

The W30 Music Workstation was released in the late 80's.
 It is a 12/6 bits sampler with full sample editing, onboard MIDI sequencing and wave table synthesis.

It can read several samplerdisks types, like **S50**, **S550**, **S330** and of course **W30** disks.

Its expandable with the [KW30 SCSI kit](#) which works great.

The W30 is very handy because it has 8 outputs and lots of software for PC, MAC, Amiga, Atari.

One thing that isn't quite handy is that the W30 doesn't have realtime filters, so if you want to use them you must have a midi mixer or use a sequencer on a computer. The W30 also doesn't have Sysex.

Price secondhand: something between \$ 400 USD and \$ 600 USD

Technical Specifications

* Maximum simultaneously producible voices:

16

* **Sound & Source**

DI Process

Sampling rate: 30kHz/15kHz

Data format: 12 bits Linear

D/A Converter: 16 bits

Sampling Time: 7.2 sec. x2(A,B) @ 30kHz sampling rate; 14.4 sec. x2(A,B) @ 15kHz sampling rate

INPUT: -50dBm /47kOhm (GAIN: max); +10dBm /47kOhm (GAIN: Min)

OUTPUT: 0 dBm /6.7kOhm (1 Voice: Max)

* **Sound & Memory Internal**

Wave Memory: 384k byte x 2bank

RAM Wave Data (rewritable): 512K word

ROM Wave Data (not rewritable): 512K word

RAM Wave-using Tones: 32/Tone Parameters

ROM Wave-using Tones: 64/Tone Parameters

Patches: 16/Patch Parameters

FUNC Parameters

MIDI Parameters

* **System Disk**

ROM Wave-using Tones: 128/Tone Parameters

ROM Wave-using Patches: 32/Patch Parameters

* **Sound & Song Disk**

Wave Data: 512K word

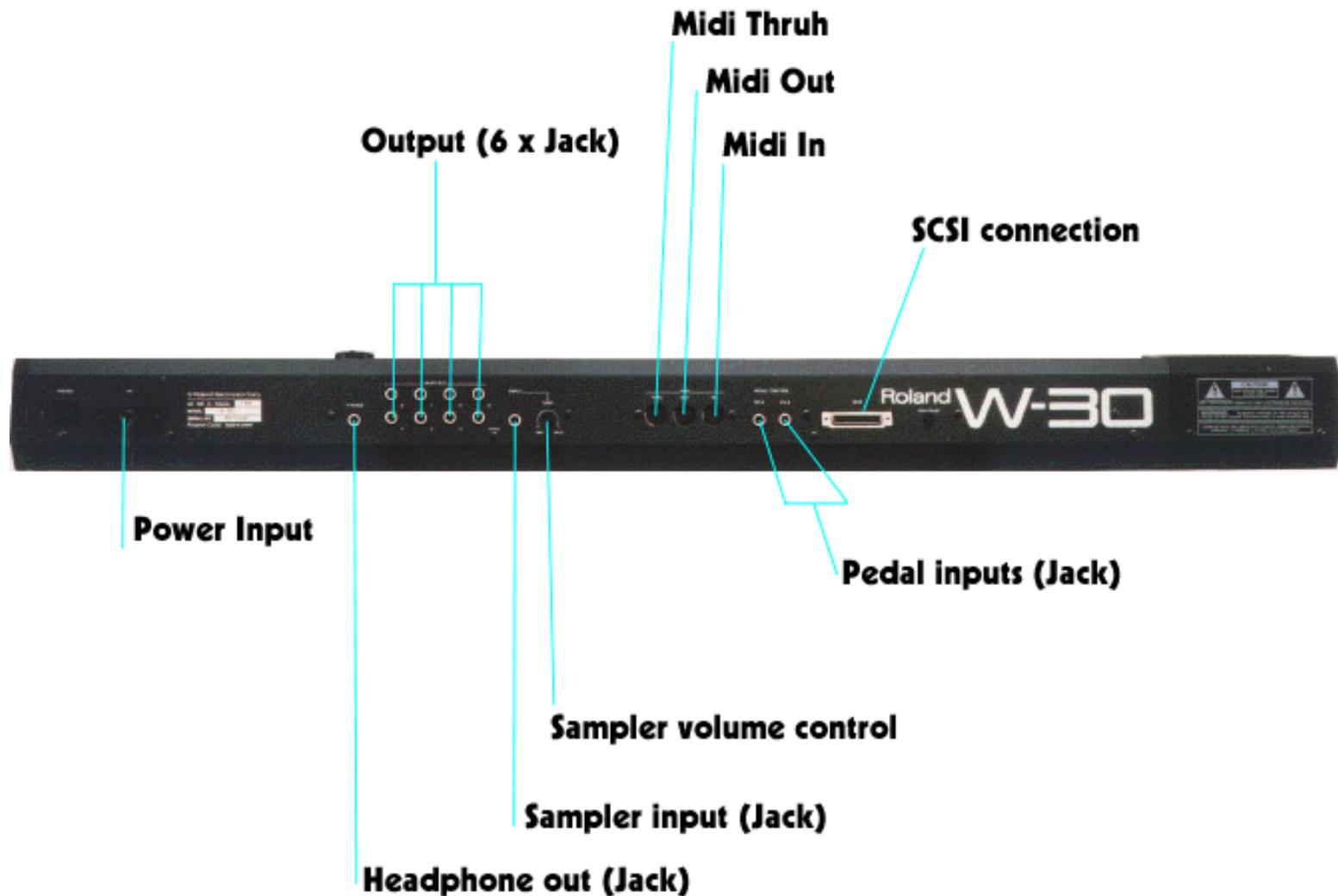
RAM Wave-using Wave Data: 512K word

[Info about the KW30](#)

[Hard disks/Cd roms that can be used](#)

[How to install the KW30 kit](#)

[Upgrading memory](#)



What is the KW30?

