

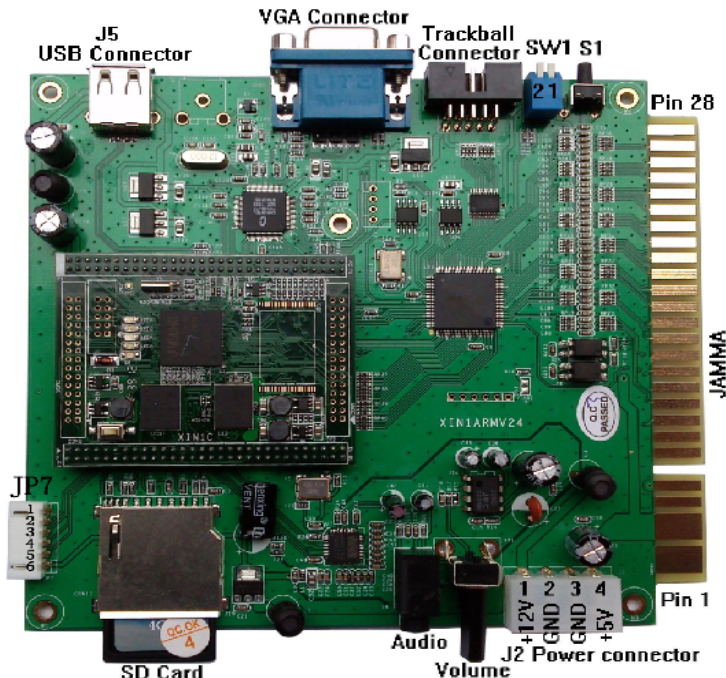
412

ARCADE MANUAL

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Attachment: Game List	

1. Connector Instruction:

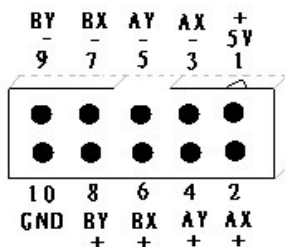


(Figure 1, Game board instruction)

CAUTION: The function of JAMMA connector power and J2 power is same; do not use them together that would destroy game board.

Trackball connection

J6 Trackball Connector



Trackball 6P Connector

1	Black	_____	GND
2	light green	_____	Y +
3	yellow	_____	Y -
4	purple	_____	X -
5	Green	_____	X +
6	Red	_____	+ 5V

Please connect the trackball 1P (A) and 2P (B) to J6 connector accordingly

2. Operation instruction

Remark: The picture of user menu only for reference, any difference, please refers to the products.

Connect the game board and switch on the machine power, after the logo of the “GAME ELF” appear, enter game list menu (about 20s-40s) as the figure 2.

(Figure 2)

- **Caution: press 1P-C button to check the instruction.**

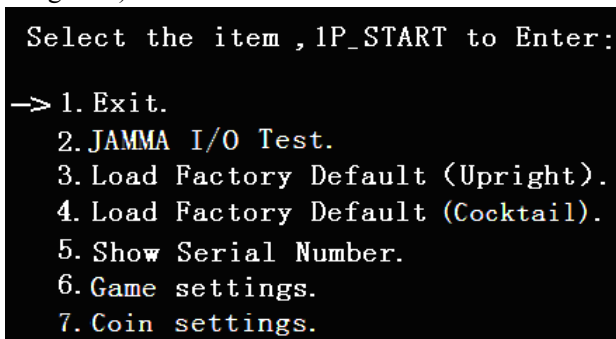
- 1) Insert coins first and select game. (No needs to insert coin for Free play or free browse)
- 2) Select game by moving 1P joystick up or down, and left or right moving is to view game list.
- 3) Press 1P- START button to enter game.
- 4) If **Coin recycling** is set to “No”, after entering the game, all coins the player insert will be inserted into the game automatically. If **Coin recycling** is set to “Yes”, Press 1P START button for 5 seconds or press 1P D button for 3 seconds to pop up menu, and select “continue” to insert coins.
- 5) All games on Cocktail mode and some games on Upright mode need 2 coins (or more coins) and press 2P-START button first to enable 2 players mode. If **Coin recycling** is setted to “Yes”, for these games please press 2P-START to add coins.
- 6) Press 1P-START button for 5 seconds or press 1P-D button for 3 seconds to pop up menu, and select “exit” to return to the game list (as figure 2). Press 1P-Start for 5 seconds to return directly game list when it's in game loading process.

