KORG iS40/iS50 Operating System Release 3.0 (970956)

Introduction

The KORG iS40 and iS50 Workstations can be constantly improved and updated with new functions. The new version of the operating system may already be included in your instrument. If not, you can load it from a 2DD (double density) or 2HD (high density) disk.

To check the version of the operating system contained in your instrument turn on the instrument while holding the DISK/GLOBAL button pressed. The display shows the version number of the operating system (6-digit number). Check that the number corresponds with the current version (970956) or with a previous one.

If your instrument includes an older version, you can contact your dealer to request the disks of the new version, or download it from the Internet site www.korg.it.

Once you have downloaded the operating system follow the instructions contained in the "Loading the operating system" section to prepare the iS40/iS50 system disks and load the system into the instrument.

Functions of the 3.0 version not included in the Owner's Manual

In Arrangement Play mode:

• Arrangement and Program Preview
• Recall Arrangement
• Drum Mapping
• Kick&Snare Designation
• Master Transpose can be memorized in the arrangements and Keyboard Sets
• Programmable status of the Upper 1, Upper 2 and Lower tracks; can be memorized in the arrangements and Keyboard Sets
• Manual Bass

In Song Play mode:

• Lyrics
• Program Preview
• Arabic scale recognition
• Mute Keyboard

In Disk/Global mode:

• Loading arrangements in A and B banks
• Compatibility with KORG i30 data

• Improved compatibility with data from the other i-Series instruments
• Erase All Style
• Speaker Off
• Global Protect
• Midi Setup
• Echo Back
• MIDI IN Octave
• Separated MIDI channels for Upper 2 and Lower tracks
• Master Transpose Lock
• New pedal assignable functions
• Trigger Note On/Off
• 14 USER scales
• Separate joystick programming for the Upper 2 and Lower tracks

New page numbering

Due to the insertion of new functions in Rel. 3.0 of the operating system, two new pages of parameters are inserted in the Arrangement Play mode (the page number is shown on the display on the right). The numbering of the parameter pages differs in part from the Owner's Manual. In the Owner's Manual:

Page	Number		Number
Drum Mapping	-		6
Kick & Snare Designation	-		7
Keyboard scale	6		8
Effect selection	7		9
Effect modulation	8	becomes	10
Effect configuration	9		11
Effect 1 parameters	10		12
Effect 2 parameters	11		13
Rename Arrangement	12		14
Write Arrangement	13		15

New parameter pages are inserted in the Disk/Global mode. In the Owner's Manual:

Page	Number		Number
MIDI Setting	-		3
MIDI General Parameters	3		4
Echo Back / MIDI IN Oct.	-		5
MIDI (1) Channels	4		6
MIDI (3) Channels	6		7
MIDI (2) Channels	5		8
MIDI Filter	7		9
Master Transpose Lock	-		10
Assignable Pedal	8		11
Lower Memory/Velocity Curve	10	becomes	13
Chord Recognition Mode / Trigger Mode	11		14
Auto Chord Scanning	12		15
Main SCale	13		16
Sub Scale	14		17
User Scale	15		18
MIDI Data Dump	16		19
Joystick Programming	17		20
Write Global	18		21
Calibration	19		22

The evolution of the operating system

The iS40/iS50 operating system has been constantly updated since the instrument was first launched on the market. The following paragraphs illustrate the new functions introduced by the various releases, that are not included in the manual supplied with the instrument.

Release 1.5 (970934)
- Lyrics function, compatible with SMF in M-Live and Solton format

Release 2.0 (970941) and 2.0.2 (970943)
- Compatibility with SMF in Tune1000 and compatible formats (Roland Edirol, GEM GMX, KAR, HitBit, Yamaha XF) added to the Lyrics function
- Recall Arrangement function
- Drum Mapping function
- Kick&Snare Designation function
- Speaker Off function
- Erase All Style function
- Compatibility with KORG i30 data

Release 2.5 (970945)
- Arab scale recognition
- Lyrics and chords maintained when saving the songs in SMF format
- SMF (song) chords displayed in XF format
- Arrangement loading in the A and B banks

Release 3.0 (970956)
In Arrangement Play mode:
- Arrangement and Program Preview
- Master Transpose memorization in the arrangements and Keyboard Sets
- Programming and memorization of the Upper 1, Upper 2 and Lower track status in the arrangements and Keyboard Sets
- Manual Bass
In Song Play mode:
- Program Preview
- Mute Keyboard
In Disk/Global mode:
- Higher compatibility with data of other i-Series instruments.
- Global Protect
- Midi Setup
- Echo Back
- MIDI IN Octave
- Separate MIDI channels for the Upper 2 and Lower tracks
- Master Transpose Lock
- New pedal-assignable functions
- Trigger Note On/Off
- 14 USER scales
- Separate joystick programming for the Upper 2 and Lower tracks

Loading the operating system

Preparing an iS40/iS50 operating system disk

An iS40/iS50 operating system disk must be prepared if you have downloaded the operating system from www.korg.it. The operating system is contained in a compressed directory named "IS40-30.sit" or "IS40-30.ZIP".