If you have the W30 manual, you might have read that you can put a "SCSI" device in your W30. This upgrade kit is called the **KW30**.

What exactly is the **KW30** ?

If you order one at you local Roland dealer or your own Roland coörperation near you, you get only 1 chip, a manual and a new systemdisk with haddisk/SCSI options.

What can you do with the **KW30**?

- You can acces you samples a lot quicker.
- It doesn't give you the ability to sample longer :(
- You can plug up to 4 Haddisks and a CD-(Rom) player
- You can store all samples on HD. This is very handy when you have a liveperformance (like mine) and you almost use the W30 in every song you play).
- Every DD disk is stored on HD, so you still need to load the disks from HD.
- Loading and saving goes a lot quicker.
- The maximum size that the W30 can use of the SCSI Haddisk is 80 MB but then again you can hang 4 of them on your W30 and you can switch them, so it doesn't have to be 4 the same Haddisks each time.

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[SDISK.EXE](#) how to store and restore your own disk

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[Remapping](#) a sample

[Midi](#)

All tips and tricks were provided by mail.

Maybe you have some more tips or tricks, please tell me.

Testmode

Press and hold F1 and F2 and switch the power on.

Version Number

Press F1 and switch the power on

Hacker mode

How to enter W-30's Hacker Mode:

Press user twice to enter "user setting" mode.

Then, while keeping tempo pressed, press F1 twice quickly.

The Hacker mode is on now.

After that, the sequencer menu will contain one more option named "Hacking tools". When executed, it will load hacker commands from the system disk.

To quit Hacker mode, do the above procedures again.

In the "Sequencer menu" window now appears two more choices:

7. Block Hacker

8. Hacking tools

In the "Jump to screen" window now appears four new choices:

computer utilities

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PC

SDISK v1.0 SDISK v1.1	can read all kinds of samplerdisks like the W30 and write it to a file on your HD and back to disk again. BTW i'm not exactly sure what the differences are between v1.0 and v1.1 but they're both extremely similar. Here's how to use it.
SMFW30	great program which has all kind of utils in it like Wget, Wput, Wdir, delete, memo-edit, etc. Trial version can be used 10 times for free.
Sources	Source codes of the W30 Utils for PC (SORRY THIS LINK IS DOWN UNTIL I CAN FIND THESE FILES, THEY WERE HOSTED ON THE OLD SERVER.)
W30 tools	for developing software(SORRY THIS LINK IS DOWN UNTIL I CAN FIND THESE FILES, THEY WERE HOSTED ON THE OLD SERVER.)
Utils	All utils like Wdir, Wget, Wput, Winit and tonedump in 1 zipfile.
W30 DiskImport	Windows app that converts w30 sample disks to .WAV files. verys usefull, since all the above apps are DOS only and can only convert one sample at a time. This app at least allows you to convert a whole disk at a time.

Macintosh

D-soundPRO	An incredible sound editor for the MAC. It can export and import files to S50, S550 and S330 disks, so it's essential if you want to create samples on the mac and then load them up on the w30. Best thing of all the app is 68K native - so it will run on anything form a Mac Plus on up, even works on the b/w g3's.
SMAC	Exactly the same as SDISK for PC only on MAC How to use it.

Amiga

Sample Utility	can read all kinds of samplerdisks like the W30 and write it to a file on your HD and back to disk again. Its exactly the same as SDISK for PC but a bit easier to use. here's the readme.
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these links have been redirected to point to the mirror at:
<http://gamelay.usami.com/~netboy/w30/sites/w30.msoft.it/disks/>

many thx to Yoshinori USAMI, be respectfull of his limited bandwidth, and happy downloading

- dev, 04.14.01

New Disks

All new disks here were provided by Eric TARTAMELLA etartamella@i-france.com

Strings	Epnoclavier
System 1.07HD	Jazzy sounds
D50 sounds	Acpnogam
Dx7 sounds 1	Clubpno
Dx7 sounds 2	Pnolive
JX10 sounds 1	Poporgn
JX10 sounds 2	EPNovibe
Khbs Sounds 1	Epiporgn sounds
Khbs Sounds 2	tnodrmor sounds
USBdemo sounds 1	techno_1 sounds
USBdemo sounds 2	fm_synth sounds
BSDR set 1	Mgaus sounds
OB sounds 1	Final sounds
Roland sounds	Electric sounds

Download W30 Sample Disks

System 1.10	W30 Systemdisk (The latest) Version 1.10 for PC (with samples)
System 1.07HD	KW30 Systemdisk for the SCSI interface (The latest) Version 1.07 (with samples)
System 1.06	KW30 Systemdisk. Version V1.06 loads a lot quicker.
W30disk1	The original disk 1. (With songs/samples)
W30disk2	The original disk 2. (With songs/samples)

