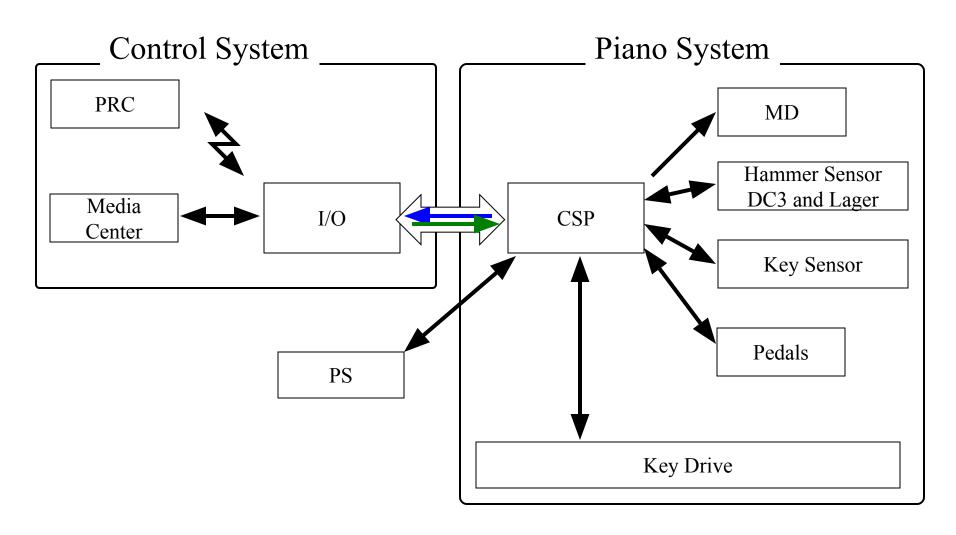
Review of Previous Seminar

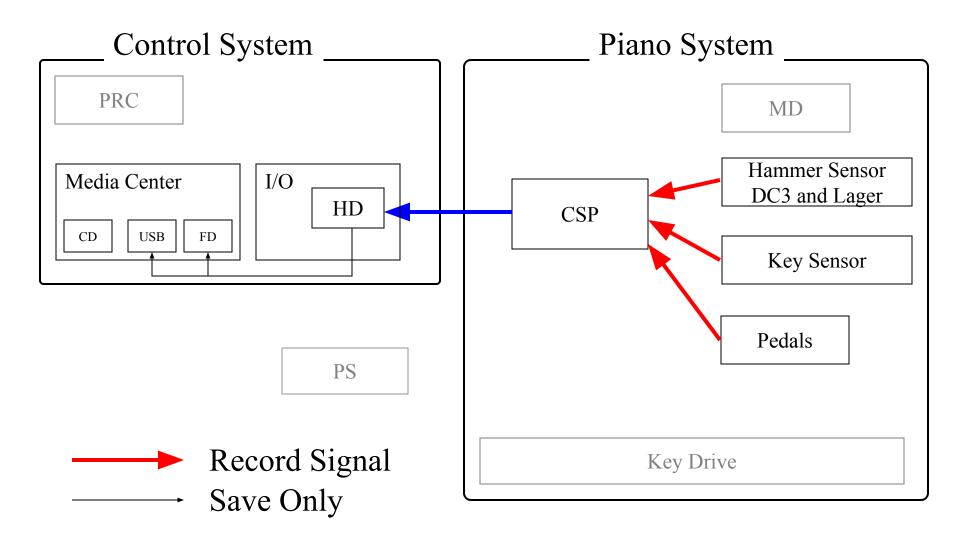
- 1.Overall diagram
- 2.Boot up sequence
- 3. Tools for servicing

