad c - WAVES M. Bass rx note shift = 0 Sound Effect pad d - STREAM Drums part MIDI Ch = 10 ON Sound Effect pad e - LAUGHING Sound Effect pad f - SCREAMING Drums rx limit low = C0 upp = C8 Sound Effect pad g - APPLAUSE Drums rx note shift = 0 Sound Effect part MIDI Ch = 11 ON Sound Effect pad h - JET Sound Effect pad i - TRAIN Sound Effect rx limit low = C0 upp = C8 Sound Effect pad j - HELICOPTER Sound Effect rx note shift = 0 Sound Effect pad k - THRILLER RX Only part MIDI Ch = 9 ON Sound Effect pad 1 - WONDERLAND RX Only $\hat{r}x$ limit low = C0 upp = C8RX Only note shift = 0Transpose - 0 OFF Note To Arranger MIDI Ch = 1 ONFootswitch assign - START/STOP Note To A. limit low = C0 upp = C8Pitch Bend range - 2 MIDI SOFT THRU For Local = OFF Solo Octave - 1 Style PRG Change MIDI Ch = 10 ON Lower Octave - 1 Style-Tone PRG C rx/tx = ONManual Bass Octave: -1 Accomp 1 Balance Enable - YES MIDI Real Time rx/tx = ONAccomp 2 Balance Enable - YES MIDI Volume CC 7 rx/tx = ONAccomp 3 Balance Enable - YES MIDI VELOCITY rx = 127 ON

FACTORY PRESET USER PROGRAM 16 (Bank 1 - Number 6)

Accomp Bass Balance Enable - YES Solo Tone - 42 Manual Bass Balance Enable - YES Lower Tone - 14 Sound Effects Style sync - ON Manual Bass Tone - 11b Chord Intelligence - ON Balance Solo - 100 ON Lower - 80 ON MIDI FUNCTIONS Accomp 1 - 75 ON Solo part MIDI Ch = 1 ONAccomp 2 - 75 ON Solo rx limit low = C0 upp = C8Accomp 3 - 75 ON Solo rx note shift = 0Accomp Bass - 90 ON Manual Bass - 90 ON Lower part MIDI Ch = 2 ON Lower rx limit low = C0 upp = C8Accomp Drums - 90 ON Sound Effects - 90 ON Lower rx note shift = 0 Accomp 1 part MIDI Ch = 5 ONStyle - 31 SWING Accomp 1 rx limit low = C0 upp = C8Tempo - 130 Accomp 1 rx note shift = 0Variation - OFF Accomp 2 part MIDI Ch = 6 ON Accomp 2 rx limit low = C0 upp = C8 Advanced Arranger - OFF Hold - OFF Accomp 2 rx note shift = 0Sync Start - OFF Accomp 3 part MIDI Ch = 7 ONSync Stop - OFF Reverb - ON Accomp 3 rx limit low = C0 upp = C8Accomp 3 rx note shift = 0Reverb Type - HALL 1 Accomp Bass part MIDI Ch = 8 ON Melody Intelligence - OFF A. Bass rx limit low = C0 upp = C8A. Bass rx note shift = 0 Sound Effect pad a - RAIN Sound Effect pad b - THUNDER Sound Effect pad c - WAVES Manual Bass part MIDI Ch = 3 ON M. Bass rx limit low = C0 upp = C8M. Bass rx note shift = 0 Sound Effect pad d - STREAM Sound Effect pad e - LAUGHING Sound Effect pad f - SCREAMING Drums part MIDI Ch = 10 ON Drums rx limit low = C0 upp = C8Sound Effect pad g - APPLAUSE Sound Effect pad h - JET Drums rx note shift = 0 Sound Effect part MIDI Ch = 11 ON Sound Effect pad i - TRAIN Sound Effect rx limit low = C0 upp = C8Sound Effect pad j - HELICOPTER Sound Effect rx note shift = 0 Sound Effect pad k - THRILLER Sound Effect pad l - WONDERLAND RX Only part MIDI Ch = 4 ON RX Only rx limit low = C0 upp = C8RX Only note shift = 0Transpose - 0 OFF Note To Arranger MIDI Ch = 2 OFF Footswitch assign - START/STOP Note To A. limit low = C0 upp = C8Pitch Bend range - 2 MIDI SOFT THRU For Local = OFF Solo Octave - 1 Style PRG Change MIDI Ch = 10 ON Lower Octave - 1 Style-Tone PRG C rx/tx = ONManual Bass Octave: -1 MIDI Real Time rx/tx = ONAccomp 1 Balance Enable - YES MIDI Volume CC 7 rx/tx = ON MIDI VELOCITY rx = 127 OFF Accomp 2 Balance Enable - YES Accomp 3 Balance Enable - YES

FACTORY PRESET USER PROGRAM 17 (Bank 1 - Number 7)

Solo Tone - 28	Accomp Bass Balance Enable - YES
Lower Tone - 14	Manual Bass Balance Enable - YES
Manual Bass Tone - 11b	Sound Effects Style sync - ON
	Chord Intelligence - ON
Balance Solo - 100 ON	
Lower - 80 ON	MIDI FUNCTIONS
Accomp 1 - 75 ON	
Accomp 2 - 75 ON	Solo part MIDI Ch = 1 ON
Accomp 3 - 75 ON	Solo rx limit low = C0 upp = C8
Accomp Bass - 90 ON	Solo rx note shift $= 0$
Manual Bass - 90 ON	Lower part MIDI Ch = 2 OFF
Accomp Drums - 90 ON	Lower rx limit low = C0 upp = C8
Sound Effects - 90 ON	Lower rx note shift = 0
Sound Effects - 50 Off	
C. I OF WATER	Accomp 1 part MIDI Ch = 5 ON
Style - 35 WALTZ 1	Accomp 1 rx limit low = C0 upp = C8
Tempo - 182	Accomp 1 rx note shift $= 0$
Variation - OFF	Accomp 2 part MIDI Ch = 6 ON
Advanced Arranger - ON	Accomp $2 \text{ rx limit low} = C0 \text{ upp} = C8$
Hold - ON	Accomp $2 \text{ rx note shift } = 0$
Sync Start - OFF	Accomp 3 part MIDI Ch = 7 ON
Sync Stop - OFF	Accomp 3 rx limit low = C0 upp = C8
Reverb - ON	Accomp 3 rx note shift = 0
Reverb Type - HALL 1	1
Melody Intelligence - OFF	Accomp Bass part MIDI Ch = 8 ON
	A. Bass rx limit low = C0 upp = C8
Sound Effect pad a - RAIN	A. Bass rx note shift $= 0$
Sound Effect pad b - THUNDER	Manual Bass part MIDI Ch = 3 OFF
Sound Effect pad c - WAVES	M. Bass rx limit low = C0 upp = C8
Sound Effect pad d - STREAM	M. Bass rx note shift = 0
Sound Effect pad e - LAUGHING	Drums part MIDI Ch = 10 ON
Sound Effect pad f - SCREAMING	Drums rx limit low = C0 upp = C8
Sound Effect pad g - APPLAUSE	Drums rx note shift = 0
Sound Effect pad h - JET	Sound Effect part MIDI Ch = 11 ON
Sound Effect pad i - TRAIN	Sound Effect rx limit low = C0 upp = C8
Sound Effect pad j - HELICOPTER	Sound Effect rx note shift = 0
Sound Effect pad k - THRILLER	
Sound Effect pad 1 - WONDERLAND	RX Only part MIDI Ch = 4 ON RX Only rx limit low = C0 yrs = C0
	RX Only rx limit low = C0 upp = C8
Transpose - 0 OFF	RX Only note shift = 0
Footswitch assign - START/STOP	Note To Arranger MIDI Ch = 2 ON
Pitch Bend range - 2	Note To A. limit low = C0 upp = C8
Solo Octave - 1	MIDI SOFT THRU For Local = OFF
Lower Octave - 1	Style PRG Change MIDI Ch = 10 ON
Manual Bass Octave: -1	Style-Tone PRG C $rx/tx = 0N$
Accomp 1 Balance Enable - YES	MIDI Real Time $rx/tx = ON$
Accomp 2 Balance Enable - YES	MIDI Volumo CC 7 m/fr: ON
Accomp 3 Balance Enable - YES	MIDI VOIUME CC 7 rx/tx = ON
Trecomp o Datatice Ellable - TEB	MIDI VELOCITY rx = 127 OFF
L	

FACTORY PRESET USER PROGRAM 18 (Bank 1 - Number 8)

Accomp Bass Balance Enable - YES Solo Tone - 66b Manual Bass Balance Enable - YES Lower Tone - 55 Sound Effects Style sync - ON Manual Bass Tone - 17b Chord Intelligence - OFF Balance Solo - 100 ON MIDI FUNCTIONS Lower - 100 ON Accomp 1 - 75 ON Solo part MIDI Ch = 1 ONAccomp 2 - 75 ON Solo rx limit low = F#5 upp = B6Accomp 3 - 75 ON Solo rx note shift = 0 Accomp Bass - 90 ON Manual Bass - 100 ON Lower part MIDI Ch = 1 ON Accomp Drums - 90 ON Sound Effects - 90 ON Lower rx limit low = C4 upp = F5 Lower rx note shift = 0 Accomp 1 part MIDI Ch = 5 ON Accomp 1 rx limit low = C0 upp = C8 Style - 21 8 BEAT 1 Accomp 1 rx note shift = 0Tempo - 70 Variation - OFF Accomp 2 part MIDI Ch = 6 ON Advanced Arranger - ON Accomp 2 rx limit low = C0 upp = C8Accomp 2 rx note shift = 0Hold - ON Sync Start - OFF Accomp 3 part MIDI Ch = 7 ON Accomp 3 rx limit low = C0 upp = C8 Sync Stop - OFF Reverb - ON Accomp 3 rx note shift = 0Reverb Type - HALL 1 Accomp Bass part MIDI Ch = 8 ON Melody Intelligence - OFF A. Bass rx limit low = C0 upp = C8A. Bass rx note shift = 0 Sound Effect pad a - RAIN Manual Bass part MIDI Ch = 1 ON Sound Effect pad b - THUNDER M. Bass rx limit low = C3 upp = B3 Sound Effect pad c - WAVES Sound Effect pad d - STREAM M. Bass rx note shift =-12Drums part MIDI Ch = 10 ON
Drums rx limit low = C0 upp = C8 Sound Effect pad e - LAUGHING Sound Effect pad f - SCREAMING Sound Effect pad g - APPLAUSE Sound Effect pad h - JET Sound Effect pad i - TRAIN Drums rx note shift = 0 Sound Effect part MIDI Ch = 1 ON Sound Effect rx limit low = C7 upp = C8 Sound Effect pad j - HELICOPTER Sound Effect pad k - THRILLER Sound Effect rx note shift = 6 RX Only part MIDI Ch = 9 ON Sound Effect pad 1 - WONDERLAND RX Only rx limit low = C0 upp = C8RX Only note shift = 0Transpose - 0 OFF Note To Arranger MIDI Ch = 1 ON Footswitch assign - SUSTAIN Note To A. limit low = C0 upp = B2 Pitch Bend range - 2 MIDI SOFT THRU For Local = ON Solo Octave - 1 Style PRG Change MIDI Ch = 10 ON Style-Tone PRG C rx/tx = 0FFLower Octave - 1 Manual Bass Octave: -1 Accomp 1 Balance Enable - YES MIDI Real Time rx/tx = ONMIDI Volume CC 7 rx/tx = ON MIDI VELOCITY rx = 127 ON Accomp 2 Balance Enable - YES Accomp 3 Balance Enable - YES

WRITING A PANEL CONFIGURATION

A total of 48 User Programs can be used - 6 Banks of 8 numbers

- Set all the recordable functions you wish to record into a User Program.
- 2. Press the WRITE button [62] and hold. The display will respond with:

WRITE PANEL IN USER PROGRAM?