S50 Disks from Sgroup

these link have been redirected to point to the sgroup archives at:
<ftp://sunsite.smc.univie.ac.at/mirrors/lotus.uwaterloo.ca/pub/sgroup/>

happy downloading :) - dev 04.14.01

Name	Description
RSB-S501_1	Electronic Piano
RSB-S501_2	Synthesizer
RSB-S501_3	Electric Piano 2
RSB-S501_4	Acoustic Guitar
RSB-S501_5	Harpsichord and Pipe Organ
RSB-S501_6	Electric Bass
RSB-S501_7	GT Drums
RSB -S501_8	Woodwinds
RSB -S501_9	Baritone/Alto Saxophone
RS B-S501_10	Tenor/Soprano Saxophone
RSB -S502_1	Mallets No. 1
RSB -S502_2	Harp No. 1
RSB -S502_3	Woodwinds No. 2
RSB -S502_4	Gate City No. 1
RSB -S502_5	String Variation No. 1
RSB -S502_6	MIDI Stack No. 1
RSB -S502_7	Jungle Life
RSB -S502_8	Air Disk No. 1
RSB -S502_9	Ethnic & Gongs No. 1
RSB -S503_1	Oooze & Oz
RSB -S503_2	Brass #1
RSB -S503_3	Balaphones
RSB -S503_4	Piano (NEW)
RSB -S503_5	New Strings, E.Piano, Choir
RSB -S503_6	Bass #2

S-550 Disks from Sgroup

these link have been redirected to point to the sgroup archives at:
<ftp://sunsite.smc.univie.ac.at/mirrors/lotus.uwaterloo.ca/pub/sgroup/>

happy downloading :) - dev 04.14.01

Name	Discription
RSB-S5501_1	Club E. Piano/Bass & WaveSynth
RSB-S5501_2	Tenor & Soprano Saxaphones Vol. 1
RSB-S5501_3	AcPiano 2
RSB-S5501_4	Bass Vol. 1
RSB-S5501_5	Ac. Guitars 2 Nylon-Spain, Classical & Bandolins
RSB-S5501_6	Sollo Cello & Duo
RSB-S5501_7	Woodwinds
RSB-S5501_8	Pop Piano 1 Electric Grand & MKS-20, Rhodes (1 of 2 disks)
RSB-S5501_9	Grand Piano 3 Lower (1 of 2 disks)
RSB-S5501_10	Grand Piano 3 Upper (2 of 2 disks)
RSB-S5502_1	Club E. Piano/Bass & WaveSynth
RSB-S5502_2	Tenor & Soprano Saxaphones Vol. 1
RSB-S5502_3	AcPiano 2
RSB-S5502_4	Bass Vol. 1
RSB-S5502_5	Ac. Guitars 2 Nylon-Spain, Classical & Bandolins
RSB-S5502_6	Sollo Cello & Duo
RSB-S5502_7	Woodwinds
RSB-S5502_8	Pop Piano 1 Electric Grand & MKS-20, Rhodes (1 of 2 disks)
RSB-S5502_9	Grand Piano 3 Lower (1 of 2 disks)
RSB-S5502_10	Grand Piano 3 Upper (2 of 2 disks)
RSB-S5503_1	Conga Monga In Stereo
RSB-S5503_2	Jet Strings In Stereo
RSB-S5503_3	Long Crash Splash In Stereo
RSB-S5503_4	Pluck Pianos
RSB-S5503_5	Mini Moog Bass 1

RSB-S5503_6	Eq Drum Kits 1A
RSB-S5503_7	Stereo THX
RSB-S5503_8	Fm Filtered
RSB-S 5503_9	Stereo Drum Kit
RSB-S5503_10	Stereo Drum Kit 2
RSB-S5504_1	Long Ride & Bell In Stereo!
RSB-S5504_2	G&L Precision Bass
RSB-S5504_3	Exotic Hand Percussion #1
RSB-S5504_4	Designer Trap Set #1
RSB-S5504_5	Industrial Strength Techno Synth Percussion
RSB-S5504_6	Sports Disk 1
RSB-S5504_7	Orchestral Percussion #3
RSB-S5504_8	Mark Trees & Wind Chimes In Stereo
RSB-S5504_9	Harpsicord
RSB-S5504_10	Oriental Cymbols & Gongs
RSB-S5505_1	16 Bit Piano 1A
RSB-S5505_2	16 Bit Piano 1B
RSB-S5505_3	Hookmonics 59, 1959 Strat Oddities
RSB-S5505_4	Grand Piano 3W
RSB-S5505_5	Martin Steel String Acoustic Guitar
RSB-S5505_6	Rock Guitar Sampled Distortion
RSB-S5505_7	ET Perc 1, Assorted Hand Perc.
RSB-S5505_8	Real Bass Slapper
RSB-S5505_9	Sun. Nite Sax, Solo Alto & Shortened Trane Tenor
RSB-S5505_10	Kingdom Pad
RSB-S5506_1	Pluck Guitar, Plink Strat & Riffs
RSB-S5506_2	Underwater FX, Courtesy Garcia Scuba Archives
RSB-S5506_3	Cho Trumpet, from: Roland A Sound Approach
RSB-S5506_5	CD Basses, from: Roland A Sound Approach
RSB-S5506_6	Violins x 8, 8 Man Section
RSB-S5506_7	Hits & Hornz Various Chords
RSB-S5506_8	Brass Vol. 3, MultiSampled Trumpet Fall & Various
RSB-S5506_9	Super Kit 16, 16bit Drums Digitally Equalized
RSB-S5506_10	Banjo Man, Open Strings

