PORTATONE
PSR-S700
PSR-S900
SERVICE MANUAL

● PSR-S700

● PSR-S900

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PK 001780
PSR-S700: 20070601-131250
PSR-S900: 20070601-220500

YAMAHA
HAMAMATSU, JAPAN

IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING : Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT : This presentation or sale of this manual to any individual or firm does not constitute authorization certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is belived to be accurate and applicable to the unit(s) indicated on the cover. The research engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING : Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground bus in the unit (heavy gauge black wires connect to this bus.)

IMPORTANT : Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

WARNING: CHEMICAL CONTENT NOTICE!

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

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Connecting the Plug and Cord

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

BLUE : NEUTRAL BROWN : LIVE

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

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

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

Making sure that neither core is connected to the earth terminal of the three pin plug.

WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

⚠印の部品は、安全を維持するために重要な部品です。交換する場合は、安全のために必ず指定の部品をご使用ください。

SAVING DATA（データの保存）

Be sure to perform it

Saving and backing up your data

The data of the types listed below are lost when you turn off the power to the instrument. Save the data to the USER tab display, or USB storage device (USB flash memory/floppy disk, etc).

- Recorded/Edited Songs
- Created/Edited Styles
- Edited Voices
- Memorized One Touch Settings
- Edited MIDI settings

Moreover, the above-mentioned data can be saved all at once. Data in the USER tab display may be lost due to malfunction or incorrect operation. Save important data to a USB storage device (USB flash memory/floppy disk, etc).

必ず実行

作成したデータの保存とバックアップ

編集中 / 録音中のソング、スタイル、マルチパッドや編集中のボイス、レジストレーションメモリーバンク、MIDI 設定は、電源を切ると消えてしまいます。保存しておきたいデータは「ユーザー」画面や USB 記憶装置 (USB フラッシュメモリー / フロッピーディスクなど) に保存してください。これらのデータは一括で保存することができます。また、「ユーザー」画面に保存したデータは故障や誤操作などのために失われることがあります。大切なデータは、USB記憶装置 (USB フラッシュメモリー / フロッピーディスクなど) に保存してください。

SPECIFICATIONS

Model Name			PSR-S900	PSR-S700
Sound Source			AWM Stereo Sampling	
Keyboard			61 keys (C1-C6 with Initial Touch)	
Display			320 x 240 dots QVGA Color LCD	320 x 240 dots QVGA B/W LCD
	Music Score, Lyrics		YES	
	Text		YES	–
Voice	**Polyphony (max)**		128	96
	Voice Selection		392 voices + 480 XG voices 19 Drum/SFX Kits + GM2 + GS voices for GS Song playback	317 voices + 480 XG voices 16 Drum/SFX Kits + GM2 + GS voices for GS Song playback
		S. Articulation! Voice	23	–
		Mega Voice	15	10
		Live! Voice	20	14
		Cool! Voice	26	18
		Sweet! Voice	22	11
		Organ Flutes! Voice	10	10
		Regular Voice	276	254
	Voice Editing (Voice Set)		YES	
Effects	**Effect Blocks**	**Reverb/Chorus/DSP**	6	
		Microphone	1	–
	Effect Types	**Reverb/Chorus/DSP**	Reverb: 34 Preset + 3 User Chorus: 29 Preset + 3 User DSP 1: 191 Preset + 3 User DSP 2-4: 106 Preset + 10 User	
		Master EQ	5 Preset + 2 User	
		Part EQ	28 Parts	
	Vocal Harmony		60 Preset + 10 User	–
Accompaniment Style	**Accompaniment Styles**		305	205
		Pro Styles	281	193
		Session Styles	24	12
	Mega Voice/Style		YES	
	Fingering		Single Finger, Fingered, Fingered On Bass, Multi Finger, AI Fingered, Full Keyboard, AI Full Keyboard	
	Style Creator		YES	
	OTS (One Touch Setting)		4 for each Style	
	OTS Link		YES	
	Music Finder	**Preset**	YES	
		Edit	YES	
	RAM Capacity		120 KB	
Song	**Preset Songs**		5 samples	
	Guide		Follow Lights, Any Key, Karao-Key, Vocal CueTIME	Follow Lights, Any Key, Karao-Key
	Performance assistant technology		YES	
	Recording		Quick Recording, Multi Recording, Step Recording, Song Editing	
		Record Channels	16	
	RAM Capacity		300 KB	
USB Audio Recorder			YES	–
Multi Pad	**Preset**		4 Pads x 95 Banks	4 Pads x 80 Banks
Internet Direct Connection			LAN Port, Wireless Game Adaptor (via LAN Port), External Adaptor (via USB to DEVICE)	

Model Name			PSR-S900	PSR-S700
Memory Device	USB Flash Memory		YES	
	Floppy Disk (2HD, 2DD)		External Adaptor (via USB TO DEVICE)	
	Hard Disk		External Adaptor (via USB TO DEVICE)	
	Flash Memory (Internal)		1.4 MB	560 KB
	Memory Card (SmartMedia, etc.)		External Adaptor (via USB TO DEVICE)	
Tempo	Tempo Range		5 - 500, Tap Tempo	
	Metronome		Yes	
		Sound	Bell on/off	
Registration Memory	Buttons		8	
	Regist. Sequence / Freeze		YES	
Others	Demo		YES	
	Language for Display		6 Languages (English, Japanese, German, French, Spanish, Italian)	
	Direct Access		YES	
	Transpose		Keyboard/Song/Master	
	Scale Type		9	
Computer Connection	USB to HOST		YES	
	USB to DEVICE		YES	
Other Connectors			PHONES, MIDI (IN, OUT), FOOT PEDAL (1, 2), AUX IN (R, L/L+R), OUTPUT (R, L/L+R), LAN	
			MIC (INPUT VOLUME, MIC/LINE IN), VIDEO OUT	–
Pedal Functions			VOLUME, SUSTAIN, SOSTENUTO, SOFT, GLIDE, PORTAMENTO, PITCHBEND, MODULATION, S.ARTICULATION (PSR-S900), DSP VARIATION, SONG PLAY/PAUSE, STYLE START/STOP, etc.	
Amplifiers/ Speakers	Amplifiers		12 W x 2	
	Speakers		(12 cm + 4 cm (dome)) x 2	(12 cm + 5 cm) x 2
Power Consumption			40 W	35 W
Dimensions [W x D x H]			1003 mm x 433 mm x 148 mm (39 5/8" x 17 1/8" x 5 7/8")	
Weight			11.5 kg (25 lbs., 5 5/8 oz)	
Optional Accessories	Headphones		HPE-150/HPE-30	
	Footswitch		FC4/FC5	
	Foot Controller		FC7	
	Floppy Disk Drive		UD-FD01	
	AC Power Adaptor		PA-300B/PA-300	
	Keyboard stand		L-6/L-7	
Accessories			Guide to Yamaha Online Member Product User Registration, Accessory CD-ROM for Windows, Owner's Manual, Accessory CD-ROM for Windows Installation Guide, Music Rest, AC Power Adaptor (PSR-S900: PA-300B or an equivalent*, PSR-S700: PA-301 or an equivalent*) * May not be included depending on your particular area.	

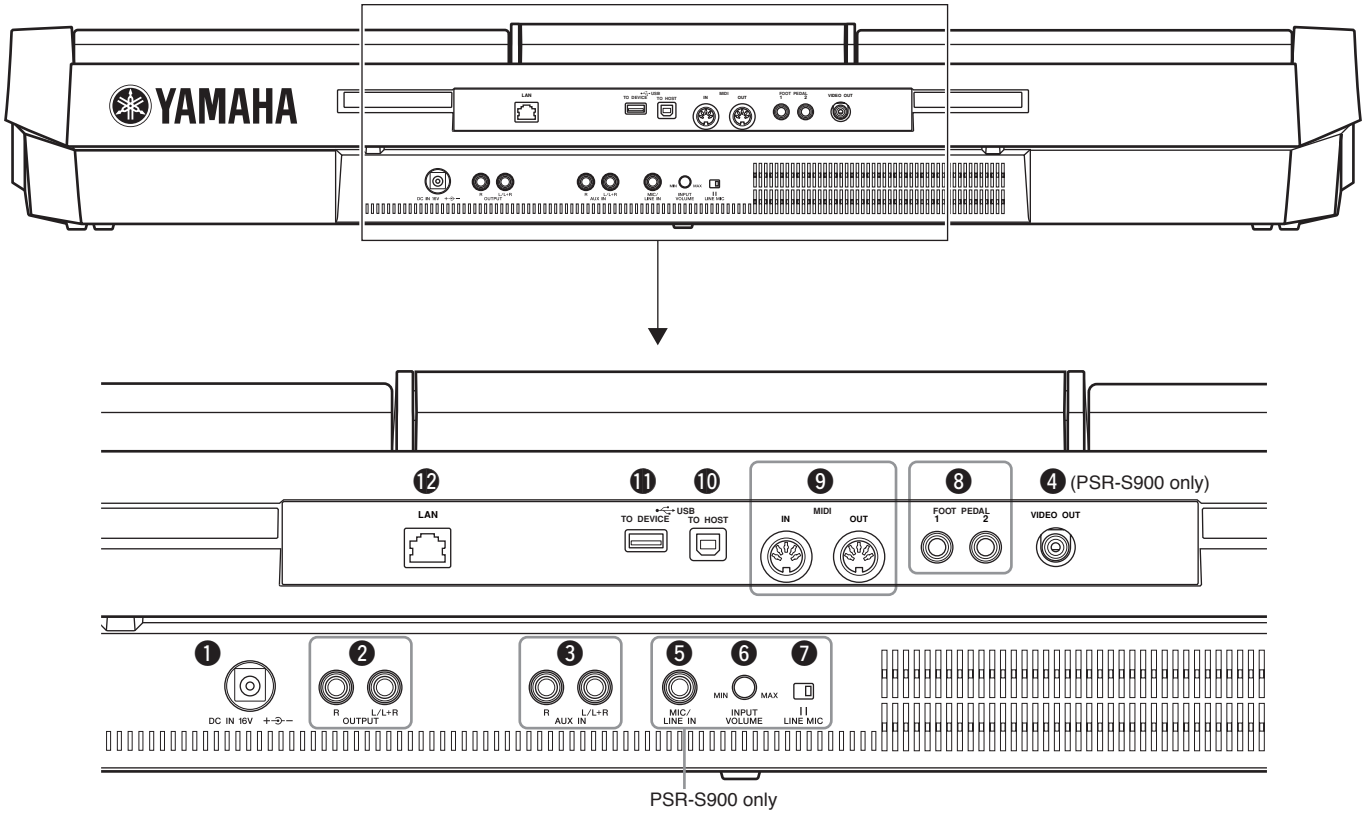
■ 総合仕様

モデル名			PSR-S900	PSR-S700
音源			AWM 音源ステレオサンプリング	
鍵盤			61 鍵 (C1 ～ C6、タッチレスポンス付き)	
ディスプレイ			320 × 240 ドット QVGA カラー LCD	320 × 240 ドット QVGA LCD
	譜面表示、歌詞表示		○	
	テキスト (文字) 表示		○	―
ボイス	最大同時発音数		128	96
	内蔵ボイス数		392 ボイス + 480 XG ボイス 19 ドラム /SFX キット + GM2 + GS (GS ソング再生用)	317 ボイス + 480 XG ボイス 16 ドラム /SFX キット + GM2 + GS (GS ソング再生用)
		スーパーアーティキュレーションボイス	23	―
		メガボイス	15	10
		ライブボイス	20	14
		クールボイス	26	18
		スイートボイス	22	11
		オルガンフルート	10	10
		レギュラーボイス	276	254
	ボイス編集		○	
エフェクト	エフェクトブロック	リバーブ /コーラス /DSP	6	
		マイク	1	―
	エフェクトタイプ	リバーブ /コーラス /DSP	リバーブ : 34 プリセット +3 ユーザー コーラス : 29 プリセット +3 ユーザー DSP 1: 191 プリセット +3 ユーザー DSP 2-4: 106 プリセット +10 ユーザー	
		マスターイコライザー	5 プリセット +2 ユーザー	
		パートイコライザー	28 パート	
	ボーカルハーモニー		60 プリセット + 10 ユーザー	―
スタイル	内蔵スタイル数		305	205
		プロ	281	193
		セッション	24	12
	メガボイススタイル		○	
	フィンガリング		シングルフィンガー、フィンガード、フィンガードオンベース、 マルチフィンガー、AI フィンガード、フルキーボード、AI フルキーボード	
	スタイルクリエーター		○	
	OTS（ワンタッチセッティング）		各スタイルに 4 種類	
	OTS リンク		○	
	ミュージックファインダー	プリセット	○	
		エディット	○	
	RAM 容量		120 KB	
ソング	内蔵ソング数		5	
	ガイド		フォローライツ、エニーキー、 カラオキー、ボーカルキュータイム	フォローライツ、エニーキー、 カラオキー
	パフォーマンスアシスタント		○	
	録音		クイック録音、多重録音、ステップ録音、ソング編集	
		録音チャンネル数	16	
	RAM 容量		300 KB	
USB オーディオレコーダー			○	―
マルチパッド	プリセット		4 パッド× 95 バンク	4 パッド× 80 バンク
インターネットダイレクト接続			LAN 端子使用、無線 LAN イーサネットコンバーター (LAN 端子使用)、 USB-LAN アダプター (USB TO DEVICE 端子使用)	

モデル名			PSR-S900	PSR-S700
記憶媒体デバイス	USB フラッシュメモリー		接続可	
	フロッピーディスク (2HD, 2DD)		USB タイプ フロッピーディスクドライブ接続可 (USB TO DEVICE 端子使用)	
	ハードディスク		USB タイプ ハードディスク接続可 (USB TO DEVICE 端子使用)	
	フラッシュメモリー (内蔵)		1.4 MB	560 KB
	メモリーカード (スマートメディアなど)		USB タイプ メモリーカードリーダー接続可 (USB TO DEVICE 端子使用)	
テンポ	テンポ範囲		5 ～ 500、タップテンポ	
	メトロノーム		○	
		サウンド	ベルオン / オフ	
レジストレーションメモリー	ボタン		8	
	レジストレーションシーケンス / フリーズ		○	
その他	デモ		○	
	ディスプレイに表示される言語		6 言語 (日、英、独、仏、西、伊)	
	ダイレクトアクセス		○	
	トランスポーズ		キーボード、ソング、マスター	
	スケールチューン		9	
USB 接続	USB TO HOST（コンピューター接続）		○	
	USB TO DEVICE		○	
付属端子			PHONES 端子、MIDI (IN, OUT) 端子、FOOT PEDAL (1, 2) 端子、AUX IN (R, L/L+R) 端子、OUTPUT (R, L/L+R) 端子、LAN 端子	
			マイク端子 (INPUT VOLUME, MIC/LINE IN)、VIDEO OUT 端子	―
ペダルに割り当てられる機能			ボリューム、サステイン、ソステヌート、ソフト、グライド、ポルタメント、ピッチベンド、モジュレーション、スーパーアーティキュレーション (PSR-S900)、DSP バリエーション、ソングプレイ / ポーズ、スタイルスタート / ストップ、その他	
アンプ出力 / スピーカー	アンプ出力		12W × 2	
	スピーカー		［12 cm ＋ 4 cm（ドーム）］× 2	［12 cm ＋ 5 cm］× 2
電源アダプター			PA-300B または同等品	PA-301(非売品) または同等品
消費電力			40 W	35 W
寸法［間口×奥行×高さ］			1003 mm × 433 mm × 148 mm	
質量			11.5 kg	
別売品	ヘッドフォン		HPE-150/HPE-30	
	フットスイッチ		FC4/FC5	
	フットコントローラー		FC7	
	USB-FDD ユニット		UD-FD01	
	電源アダプター		PA-300B	
	キーボードスタンド		L-6/L-7	
	キーボードソフトケース		SCC-53	
付属品			保証書、アクセサリー CD-ROM、取扱説明書、取扱説明書別冊「インストールガイド」、AC アダプター（PSR-S900: PA-300B または同等品、PSR-S700: PA-301 または同等品）、譜面立て	

■ PANEL LAYOUT（パネルレイアウト）

• Rear Panel（リアパネル）

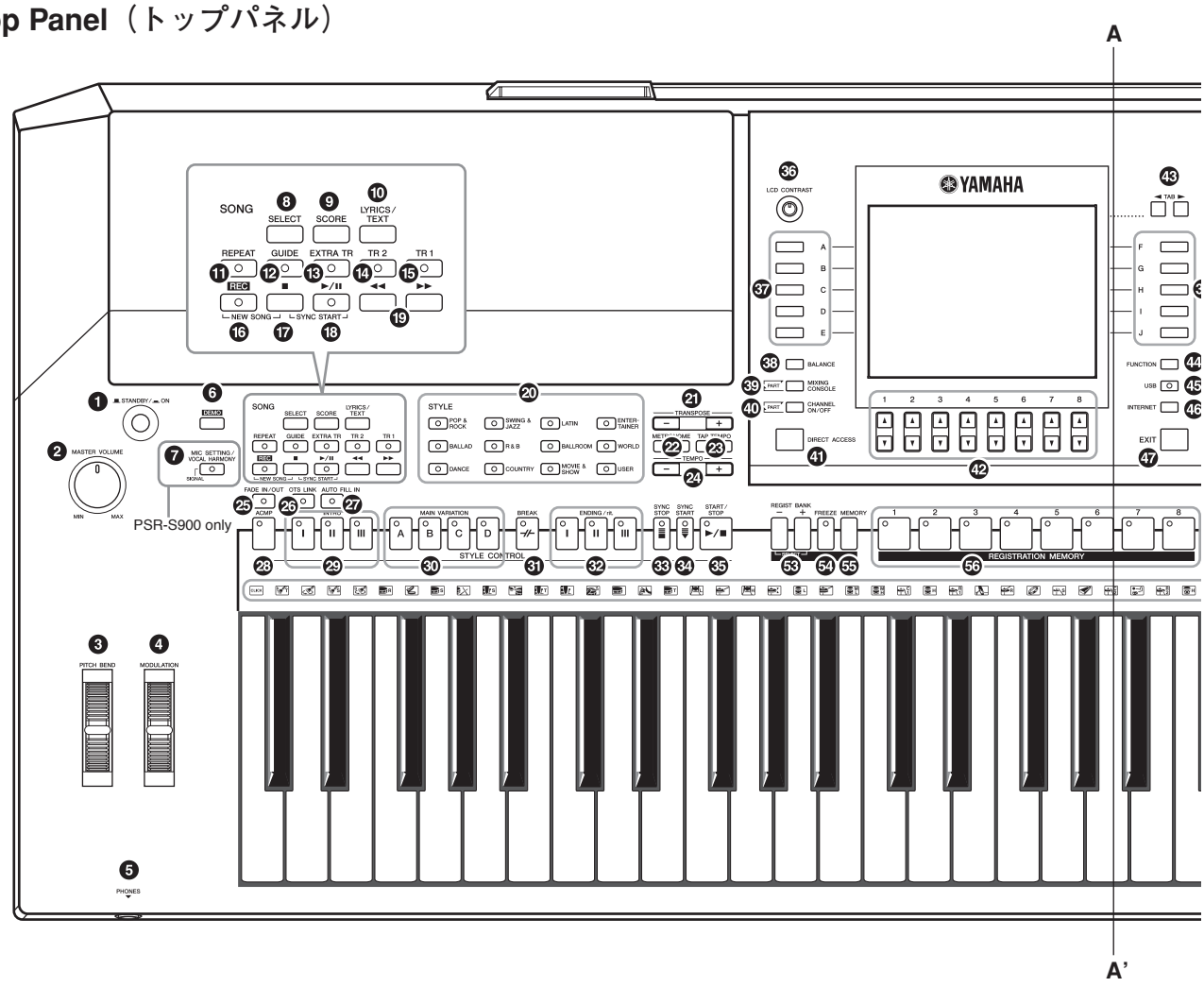


※ This figure shows the PSR-S900.（※この図は、PSR-S900 です。）

❶ [DC IN 16V] terminal
❷ [OUTPUT L/L+R, R] jacks
❸ [AUX IN L/L+R, R] jacks
❹ [VIDEO OUT] terminal (PSR-S900)
❺ [MIC/LINE IN] Jack (PSR-S900)
❻ [INPUT VOLUME] knob (PSR-S900)
❼ [LINE MIC] switch (PSR-S900)
❽ [FOOT PEDAL 1, 2] jacks
❾ [MIDI IN, OUT] terminals
❿ [USB TO HOST] terminal
⓫ [USB TO DEVICE] terminal
⓬ [LAN] Port

❶［DC IN 16V］端子（電源アダプター接続）
❷［OUTPUT L/L+R, R］端子
❸［AUX IN L/L+R, R］端子
❹［VIDEO OUT］端子（PSR-S900）
❺［MIC/LINE IN］端子（PSR-S900）
❻［INPUT VOLUME］ツマミ（PSR-S900）
❼［LINE MIC］切り替えスイッチ（PSR-S900）
❽［FOOT PEDAL 1, 2］端子
❾［MIDI IN, OUT］端子
❿［USB TO HOST］端子
⓫［USB TO DEVICE］端子
⓬［LAN］端子

• Top Panel（トップパネル）



STANDBY/ON
❶ [STANDBY/ON] switch

VOLUME
❷ [MASTER VOLUME] dial

WHEEL
❸ [PITCH BEND] wheel
❹ [MODULATION] wheel

PHONES
❺ [PHONES] terminal

DEMO
❻ [DEMO] button

MIC.
❼ [MIC SETTING/VOCAL HARMONY] button (PSR-S900)