YCJ E.P.S.D. (CS planning div.) Yokoyama Sep.27

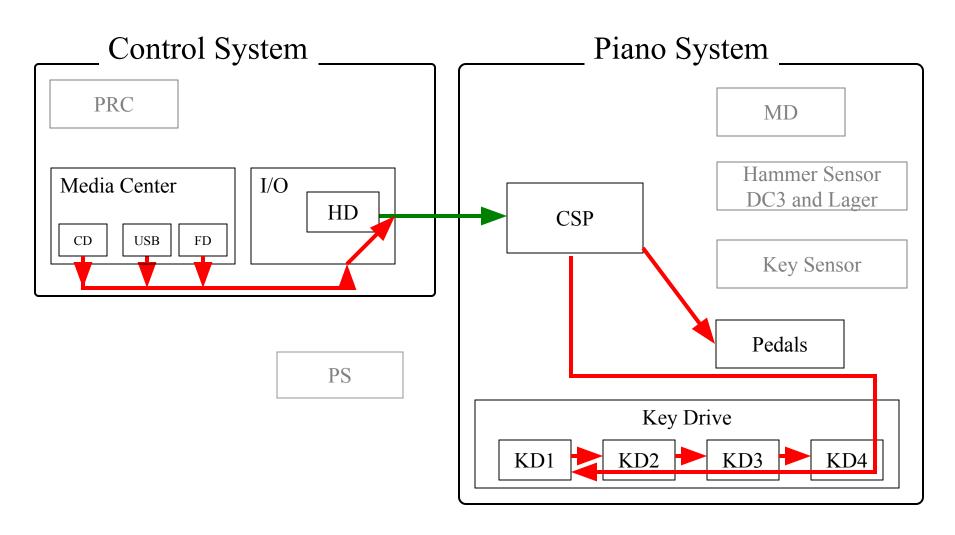
Overall Diagram



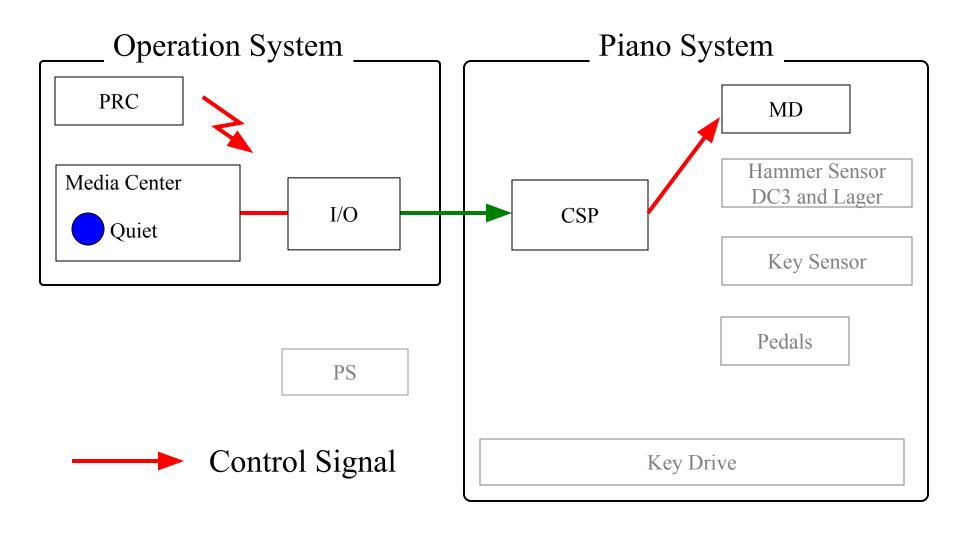
Record Flow Chart



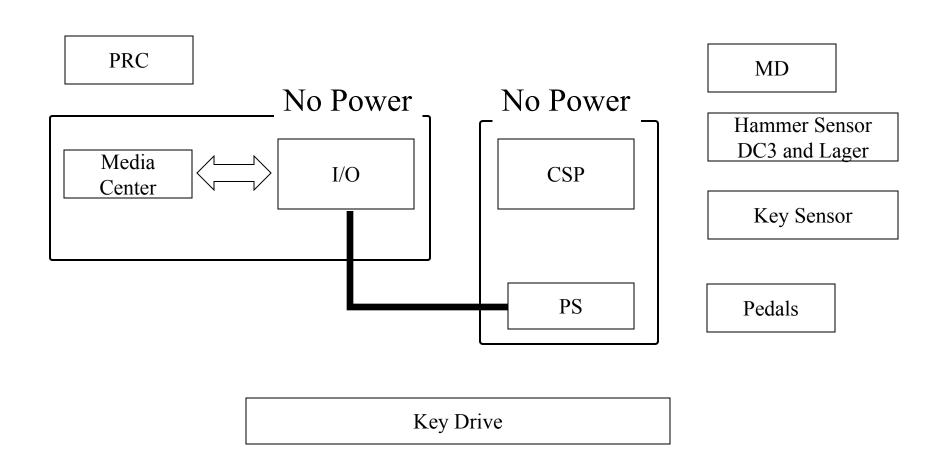
Playback Flow Chart

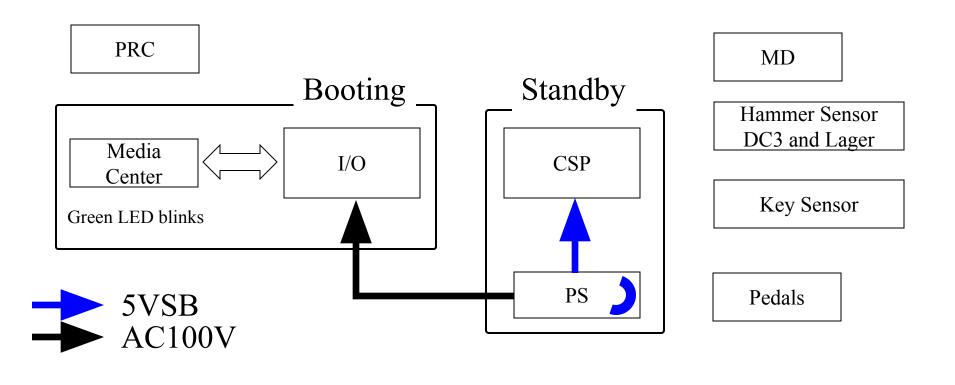


Quiet Mode Flow Chart

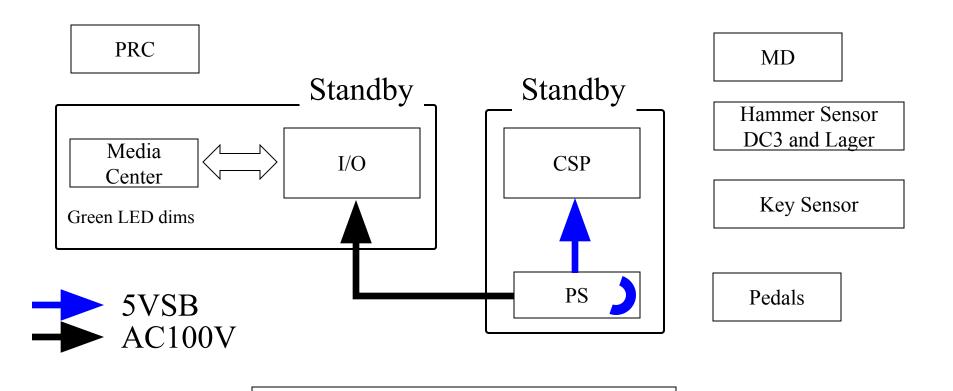


Boot up Sequence

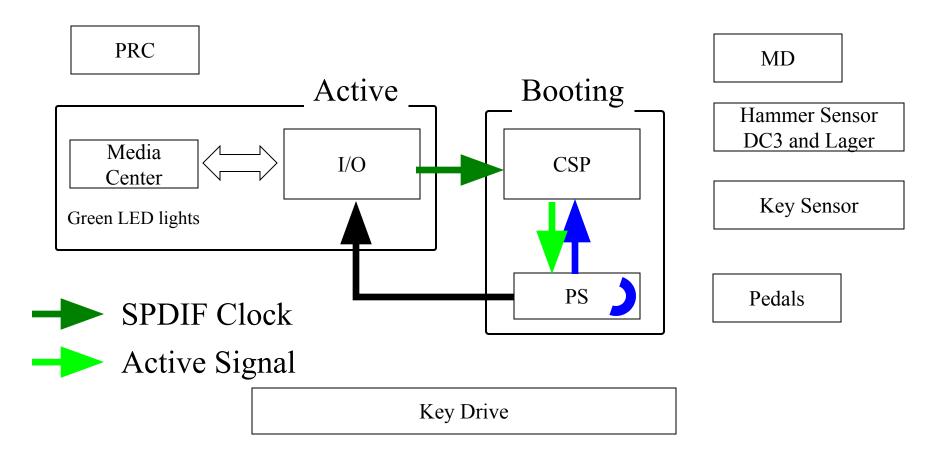


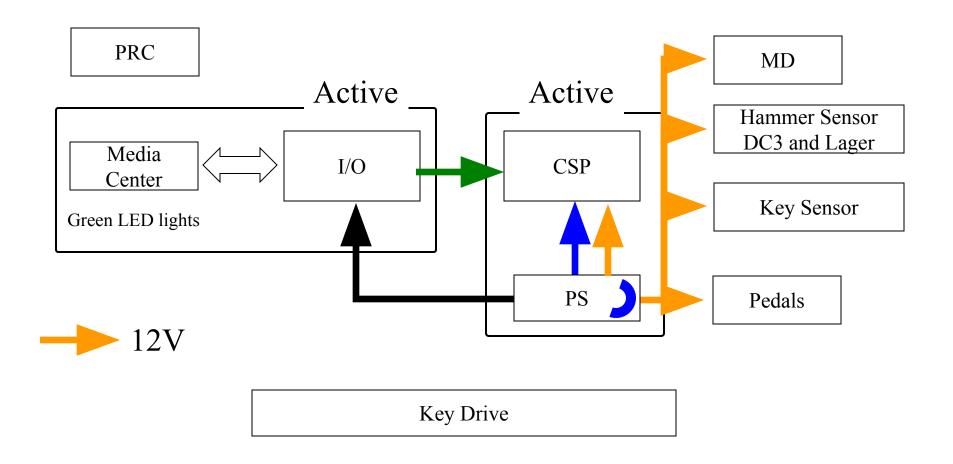


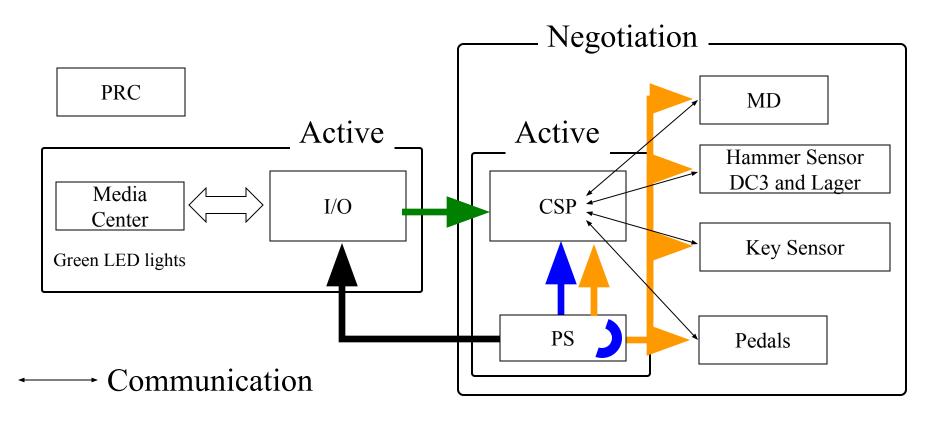
Key Drive



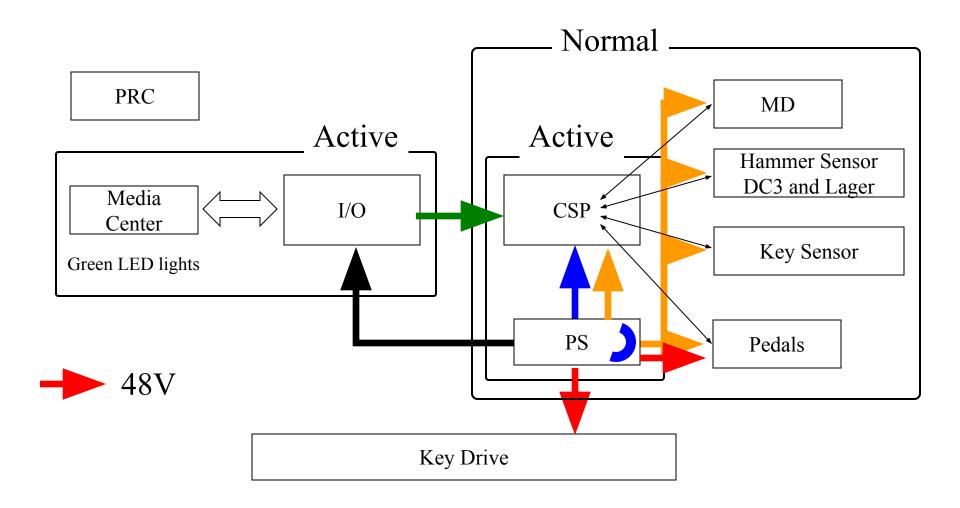
Key Drive







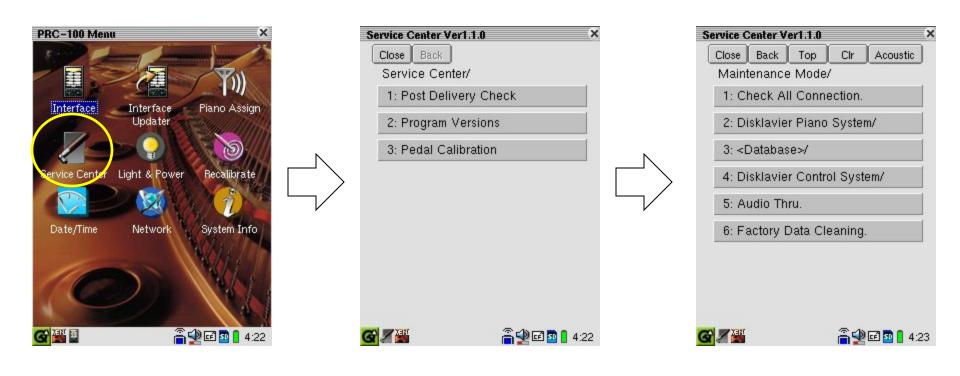
Key Drive



Tools for Servicing

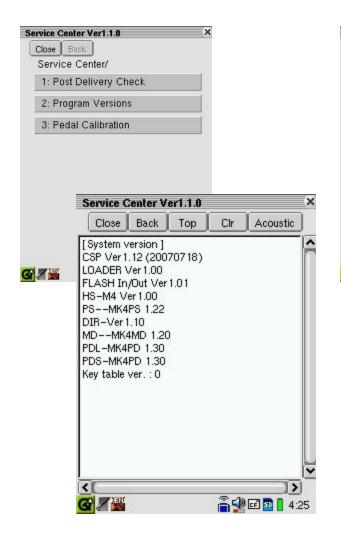
- 1. Maintenance Mode
- 2.LED Diagnostics
- 3. Start up Message of I/O Center

How to Enter Maintenance Mode

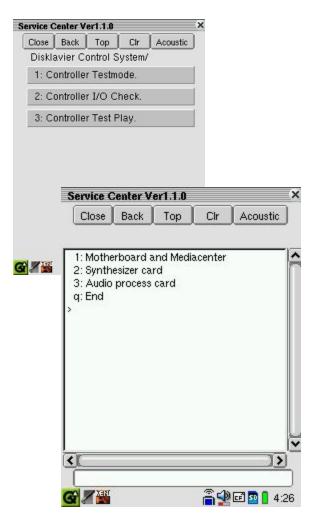


Press and hold keys [D], [M], and [P] in sequence within a second.

Important Maintenance Mode