While pressing the WRITE button:

- 3. Press and hold the BANK button [63] in the USER PROGRAMS section (LED of current BANK number will light)
- 4. Press the BANK number 1~6 (BANK LED will light)
- 5. While keeping the WRITE button pressed, release the BANK button.
- Press the USER PROGRAM number 1~8 (USER PROGRAM number LED will light) and the display will confirm and indicate:

OK !! SAVE COMPLETE

When the WRITE button is released, the Master Display will return and show the recorded USER BANK number.

* If the Internal Memory Protection parameter is in ON position when the WRITE button was pressed, the display will indicate:

INTERNAL MEMORY PROTECTED !!

To enable a USER PROGRAM to be recorded, set the Internal Memory Protection parameter to OFF position (See INTERNAL MEMORY Protection in FUNCTIONS), and perform the above procedures 2~6 again.

* If the BANK button LED you wish to use lights, there is no need to press that button again, simply release the BANK button and perform procedure 6.

To record another User Program, follow the same procedures as above. The User Program contents will be retained until they are further changed. Turning the instrument off will not erase a recorded User Program.

However, if you wish to record more than 48 User Program configurations, the User Programs already recorded can be saved onto an optional memory card. (see MEMORY CARD).

To activate any of the User Programs:

- Press the BANK button [63] and hold (LED of current BANK will light).
- Press the BANK number button 1~6 (LED will light).
- 3. Release the BANK button
- 4. Press the USER PROGRAM number button 1~8 (LED will light)

The panel setting in that particular program will be recalled and the display will indicate next to the Solo tone number, the number of the USER BANK in use. To cancel a User Program, press the same User Program button a second time (the button of the LED lit). The program will now be cancelled and the panel registration before selecting a User Program will return. This is called User Program 0.

LOADING FACTORY USER PROGRAMS INTO THE PRO-E

If you wish to reset the factory preset User Programs (1-48):

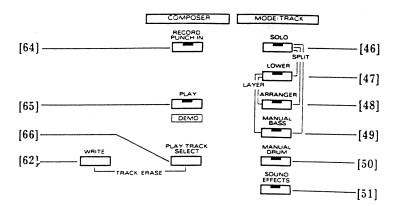
- 1. Turn the PRO-E off.
- 2. Press the WRITE button [62] and hold it.
- 3. Turn the PRO-E back on.

The display will respond with:

FACTORY SET UP LOADED !!

NOTE: This procedure will erase any current User Programs AND songs contained in the Composer memory. To retain the current User Programs and songs, follow the procedure - "WRITING DATA ONTO THE CARD".

COMPOSER



The COMPOSER is a unique "six track sequencer" that can record and store three complete songs for playback at any time.

In addition to the six tracks recording chord and note information, the Composer can also record the following functions:

> Tone change (SOLO, LOWER, MANUAL BASS) Balance Change (SOLO, LOWER, ACCOMP 1/2/3, ACCOMP/MANUAL BASS, ACCOMP DRUMS SOUND EFFECTS) Style Tempo Variation ON/OFF Advanced Arranger ON/OFF Hold ON/OFF Fill-In to Original Fill-In to Variation Break Mute Intro/Ending Sync Start ON/OFF Sync Stop ON/OFF Sound Effects (from key or pad)

User Program 1~48 Pitch Bend Modulation Sustain (using the optional footswitch) Reverb ON/OFF Reverb Type Melody Intelligence ON/OFF Sound Effect pads a~l assign Transpose Footswitch assign Pitch Bend range Octave range Accomp 1/2/3 Balance enable Acc/Man Bass Balance enable Sound Effects Style sync ON/OFF Chord Intelligence ON/OFF All MIDI Parameters

Accompaniment and melody can be recorded simultaneously, but if recording separately, we suggest that the accompaniment be recorded first.

The maximum amount of chord changes recordable in one measure is 96. The minimum length of melody notes that can be recorded in one measure is a sixty-fourth note triplet ()

All events recorded in the Composer will be retained until they are changed. Turning the instrument off will not erase a recorded track or song.

However, if you wish to record more than three songs, the songs already recorded in the Composer can be saved onto an optional memory card (see MEMORY CARD).

RECORDING A SONG

- 1. Stop the Style if already playing.
- 2. Press and hold the RECORD/ PUNCH IN button [64] in the Composer section. The display will respond with:

RECORD SONG SELECT TRACK

-SONG 1, 2 or 3

 Select the desired Song 1, 2 or 3 by rotating the TEMPO/FUNCTION Dial. The display will show the song change.

Upon releasing the RECORD/PUNCH IN button, the LED will light red, the LED of the keyboard mode previously selected will light red and the Master Display will return.

* If the Internal Memory Protection parameter is in ON position when the RECORD/PUNCH IN button was pressed, the display will indicate:

INTERNAL MEMORY PROTECTED !!

To enable a Song to be recorded, set the Internal Memory Protection parameter to OFF position (See INTER-NAL MEMORY Protection in FUNC-TIONS), and perform the above procedures 2 & 3 again.

Tracks can be recorded separately SOLO, LOWER, MANUAL BASS, ARRANGER, MANUAL DRUMS, SOUND EFFECTS and also in the same combination as in Keyboard Modes - SOLO/LOWER, SOLO/MANUAL BASS, SOLO/ARRANGER and LOWER/MANUAL BASS.

To record (ensure RECORD/PUNCH IN LED is ON):

- Press the desired track or tracks (red LEDs will light)
- Press START/STOP, recording begins.

NOTE: If the RECORD LED turns off immediately after pressing the START button, the total memory capacity has been reached. In this case use the "Track Erase" function to erase tracks previously recorded which are not needed or to "free" empty tracks.

- To stop recording press START/ STOP button again (RECORD/ PUNCH IN LED will be turned off).
- 7. If you wish to record on a second track and hear the other(s) playing back (when Multi-Track recording for example), press RECORD/PUNCH IN button (LED lit), press the desired track(s) for recording (red LED lights of the track button). Then press the PLAY button [65] (green LED lights), the LED of the tracks already recorded in will now light green).

Follow the procedures 5 & 6.

- * If you do not wish to hear a PLAY track on Multi-recording, press and hold the PLAY TRACK SELECT button and press the track you wish to mute (green LED of play track will be turned off). If the track you disabled on playback is the same as the keyboard mode selected, the LED will light orange. To enable the track to play again on playback, press and hold the PLAY TRACK SELECT button and press the track you wish to play (green LED of play track will be turned back on).
- * To record in the Arranger track, the Style you wish to use in the recording should be selected before starting. Further selections can be made during recording.
- * To record on SOLO, LOWER, MANUAL BASS tracks, the tone you wish to use in the recording should be selected before starting. Further selections can be made during recording.

The recording can be started in three ways:

- a) Press the START/STOP button. The rhythm and recording starts immediately.
- b) Press the SYNC START button (LED lights). Then press a note on the keyboard (in the accompaniment section of the keyboard when recording in 'Split' mode SOLO/LOWER. SOLO/ARRANGER, SOLO/MANUAL BASS). Rhythm and recording will begin automatically.

- c) Press the INTRO/ENDING button and the recording will start with the "introduction" to the rhythm selected.
- * The Intro can also be selected with the SYNC START function. Press the INTRO/ENDING button after pressing the SYNC START button (Sync Start LED begins to flash). Then play a note on the keyboard. The recording will begin with the "introduction".

The Song Composer will inform you when you are approaching the full memory capacity of the song you are recording by flashing the RECORD LED. This occurs when only 10% of the memory is remaining.

- * When the total memory capacity is reached, recording will be automatically switched off. The rhythm will automatically be switched off and RECORD LED will be turned off.
- * To record on the same song, both on previously recorded track(s) or on empty track(s), it will be necessary to use the "Track Erase" function to erase the track(s) previously recorded or "free" the empty tracks.

To record another song (three songs are possible), follow procedures 2 & 3 in "RECORDING A SONG", then follow procedures $4\sim7$.

NOTE: Using the PITCH BENDER/MODULATION LEVER, TEMPO CHANGE and BALANCE features on record will use up a lot of the song memory.

NOTE: Although FADE IN/OUT can be used during recording, it will not be recorded in the Song.

NOTE: Recording can either be made from the keyboard (PRO-E) itself or from external keyboard/device via MIDI. The transmitted MIDI channel must be the same as the channel of the keyboard mode related to the track being recorded.

PUNCH IN RECORD

Punch In recording can be performed in any of the tracks already recorded.

- 1. Press the RECORD/PUNCH IN button [64], and the PLAY button [65], press the track button you wish to Punch-In (Red and green LEDs will flash alternately).
- 2. Press the START/STOP button.

NOTE: If the RECORD LED turns off immediately after pressing the START button, the total memory capacity has been reached. In this case use the "Track Erase" function to erase tracks previously recorded which are not needed or to "free" empty tracks.

- 3. At the point you wish to Punch-in, press the REC/PUNCH IN button (LED of Punch-in track will light red constantly)
- 4. Press START/STOP when Punchin recording is finished.

TRACK ERASE

To erase any recorded track completely:

- 1. Press and hold the PLAY TRACK SELECT button [66]
- Press and hold the WRITE button [62]. Display will show:

TRACK ERASE SELECT TRACK

All tracks LEDS will flash red.

- 3. While holding PLAY TRACK SE-LECT and WRITE BUTTONS, just press the button of the track you wish to erase. LED of track erased will be turned off.
- * If the Internal Memory Protection parameter is in ON position when the track button was pressed, the display will indicate:

INTERNAL MEMORY PROTECTED !!

To enable the track to be erased, set the Internal Memory Protection parameter to OFF position (See INTERNAL MEMORY Protection in FUNCTIONS), and perform the above procedures 2 & 3 again.

PLAYING BACK A SONG

To play back the current song.

- Press the PLAY button (LED lights).
- Press START/STOP button, playback will start.

- or -

Press the SYNC START button, then press a note in the lower section of the keyboard.

Each keyboard mode can be played during Composer playback. Just select the keyboard mode (LED will flash green and orange alternately).

Playback and rhythm will automatically stop after the final measure of the song, or the song can be stopped at any time by pressing the START/STOP button (PLAY LED is turned off).

If you wish the song to playback repeatedly, press the PLAY button one more time (LED will start to flash). To cancel the "loop" feature press the PLAY button again until the LED lights constantly.

To playback one of the other two songs:

1. Press PLAY [65] button and hold, the display will respond with.

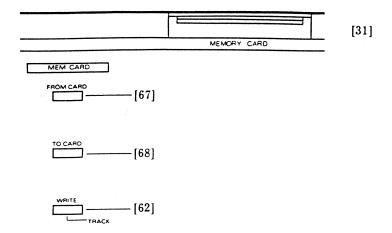
PLAY SONG X-SELECT TRACK

SONG 1,2 or 3

2. Select the desired Song - 1, 2 or 3 by rotating the TEMPO/FUNCTION Dial. The display will show the song change.

Upon releasing the PLAY button, the LED will light, and the Master Display will return.

- 3. Follow the "PLAYING BACK A SONG" procedures above.
- * If you wish to load and play Composer Songs already recorded on the optional Memory card, see MEMORY CARD and follow the "PLAYING BACK A SONG", procedures above.



An optional Memory Card (M-256D, M-256E) is available from your Roland dealer.

With the Memory Card, 3 songs recorded in Composer and/or 48 USER PROGRAMS can be "written" and stored onto the card (To Card) making it possible to record additional songs or panel configurations in the PRO-E internal memory.

The data stored onto the card can then be "loaded" and returned to the PRO-E (From Card) for playback at any time.

The Composer songs can be loaded either separately to 3 positions in the card or all 3 simultaneously or they can be loaded along with the User Programs.