SONG
❽ [SELECT] button
❾ [SCORE] button
❿ [LYRICS/TEXT] button (PSR-S900)
[LYRICS] button (PSR-S700)
⓫ [REPEAT] button
⓬ [GUIDE] button

スタンバイ / オン
❶［STANDBY/ON］スイッチ

マスターボリューム
❷［MASTER VOLUME］ダイアル

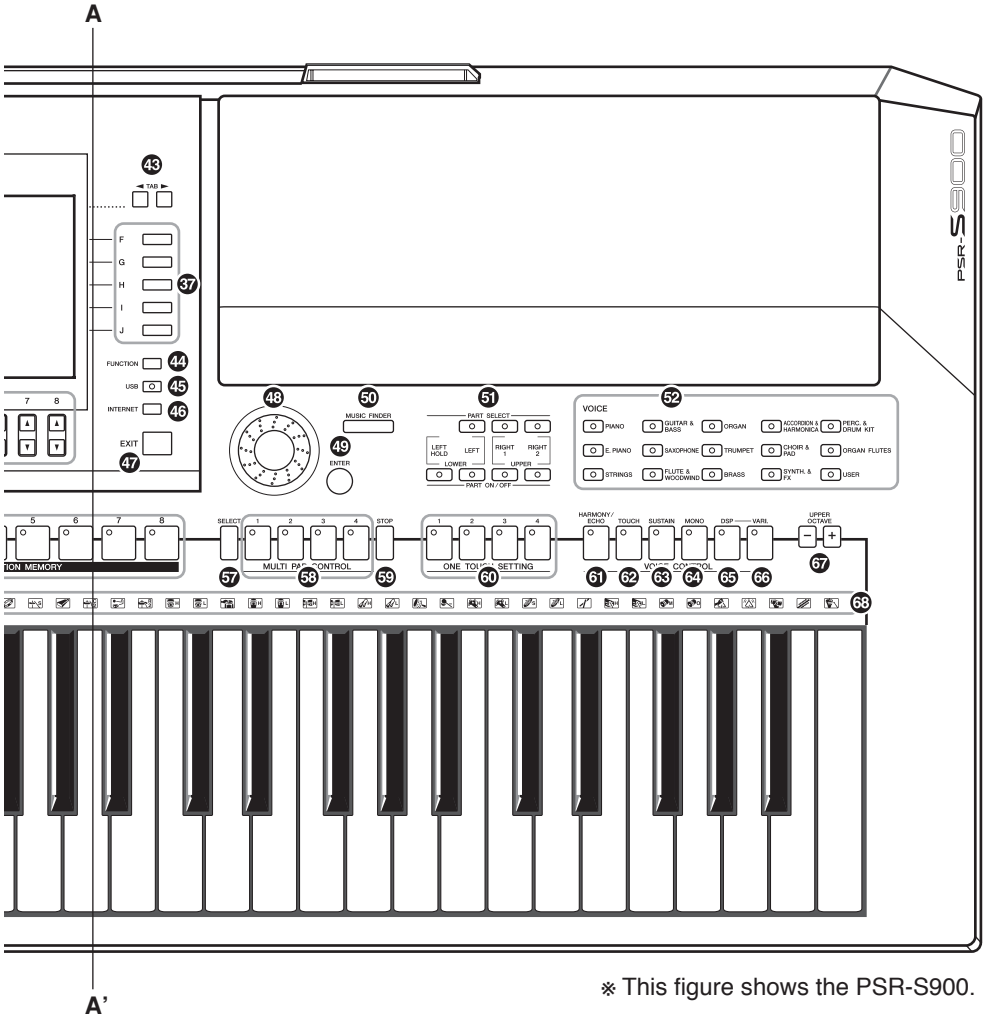
ホイール
❸［PITCH BEND］（ピッチベンド）ホイール
❹［MODULATION］（モジュレーション）ホイール

ヘッドフォン
❺［PHONES］端子

デモ
❻［DEMO］ボタン

マイク
❼［MIC SETTING/VOCAL HARMONY］
（マイクセッティング / ボーカルハーモニー）ボタン
（PSR-S900）

SONG（ソング）
❽［SELECT］（セレクト）ボタン
❾［SCORE］（スコア）ボタン
❿［LYRICS/TEXT］（リリックス / テキスト）ボタン
（PSR-S900）
［LYRICS］（リリックス）ボタン（PSR-S700）
⓫［REPEAT］（リピート＝繰り返し）ボタン
⓬［GUIDE］（ガイド）ボタン



※ This figure shows the PSR-S900.（※この図は、PSR-S900 です。）

⑬ [EXTRA TR] button
⑭ [TR 2] button
⑮ [TR 1] button
⑯ [REC] button
⑰ [■] (STOP) button
⑱ [►/❚❚] (PLAY/PAUSE) button
⑲ [◄◄], [►►] (REW, FF) buttons

STYLE
⑳ STYLE buttons

TRANSPOSE
㉑ [–], [+] buttons

METRONOME
㉒ [METRONOME] button

TAP TEMPO
㉓ [TAP TEMPO] button

TEMPO
㉔ [–], [+] buttons

FADE IN/OUT
㉕ [FADE IN/OUT] button

STYLE CONTROL
㉖ [OTS LINK] button
㉗ [AUTO FILL IN] button
㉘ [ACMP] button

⑬［EXTRA TR］（その他トラック）ボタン
⑭［TR 2］（トラック 2）ボタン
⑮［TR 1］（トラック 1）ボタン
⑯［REC］（録音）ボタン
⑰［■］（ストップ）ボタン
⑱［►/❚❚］（再生 / 一時停止）ボタン
⑲［◄◄］, ［►►］（巻き戻し、早送り）ボタン

STYLE（スタイル）
⑳ STYLE ボタン

TRANSPOSE（トランスポーズ＝移調）
㉑［—］, ［＋］ボタン

メトロノーム
㉒［METRONOME］ボタン

タップテンポ
㉓［TAP TEMPO］ボタン

TEMPO（テンポ）
㉔［—］, ［＋］ボタン

フェードイン / アウト
㉕［FADE IN/OUT］ボタン

STYLE CONTROL（スタイルコントロール）
㉖［OTS LINK］（OTS リンク）ボタン
㉗［AUTO FILL IN］（オートフィルイン）ボタン
㉘［ACMP］（自動伴奏）ボタン

㉙ INTRO [I], [II], [III] buttons
㉚ MAIN VARIATION [A], [B], [C], [D] buttons
㉛ [BREAK] button
㉜ ENDING/rit. [I], [II], [III] buttons
㉝ [SYNC STOP] button
㉞ [SYNC START] button
㉟ [START/STOP] button
㊱ [LCD CONTRAST] knob
㊲ [A] – [J] buttons
㊳ [BALANCE] button
㊴ [MIXING CONSOLE] button
㊵ [CHANNEL ON/OFF] button
㊶ [DIRECT ACCESS] button
㊷ [1▲, ▼] – [8▲, ▼] buttons
㊸ TAB [◄], [►] buttons
㊹ [FUNCTION] button
㊺ [USB] button
㊻ [INTERNET] button
㊼ [EXIT] button
㊽ DATA ENTRY dial
㊾ [ENTER] button

MUSIC FINDER
㊿ [MUSIC FINDER] button

PART
(51) [PART SELECT], [PART ON/OFF] buttons

VOICE
(52) VOICE buttons

REGISTRATION MEMORY
(53) REGIST BANK [–], [+] buttons
(54) [FREEZE] button
(55) [MEMORY] button
(56) [1] – [8] buttons

MULTI PAD CONTROL
(57) [SELECT] button
(58) [1] – [4] buttons
(59) [STOP] button

ONE TOUCH SETTING
(60) [1] – [4] buttons

VOICE CONTROL
(61) [HARMONY/ECHO] button
(62) [TOUCH] button
(63) [SUSTAIN] button
(64) [MONO] button
(65) [DSP] button
(66) [VARI.] button

UPPER OCTAVE
(67) UPPER OCTAVE [–], [+] buttons
(68) Drum Kit icons

㉙ INTRO［Ⅰ］,［Ⅱ］,［Ⅲ］（イントロ［Ⅰ］,［Ⅱ］,［Ⅲ］）ボタン
㉚ MAIN VARIATION［A］,［B］,［C］,［D］（メインバリエーション［A］,［B］,［C］,［D］）ボタン
㉛［BREAK］（ブレイク）ボタン
㉜ ENDING/rit.［Ⅰ］,［Ⅱ］,［Ⅲ］（エンディング /rit.［Ⅰ］,［Ⅱ］,［Ⅲ］）ボタン
㉝［SYNC STOP］（シンクロストップ）ボタン
㉞［SYNC START］（シンクロスタート）ボタン
㉟［START/STOP］（スタート / ストップ）ボタン
㊱［LCD CONTRAST］（LCD コントラスト）つまみ
㊲［A］～［J］ボタン
㊳［BALANCE］（バランス）ボタン
㊴［MIXING CONSOLE］（ミキシングコンソール）ボタン
㊵［CHANNEL ON/OFF］（チャンネルオン / オフ）ボタン
㊶［DIRECT ACCESS］（ダイレクトアクセス）ボタン
㊷［1▲, ▼］～［8▲, ▼］ボタン
㊸ TAB［◄］,［►］（タブ切替［◄］,［►］）ボタン
㊹［FUNCTION］（ファンクション）ボタン
㊺［USB］ボタン
㊻［INTERNET］（インターネット）ボタン
㊼［EXIT］（エグジット）ボタン
㊽ DATA ENTRY（データエントリー）ダイアル
㊾［ENTER］（エンター）ボタン

ミュージックファインダー
㊿［MUSIC FINDER］ボタン

鍵盤パート
(51) 鍵盤パートボタン

VOICE（ボイス）
(52) VOICE ボタン

REGISTRATION MEMORY（レジストレーションメモリー）
(53) REGIST BANK［—］,［＋］（レジストバンク［—］,［＋］）ボタン
(54)［FREEZE］（フリーズ）ボタン
(55)［MEMORY］（メモリー）ボタン
(56)［1］～［8］ボタン

MULTI PAD CONTROL（マルチパッドコントロール）
(57)［SELECT］（セレクト）ボタン
(58)［1］～［4］ボタン
(59)［STOP］（ストップ）ボタン

ONE TOUCH SETTING（ワンタッチセッティング）
(60)［1］～［4］ボタン

VOICE CONTROL（ボイスコントロール）
(61)［HARMONY/ECHO］（ハーモニー / エコー）ボタン
(62)［TOUCH］（イニシャルタッチ）ボタン
(63)［SUSTAIN］（サステイン）ボタン
(64)［MONO］（モノ）ボタン
(65)［DSP］（ディーエスピー）ボタン
(66)［VARI.］（ディーエスピーバリエーション）ボタン

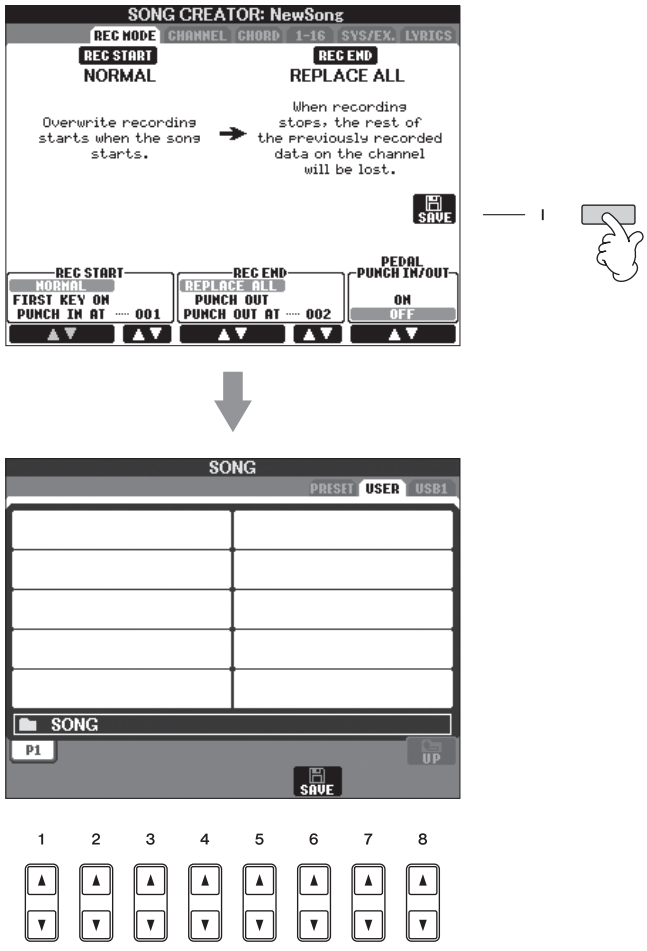
UPPER OCTAVE（アッパーオクターブ）
(67) UPPER OCTAVE［—］,［＋］ボタン
(68) ドラムキットアイコン

SAVING FILES

This operation lets you save your original data (such as Songs and Voices you've created) to a file.

1 After you've created a Song or Voice in the relevant SONG CREATOR or VOICE SET display, press the [SAVE] display button.

The File Selection display for the corresponding data appears. Keep in mind that the Save operation is executed from the File Selection display.



2 Select the appropriate tab (USER, USB, etc.) to which you want to save the data by using the TAB [◄] [►] buttons.

3 Press the [6▼] (SAVE) button to call up the file naming display.

4 Enter the file name.

5 Press the [8▲] (OK) button to save the file.

If you want to cancel the Save operation, press the [8▼] (CANCEL) button.

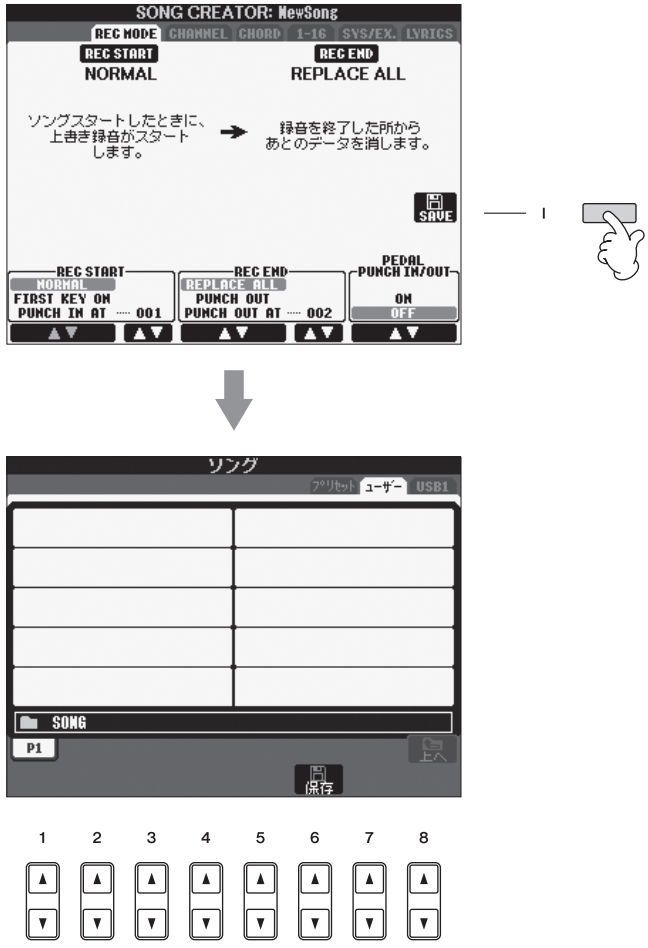
The saved file will be automatically located at the appropriate position among the files in alphabetical order.

■ データの保存

データ（録音したソング、編集したボイスなど）をファイルとして保存します。

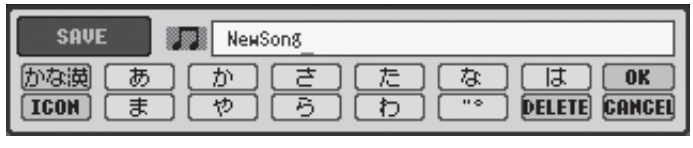
1 **ソングクリエーターやボイス編集など、データ制作の画面にある [SAVE]（セーブ = 保存）ボタンを押します。**

該当するデータの選択画面が表示されます。保存は、選択画面で行ないます。



2 **TAB [◀] [▶] ボタンを押して、データを保存したい場所（ユーザー /USB など）を選びます。**

3 **[6▼]（保存）ボタンを押して、ファイル名を付ける画面を表示させます。**



4 **ファイル名を入力します。**

5 **[8▲]（OK）ボタンを押して、ファイルを保存します。**

保存を中止するときは、[8▼]（CANCEL）ボタンを押します。保存されたファイルは、アルファベット /50 音順に並べ替えられて表示されます。

RESTORING THE FACTORY-PROGRAMMED SETTINGS

The operation of restoring the factory-programmed settings does not affect the Internet Settings. To reset the Internet Settings, refer to page 92.

Restoring the Factory-programmed System

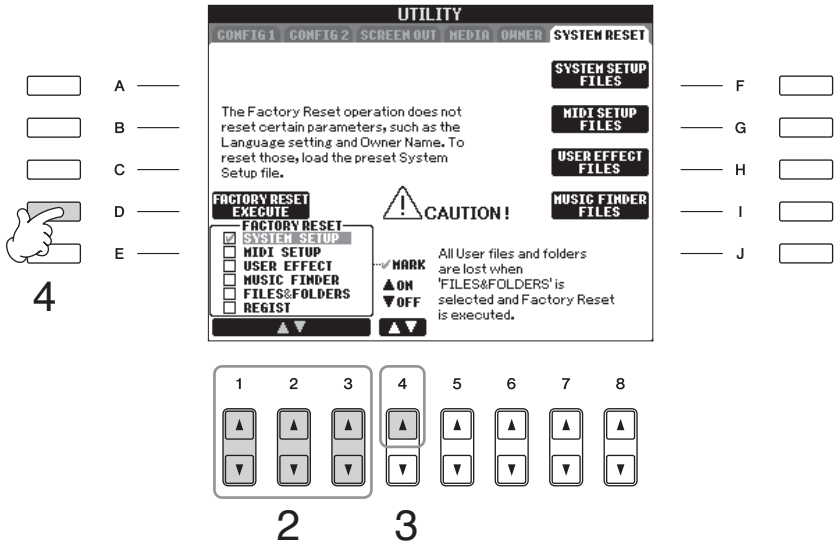
While holding the C6 key (right-most key on the keyboard), turn the [POWER] button ON.
This operation has the same result as and is a shortcut for the System Setup restore operation explained in step 2 of the following section.

Restoring the Factory-programmed Settings Independently by Item

1 Call up the operation display.
[FUNCTION] → [J] UTILITY → TAB [◀][▶] SYSTEM RESET

2 Select items by pressing the [1▲▼] – [3▲▼] buttons.

SYSTEM SETUP	Restores the System Setup parameters to the original factory settings. Refer to the Data List for details about which parameters belong to the System Setup. Refer to the Data List for details on which parameters belong to the System Setup. **http://www.yamaha.co.jp/manual/**
MIDI SETUP	Restores the MIDI settings including the MIDI templates on the User tab display to the original factory status.
USER EFFECT	Restores the User Effect settings including the user effect types, user master EQ types, and user vocal harmony types (PSR-S900) created via the Mixing Console display to the original factory settings.
MUSIC FINDER	Restores the Music Finder data (all records) to the original factory settings.
FILES&FOLDERS	Deletes all files and folders stored in the User tab display.
REGIST	Temporarily deletes the current Registration Memory settings of the selected Bank. The same can be done also by turning the [POWER] button ON while holding the B5 key (right-most B key on the keyboard).



⚠ This operation deletes all your original data for the respective item (MIDI SETUP, USER EFFECT, MUSIC FINDER, and FILES & FOLDERS).

3 Checkmark the box of the item to be reset to the factory programmed settings by pressing the [4▲] button.

4 Press the [D] button to execute the Factory Reset operation for all checkmarked items.

Saving and Recalling Your Original Settings as a Single File

For the items below, you can save your Original Settings as a Single File for future recall.

1 Make all desired settings on the instrument.

2 Call up the operation display.
[FUNCTION] → [J] UTILITY → TAB [◄][►] SYSTEM RESET

3 Press one of the [F] – [I] buttons to call up the relevant display for saving your data.

SYSTEM SETUP	Parameters set on the various displays such as the [FUNCTION] → UTILITY and microphone setting display are handled as a single System Setup file. Refer to the Data List for details on which parameters belong to the System Setup. **http://www.yamaha.co.jp/manual/**
MIDI SETUP	The MIDI settings including the MIDI templates on the User tab display are handled as a single file.
USER EFFECT	The User Effect settings including the user effect types, user master EQ types, and user vocal harmony types (PSR-S900) created via the Mixing Console displays are managed as a single file.
MUSIC FINDER	All the preset and created records of the Music Finder are handled as a single file.

4 Select one of the tabs (other than the PRESET) by pressing the TAB [◄] [►] buttons.

Note that the file in the PRESET tab display is the file of factory-programmed settings. If you select it, the factory-programmed settings for the respective item will be restored. (This is the same results as on page 84 "Restoring the Factory-programmed Settings Independently by Item.")

5 Save your file (page 82).

6 To recall your file, select the tab and page to which you've saved the file (same tab and page as specified in step 4), and press the corresponding [A] – [J] button.