3. System Settings Configuration

- Switch on the machine power, when the string “Press S1 to setup”

Remark: The picture of user menu only for reference, any difference, please refers to the products.

appear, press S1 button to enter the system Settings menu (see the below figure 3)..



(Figure 3)

- Select item by moving 1P joystick up or down and press 1P-START to enter.
- According to the screen display prompts, perform the operation.
- Select “Exit” to quit and re-enter to the game list(as figure 2).

3.1 I/O Test

Check input/output buttons function is ok or no.(It is invalid for family mode.)

3.2 Factory default(Upright)

According to the screen display prompts, perform the operation step by step. All game configurations is returned to factory configuration and loaded of Upright mode.

3.3 Factory default(Cocktail)

According to the screen display prompts, perform the operation step by step. All vertical version of games are loaded of Cocktail

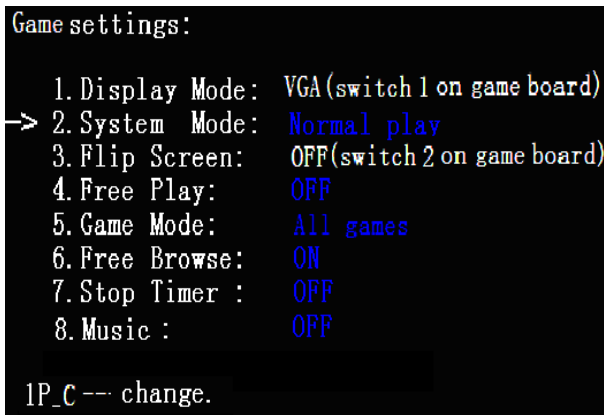
mode.

3.4 Show Serial Number

This serial number is only marked number, we suggest that our customers note this number and be convenient for getting service in future.

3.5 Game Setting

- On the system menu (as figure 3), select item “6.Game Settings” to enter the games setting menu(as figure 4).



(Figure 4)

- Moving 1P joystick up or down to choose item, then 1P-C modify item.
- SW1 switch on game board adjust two items which are “Display Mode” and “Flip screen”.
- After finishing modification, press 1P-Start to save setting(as figure 5),then press 1P-A to return system menu(as figure 3). Select "Exit" to exit, the new configuration is valid after system automatically restarts.



Saving...
Done. 1P_A to continue.

(Figure 5)

3.5.1 Display Mode

The game board supports VGA and CGA display mode, its setting steps as below:

- 1) Adjust PIN 1(DIP switch SW1 on game board) to "ON" status, turn on the power, it shows the VGA display mode.
- 2) Adjust PIN 1(DIP switch SW1 on game board) to "OFF" status, turn on the power, it shows the CGA display mode.
- 3) Regardless of the setting of CGA or VGA mode, VGA port can normally output.

Before power is turned on, adjust PIN 2(DIP switch SW1 on game board) to "ON" status, VGA port output resolution is 640x480; when it's "OFF" status, its resolution is 1024x768.

▲ **Note:** <For SW1 Switch> Before turn on power, its resolution is valid for adjusting PIN 2(DIP switch SW1 on game board). After open the machine, it adjusts to Screen Revolve function.

Caution: After power on, when the system is booting process (it means: before entering the game list interface), do not adjust any one PIN of SW1 DIP switch. Avoid affecting the normal operation!

3.5.2 Flip screen

ON: Open the function--The game screen is rotated 180 degrees.

OFF: Close the function--The game screen is rotated 180 degrees.