WRITING DATA ONTO THE MEMORY CARD

To "write" and store data onto the Memory Card:

- Insert the Memory Card card into the MEMORY CARD SLOT [31] with the label facing upwards.
- 2. Make sure that the PROTECT switch of the Memory Card is set to OFF position.
- 3. Press and hold the TO CARD button [68] in the MEM CARD section. The display will respond with:

SONGS/USER PROG TO MEMORY CARD

Stores all Composer songs and User Programs TO the Card

4. While holding the TO CARD button, moving the TEMPO/FUNCTION Dial will show and select the following TO CARD writing operations:

USER PROGRAMS TO MEMORY CARD Stores all User Programs TO the Card.

INT ALL SONGS TO CARD SONGS

Stores all Composer songs TO the Card

INT SONG 1 TO CARD SONG x Stores Composer Song 1 TO the Card position (1, 2 or 3). Press CURSOR button and rotate TEMPO/FUNCTION Dial to select position 1, 2 or 3.

INT SONG 2 TO CARD SONG x Stores Composer Song 2 TO the Carc position (1, 2 or 3). Press CURSOR button and rotate TEMPO/FUNCTION
Dial to select position 1, 2 or 3.

INT SONG 3 TO CARD SONG x Stores Composer Song 3 TO the Card position (1, 2 or 3). Press CURSOR button and rotate TEMPO/FUNCTION Dial to select position 1, 2 or 3.

^{*} If the CURSOR button has been pressed while showing any of the above displays, press once more to see other displays.

5. While holding the TO CARD button, press the WRITE button [62]. If the card has not been used before, the display will respond with:

ILLEGAL CARD !! WRITE AGAIN ?

6. While holding the TO CARD button, press the WRITE button once more. The display will respond with:

OK !! SAVE COMPLETE

The selected writing operation has now been executed. After releasing both buttons, the Master Display will return.

* To protect the data (Songs and User Programs) stored on the card, set the PROTECT switch to ON before removing the card.

The same contents of the Card can be loaded in the same sequence (separately or together) into the PRO-E.

LOADING DATA FROM THE MEMORY CARD INTO THE PRO-E

To "write" and load data into the PRO-E:

- Insert the Memory Card into the MEMORY CARD SLOT [31] with the label facing upwards.
- Press and hold the FROM CARD button [67] in the MEM CARD section.
 The display will respond with:

SONGS/USER PROG FROM MEMORY CARD

Loads all Composer songs and User Programs FROM the Card.

3. While holding the FROM CARD button, moving the TEMPO/FUNCTION Dial will show and select the following Card loading operations:

USER PROGRAMS FROM MEMORY CARD

Loads all User Programs FROM the Card to PRO-E.

INT ALL SONGS FROM CARD SONGS

Loads all songs FROM the Card to PRO-E

INT SONG 1 FROM CARD SONG x Loads Song X (1, 2 or 3) FROM the Card to Composer Song 1. Press the CURSOR button and rotate TEMPO/FUNCTION Dial to select Card Song 1, 2 or 3.

INT SONG 2 FROM CARD SONG x Loads Song X (1, 2 or 3) FROM the Card to Composer Song 2. Press the CURSOR button and rotate TEMPO/FUNCTION Dial to select Card Song 1, 2 or 3.

INT SONG 3 FROM CARD SONG x Loads Song X (1, 2 or 3) FROM the Card to Composer Song 3. Press the CURSOR button and rotate TEMPO/FUNCTION Dial to select Card Song 1, 2 or 3.

If the CURSOR button has been pressed while showing any of the above displays, press once more to see other displays.

4. While holding the FROM button, press the WRITE button [62]. The display will respond with:

OK !! SAVE COMPLETE

The selected loading operation has now been executed. After releasing both buttons, the Master Display will return.

* If the Internal Memory Protection parameter is in ON position when the WRITE button was pressed, the display will indicate:

INTERNAL MEMORY PROTECTED !!

To enable loading of the selected operation, set the Internal Memory Protection parameter to OFF position (See INTERNAL MEMORY Protection in FUNCTIONS), and perform the procedure 4 again.

<Reference>

If desired, the "factory preset" User Program settings can be reloaded into the PRO-9. To reload the factory User Program settings, see LOADING FACTORY USER PROGRAMS INTO THE PRO-E.

ERROR MESSAGES

If any of the (write/load) procedures have not been carried out correctly, the following Error messages will be displayed:

DISPLAY	REASON	REMEDY
CARD NOT READY	— The card has not been inserted.	— Insert card and repeat procedure.
ILLEGAL CARD !!	 The card is new. The battery has not been inserted. The card has been programmed on other Roland instruments. The card now in the MEMORY CARD slot is a Style Card. 	 Press the WRITE button again. Insert battery and repeat procedure. If you wish to erase the data on the card, press the WRITE button again. Insert a Memory Card M-256D or M-256E and repeat procedure.
MEMORY CARD PROTECTED !	- The Protect switch is set to the ON position.	Set the Protect switch to the OFF position and repeat procedure.
SAVE NOT POSSIBLE !!	- The Card now in the MEMORY CARD slot is a ROM Card.	— Insert a RAM Card and repeat procedure.
WRITE ERROR FOR CARD	When the written data showed irregularities.	Repeat procedure and if the result is the same, change the Card
CHECK CARD BATTERY !!	The battery inside the card is below its charge limit.	Renew the Card battery and repeat procedure.

STYLE CARD

Additional Styles are available from optional Music Style Cards available from your Roland dealer.

PLAYING STYLES FROM THE CARD

To play Styles from the Music Style Card:

- 1. Insert Style Card into MEMORY CARD slot [31].
- 2. Press CARD button in the STYLE SELECT section.
- 3. Press one of the NUMBER buttons 1-8. The number, name and preset tempo of the card Style selected will appear in the display.

Example:

C1 M'TOWN J = 132 xx xx

To START/STOP, and select: VARIATION, ADVANCED ARRANGER ON/OFF, FILL-IN, INTRO/ENDINGS, TAP TEMPO/BREAK MUTE, follow the same procedures as were used for the built-in Styles.

- * Inserting a Music Style Card into the PRO-E will not erase the built-in Styles.
- * Do not remove the Music Style Card when a Style from the card is playing.

ERROR MESSAGES

If any of the above procedures were not carried out correctly, the Error messages below will be displayed.

DISPLAY	REASON	REMEDY
CARD NOT READY	The Music Style Card has not been inserted.	— Insert card and repeat procedure.
MEMORY CARD PROTECTED !	— The Card now in the card slot is not a Music Style Card.	Insert a Music Style Card and repeat procedure.

DEMO SONGS

Inside the PRO-E is stored 5 Demo Songs which can be played to experience the excellent qualities of the instrument's tones and Music Styles and effects and to demonstrate how effectively Songs can be recorded into the PRO-E's six-track Composer.





- 1. Press and hold the PLAY/DEMO button [65].
- Press USER PROGRAM buttons 1~5 to hear Demo Songs 1~5 separately.
 or —

Press USER PROGRAM button 6 to hear all Demo Songs in sequence.

- 3. Press the START/STOP button [26].
- * While the Demo Songs are being performed, the PRO-E cannot be played and no MIDI message can be received.
- * The Demo Songs data cannot be sent out through MIDI OUT.
- To stop playing any Demo Song, press again the START/STOP button [26].

Following is a list of the Demo Songs and composers.

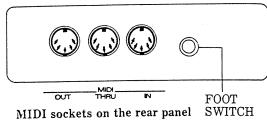
Demo 1 - «TIME OUT» by: Luigi Bruti/Roberto Lanciotti © 1989 Demo 2 - «YAH YAH» by: Dave Smith © 1989 Demo 3 - «PASADENA» by: Luigi Bruti © 1989 Demo 4 - «MY RADIO» by: Luigi Bruti/Roberto Lanciotti © 1989 Demo 5 - «YUPPIE» by: Luigi Bruti © 1988

MIDI CONTROL

M.I.D.I. is the acronym for Musical Instrument Digital Interface.

MIDI is a standardized interface by which all digital musical instruments also equipped with MIDI connections can exchange data. This means that the PRO-E can be used as a MIDI control keyboard - to control other MIDI devices (keyboard, sequencer, etc.) or as a MIDI sound source (to be controlled by other MIDI devices).

CONNECTIONS



Switch off the PRO-E and all other MIDI devices.

There are three MIDI sockets on the rear panel of the PRO-E as follows:

- MIDI OUT socket Use this socket for sending MIDI signals from the PRO-E to control external MIDI devices.
- MIDI THRU socket The exact copy of the signal fed into the MIDI IN is sent out through this socket.
- MIDI IN socket. Use this socket for feeding MIDI signals from an external MĬDI device to control the PRO-E.
- * The signal fed into the MIDI IN is not sent out through MIDI OUT.
- * When connecting, switch off the PRO-E and all other MIDI devices.
- * Do not connect more than 3 MIDI devices through the MIDI THRU sockets. Use the optional MIDI THRU box (MM-4) in this case.

MIDI MESSAGE LED

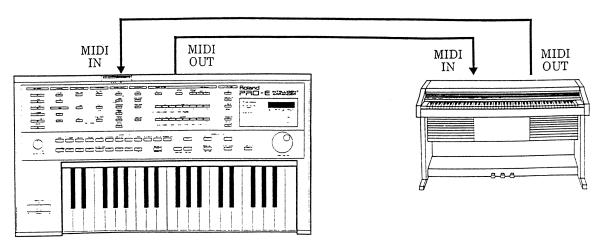
This LED [14] is lit every time a MIDI message (Note On/Off, Program Change, Pitch Bend, etc.) is operative.

External MIDI Connections

The PRO-E can be played (triggered) from the following MIDI equipped instruments. To connect the instrument to the PRO-E, use a standard MIDI cable and connect from the MIDI OUT & MIDI IN sockets of the instrument to the MIDI IN & MIDI OUT sockets of the PRO-E respectively. By using a factory preset User Program, all MI-DI parameters needed for each connection will be automatically set. If you should still experience any difficulty playing the PRO-E from a particular instrument, refer to the MIDI section of both Owner's Manuals or see your local Roland Dealer.

Example 1: Connection of the PRO-E with MIDI Piano

- a) Press User Program No. 11 (press BANK and User Program 1 buttons simultaneously, then press User Program 1 button).
- Arranger played from Piano keyboard (notes C0-B2)
- Play actual sound from Piano keyboard (notes C3 - C8) (Ensure volume of Piano keyboard is turned up)
- Solo "Trombone 2" or Lower "Clarinet 2" from PRO-E keyboard.
- b) Press User Program No. 12 (press BANK and User Program 1 buttons simultaneousy, then press User Program 2 button).
- Arranger played from Piano keyboard (notes C0-B3)
- Play actual sound from Piano keyboard
- (notes C4-C8) Solo "Sax 2" or Lower "Shakuhachi" from PRO-E keyboard.
- c) Press User Program No. 18 (press BANK and User Program 1 buttons simultaneously, then press User Program 8 button).
- Multi Split Example
- Turn Piano keyboard volume to Zero
- Arranger played from Piano keyboard (notes C0-B2)
 Manual Bass "Fretless 1" from Piano
- keyboard (C3-B3) Lower "Soundtrack" from Piano Key-
- board (C4-F5)
 Solo "Whistle 2" played from Piano keyboard (notes F#5-B6)
- Sound Effects from Piano keyboard (C7-C8)



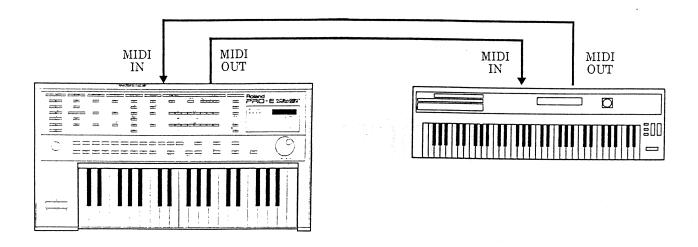
Example 2: Connection of PRO-E with MIDI Synthesizer

Press User Program No. 13 (press BANK and User Program 1 buttons simultaneously, then press User Program 3 button)

- Arranger played from Synth keyboard (notes C0-B3)

- Play actual sound from Synth keyboard (notes (C4-C8) (Ensure volume of Synth keyboard is tur-

ned up)
- Solo "Bottle Blow" or Lower "Syn Brass
4" from PRO-E keyboard.