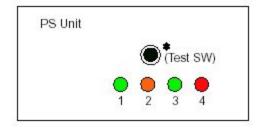
Failure Diagnostics Using LED

1.PS Unit

2.CSP Unit

LED on the PS Unit

Ref No.	Printed	What	Normal		
LD10 (1)	CPU ACTIVE	CPU running state	Lighting/Blinking pattern		
			Piano Standby Status once / 3sec		
			② Time elapsing from Fast blinking status 1 to status 3.		
			③ On Status once /1.5sec		
	52		■ 2 times /3 sec blinking or more during abnormal time.		
LD11 (2)		Power 5VSB (standby) output on	Lighting (green) When primary SW is ON,5VSB is alive. NOTE: In override mode,it is orange. (override mode is made by pushing the Test SW, and Primary SW ON))		
LD5 (3)	+12VOUT	12V output	Lighting (green)		
LD3 (4)	+48VIN	48V output	Lighting (red) When some errors occureds, system will shutdown 48V intet. **Off during abnormal time, but it takes some time until the LED is turned off because a large-volume chemical capacitor is connected.		





LED on the CSP

LD16

LD10

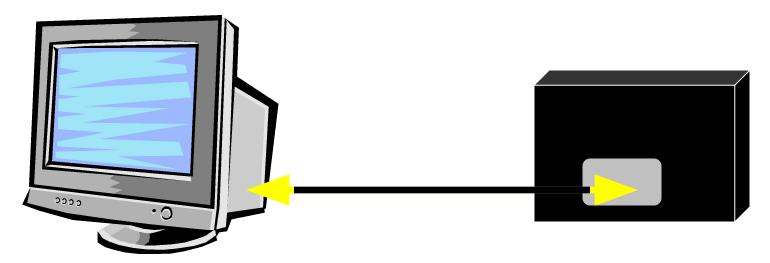
Ref No.	Printed	What		Normal
LD1	12Von		Lighting (green)	
LD2	5VSBon		Lighting (green)	
LD3	-		Lighting (green)	
			Program started at	OSP on CSP.
LD4	***		Blinking (green)	
			Data on start-up is	exchanged between CSP and other units.
			Lighting (green)	
			Above-mentioned data exchange is completed.	
LD6		For design		^
LD9	DSPrun		Blinking (green)	
>000505-			DSP on CSP is working normally.	
LD10	DIR-H8run		Blinking with shorte	r light on time (green)
			No signal is coming	from I/O center. Power of the piano is turned off.
			Blinking with the sa	me lighting time as the extinguished time (light on time and light
			off time are 50%/50	%) (green)
			Receiving signal fro	m I/O center. Power of the piano is turned on.
LD12	3.3VSBon	+3.3VSB	Lighting (green)	
LD13	5Von	+5V	Lighting (green)	CSP Board (Component Side)
LD14	3.3Von	+3.3V	Lighting (green)	
LD15	1.26Von	+1.26V	Lighting (green)	LD3
LD16	DIR-ALIVE	For design		LD4 LD6