■ 内部の設定を工場出荷時の状態に戻す

内部の設定を工場出荷時の状態に戻しても、インターネット機能の環境設定は工場出荷時の状態に戻りません。インターネット機能の環境設定を工場出荷時の状態に戻すには、92 ページを参照してください。

システムを工場出荷時の状態に戻す

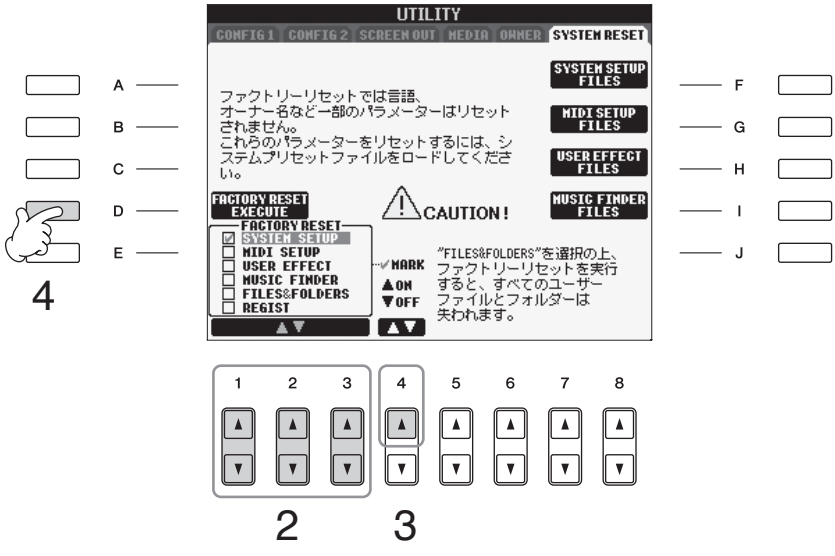
いちばん右の鍵盤（C6）を押しながら電源をオンにします。
下記「設定別に工場出荷時の状態に戻す」の手順 2 で「SYSTEM SETUP（システムセットアップ）」を選んで工場出荷時の状態に戻すのと同じです。

設定別に工場出荷時の状態に戻す

1 **設定画面を表示させます：**
[FUNCTION] → [J] UTILITY → TAB [◄][►] SYSTEM RESET

2 **[1 ▲▼] ～ [3 ▲▼] ボタンを押して、工場出荷時の状態に戻したい項目を選びます。**

SYSTEM SETUP （システムセットアップ）	システムセットアップとして扱う設定項目を工場出荷時の状態に戻します。どの設定項目がシステムセットアップに該当するかの詳細は、データリスト（ウェブ配布）を参照してください。 http://www.yamaha.co.jp/manual/japan/
MIDI SETUP （MIDI セットアップ）	「ユーザー」画面に保存した MIDI テンプレートファイル群を含む、さまざまな MIDI 設定を、工場出荷時の状態に戻します。
USER EFFECT （ユーザーエフェクト）	ミキシングコンソール機能で制作可能な、ユーザーエフェクトタイプ、ユーザーマスター EQ タイプや、ユーザーボーカルハーモニータイプ（PSR-S900）を、まとめて工場出荷時の状態に戻します。
MUSIC FINDER （ミュージックファインダー）	ミュージックファインダー機能のレコードを、工場出荷時の状態に戻します。
FILES&FOLDERS （ファイル & フォルダー）	「ユーザー」画面にあるすべてのファイル / フォルダーを消去することで、工場出荷時の状態に戻します。
REGIST （レジスト）	選ばれているレジストレーションメモリーバンクのパネル設定を消去します。バンクを消去するわけではないので、バンクを選び直せば消去したパネル設定を元に戻すことができます。右から 2 番目の鍵盤（B5）を押しながら電源オンにしても実行できます。



⚠ MIDI セットアップ、ユーザーエフェクト、ミュージックファインダー、ファイル＆フォルダーでは、編集によって作り上げたデータはすべて消去されますのでご注意ください。

3 **[4▲] ボタンを押して、チェックマークを入れます。**

4 **[D] ボタンを押して、選んだ項目を工場出荷時の状態に戻します。**

設定をひとつのファイルとして保存 / 呼び出しする

下記の項目については、「ユーザー」/「USB」の画面に、設定をひとつのファイルとして保存できます。必要に応じて、保存した設定を呼び出せます。

1 **楽器の設定を、保存したい状態にします。**

2 **設定画面を表示させます：**
[FUNCTION] → [J] UTILITY → TAB [◀][▶] SYSTEM RESET

3 **[F] ～ [I] ボタンを押して、設定を保存する画面を表示させます。**

SYSTEM SETUP （システムセットアップ）	[FUNCTION] → UTILITY 画面やマイク設定画面など、さまざまな画面での設定を 1 つのシステムセットアップファイルとして扱います。どの設定項目がシステムセットアップに該当するかの詳細は、データリスト（ウェブ配布）を参照してください。 **http://www.yamaha.co.jp/manual/japan/**
MIDI SETUP （MIDI セットアップ）	「ユーザー」画面上に保存した MIDI テンプレートファイル群を含む、さまざまな MIDI 設定を、1 つの MIDI セットアップファイルとして扱います。
USER EFFECT （ユーザーエフェクト）	ミキサー機能で制作可能な、ユーザーエフェクトタイプ、ユーザーマスター EQ タイプや、ユーザーボーカルハーモニータイプ (PSR-S900) をまとめて 1 つのユーザーエフェクトファイルとして扱います。
MUSIC FINDER （ミュージックファインダー）	ミュージックファインダー機能の内蔵レコード、およびあなたが制作したレコードすべてを、まとめて 1 つのミュージックファインダーファイルとして扱います。

4 **TAB [◀] [▶] ボタンを押して、「プリセット」以外のタブを選びます。**
「プリセット」画面にあるファイルは、工場出荷時の設定です。「プリセット」画面にあるファイルを選ぶと、それぞれの項目を工場出荷時の状態に戻せます。
（86 ページ「設定別に工場出荷時の状態に戻す」と同様。）

5 設定を保存します（83 ページ）。

6 設定を呼び出すときは、手順 4 の画面で [A] ～ [J] ボタンを押して、ファイルを選びます。

DATA BACKUP

For maximum data security, copy or save your important data to a USB storage device. This provides a convenient backup if the internal memory is damaged.

Data that can be saved

1. Song*, Style, Multi Pad, Registration Memory Bank and Voice
2. Music Finder Record, Effect**, MIDI Template and System File
3. All data listed in 1 and 2 above

* Protected Songs (those with a "Prot.1/Prot.2" indication at the upper left of the file name) cannot be saved. However, Songs with a "Prot.2" indication can be moved (cut-and-paste operation) to a USB flash memory.

** Effect data includes the following:
- Edited or saved data in the Mixing Console "EFFECT/EQ."
- Edited or saved data of the Vocal Harmony type (PSR-S900 only).

The backup procedure is different for the data types in 1, 2, and 3 above.

Backup procedure

1. Song, Style, Multi Pad, Registration Memory Bank and Voice Data

1 Insert/connect the backup USB storage device (destination).

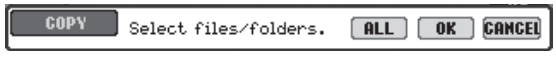
2 Call up the display containing the desired file to be copied.

Song: Press the SONG [SELECT] button.
Style: Press one of the STYLE buttons.
Multi Pad: Press the MULTI PAD CONTROL [SELECT] button.
Registration Memory Bank: Press the REGIST BANK [+] and [–] buttons simultaneously.
Voice: Press one of the VOICE buttons.

3 Select the USER tab by using the TAB [◄] [►] buttons.

4 Press the [3▼] (COPY) button to copy the file/folder.

The pop-up window for the Copy operation appears at the bottom of the display.



5 Press the [6▼] (ALL) button to select all files/folders indicated on the current display and all other pages.

To cancel the selection, press the [6▼] (ALL OFF) button again.

6 Press the [7▼] (OK) button to confirm the file/folder selection.

To cancel the Copy operation, press the [8▼] (CANCEL) button.

7 Select the destination USB tab to which the file/folder is to be copied, by using the TAB [◄] [►] buttons.

8 Press the [4▼] (PASTE) button to paste the file/folder.

If a message appears indicating data cannot be copied

Protected Songs (“Prot. 1/Prot.2” is indicated at the upper left side of the file names) are included in the copied files. These protected Songs cannot be copied. However, Songs with a “Prot.2” indication can be moved (cut-and-paste operation) to a USB flash memory.

2. Music Finder Record, Effect, MIDI Template and System Data

1 Insert/connect the backup USB storage device (destination).

2 Call up the operation display.
[FUNCTION] → [J] UTILITY → TAB [◄][►] SYSTEM RESET

3 Press one of the [F]-[I] buttons to call up the relevant display for saving your data.

4 Select the appropriate USB tab to which you want to save the data by using the TAB [◄] [►] buttons.

5 Save your data (page 82).

3. All data listed in 1 and 2

1 Insert/connect the backup USB storage device (destination).

2 Call up the operation display.
[FUNCTION] → [J] UTILITY → TAB [◄][►] OWNER

3 Press the [D] (BACKUP) button to save the data to the USB storage device.
To restore the data, press the [E] (RESTORE) button in step 3 above.

- **It takes a few minutes to complete the backup/restore operation.**
- **Backup data which has not been created on the PSR-S900/S700 cannot be restored.**

⚠ Move the Protected Songs which are saved to the USER display before restoring. If the songs are not moved, the operation deletes the data.

■ データのバックアップ

本体に保存したデータの万一の事故に備えて、大切なデータは USB 記憶装置にバックアップとして保存することをおすすめします。

バックアップ対象のデータ

1. ソング *、スタイル、マルチパッド、レジストレーションメモリーバンク、ボイス
2. ミュージックファインダーのレコード、エフェクト **、MIDI テンプレート、システムファイル
3. 1 と 2 のデータ

* プロテクトがかかったソング（ソング名左上に「Prot. 1/Prot.2」と表示されるソング）は、バックアップができません。ただし、ソング名左上に「Prot. 2」と表示されるソングは、USB フラッシュメモリーに移動（切りとり→貼り付け）できます。

** エフェクトに含まれるのは、下記のデータです。
- ミキサーの「EFFECT/EQ」画面で編集、保存したデータ
- ボーカルハーモニータイプを編集、保存したデータ（PSR-S900）

上記 1、2、および 3 では、バックアップの操作方法が異なります。

バックアップの操作

1. ソング、スタイル、マルチパッド、レジストレーションメモリーバンク、ボイスの場合

1 **バックアップ先の USB 記憶装置を、本体に挿入 / 接続します。**

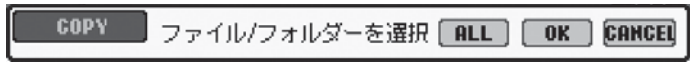
2 **バックアップをとるファイルがある画面を開きます。**

ソングの場合 : SONG [SELECT] ボタンを押します。
スタイルの場合 : STYLE ボタンのひとつを押します。
マルチパッドの場合 : MULTI PAD CONTROL [SELECT] ボタンを押します。
レジストレーションメモリーバンクの場合 : REGIST BANK [－]/[＋] ボタンを同時に押します。
ボイスの場合 : VOICE ボタンのひとつを押します。

3 **TAB [◀] [▶] ボタンを押して、「ユーザー」タブを選びます。**

4 **[3▼]（コピー）ボタンを押して、ファイル / フォルダーをコピーします。**

画面下部に、コピーに関する画面が表示されます。



5 **[6▼]（ALL）ボタンを押して、画面に表示されているすべてのファイル / フォルダー（画面に現れていない別ページも含む）を選びます。**

ファイル / フォルダーの選択を解除するときは、もう一度 [6▼]（ALL OFF）ボタンを押します。

6 **[7▼]（OK）ボタンを押して、ファイル / フォルダーの選択を確定します。**

コピーを中止するときは、[8▼]（CANCEL）ボタンを押します。

7 **TAB [◀] [▶] ボタンを押して、「USB」タブを選びます。**

8 **[4 ▼]（貼り付け）ボタンを押して、コピーしたファイル / フォルダーを貼り付けます。**

貼り付けできないというメッセージが表示されたら
コピーしたファイルの中に、プロテクトがかかったソング（ソング名左上に「Prot. 1/Prot. 2」と表示）が含まれています。プロテクトがかかったソングはコピーができません。ただし、「Prot. 2」と表示されるソングは、USB フラッシュメモリーに移動（切りとり→貼り付け）できます。

2. ミュージックファインダーのレコード、エフェクト、MIDI テンプレート、システムファイルの場合

1 **バックアップ先の USB 記憶装置を、本体に挿入 / 接続します。**

2 **設定画面を表示させます：**
[FUNCTION] → [J] UTILITY → TAB [◄][►] SYSTEM RESET

3 **[F] ～ [I] ボタンを押して、設定を保存する画面を表示させます。**

4 **TAB [◄] [►] ボタンを押して、「USB」タブを選びます。**

5 **バックアップ先の USB 記憶装置に、設定を保存します（83 ページ）。**

3. 1 と 2 のデータの場合

1 **バックアップ先の USB 記憶装置を、本体に挿入 / 接続します。**

2 **設定画面を表示させます：**
[FUNCTION] → [J] UTILITY → TAB[◄][►] OWNER

3 **[D]（BACKUP）ボタンを押して、バックアップ先の USB 記憶装置に保存します。**
バックアップしたデータのリストア（復帰）は、手順 3 で [E]（RESTORE）ボタンを押して行なってください。

- **バックアップ / リストアは、完了するのに数分かかります。**
- **PSR-S900/S700 以外で作成したバックアップデータはリストアできません。**

⚠ 「ユーザー」画面に保存したプロテクトソングは、リストアの前に移動させてください。移動させないとリストアしたときに失われます。

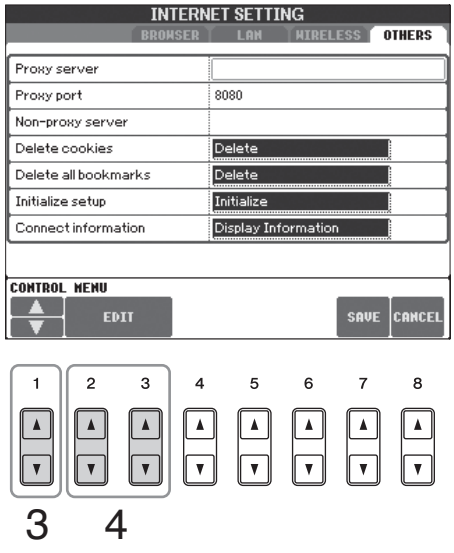
■ INITIALIZING INTERNET SETTINGS（インターネット設定の初期化）

The settings of the Internet function are not initialized when using the Initialize operation of the instrument; Internet settings must be initialized separately, as explained here. Initializing will reset to the default values not only the settings of the browser, but also all settings you have made in the Internet Settings displays (except for the cookies and bookmarks), including those related to Internet connection.

1 Press the [5▼] (SETTING) button to call up the Internet Settings display.

2 Press the TAB [◄] [►] buttons to select the OTHERS tab.

3 Press the [1 ▲▼] (▲/▼) button to select "Initialize."



4 Use the [2 ▲▼]/[3 ▲▼] (EDIT) buttons to initialize the Internet settings.

Delete cookies/bookmarks
Cookies and bookmarks are still remain after executing the initialize operation above.
To delete the cookies or bookmarks, use the appropriate operations in the OTHERS tab display

インターネット機能の設定は、「工場出荷時の状態に戻す」（86 ページ）では初期化されません。ここで説明する方法で初期化する必要があります。初期化すると、ブラウザーの設定だけでなくインターネット接続に関する設定まで、環境設定画面で行なった設定が工場出荷時の状態に戻ります（クッキーとブックマークの設定以外）。

1 **[5▼]（環境設定）ボタンを押して、環境設定画面を表示させます。**

2 **TAB [◄] [►] ボタンを押して、「その他」タブを選びます。**

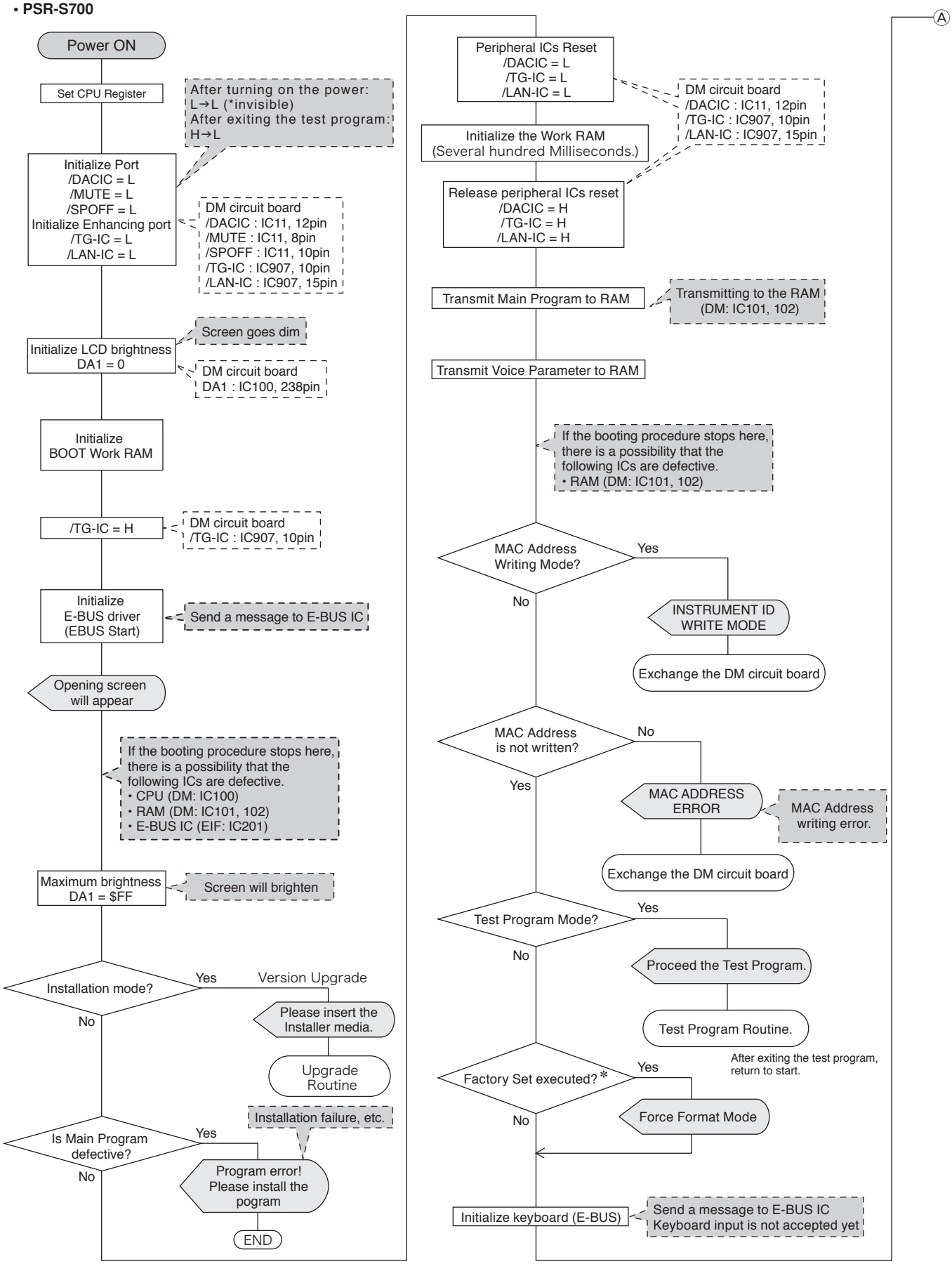
3 **[1 ▲▼]（▲/▼）ボタンを押して、「初期状態に戻す」を選びます。**

4 **[2 ▲▼]/[3 ▲▼]（設定値変更）ボタンを押して、インターネット設定を初期化します。**

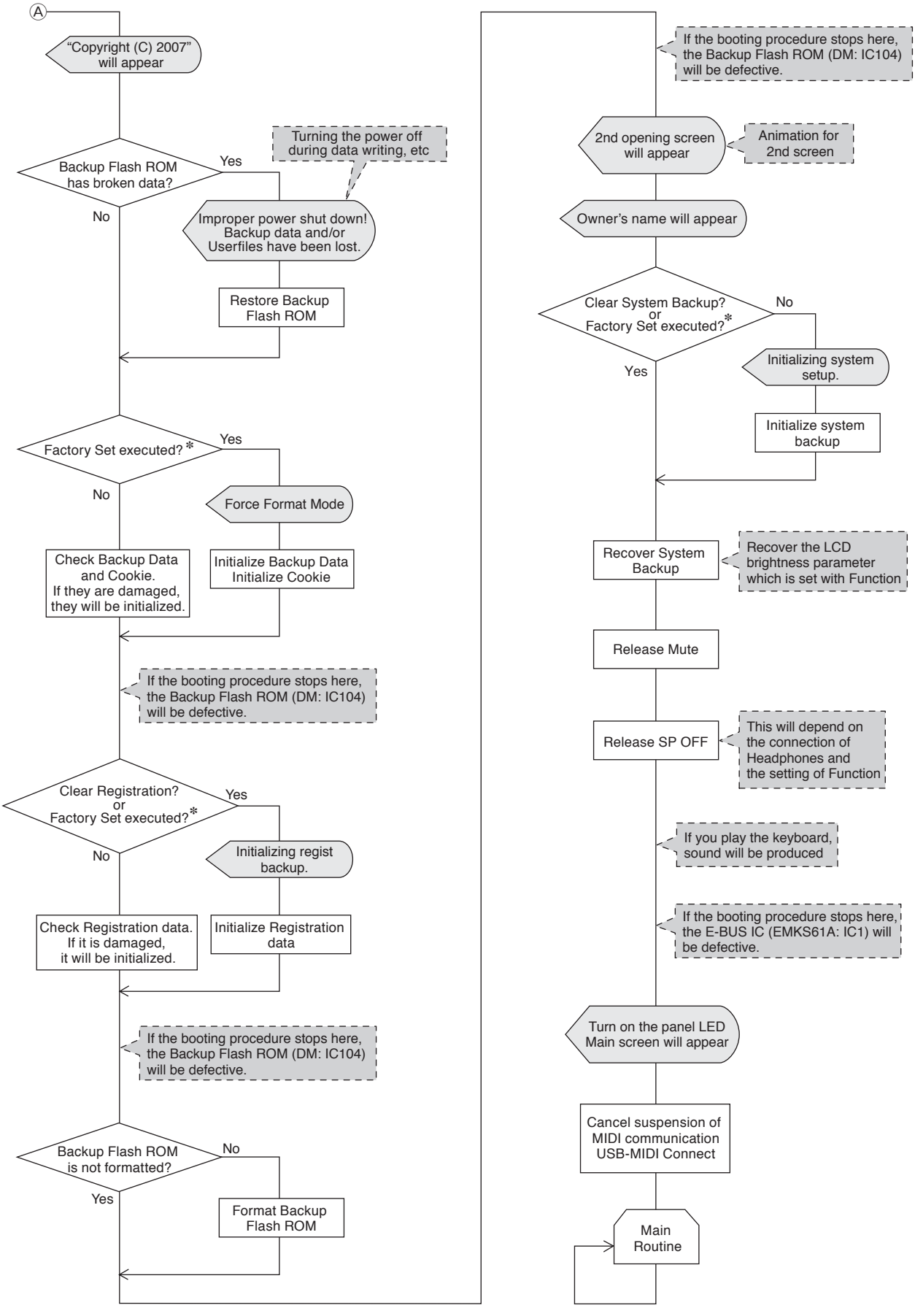
クッキー / ブックマークを削除する
インターネット設定を初期化しても、クッキーとブックマークは削除されません。
クッキーとブックマークは、「その他」画面で削除してください。

