



ICON/PICK™ Assembler Release 6.10

Release Notes

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Release Notes

ICON/PICK Assembler

**Release 6.10
for M68k-based
ICON Computer
Systems**

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ICON/PICK Assembler for M68k Release Notes
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Additional copies of this document may be ordered by addressing your correspondence to the Sanyo/Icon corporate address above. Include the name of the manual and the order number.

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ICON/PICK™ Assembler Release 6.10

Sanyo/Icon announces Release 6.10 of the ICON/PICK™ Assembler, which must be used in conjunction with Release 6.10 (or greater) of the ICON/PICK Application Environment. Release 6.10 of the ICON/PICK Assembler supersedes all previous releases.

The following sections describe the ICON/PICK Assembler as well as provide instructions to install this release on your ICON computer system.

Description The ICON/PICK Assembler is designed to allow assembler language development within the ICON/PICK Application Environment. It is recommended that only advanced programmers, with extensive experience in the PICK® system, be allowed to use this software product.

CAUTION Use of the ICON/PICK Assembler voids all software warranties, whether written or implied, for the ICON/PICK Application Environment.

Enhancements ICON/PICK includes a jump table that allows assembler programmers to make use of standard subroutines without the need of re-assembling them for each release. The jump table is moved by Sanyo/Icon only in the event of a major software release.

Since ICON/PICK Release 6.10 (with which this release of the assembler is compatible) is a major software release, all assembler routines within ICON/PICK prior to Release 6.10 require re-assembly.

Two kilobyte data frames have been implemented in the ICON/PICK environment to eliminate the unnecessary overhead in the monitor when determining the proper frame type (ABS or data) or size.

ICON/PICK currently has 1024 ABS frames. Frames above 512 are available for general use. However, a plan has been implemented to reserve ABS frames for assembler level products designed for general distribution. To ensure that frames used by outside software vendors are not overlaid and to avoid use of the same ABS frames by more than one software vendor, assembler programmers should call the Sanyo/Icon Customer Service Department for the latest ABS frame assignments.

*Known Bugs
and Software
Deficiencies*

At the time of this release, there are no known bugs in the ICON/PICK Assembler. The only deficiencies are those that are standard to all generic releases of the PICK R-83 system.

User Responsibility

The installation instructions for this software release follow. Read these instructions through completely before beginning the software installation procedure.

CAUTION

Sanyo/Icon accepts no responsibility for damages, incidental or actual, incurred as a result of using the software and/or installation instructions in other than in the manner prescribed in these Release Notes.

If, after reading the installation instructions, you need assistance, call Sanyo/Icon Customer Service toll free. The telephone number is 1-800-SANYO-US (726-9687).

New Software
Installation

Release 6.10 of the ICON/PICK Assembler supersedes all previous releases. Because this is a major release, ICON/PICK Assembler Release 6.10 must be installed on your ICON computer system as if it were a new software installation, as opposed to being an update to the previously released version of the Assembler.

Minimum ICON/UXV
Requirements

This version of the ICON/PICK Assembler is only compatible with Release 4.4x versions of the ICON/PICK Application Environment.

You can determine the version of ICON/PICK that is installed on your ICON computer system by typing in the **vers** command at the TCL display prompt.

*The Distribution
Media*

The ICON/PICK Assembler is distributed on a cassette or a cartridge tape, depending on your system's specific configuration. The Sanyo/Icon part number for the Assembler is 160-010-004.

The tape contains all the software files needed to run the ICON/PICK Assembler on your computer system. The files are in ACCOUNT-SAVE format.

*If You Want to
Get Started
Immediately*

If you are an experienced PICK user, or are already familiar with ICON/PICK and would like to get started with the software installation steps immediately, follow the enumerated steps in the left hand column of the page. The detailed explanation of the step is contained in the right hand column.

*Installing the
ICON/PICK
Assembler*

You should have the ICON/PICK Assembler Release 6.10 distribution tape in hand. It will be labeled with the Sanyo/Icon part number 160-010-004.

**ICON/PICK
Must Be Booted**

Your ICON computer system must have the ICON/PICK Application Environment booted and running before you can install the ICON/PICK Assembler. If ICON/PICK is not booted, proceed to boot it.

**Log On to the SYSPROG
Account**

Once ICON/PICK is booted, log on to the SYSPROG account from any ICON/PICK terminal.

**1 Type
SYSPROG <return>**

Typing **SYSPROG** from a logon prompt logs you on to the SYSPROG account and brings up the following screen display:

```
                This is the SYSPROG account on the ICON system

----- Tape Routines -----
1 Backup system or specific accounts
2 Restore one or more accounts
3 Display current tape name
4 Set a new tape type
5 Display system backup statistics

----- Account Routines -----
6 Display existing account names
7 Create a new account
8 Delete an existing account
9 Update account MD entries
10 Update ICON/UX privileges
11 Change the password on an account

Enter selection:

----- Misc Routines -----
12 Display printer assignments
13 Display spooler status
14 Display all users
15 Display system statistics
16 Display available system space
17 Edit terminal definitions
18 Show active terminals
19 Activate all terminals
20 Switch to ICON/UX
21 Show ICON/PICK version number

----- System Maintenance -----
22 System Shutdown (WARNING!)

----- Documentation -----
23 Enhancements
24 Possible conversion problems
```

**2 Type
2 <return>**

At the "Enter selection" prompt, typing **2** will execute the RESTORE function.

- 3 Type
CT0 or QIC24 <return>

You are prompted to select the tape device from which the ICON/PICK Assembler software will be restored.