Example 3: Connection of PRO-E with MIDI Organ

Press User Program No. 14 press BANK and User Program 1 buttons simultaneously, then press User Program 4 button).

Arranger played from Organ keyboard (notes C0-C8)
Solo "Flute 2" played from Upper Organ

keyboard (notes C0-C8)

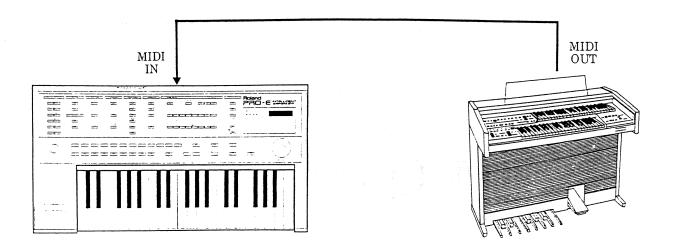
- Lower "Guitar 1" from PRO-E key-

board.

- Manual Bass "Acou Bass 1" from Organ

pedalboard.

If you do not wish to hear the tone of the Organ keyboards turn the volume to Zero.

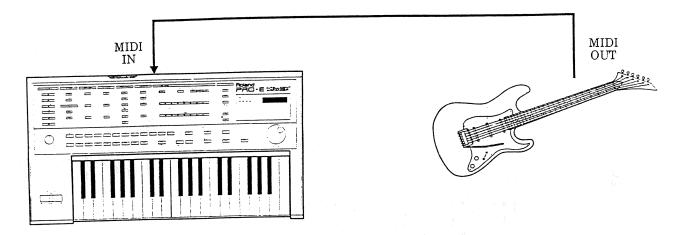


Example 4: Connection of PRO-E with MIDI Guitar

Press User Program No. 15 (press BANK and User Program 1 buttons simultaneously, then press User Program 5 button).

- Arranger played from Guitar. - Solo "Square Wave" from PRO-E key-

Lower "Elec Organ 1" from PRO-E keyboard.



Example 5: Connection of PRO-E with MIDI Accordion

a) Press User Program No. 16 (press BANK and User Program 1 buttons simultaneously, then press User Program 6 button).

- Solo "Syn Brass 2" and Mono section from right Accordion keyboard (notes

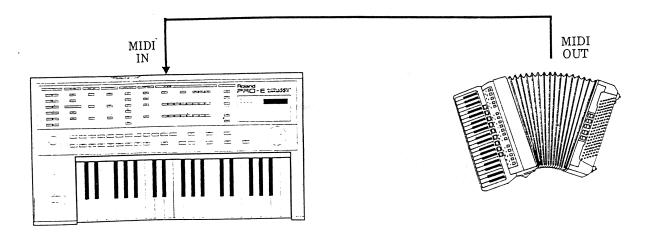
C0-C8)
Lower "Elec Piano 1" from left Accor-

dion Chord buttons.
- Bass "Acou Bass 1" from left Accordion Bass buttons.

b) Press User Program No. 17 (press BANK and User Program 1 buttons simultaneously, then press User Program 7 button).

Arranger played from left Accordion

Chord buttons.
Solo "Accordion" and Mono section from right Accordion keyboard (notes C0-C8)



128 TONES AVAILABLE BY EXTERNAL MIDI PROGRAM CHANGE

When using an external MIDI device to control the sound source within the PRO-E, a total of 128 tones can be played.

The 128 tones available are:

Tone Name	Prog-No.	HP-Prog.
Tone Name Acou Piano 1 Acou Piano 2 Acou Piano 3 Elec Piano 2 Elec Piano 2 Elec Piano 4 Honkytonk Elec Org 1 Elec Org 2 Elec Org 3 Elec Org 4 Pipe Org 1 Pipe Org 2 Pipe Org 3 Accordion Harpsi 1 Harpsi 2 Harpsi 3 Clavi 1 Clavi 3 Celesta 1 Celesta 2 Syn Brass 3 Syn Brass 3 Syn Brass 4 Syn Brass 3 Syn Brass 4 Syn Bass 1 Syn Bass 4 Fantasy Harmo Pan Chorale Glasses Soundtrack Atmosphere Warm Bell Funny Vox Echo Bell Ice Rain Oboe 2001 Echo Pan Doctor Solo Schooldaze Bellsinger Square Wave Str Sect 1 Str Sect 2 Str Sect 3 Pizzicato Violin 1 Violin 2 Cello 1 Cello 2 Contrabass Harp 1 Harp 2 Guitar 1 Guitar 2 Elec Gtr 1 Elec Gtr 2 Sitar	Prog-No. 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039 040 041 042 043 044 045 046 047 048 049 050 051 052 053 054 055 056 057 058 059 060 061 062 063 064	HP-Prog. A11 A12 A13 A14 A15 A16 A17 A18 A21 A22 A23 A24 A25 A26 A27 A28 A31 A32 A33 A34 A35 A36 A37 A38 A41 A42 A43 A44 A45 A46 A47 A48 A51 A52 A53 A64 A67 A68 A77 A78 A61 A62 A63 A64 A67 A68 A77 A78 A71 A72 A73 A74 A75 A76 A77 A78 A81 A82 A83 A84 A85 A86 A87 A88

Acou Bass 1 Acou Bass 2 Gef Bass 1 Clec Bass 1 Clec Bass 2 Gef Bass 1 Clarriet 1 Clec Bass 2 Gef Bass 1 Clec Bass 2 Gef Bass 3 Clarriet 1 Clarriet 1 Graph Gef Bass 2 Clarriet 1 Graph Gef Bass 2 Clarriet 1 Graph Gef Bass 2 Clarriet 1 Clarriet 1 Clarriet 1 Clarriet 1 Clarriet 2 Clarriet 3 Clarriet 2 Clarriet 3 Clarriet 4 Clarriet 4 Cloboe Clarriet 5 Clarriet 6 Clarriet 7 Clarriet 7 Clarriet 7 Clarriet 7 Clarriet 8 Clarriet 8 Clarriet 9 Clarriet	Tone Name	Prog-No.	HP-Prog.
Acou Bass 2 Elec Bass 1 Clec Bass 1 Clec Bass 2 Clec Bass 1 Clec Bass 1 Clec Bass 2 Clec Bass 1 Clec Bass 2 Clec Bass 1 Cle Bass 1 Clec Bass 1 Cle Bass 1 Clec Bass 2 Clec Bas			
Elec Bass 1 Elec Bass 2 Elec Bass 1 Elec Bass 2 Elec Bass 2 Elec Bass 2 Elec Bass 1 Elec Bass 2 Elec Bass 1 Elec Bass 1 Elec Bass 1 Elec Bass 2 Elec Bass 1 Elec Bass 1 Elec Bass 2 Elec Bass 1 Elec Bass 2 Elec Bass 1 Elec Bass 2 Elec Bass 2 Elec Bass 1 Elec Bass 2 Elec Bass 3 Elec Bass 4 Elec B			
Slap Bass 1 069 B15 Slap Bass 2 070 B16 Fretless 1 071 B17 Fretless 2 072 B18 Flute 1 073 B21 Flute 2 074 B22 Piccolo 2 076 B24 Recorder 077 B25 Pan Pipes 078 B26 Sax 1 079 B27 Sax 2 080 B28 Sax 3 081 B31 Sax 4 082 B32 Clarinet 1 083 B33 Clarinet 2 084 B34 Oboe 085 B35 Engl Horn 086 B36 Bassoon 087 B37 Harmonica 088 B38 Trumpet 1 089 B41 Trumpet 2 090 B42 Trombone 2 092 B44 Fr Horn 1 093 B45 Fr Horn 2	Elec Bass 1	067	B13
Slap Bass 2	Elec Bass 2		B14
Fretless 1	Slap Bass 1		Blb
Fretless 2 Flute 1 Flute 2 Flute 2 Piccolo 1 Piccolo 2 Recorder Pan Pipes Sax 1 Sax 2 Sax 3 Sax 3 Clarinet 1 Clarinet 1 O88 Bassoon O87 Bassoon O88 Bassoon O89 Bassoon O89 Bassoon O90 Bassoon O90 Bassoon O91 Bassoon O91 Bassoon O91 Bassoon O91 Bassoon O92 Bassoon O93 Bassoon O94 Bassoon O95 Bassoon O96 Bassoon O97 Bassoon O98 Bassoon O99 Ba			B10 R17
Flute 1 Flute 2 Piccolo 1 Piccolo 2 Piccolo 2 Piccolo 2 Piccolo 2 Recorder Pan Pipes Sax 1 Sax 2 Sax 3 Sax 4 Sax 8 Sax 3 Sax 4 Sax 8 Sax 8 Sax 9 Sax 9	Fretless 2	072	B18
Piccolo 1 075 B23 Piccolo 2 076 B24 Recorder 077 B25 Pan Pipes 078 B26 Sax 1 079 B27 Sax 2 080 B28 Sax 3 081 B31 Sax 4 082 B32 Clarinet 1 083 B33 Clarinet 2 084 B34 Oboe 085 B35 Engl Horn 086 B36 Bassoon 087 B37 Harmonica 088 B38 Trumpet 1 089 B41 Trumpet 2 090 B42 Trombone 1 091 B43 Trombone 2 092 B44 Fr Horn 1 093 B45 Fr Horn 2 094 B46 Tuba 095 B47 Brs Sect 1 096 B48 Brs Sect 2 097 B51 Vibe 2 <t< td=""><td>Flute 1</td><td>073</td><td>B21</td></t<>	Flute 1	073	B21
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Clarinet 1			B32
Clarinet 2 Oboe O85 Engl Horn O86 Bassoon O87 Harmonica O88 Trumpet 1 O89 Trumpet 2 O90 Trombone 1 O91 Trombone 2 O92 Fr Horn 1 O93 Fr Horn 2 O95 B47 Brs Sect 1 O96 B48 Brs Sect 2 O97 Vibe 1 Vibe 1 Vibe 2 O99 Syn Mallet Windbell O10 Glock Tube Bell Tobe Bell Narimba Marimba Marimba Marimba Mostle 1 Whistle 1 O98 Whistle 1 O98 Whistle 2 Deep Snare Elec Perc 1 Elec Perc 2 Triangle Orche Hit Treps O88 B38 Trumpet 1 O89 B41 Trumpet 2 O90 B42 Trombone 2 B44 B46 Tuba O95 B47 B46 Tuba B46 Tuba B46 B48 B46 B48 B52 O97 B51 C098 B52 Costanets Costane	Clarinet 1		B33
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Harmonica			B37
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Bird Tweet 125 B85 One Note Jam 126 B86 Water Bells 127 B87		123	B64
One Note Jam 126 B86 Water Bells 127 B87	Bird Tweet	125	B85
Water Bells 127 B87	One Note Jam	126	
Jungie Tune 128 BS8		127	B87
	Jungie Lune	128	R88

^{* &}quot;HP-Prog." stands for the Program Change numbers transmitted by the Roland HP Piano series and other si-

MIDI FUNCTION VALUES AND CHANNELS

Pressing the MIDI button [9] (LED lights) and rotating the TEMPO/FUNCTION Dial will show the MIDI functions/channels and their current/ default value in the display and enable any changes you wish to make.