SYSTEM BOOTING FLOWCHART

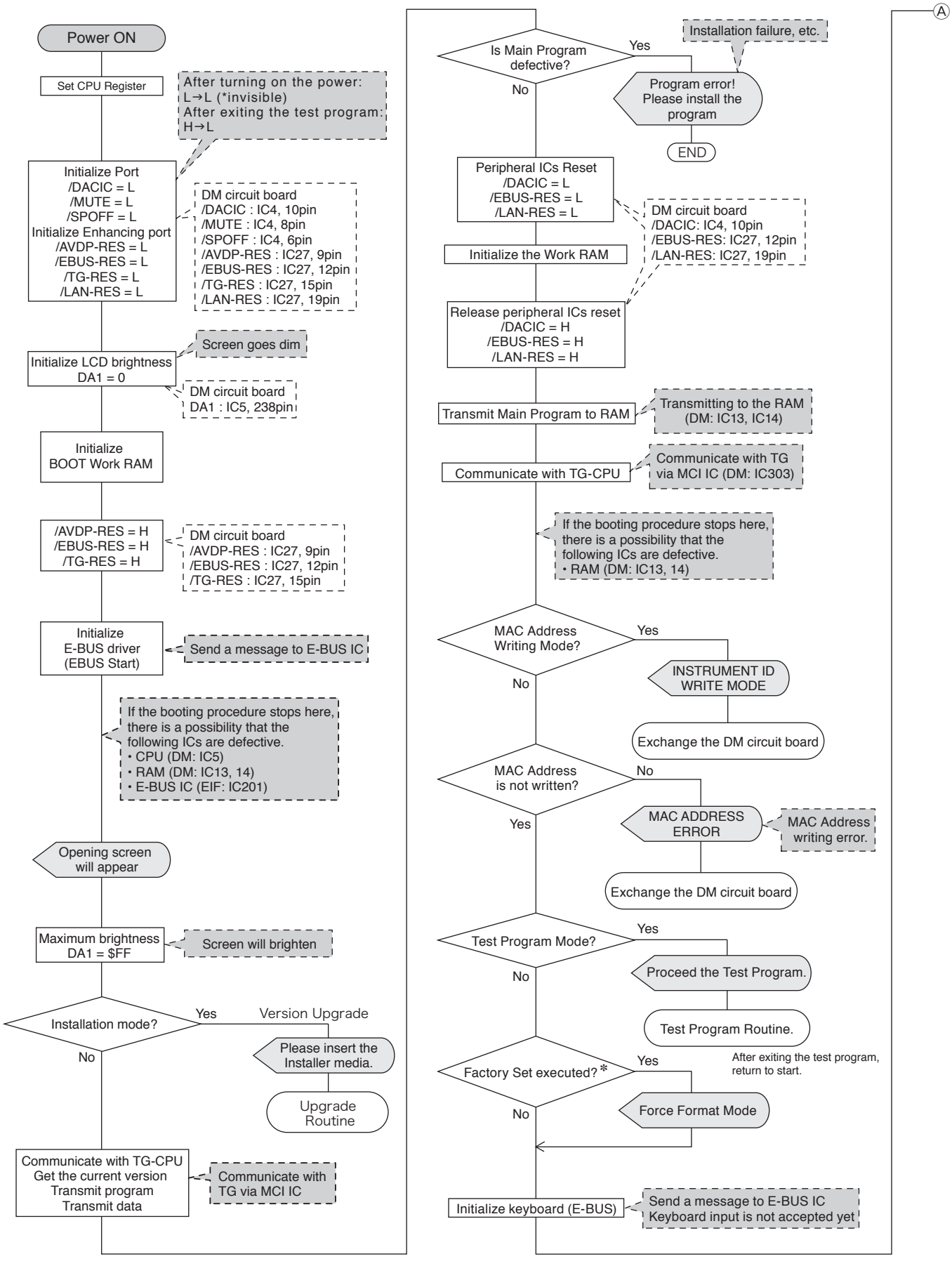
• **PSR-S700**



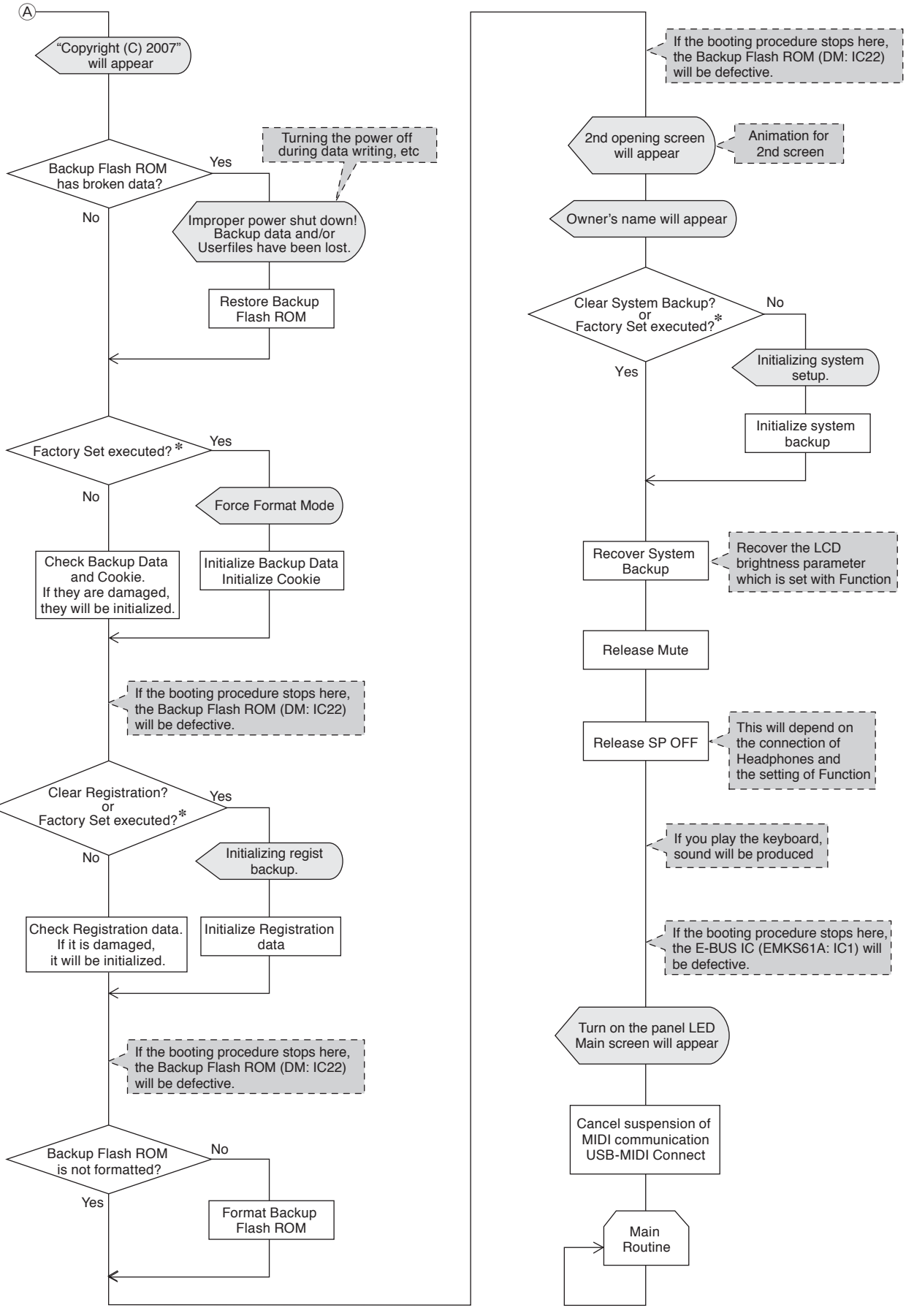
✻ "Factory Set" refers to the condition of turning on the power after executing "Factory Set" in the Test Program.


Ⓐ
"Copyright (C) 2007" will appear
Backup Flash ROM has broken data?
Yes
No
Turning the power off during data writing, etc
Improper power shut down! Backup data and/or Userfiles have been lost.
Restore Backup Flash ROM
Factory Set executed? *
Yes
No
Force Format Mode
Check Backup Data and Cookie. If they are damaged, they will be initialized.
Initialize Backup Data Initialize Cookie
If the booting procedure stops here, the Backup Flash ROM (DM: IC104) will be defective.
Clear Registration? or Factory Set executed? *
Yes
No
Initializing regist backup.
Check Registration data. If it is damaged, it will be initialized.
Initialize Registration data
If the booting procedure stops here, the Backup Flash ROM (DM: IC104) will be defective.
Backup Flash ROM is not formatted?
No
Yes
Format Backup Flash ROM
If the booting procedure stops here, the Backup Flash ROM (DM: IC104) will be defective.
2nd opening screen will appear
Animation for 2nd screen
Owner's name will appear
Clear System Backup? or Factory Set executed? *
No
Yes
Initializing system setup.
Initialize system backup
Recover System Backup
Recover the LCD brightness parameter which is set with Function
Release Mute
Release SP OFF
This will depend on the connection of Headphones and the setting of Function
If you play the keyboard, sound will be produced
If the booting procedure stops here, the E-BUS IC (EMKS61A: IC1) will be defective.
Turn on the panel LED Main screen will appear
Cancel suspension of MIDI communication USB-MIDI Connect
Main Routine

• **PSR-S900**

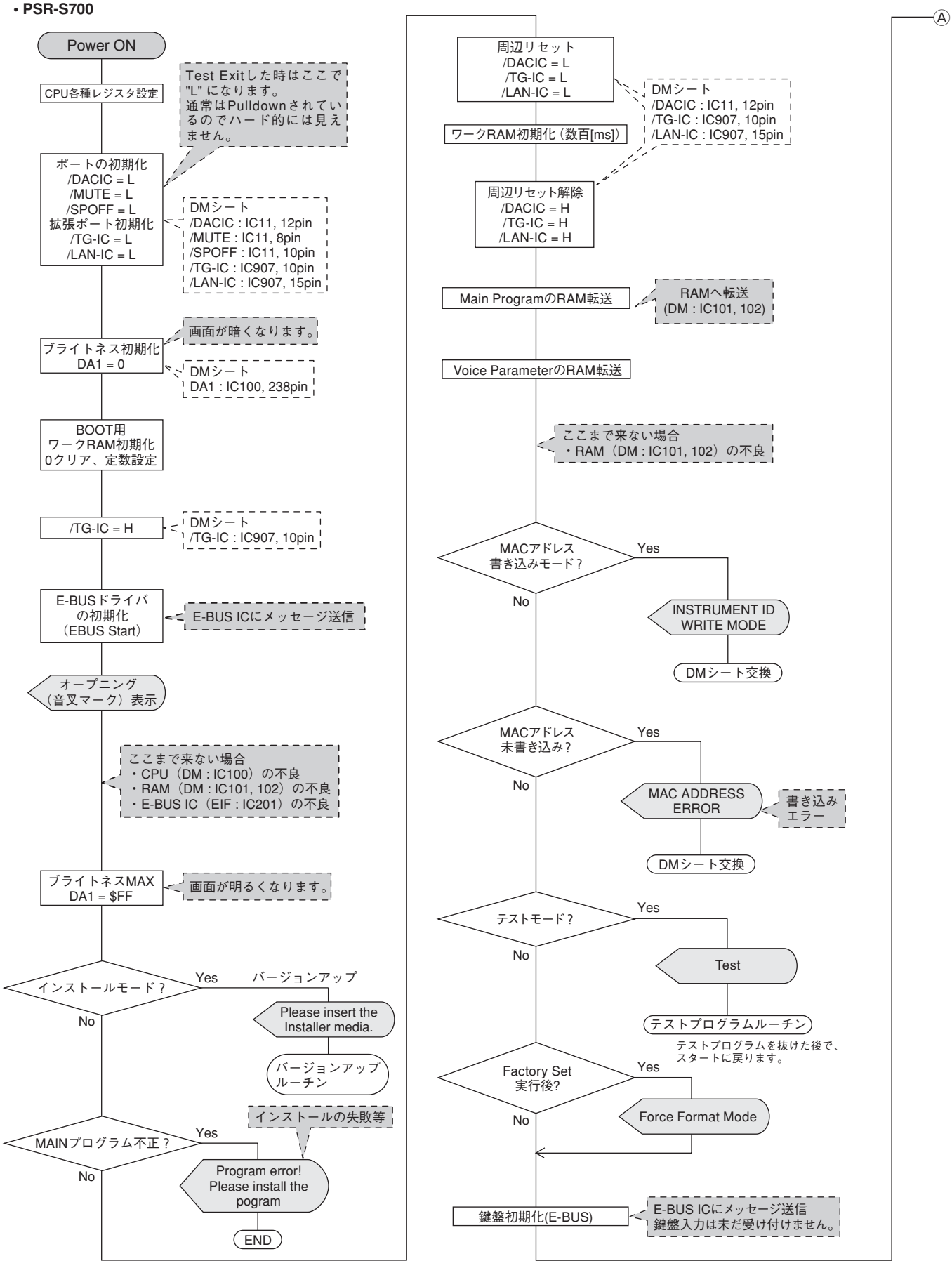


✻ "Factory Set" refers to the condition of turning on the power after executing "Factory Set" in the Test Program.

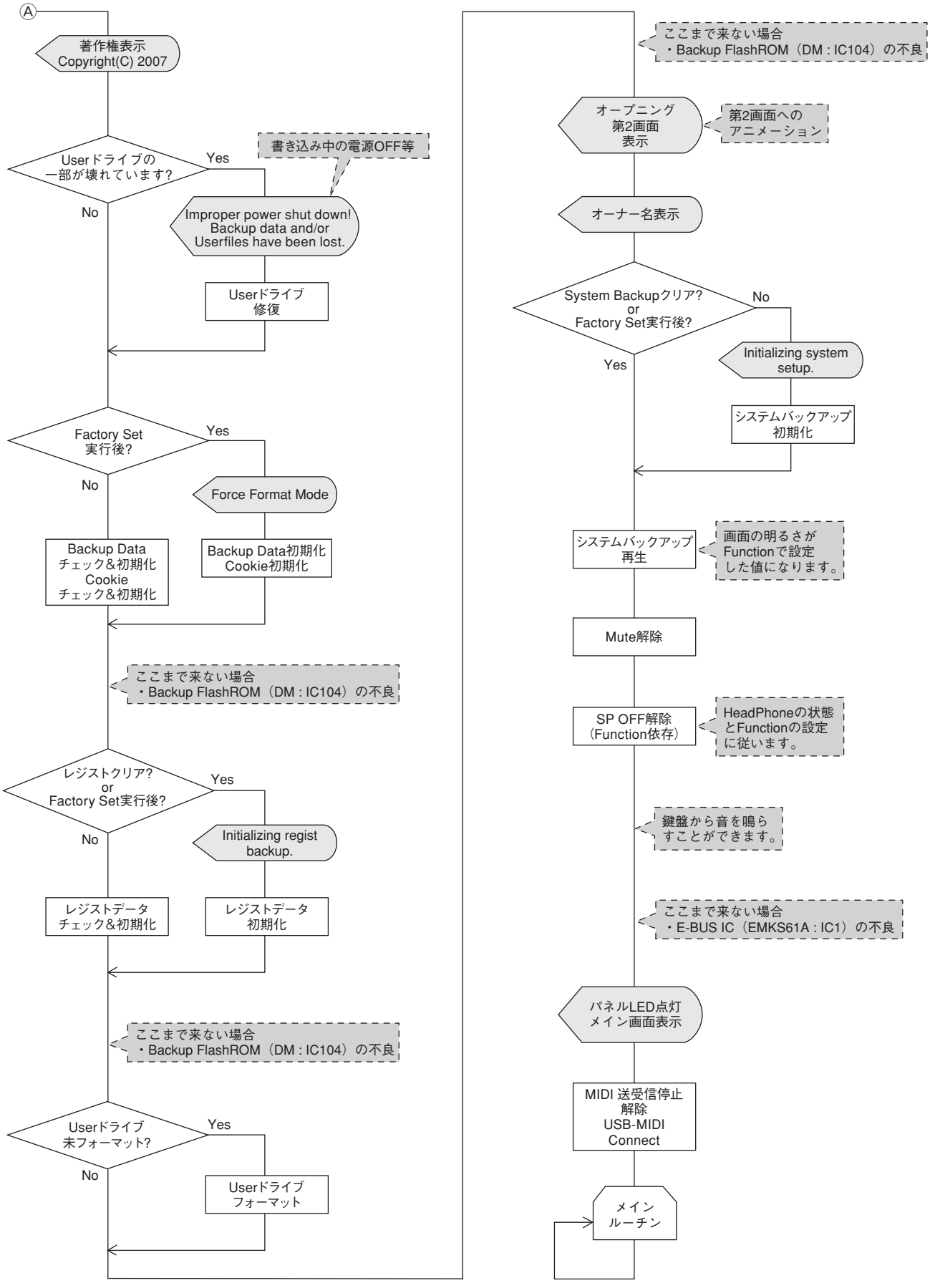

Ⓐ
"Copyright (C) 2007" will appear
Backup Flash ROM has broken data?
Yes
No
Turning the power off during data writing, etc
Improper power shut down! Backup data and/or Userfiles have been lost.
Restore Backup Flash ROM
Factory Set executed? *
Yes
No
Force Format Mode
Check Backup Data and Cookie. If they are damaged, they will be initialized.
Initialize Backup Data Initialize Cookie
If the booting procedure stops here, the Backup Flash ROM (DM: IC22) will be defective.
Clear Registration? or Factory Set executed? *
Yes
No
Initializing regist backup.
Check Registration data. If it is damaged, it will be initialized.
Initialize Registration data
If the booting procedure stops here, the Backup Flash ROM (DM: IC22) will be defective.
Backup Flash ROM is not formatted?
No
Yes
Format Backup Flash ROM
If the booting procedure stops here, the Backup Flash ROM (DM: IC22) will be defective.
2nd opening screen will appear
Animation for 2nd screen
Owner's name will appear
Clear System Backup? or Factory Set executed? *
No
Yes
Initializing system setup.
Initialize system backup
Recover System Backup
Recover the LCD brightness parameter which is set with Function
Release Mute
Release SP OFF
This will depend on the connection of Headphones and the setting of Function
If you play the keyboard, sound will be produced
If the booting procedure stops here, the E-BUS IC (EMKS61A: IC1) will be defective.
Turn on the panel LED Main screen will appear
Cancel suspension of MIDI communication USB-MIDI Connect
Main Routine