Its setting steps as below: After turn on power, adjust PIN 2(DIP switch SW1 on game board) to "ON" status, the game screen is

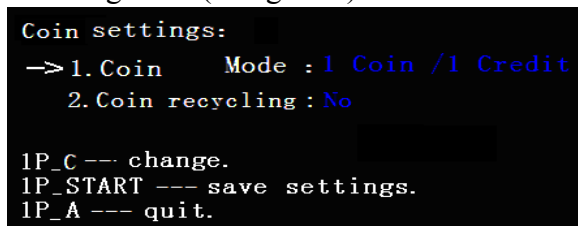
rotated 180 degrees; adjust PIN 2(DIP switch SW1 on game board) to "OFF" status, the game screen isn't rotated 180 degrees.

▲ 3.5.3 System Mode

Edit game list/Game difficult/Lives setting/Game configuration need to enter "Config/Edit Mode". If you don't need to adjust these items, please adjust to "Game Mode (Normal play mode)" for improving system stability.

3.6 Coin Setting

On the system menu (as figure 3), select item "7.Coin setting" to enter Coin setting menu(as figure 6).



```
Coin settings:
->1.Coin      Mode : 1 Coin /1 Credit
    2.Coin recycling : No

1P_C --- change.
1P_START --- save settings.
1P_A --- quit.
```

(Figure 6)

- Moving 1P joystick up or down to select item, then use 1P-C modify the item.

1) **Coin mode:** to modify all games' coin setting.

2) **Coin recycling:** Select Coin recycling to "Yes" or "No".

"Yes": Coins which don't be inserted into game can be returned to the player after quitting the game.

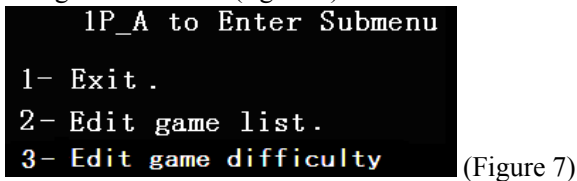
"No": All coins will be inserted into the game, so no coins can be returned to the player after quitting the game.

- Press 1P-START button after finishing the setting and follow the instruction to save.

Remark: in single game mode, please change to "NO" in the coin recycling.

4.Edit game list

- 1) Enter Game Settings interface(as figure 4), set System Mode to Config/Edit mode, then save and quit the system setting. Enter the Game edit interface(as figure 7). (On the Config/Edit mode, press S1 button on the game list menu (figure 2) to enter the below menu also)



- 2) Moving 1P joystick up or down to select “2-Edit game list” and enter the “Edit game list” menu(as figure 8).

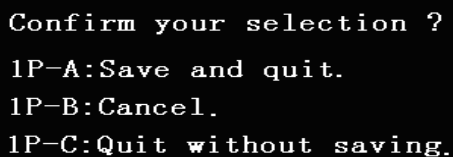


- 3) The item “*” means to show game list, no item “*” that means to hide game list.
- Select game list by moving 1P joystick (up or down to choose game, left or right to view game menu) and press 1P-A to decide

Remark: The picture of user menu only for reference, any difference, please refers to the products.

to show or hide the selected game.

- Press 1P-B button to show all games, press 1P-C button to hide all games.
- 4) After the game list edition is finished, press 1P-START button to enter the save menu (as figure 9). Please follow the instruction to save. Then return to interface (as figure 7), quit “enter game list interface” (as figure 2).



```
Confirm your selection ?  
1P-A: Save and quit.  
1P-B: Cancel.  
1P-C: Quit without saving.
```

(Figure 9)

- 5) After editing the game list, please enter Game setting again (as figure 4), set System mode to Game Mode (Normal play mode) and save it. The game will be started in normal after the system reboot(as figure 2)

5.Single game setting and operation

- 1) Please refer to “Edit game list” as above, and enter the edit game list menu (as figure 8).
- 2) Moving 1P joystick up or down to select game, press 1P-D button to set. If it shows “SET” in front of game title you selected, that means the setting is successful.
- 3) Enter Game settings menu (as figure 4), set the **Game mode** to Single mode, set **System mode** to “Normal play” mode and save it.

The Single mode will be started after re-entering the game.

Remark: in single game mode, please change to "NO" in the coin recycling.

6. Game difficulty and lives setting

1) Enter Game Settings menu (as figure 4), set System mode to Config/Edit mode, save and then enter the menu(as figure 7). Select the item “3.Edit game difficulty” to enter the menu as below(as figure 10).