DISPLAY	CHANGEABLE VALUES
BASIC USER PRG C Midi Ch = 12 ON	MIDI Channel 1-16 TX (Transmit) & RX (Receive) Channel ON/OFF Recorded as Global Parameter (not in User Program)
SOLO part Midi Ch = 4 ON	MIDI Channel 1-16 TX (Transmit) & RX (Receive) Channel ON/OFF
SOLO rx limit low = C 0 upp = C 9	C0 to C9 Lower and Upper
SOLO rx note shift = 0	-96 to +96 RX (Receive)
LOWER part Midi Ch = 3 ON	MIDI Channel 1-16 TX (Transmit) & RX (Receive) Channel ON/OFF
LOWER rx limit low=C 0 upp=C 9	C0 to C9 Lower and Upper
LOWER rx note shift = 0	-96 to +96 RX (Receive)
ACCOMP1 part Midi Ch = 5 ON	MIDI Channel 1-16 TX (Transmit) & RX (Receive) Channel ON/OFF
ACCOMP1 rx limit low = C 0 upp = C 9	C0 to C9 Lower and Upper
ACCOMP1 rx note shift = 0	-96 to +96 RX (Receive)
ACCOMP2 part Midi Ch = 6 ON	MIDI Channel 1-16 TX (Transmit) & RX (Receive) Channel ON/OFF
ACCOMP2 rx limit low = C 0 upp = C 9	C0 to C9 Lower and Upper
ACCOMP2 rx note shift = 0	-96 +96 RX (Receive)
ACCOMP3 part Midi Ch= 7 ON	MIDI Channel 1-16 TX (Transmit) & RX (Receive) Channel ON/OFF
ACCOMP3 rx limit low = C 0 upp = C 9	C0 to C9 Lower and Upper
ACCOMP3 rx note shift= 0	-96 to +96 RX (Receive)
ACCOMP BASS part Midi Ch= 8 ON	MIDI Channel 1-16 TX (Transmit) & RX (Receive) Channel ON/OFF
A. BASS rx limit low = C 0 upp = C 9	C0 to C9 Lower and Upper
A. BASS rx note shift= 0	—96 to +96 RX (Receive)

DISPLAY	CHANGEABLE VALUES
MANUAL Bass part	MIDI Channel 1-16
Midi Ch = 2 ON	TX (Transmit) & RX (Receive) Channel ON/OFF
M. BASS rx limit low = C 0 upp = C 9	C0 to C9 Lower and Upper
M. BASS rx	—96 to +96
note shift= 0	RX (Receive)
DRUMS part	MIDI Channel 1-16
Midi Ch = 10 ON	TX (Transmit) & RX (Receive) Channel ON/OFF
DRUMS rx limit low=C 0 upp=C 9	C0 to C9 Lower and Upper
DRUMS rx	−96 to +96
note shift= 0	RX (Receive)
EFFECT part	MIDI Channel 1-16
Midi Ch= 11 ON	TX (Transmit) & RX (Receive) Channel ON/OFF
EFFECT rx limit low = C 0 upp = C 9	C0 to C9 Lower and Upper
EFFECT rx	-96 to +96
note shift= 0	RX (Receive)
RX ONLY part	MIDI Channel 1-16
Midi Ch= 9 ON	RX (Receive) Channel Only ON/OFF
RX ONLY limit low = C 0 upp = C 9	C0 to C9 Lower and Upper
RX ONLY note shift = 0	-96 to +96 RX (Receive)
NOTE TO ARRANGER	MIDI Channel 1-16
Midi Ch= 1 ON	RX (Receive) Channel Only ON/OFF
NOTE TO A. limit low = C 0 upp = C 9	C0 to C9 Lower and Upper
MIDI SOFT THRU FOR LOCAL = ON	ON/OFF
STYLE PRG CHANGE	MIDI Channel 1-16
Midi Ch = 10 ON	TX (Transmit) & RX (Receive) Channel ON/OFF
STYLE-TONE PRG C	ON/OFF
rx/tx = ON	TX (Transmit) & RX (Receive)
MIDI REAL TIME rx/tx = OFF	ON/OFF TX (Transmit) & RX (Receive) START = FAH, STOP = FCH, TIME CLOCK = F8H
MIDI VOLUME CC 7	TX (Transmit) & RX (Receive) ON/OFF
rx/tx QN	Volume Control Change 07
MIDI VELOCITY	0 ~ 127 ON/OFF
rx 127 ON	RX (Receive)
DATA DUMP = ALL PRESS WRITE	ALL, USER P. SONG 1, SONG 2, SONG 3, SONGS

- * MIDI CLOCK is to be ON when you wish to play other MIDI-equipped rhythm machines or sequencers at the same tempo with the PRO-E.
- * MIDI VOLUME (MIDI Control Change 7) is a MIDI message that controls the volume. When using external MIDI-equipped devices (sequencers, synthesizers, etc.), the volume of each part of the PRO-E is controlled by its MIDI Channel as well as the total volume of all parts.

CHANGING VALUES AND CHANNELS

To change the MIDI Channel of each part for transmitting and receiving MIDI data, press the MIDI button [9] (LED lights) and rotate the TEMPO/FUNCTION Dial until the part you require appears in the display.

Press the CURSOR button [11] to select the value you wish to edit. Edit the value by rotating the TEMPO/FUNCTION Dial [27]. The display will indicate the change.

To exit the MIDI operations, press the MIDI button once more. The Master Display will return.

* The changes you make in MIDI functions will be erased if the instrument is switched off (except the MIDI Global functions). However any changes in all MIDI functions can be recorded in the 48 User Programs and further can be saved onto a Memory Card. (See USER PROGRAMS & MEMORY CARD).

As was explained above, the PRO-E itself delivers a lot of musical capability, however the capabilities increase when external MIDI equipment is used. An additional Part (RX ONLY part) is available (which cannot be played with the PRO-E alone) with 128 tones available for selection when the PRO-E is controlled by external MIDI devices such as the MC/PR series sequencers. Then the PRO-E will perform most 9-part orchestrations.

See MIDI IMPLEMENTATION CHART for details on the MIDI data which the PRO-E can transmit and receive (recognize).

IF YOUR PRO-E FAILS TO OPERATE:

- Make sure that the AC cord is firmly plugged into the AC socket [29] on the rear panel. Also check that the AC wall outlet is not faulty. Plug in a lamp or radio to test the wall outlet.
- Be sure the ON/OFF switch [30] (located on the rear of the panel) is ON.
- In the event the instrument is still inoperable, your Roland technician or dealer is best qualified to provide you with competent service. Do not attempt any adjustments or repairs by yourself.
- When the display responds with a different indication from any explained in this manual, refer to "ERROR MESSAGES".

<Reference>

The PRO-E will always select the following features, when it is turned on (These are often called the Default settings or User Program 0):

FACTORY PRESET USER PROGRAM 0 and Default Setting (Banks 2-6)

Accomp Bass Balance Enable - YES Solo Tone - 14 Manual Bass Balance Enable - YES Lower Tone - 73 Sound Effects Style sync - ON Manual Bass Tone - 11b Chord Intelligence - OFF Balance Solo - 100 ON MIDI FUNCTIONS Lower - 80 ON Accomp 1 - 75 ON Solo part MIDI Ch = 4 ON Accomp 2 - 75 ON Solo rx limit low = C0 upp = C8Accomp 3 - 75 ON Solo rx note shift = 0Accomp Bass - 90 ON Manual Bass - 90 ON Lower part MIDI Ch = 3 ON Lower rx limit low = C0 upp = C8Accomp Drums - 90 ON Lower rx note shift = 0Sound Effects - 90 ON Accomp 1 part MIDI Ch = 5 ONAccomp 1 rx limit low = C0 upp = C8Style - 16 FUNK 2 Accomp 1 rx note shift = 0Tempo - 110 Variation - OFF Accomp 2 part MIDI Ch = 6 ON Advanced Arranger - ON Accomp 2 rx limit low = C0 upp = C8Hold - OFF Accomp 2 rx note shift = 0Sync Start - OFF Accomp 3 part MIDI Ch = 7 ON Sync Stop - OFF Reverb - ON Accomp 3 rx limit low = C0 upp = C8Accomp 3 rx note shift = 0Reverb Type - HALL 1 Accomp Bass part MIDI Ch = 8 ON Melody Intelligence - OFF A. Bass rx limit low = C0 upp = C8 A. Bass rx note shift = 0Sound Effect pad a - RAIN Manual Bass part MIDI Ch = 2 ON Sound Effect pad b - THUNDER Sound Effect pad c - WAVES M. Bass rx limit low = C0 upp = C8M. Bass rx note shift = 0 Sound Effect pad d - STREAM Drums part MIDI Ch = 10 ONSound Effect pad e - LAUGHING Drums rx limit low = C0 upp = C8Sound Effect pad f - SCREAMING Drums rx note shift = 0Sound Effect pad g - APPLAUSE Sound Effect pad h - JET Sound Effect part MIDI Ch = 11 ON Sound Effect rx limit low = C0 upp = C8 Sound Effect pad i - TRAIN Sound Effect pad j - HELICOPTER Sound Effect rx note shift = 0 Sound Effect pad k - THRILLER RX Only part MIDI Ch = 9 ON Sound Effect pad 1 - WONDERLAND RX Only rx limit low = C0 upp = C8RX Only note shift = 0Transpose - 0 OFF Note To Arranger MIDI Ch = 1 ONFootswitch assign - SUSTAIN Note To A. limit low = C0 upp = B3 Pitch Bend range - 2 MIDI SOFT THRU For Local = OFF Solo Octave - 1 Style PRG Change MIDI Ch = 10 ON Lower Octave - 1 Style-Tone PRG C rx/tx = ONManual Bass Octave: -1 Accomp 1 Balance Enable - YES MIDI Real Time rx/tx = 0NAccomp 2 Balance Enable - YES MIDI Volume CC 7 rx/tx = ONAccomp 3 Balance Enable - YES MIDI VELOCITY rx = 127 ON

SPECIFICATIONS

Keyboard:

37 keys velocity sensitive

Sound Source System:

LA Digital Synthesis

Built-in Effect:

33 PCM Sound Effects, 30 PCM Drum sounds, Digital Reverb (8 types: Hall 1-2 etc.)

Panel Switch/Control:

VOLUME:

Master Volume Control

BALANCE:

Solo, Lower, Accomp 1/2/3, A/M Bass, Acc Drums, Sound Effects

FUNCTION:

Transpose, Master Tune, Footswitch (8 modes), Pitch Bender Range, Octave Range, Accomp 1/2/3, Balance enable, Accomp/Manual Bass Balance enable, Sound Effects Style sync, Arranger Chord Intelligence, Internal Memory Protection
MIDI - 10 instrumental sections, MIDI channel changeable

COMPOSER:

Record (Punch In) and Play (Six Tracks)
3 songs (1 song: approx. 200 measu-

ARRANGER:

Advanced, Hold, Sync Start, Sync Stop

STYLE/TONE SELECT:

Bank 1-4, Number 1-8, Card, Tempo Dial, Variation for each Style

TONE SELECT:

Solo, Lower, Manual Bass

MEMORY CARD:

From Card, To Card, Write

REVERB:

On/Off, Part Assign (Yes/No), Type (8 types)

Real Time Switches:

Fill-in (To Original, To Variation), Intro/Ending, Tap Tempo/Break Mute, Advanced Arranger, Start/Stop, Melody Intelligence, User Program Bank 1~6, Number 1~8, Write, Demo, Pitch Bender/Modulation Lever

Display:

16 characters × 2 lines (LCD back-lit)

Rear Panel Terminal: MIDI (OUT, THRU, IN)

Footswitch

Side Panel Terminal STEREO OUT (Right, Left/Mono) Headphones

Power Amplifier: 5 W × 2 (stereo)

Power Consumption: 20W

Dimensions:

649mm(W)×100mm(H)×347mm (D)

Weight: kg 8 Options:

Stereo Expression Pedal (FV-200) Memory Card (M-256D, M-256E) Style Card (RXN-E20)

USER PROGRAM PANEL SETTING MEMO

Please write your User Program panel settings on the memo below so you will have a written record of them.