■起動フローチャート

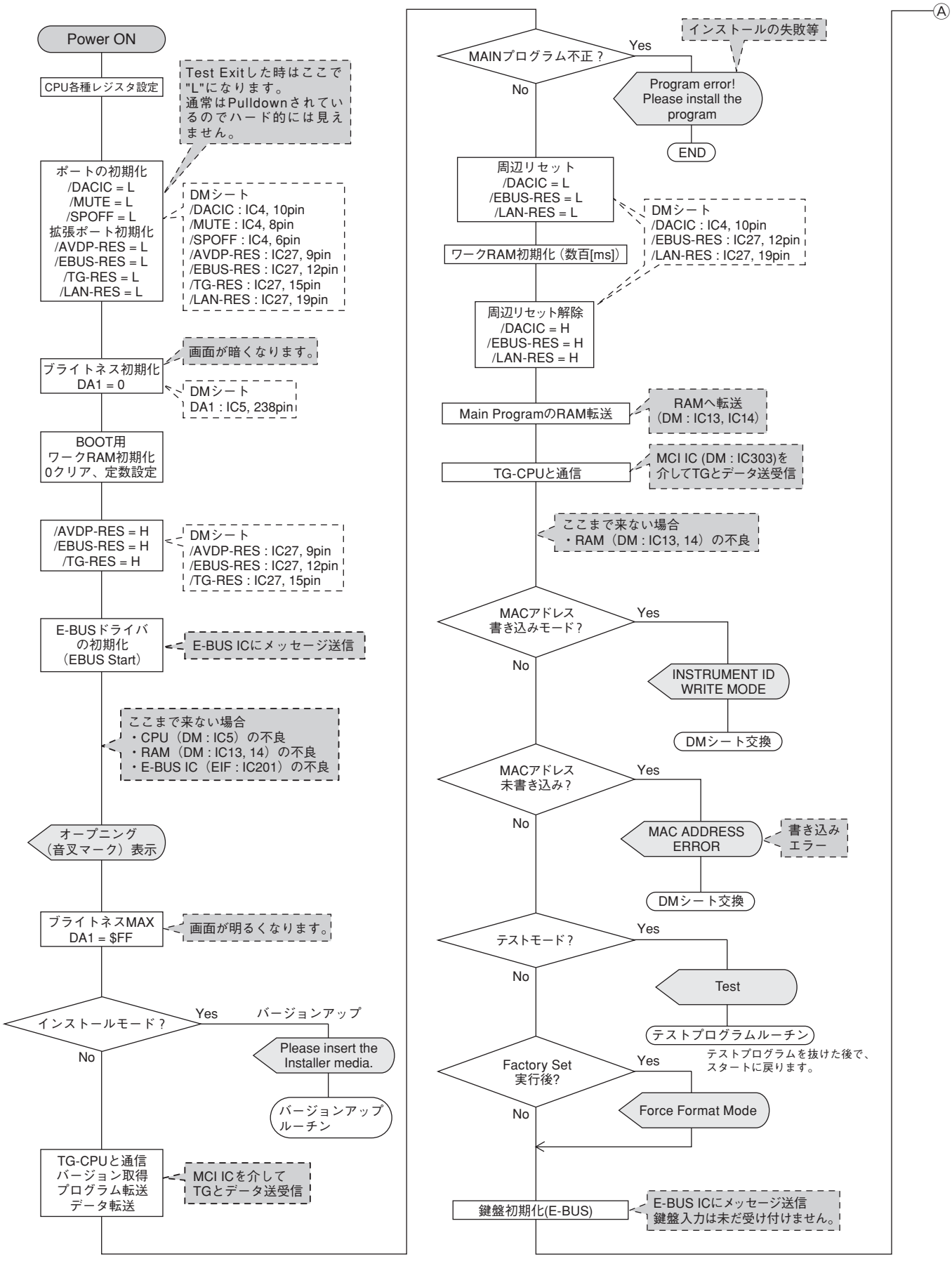
• PSR-S700



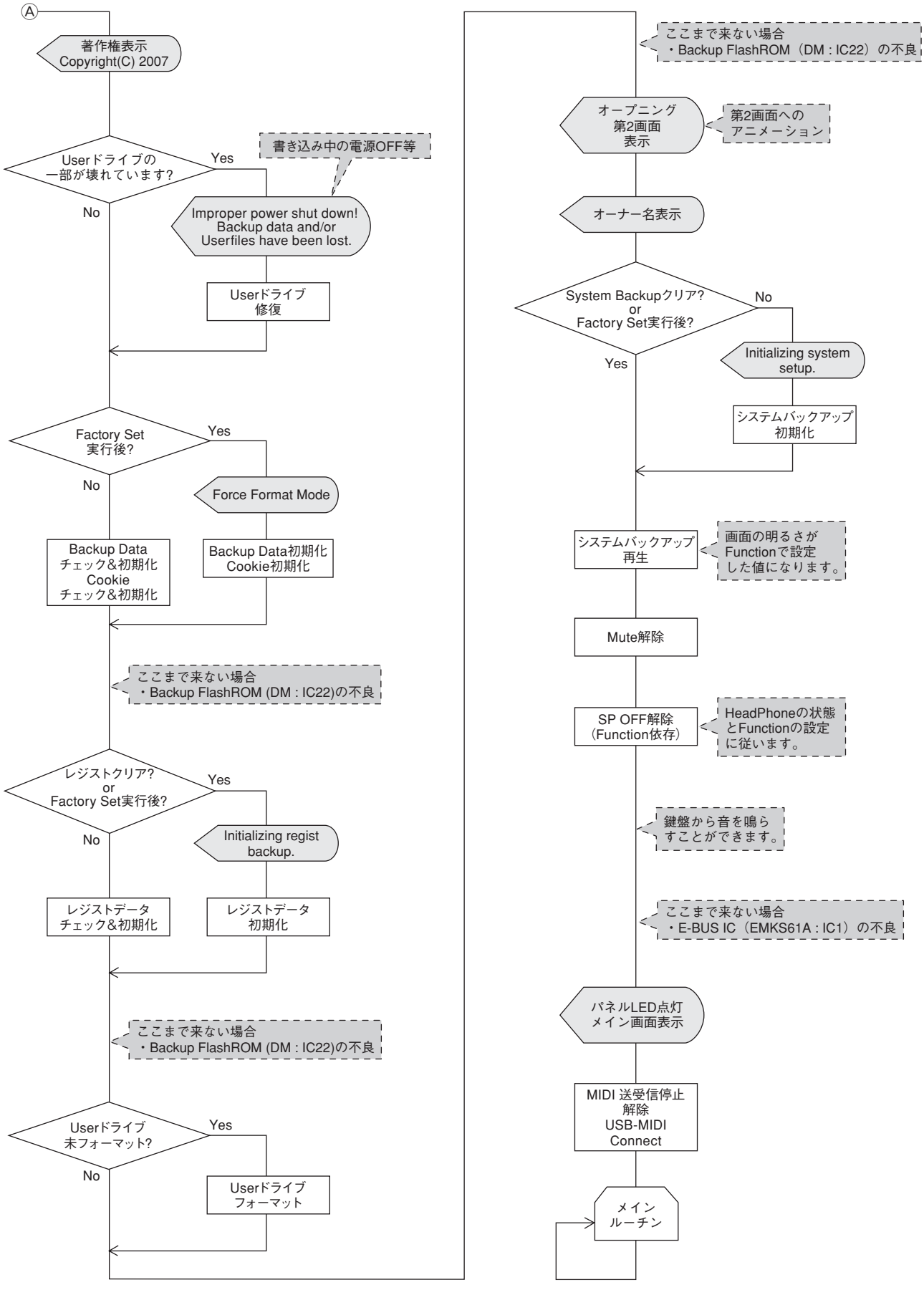
※Factory Set実行後とは、テストプログラムのFactrory Set実行後の電源ON時を指します。


Ⓐ
著作権表示
Copyright(C) 2007
Userドライブの
一部が壊れています?
Yes
No
書き込み中の電源OFF等
Improper power shut down!
Backup data and/or
Userfiles have been lost.
Userドライブ
修復
Factory Set
実行後?
Yes
No
Force Format Mode
Backup Data
チェック&初期化
Cookie
チェック&初期化
Backup Data初期化
Cookie初期化
ここまで来ない場合
・Backup FlashROM（DM : IC104）の不良
レジストクリア?
or
Factory Set実行後?
Yes
No
Initializing regist
backup.
レジストデータ
チェック&初期化
レジストデータ
初期化
ここまで来ない場合
・Backup FlashROM（DM : IC104）の不良
Userドライブ
未フォーマット?
Yes
No
Userドライブ
フォーマット
ここまで来ない場合
・Backup FlashROM（DM : IC104）の不良
オープニング
第2画面
表示
第2画面への
アニメーション
オーナー名表示
System Backupクリア?
or
Factory Set実行後?
No
Yes
Initializing system
setup.
システムバックアップ
初期化
システムバックアップ
再生
画面の明るさが
Functionで設定
した値になります。
Mute解除
SP OFF解除
（Function依存）
HeadPhoneの状態
とFunctionの設定
に従います。
鍵盤から音を鳴ら
すことができます。
ここまで来ない場合
・E-BUS IC（EMKS61A : IC1）の不良
パネルLED点灯
メイン画面表示
MIDI 送受信停止
解除
USB-MIDI
Connect
メイン
ルーチン

• **PSR-S900**



※Factory Set実行後とは、テストプログラムのFactrory Set実行後の電源ON時を指します。


Ⓐ
著作権表示
Copyright(C) 2007
Userドライブの
一部が壊れています?
Yes
No
書き込み中の電源OFF等
Improper power shut down!
Backup data and/or
Userfiles have been lost.
Userドライブ
修復
Factory Set
実行後?
Yes
No
Force Format Mode
Backup Data
チェック&初期化
Cookie
チェック&初期化
Backup Data初期化
Cookie初期化
ここまで来ない場合
・Backup FlashROM (DM : IC22)の不良
レジストクリア?
or
Factory Set実行後?
Yes
No
Initializing regist
backup.
レジストデータ
チェック&初期化
レジストデータ
初期化
ここまで来ない場合
・Backup FlashROM (DM : IC22)の不良
Userドライブ
未フォーマット?
Yes
No
Userドライブ
フォーマット
ここまで来ない場合
・Backup FlashROM（DM : IC22）の不良
オープニング
第2画面
表示
第2画面への
アニメーション
オーナー名表示
System Backupクリア?
or
Factory Set実行後?
No
Yes
Initializing system
setup.
システムバックアップ
初期化
システムバックアップ
再生
画面の明るさが
Functionで設定
した値になります。
Mute解除
SP OFF解除
（Function依存）
HeadPhoneの状態
とFunctionの設定
に従います。
鍵盤から音を鳴ら
すことができます。
ここまで来ない場合
・E-BUS IC（EMKS61A : IC1）の不良
パネルLED点灯
メイン画面表示
MIDI 送受信停止
解除
USB-MIDI
Connect
メイン
ルーチン

MIDI IMPLEMENTATION CHART

YAMAHA [Portable Keyboard] Date : 08-May-2006
Model PSR-S900/S700 MIDI Implementation Chart Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	1 - 16	1 - 16	
	Changed	1 - 16	1 - 16	
Mode	Default	3	3	
	Messages	×	×	
	Altered	**********	×	
Note Number : True voice		0 - 127 **********	0 - 127 0 - 127	
Velocity	Note ON	○ 9nH,v=1-127	○ 9nH,v=1-127	
	Note OFF	× 9nH,v=0	×	
After Touch	Key's	×	○	
	Ch's	×	○	
Pitch Bend		○	○ 0 - 24 semi	
Control Change	0,32	○	○	Bank Select
	1,5,7,10,11	○	○	
	6,38	○	○	Data Entry
	64,65,66,67	○	○	
	71,72,73,74	○	○	Sound Controller
	84	○	○	Portamento Cntrl
	91,93,94	○	○	Effect Depth
	96,97	×	○	RPN Inc,Dec
	98,99	○	○	NRPN LSB,MSB
	100,101	○	○	RPN LSB,MSB
Prog Change : True #		○ 0 - 127 **********	○ 0 - 127	
System Exclusive		○	○	
Common	: Song Pos.	×	×	
	: Song Sel.	×	×	
	: Tune	×	×	
System Real Time	: Clock	○	○	
	: Commands	○	○	
Aux Mes- sages	: All Sound Off	×	○ (120,126,127)	
	: Reset All Cntrls	×	○ (121)	
	: Local ON/OFF	×	○ (122)	
	: All Notes OFF	×	○ (123-125)	
	: Active Sense	○	○	
	: Reset	×	×	
Notes:				

Mode 1 : OMNI ON , POLY Mode 2 : OMNI ON ,MONO ○ : Yes
Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF,MONO × : No

MIDI DATA FORMAT

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexadecimal numbers may include the letter “H” as a suffix. Also, “n” can freely be defined as any whole number.
To enter data/values, refer to the table below.

Decimal	Hexadecimal	Binary
0	00	0000 0000
1	01	0000 0001
2	02	0000 0010
3	03	0000 0011
4	04	0000 0100
5	05	0000 0101
6	06	0000 0110
7	07	0000 0111
8	08	0000 1000
9	09	0000 1001
10	0A	0000 1010
11	0B	0000 1011
12	0C	0000 1100
13	0D	0000 1101
14	0E	0000 1110
15	0F	0000 1111
16	10	0001 0000
17	11	0001 0001
18	12	0001 0010
19	13	0001 0011
20	14	0001 0100
21	15	0001 0101
22	16	0001 0110
23	17	0001 0111
24	18	0001 1000
25	19	0001 1001
26	1A	0001 1010
27	1B	0001 1011
28	1C	0001 1100
29	1D	0001 1101
30	1E	0001 1110
31	1F	0001 1111

Decimal	Hexadecimal	Binary
32	20	0010 0000
33	21	0010 0001
34	22	0010 0010
35	23	0010 0011
36	24	0010 0100
37	25	0010 0101
38	26	0010 0110
39	27	0010 0111
40	28	0010 1000
41	29	0010 1001
42	2A	0010 1010
43	2B	0010 1011
44	2C	0010 1100
45	2D	0010 1101
46	2E	0010 1110
47	2F	0010 1111
48	30	0011 0000
49	31	0011 0001
50	32	0011 0010
51	33	0011 0011
52	34	0011 0100
53	35	0011 0101
54	36	0011 0110
55	37	0011 0111
56	38	0011 1000
57	39	0011 1001
58	3A	0011 1010
59	3B	0011 1011
60	3C	0011 1100
61	3D	0011 1101
62	3E	0011 1110
63	3F	0011 1111

Decimal	Hexadecimal	Binary
64	40	0110 0000
65	41	0110 0001
66	42	0110 0010
67	43	0110 0011
68	44	0110 0100
69	45	0110 0101
70	46	0110 0110
71	47	0110 0111
72	48	0110 1000
73	49	0110 1001
74	4A	0110 1010
75	4B	0110 1011
76	4C	0110 1100
77	4D	0110 1101
78	4E	0110 1110
79	4F	0110 1111
80	50	0111 0000
81	51	0111 0001
82	52	0111 0010
83	53	0111 0011
84	54	0111 0100
85	55	0111 0101
86	56	0111 0110
87	57	0111 0111
88	58	0111 1000
89	59	0111 1001
90	5A	0111 1010
91	5B	0111 1011
92	5C	0111 1100
93	5D	0111 1101
94	5E	0111 1110
95	5F	0111 1111

Decimal	Hexadecimal	Binary
96	60	0100 0000
97	61	0100 0001
98	62	0100 0010
99	63	0100 0011
100	64	0100 0100
101	65	0100 0101
102	66	0100 0110
103	67	0100 0111
104	68	0100 1000
105	69	0100 1001
106	6A	0100 1010
107	6B	0100 1011
108	6C	0100 1100
109	6D	0100 1101
110	6E	0100 1110
111	6F	0100 1111
112	70	0101 0000
113	71	0101 0001
114	72	0101 0010
115	73	0101 0011
116	74	0101 0100
117	75	0101 0101
118	76	0101 0110
119	77	0101 0111
120	78	0101 1000
121	79	0101 1001
122	7A	0101 1010
123	7B	0101 1011
124	7C	0101 1100
125	7D	0101 1101
126	7E	0101 1110
127	7F	0101 1111

- Except the table above, for example 144-159 (decimal)/9nH/1001 0000-1001 1111 (binary) denotes the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 denotes the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 denotes the Program Change Message for each channel (1-16). 240/F0H/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.
- aaH (hexadecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

MIDI CHANNEL MESSAGE (1)

[MIDI] [Song Creator]

MIDI Events	Status byte	1st Data byte			2nd Data byte			Voice		MIDI Reception					MIDI Transmission					PLAY	REC
	Status	Data	(HEX)	Parameter	Data	(HEX)	Parameter	Regular/ Drum/ Natural/ Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
Key Off [GM1] [GM2]	8nH (n: Channel Number)	kk		Key no. (0-127)	vv		Velocity (0-127)	O	O (Harmony Channel/ Melody Channel)	O	O	O	O	O	X	X	O	O	X	O	X	X
Key On [GM1] [GM2]	9nH (n: Channel Number)	kk		Key no. (0-127)	vv		Key On: vv=1-127 Key Off: vv=0	O	O (Harmony Channel/ Melody Channel)	O	O	O	O	O	●	O	O	O	●	O	X	O
Control Change	BnH	0	(00H)	Bank Select MSB [GM2]	0 8 8 64 120 121 126 127	(00H) (08H) (08H) (40H) (78H) (79H) (7EH) (7FH)	Normal Mega Voice SA Voice SFX Voice GM2 Rhythm GM2 Normal SFX Kit Drum Kit	O	X	O	O	O (Right1)	O	O	●	O	●	●	X	O	O	O
		1	(01H)	Modulation [GM1] [GM2]	0-127	(00H...7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	●	O	O	O
		5	(05H)	Portamento Time [GM2]	0-127	(00H...7FH)	Data	O (Except Organ Flutes)	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	X	O	O	O
		6	(06H)	Data Entry MSB [GM2]	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	X	O
		7	(07H)	Main Volume [GM1] [GM2]	0-127	(00H...7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O
		10	(0AH)	Panpot [GM1] [GM2]	0-127	(00H...7FH)	L64...C...R63	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O
		11	(0BH)	Expression [GM1] [GM2]	0-127	(00H...7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	●	●	●	●	●	O	O	O
		32	(20H)	Bank Select LSB [GM2]	0-127	(00H...7FH)	Data	O	X	O	O	O (Right1)	O	O	●	O	●	●	X	O	O	O
		38	(26H)	Data Entry LSB [GM2]	0-127	(00H...7FH)	Data	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	X	O	X	O
		64	(40H)	Sustain (Damper) [GM1] [GM2]	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
		65	(41H)	Portamento [GM2]	0-127	(00H...7FH)	0...63, 64...127 (OFF, ON)	O (Except Natural Piano, Organ Flutes)	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
		66	(42H)	Sostenuto [GM2]	0-127	(00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
		67	(43H)	Soft Pedal [GM2]	0-127	(00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
		71	(47H)	Harmonic Content [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O
		72	(48H)	Release Time [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
		73	(49H)	Attack Time [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
		74	(4AH)	Brightness [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O
		75	(4BH)	Decay Time [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
		76	(4CH)	Vibrato Rate [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
		77	(4DH)	Vibrato Depth [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
		78	(4EH)	Vibrato Delay [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
		84	(54H)	Portamento Control	0-127	(00H...7FH)	Key no. (0-127)	O	X	O	O	X	O	O	O	O	●	O	X	O	X	O
		91	(5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0-127	(00H...7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
		93	(5DH)	Effect3 Depth (Chorus Send Level) [GM2]	0-127	(00H...7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
		94	(5EH)	Effect4 Depth (Variation Send Level)	0-127	(00H...7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	O	O	●	●	X	O	O	X Multi Part Record-ing

								[MIDI]											[Song Creator]		
MIDI Events	**Status byte**	**1st Data byte**			**2nd Data byte**			**Voice**		**MIDI Reception**					**MIDI Transmission**					**PLAY**		**REC**
	Status	**Data**	**(HEX)**	**Parameter**	**Data**	**(HEX)**	**Parameter**	**Regular/ Drum/ Natural/ Organ Voice**	**Mic/Vocal Harmony**	**Song**	**Right1/ Right2/ Left**	**Keyboard**	**Style**	**Extra**	**Right1/ Right2/ Left**	**M.Pad**	**Style**	**Song**	**Upper Lower**	**PLAY**	**REW**	**From panel (Right1/ Right2/ Left)**
		96	(60H)	RPN Increment	-	-	The data byte is ignored.	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	X	O	X	O	X	O	X	X
		97	(61H)	RPN Decrement	-	-	The data byte is ignored.	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	X	O	X	O	X	O	X	X
		98	(62H)	NRPN LSB	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
		99	(63H)	NRPN MSB	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
		100	(64H)	RPN LSB [GM2]	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
		101	(65H)	RPN MSB [GM2]	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
Mode Message	BnH (n: Channel Number)	120	(78H)	All Sound Off [GM2]	0	(00H)	Data	O	X	O	O	O (All Keyboard parts)	O	O	X	O	X	O	X	O	X	X
		121	(79H)	Reset All Controllers [GM1] [GM2]	0	(00H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
		122	(7AH)	Local Control	0 127	(00H) (7FH)	OFF ON	-	-	O					X	X	X	X	X	X	X	X
		123	(7BH)	All Note Off [GM1] [GM2]	0	(00H)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	X	O	X	O	X	O	X	X
		124	(7CH)	Omni Off [GM2]	0	(00H)	Data	O	X	O (*1)	X	X	X	X	X	O	X	O	X	O	X	X
		125	(7DH)	Omni On [GM2]	0	(00H)	Data	O	X	O (*2)	X	X	X	X	X	O	X	O	X	O	X	X
		126	(7EH)	Mono [GM2]	0-16	(00H...10H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
		127	(7FH)	Poly [GM2]	0	(00H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
Program Change [GM1] [GM2]	CnH (n: Channel Number)	pp	(00H... 7FH)	Voice Number (0-127)	-	-	-	O	X	O	O	O (Right1)	O	O	●	O	●	●	X	O	O	O
Channel After Touch [GM1] [GM2]	DnH (n: Channel Number)	vv	(00H... 7FH)	Data	-	-	-	O	X	O	O	O (All Keyboard parts)	X	O	X	O	X	O	X	O	X	O
Polyphonic After Touch	AnH (n: Channel Number)	kk	(00H... 7FH)	Key no. (0-127)	vv	(00H...7FH)	Data	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
Pitch Bend Change [GM1] [GM2]	EnH (n: Channel Number)	cc	(00H... 7FH)	LSB	dd	(00H...7FH)	MSB	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	●	O	O	O
Realtime Message	F8H MIDI Clock	-		-	-		-	-	-	O (Received when the Clock is set to MIDI, USB1, or USB2.)					O (Transmitted when the Clock is set to Internal and the Transmit Clock is set to on.)					-	-	-
	FAH Start	-		-	-		-	-	-	O (Received when the Clock is set to MIDI, USB1, or USB2.)					O (Transmitted when the Transmit Clock is set to on.)					-	-	-
	FBH Continue	-		-	-		-	-	-	X					X					-	-	-
	FCH Stop	-		-	-		-	-	-	O (Received when the Clock is set to MIDI, USB1, or USB2.)					O (Transmitted when the Transmit Clock is set to on.)					-	-	-
	FEH Active Sense [GM2]	-		-	-		-	-	-	O					O					-	-	-
	FFH System Reset	-		-	-		-	-	-	X					X					-	-	-

●: Transmitted via panel operations and keyboard/controller performances.