Start up message of I/O Center

Connection with I/O Center









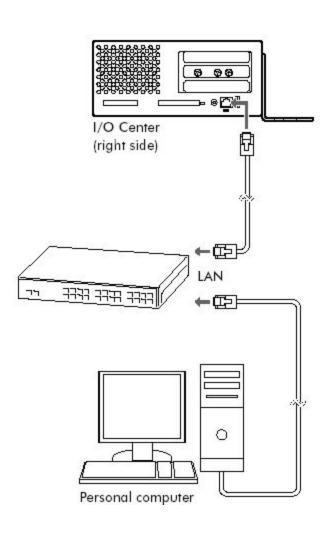
RGB cable or RCA cable

Thank you for your attention

Let's have a 15min break.

From/To PC

From/To PC



- Connect the I/O Center to a LAN
- [Start] -> [My Network Places]
- Open [DKV****] folder.
- Copy the song files to [FromToPC] folder

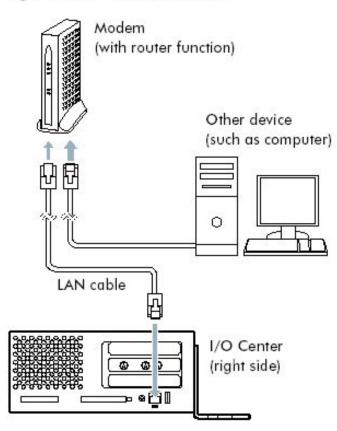


Basic Internet Connection

Connecting the Disklavier to the Internet

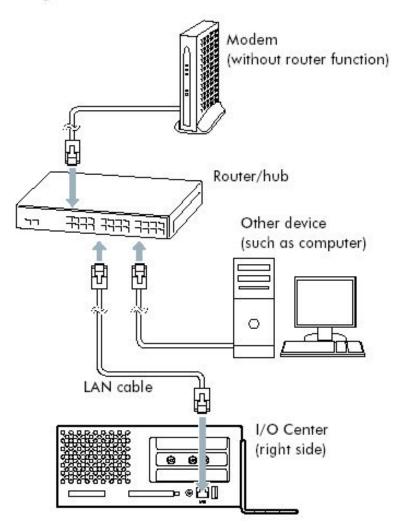
Connection example 1:

Using a modem with router function



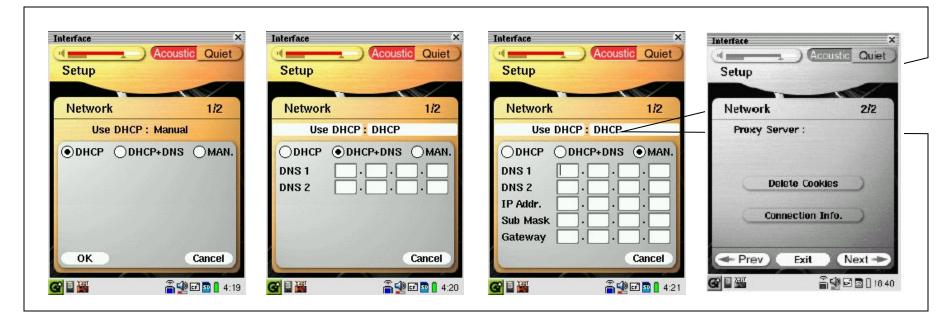
Connection example 2:

Using a modem without router function



Setting Up the Disklavier for Internet Connection

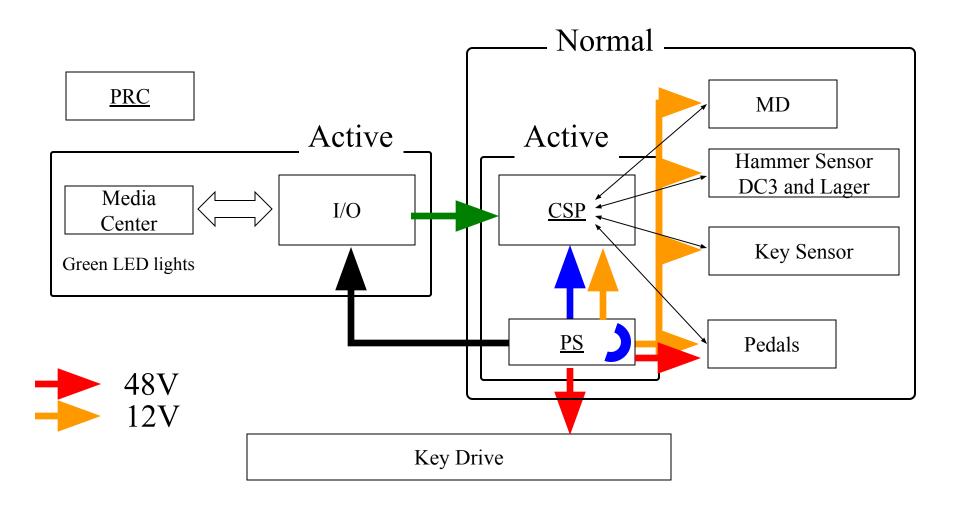




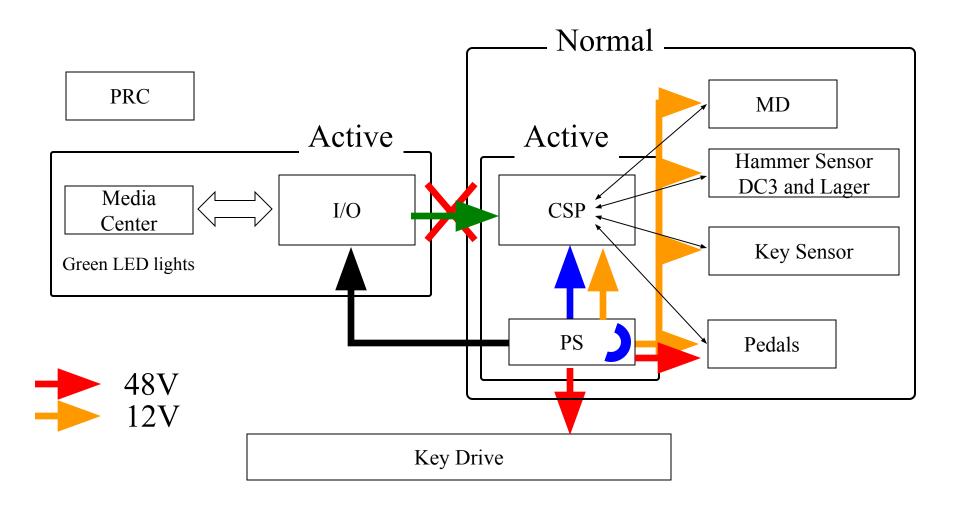
Field Case Analysis

- I/O No booting up
- No Disklavier
 - No Recording, No Playback, No Quiet Mode
- Power Supply (PS) click noise
- PRC unresponsive touch screen
- PRC reinstalling the OS
- etc