Extract the files contained in the compressed directory ("IS40-30.sit" or "IS40-30.ZIP"). The system creates a folder named "IS40-30", which contains two files: "970956.IS" (the operating system) and "iS40_30-ENG.PDF" (this document is in Adobe Acrobat format. Acrobat can be downloaded from the Adobe site www.adobe.com).

Copy the operating system file "970956.IS" in a Dos/Windows or iS40/iS50 disk.

Note: Macintosh users can prepare disks in Dos/Windows format only if their computer is provided with utilities such as PC-Exchange, DOS-Mounter or AccessPC. The latest Macintosh computers are provided with PC-Exchange. Refer to Mac documentation and Help.

Saving the contents of the iS40/iS50 memory

Loading the new operating system will not delete the data contained in the instrument memory (arrangements, styles, programs). In any case, if the memory contains new data that differ from the KORG default data, we recommend to save the contents on a disk, in order to avoid the risk of losing data because of problems when loading the operating system.

The KORG default data are also contained in the Accessory Disk disk supplied with the most recent instruments. If necessary, you can download them from www.korg.it.

1. Insert a formatted disk into the disk drive.
2. Press DISK/GLOBAL to access the Disk/Global mode.
3. Select <SAVE> and press ENTER/YES.
4. Select <ALL> and press ENTER/YES.
5. Name the new file (the system automatically assigns the name NEW_FILE that can be modified by the user).
6. Press ENTER/YES to confirm. At the end, remove the disk and keep it in a safe place.

Loading the new operating system

1. Insert the operating system disk into the disk drive.
2. Turn on the instrument, while holding the REC/WRITE and EXIT/NO buttons pressed.
3. The display shows the operating system identification number (970956) and loading automatically starts.
4. The message "Update Completed - Power Off" appears when loading is completed.
5. Turn off the instrument and turn it on again.
6. If you wish, you can set the "Master Transpose Lock" parameter on ON (see page 8 in this manual).

New functions in the Arrangement Play mode

Arrangement Preview

The Arrangement Preview function allows for viewing the name of the arrangement before selecting it. In the Arrangement Play mode:

1. Press one of the ARRANGEMENT BANK buttons.
2. Enter the tens number (this operation can be skipped).
3. Scroll the arrangement list with the TEMPO/VALUE buttons.
4. Press ENTER/YES to select the desired arrangement.

Program Preview

The Program Preview function allows for viewing the name of the program before selecting it. In the Arrangement Play (or Song Play) mode:

1. Press one of the PROGRAM BANK buttons.
2. Enter the tens number (this operation can be skipped).
3. Scroll the program list with the TEMPO/VALUE buttons.
4. Press ENTER/YES to select the desired program.

Recall Arrangement

In the main page (Page 1) of the Arrangement Play mode, while the accompaniment is playing, press EXIT/NO to recall the programming of the keyboard tracks saved in the Arrangement.

For instance, if a Keyboard Set is selected, if a different Program is selected, or if a track is transposed, the keyboard tracks will play differently from what originally programmed in the Arrangement. To recall the original Arrangement programming, press EXIT/NO while the accompaniment is playing.

When in another page, press EXIT/NO to go back to the main page and press EXIT/NO again to recall the programming saved in the Arrangement.

Note: The Recall Arrangement function only works while the accompaniment is playing. If the accompaniment is not playing, the pressing of EXIT/NO in Page 1 of Arrangement Play has no effect.

Drum Mapping

This function allows for modifying the drums part of the Style with only one action. The Drum Mapping replaces some instruments in the drums kit, without changing the notes.

The new function is on Page 6 of the Arrangement Play mode. A different Drum Map can be chosen for each Style Variation. There are eight Drum Maps (1…8). Drum Map 5 corresponds to the original pattern programming.

The settings are only valid for the selected Arrangement and can be memorized by saving the modifications in a new USER Arrangement.
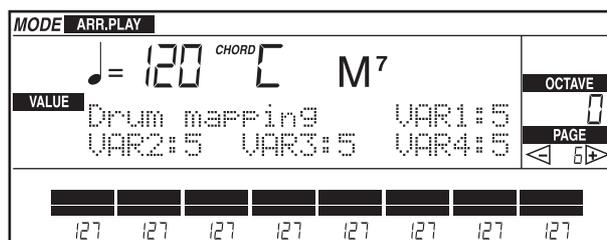
Kick & Snare Designation

This function allows for replacing the programmed Bass Drum (Kick) and the Snare Drum (Snare) with a different Bass Drum or Snare Drum, belonging to the same drum kit, with only one action.