RSB -S503_7	Tone Wheel Action
RSB -S503_8	Train Ride, Air Base
RSB -S503_9	New Drums & 808
RS B-S503_10	Ethnic-Anklungs & Wind
RSB -S504_1	Guitar, Mandolin, Harp
RSB -S504_2	Stereo Effects 1
RSB -S504_3	Stereo Effects 2
RSB -S504_4	Woud & SAZ
RSB -S504_5	Tamboura & Sitar 1
RSB -S504_6	Multi Sampled Solo
RSB -S504_7	Orchestra & Tympani # 1
RSB -S504_8	Ethnic Soundtrack
RSB -S504_9	Hi Strings 2
RS B-S504_10	Anarchy Time!
RSB -S505_1	Metal & Glass FX
RSB -S505_2	Assorted Ride Cymbals
RSB -S505_3	Assorted Cymbals 1
RSB -S505_4	Indian Percussion 1
RSB -S505_5	Latin Percussion 1
RSB -S505_6	Timbales & Toms
RSB -S505_7	Assorted Kicks 1
RSB -S505_8	Assorted Snares 1
RSB -S505_9	Tabla Collection 1
RS B-S505_10	Indian Percussion 2
RSB -S506_1	Wild Kingdom
RSB -S506_2	Orch. Perc. Vol.#1
RSB -S506_3	MIDI Elec. Piano & Bass
RSB -S506_4	Guitar & Stick
RSB -S506_5	Ethnic Grab Bag
RSB -S506_6	Techno Set
RSB -S506_7	Suspense Orch.
RSB -S506_8	Synth Vol#2
RSB -S506_9	Pan Pipes/Shakuhashi
RS B-S506_10	Funk Guitar

RSB -S507_1	Air Disk 2
RSB -S507_2	Synths Vol. 3
RSB -S507_3	Japan Perc. 1
RSB -S507_4	Shamisen 1
RSB -S507_5	Space FX #1
RSB -S507_6	Analog Perc.
RSB -S507_7	Pop Piano 1
RSB -S507_8	Surf's Up!
RSB -S507_9	FM Stuff
RS B-S507_10	Classical (Composer series)
RSB -S508_1	Big Time
RSB -S508_2	Mute Trumpet
RSB -S508_3	Drivin'
RSB -S508_4	Koto 1
RSB -S508_5	Comedy Props
RSB -S508_6	Hollywood FX
RSB -S508_7	Funk Rock Set 1
RSB -S508_8	Japanese Flutes 1
RSB -S508_9	Reverb Drums
RS B-S508_10	Rainy Day

<u>W30disk3</u>	The original disk 3. (With songs/samples)
<u>SSN08M1</u>	Korg M1 Voices/Strings. Very cool, I really like these
<u>SSN09M1</u>	Korg M1 sounds. Digit Clavier
<u>SSN10M1</u>	Korg M1 Sounds
<u>SSN10AM1</u>	Korg M1 Stratos - Zephyr tone
<u>SSN10BM1</u>	Korg M1 sounds
<u>SSN10CM1</u>	Korg M1 Life magic - Statis 99
<u>SSN10DM1</u>	Korg M1 Cloud nine - Lorimbus
<u>SSN10EM1</u>	Korg M1 Bellvoice - Power pad
<u>SSN13PPG</u>	Korg M1 PPG Brass, Chorus, Hit Brass
<u>TR-909</u>	Well ehm TR 909 drumcomputer sounds. Really cool
<u>TR-606</u>	sounds (Samples). Some 606 drumsounds sended to me
<u>Hammond Organs</u>	sounds (Samples)
<u>Drum</u>	Sounds
<u>Stomper</u>	Sounds
<u>Voices 2</u>	Cool strings and voices
<u>Organ</u>	sounds (Samples)
<u>Organ2</u>	sounds 2 (Samples)
<u>Various</u>	sounds 1 (Samples)
<u>Various2</u>	sounds 2 (Samples)
<u>Electric Piano</u>	sounds 2 (Samples)
<u>Accident</u>	sounds, Police, car crash etc (Samples)
<u>Saxophone</u>	sounds (Samples)
<u>Laugh</u>	Party sounds (Samples)
<u>Synth Trumpets</u>	sounds (Samples) sended to me
<u>Weird synth</u>	sounds (Samples)
<u>Guitar1</u>	sounds
<u>Guitar2</u>	sounds
<u>Guitar3</u>	sounds
<u>Old</u>	voices sounds, like Elvis Jerry Lee Lewis etc
<u>Strings</u>	Sounds
<u>Orchestra</u>	Sounds

Atari

[Atari Utility](#) read the [readme](#) file what it does

- 63. Block using**
- 64. Block tracer**
- 65. Block show**
- 66. Hacking tools**

In the "FD Format" window now appears three new choices:

- 3. Hack system**
- 4. Hack save util**
- 5. Hack save sys**

In the "micro edit" window appears new information on top.

Realtime Filter 1

Question:

I've got a battered Roland W-30 and one of its nicer features is the resonant filters, but I simply can't figure out how to patch the cut-off point to the pitchbend wheel. If this is not possible can it be done using a different controller or Sysex info in Cubase ?

Jonathan, Stratford London

Answer:

Firstly, you can't vary the TVF (Time Variant Filter) cutoff point by using control data. It is purely SysEx as are all the filter and envelope parameters on the W-30. If you want to use SysEx data you can. To do this though will mean that you create a Mixer Map and merrily plough through the SysEx addresses and data in your manual. If you've no experience in writing either SysEx or creating Mixer Maps it can be a frustrating process.

It's not impossible but it is a daunting task.

It could well be possible to get the same effect by a slightly different method.

The TVF envelope can be made to respond according to the velocity of which the keys are struck. This is called the TVF EG level curve and it has six settings that alter the way in which the filter responds.