About Mic/Vocal Harmony column:
(HarmonyChannel/Melody Channel): The relevant parameters are received by the song part designated by the Effect's Harmony Channel Parameter or Melody Channel Parameter.
(A/D Part Receive Channel): The relevant parameters are received by the song part designated by the XG's AD Part Receive Ch.

*1: Same operation as when receiving All Note Off.
*2: Same operation as when receiving All Note Off. OMNI ON is not enabled.

Mic./Vocal Harmony

PSR-S700	X
PSR-S900	O

SA (Super Articulation)

PSR-S700	X
PSR-S900	O

[GM1] ... GM Required Parameter
[GM2] ... GM Level 2 Required Parameter

MIDI CHANNEL MESSAGE (2)

NRPN

[MIDI] [Song Creator]

NRPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception					MIDI Transmission					PLAY	REC	
MSB	LSB	MSB	LSB			Regular/ Drum/ Natural/ Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
01H	08H	mmH	--	Vibrato Rate	mm: 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	09H	mmH	--	Vibrato Depth	mm: 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	0AH	mmH	--	Vibrato Delay	mm: 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	20H	mmH	--	Low Pass Filter Cutoff Frequency	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	21H	mmH	--	Low Pass Filter Resonance	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	30H	mmH	--	EQ Bass Gain	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	X	O	X	O	O	X
01H	31H	mmH	--	EQ Treble Gain	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	X	O	X	O	O	X
01H	34H	mmH	--	EQ Bass Frequency	mm: 04H-28H (32...2.0k[Hz])	O	X	O	X	X	X	X	X	X	X	O	X	O	O	X
01H	35H	mmH	--	EQ Treble Frequency	mm: 1CH-3AH (500...16.0k[Hz])	O	X	O	X	X	X	X	X	X	X	O	X	O	O	X
01H	63H	mmH	--	EG Attack Time	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	64H	mmH	--	EG Decay Time	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	66H	mmH	--	EG Release	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
14H	rrH	mmH	--	Drum Low Pass Filter Cutoff Frequency	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
15H	rrH	mmH	--	Drum Low Pass Filter Resonance	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
16H	rrH	mmH	--	Drum EG Attack Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
17H	rrH	mmH	--	Drum EG Decay Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
18H	rrH	mmH	--	Drum Pitch Coarse	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
19H	rrH	mmH	--	Drum Pitch Fine	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1AH	rrH	mmH	--	Drum Level	rr: drum instrument note number mm: 00H-7FH (0...127)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1CH	rrH	mmH	--	Drum Pan	rr: drum instrument note number mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1DH	rrH	mmH	--	Drum Reverb Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1EH	rrH	mmH	--	Drum Chorus Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1FH	rrH	mmH	--	Drum Variation Send Level	rr: drum instrument note number mm: 00H-7FH (0...127) (Variation Connection = SYSTEM) mm: 00H, 01H-7FH (OFF, ON) (Variation Connection = INSERTION)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
30H	rrH	mmH	--	Drum EQ Bass Gain	rr: drum instrument note number mm: 00H-7FH (0...127)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31H	rrH	mmH	--	Drum EQ Treble Gain	rr: drum instrument note number mm: 00H-7FH (0...127)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34H	rrH	mmH	--	Drum EQ Bass Frequency	rr: drum instrument note number mm: 04H-28H (32...2.0k[Hz])	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35H	rrH	mmH	--	Drum EQ Treble Frequency	rr: drum instrument note number mm: 1CH-3AH (500...16.0k[Hz])	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

●: Transmitted via panel operations and keyboard/controller performances.

NRPN MSB: 14H-1FH (for drums) message is accepted as long as the channel is set with a drum voice.
Data Entry LSB: Ignored.

NRPN (Vocal Harmony)

[MIDI] [Song Creator]

NRPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception					MIDI Transmission					PLAY	REC	
MSB	LSB	MSB	LSB			Regular/ Drum/ Natural/ Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
00H	00H	mmH	--	Harmony Mute	mm: 00H-3FH, 40H-7FH (Off, On)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	O	X	O	X	X
01H	1AH	mmH	--	Detune Modulation	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	O	X	O	X	X
02H	10H	mmH	--	Harmony1 Volume	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	11H	mmH	--	Harmony2 Volume	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	12H	mmH	--	Harmony3 Volume	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	20H	mmH	--	Harmony1 Pan	mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	21H	mmH	--	Harmony2 Pan	mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	22H	mmH	--	Harmony3 Pan	mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	30H	mmH	--	Harmony1 Detune	mm: 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	31H	mmH	--	Harmony2 Detune	mm: 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	32H	mmH	--	Harmony3 Detune	mm: 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X

●: Transmitted via panel operations and keyboard/controller performances.
Message is sent to the Song Channel part set in MicSetting → Vocoder Control → Song Channel.

Data Entry LSB: Ignored.

RPN [MIDI] [Song Creator]

RPN MSB	RPN LSB	Data Entry MSB	Data Entry LSB	Parameter	Data Range	Voice: Regular/Drum/Natural/Organ Voice	Voice: Mic/Vocal Harmony	MIDI Reception: Song	MIDI Reception: Right1/Right2/Left	MIDI Reception: Keyboard	MIDI Reception: Style	MIDI Reception: Extra	MIDI Transmission: Right1/Right2/Left	MIDI Transmission: M.Pad	MIDI Transmission: Style	MIDI Transmission: Song	MIDI Transmission: Upper Lower	PLAY	REW	REC: From panel (Right1/Right2/Left)
00H	00H	mmH	--	Pitch Bend Sensitivity [GM1] [GM2]	mm: 00H-18H (0...+24[semitones])	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
00H	01H	mmH	llH	Fine Tune [GM1] [GM2]	mm ll: 00H 00H -100[cent] ... mm ll: 40H 00H 0[cent] ... mm ll: 7FH 7FH 100[cent]	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
00H	02H	mmH	--	Coarse Tune [GM1] [GM2]	mm: 28H-40H-58H (-24...0...+24[semitones])	O	X	O	O	O (All Keyboard parts)	O	O	X	O	O	O	X	O	O	X
00H	05H	mmH	llH	Modulation Sensitivity [GM2]	mm: Specified in semitone steps ll: Specified in 100/128 cent steps	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
7FH	7FH	--	--	Null [GM2]	-	O	O	O	O	O (All Keyboard parts)	O	O	X	O	O	O	X	O	X	X

●: Transmitted via panel operations and keyboard/controller performances.

About Mic/Vocal Harmony column:
The relevant parameters are received by the song part designated by the Effect's Harmony Channel Parameter or Melody Channel Parameter.

Mic./Vocal Harmony

PSR-S700	X
PSR-S900	O

[GM1] ... GM Required Parameter
[GM2] ... GM Level 2 Required Parameter

XG PARAMETER CHANGE TABLE

* Not received when Receive System Exclusive Message Parameters is set to off.
* Not transmitted when Transmit System Exclusive Message Parameters is set to off.

MIDI Parameter Change table (XG SYSTEM)

[MIDI] [Song Creator]

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice: Regular/Drum/Natural/Organ Voice	Voice: Mic/Vocal Harmony	MIDI Reception: Song	MIDI Reception: Right1/Right2/Left	MIDI Reception: Keyboard	MIDI Reception: Style	MIDI Reception: Extra	MIDI Transmission: Right1/Right2/Left	MIDI Transmission: M.Pad	MIDI Transmission: Style	MIDI Transmission: Song	MIDI Transmission: Upper Lower	PLAY	REW	REC: From panel (Right1/Right2/Left)
00	00	00	4	00-0F	MASTER TUNE	-102.4...0...+102.3[cent]	*Panel setting value	O	O	O					●					O	X	X
		01		00-0F		1st bit3-0 -> bit15-12																
		02		00-0F		2nd bit3-0 -> bit11-8																
		03		00-0F		3rd bit3-0 -> bit7-4																
						4th bit3-0 -> bit3-0																
		04	1	00-7F	MASTER VOLUME	0...127	7F	O	X	O (Available for extra parts of a song)				O					O	O	X
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	X	X	X					X					X	X	X
		06	1	28-58	TRANSPOSE	-24...0...+24[semitones]	40	O	O	O (Available for extra parts of a song)					O					O	O	X
		7D	1	N	DRUM SETUP RESET	N: Drum setup number	-	O (Drum only)	X	O (Available for extra parts of a song)					O					O	X	X
		7E	1	00	XG SYSTEM ON	00=XG system ON	-	O	X	O (Available for extra parts of a song)					O					O	X	O
		7F	1	00	ALL PARAMETER RESET	00=ON	-	O	X	O (Available for extra parts of a song)					O					O	X	X

TOTAL SIZE 07
●: Transmitted via panel operations

MIDI Parameter Change table (SYSTEM INFORMATION)

[MIDI] [Song Creator]

Address (H)			Size (H)	Data (H)	Parameter	Description	Voice: Regular/Drum/Natural/Organ Voice	Voice: Mic/Vocal Harmony	MIDI Reception: Song	MIDI Reception: Right1/Right2/Left	MIDI Reception: Keyboard	MIDI Reception: Style	MIDI Reception: Extra	MIDI Transmission: Right1/Right2/Left	MIDI Transmission: M.Pad	MIDI Transmission: Style	MIDI Transmission: Song	MIDI Transmission: Upper Lower	PLAY	REW	REC: From panel (Right1/Right2/Left)
01	00	00	E	20-7F	Model Name 1	32...127 (ASCII CHARACTER)	-	-			-					O (Available only when receiving requests via MIDI)				-	-	-
		...	1	...	...	...																
		0D	1	20-7F	Model Name 14	32...127 (ASCII CHARACTER)																
		0E			NOT USED																	
		0F			NOT USED																	

TOTAL SIZE 10
Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

[MIDI] [Song Creator]

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice: Regular/Drum/Natural/Organ Voice	Voice: Mic/Vocal Harmony	MIDI Reception: Song	MIDI Reception: Right1/Right2/Left	MIDI Reception: Keyboard	MIDI Reception: Style	MIDI Reception: Extra	MIDI Transmission: Right1/Right2/Left	MIDI Transmission: M.Pad	MIDI Transmission: Style	MIDI Transmission: Song	MIDI Transmission: Upper Lower	PLAY	REW	REC: PFrom panel (Right1/Right2/Left)
02	01	00	2	00-7F	REVERB TYPE MSB	Refer to Effect Parameter List	01 (=HALL1)	O	O			O					●			O	O	O
				00-7F	REVERB TYPE LSB		00															
		02	1	00-7F	REVERB PARAMETER 1		Depends on Reverb Type	O	O			O					●			O	O	O
		03	1	00-7F	REVERB PARAMETER 2		Depends on Reverb Type	O	O			O					●			O	O	O
		04	1	00-7F	REVERB PARAMETER 3		Depends on Reverb Type	O	O			O					●			O	O	O
		05	1	00-7F	REVERB PARAMETER 4		Depends on Reverb Type	O	O			O					●			O	O	O
		06	1	00-7F	REVERB PARAMETER 5		Depends on Reverb Type	O	O			O					●			O	O	O

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	PFrom panel (Right1/ Right2/ Left)
		07	1	00-7F	REVERB PARAMETER 6	Refer to Effect Parameter List	Depends on Reverb Type	O	O		O						●			O	O	O
		08	1	00-7F	REVERB PARAMETER 7		Depends on Reverb Type	O	O		O						●			O	O	O
		09	1	00-7F	REVERB PARAMETER 8		Depends on Reverb Type	O	O		O						●			O	O	O
		0A	1	00-7F	REVERB PARAMETER 9		Depends on Reverb Type	O	O		O						●			O	O	O
		0B	1	00-7F	REVERB PARAMETER 10		Depends on Reverb Type	O	O		O						●			O	O	O
		0C	1	00-7F	REVERB RETURN	-∞dB...0dB...+6dB (0...64...127)	40	O	O		O						●			O	O	O
		0D	1	01-7F	REVERB PAN	L63...C...R63	40	O	O		O						O			O	O	X
TOTAL SIZE 0E																						
02	01	10	1	00-7F	REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	O	O		O						●			O	O	O
		11	1	00-7F	REVERB PARAMETER 12		Depends on Reverb Type	O	O		O						●			O	O	O
		12	1	00-7F	REVERB PARAMETER 13		Depends on Reverb Type	O	O		O						●			O	O	O
		13	1	00-7F	REVERB PARAMETER 14		Depends on Reverb Type	O	O		O						●			O	O	O
		14	1	00-7F	REVERB PARAMETER 15		Depends on Reverb Type	O	O		O						●			O	O	O
		15	1	00-7F	REVERB PARAMETER 16		Depends on Reverb Type	O	O		O						●			O	O	O
OTAL SIZE 06																						

●: Transmitted via panel operations

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
02	01	20	2	00-7F 00-7F	CHORUS TYPE MSB CHORUS TYPE LSB	Refer to Effect Parameter List	41 (=CHORUS1) 00	O	O		O						●			O	O	O
		22	1	00-7F	CHORUS PARAMETER 1		Depends on Chorus Type	O	O		O						●			O	O	O
		23	1	00-7F	CHORUS PARAMETER 2		Depends on Chorus Type	O	O		O						●			O	O	O
		24	1	00-7F	CHORUS PARAMETER 3		Depends on Chorus Type	O	O		O						●			O	O	O
		25	1	00-7F	CHORUS PARAMETER 4		Depends on Chorus Type	O	O		O						●			O	O	O
		26	1	00-7F	CHORUS PARAMETER 5		Depends on Chorus Type	O	O		O						●			O	O	O
		27	1	00-7F	CHORUS PARAMETER 6		Depends on Chorus Type	O	O		O						●			O	O	O
		28	1	00-7F	CHORUS PARAMETER 7		Depends on Chorus Type	O	O		O						●			O	O	O
		29	1	00-7F	CHORUS PARAMETER 8		Depends on Chorus Type	O	O		O						●			O	O	O
		2A	1	00-7F	CHORUS PARAMETER 9		Depends on Chorus Type	O	O		O						●			O	O	O
		2B	1	00-7F	CHORUS PARAMETER 10		Depends on Chorus Type	O	O		O						●			O	O	O
		2C	1	00-7F	CHORUS RETURN	-∞dB...0dB...+6dB (0...64...127)	40	O	O		O						●			O	O	O
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40	O	O		O						O			O	O	X
		2E	1	00-7F	SEND CHORUS TO REVERB	-∞dB...0dB...+6dB (0...64...127)	00	O	O		O						O			O	O	X
TOTAL SIZE 0F																						
02	01	30	1	00-7F	CHORUS PARAMETER 11	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O						●			O	O	O
		31	1	00-7F	CHORUS PARAMETER 12		Depends on Chorus Type	O	O		O						●			O	O	O
		32	1	00-7F	CHORUS PARAMETER 13		Depends on Chorus Type	O	O		O						●			O	O	O
		33	1	00-7F	CHORUS PARAMETER 14		Depends on Chorus Type	O	O		O						●			O	O	O
		34	1	00-7F	CHORUS PARAMETER 15		Depends on Chorus Type	O	O		O						●			O	O	O
		35	1	00-7F	CHORUS PARAMETER 16		Depends on Chorus Type	O	O		O						●			O	O	O
TOTAL SIZE 06																						

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
02	01	40	2	00-7F 00-7F	VARIATION TYPE MSB VARIATION TYPE LSB	Refer to Effect Parameter List	05 (=DELAY L, C, R) 00	O	O		O						●			O	O	O
		42	2	00-7F 00-7F	VARIATION PARAMETER 1 MSB VARIATION PARAMETER 1 LSB		Depends on Variation Type	O	O		O						●			O	O	O
		44	2	00-7F 00-7F	VARIATION PARAMETER 2 MSB VARIATION PARAMETER 2 LSB		Depends on Variation Type	O	O		O						●			O	O	O
		46	2	00-7F 00-7F	VARIATION PARAMETER 3 MSB VARIATION PARAMETER 3 LSB		Depends on Variation Type	O	O		O						●			O	O	O
		48	2	00-7F 00-7F	VARIATION PARAMETER 4 MSB VARIATION PARAMETER 4 LSB		Depends on Variation Type	O	O		O						●			O	O	O
		4A	2	00-7F 00-7F	VARIATION PARAMETER 5 MSB VARIATION PARAMETER 5 LSB		Depends on Variation Type	O	O		O						●			O	O	O
		4C	2	00-7F 00-7F	VARIATION PARAMETER 6 MSB VARIATION PARAMETER 6 LSB		Depends on Variation Type	O	O		O						●			O	O	O
		4E	2	00-7F 00-7F	VARIATION PARAMETER 7 MSB VARIATION PARAMETER 7 LSB		Depends on Variation Type	O	O		O						●			O	O	O
		50	2	00-7F 00-7F	VARIATION PARAMETER 8 MSB VARIATION PARAMETER 8 LSB		Depends on Variation Type	O	O		O						●			O	O	O
		52	2	00-7F 00-7F	VARIATION PARAMETER 9 MSB VARIATION PARAMETER 9 LSB		Depends on Variation Type	O	O		O						●			O	O	O

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
		54	2	00-7F 00-7F	VARIATION PARAMETER 10 MSB VARIATION PARAMETER 10 LSB	Refer to Effect Parameter List	Depends on Variation Type	O	O		O						●			O	O	O
		56	1	00-7F	VARIATION RETURN	-∞dB...0dB...+6dB (0...64...127)	40	O	O		O						●			O	O	O
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	O	O		O						O			O	O	X
		58	1	00-7F	SEND VARIATION TO REVERB	-∞dB...0dB...+6dB (0...64...127)	00	O	O		O						O			O	O	X
		59	1	00-7F	SEND VARIATION TO CHORUS	-∞dB...0dB...+6dB (0...64...127)	00	O	O		O						O			O	O	X
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	O	O		O						●			O	O	O
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)	7F	O	O		O						●			O	O	O
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O						O			O	O	X
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O						O			O	O	X
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O						O			O	O	X
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O						O			O	O	X
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O						O			O	O	X

TOTAL SIZE 21

02	01	70	1	00-7F	VARIATION PARAMETER 11	Refer to Effect Parameter List	Depends on Variation Type	O	O		O						●			O	O	O
		71	1	00-7F	VARIATION PARAMETER 12		Depends on Variation Type	O	O		O						●			O	O	O
		72	1	00-7F	VARIATION PARAMETER 13		Depends on Variation Type	O	O		O						●			O	O	O
		73	1	00-7F	VARIATION PARAMETER 14		Depends on Variation Type	O	O		O						●			O	O	O
		74	1	00-7F	VARIATION PARAMETER 15		Depends on Variation Type	O	O		O						●			O	O	O
		75	1	00-7F	VARIATION PARAMETER 16		Depends on Variation Type	O	O		O						●			O	O	O

TOTAL SIZE 06

●: Transmitted via panel operations.

MIDI Parameter Change table (MULTI EQ)

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
02	40	00	1	00-04	EQ TYPE	flat, jazz, pops, rock, classic	*The MULTI EQ Parameter cannot be reset to its factory setting with XG SYSTEM ON.	O	O		O						O			O	X	X
		01	1	34-4C	EQ GAIN1	-12...0...+12[dB]		O	O		O						●			O	X	X
		02	1	04-28	EQ FREQUENCY1	32...2.0k[Hz]		O	O		O						●			O	X	X
		03	1	01-78	EQ Q1	0.1...12.0		O	O		O						●			O	X	X
		04	1	00-01	EQ SHAPE1	shelving, peaking		O	O		O						O			O	X	X
		05	1	34-4C	EQ GAIN2	-12...0...+12[dB]		O	O		O						●			O	X	X
		06	1	0E-36	EQ FREQUENCY2	100...10.0k[Hz]		O	O		O						●			O	X	X
		07	1	01-78	EQ Q2	0.1...12.0		O	O		O						●			O	X	X
		08	1		NOT USED			-	-		-						-			-	-	-
		09	1	34-4C	EQ GAIN3	-12...0...+12[dB]		O	O		O						●			O	X	X
		0A	1	0E-36	EQ FREQUENCY3	100...10.0k[Hz]		O	O		O						●			O	X	X
		0B	1	01-78	EQ Q3	0.1...12.0		O	O		O						●			O	X	X
		0C	1		NOT USED			-	-		-						-			-	-	-
		0D	1	34-4C	EQ GAIN4	-12...0...+12[dB]		O	O		O						●			O	X	X
		0E	1	0E-36	EQ FREQUENCY4	100...10.0k[Hz]		O	O		O						●			O	X	X
		0F	1	01-78	EQ Q4	0.1...12.0		O	O		O						●			O	X	X
		10	1		NOT USED			-	-		-						-			-	-	-
		11	1	34-4C	EQ GAIN5	-12...0...+12[dB]		O	O		O						●			O	X	X
		12	1	1C-3A	EQ FREQUENCY5	0.5k...16.0k[Hz]		O	O		O						●			O	X	X
		13	1	01-78	EQ Q5	0.1...12.0		O	O		O						●			O	X	X
		14	1	00-01	EQ SHAPE5	shelving, peaking		O	O		O						O			O	X	X

TOTAL SIZE 15

●: Transmitted via panel operations.