The new function is on Page 7 of the Arrangement Play mode. Kick and Snare are independently programmed. There are four Designations (A…D). Designation A corresponds to the original pattern programming.

The settings are only valid for the selected Arrangement and can be memorized by saving the modifications in a new USER Arrangement.
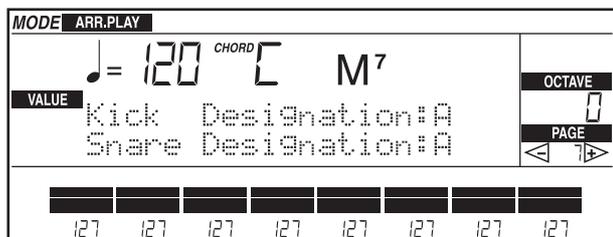
Memorizing the Master Transpose in the arrangements or Keyboard Sets

The Master Transpose can be memorised in the arrangement or Keyboard Set (see "Write Arrangement" or "Write Keyboard Sets" functions in the Owner's Manual).

When selecting an arrangement or Keyboard Set, the Master Transpose can change according to the status of the "Master Transpose Lock" parameter (see explanation on page 8 in this manual)

Programming the status of the Upper 1, Upper 2 and Lower tracks

The status of the Upper 1, Upper 2 and Lower tracks can be programmed, just like the tracks of the automatic accompaniment, on page 4 in the Arrangement Play mode ("Programming the tracks (2)"). The track status can be memorized in the arrangement or Keyboard Set.

OFF	The track does not play.
INT	The track plays the iS40/iS50 programs, but does not send any data to the MIDI OUT.
EXT	The track sends data to the MIDI OUT, but does not play the iS40/iS50 programs.
BOTH	The track plays the iS40/iS50 programs and sends data to the MIDI OUT.

New functions in the Song Play mode

Lyrics Function

The iS40/iS50 can read the lyrics of the SMF (Standard Midi File) in M-live (MidiSoft), Solton, Tune1000 and compatible formats (Roland Edirol, GEM GMX, KAR, HitBit, Yamaha XF). The lyrics are automatically displayed by activating the Song Play mode.

The iS40/iS50 can also view the chords symbols contained in the SMF in M-live (MidiSoft), Solton, GMX, XF format.

1. Press SONG PLAY to access the Song Play mode. The SONG PLAY and REC/WRITE LED's turn on.

   Note: In Song Play mode the REC/WRITE LED automatically turns on to indicate the Lyrics mode used to automatically view the SMF lyrics. The LED off indicates the Play mode (standard information).

2. Select the Song to be played using the TEMPO/VALUE buttons (or the dial), and press START/STOP (see Owner's Manual). If the selected Song is in M-live (MidiSoft), Solton, or Tune1000 and compatible formats and if it contains lyrics, the lyrics are shown in the display in time with the music. In case of no lyrics, the display shows the standard information.

3. If the Song is in Tune1000 or compatible formats (Edirol, GMX, KAR, HitBit, XF), the lyrics can be displayed in two ways: Lyrics 1 (the whole line is immediately shown on the display), and Lyrics 2 (the words appear one at a time, in time with the music). Press REC/WRITE to switch to Lyrics 2.

4. Press REC/WRITE again to stop displaying the lyrics (Lyrics mode) and display the standard information (Play mode). The REC/WRITE LED turns off.

5. Press REC/WRITE again to display the lyrics (Lyrics 1 mode). The REC/WRITE LED turns on.

6. To stop the Song, press START/STOP.

Program Preview

The Program Preview function allows for viewing the name of the program before selecting it. In the Song Play (or Arrangement Play) mode:

1. Press one of the PROGRAM BANK buttons.

2. Enter the tens number (this operation can be skipped).

3. Scroll the program list with the TEMPO/VALUE buttons.

4. Press ENTER/YES to select the desired program.

Note: The Program Preview function does not work on Page 2 in the Song Play mode.

Arabic scale recognition

The new version of the operating system recognizes the exclusive system message in GS format that enables the selection of Arabic scales in the Song Play mode. The scale will be correctly selected when reading an SMF in GS format with scale changes with the iS40/iS50.

The Mute Keyboard function

The keyboard can be deactivated in the Song Play mode.