(Figure 10)

- 1P joystick: to select the game that needs to be changed.
- 1P-A button: to adjust the game difficulty.
- 1P-B button: to adjust the lives
- 1P-C button: to set all games to hardest.
- 1P-D button: to set all games to hard.
- 1P-E button: to set all games to normal.
- 1P-F button: to set all games to easy.

▲ **Notice:** when some games' difficulty show as “x(x)” or lives show as “x”, it means this game has no difficulty and no lives to adjust, or it means this

Remark: The picture of user menu only for reference, any difference, please refers to the products.

game doesn't support to adjust game difficulty and lives. If it is the 2nd option, please enter the game and set the game configuration specifically. (See the detail setting on "Game configuration settings").

- After finishing it, press 1P-START button and follow the instruction to save. Press 1P-A button to save the modified games and press 1P-D button to force to save all games. Saving all games will cost a long time.
- Set the System mode to "Normal play" mode and enter the game list menu (as figure 2) to start game as usual.

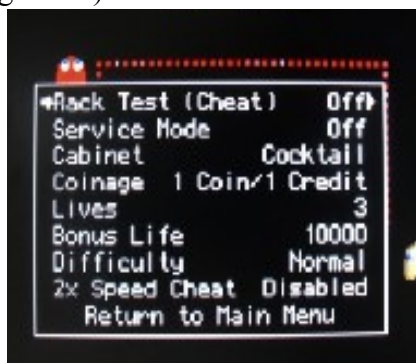
7. Game configuration settings

Way 1 for Game configuration settings:

- 1) Enter the Game settings menu (as figure 4), set **System mode** to "Config/Edit" mode, save and quit the system settings menu, then enter the game list menu (figure 2).
- 2) Moving 1P joystick up or down to select the game you want to change, press 1P-Start button to start game and enter the game configuration editor menu(as figure 11).



(Figure 11)



(Figure 12)

- 3) Move 1P joystick to select "Dip Switches" and press 1P-A button to enter the setting menu(as figure 12). (This operation is invalid

Remark: The picture of user menu only for reference, any difference, please refers to the products.

for some games, please refer to way 2.)

- 4) Select option by moving 1P joystick up or down, and press 1P-C or D button to adjust.
- 5) Select “Return to main menu” to quit the setting menu after setting (as figure 11), and select “Exit game” to back game list (as figure 2). Restart the game, then new settings is valid.
- 6) Please go on to set other games if you need. If not, please set System mode to “Normal play” mode and save it. Re-enter the game list and the game will be started in normal mode.

Way 2 for Game configuration settings (Original configuration adjustments):

- 1) Refer to Way 1, enter the game configuration editor menu(as figure 11), and select the item “Enter Service Mode (if have) ” to enter game’s original setting menu (when some games select this item, it’s need to quit game first and enter again, then enter the game configuration setting menu).
- 2) Follow the instructions of the game configuration setting menu to modify game configuration and save it.
- 3) After finishing it, press S1 to show the game configuration setting menu, select “Exit game” and return to game list menu (as figure 2).
- 2). Enter the game again and the new configuration is valid.

Caution: The game will enter setting menu after starting if “service mode” is set to ON.

Please refer to way 1, set “Service mode” to “OFF”.

- 4) Set the System Mode to “Game Mode” and enter the normal playing mode.

8. S1 button function

- 1) System setting button, press S1 button to enter the system setting menu when the screen show “GAME ELF” logo (as figure 3).
- 2) On the Normal play mode, press S1 button to quit and return to the game list (as figure 2).
- 3) On the Config/Edit mode, press S1 button in the game to pop up or hide the configuration setting menu (as figure 11). Press S1 button on the game list menu (as figure 2), and enter the Edit game list interface.

9. Instruction for Home mode

1) PS2 game controller

Plug-in J5 USB port of game console (as figure 1-1) to PS2 game controller. Switch on the power, after the game controller is detected, the system will enter automatically Home mode.

For One player: connect one of PS2 game controller to J5 USB port of game console.