About PLAY column:
Not available when Function → Utility → Parameter Lock is checked.

MIDI Parameter Change table (EFFECT2)

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
03	n	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Refer to Effect Parameter List	*The EFFECT 2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.	O	O		O						●			O	O	O
		02	1	00-7F	INSERTION EFFECT PARAMETER 1			O	O		O						●			O	O	O
		03	1	00-7F	INSERTION EFFECT PARAMETER 2			O	O		O						●			O	O	O
		04	1	00-7F	INSERTION EFFECT PARAMETER 3			O	O		O						●			O	O	O
		05	1	00-7F	INSERTION EFFECT PARAMETER 4			O	O		O						●			O	O	O
		06	1	00-7F	INSERTION EFFECT PARAMETER 5			O	O		O						●			O	O	O
		07	1	00-7F	INSERTION EFFECT PARAMETER 6			O	O		O						●			O	O	O
		08	1	00-7F	INSERTION EFFECT PARAMETER 7			O	O		O						●			O	O	O
		09	1	00-7F	INSERTION EFFECT PARAMETER 8			O	O		O						●			O	O	O
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9			O	O		O						●			O	O	O
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10			O	O		O						●			O	O	O

[MIDI] [Song Creator]

Address (H)			Size (H)	Data (H)	Parameter	Description		Voice		MIDI Reception					MIDI Transmission					PLAY		REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
		0C	1	00-7F	INSERTION EFFECT PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)		O	O		O						●			O	O	O
		0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63		O	O		O						O			O	O	X
		0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63		O	O		O						O			O	O	X
		0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63		O	O		O						O			O	O	X
		10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63		O	O		O						O			O	O	X
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63		O	O		O						O			O	O	X

TOTAL SIZE 12

		20	1	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List		O	O		O						●			O	O	O
		21	1	00-7F	INSERTION EFFECT PARAMETER 12			O	O		O						●			O	O	O
		22	1	00-7F	INSERTION EFFECT PARAMETER 13			O	O		O						●			O	O	O
		23	1	00-7F	INSERTION EFFECT PARAMETER 14			O	O		O						●			O	O	O
		24	1	00-7F	INSERTION EFFECT PARAMETER 15			O	O		O						●			O	O	O
		25	1	00-7F	INSERTION EFFECT PARAMETER 16			O	O		O						●			O	O	O

TOTAL SIZE 6

[MIDI] [Song Creator]

Address (H)			Size (H)	Data (H)	Parameter	Description		Voice		MIDI Reception					MIDI Transmission					PLAY		REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
		30	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 1 MSB INSERTION EFFECT PARAMETER 1 LSB	Refer to Effect Parameter List		O	O		O						●			O	O	O
		32	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 2 MSB INSERTION EFFECT PARAMETER 2 LSB			O	O		O						●			O	O	O
		34	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 3 MSB INSERTION EFFECT PARAMETER 3 LSB			O	O		O						●			O	O	O
		36	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 4 MSB INSERTION EFFECT PARAMETER 4 LSB			O	O		O						●			O	O	O
		38	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 5 MSB INSERTION EFFECT PARAMETER 5 LSB			O	O		O						●			O	O	O
		3A	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 6 MSB INSERTION EFFECT PARAMETER 6 LSB			O	O		O						●			O	O	O
		3C	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 7 MSB INSERTION EFFECT PARAMETER 7 LSB			O	O		O						●			O	O	O
		3E	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 8 MSB INSERTION EFFECT PARAMETER 8 LSB			O	O		O						●			O	O	O
		40	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB			O	O		O						●			O	O	O
		42	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 10 MSB INSERTION EFFECT PARAMETER 10 LSB			O	O		O						●			O	O	O

TOTAL SIZE 14

●: Transmitted via panel operations

The second byte of the address is considered as an Insertion effect number
n: insertion effect number

PSR-S700	n = 0~2
PSR-S900	n = 0~2

For effect types that do not require MSB, the Parameters for Address 02-0B will be received and the Parameters for Address 30-42 will not be received.
For effect types that require MSB, the Parameters for Address 30-42 will be received and the Parameters for Address 02-0B will not be received.
When bulk dumps that include Effect Type data are transmitted, the parameters for addresses 02-0B will always be transmitted.
For effects that require MSB however, when a bulk dump is received, the parameters for addresses 02-0B will not be received.

MIDI Parameter Change table (SPECIAL EFFECT)

PSR-S700	X
PSR-S900	O

[MIDI] [Sound Creator]

Address (H)			Size (H)	Data (H)	Parameter	Description		Voice		MIDI Reception					MIDI Transmission					PLAY		REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
04	00	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Vocoder (89), Chordal (90), Detune (91), Chromatic (92), Thru (0...88, 93...127)	*The SPECIAL EFFECT Parameter cannot be reset to its factory setting with XG SYSTEM ON	X	O		O						●			O	O	X
		02	1	00-7F	INSERTION EFFECT PARAMETER 1 Harmony Mode			X	O		O						●			O	O	X
		03	1	00-7F	INSERTION EFFECT PARAMETER 2 Harmony Gender Type	Off (0), Auto (1)		X	O		O						●			O	O	X
		04	1	00-7F	INSERTION EFFECT PARAMETER 3 Lead Gender Type	Off (0), Unison (1), Male (2), Female (3)		X	O		O						●			O	O	X
		05	1	00-7F	INSERTION EFFECT PARAMETER 4 Lead Gender Depth	-64...0...+63 (0...127)		X	O		O						●			O	O	X
		06	1	00-7F	INSERTION EFFECT PARAMETER 5 Lead Pitch Correction	Free (0), Correct (1)		X	O		O						●			O	O	X
		07	1	00-7F	INSERTION EFFECT PARAMETER 6 Auto Upper Gender Threshold	0...12 (0...12)		X	O		O						●			O	O	X
		08	1	00-7F	INSERTION EFFECT PARAMETER 7 Auto Lower Gender Threshold	0...12 (0...12)		X	O		O						●			O	O	X
		09	1	00-7F	INSERTION EFFECT PARAMETER 8 Upper Gender Depth	-64...0...+63 (0...127)		X	O		O						●			O	O	X
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9 Lower Gender Depth	-64...0...+63 (0...127)		X	O		O						●			O	O	X
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	L63>H...L=H...L<H63 (1...64...127)		X	O		O						●			O	O	X
		0C	1	00-7F	INSERTION EFFECT PART NUMBER	AD(64), OFF (0...63, 65...127)		X	O		O						●			O	O	O
		0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63		X	X		X						X			X	X	X
		0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63		X	X		X						X			X	X	X
		0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63		X	X		X						X			X	X	X

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Sound Creator] PLAY		[Sound Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
		10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63		X	X	X					X					X	X	X
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63		X	X	X					X					X	X	X
TOTAL SIZE 12																						
		14	1	00-7F	UNIQUE INSERTION EFFECT EXTERNAL CONTROL CH1 (HARMONY CHANNEL)	1...16 (0...15), OFF (127)		X	O	O					●					O	O	X
		15	1	00-7F	UNIQUE INSERTION EFFECT EXTERNAL CONTROL CH1 (MELODY CHANNEL)	1...16 (0...15), OFF (127)		X	O	O					O					O	O	X
TOTAL SIZE 2																						
		20	1	00-7F	INSERTION EFFECT PARAMETER 11 Vibrato Depth	0...100cent (0...127)		X	O	O					●					O	O	X
		21	1	00-7F	INSERTION EFFECT PARAMETER 12 Vibrato Rate	0Hz (0), 0.1...12.7Hz (1...127)		X	O	O					●					O	O	X
		22	1	00-7F	INSERTION EFFECT PARAMETER 13 Vibrato Delay	0...2.54sec (0...127)		X	O	O					●					O	O	X
		23	1	00-7F	INSERTION EFFECT PARAMETER 14			X	X	X					X					X	X	X
		24	1	00-7F	INSERTION EFFECT PARAMETER 15			X	X	X					X					X	X	X
		25	1	00-7F	INSERTION EFFECT PARAMETER 16			X	X	X					X					X	X	X

TOTAL SIZE 6

●: Transmitted via panel operations

MIDI Parameter Change table (MULTI PART)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Sound Creator] PLAY		[Sound Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
08	nn	00	1	00-20	ELEMENT RESERVE	0...32	part10, 26=0, other parts=2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		01	1	00-7F	BANK SELECT MSB	0...127	part10=7F, other parts=00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		02	1	00-7F	BANK SELECT LSB	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		03	1	00-7F	PROGRAM NUMBER	1...128	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		04	1	00-0F, 7F	Rcv CHANNEL	1...16, OFF	Part No.	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		05	1	00-01	MONO/POLY MODE	MONO, POLY	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	O	X	O	X	X	O	X	X	X	X	O	X	O	X	X
		07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS1...2	part10=02, other parts=00	O	X	O	X	X	X	X	●	X	●	●	X	O	X	O
		08	1	28-58	NOTE SHIFT	-24...0...+24[semitones]	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		09 0A	2	00-0F 00-0F	DETUNE	-12.8...0...+12.7[Hz] 1st bit3-0 -> bit7-4 2nd bit3-0 -> bit3-0	08 00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		0B	1	00-7F	VOLUME	0...127	64	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		0C	1	00-7F	VELOCITY SENSE DEPTH	0...127	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		0E	1	00-7F	PAN	RND, L63...C...R63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		0F	1	00-7F	NOTE LIMIT LOW	C-2...G8	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		10	1	00-7F	NOTE LIMIT HIGH	C-2...G8	7F	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		11	1	00-7F	DRY LEVEL	0...127	7F	O	X	O	O	X	O	O	X	O	●	●	X	O	O	O
		12	1	00-7F	CHORUS SEND	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		13	1	00-7F	REVERB SEND	0...127	28	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		14	1	00-7F	VARIATION SEND	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	O
		15	1	00-7F	VIBRATO RATE	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		16	1	00-7F	VIBRATO DEPTH	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		17	1	00-7F	VIBRATO DELAY	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		18	1	00-7F	FILTER CUTOFF FREQUENCY	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		19	1	00-7F	FILTER RESONANCE	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1A	1	00-7F	EG ATTACK TIME	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1B	1	00-7F	EG DECAY TIME	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1C	1	00-7F	EG RELEASE TIME	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1D	1	28-58	MW PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		1E	1	00-7F	MW LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		1F	1	00-7F	MW AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		20	1	00-7F	MW LFO PMOD DEPTH	0...127	0A	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		21	1	00-7F	MW LFO FMOD DEPTH	0...127	00	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		22	1	00-7F	MW LFO AMOD DEPTH	0...127	00	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		23	1	28-58	BEND PITCH CONTROL	-24...0...+24[semitones]	42	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		24	1	00-7F	BEND LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		25	1	00-7F	BEND AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		26	1	00-7F	BEND LFO PMOD DEPTH	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		27	1	00-7F	BEND LFO FMOD DEPTH	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		28	1	00-7F	BEND LFO AMOD DEPTH	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X

TOTAL SIZE 29

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Sound Creator] PLAY		[Sound Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	Panel (Right1/ Right2/ Left)
		30	1	00-01	Rcv PITCH BEND	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		31	1	00-01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		34	1	00-01	Rcv POLY AFTER TOUCH (PAT)	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		36	1	00-01	Rcv RPN	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	Panel (Right1/ Right2/ Left)
		37	1	00-01	Rcv NRPN	OFF, ON	XGmode=01, GMmode=00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		38	1	00-01	Rcv MODULATION	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		39	1	00-01	Rcv VOLUME	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3A	1	00-01	Rcv PAN	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3C	1	00-01	Rcv HOLD1	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3E	1	00-01	Rcv SOSTENUTO	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		40	1	00-01	Rcv BANK SELECT	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		41	1	00-7F	SCALE TUNING C	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		42	1	00-7F	SCALE TUNING C#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		43	1	00-7F	SCALE TUNING D	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		44	1	00-7F	SCALE TUNING D#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		45	1	00-7F	SCALE TUNING E	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		46	1	00-7F	SCALE TUNING F	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		47	1	00-7F	SCALE TUNING F#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		48	1	00-7F	SCALE TUNING G	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		49	1	00-7F	SCALE TUNING G#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		4A	1	00-7F	SCALE TUNING A	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		4B	1	00-7F	SCALE TUNING A#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		4C	1	00-7F	SCALE TUNING B	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		4D	1	28-58	CAT PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		4E	1	00-7F	CAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	O	X	X	O	X	O	X	O	X	O	O	X
		4F	1	00-7F	CAT AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00	O	X	O	O	X	X	O	X	O	X	O	X	O	O	X
		51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00	O	X	O	O	X	X	O	X	O	X	O	X	O	O	X
		52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00	O	X	O	O	X	X	O	X	O	X	O	X	O	O	X
		53	1	28-58	PAT PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		61	1	28-58	AC2 PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	O (Except Natural Piano, Organ Flutes)	X	O	O	X	X	O	X	X	X	O	X	O	O	X
		68	1	00-7F	PORTAMENTO TIME	0...127	00	O	X	O	O	X	X	O	X	X	X	O	X	O	O	X
		69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X

TOTAL SIZE 3F

		70	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		71	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72	1	00-7F	EQ BASS GAIN	-12dB...+12dB	40	O	X	O	O	X	O	O	●	●	●	●	X	O	O	O
		73	1	00-7F	EQ TREBLE GAIN	-12dB...+12dB	40	O	X	O	O	X	O	O	●	●	●	●	X	O	O	O

TOTAL SIZE 04

		74	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		75	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		76	1	04-28	EQ BASS FREQUENCY	32...2.0k[Hz]	0C	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		77	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		78	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		79	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7B	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TOTAL SIZE 0C

●: Transmitted via panel operations

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Sound Creator] PLAY		[Sound Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
0A	nn	40	1	00-7F	MW OFFSET LEVEL CONTROL	-100 – 100[%]	40	O	-	O	O	X	X	O	●	O	X	O	X	O	O	O
		41	1	00-7F	BEND OFFSET LEVEL CONTROL	-100 – 100[%]	40	O	-	O	X	X	X	X	X	X	X	O	X	O	O	X
		42	1	00-7F	CAT OFFSET LEVEL CONTROL	-100 – 100[%]	40	O	-	O	O	X	X	O	X	O	X	O	X	O	O	X
		43	1	00-7F	PAT OFFSET LEVEL CONTROL	-100 – 100[%]	40	O	-	O	X	X	X	X	X	X	X	O	X	O	O	X
		44	1	00-7F	AC1 OFFSET LEVEL CONTROL	-100 – 100[%]	40	O	-	O	X	X	X	X	X	X	X	O	X	O	O	X
		45	1	00-7F	AC2 OFFSET LEVEL CONTROL	-100 – 100[%]	40	O	-	O	X	X	X	X	X	X	X	O	X	O	O	X

TOTAL SIZE 06

●: Transmitted via panel operations

nn = PART NUMBER

If there is a Drum Voice assigned to the part, the following parameters are ineffective.
- BANK SELECT LSB
- PORTAMENTO
- MONO/POLY
- SCALE TUNING
- POLY AFTER TOUCH
- PITCH EG

MIDI Parameter Change table (A/D PART)

PSR-S700	X
PSR-S900	O

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
10	0n	00	1	00-01	INPUT GAIN	MIC, LINE	*The A/D PART parameter cannot be reset to its factory setting with XG System On.	X	X	X					X					X	X	X
		01	1	00-7F	BANK SELECT MSB	0...127		X	X	X					X					X	X	X
		02	1	00-7F	BANK SELECT LSB	0...127		X	X	X					X					X	X	X
		03	1	00-7F	PROGRAM NUMBER	1...128		X	X	X					X					X	X	X
		04	1	00-0F, 7F	Rcv CHANNEL	1...16, OFF		X	O	O					O					O	X	X
		05	1		NOT USED			-	-	-					-					-	-	-
		06	1		NOT USED			-	-	-					-					-	-	-
		07	1		NOT USED			-	-	-					-					-	-	-
		08	1		NOT USED			-	-	-					-					-	-	-
		09	1		NOT USED			-	-	-					-					-	-	-
		0A	1		NOT USED			-	-	-					-					-	-	-
		0B	1	00-7F	VOLUME	0...127		X	O	O					●					O	X	X
		0C	1		NOT USED			-	-	-					-					-	-	-
		0D	1		NOT USED			-	-	-					-					-	-	-
		0E	1	01-7F	PAN	L63...C...R63		X	O	O					●					O	X	X
		0F	1		NOT USED			-	-	-					-					-	-	-
		10	1		NOT USED			-	-	-					-					-	-	-
		11	1	00-7F	DRY LEVEL	0...127		X	O	O					●					O	X	X
		12	1	00-7F	CHORUS SEND	0...127		X	O	O					●					O	X	X
		13	1	00-7F	REVERB SEND	0...127		X	O	O					●					O	X	X
		14	1	00-7F	VARIATION SEND	0...127		X	O	O					●					O	X	X

TOTAL SIZE 15

n: A/D Part Number (0)

MIDI Parameter Change table (DRUM SETUP)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/Drum/ Natural/Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
3n	rr	00	1	00-7F	PITCH COARSE	-64...0...+63	40	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		01	1	00-7F	PITCH FINE	-64...0...+63[cent]	40	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		02	1	00-7F	LEVEL	0...127	Depends on the note	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		03	1	00-7F	ALTERNATE GROUP	OFF, 1...127	Depends on the note	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		04	1	00-7F	PAN	RND, L63...C...R63	Depends on the note	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		05	1	00-7F	REVERB SEND	0...127	Depends on the note	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		06	1	00-7F	CHORUS SEND	0...127	Depends on the note	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		07	1	00-7F	VARIATION SEND	0...127	7F	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		09	1	00-01	Rcv NOTE OFF	OFF, ON	Depends on the note	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		0A	1	00-01	Rcv NOTE ON	OFF, ON	01	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		0B	1	00-7F	LOW PASS FILTER CUTOFF FREQUENCY	-64...0...+63	40	O Drum only)	X	O (Available only for song parts)					O					O	X	X
		0C	1	00-7F	LOW PASS FILTER RESONANCE	-64...0...+63	40	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		0D	1	00-7F	EG ATTACK RATE	-64...0...+63	40	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		0E	1	00-7F	EG DECAY1 RATE	-64...0...+63	40	O (Drum only)	X	O (Available only for song parts)					O					O	X	X
		0F	1	00-7F	EG DECAY2 RATE	-64...0...+63	40	O (Drum only)	X	O (Available only for song parts)					O					O	X	X

TOTAL SIZE 10

								[MIDI]												[Song Creator]		
Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception					MIDI Transmission					PLAY	REC	
								Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
		20	1	00-7F	EQ BASS GAIN	-12...+12[dB]	40	X	X	X					X					X	X	X
		21	1	00-7F	EQ TREBLE GAIN	-12...+12[dB]	40	X	X	X					X					X	X	X
		22	1		NOT USED		-	-	-	-					-					-	-	-
		23	1		NOT USED		-	-	-	-					-					-	-	-
		24	1	04-28	EQ BASS FREQUENCY	32...2.0k[Hz]	0C	X	X	X					X					X	X	X
		25	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	X	X	X					X					X	X	X
		26	1		NOT USED		-	-	-	-					-					-	-	-
		27	1		NOT USED		-	-	-	-					-					-	-	-
		28	1		NOT USED		-	-	-	-					-					-	-	-
		29	1		NOT USED		-	-	-	-					-					-	-	-
		2A	1		NOT USED		-	-	-	-					-					-	-	-
		2B	1		NOT USED		-	-	-	-					-					-	-	-
		2C	1		NOT USED		-	-	-	-					-					-	-	-
		2D	1		NOT USED		-	-	-	-					-					-	-	-

TOTAL SIZE 0E

n: Drum Setup Number (0-1)
rr: note number (0D-5B)

In the following cases, the instrument will initialize all Drum Setups.
- XG SYSTEM ON received
- GM SYSTEM ON received
- GM LEVEL2 SYSTEM ON received
- GS RESET received
- DRUM SETUP RESET received (only when in XG mode)

[Note]
When a part to which a Drum Setup is assigned receives a program change, the assigned Drum Setup will be initialized.
If the same Drum Setup is assigned to two or more parts, changes in Drum Setup parameters (including program changes) will apply to all parts to which it is assigned.

System Exclusive Messages (1)

[GM1] ... GM Required Parameter
[GM2] ... GM Level2 Required Parameter

* Not received when Receive System Exclusive Message Parameters is set to off.
* Not transmitted when Transmit System Exclusive Message Parameters is set to off.