- To deactivate the keyboard, turn the LED of the SYNCHRO START/STOP button on.
- To activate the keyboard, turn the LED of the SYNCHRO START/STOP BUTTON off.

New functions in the Disk/Global mode

Loading arrangements in the A and B banks

The A and B arrangement banks are reserved to factory-set arrangements, while the USER bank is reserved to the arrangements loaded from disk.

However, you can load different arrangements in the A and B banks to personalize the basic material of the iS40/iS50.

Warning: This operation must only be performed by expert users, since it modifies the basic material of the instrument. In case of problems after you have performed the operation, you can retrieve the original arrangements from www.korg.it. Or you can reload all the original data from the disk supplied with the instrument.

Warning: Do not load arrangements using USER styles in the A and B banks. If other styles are loaded from disk, the arrangements may no longer work properly.

1. Create a personalised arrangement bank in the USER bank.
2. Save the contents of the memory in a new file. Press DISK/GLOBAL to enter the Disk/Global mode.
3. Move the cursor to <SAVE> and press ENTER/YES.
4. Move the cursor to <ARR> and press ENTER/YES.
5. Give a name to the file and confirm with ENTER/YES.
6. At the end press EXIT/NO to go back to page 1 in the Disk/Global mode.
7. Move the cursor to <LOAD> and press ENTER/YES.
8. Select <ALL> and press ENTER/YES.
9. Select <ARR> and press ENTER/YES.
10. Select the file in which the arrangements have been saved with the TEMPO/VALUE buttons (or the dial).
11. If you wish to load the arrangements in the A bank, hold the A button of the ARRANGEMENT section pressed and press ENTER/YES. To load the arrangements in the B bank, hold the B button of the ARRANGEMENT section pressed and press ENTER/YES.

Compatibility with Korg i30 data

In spite of the differences between the two instruments, the iS40/iS50 can load data from Korg i30 disks. You can load Program, Arrangement, Style. There are however some limitations which are due to the differences between the two instruments. When loading has been completed, it may be necessary to adjust the loaded data.

Disk operations that can be used with Korg i30 disks
- Load All Program, Load All Arrangement
- Load One Program, Load One Arrangement, Load One Style

Disk operations that cannot be used with Korg i30 disks
- Load All Data (Load>All>All), Load All Backing Sequence
- Load One Backing Sequence
- Load Global

Moreover, the i30 songs saved in "proprietary" format (.SNG) are not saved, either in the Song Play or Song Edit mode.

Limitations when loading Programs
- Only the first i30 64 Programs will be loaded (i30 and i40 Programs F11-88).
- Only the first i30 16 Styles will be loaded (C11-18, C21-28). If you select an Arrangement which uses a Style with a number higher than C28 in the i30, the display will show the correct Style number, but with the **InvalidStyle** name. The Style will not play. If you press TEMPO/VALUE [-] the USER Styles will be selected.
- Since the i30 has four effect processors for the internal tone generation, while the iS40/iS50 has two, the effects assigned to the accompaniment tracks in the i30 will be assigned to all the tracks in the iS40/iS50.

Loading data from a Korg i30 disk

Following is the procedure used to load all the programs (Load All Program) from a Korg i30 disk. You can use the same procedure to load other types of data (arrangements, styles), selecting a different type of data.

1. Insert the Korg i30 disk into the disk drive.
2. Press the DISK/GLOBAL button.
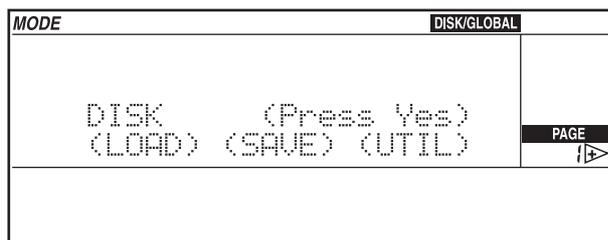
3. The <LOAD> item is selected by default. Press ENTER/YES to access the Load page.
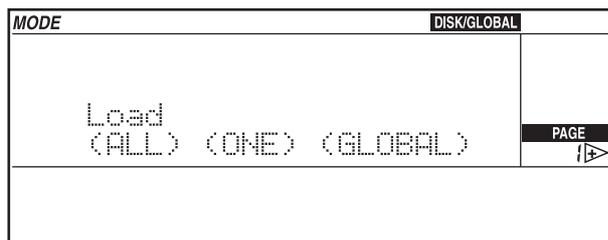
4. Select the desired Load operation. Always keep in mind the limitations described in the previous paragraphs.
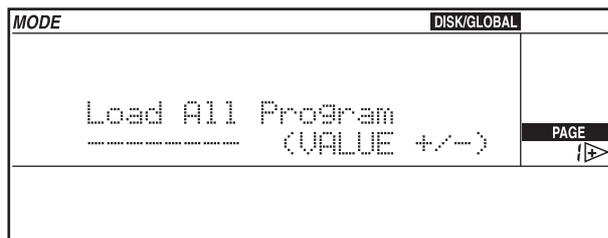
5. Use the TEMPO/VALUE buttons (or the DIAL) to scroll the list of directories contained in the disk.