By experementing with these and also the cutoff point and resonance filter settings it should be possible to make the sound change quite drastically in timbre ??? according to how a key on the keyboard is struck. You might also need to re-edit the TVF envelope for a fast attack.

If you want a slow moving filter effect over a long phrase (a bass riff, for example) all you have to do is draw in the velocity values in the key edit page of CUBASE using, perhaps the compass tool to make sure you get straight lines.

This doesn't quite give you realtime control, I know but

it's the best thing

JB, Future Music

Sourcecode

Date: Mon, 16 Feb 1998 13:21:07

From: Anssi Ahola anssi@kirppu.sata.fi

Subject: re:sourcecode

Hi Joris!

Here is some general information that I hope to be useful in a task of getting inside the guts of W-30. In case it didn't go to the mailing list members, please see that will!

MSG Begin:

Here is some information considering the internal parts of W-30. If there is some tech-heads amongst W-30 users then this might be of some use.

I have been on the mailing list only three days or so, and I don't know, if this information is widely known already.

1. The Microcontroller

The microcontroller in W-30 is N8097BH. It is manufactured by Intel, and is a part of their 8X9X - series 16-bit microcontroller productline. You can find 8X9X - series microcontrollers users manual on the Intel's www-site. I took a quick peak last night, and it seemed to be pretty comprehensive. For one thing, it describes the options of connecting external memory to the chip, in both text and schematics.

The other useful aspect considering the microcontroller of W-30 is that it is a variation of a quite popular 8096 chip. That means, that it speaks the same language, so all you have to do is to find a disassembler/debugger for the 8096. I already found one probably very suitable for the task, the only problem is that it costs money.

I'm still looking for the freeware-version, and if I found one, i'll let you know.

2. SCSI-chip

The type of the SCSI-chip is MB89352. I didn't find much info on that, although I only did a quick altavista-search for the exact type. It seems, that the chip is manufactured by Sharp, but then again, as I said, I'm not certain about it yet. What you can do with that little piece of information, is to go to your local electronics store and ask if they got it, and what is the price of one. I bet my arse, that you will save a lot of money compared of buying the KW-30, which is the exact same chip, only with the Roland sticker on top of it! I will continue the research as I have time to do so.

If you have any comments or information about these topics, I gladly hear you out!

3.PA-Decoder

I know very well, that PA-Decoder has gone out of business, or do you think, that you would give your potential customers the product you are selling to make a living -for free? My intention, if it was not clear, was to encourage people to find out what happened to the company; Did it change it's name and continued its business in some other area of expertise?

Whome were the people in charge of W-30 modification, and where we can find them now? Seems to me, that some serious detective-work must be done here, and I hereby challenge all of you to **GET THAT INFORMATION!!!!**

Trying to get to the bottom of some out-of-production retro(well, accordin to FM anyway)gear is not an easy thing to do, but hey, they are making arcade game - emulators too! I think it can be done, and in fact we all know it can, because PA-Decoder did it already. So I'll keep you posted and I hope that you will do the same to me.

--Anssi

Realtime Filetr 2

Hi Joris,

sorry for Delay but I'm very busy. I have for you tip for realtime control of W30 Resonant filters. You need:

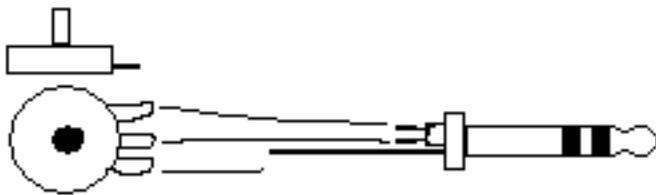
1 big stereo jack

1 Potentiometer about 500 kilo Ohm

and 1m of minimal 3 line cable (shielded)

then you must connect these 3 parts like on the schema below.

Put Jack to the EV-5 hole and check in the hacker mode (Controllers) if value (EV-5) changes when you turn with pot. If yes try this with some Aftertouch sounds. With my W30 this works fine!!!



Potenciometer
about 500k

Stereo Jack - big



Cleaning

From: "Hedegaard" hedegaard@heaven.dk

Subject: A Little Word Of Warning!

Date: Thu, 26 Feb 1998 10:41:25 +0100

High All,

Heres a little story that could be interesting for some of u's.

I bought my W-30 2nd hand a few years ago, & noticed that the buttons on the front panel were hard to press down and reluctant to spring back up (They worked fine though). At 1st I thought the casing was misaligned, but obviously it bugged me enough for me to take the whole W-30

apart. Removal of the back panel was OK, but to my grief, I had to remove both the circuit boards and the playing keys to dig myself to the bottom where the buttons were. At this point I thought Roland constructed it in such a way to keep any Tom, Dick & Harry from probing the synth. Removal of the final panel revealed buttons that are held in place by double-sided STICKY TAPE!! I removed 1 button to have a look at it, & noticed some other, highly probable foreign matter, now since I work at an electronics factory, I had a chemical engineer do an analysis on the substance.

I was told it was coffee with sugar & milk. I came back home, removed all the buttons and all the sticky tape. I had the buttons cleaned & other places where the now very old coffee was. By the way, it WASN'T my coffee.

I placed the buttons back, used a bit of contact spray on the panel, where there are thankfully very conventional leaded push buttons. After missioning my way back up the synth, I noticed that my W-30 had been assembled wrong!!! At the left side, where the power supply sits, there is a metal plate, which placed properly, will prevent any foreign liquid from going in that direction, thus saving the W-30 from a 220v overload. I re-aligned the plate, so that it now serves a function.