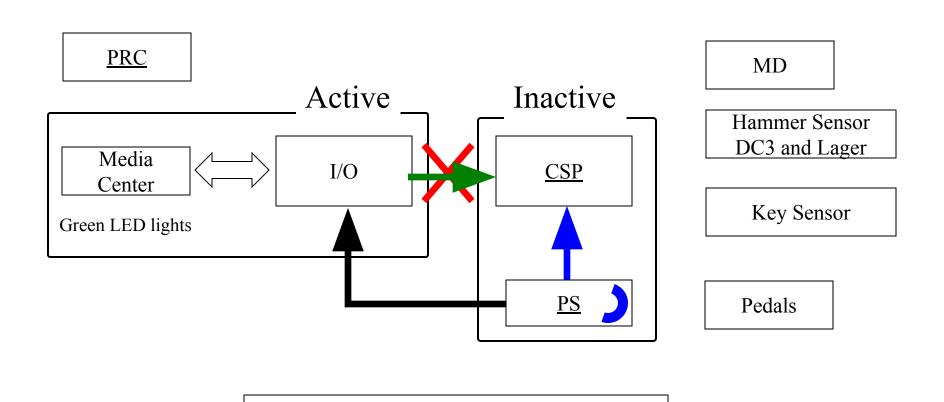
Normal Situation



Abnormal Situation

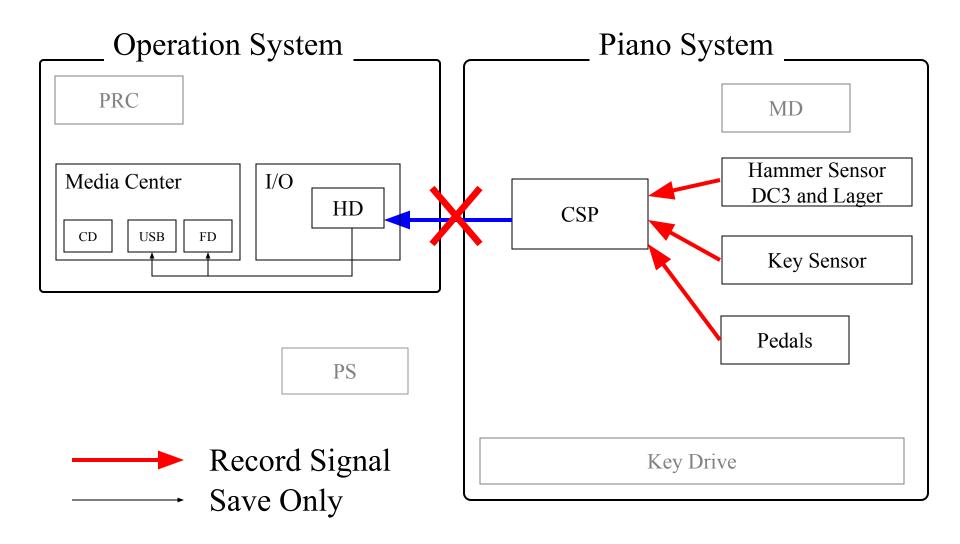


Abnormal Situation

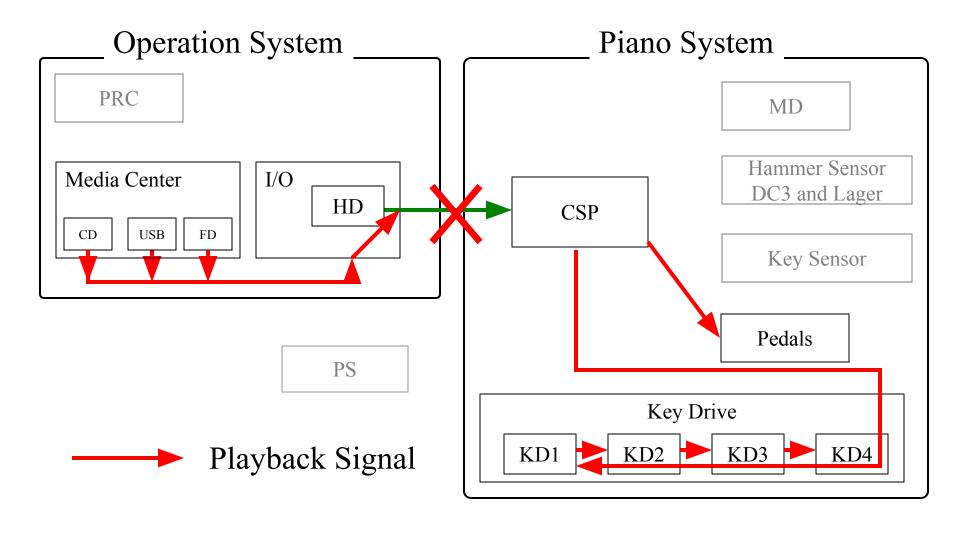


Key Drive

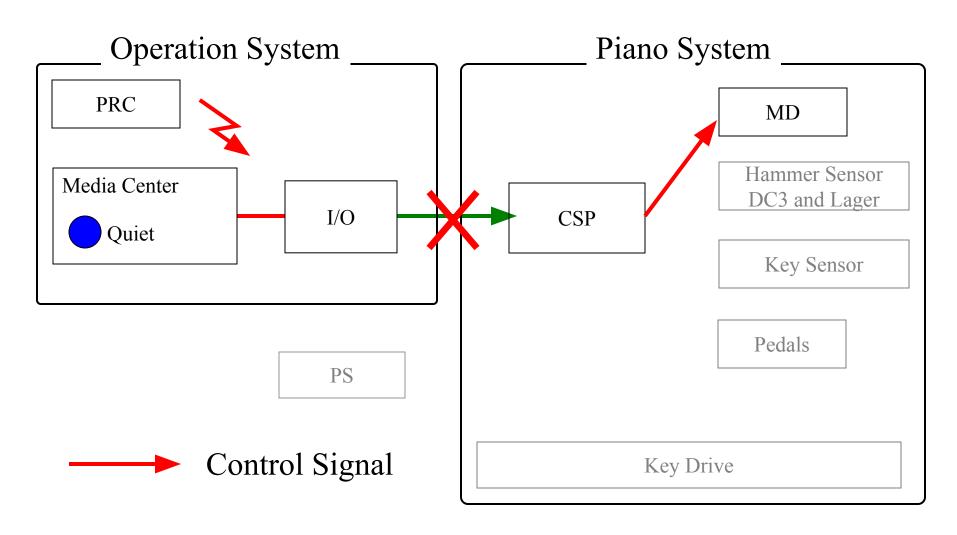
Record Flow Chart



Playback Flow Chart



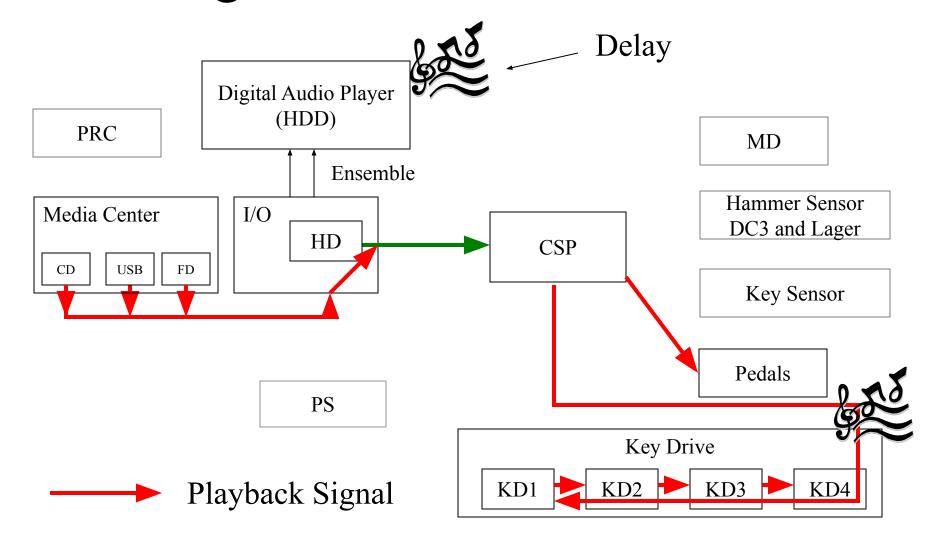
Quiet Mode Flow Chart



RCA cable

- The Green RCA cable is most important for working of the CSP Piano System .
- The Blue RCA cable is important for transmission of the signal from Piano System to I/O Center, especially in the recording mode.

Digital Audio Connection



PRC-100

Fixing the unresponsive Screen

• This procedure is done when the screen does not respond or tapping a specific icon gives us a different result.