**Note:** In the i30 disk the directories containing the files - and not the individual files - will be displayed. The directories are marked with a star (*) positioned after the name.

```
MODE                                    DISK/GLOBAL


          Load All Program
          FILENAME  *       (Yes)        PAGE
                                        1▷


```
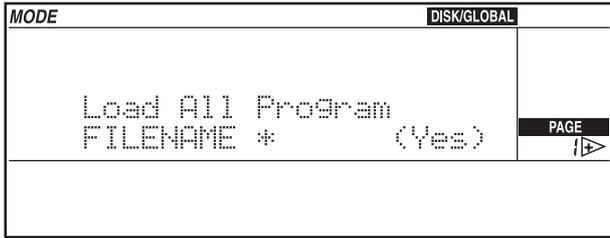
6. As soon the display shows the directory containing the file you wish to load, press ENTER/YES to open the directory.

```
MODE                                    DISK/GLOBAL


          Load All Program
          ↑ Dir up         (Yes)        PAGE
                                        1▷


```
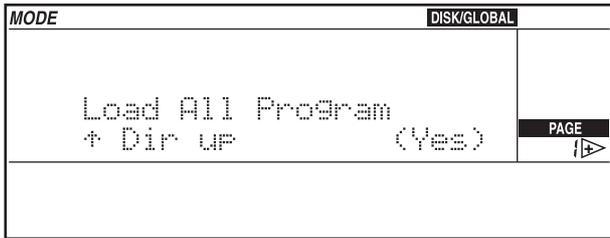
7. When the directory has been opened, the "Dir up" (= Directory up) command will appear. If you press ENTER/YES, the directory will close and the higher level in the disk will be accessed.

8. If you wish to choose a file in the directory you have opened, use the TEMPO/VALUE buttons (or the DIAL) to scroll the files contained in the directory.

```
MODE                                    DISK/GLOBAL


          Load All Program
          FILENAME         (Yes)        PAGE
                                        1▷


```
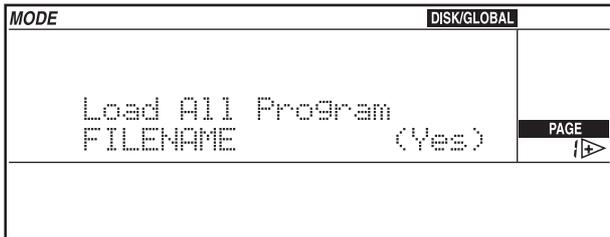
9. Once you have identified the file containing the desired Programs, press ENTER/YES twice to load the Programs contained in the file in memory.

   Warning: The new data will erase the data of the same type which are already contained in the USER areas. Before loading new data, save the data contained in memory on disk, if you do not have a backup copy and you do not want to lose it.

Compatibility with i3, i4S, iX300, and i5S/M data

The iS40/iS50 can load data from KORG i3, i4S, i5S, i5M, and iX300 disks and use the styles and arrangements of these instruments. Data is read in the same way as any other disk in the iS40/iS50 native format.

However, programs, songs in proprietary format (.SNG), backing sequences and Global cannot be read from these instruments (due to the great differences with the samples contained in the ROM).

Compatibility with iS35, iS50B and i40M data

The iS40/iS50 is directly compatible with all iS35, iS50B and i40M data. The disks of each instrument can be directly read by another instrument in the same series.

The only limitations are:

• The absence of the Keyboard Sets in the iS50 and iS50B. The Keyboard Sets saved by the other instruments will not be read by the iS50 and iS50B.

• The absence of the Vocal/Guitar section in the iS40, iS50, and iS50B. The settings of this section will not be read by the other instruments.

Erase All Style

The Erase Style page of the Disk mode (Utility) now includes the All option used to erase all Styles stored in the memory.

1. Press the DISK/GLOBAL button.
2. Place the cursor on <UTIL> (UTILITY) and press ENTER/YES to access the Utility page.
3. Place the cursor on <E.STY> (ERASE STYLE) and press ENTER/YES to access the Erase Style page.
4. To select the Style to be erased, press TEMPO/VALUE [-] (or completely turn the dial counterclockwise) to select the All option.
5. Press ENTER/YES twice to erase all memorized Styles.