I had a problem with the D1 key not sounding when pushed, but a little contact spray settled that.

My 2 dials are also quite weird, the top one works fine, but makes no noise, nor do you feel any click-click sensation when rotated.

My bottom dial has a mind of its own. When u push hard & rotate it left-right, it works fine and you feel the click-click sensation, but when you push softly & rotate left-right, the numbers reverse in the wrong order!?!?!?!? Is this normal? I don't think so, so now I'll have to get hold of these specific types of dials and re-solder...uugggh!

I've never had a synth thats given me more hassle than my W-30, but somehow it doesn't really matter as the rewards are well worth it, at least for me.

Stay well,

This Mail > Presented By Hedegaard

SDISK How to store and restore your own disks.

I get a lot of mail from people asking what to do if they have downloaded a disk from my site. Well its quite easy and due the fact that I won't tell it to you over and over i've put it here :)

1.	First of all download the file SDISK from my page
2.	Unzip it and there will be 2 more files SDISK.EXE and SDISK.DOC I believe
3.	Download again a disk from my page, for example DRUM1.ZIP Unzip the DRUM1.ZIP file and I believe again a file named like DRUM1.W30 will appear
	Start SDISK in DOS . It won't work properly with Windows 95/97/NT. Use it in Dosmode. Press the D button for the details.
4.	First off all you must enter the name of the disk you want to save or restore . Then enter the drive you're restoring to or from (A/B). Then you're back in the main menu again. Well This was easy ;)

If you want to restore a disk then enter a **DD** disk in your drive and press **Write**. The file on your HD will be written to disk.

5. If you want to store a **DD** disk press **Read**. The disk will be written to a harddiskfile.

SDISK won't work properly with a HD disk !!!!

How to use **WPUT.EXE**

I have experienced the difficulty how to use WPUT.EXE. At first I got weird symbols in my display and I had to shut my W30 down. I talked to several W30 users on the list and they gave me advice. Finally last week, well last week was again a couple of months ago, I got the program working. There was nothing wrong with it I was the major failure ;)

I will keep you from having the same problems so I will try to tell you how to use WPUT.EXE.

1.	First of all you have to have a PC (this is PC software you know)
2.	Download the program Wput from the W30 site
3.	Unpack it with PKUNZIP.EXE and there should be a file WPUT.EXE
4.	Make some awesome samples and save them as 16bits *.wav files . It has to be 16bits, that was my failure. It doesn't matter what kind of KHz you use. I even can use my 8 bits samples from my amiga (19886 KHz) but if you don't save them as 16bits you'll get weird symbols and your W30 might crash !!! Well I didn't experienced this but it might ;)
5.	Format a disk on your W30 : Insert a DD disk
6.	Press the SEQUENCER button
7.	Press the F5 (Disk) button
8.	Press the F4 (Format) button and select SONG & SOUNDS . Your disk will be formatted, this is saver then using the Winit program on your PC
9.	Put the formatted disk into your PC drive and type " WPUT.EXE NAME.WAV ", now your PC will write the "NAME.WAV" file to your disk
10.	If you have transferred all your files to your W30 disk, it is ready to put in your W30. Start your W30 by inserting the systemdisk. The system will be loaded and also some samples and song data will be loaded
11.	Insert the disk you just put the samples on and press the SOUND button. Then press F5 (Load Sound) and finally press F1 (Load Set) .The disk is being loaded in your W30. All data which was in your W30 will be erased
12.	When the W30 stops with loading you will see NOTHING or hear NOTHING!!!! Ehm this isn't wrong, this is right. We will have to make a patch before we can hear the sound

How to make a patch

1.	Press the SOUND button
2.	Press the F3 (Patch Edit) button

3.	Press the F1 (Parameter) button, enter the name of the patch you want to use. Like if you want to have a patch with drums, enter drums. Set the volume to 127, otherwise you won't hear anything when the patch has been made
4.	Go back to the main menu and select Patch Edit again
5.	Select Split
6.	You will now enter a new menu. At the top of the menu is the name of the patch you've just entered, otherwise rotate the knobs on your W30 and look for the patch you want to make/edit. On the right of the screen there are 2 positions for samples, 1 and 2. With these positions you can enter the samples you want to be put in your own patch. Press any key on your keyboard and in the screen *INFO will light up and you still don't hear a sample playing. Press the SET button and the *INFO will change into SET1. This is what we need to create our own patch
7.	Select the sample(s) you want to put in the patch
8.	Press the keys you want the sample to respond to. This could be the whole keyboard or just 1 key if you like. Do this for each sample you want to put in 1 patch, but try not to press the same key twice with different samples, otherwise you will hear 2 samples playing at the same time
9.	When you are finished, go to the PERFORMANCE mode and you will see your own patch and it will play the sound you want to except maybe on the right frequency and the right volume, so the sample could be higher or lower than the original ? If this is the problem, than you have to remap the sample to the keys?

Remapping a sample

Remapping a sample is needed to put the sample on the right frequency and to let it respond to different volumes.

If you press a key on the keyboard you will hear a sample playing but it doesn't matter how hard or soft you press the key. The volume stays the same. This can be helped by resetting your sample.