System Exclusive Messages (Universal Real Time Messages)

[MIDI] [Song Creator]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission					PLAY	REC
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel operations
Master Volume [GM2]	F0 7F XN 04 01 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000001 01 = Sub-ID #2 = Master Volume 0ssssssss SS = Volume LSB 0ttttttt TT = Volume MSB 11110111 F7 = End of Exclusive	O	X	O (Available for extra parts of a song)					O					O	O	X
Master Fine Tuning [GM2]	F0 7F XN 04 03 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000011 03 = Sub-ID #2 = Master Fine Tuning 0ssssssss SS = Fine Tuning LSB 0ttttttt TT = Fine Tuning MSB 11110111 F7 = End of Exclusive	O	X	O (Available for extra parts of a song)					O					O	X	X
Master Coarse Tuning [GM2]	F0 7F XN 04 04 00 TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000100 04 = Sub-ID #2 = Master Coarse Tuning 00000000 00 0ttttttt TT = Coarse Tuning MSB 11110111 F7 = End of Exclusive	O	X	O (Available for extra parts of a song)					O					O	X	X
Reverb Parameter [GM2]	F0 7F XN 04 05 01 01 01 01 01 PP VV ... F7 11000000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000101 05 = Sub-ID #2 = Global Parameter Control 00000001 01 = Slot path length = 1 00000001 01 = Parameter ID width = 1 00000001 01 = Value width = 1 00000001 01 = Slot path MSB = 1 00000001 01 = Slot path LSB = 1 (Reverb) 0ppppppp PP = Parameter to be controlled. 0vvvvvvv VV = Value for the Parameter. : : 11110111 F7 = End of Exclusive Parameter (pp) — Value (vv) — Display pp=0 Reverb Type — 0...8 — 0: RoomS, 1: RoomM, 2: RoomL, 3: HallM, 4: HallL (default), 8: GM Plate pp=1 Reverb Time — 0...127 — 0...11.0s	O	O	O					O					O	O	X
Chorus Parameter [GM2]	F0 7F XN 04 05 01 01 01 01 02 PP VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00000100 04 = Sub-ID #1 = Device Control Message 00000101 05 = Sub-ID #2 = Global Parameter Control 00000001 01 = Slot path length = 1 00000001 01 = Parameter ID width = 1 00000001 01 = Value width = 1 00000001 01 = Slot path MSB = 1 00000010 02 = Slot path LSB = 2 (Chorus) 0ppppppp PP = Parameter to be controlled. 0vvvvvvv VV = Value for the Parameter : : 11110111 F7 = End of Exclusive Parameter (pp) — Value (vv) — Display pp=0 Chorus Type — 0...5 — 0: GM Chorus1, 1: GM Chorus2, 2: GM Chorus3 (default), 3: GM Chorus4, 4: FB Chorus, 5: GM Flanger pp=1 Mod Rate — 0...127 — 0...15.5Hz pp=2 Mod Depth — 0...127 pp=3 Feedback — 0...127 pp=4 Send to Reverb — 0...127	O	O	O					O					O	O	X
Channel Pressure (Aftertouch) [GM2]	F0 7F XN 09 01 0M PP RR ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1 = Controller Destination Setting 00000001 01 = Sub-ID #2 = Controller Type: 01 (Channel Pressure) 0000mmmm 0M = MIDI Channel (00-0F) 0ppppppp PP = Controlled Parameter 0rrrrrrr RR = Data : : 11110111 F7 = End of Exclusive Make sure to set both the controlled parameter and the range. Parameters not set will be restored to their default values. Control Parameter (pp) — Data (RR) — Description — Default Value pp=00 Pitch Control — 28H–58H — -24...0...+24semitones — 40H pp=01 Filter Cutoff Control — 00H–FH — -9600...0...+9450cents — 40H pp=02 Amplitude Control — 00H–FH — -100...0...+100% — 40H pp=03 LFO Pitch Depth — 00H–FH — 0...127 — 00H pp=04 LFO Filter Depth — 00H–FH — 0...127 — 00H pp=05 LFO Amplitude Depth — 00H–FH — 0...127 — 00H	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X

[MIDI] [Song Creator]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission					PLAY	REC
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel operations
Controller (Control Change) [GM2]	F0 7F XN 09 03 0M CC PP RR ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1 = Controller Destination Setting 00000011 03 = Sub-ID #2 = Controller Type: 03 (Control Change) 0000mmmm 0M = MIDI Channel (00-0F) 0ccccccc CC = Controller Number (01H-1FH, 40H-5FH) 0ppppppp PP = Controlled Parameter 0rrrrrrr RR = Range : : 11110111 F7 = End of Exclusive Make sure to set both the controlled parameter and the range. Parameters not set will be restored to their default values. Control Parameter (pp) / Data (RR) / Description / Default Value pp=00 Pitch Control / 28H~58H / -24...0...+24semitones / 40H pp=01 Filter Cutoff Control / 00H~7FH / -9600...0...+9450cents / 40H pp=02 Amplitude Control / 00H~7FH / -100...0...+100% / 40H pp=03 LFO Pitch Depth / 00H~7FH / 0...127 / 00H pp=04 LFO Filter Depth / 00H~7FH / 0...127 / 00H pp=05 LFO Amplitude Depth / 00H~7FH / 0...127 / 00H	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
Key-Based Instrument Control [GM2]	F0 7F XN 0A 01 0M KK CC VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F, whichever is received. X = ignored 00001010 0A = Sub-ID #1=Key-Based Instrument Control 00000001 01 = Sub-ID #2=Controller 0000mmmm 0M = MIDI Channel (00-0F) 0kkkkkkk KK = Key Number 0ccccccc CC = Controller Number 0vvvvvvv VV = Value ... ... 11110111 F7 = End of Exclusive Make sure to set both the controlled number and the value. Control Number (CC) / Value (VV) / Description / Default value CC=07H Volume / 00H~7FH / -100...0...+100% / 40H CC=0AH Pan / 00H~7FH (absolute) / L63...C...R63 / (Preset value) CC=5BH Reverb Send Level / 00H~7FH (absolute) / 0...Max / (Preset value) CC=5DH Chorus Send Level / 00H~7FH (absolute) / 0...Max / (Preset value)	O (Drum only)	X	O	X	X	X	X	X	X	X	O	X	O	X	X

System Exclusive Messages (Universal Non-Real Time Messages)

[MIDI] [Song Creator]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission					PLAY	REC
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel operations
GM1 System On [GM1] [GM2]	F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000001 01 = Sub-ID #2 = General MIDI On 11110111 F7 = End of Exclusive	O	-			O					O			O	X	O
GM2 System On [GM2]	F0 7E XN 09 03 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000011 03 = Sub-ID #2=General MIDI2 On 11110111 F7 = End of Exclusive	O	-			O					O			O	X	X
General MIDI System Off [GM1] [GM2]	F0 7E XN 09 02 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000010 02 = Sub-ID #2 = General MIDI Off 11110111 F7 = End of Exclusive	O	-			O					O			O	X	X
Scale/ Octave Tuning [GM2]	F0 7E XN 08 08 JJ GG MM SS ... F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N=0-F, whichever is received. X = ignored 00001000 08 = Sub-ID #1=MIDI Tuning Standard 00001000 08 = Sub-ID #2=scale/octave tuning 1byte form 0jjjjjjj JJ = Channel/option byte1 bits 0 to 1 = channel 15 to 16 bits 2 to 6 = reserved 0ggggggg GG = Channel byte2 - bits0 to 6 = channel 8 to 14 0mmmmmmm MM = Channel byte2 - bits0 to 6 = channel 1 to 7 0sssssss SS = 12byte tuning offset of 12 semitones from C to B 00H means -64cent 40H means 0cent 7FH means +63cent ... ... 11110111 F7 = End of Exclusive	O	X			O (Available for song parts)					O			O	X	X

System Exclusive Messages (2)

* Not received when Receive System Exclusive Message Parameters is set to off.
* Not transmitted when Transmit System Exclusive Message Parameters is set to off.

System Exclusive Messages (Style)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
Section Control	F0 43 7E 00 ss dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000000 00 = 0sssssss ss = Switch No. 00H INTRO A 01H INTRO B 02H INTRO C 03H INTRO D 08H MAIN A 09H MAIN B 0AH MAIN C 0BH MAIN D 10H FILL IN AA 11H FILL IN BB 12H FILL IN CC 13H FILL IN DD 18H BREAK FILL 20H ENDING A 21H ENDING B 22H ENDING C 23H ENDING D 0ddddddd dd = Switch On/Off 00H (Off) 7FH (On) 11110111 F7 = End of Exclusive	-	-			O					●		
Tempo Control	F0 43 7E 01 t4 t3 t2 t1 F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000001 01 = 0ttttttt t4 = tempo4 0ttttttt t3 = tempo3 0ttttttt t2 = tempo2 0ttttttt t1 = tempo1 11110111	-	-			O					●		
Chord Control	F0 43 7E tt d1 d2 d3 d4 F7 Type1 (tt=02) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000010 02 = type 1 0ddddddd d1 = chord root (cr) 0ddddddd d2 = chord type (ct) 0ddddddd d3 = bass note (bn) 0ddddddd d4 = bass type (bt) 11110111 F7 = End of Exclusive cr: Chord Root 0fffnnnn fff: b or #, nnnn: note (root) 0000nnnn 0n bbb 0001nnnn 1n bb 0010nnnn 2n b 0011nnnn 3n 0100nnnn 4n # 0101nnnn 5n ## 0110nnnn 6n ### 0fff0111 x7 B 0fff0000 x0 reserved 0fff0001 x1 C 0fff0010 x2 D natural 0fff0011 x3 E 0fff0100 x4 F 0fff0101 x5 G 0fff0110 x6 A ct : Chord Type 0 - 34, 127 00000000 00 0 Maj 00000001 01 1 Maj6 00000010 02 2 Maj7 00000011 03 3 Maj7(#11) 00000100 04 4 Maj(9) 00000101 05 5 Maj7(9) 00000110 06 6 Maj6(9) 00000111 07 7 aug 00001000 08 8 min 00001001 09 9 min6 00001010 0A 10 min7 00001011 0B 11 min7b5 00001100 0C 12 min(9) 00001101 0D 13 min7(9) 00001110 0E 14 min7(11) 00001111 0F 15 minMaj7 00010000 10 16 minMaj7(9) 00010001 11 17 dim 00010010 12 18 dim7 00010011 13 19 7th 00010100 14 20 7sus4 00010101 15 21 7b5 00010110 16 22 7(9) 00010111 17 23 7(#11) 00011000 18 24 7(13) 00011001 19 25 7(b9) 00011010 1A 26 7 b13) 00011011 1B 27 7(#9) 00011100 1C 28 Maj7aug 00011101 1D 29 7aug 00011110 1E 30 1+8 00011111 1F 31 1+5 00100000 20 32 sus4 00100001 21 33 1+2+5 00100010 22 34 cc bn: On Bass Note — Same as Chord root / 127: No bass chord bt: Bass Chord — Same as Chord type / 127: No bass chord * Not received when Chord System Exclusive Message Parameters is set to off. * Not received when Transmit Chord System Exclusive Message Parameters is set to off.	-	-			O					●		
	Type2 (tt=03) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000011 03 = type 2 0ddddddd dd = note1 0ddddddd dd = note2 0ddddddd dd = note3 . . . 0ddddddd dd = note10 11110111 F7 = End of Exclusive	-	-			O					X		

●: Transmitted via panel operations

System Exclusive Messages (XG)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
XG Parameter Changes	F0 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 0lllllll ll = Address Low 0ddddddd dd = Data : : 11110111 F7 = End of Exclusive	* Refer to XG Parameter Change Table.		O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				
XG Bulk Dump	F0 43 0n 4C aa bb hh mm ll dd ... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0000nnnn 0n = Device Number n = always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0aaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 0lllllll ll = Address Low 0ddddddd dd = Data : : 0ddddddd dd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive	* Refer to XG Parameter Change Table.		O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				
XG Parameter Request	F0 43 3n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nnnn 3n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 0lllllll ll = Address Low 11110111 F7 = End of Exclusive	-	-	O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				
XG Dump Request	F0 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 0lllllll ll = Address Low 11110111 F7 = End of Exclusive	-	-	O * Refer to XG Parameter Change Table.					O ** Refer to XG Parameter Change Table.				

System Exclusive Messages (Clavinova compliance)

11110000 F0 = Exclusive status
01000011 43 = YAMAHA ID
01110011 73 = Clavinova ID
: :
11110111 F7 = End of Exclusive

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
Internal Clock	F0 43 73 01 02 F7 00000001 01 = Model ID (Clavinova common ID) 00000010 02 = Internal Clock Substatus	-	-			O					X		
External Clock	F0 43 73 01 03 F7 00000001 01 = Model ID (Clavinova common ID) 00000011 03 = External Clock Substatus	-	-			O					X		
Organ Flutes data Bulk Dump	F0 43 73 01 06 0B 00 00 01 06 0n [Bulk Data] sum 01H Model ID (Clavinova common ID) 06H Bulk ID 0BH Bulk No. (Organ Flutes data Bulk Dump) 00H, 00H, 01H, 06H Data Length:16bytes 1st Channel No. 0nH 2nd Footage [1'] 00 - 08H 3rd [1 1/3'] 00 - 08H 4th [1 3/5'] 00 - 08H 5th [2'] 00 - 08H 6th [2 2/3'] 00 - 08H 7th [4'] 00 - 08H 8th [5 1/3'] 00 - 08H 9th [8'] 00 - 08H 10th [16'] 00 - 08H 11th [Attack 2'] 00 - 08H 12th [Attack 2 2/3'] 00 - 08H 13th [Attack 4'] 00 - 08H 14th Settings [Attack Length] 00 - 08H 15th [Response] 00 - 08H 16th [Attack Mode] 00 - 01H 00H: Each, 01H: First 17th [Wave Variation] 00 - 01H 00H: Sine, 01H: Vintage 18th [Volume] 01 - 09H 19th [aux] 00H 20th [aux] 00H 21th [aux] 00H 22th [aux] 00H sum Check Sum = 0-sum (BULK DATA)	O (Organ Flute)	X	O	O	X	X	O	●	X	X	O	X

●: Transmitted via panel operations

System Exclusive Messages (XG)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
XG Parameter Changes	F0 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddddd dd = Data : : 11110111 F7 = End of Exclusive	* Refer to XG Parameter Change Table.		O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				
XG Bulk Dump	F0 43 0n 4C aa bb hh mm ll dd ... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0000nnnn 0n = Device Number n = always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0aaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddddd dd = Data : : 0ddddddd dd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive	* Refer to XG Parameter Change Table.		O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				
XG Parameter Request	F0 43 3n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nnnn 3n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				
XG Dump Request	F0 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	O * Refer to XG Parameter Change Table.					O ** Refer to XG Parameter Change Table.				

System Exclusive Messages (Clavinova compliance)

11110000 F0 = Exclusive status
01000011 43 = YAMAHA ID
01110011 73 = Clavinova ID
: :
11110111 F7 = End of Exclusive

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
Internal Clock	F0 43 73 01 02 F7 00000001 01 = Model ID (Clavinova common ID) 00000010 02 = Internal Clock Substatus	-	-			O					X		
External Clock	F0 43 73 01 03 F7 00000001 01 = Model ID (Clavinova common ID) 00000011 03 = External Clock Substatus	-	-			O					X		
Organ Flutes data Bulk Dump	F0 43 73 01 06 0B 00 00 01 06 0n [Bulk Data] sum 01H Model ID (Clavinova common ID) 06H Bulk ID 0BH Bulk No. (Organ Flutes data Bulk Dump) 00H, 00H, 01H, 06H Data Length:16bytes 1st Channel No. 0nH 2nd Footage [1'] 00 - 08H 3rd [1 1/3'] 00 - 08H 4th [1 3/5'] 00 - 08H 5th [2'] 00 - 08H 6th [2 2/3'] 00 - 08H 7th [4'] 00 - 08H 8th [5 1/3'] 00 - 08H 9th [8'] 00 - 08H 10th [16'] 00 - 08H 11th [Attack 2'] 00 - 08H 12th [Attack 2 2/3'] 00 - 08H 13th [Attack 4'] 00 - 08H 14th Settings [Attack Length] 00 - 08H 15th [Response] 00 - 08H 16th [Attack Mode] 00 - 01H 00H: Each, 01H: First 17th [Wave Variation] 00 - 01H 00H: Sine, 01H: Vintage 18th [Volume] 01 - 09H 19th [aux] 00H 20th [aux] 00H 21th [aux] 00H 22th [aux] 00H sum Check Sum = 0-sum (BULK DATA)	O (Organ Flute)	X	O	O	X	X	O	●	X	X	O	X

●: Transmitted via panel operations

System Exclusive Messages Special Operators (Vocal Harmony Additional Parameters)

Vocal Harmony

PSR-S700	X
PSR-S900	O

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
Vocal Harmony Pitch to Note ON/OFF	F0 43 73 01 11 0n 50 00 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00000000 00 = Pitch to Note Parameter No. 0ddddddd dd = data (00H: Off, 01H: On) 11110111 F7 = End of Exclusive	X	O			O						●		
Vocal Harmony Pitch to Note Part	F0 43 73 01 11 0n 50 01 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00000001 01 = Pitch to Note Part Parameter No. 0ddddddd dd = data 00H: Right1 01H: Right2 02H: Left 03H: (not used) 04H: Upper 11110111 F7=End of Exclusive	X	O			O						●		
Vocal Harmony Vocoder Part (Harmony Part (Panel))	F0 43 73 01 11 0n 50 10 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00010000 10 = Vocoder Part Parameter No. 0ddddddd dd = data 00H: Off 01H: Upper 02H: Lower 11110111 F7 = End of Exclusive	X	O			O						●		

●: Transmitted via panel operations

System Exclusive Messages (Others)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
MIDI Master Tuning	F0 43 1n 27 30 00 00 0m 0l cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n n= always 0 (when transmit), n=0-F (when receive) 00100111 27 = Model ID of TG100 00110000 30 = Address High 00000000 00 = Address Mid 00000000 00 = Address Low 0000mmmm 0m= Master Tune MSB 0000llll 0l = Master Tune LSB 0ccccccc cc = don't care 11110111 F7 = End of Exclusive	O	O			O						X		

Song System Exclusive Message List

Data Format	Parameter	Description	Note
Guide			
F0 43 73 01 1F 00 cc dd F7	Guide Mode	ccH = Part Select No 00H (TRACK1=ON, TRACK2=ON) 01H (TRACK1=OFF, TRACK2=ON) 02H (TRACK1=ON, TRACK2=OFF) 03H (TRACK1=OFF, TRACK2=OFF) ddH = Mode 00H=Guide OFF 01H=Follow Lights 02H=Any Key 03H=Karao-Key 04H=Vocal CueTIME (Vocal Cue Time is not available on the PSR-S700.)	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
Score			
F0 43 73 01 50 12 00 00 dd F7	Left Part indication On/Off	00H: OFF, 7FH: ON	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
F0 43 73 01 50 12 00 01 dd F7	Right Part indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 02 dd F7	Lyrics indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 03 dd F7	Chord indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 04 dd F7	N.Name indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 05 dd F7	Size designation	00H: SMALL, 02H: LARGE	
F0 43 73 01 50 12 00 06 dd F7	Left Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
F0 43 73 01 50 12 00 07 dd F7	Right Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
F0 43 73 01 50 12 00 08 dd F7	Quantize triplet On/Off	00H: Triplet OFF, 7FH: Triplet ON	
F0 43 73 01 50 12 00 09 dd F7	Quantize	00H: quarter, 01H: eighth, 02H: sixteenth, 03H: thirty-second	
F0 43 73 01 50 12 00 0A dd F7	NoteName	00H: ABC, 01H: FixedDo, 02H: MovableDo	
F0 43 73 01 50 12 00 0B dd F7	Color Note	00H: OFF, 7FH: ON	
Style			
F0 43 73 01 51 00 00 00 03 10 00 dd F7	STYLE SPLIT POINT	dd=STYLE SPLIT POINT (Note Number)	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
F0 43 73 01 51 05 00 03 04 00 00 dd dd F7	STYLE NUMBER	dd dd = Style No.	Entered when recording.
F0 43 7E 00 ss dd F7	Section Control	Refer to the MIDI Data Format.	Entered when recording.

Song Meta Event List

Data Format	Parameter	Description	Note
FF 05 len [Data]	Lyrics	len = Data length, [Data] = Lyrics Data	
FF 51 03 t1 t2 t3	Set Tempo	t1 t2 t3 = Tempo value B7 1B 00~01 D4 C0 (Tempo 5~500)	Entered when recording.
FF 58 04 nn dd cc bb	Beat	nn = Numerator dd = Denominator (2n) cc = MIDI clock per metronome click bb = Number of thirty-second notes in MIDI quarter note	Entered when recording.
FF 59 02 sf mi	Key Signature	sf = -7 – 7 mi = 0: Major key, 1: Minor key	Entered from the [Score] > SETUP display.
YAMAHA META EVENT			
FF 7F 06 43 73 0A 00 07 dd	Score Start Bar	ddH: Start form this measure dd = -100 – 1, 1 – 100	Same as ScBar entered from the [SONG CREATOR] > SYS/EX. display.
FF 7F len 43 73 0D 01 [Data]	Keyboard Voice	Voice settings for RIGHT1, 2, and LEFT	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
YAMAHA XF META EVENT			
FF 7F 07 43 7B 01 cr ct bn bt	Chord Name	Refer to “Chord Control” in the MIDI Data Format (System Exclusive Messages).	Entered when recording.
FF 7F 05 43 7B 03 20 08	Phrase Mark	Used as a marker for each phrase when executing Phrase Mark repeat playback.	Used when performing the Phrase Mark repeat playback.
FF 7F 04 43 7B 04 dd	Phrase Max	Maximum Phrase Number.	
FF 7F 05 43 7B 0C rr ll	Guide Track Flag	Sets the TRACK 1 and TRACK 2 parameters on the [FUNCTION] > [SONG SETTING] display. rr = TRACK1 (0: OFF, 1: 1CH~16: 16CH) ll = TRACK2 (0: OFF, 1: 1CH~16: 16CH)	Entered when recording.