Select and attach required tape unit

Valid option are:

MT0	9 Track tape, 1600 bpi
MT1	9 Track tape, 3200 bpi
MT2	9 Track tape, 6250 bpi
QIC24	Cartridge tape
QIC11	Cartridge tape
CT0	Cassette tape
FLH	High density Floppy
FLD	Double density Floppy

Select tape device

Depending on the type of tape device installed in your computer system, type **CT0** (for cassette tape) or **QIC24** (for cartridge tape) and press the <return> key.

- 4 Type
A

You are prompted whether to restore all missing accounts, or just specified accounts.

(A)ll missing accounts, or (S)pecified accounts?

Type **A** to restore all accounts contained on the distribution tape.

- 5 Type
N

You are prompted whether the **SAVE** (on the distribution tape) was produced on a computer system that has a different frame size than the system to which the **RESTORE** will be performed.

Was your save produced on a system with different frame size (Y/N)

Type **N**.

6 Type
Y

You are prompted whether you want to ignore any file resizing parameters that may be found in the RESTORE files.

Do you wish to ignore any file resizing parameters found in the data (Y/N)

Type Y.

When the RESTORE is complete, you may be prompted to restore any updates, depending on the type of SAVE that was originally made. Respond to this prompt by typing N.

When all of the ICON/PICK Assembler files have been RESTORED to your computer system, you are returned to the SYSPROG menu.

*What If Problems
Occur During the
Load?*

Should you have problems installing the ICON/PICK Assembler software from the distribution tape, or if any of the files listed in Appendix A do not properly load, delete the ICON/PICK.ASM account and load the assembler files once again. If the second attempt is not successful, call the Sanyo/Icon Customer Service Department (1-800-SANYO-US (726-9687)) and report the problem.

*Using the
ICON/PICK
Assembler*

Once the ICON.ASM account has been restored from the software distribution tape to your computer system, you are ready to begin using the ICON/PICK Assembler.

Type
TCL <return> You must be at TCL before you can access the ICON/PICK Assembler account.

At the SYSPROG menu "Enter selection" prompt, type TCL. This will take you from the SYSPROG account menu to TCL.

Type
LOGTO ASM-6.10 <return> You must log on to the ASM-6.10 account to use the ICON/PICK Assembler.

At TCL, type LOGTO ASM-6.10 and press the <return> key. Logging on to the ASM-6.10 account brings up the following screen message:

```
This is the assembler account for the ICON system.

The source file is the SSM file.
The object file is the MSM file.

The "OPT" proc is used to compile the source frames.

The "FR" proc will display the frame data for a frame name.
The "FRD" proc will display the frame data for a frame number.
The "FRX" proc will display the frame data for a HEX frame number.

The "FIND-FRAME" verb will display available frame numbers.
The "FIND-ONE" verb will display the first available frame number.
```

The information contained in the screen display explains the use of the routines used in the ICON/PICK Assembler. A jump table has been incorporated into Sanyo/Icon's implementation of the R83 release of PICK so that code pertaining to software updates will automatically be assembled after installation. In this way new releases of the ICON/PICK Assembler are minimized.

If the jump table is moved to a new location in the monitor (which would necessitate reassembly of any user-generated assembly language routines), the first digit of the software release number will be changed (such as 4.00 to 5.00). This signifies a major release of the software.

Refer to the *ICON/PICK Assembler User's Manual* for further information on using the ICON/PICK Assembler.

*Support for the
ICON/PICK
Assembler*

Because the ICON/PICK Assembler can be used to alter the structure of the ICON/PICK environment, all software warranties and contracts are nullified. Any support of this product or other products affected by its use will be strictly on a time and materials basis.

*Contacting
Sanyo/Icon*

If you have any questions concerning Release 6.10 of the ICON/PICK Assembler, please contact the Sanyo/Icon Customer Service Department. The toll free number is 1-800-SANYO-US (726-9687). Our normal business hours are from 8:30 A.M. to 5:30 P.M. Mountain Standard (Daylight) time.

If you have questions about software orders, or wish to order software upgrades for your computer system, please contact the Sanyo/Icon Sales Administration Department. The toll free number is 1-800-US-SANYO (877-2696).

*Save These Release
Notes for Future
Reference*

These release notes document the features, fixes, and installation procedure for Release 6.10 of the ICON/PICK Assembler software. You may need to refer to these notes sometime in the future. File this document in your *ICON RELEASE NOTES* binder behind the PICK tab sheet.

If you do not have this binder, call the Sanyo/Icon Sales Administration Department to place an order for it. The order number for the binder is **172-066-001**.



Appendix A: *ICON/PICK Assembler Release 6.10 Files*

This appendix provides a list of files that are contained on the ICON/PICK Assembler software distribution tape for Release 6.10 and is provided for you as a source of reference. This list may be consulted during the load process to verify that all of the files listed are being loaded onto your ICON computer system.

Should you find a discrepancy between this list and the list of files displayed as the ICON/PICK Assembler is being loaded on your computer system, contact the Sanyo/Icon Customer Service Department and report your findings.

Tape 1 of 1 (ACCOUNT-RESTORE file)

```
ICON/PICK.ASM
  I.OSYM
    I.OSYM
  M2.ERRORS
    M2.ERRORS
  POINTER-FILE
  SSM
    SSM
  FRAME.USAGE
    FRAME.USAGE
  PSYM
    PSYM
  SOURCE.BP
    SOURCE.BP
  OSYM
    OSYM
  HARDNESS
    HARDNESS
  SOURCE.PROCS
  MSM
    MSM
  M.PSYM
    M.PSYM
  M.OSYM
    M.OSYM
```





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