MODEL: ROLAND PRO-E INTELLIGENT ARRANGER

SONG TITLE:

Accomp 1 - Accomp 2 - Accomp 3 - Accomp Bas - Manual Bass - Accomp Drums - Sound Effects - Lower part MIDI Ch = Lower x note shift = Lower part MIDI Ch = Accomp 1 rx limit low = upp = Lower x note shift = Accomp 1 rx limit low = upp = Accomp 1 rx limit low = upp = Accomp 1 rx note shift = Accomp 1 rx note shift = Accomp 1 rx limit low = upp = Accomp 1 rx note shift = Accomp 1 rx note shift = Accomp 2 rx limit low = upp = Accomp 1 rx note shift = Accomp 2 rx limit low = upp = Accomp 3 part MIDI Ch = Accomp 3 rx note shift = Accomp 4 Ranual Bas 7 rx note shift = Accomp 4 Ranual Bas 6 rx note shift = Accomp 5 rx note shift = Accomp 6 rx note shift = Accomp 1 rx limit low = upp =	Solo Tone - Lower Tone - Manual Bass Tone - Balance Solo - Lower -	Accomp 3 Balance Enable - Accomp Bass Balance Enable - Manual Bass Balance Enable - Sound Effects Style sync - Chord Intelligence -
Accomp 2 - Accomp 3 - Accomp Bass Manual Bass - Accomp Drums Sound Effects - Style - Tempo - Variation - Advanced Arranger - Hold - Sync Start - Sync Stop - Reverb Type - Reverb Type - Reverb Type - Relody Intelligence - Sound Effect pad a - Sound Effect pad b - Sound Effect pad c - Sound Effect pad c - Sound Effect pad c - Sound Effect pad d - Sound Effect pad c - Sound Effect pad		MIDI PIINCTIONS
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Sound Effect pad h - Sound Effect pad i - Sound Effect pad j - Sound Effect pad k - Sound Effect pad l - Transpose - Footswitch assign - Pitch Bend range - Solo Octave - Lower Octave - Manual Bass Octave - Accomp 1 Balance Enable - Sound Effect part MIDI Ch = Sound Effect part MIDI Ch = Sound Effect part MIDI Ch = RX Only part MIDI Ch = RX Only part MIDI Ch = Note To Arranger MIDI Ch = Note To A. limit low = upp = MIDI SOFT THRU For Local = Style PRG Change MIDI Ch = Style-Tone PRG C rx/tx = MIDI Real Time rx/tx = MIDI Volume CC 7 rx/tx =		1 =
Sound Effect pad i - Sound Effect pad j - Sound Effect pad k - Sound Effect pad k - Sound Effect pad l - Transpose - Footswitch assign - Pitch Bend range - Solo Octave - Lower Octave - Manual Bass Octave - Accomp 1 Balance Enable - Sound Effect rx limit low = upp = RX Only part MIDI Ch = RX Only part MIDI Ch = Note To Arranger MIDI Ch = Note To A. limit low = upp = MIDI SOFT THRU For Local = Style PRG Change MIDI Ch = Style-Tone PRG C rx/tx = MIDI Volume CC 7 rx/tx =		
Sound Effect pad j - Sound Effect pad k - Sound Effect pad l - Transpose - Footswitch assign - Pitch Bend range - Solo Octave - Lower Octave - Manual Bass Octave - Accomp 1 Balance Enable - Sound Effect rx note shift = RX Only part MIDI Ch = RX Only rx limit low = upp = RX Only note shift = RX Only part MIDI Ch = RX O		Sound Effect part MIDI Ch =
Sound Effect pad k - Sound Effect pad l - RX Only part MIDI Ch = RX Only rx limit low = upp = RX Only note shift = Note To Arranger MIDI Ch = Note To Arranger MIDI Ch = Note To A. limit low = upp = MIDI SOFT THRU For Local = Style PRG Change MIDI Ch = Style PRG Change MIDI Ch = Style-Tone PRG C rx/tx = MIDI Real Time rx/tx = MIDI Volume CC 7 rx/tx =		Sound Effect ry note shift
Sound Effect pad l - Transpose - Footswitch assign - Pitch Bend range - Solo Octave - Lower Octave - Manual Bass Octave - Manual Bass Octave - Accomp 1 Balance Enable - RX Only rx limit low = upp = RX Only rx limit low = upp = RX Only rx limit low = upp = Note To Arranger MIDI Ch = Note To A. limit low = upp = MIDI SOFT THRU For Local = Style PRG Change MIDI Ch = Style-Tone PRG C rx/tx = MIDI Real Time rx/tx = MIDI Volume CC 7 rx/tx =		
RX Only note shift = Transpose - Footswitch assign - Pitch Bend range - Solo Octave - Lower Octave - Manual Bass Octave - Manual Bass Octave - Accomp 1 Balance Enable - RX Only note shift = Note To Arranger MIDI Ch = Note To A. limit low = upp = MIDI SOFT THRU For Local = Style PRG Change MIDI Ch = Style-Tone PRG C rx/tx = MIDI Real Time rx/tx = MIDI Volume CC 7 rx/tx =		I DAT O 1 1 1 1/1
Transpose - Footswitch assign - Pitch Bend range - Solo Octave - Lower Octave - Manual Bass Octave - Accomp 1 Balance Enable - Note To Arranger MIDI Ch = Note To A. limit low = upp = MIDI SOFT THRU For Local = Style PRG Change MIDI Ch = Style-Tone PRG C rx/tx = MIDI Real Time rx/tx = MIDI Volume CC 7 rx/tx =	Sound Effect pad 1	
Pitch Bend range - Solo Octave - Lower Octave - Manual Bass Octave - Accomp 1 Balance Enable - MIDI SOFT THRU For Local = Style PRG Change MIDI Ch = Style-Tone PRG C rx/tx = MIDI Real Time rx/tx = MIDI Volume CC 7 rx/tx =	Transpose -	Note To Arranger MIDI Ch =
Pitch Bend range - Solo Octave - Lower Octave - Manual Bass Octave - Accomp 1 Balance Enable - MIDI SOFT THRU For Local = Style PRG Change MIDI Ch = Style-Tone PRG C rx/tx = MIDI Real Time rx/tx = MIDI Volume CC 7 rx/tx =		Note To A. limit low = upp =
Lower Octave - Manual Bass Octave - Accomp 1 Balance Enable - Style-Tone PRG C rx/tx = MIDI Real Time rx/tx = MIDI Volume CC 7 rx/tx =	Pitch Bend range -	MIDI SOFT THRU For Local =
Manual Bass Octave - Accomp 1 Balance Enable - MIDI Real Time rx/tx = MIDI Volume CC 7 rx/tx =		
Accomp 1 Balance Enable - MIDI Volume CC 7 rx/tx =		
Accomp 2 Datatice Dilabor		
	Accomp 2 balance Emable	

If you require additional USER PROGRAM SETTING MEMO pages, photocopying of this page is permitted.



MD INTELLIGENT ARRANGER



MIDI IMPLEMENTATION

Roland Exclusive Messages

1 Data Format for Exclusive Messages

Roland's MIDI implementation uses the following data format for all exclusive messages (type IV):

Byte	Description	
F0H	Exclusive status	
41H	Manufacturers ID (Roland)	
DEV	Device ID	
MDL	Model ID	
CMD	Command ID	
(BODY)	Main data	
F7H	End of exclusive	

MIDI status: FOH, F7H

An exclusive message must be flanked by a pair of status codes, starting with a Manufacturers-ID immediately after FOH (MIDI version 1.0).

Manufactures-ID: 41H

The Manufactures-ID identifies the manufacturer of a MIDI instrument that triggers an exclusive message. Value 41H represents Roland's Manufactures-ID.

Device-ID: DEV

The Device-ID contains a unique value that identifies the individual device in the multiple implementation of MIDI instruments. It is usually set to 00H-0FH, a value smaller by one than that of a basic channel, but value 00F-1FH may be used for a device with multiple basic channels.

Model-ID: MDL

The model-ID contains a value that uniquely identifies one model from another, different models, however, may share an identical Model-ID if they handle similar data.

The Model-ID format may contain 00H in one or more places to provide an extended data field. The following are examples of valid Model-IDs, each representing a unique model:

01H 02H 03H

00H, 01H 00H, 00H, 01H

Command-ID: CDM

The Command-ID indicates the function of an exclusive message. The Command-ID format may contain 00H in one or more places to provide an extended data field. The following are examples of valid Model-IDs, each representing a unique func-

01H 02H 03H 00H, 01H 00H, 00H, 01H

Main data: BODY

This field contains a message to be exchanged across an interfarce. The exact data size and contents will vary with the Model-ID and Command-ID.

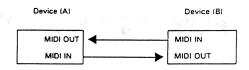
2 Address - mapped Data Transfer

Address mapping is a technique for transferring messages conforming to the data format given in Section 1. It assigns a series of memory-resident records--waveform and tone data, switch status, and parameters, for example--to specific locations in a machine-dependent address space, thereby allowing access to data residing at the address a message specifies. Address-mapped data transfer is therefore independent of models and data categories.

One-way transfer procedure (See Section 3 for details)

This procedure is suited for the trasnfer of a small amount of data. It sends out an exclusive message completely independent of a receiving device status.

Connection Diagram



Connection at point 2 is essential for «Request data» procedures (See Section 3).

3 One-way Transfer Procedure

This procedure sends out data all the way until it stops when the messages are so short that answer backs need not be checked.

For long messages, however, the receiving device must acquire each message in time with the transfer sequence, which inserts intervals of at least 20 milliseconds in between.

Types of Messages

Message	Command ID
Request data 1	RQ1 (11H)
Data set 1	DT1 (12H)

Request data 1: RQ1 (11H)

This message is sent out when there is no need to acquire data from a device at the other end of the interfarce. It contains data for the address and size that specify designation and length, respectively, of data required.

On receiving and RQ1 message, the remote device checks its memory for the data address and size that satisfy the request.

If it finds them and is ready for communication, the device will transmit a «Data set 1 (DT1)» message, which contains the requested data. Otherwise, the device will send out nothing.

Byte	Description
FOH	Exclusive status
41H	Manufacturers ID (Roland)
DEV	Device ID
MDL	Model ID
11H	Command ID
aaH	Address MSB
•	•
	•
	•
	•
	LSB
ssH	Size MSB
	•
	•
	•
	LSB
sum	Check sum
F7H	End of exclusive

 The size of the requested data does not indicate the number of bytes that will make up a DT1 message, but represents the address fields where the requested data resides.

the address fields where the requested data resides.

* Some models and data are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.

- * The same number of bytes comprises address and size data, which, however, vary with the Model ID.
- The error checking process uses a checksum that provides a bit pattern where lower seven bits are zero when values for an address, size, and that checksum are summed.

Data set 1: DT1 (12H)

This message corresponds to the actual data transfer process. Because every byte in the data is assigned a unique address, a DT1 message can convey the starting address (es) of one or more data as well as a series of data formatted in an addressdependent order.

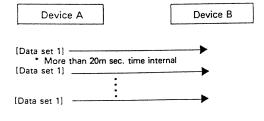
Although the MIDI standards inhibit non-real time messages from interrupting an exclusive one, some devices support a «solft-through» mechanism for such interrupts. To maintain compatibility with such devices, Roland limited the DT1 to 256 bytes so that an excessively long message is sent out in sepa-

Byte	Description
F0H	Exclusive status
41H	Manufacturers ID (Roland)
DEV	Device ID
MDL	Model ID
12H	Command ID
aaH	Address MSB
•	•
•	•
	•
•	•
	LSB
ddH	Data
	•
	•
	•
	•
sum	Check sum
F7H	End of exclusive

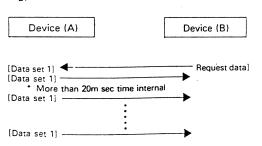
- A DT1 message is capable of providing only the valid data
- among those specified by an RQ1 message. Some models and data are subject to limitations data format used for a single transaction. Requested data for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
- * The number of bytes comprising address data varies from one Model-ID to another.
- The error checking process uses a checksum that provides a bit pattern where lower seven bits are zero when values for an address, size and that checksum are summed.

Example of Message Transactions

Device A sending data to Device B
 Transfer of a DT1 message is all that takes place.