For Two players: add one USB 2.0 hub, connect two PS2 game controllers to hub, and then connect hub USB port to J5 socket of game console.

2) Free play

No free play on the home mode. Press SELECT to insert coins, and then press START to begin game. Set the game configuration settings to get free playing is available for most games. Please refer to page 11 to get more information.

Remark: The picture of user menu only for reference, any difference, please refers to the products.

3) Define 1P PS2 game controller as below.



(Figure 13)

Press 1P-G and 1P-H bottom at the same time to quit game.(as figure 2)

4) Sleep mode

The idle PS2 game controller will enter sleep mode when power is on.

Caution: When the controller is in sleep mode, the power switch of controller is invalid, you must press START button to wake it up, return to normal working state.

10.Common problems and solutions

Problem: the game screen is not synchronized in the cga mode when game start.

Solution: Adjust the horizontal stabilizer in the game monitor until the image is clearly visible.

11. JAMMA wire map

JAMMA WIRE PAP			
Part side		Soild side	
Definition	PIN	PIN	Definition
GND	1	1	GND
GND	2	2	GND
+5V	3	3	+5V
+5V	4	4	+5V
/	5	5	/
+12V	6	6	+12V
/	7	7	/
/	8	8	/
JMA9	9	9	JMB9
SPEAKER+	10	10	SPEAKER-
JMA11	11	11	JMB11
VIDEO R	12	12	VIDEO G
VIDEO B	13	13	VIDEO SYNC
GND	14	14	SERVICE
TEST	15	15	JMB15
1P-COIN	16	16	2P-COIN
1P-START	17	17	2P-START
1P-UP	18	18	2P-UP
1P-DOWN	19	19	2P-DOWN
1P-LEFT	20	20	2P-LEFT
1P-RIGHT	21	21	2P-RIGHT
1P-A	22	22	2P-A
1P-B	23	23	2P-B
1P-C	24	24	2P-C
1P-D	25	25	2P-D
1P-E	26	26	2P-E
1P-F	27	27	2P-F
GND	28	28	GND

▲ Caution: Do not connect the PIN27 of JAMMA port to ground lead, it will affect the game's playing.

Game list of game elf (Vertical)

001.Ms. Pac-Man
002.Ms. Pac-Man (speedup)
003.Ms. Pac-Man Plus
004.Galaga
005.Frogger
006.Frog
007.Donkey Kong
008.Crazy Kong
009.Donkey Kong Junior
010.Donkey Kong 3
011.Galaxian
012.Galaxian Part X
013.Galaxian Turbo
014.Dig Dug
015.Crush Roller
016.Mr. Do!
017.Space Invaders Part II
018.Super Invaders (EMAG)
019.Return of the Invaders
▲ 020.Super Space Invaders '91
021.Pac-Man
022.PuckMan
023.PuckMan (speedup)
024.New Puck-X
025.Newpuc2
026.Galaga 3
027.Gyruss
028.Tank Battalion
29.1942
030.Lady Bug
031.Burger Time
032.Mappy
033.Centipede
▲ 034.Millipede
035.Jr. Pac-Man
036.Pengo
037.Son of Phoenix
038.Time Pilot
039.Super Cobra
040.Video Hustler
041.Space Panic
042.Space Panic (harder)
▲ 043.Super Breakout

▲ 044.Arkanoïd
045.Super Qix
046.Juno First
047.Xevious
048.Mr. Do's Castle
049.Moon Cresta
050.Pinball Action
051.Scrabble
052.Super Pac-Man
053.Bomb Jack
054.Shao-Lin's Road
055.King & Balloon
▲ 56.1943
057.Van-Van Car
058.Pac-Man Plus
059.Pac & Pal
060.Dig Dug II
061.Amidar
062.Zaxxon
063.Super Zaxxon
064.Pooyan
▲ 065.Pleiads
066.Gun.Smoke
067.The End
▲ 068.1943 Kai
069.Congo Bongo
070.Jumping Jack
071.Big Kong
072.Bongo
073.Gaplus
074.Ms. Pac Attack
075.Abscam
076.Ajax
077.Ali Baba and 40 Thieves
▲ 078.Finalizer - Super Transformation
079.Arabian
080.Armored Car
081.Astro Blaster
082.Astro Fighter
083.Astro Invader
084.Battle Lane!
085.Battle-Road, The
086.Beastie Feastie