Speaker Off

This function allows for deactivating the built-in loudspeakers. The new function is on Page 2 of the Disk/Global mode. ON indicates that the loudspeakers are working, while OFF indicates that they are not.

The programming is not memorized in Global. Turn off and turn on the instrument again to switch to ON.

```
MODE                                    DISK/GLOBAL


VALUE M.Tune=+00   Spker:ON
      XPose Pos: POST-KB              PAGE
                                     ◁ 2▷


```

New "MIDI Settings" page

This page is used to access the Global Protect and MIDI Setup functions.

```
MODE                                    DISK/GLOBAL


VALUE MIDI SETTINGS    (Yes)
      <PROTECT>        <SETUP>         PAGE
                                      ◁ 3▷


```
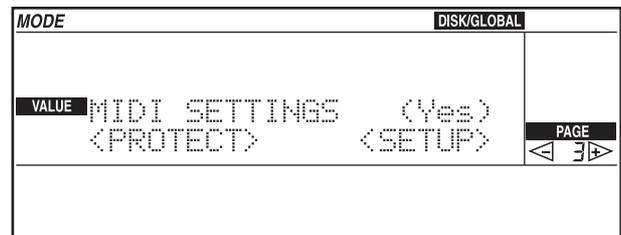
1. Select the desired function with the CURSOR buttons.
2. Press ENTER/YES to access the function.
3. Set the desired values.
4. Press EXIT/NO to return to the previous page.

Global Protect

The Global Protect function protects the settings in the Disk/Global mode when loading a Global (.GLB) file. If the protection function is activated, the Global settings will not be modified when loading data with Load All or Load Global.

Warning: The modification of the MIDI settings may change the channel assigned to the Global, Chord 1, and Chord 2 special channels. If the iS40/iS50 is controlled by an external MIDI device, the communication between the MIDI device and the iS40/iS50 may be interrupted by the Load All > All or Load Global operation.

```
MODE                              DISK/GLOBAL

VALUE PROTECT:OFF
                                        PAGE
                                          3
```
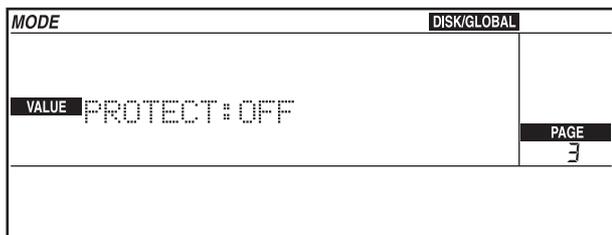
Protect
[OFF, ON]

Activates/deactivates the Global parameter protection when loading a Global file.

OFF	Protection off. The MIDI settings may be modified when loading a Global file (Load All > All, or Load Global).
ON	Protects all the Global settings, including the MIDI settings.

MIDI Setup

The MIDI Setup function allows for configuring the programming pages of the MIDI and other parameters with only one command (see table "MIDI Setup" on page 9). Select one of the setups to automatically configure the iS40/iS50 for the connection to a specific type of MIDI controller.

```
MODE                              DISK/GLOBAL

VALUE MIDI SETUP  (Yes)
      Setting:DEFAULT                   PAGE
                                          3
```
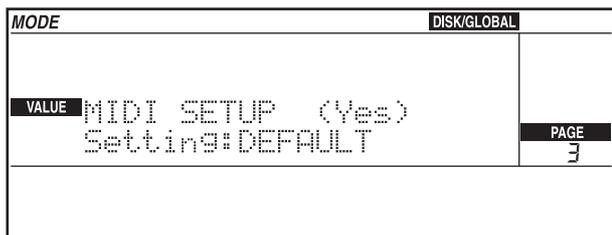
1. Select the desired setup with the TEMPO/VALUE buttons.

2. Press ENTER/YES twice to confirm the selection and configure the iS40/iS50. You will return to the higher level at the end of the operation (MIDI Settings).

   **Note:** The MIDI Setup can be recalled even when the Global Protect function is activated.

MIDI Setup
[DEFAULT, PIANO 1, PIANO 2, MASTER KB, ACCORDION1/2/3, GUITAR]

The name of the MIDI Setup you have selected indicates the type of MIDI controller the iS40/iS50 is connected to. Select "Default" to restore the factory MIDI settings.