• Device B requesting data from Device A Device B sends an RQ1 message to Device A. Checking the message, Device A sends a DT1 message back to Device



MODEL PRO-E MIDI Implementation

1. TRANSMITTED DATA

■ Note event

Status	Second	Third
8nH	kkH	vvH
9nH	kkH	00H

kkH: Note number 0CH - 78H (12-120) wH: Velocity 00H

Note on

Status	Second	Third
9nH	kkH	v vH

kkH: Note number 0CH - 78H (12-120) vvH: Velocity 1H-7FH (1-127)

Control Change

Continuous controller (7 bits)

010100	Occoria	Inira		
BnH	mmH	vvH		
Modulation Volume: Hold 1	mmH = 01H mmH = 07H mmH = 40H	wH = 0H - 7FH (0 - 127) wH = 0H - 7FH (0 - 127) wH = 0H - 3FH (0 - 63) OFF wH = 40H - 7FH (64 - 127) ON		

■ Program Change

Status Second cnH ppH

Patch Program Change

Section: Solo, Lower, Accompaniment 1, Accompaniment 2, Accompaniment 3, Accompaniment Bass, Manual Bass, RX only. ppH: program number 0H-7FH (0+127)

Style Program Change

ppH: program number 0H-54H (0-84)

User Program change ppH: program number 0H-30H (0-47, 48 = default power on setting)

	r	г						
BANK 1	0 ROCK 1	1 ROCK 2	DISCO 1	3 DISCO 2	4 FUNK 1	5 FUNK 2	6 BALLAD	7 S. ROCK
VAR.OF BANK 1	8	9	10	11	12	13	14	15
BANK 2	16 8 BEAT 1	17 8 BEAT 2	18 16 BEAT1	19 16 BEAT2	20 REGGAE	21 BOOGIE	22 ROCK	23 DIXIE
VAR. OF BANK 2	24	25	26	27	28	29	30	31
BANK 3	32 SWING	33 B. BAND	34 SHUFF.	35 COUNTRY	36 WALTZ1	37 WALTZ2	38 POLKA	39 MARCH
VAR. OF BANK 3	40	41	42	43	44	45	46	47
BANK 4	48 BAROQ.	49 BOSSAN	50 RHUMBA	51 CHACHA	52 SALSA	53 TANGO	54 SAMBA	55 FUSION
VAR. OF BANK 4	56	57	58	59	60	61	62	63
BANK C	64 (C1))	6 5 (C2)	66 (C3)	67 (C4)	68 (C5)	69 (C6)	70 (C7)	71 (C8)
VAR. OF BANK C	72	73	74	75	76	77	78	79
	80 FILL TO VARI	81 FILL TO ORIG.	82 INTRO	83 ENDING	84 BREAK MUTE			

Pitch Bender

Third Second Status mmH ШH EnH

IIH: 0H-7FH (0-127) mmH: 0H-7FH (0-127)

Channel mode Message

Third Second Status WH mmH

mmH = local control 122 vvH = 0, local control OFF vvH = 127, local control ON

Real Time Messages

Status timing clock F8H FAH stop

■ Created Message

System exclusive

Status

FOH: System Exclusive F7H: EOX (End of System Exclusive)
See "3. EXCLUSIVE COMMUNICATIONS" for details.

2. RECOGNIZED DATA

Note event

Note off

Status	Second	Third	
8nH	kkH	vvH	
9nH	kkH	00 H	

kkH: Note number OCH -6CH (12-108) wH: ignored

Note on

	Second	Third wH
9nH	kkH	WH

kkH: Note number OCH – 78H (12-120) vvH: Velocity 1H – 7FH (1 – 127)

■ Control Change

Continuous controller (14 bits)

Status	Second	Third		
BnH	mmH	vvH		
Modulation Volume: Panpot	mmH = 01H mmH = 07H mmH = 0AH mmH = 0BH	vvH=0H-7FH (0-127) vvH=0H-7FH (0-127) vvH=0H-7FH (0-127) vvH=0H-7FH (0-127)		

Continuos controller (7 bits)

Status	Second	Third		
BnH	mmH	wH .		
Hold 1	mmH = 40H	wH = 0H - 3FH (0 - 63) OFF wH = 40H - 7FH (64 - 127) ON		

■ Program Change

Status	Second
CoH	nnH

Patch Program Change
Section: Solo, Lower, Accompaniment 1, Accompaniment 2, Accompaniment 3, Accompaniment Bass, Manual Bass, RX only.

ppH: program number 0H – 7FH (0 + 127)

Style Program Change ppH: program number 0H-54H (0-84)

User Program change ppH: program number 0H-30H (0-47, 48 = default power on set:

BANK 1	0 ROCK 1	1 ROCK 2	DISCO 1	3 DISCO 2	4 FUNK 1	5 FUNK 2	6 BALLA
VAR.OF BANK 1	8	9	10	11	12	13	14
BANK 2	16 8 BEAT 1	17 8 BEAT 2	18 16 BEAT1	19 16 BEAT2	20 REGGAE	21 BOOGIE	22 ROCK
VAR. OF BANK 2	24	25	26	27	28	29	30
BANK 3	32 SWING	33 B. BAND	34 SHUFF.	35 COUNTRY	36 WALTZ1	37 WALTZ2	38 POLK
VAR. OF BANK 3	40	41	42	43	44	45	46
BANK 4	48 BAROQ.	49 BOSSAN	50 RHUMBA	51 CHACHA	52 SALSA	53 TANGO	54 SAME
VAR. OF BANK 4	56	57	58	59	60	61	62
BANK C	64 (C1))	65 (C2)	66 (C3)	67 (C4)	68 (C5)	69 (C6)	70 (C7)
VAR. OF BANK C	72	73	74	75	76	77	78
	80 FILL TO VARI	81 FILL TO ORIG.	82 INTRO	83 ENDING	84 BREAK MUTE	を ます おり	

■ Pitch Bender

Status	Second	Third
EnH	IIH	mmH

IIH: 0H-7FH (0-127) mmH: 0H-7FH (0-127)

■ Channel mode Message

Status	Second	Third
BnH	mmH	0 0H

mmH: All notes Off 7BF (123) Omni Off 7CH (124) Omni On 7DH (124) Mono On 7EH (124) Poly On 7FH (128)

Recognized as only All Notes Off.
PRO-E does not change mode, but remains in mode 3

Real Time Messages

Status		_
 F8H	timing clock	
FAH	start	
FCH	stop	

■ System exclusive

Status	
FOH:	System Exclusive
F7H:	EOX (End of System Exclusive)

3. EXCLUSIVE COMMUNICATIONS

Model-ID # is 22 H

■ One way communication

Request **RQ1 11H**

When the RQ1 received contains a start address listed in Parameter base a address size is 1 or more, PRO-E sends the corresponding data. PRO-E won't transmit RQ1 in the default mode.

Byte	Description	
F0H	Exclusive status	
41H	Roland-ID	
DEV	Device-ID	
22 H	Model-ID	
11H	Command-ID (RQ1)	
aaH	Address MSB	*3 - 1
aaH	Address	
aaH	Address LSB	
ssH	Size MSB	
ssH	Size	
ssH	Size LSB	
sum	Checksum	
F7H	EDX (End of Exclusive)	

Data Set DT1 12H

When the DT1 contains a start address as defined in RQ1 above, PRO-E stores the data into a memory location.

PRO-E sends this message upon receiving RQ1 in the default mode.

Notes: 3-1 Address & size should be the address where data exist.

4. ADDRESS MAPPING OF USERS PROGRAMS AND COMPOSER DATA

Addresses are shown in Hexa-decimal, while numbers are given in 7 bits.

Address	MSB		LSB
binary	Oaaa aaaa	Obbb bbbb	Occc cccc
7bit Hex	AA	BB	

The actual address of users programs and composer data is the sum of the start address of each block and one or more offset address.

■ User programs and composer base address accessible on Unit # 10

Sta	rt dress	3	Description
00	61	7F	User programs area
01	40	00	Composer area (Song*1)
02	40	00	Composer area (Song*2)
03	40	00	Composer area (Song*3)
04	40	00	Style card (bank*1) Style card (bank*2) Style card (bank*3) Style card (bank*4)
05	40	00	
06	40	00	
07	40	00	

■ User programs area

Off	set iress	Siz	е		Description
00 01 01 - -	00 20 70 - - 30	00 00 00 - -	00 00 00 - -	50 50 50 - - 50	User program # 11 * 4-1 User program # 12 * 4-1 User program # 12 * 4-1 User program # 68 * 4-1

Composer data area

Offset address			Description	
 00 00	00 40	00	Song # 1 * 4-1	
00 00	00 40	00	Song # 2 * 4-1	
00 00	00 40	00	Song # 3 * 4-1	

Style card data area

ind

Offset address	Size		Description
00 00	00 40	00	Bank # 1 * 4-1
00 00	00 40	00	Bank # 2 * 4-1
00 00	00 40	00	Bank # 3 * 4-1
00 00	00 40	00	Bank # 4 ° 4-1
Notes			NURRI CO

 * 4-1 User programs and composer data must be sent-received in NIBBLES

BIT 7	: 0
BIT 6	: 0
BIT 5	: 0
BIT 4	: 0
BIT 3	
BIT 2	: data
BIT 1	:
BIT 0	

LSB NIBBLE must be sent/received first. Data are packed in 256 bytes (1 byte contains only 1 nibble) data pack.

■ User program structure

	Offse	
00	00H	Solo Volume on/off (bit 7), volume (bit $6-0$) $(0-100)$
00	01H	Lower Volume on/off (bit 7), volume (bit $6-0$) $(0-100)$
00	02H	Acc1 Volume on/off (bit 7), volume (bit $6-0$) $(0-100)$
00	03H 04H	ManBass Volume on/off (bit 7), volume (bit 6−0) (0−100) Acc Drums Volume on/off (bit 7), volume (bit 6−0) (0−100)
00	05H	Acc Drums Volume on/off (bit 7), volume (bit $6-0$) (0-100) Sound Effect Volume on/off (bit 7), volume (bit $6-0$) (0-100)
00	06H	Acc2 Volume on/off (bit 7), volume (bit $6-0$) $(0-100)$
00	07H	Acc3 Volume on/off (bit 7), volume (bit $6-0$) $(0-100)$
00	H80	Acc Bass Volume on/off (bit 7), volume (bit 6-0) (0-100)
00	09H 0A	Solo Voice Bank (bit 6,5,4,3) Number (bit 2,1,0) Lower Voice Bank (bit 6,5,4,3), Number (bit 2,1,0)
00	0BH	
00	0CH	Style Bank (bit 5,4,3), Number (bit 2,1,0)
•	0011	(bank $0-3$ = internal styles; bank 4 = card styles)
00		Sound Effect 1 (76-112) Sound Effect 2 (76-112)
00		Sound Effect 3 (76—112)
00	10H	Sound Effect 4 (76-112)
00	11H	Sound Effect 5 (76—112)
00	12H 13H	Sound Effect 6 (76—112) Sound Effect 7 (76—112)
00	14H	Sound Effect 7 (76—112) Sound Effect 8 (76—112)
00	15H	Sound Effect 9 (76—112)
00	16H	Sound Effect 10 (76-112)
00	17H	Sound Effect 11 (76—112)
00	18H 1ΔH	Sound Effect 12 (76–112) Rx Velocity on/off (bit 7), velocity value (bit 6–0)
00	1BH	Tempo in B.P.M. (20—250)
00	1CH	MIDI lower limit Solo (12-120)
00	IDH	upper limit Solo (12—120)
00	1EH 1FH	shift Solo (-96, +96) lower limit Lower (12-120)
	20H	upper limit Lower (12—120)
00	21H	shift Lower (-96, +96)
00	22H	lower limit Accomp.1 (12-120)
00	23H 24H	upper limit Accomp. 1 (12—120) shift Accomp. 1 (—96, +96)
00	25H	shift Accomp.1 (—96, +96) lower limit Accomp.2 (12—120)
00	26H	upper limit Accomp.2 (12—120)
00	27H	shift Accomp.2 (-96, +96)
00	28H 29H	lower limit Accomp.3 (12—120)
00	2AH	upper limit Accomp.3 (12—120) shift Accomp.3 (—96, +96)
00	2BH	lower limit Accomp. Bass (12—120)
	2CH	upper limit Accomp. Bass (12—120)
00	2DH 2EH	shift Accomp. Bass (-96, +96)
00	2FH	lower limit Manual Bass (12—120) upper limit Manual Bass (12—120)
00		shift Manual Bass (-96, +96)
00	31H	lower limit Drums (12—120)
00	32H 33H	upper limit Drums (12—120)
00	34H	shift Drums (-96, +96) lower limit Effect (12-120)
00	35H	upper limit Effect (12—120)
00	36H	shift Effect (-96, +96)
00	37H 38H	lower limit RXonly (12—120) upper limit RXonly (12—120)
00	39H	upper limit RXonly (12—120) shift RXonly (—96, +96)
00	3AH	lower limit Note to Arranger (12-120)
00	38H	upper limit Note to Arranger (12 – 120)
00	3DH	lower Octave (bit 7-4), (-2, +3 two complement)
00	3EH	solo octave (bit $3-0$) (-2 , $+3$ two complement) Foot Switch (bit $6-4$)
		Man Bass Octave (bit $3-0$) (-2 , $+3$ two complement)
00	3FH	Midi on/off (bit 7), channel Solo (bit 3-0)
00	40H 41H	Midi on/off (bit 7), channel Lower (bit 3—0)
00	41H 42H	Midi on/off (bit 7), channel Acc1 (bit 3-0) Midi on/off (bit 7), channel Acc2 (bit 3-0)
00	43H	Midi on/off (bit 7), channel Acc3 (bit 3–0)
00	44H	Midi on/off (bit 7), channel Acc Bass (bit 3-0)
00	45H	Midi on/off (bit 7), channel Man Bass (bit 3—0)
00	46H 47H	Midi on/off (bit 7), channel Drums (bit 3-0) Midi on/off (bit 7), channel Sound Effect (bit 3-0)
00	48H	Midi on/off (bit 7), channel RX Only (bit 3—0)
00	49H	Midi on/off (bit 7), channel Note to Arr (bit 3-0)
00	4AH	Midi on/off (bit 7), channel Style Prg. Ch. (bit 3-0)
00	4BH	Transposer (bit 7-3) $(-11, +11 \text{ two complement})$ Pitch Bend Range (bit 2-0)
		Their being fruit 2-0/