1.	Press the SOUND button again and then press the F4 for sound editing I believe
2.	Go editing the parameter of the sample you want
3.	Select the sample you want to edit. press the INIT button. The W30 will ask to you if you want to reset 1 Patch or a whole group of patches. I always select 1 patch at a time because the names will be erased. This way I can easily put the old name back at 1 sample, but imagine when you must replace all right names at all samples.... Its up to you to decide what to do :)
4.	When you have reset a sample, you have to enter the right name again. This should be handy especially when you want to edit this disk again in the future

- | | |
|----|--|
| 5. | <p>The frequency of the sample will be put automatically at C-5.
 Its up to you again to select the key and the right note you want the W30 to play your sample.
 Just got to the C-5 and rotate till it sounds good for you.
 Now your sample is almost ready for use</p> |
| 6. | <p>If the sample is still not quite right, but you can't help it while you're switching a note up or down, then try to get the note to the right frequency by using Finetune
 You can remap the sample up +64 or down -64. The sound will go up/down so you can exactly finetune your sample</p> |

Midi If you want to use the sample in your midi setup, you have to make some changes again.

- | | |
|----|---|
| 1. | <p>Press the SOUND button again and select MIDI-RX or something like that.
 Here you will find all parameters you can control by midi.
 Everything is turned on, but if you don't have innited your sample/patches then everything is turned off, so nothing will respond on your midi messages.
 For example if you want the W30 to respond to your midi volume messages, you have to turn the VOL to on. Thats also the way with the other parameters, but read this in your manual please</p> |
| 2. | <p>Now we're almost done. The last thing to do is to give each patch a different Midi Channel.
 Otherwise you still will hear all sound at one time.
 Press the Sound again</p> |
| 3. | <p>Then press F1</p> |
| 4. | <p>You will see the name of your patches and the channels they react on. If you already have done something the channels are changed, otherwise they all are at Channel 1. Well it's quite easy to change this to other channels.
 Try it.....</p> |

Well This is it !!!!

I must excuse me for my lack in English language. If something isn't clear enough, please mail me.

- You have to buy your own SCSI Cable and a power supply for your CD-rom Player or HD.

At Roland Benulux they asked \$ 175,- USD for the device without HD or CD-romplayer

The deal with the Fujitsu chip costed this person 15 English Pounds

!!! NEW !!!

There is also another chip you can insert in your W30 to get the SCSI device working. I'm not sure if you can buy this chip easily, but ask for it at your local electronical store or contact Fujitsu UK where this deal was closed.

Its the the **FujitsuMB89352AP**.

More precise 'name' to the chip that can be used to replace Rolands KW-30 chip is

'Sharp genuine MB89352 SCSI host adaptor'.

The fellow who tested this didn't get it to work with the W30HDCD for PC, so I put a new version online, but it did work with the W30HDCD for the Apple MAC, but try it yourself

Hard Disks/CD-ROMS that can be used with the W30

Apple Computer, Inc.	CMS Entercements, Inc.	Other
M-2620 (20 megabytes (MB) capacity)	SD-20 (20 MB capacity)	Syquest
M-2644 (40 MB capacity)	SD-60 (60 MB capacity)	
M-2688 (80 MB capacity)	SD-80 (80 MB capacity)	
(SCSI disks for the Apple Macintosh)		

*Apple hard disks are not supplied with a connecting cable, so you will need to purchase the respective cable (25 pin to 50 pin; Apple part # M0206)

There is also another way to connect a harddisk to your W30. Its explained in an email which was send to me:

I use a Quantum 80Meg hard disk. I had some trouble getting it going - it wouldn't format properly. But then I got it going by firstly plugging it into an Apple Mac and formatting using the Apple, and then formatting with the W30. I hope this information is of some use.

Areas on the Hard disk

On a hard disk that has been formatted for use with the W-30, sound data and song data is together saved in terms of certain units, which have their specific place for storage. Each of these units is termed of as an *Area*. Areas are organized in numerical order and indicated by '#(number).'

Data capable of storage in one Area:

<sound data>

Wave data : Banks A & B (512 K words)
32 Tones/Tone parameters [1] - [32]
64 Tones/Tone parameters [33] - [96] (for the W-30's ROM Waves)

16 Patches/Patch parameters

FUNC parameters
MIDI parameters

<Song data>

No. of Songs: Max. 64
No. of steps: Max. of approx. 17,000 steps (total for 64 songs)

Number of areas provided:

20 MB hard disk - 16 areas

40 MB hard disk - 32 areas
60 MB hard disk - 48 areas
80 MB hard disk - 64 areas

CD-Rom players

After several weeks I have come to the conclusion that the only CD-ROM that works with the W30 is those based on the SONY CDU-800x.

You will find them in the Apple CDSC and Apple CDSC+ I think the CD-5 from Roland also have the CDU-800x

Among those CD-ROM drives I have tried that **don't** work is:

Apple 2x, 3x, 4x
NEC 1x, 2x, 3x, 4z, 6x
Toshiba 2x, 3x, 4x
Sanyo 2x
Sony 2x, 3x, 4x

A little thing I notice was that I was not able to use the Apple CDSC with my PC.
At least not under Windows NT.
The SCSI card found it, but not the OS.
So something special is it with that CD-ROM.

How to install the KW30 kit

Ehm yep, a difficult item.

The KW30 SCSI kit is being delivered with a manual. Don't try to look up how you can install the chip. It isn't in it. Another problem is that if you insert the chip the wrong way, it might not work anymore.

I've got mine and I inserted it right so I will tell you how to do it, but I'm not responsible for any faults or errors.

First of all you have to open the W30 with a screwdriver.

The bottom of the W30 can be shifted so you can look inside your own W30.

There are 2 boards in it. One is just behind all the buttons and the LCD display at the front of the W30 the other one is the motherboard of the W30.

Look at the motherboard. There should be a place to put the chip in, otherwise you have to unscrew it and look at the other side.