New "Echo Back / MIDI IN Octave" page

A new page with the new functions "Echo Back" and "MIDI IN Octave" has been inserted.

```
MODE                              DISK/GLOBAL

VALUE Echo Back: OFF
      MIDI IN Oct: L+0 U+0            PAGE
                                     ◁ 5▷
```
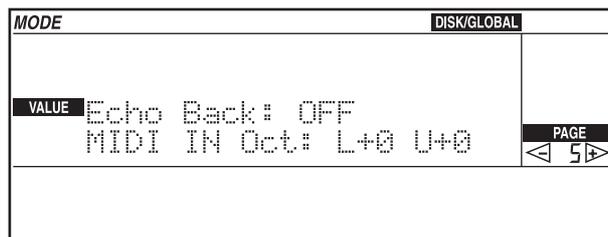
Echo Back
[ON, OFF]

The Echo Back function allows you to connect the iS40/iS50 to a digital piano and create a "muted" keyboard area for the chord composition for the automatic accompaniment.

In order to use this function, you need to connect the MIDI OUT connector of the iS40/iS50 to the MIDI IN connector of the piano, and the MIDI IN connector of the iS40/iS50 to the MIDI OUT connector of the piano.

When you activate the function, the iS40/iS50 will send a Local Off message through the MIDI OUT, while disconnecting the internal sounds of the piano from the piano keyboard.

If the Echo Back function is active when you turn the iS40/iS50 off, the Local Off message will be sent to the piano when turning the instrument on. Therefore you need to turn on the digital piano first, and then the iS40/iS50.

When the Echo Back function is active, when playing on the piano keyboard, the MIDI messages will be sent to the MIDI IN connector of the iS40/iS50 (over the Chord 1 channel), which will send back the notes above the iS40/iS50 split point to the piano (that is the notes played with your right hand).

In this way you can play the automatic accompaniment chords (left hand, on the left of the split point) and the melody notes (right hand, above the split point) on the piano.

Note: The Echo Back function is used by the MIDI "Digital piano 1" and "Digital piano 2" setups.

Note: When the Echo Back function is active, the iS40/iS50 will send a Local Off message over the MIDI OUT connector when turned on. Turn on the piano before turning the iS40/iS50 on.

MIDI IN	iS40: The function is activated on the MIDI IN (to be used if the piano is connected to the MIDI IN).
PCI/F	iS40: The function is activated on the PC TO HOST connector (to be used if the piano is connected to the PC TO HOST connector by means of serial interface).
ON	iS50: The function is activated.
OFF	The function is deactivated.

Oct (MIDI IN Octave)
[-2…0…+2]

This function is used to transpose the incoming MIDI notes by one or more octaves. It is particularly useful to accordion players to modify the octave in which the right hand notes (Upper 1/ Upper 2) and the left hand notes (Lower) are received.

| L | Lower track transposition. |
| U1/U2 | Upper 1 and Upper 2 track transposition. |

Separated MIDI channels for the Upper 2 and Lower tracks

You can assign a different MIDI channel for each keyboard track (Upper 1, Upper 2 and Lower) on page 6 ("Programming the MIDI channels (1)").

```
MODE                                    DISK/GLOBAL

 VALUE  MIDI CHANNEL   GLB=01
        LOW=01 UP2=01 UP1=01            PAGE
                                       ◁  5 ▷
```
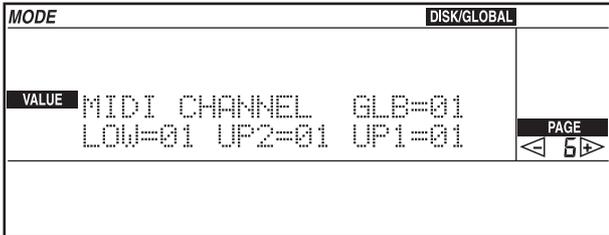
Master Transpose Lock

You can decide whether the selection of an arrangement will change the Master Transpose on page 10 ("Master Transpose Lock").

```
MODE                                    DISK/GLOBAL


 VALUE  Transpose Lock: ON
                                        PAGE
                                       ◁ 13 ▷
```
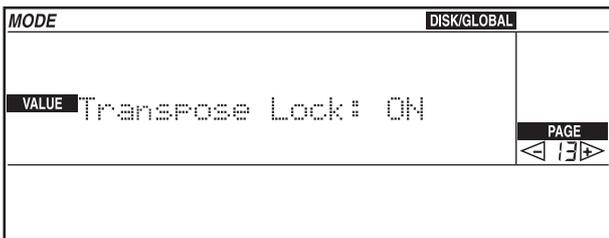
Master Transpose Lock
[ON/OFF]

If ON, this function prevents the general chromatic transposition from being modified, when a different arrangement is selected. The factory setting is ON.