00	48H	Transposer (bit 7-3) Pitch Bend Range (bit 2-0)	(-11, +11 two complement
00	4CH	accompaniment bass Volume on/off manual bass Volume on/off style/tone prog. ch.: Rx/Tx/On/Off midi Soft Thru on/off accompaniment 3 Volume on/off accompaniment 1 Volume on/off accompaniment 1 Volume on/off	(bit 6),
00	4DH	midi Rx/Tx Real Time on/off midi Rx/Tx volume Control Change Reverb. Type	(bit 7),
00	4EH	sound effect drums Sync on/off (1 = 96th or 0 = fixed clock) arranger Chord intelligence on/off	(bit 7) (bit 0)
00	4FH	Sync Start Sync Stop Reverb ON/OFF arranger Hold advanced Arranger Variation Melody Intelligence on/off Transposer on/off	(bit 7), (bit 6), (bit 5), (bit 4), (bit 3), (bit 2), (bit 1), (bit 0)

String request for all user program F0-41-10-22-11-00-61-7F-00-30-00-70-F7	USER ALL
String request for song # 1 F0-31-10-22-11-01-40-00-00-40-00-7F-F7	SONG # 1
String request for song # 2 F0-41-10-22-11-02-40-00-00-40-00-7E-F7	SONG # 2
String request for song # 3 F0-41-10-22-11-03-40-00-00-40-00-7D-F7	SONG # 3
String request for style Card (Bank # 1) F0-41-10-22-11-04-40-00-00-40-00-7C-F7	STYLE CARD BANK # 1
String request for style Card (Bank # 2) F0-41-10-22-11-04-40-00-00-40-00-7B-F7	STYLE CARD BANK # 2
String request for style Card (Bank # 3) F0-41-10-22-11-06-40-00-00-40-00-7A-F7	STYLE CARD BANK # 3
String request for style Card (Bank # 4) F0-41-10-22-11-07-40-00-00-40-00-79-F7	STYLE CARD BANK # 4

Notes $^{\bullet}$ 6–2 The content of address 0011H and 0012H are the same.

DUMP REQUEST EXAMPLES

START SYS.EXC. - ROLAND-UNIT # - MODEL # - RQ1 - aa3 - aa2 - aa1 - ss3 - ss2 ss1 - CHECKSUM-END SYS

F0-41-10-22-11-00-61-7F-00-00-50-50-F7	USER PROGRAM # 11
F0-41-10-22-11-00-62-4F-00-00-50-7F-F7	USER PROGRAM # 12
F0-41-10-22-11-00-63-1F-00-00-50-2E-F7	USER PROGRAM # 13
F0-41-10-22-11-00-63-6F-00-00-50-5E-F7	USER PROGRAM # 14
F0-41-10-22-11-00-64-3F-00-00-50-0D-F7	USER PROGRAM # 15
F0-41-10-22-11-00-65-0F-00-00-50-3C-F7	USER PROGRAM # 16
F0-41-10-22-11-00-65-5F-00-00-50-6C-F7	USER PROGRAM # 17
F0-41-10-22-11-00-66-2F-00-00-50-1B-F7	USER PROGRAM # 18
F0-41-10-22-11-00-66-7F-00-00-50-4B-F7	USER PROGRAM # 21
F0-41-10-22-11-00-67-4F-00-00-50-7A-F7	USER PROGRAM # 22
F0-41-10-22-11-00-68-1F-00-00-50-29-F7	USER PROGRAM # 23
F0-41-10-22-11-00-68-6F-00-00-50-59-F7	USER PROGRAM # 24
F0-41-10-22-11-00-69-3F-00-00-50-08-F7	USER PROGRAM # 25
F0-41-10-22-11-00-68-0F-00-00-50-37-F7	USER PROGRAM # 26
F0-41-10-22-11-00-6A-5F-00-00-50-67-F7	USER PROGRAM # 27
F0-41-10-22-11-00-6A-5F-00-00-50-16-F7	USER PROGRAM # 28
F0-41-10-22-11-00-6B-7F-00-00-50-16-F7	USER PROGRAM # 31
F0-41-10-22-11-00-66-7F-00-00-50-46-F7	USER PROGRAM # 32
F0-41-10-22-11-00-60-4F-00-00-50-75-F7 F0-41-10-22-11-00-6D-1F-00-00-50-24-F7	USER PROGRAM # 33
F0-41-10-22-11-00-6D-6F-00-00-50-54-F7	USER PROGRAM # 34
F0-41-10-22-11-00-6E-3F-00-00-50-03-F7	USER PROGRAM # 35
F0-41-10-22-11-00-6F-0F-00-00-50-32-F7	USER PROGRAM # 36
F0-41-10-22-11-00-6F-5F-00-00-50-62-F7	USER PROGRAM # 37
F0-41-10-22-11-00-70-2F-00-00-50-11-F7	USER PROGRAM # 38
F0-41-10-22-11-00-70-7F-00-00-50-41-F7	USER PROGRAM # 41
F0-41-10-22-11-00-70-76-00-00-50-41-F7 F0-41-10-22-11-00-71-4F-00-00-50-70-F7	USER PROGRAM # 42
F0-41-10-22-11-00-71-4F-00-00-50-70-F7	USER PROGRAM # 43
F0-41-10-22-11-00-72-17-00-00-50-17-77 F0-41-10-22-11-00-72-6F-00-00-50-4F-F7	USER PROGRAM # 44
F0-41-10-22-11-00-72-0F-00-00-50-4F-F7	USER PROGRAM # 45
F0-41-10-22-11-00-73-3F-00-00-50-2D-F7	USER PROGRAM # 46
F0-41-10-22-11-00-74-0F-00-00-50-5D-F7	USER PROGRAM # 47
F0-41-10-22-11-00-75-2F-00-00-50-0C-F7	USER PROGRAM # 48
F0-41-10-22-11-00-75-7F-00-00-50-3C-F7	USER PROGRAM # 51
F0-41-10-22-11-00-75-7F-00-00-30-50-17	
F0-41-10-22-11-00-77-1F-00-00-50-1A-F7	USER PROGRAM # 53
F0-41-10-22-11-00-77-6F-00-00-50-4A-F7	USER PROGRAM # 54
F0-41-10-22-11-00-77-01-00-00-30-43-17	USER PROGRAM # 55
F0-41-10-22-11-00-79-0F-00-00-50-28-F7	USER PROGRAM # 56
F0-41-10-22-11-00-79-5F-00-00-50-58-F7	USER PROGRAM # 57
F0-41-10-22-11-00-7A-2F-00-00-50-07-F7	USER PROGRAM # 58
F0-41-10-22-11-00-7A-7F-00-00-50-37-F7	USER PROGRAM # 61
F0-41-10-22-11-00-7B-4F-00-00-50-66-F7	USER PROGRAM # 62
F0-41-10-22-11-00-7C-1F-00- 00-50-15 -F7	USER PROGRAM # 63
F0-41-10-22-11-00-7C-6F-00- 00-50-45 -F7	USER PROGRAM # 64
F0-41-10-22-11-00-7D-3F-00-00-50-74-F7	USER PROGRAM # 65
F0-41-10-22-11-00-7E-0F-00-00-50-23-F7	USER PROGRAM # 66
F0-41-10-22-11-00-7E-5F-00- 00-50-53- F7	USER PROGRAM # 67
F0-41-10-22-11-00-7E-2F-00-00-50-02-F7	USER PROGRAM # 68
10 11 10 22 11 00 11 21 00 00 00 00 11 1	

MODEL: ROLAND PRO-E

MIDI IMPLEMENTATION CHART

FUNCTION		TRANSMITTED	RECOGNIZED	REMARKS
Basic	Default	2-3-4-5-6-7-8 10-11-12	2-3-4-5-6-7-8 9-10-11-12	1=NOTE TO ARR. 8=ACC. BASS 2=MAN. BASS 9=RX ONLY 3=LOWER 10=STYLE 4=SOLO P. CHANGE 5=ACCOMP.1 10=DRUMS
Channel	Changed	1—16, OFF	1—16, OFF	6=ACCOMP.1 10=DROMS 6=ACCOMP.2 11=SOUND EFF 7=ACCOMP.3 12=USER PROG
Mode	Default Message Altered	MODE 3 × *******	MODE 3 × ×	
Note Number	True voice	0-120 ******	0 — 127 12 — 120	
Velocity	Note ON Note OFF	O X	○ * ×	
After Touch	Key's Ch's	×	× ×	
Pitch Bender		0	0	
Control Change	1 7 10 11 12—63 64 65—121	0 0 * × × × × 0 *	0 0 * 0 0 × 0 ×	MODULATION PART VOLUME PAN POT EXPRESSION HOLD 1
Program Change	True #	0-127 ********	0—127 0—127	STYLE PATTERN 0-84 USER PROGRAMS 0-48
System Exclusive		0	0	
-	: Song Pos. : Song Sel : Tune	× × ×	× × ×	
System Real Time	: Clock : Commands	0 * 0 *	0 * 0 *	
Aux Messages	: Local ON/OFF : All Notes OFF : Active Sense : Reset	0 × 0 ×	>: ○ (123—127) ○ >	
Notes		* can be set ○ or × MANL	JALLY	L

Mode 1 : OMNI ON, POLY
Mode 2 : OMNI OFF, POLY

Mode 3 : OMNI ON, MONO Mode 4 : OMNI OFF, MONO

○ : Yes ※ : No

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