When you have found this look at the chip. There should be white or black dot on the chip. This is pin 1.

On the motherboard there should also be a dot, so dot and dot should be in 1 place.

another way could be :

The chip has a little hole at the side looks like this :

```
+-----+
|      KW30 SCSI chip      ( <---- The hole !!!!
+-----+
```

This hole should be at the same place as the Hole at the motherboard.

Well inserting is your own problem. It isn't easy because you could easily break one of the pins, so be very carefully with it.

When its inserted insert the new disk and start up the W30 .

It should detect the SCSI device.

Now connect the right Harddisk to it and it should work fine

Have fun or do just like me. Forget to buy a SCSI cable for 3 months :)

Extra memory?

Sad but true,

There was company in Germany called PA-Decoder which made memory expansions.

This company isn't there anymore, maybe they went bankrupt.

The expansion existed out of an internal 40 MB harddisk.

2 new ROMS

4 Places to put new RAMS, plain simms

a New systemdisk with a rewritten OS

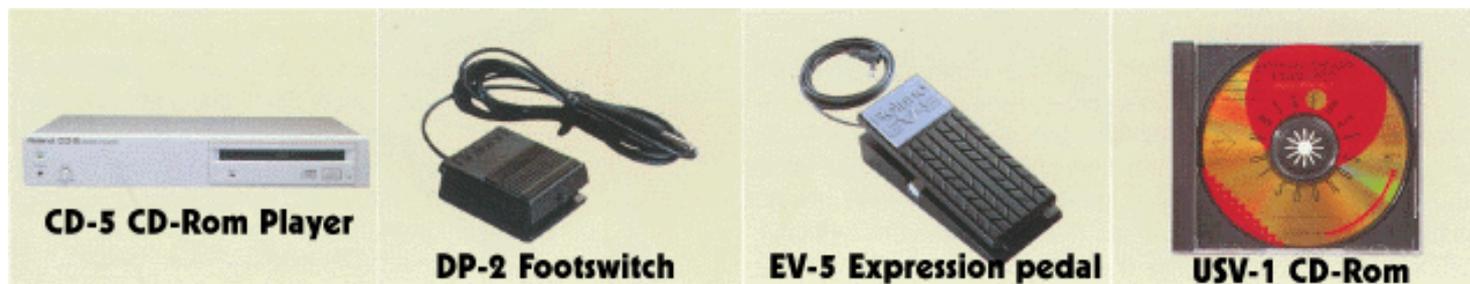
Price in 1990 \$ 3500,- USD

Well as I said, this company isn't there anymore so I think the possibilities for a memory upgrade are now at zero :(

Roland Benelux have told me that there aren't any companies who make them.

I did got hold of the inside schematics of the Roland W30. If you think you can do something with them, maybe trying to make a memory expansion, then wait till I put them online. I hope this will be done ASAP.

Other expansions



ROM Wave-using Tones: 32/Tone Parameters

Patches: 16/Patch Parameters

FUNC Parameters

MIDI Parameters

* **Song & Memory Internal**

Number of Songs: 20 max.

Number of Steps: Max. of approx. 15,000 steps (20 song total)

* **Song Disk**

Number of Songs: 64 max.

Number of Steps: Max. of approx. 100,000 steps (64 song total)

* **Sound & Song Disk**

Number of Songs: 64 max.

Number of Steps: Max. of approx. 7,000 steps (64 song total)

Editing Functions: Track, measure and event basis

Resolution: 96 clock pulses/quarter note

External Synchronization: MIDI Sync Clock, Song Select, Start, Stop, Continue and Song

Position Pointer compatible

Song Data Length: Max. of 9,998 measures

* **Tracks**

Phrase Tracks (16 MIDI Channels/Tracks): 16

Tempo Track: 1

* **Maximum simultaneously inputable sounds**

128 (Total for all tracks)

* **Maximum simultaneously outputable sounds**

128 (Total for all tracks)

* **Keyboard**

61 Keys (aftertouch equipped)

* **Panel**

Bender Modulation Lever

Volume Knob

Performance Button

Sequencer Button

Sound Button

Start/Stop Button

REC Button

Tempo Button

Skip Button

Forward/Reverse Button

LCD Display (240x62 dots)

User Button

Function Buttons (F1 - F5)

EXIT Button

Numerical Keyboard

Cursor Dial

Value Dial

* Rear Panel

Power Switch

Headphone Socket

Multi Output Sockets x8

Input Socket

Gain Knob

MIDI Sockets (THRU, OUT, IN)

Pedal Control Socket (DP-2, EV-5)

SCSI Connector (Compatible with the SCSI Standard)

Contrast knob

* Disk Drive

3.5 Inch Micro Floppy Disk Drive

Storage Type: Double Sided, Double Density, Double Track

* Dimensions

1,014 (W) x 301 (D) x 106 (H) mm

39-15/16" x 11-7/8" x 4-3/16"

* Weight

9.8Kg

* Power Consumption

18W

* Accessories

Owner's Manual for FD

Mode Chart for FD

Sound Chart

MIDI Guide Book

System Disk for FD

Data Disk x3

Connecting Cable PJ-1 x1

* Options

KW-30 (W-30 Upgradekit)

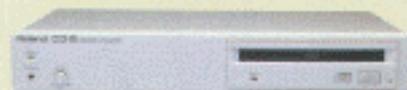
MF2-DD 3.5 Inch Micro Floppy Disks



DP-2 Footswitch



EV-5 Expression pedal



CD-5 CD-Rom Player



USV-1 CD-Rom