New pedal assignable functions

The following pedal assignable functions have been added on page 11 ("Assignable Pedal"):

SYNC START
SYNC STOP
ACC1-3 MUTE/PLAY
LOW/UP1/UP2 MUTE
KEYB SET UP
KEYB SET DOWN

Trigger Mode

The "Trigger Mode" function has been inserted on Page 14.

```
MODE                                    DISK/GLOBAL


 VALUE  ChordRecog:Fingered1
        Trig:ON                         PAGE
                                       ◁ 17 ▷
```

Trig (Trigger)
[Note On/Note On & Off]

If the Trigger parameter is set on ON, you can change the chord by raising one or more notes of the previous chord, without playing the chord again.

For example, you are playing a C7th chord (C, E, G, B flat) and the arranger recognizes C7th. If you raise the B flat, a C major (C, E, G) chord will be composed and the arranger will recognize a C Major.

This parameter changes the way in which the chords are recognised while playing on the keyboard.

| Note On | Chords are recognised when the notes are played. When the notes are released, the chord will not be updated. |
| Note On&Off | Chords are recognised both when the notes are played and released. For example, if you play C, E, G, B flat, the C7th chord will be recognised. If you release the B flat, the C major chord will be recognised. |

New USER scales

Ten programmable scales have been added, for a total number of 14 USER scales.

Separate joystick programming for the Upper 2 and Lower tracks

You can program the joystick separately for the Upper 2 and Lower tracks on Page 20 ("Programming the Joystick").

```
MODE                                    DISK/GLOBAL


 VALUE  JOYSTICK X SWITCH
        LO:PRG U2:PRG U1:PRG            PAGE
                                       ◁ 20 ▷
```
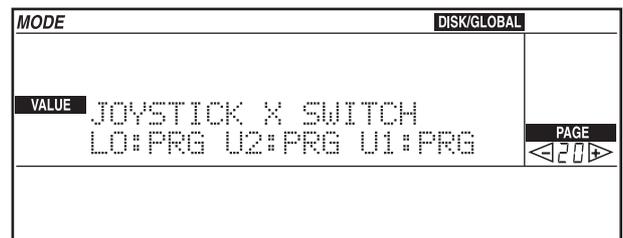
MIDI Setup

The following table shows the parameters that are automatically configured by each MIDI Setup.

Parameter	Default	Master	Piano 1	Piano 2	Accordion 1	Accordion 2	Accordion 3	Guitar
Global	1	1	2	1	1	16	16	1
Upper 1	1	1	2	2	1	1	1	1
Upper 2	2	1	2	2	1	4	4	1
Lower	3	1	2	2	2	2	2	1
Drum	10	10	10	10	10	10	12	10
Percussion	11	11	11	11	11	11	11	11
Bass	12	12	12	12	3	12	3	12
Acc.1	13	13	13	13	13	13	13	13
Acc.2	14	14	14	14	14	14	14	14
Acc.3	15	15	15	15	15	15	15	15
Chord 1	-	-	1	1	2	2	2	-
Chord 2	-	-	-	-	3	3	3	-
Arrangement	1	2	-	-	-	-	10	-
Program Filter	0	0	0	0	0	0	0	0
After Touch Filter	0	0	0	0	0	0	0	X
Control Change Filter	0	0	0	0	0	0	0	X
SysEx Filter	X	X	X	X	X	X	X	X
MIDI Velocity In	NOR	NOR	NOR	NOR	110	110	NOR	NOR
Echo Back	DIS	DIS	IN 1	IN 1	DIS	DIS	DIS	DIS
Local Off Transmission	NO	NO	YES	YES	NO	NO	NO	NO
Split Point	C4	C4	C4	C4	A1	C4	C4	C4
MIDI Octave Input Lower	0	0	0	0	-1	-1	-1	0
MIDI Octave Input Upper	0	0	0	0	0	0	0	0

Errata Corrige

The Owner's Manual contains a list of Drum Programs that is partially incorrect (some numbers of Program Change are wrong). The correct list is shown on the bottom of this page.

Note: All mentioned trademarks belong to their manufacturers.
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BS	PC	#		BS	PC	#	
Drum 1				**Drum 2**			
004	000, 002-007, 074-115, 117-127	Dr11	GM Kit 1	004	040-047	Dr21	Brush Kit
	001	Dr12	GM Kit 2		048-055	Dr22	Orchestra Kit
	008-015	Dr13	Room Kit		064, 066-071	Dr23	Percussion Kit
	016-023	Dr14	Power Kit		065	Dr24	Latin Perc. Kit
	024, 027-031	Dr15	Electronic Kit		116	Dr25	Arabian Kit
	025	Dr16	Analog Kit		056-063	Dr26	SFX Kit
	026	Dr17	Dance Kit		072	Dr27	(User 1)
	032-039	Dr18	Jazz Kit		073	Dr28	(User 2)