Press [Q][F][I]

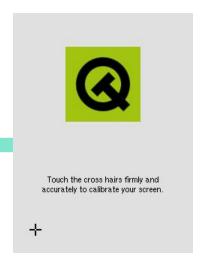






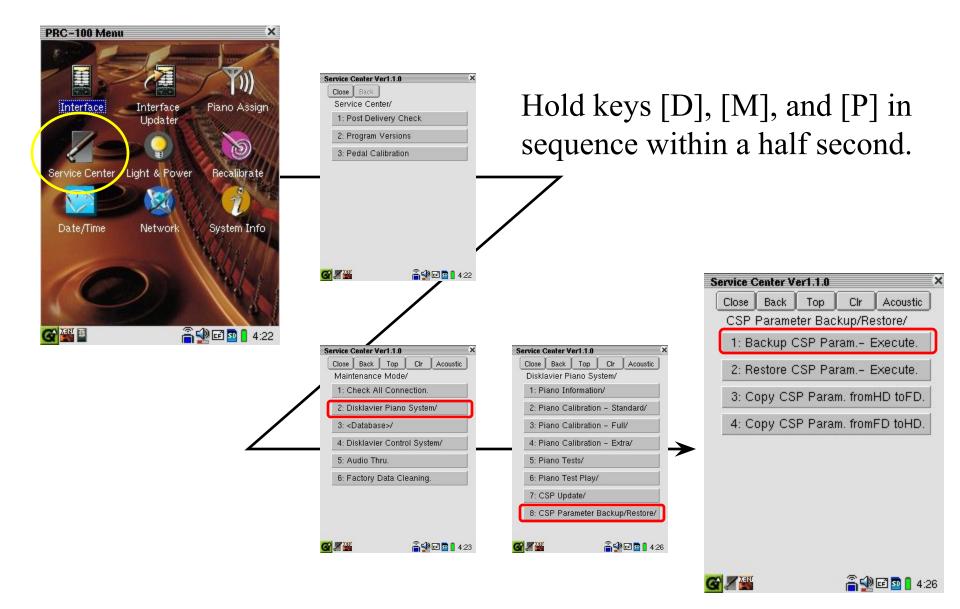
Press [R]



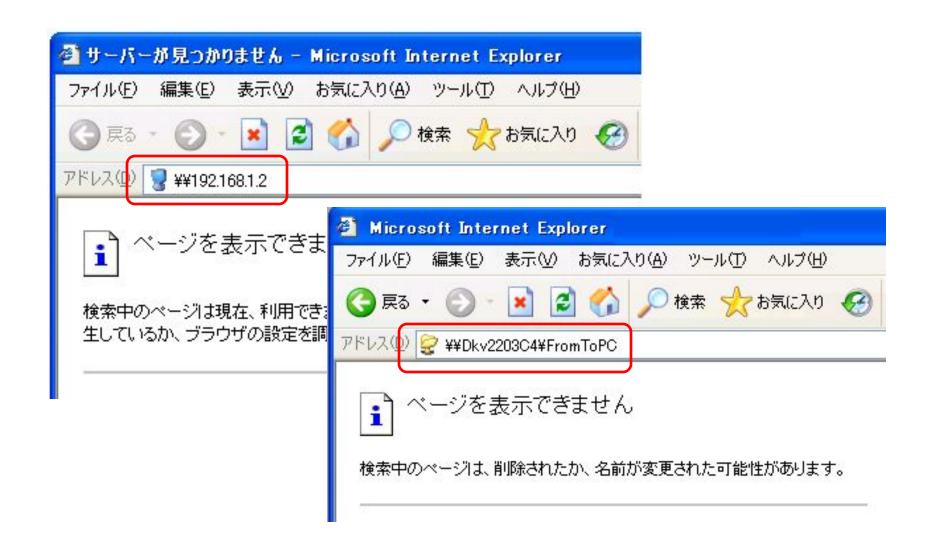


Thank you for your attention

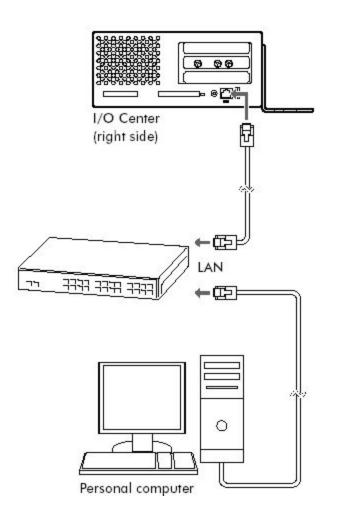
Replacing the CSP Board



Direct Connection Between I/O and PC



Direct Connection Between I/O and PC



Example

DNS1 :192.168.1.1 DNS2 :192.168.1.1

IP :192.168.1.**2**

Sub Mask :255.255.255.0

Gateway :192.168.1.1

Example

DNS1 :192.168.1.1 DNS2 :192.168.1.1

IP :192.168.1.**1**

Sub Mask :255.255.255.0

Gateway :192.168.1.1



ットワークでこの機能がサポートされて ます。サポートされていない場合は、 a ください。	いる場合は、IP 設定を自動的に取得することがて メットワーク管理者に適切な IP 設定を問い合わせ
○ IP アドレスを自動的に取得する(● ※次の IP アドレスを使う(S):	2)
IP 7FLZO:	
サブネット マスク(山):	
デフォルト ゲートウェイ(型):	
○ DNS サーバーのアドレスを自動的	り(C取得する(B)
⑥次の DNS サーバーのアドレスを(更う(E):
優先 DNS サーバー(<u>P</u>):	
代替 DNS サーバー(<u>A</u>):	
	IXAMIQ定(V)_

LEDs on the HS

Ref No.	Printed	What	Normal
LD1	+12VIN	+12V Power Income	lighting(green)
LD2	+3.3DIN	+3.3V Digital Power Income	lighting(green)
LD3	+3.3AIN	+3.3V Analog Power Income	lighting(green)
LD4	DSPCHK	DSP Running	blinking(green)

MK4-HS Board (Component Side)

LD2 (+3.3VDIN)

LD1 (+12VIN) LD3 (+3.3VAIN) LD4 (DSP CHK)