Game list of game elf (Vertical)

	087.Bio Attack
	088.Black Hole
▲	089.Block Gal
	090.Blue Print
	091.Bump 'n' Jump
	092.Cavelon
	093.Cheeky Mouse
	094.Circus Charlie
	095.Commando
	096.Darwin 4078
	097.Defend the Terra Attack - UFO
	098.Devil Fish
	099.Devil Zone
	100.Dingo
	101.Disco No.1
	102.Dock Man
	103.Dog Fight (Thunderbolt)
	104.Dommy
	105.Dorodon
	106.Dr. Micro
	107.Dr. Toppel's Adventure
	108.Dream Shopper
	109.Eagle
	110.Eggor
▲	111.Eight Ball Action
	112.Enigma 2
	113.Exciting Soccer
	114.Exerion
	115.Eyes
	116.Fantazia
▲	117.Labyrinth Runner
	118.Fighting Roller
	119.Fire Battle
	120.Fire Trap
	121.Fly-Boy
	122.Free Kick
	123.Funky Bee
▲	124.Funky Fish
	125.Funny Mouse
	126.Future Spy
	127.Galaxy Wars
	128.Gardia
	129.Ghostmuncher Galaxian

	130.Go Go Mr. Yamaguchi
	131.Gorkans
	132.Grobda
	133.Gun Dealer
	134.Guzzler
	135.Gyrodine
	136.Hangly-Man
	137.Hero in the Castle of Doom
	138.High Way Race
	139.Hoccer
	140.Hopper Robo
	141.Intrepid
	142.Jack the Giantkiller
	143.Joinem
	144.Jolly Jogger
	145.Joyman
	146.Jump Coaster
	147.Jungler
▲	148.Crazy Rally
	149.Kangaroo
▲	150.Kaos
	151.Kicker
	152.Korosuke Roller
	153.Lasso
	154.Lock'n'Chase
	155.Loco-Motion
	156.Looping
	157.Lunar Rescue
	158.Mad Alien
▲	159.VS Gong Fight
	160.800 Fathoms
	161.Mighty Guy
	162.Mighty Monkey
	163.Mikie
	164.Minky Monkey
	165.Mission 660
	166.Mister Viking
	167.Money Money
	168.Monkey Donkey
	169.Monster Bash
	170.Moon Alien
	171.Moon Alien Part 2
	172.Moonwar

Game list of game elf (Vertical)

173.Motos
174.Mouser
175.Mr. Jong
176.Mr. Kougar
177.Mr. TNT
178.Mysterious Stones
179.Naughty Boy
180.Naughty Mouse
181.Navarone
182.Net Wars
183.New Sinbad 7
184.Wild Western
185.Nibbler
186.Ninja Emaki
▲ 187.Jackal
188.Gomoku Narabe Renju
189.Nunchackun
190.Oli-Boo-Chu
191.Ozma Wars
192.Pandora's Palace
193.Strata Bowling
194.Percussor, The
195.Perestroika Girls
196.Performan
197.Phozon
198.Pickin'
199.Pinbo
200.Piranha
201.Pisces
202.Pit, The
203.Polaris
204.Pop Flamer
205.Popper
206.Power Surge
207.Pro Baseball Skill Tryout
▲ 208.City Bomber
209.Rafflesia
210.Regulus
211.Road Fighter
212.Roc'n Rope
213.Round-Up
214.Rug Rats
215.S.R.D.S.R.D. S.R.D. Mission

216.SWAT
217.Samurai Nihon-ichi
218.Satan of Saturn
219.Saturn
220.Bagman
221.Scrambled Egg
222.Senjyo
223.Shot Rider
224.Sindbad Mystery
225.Sky Base
▲ 226.Seicross
▲ 227.Space King 2
228.Space Firebird
229.Space Force
230.Space Pilot
231.Space Raider
232.Space Thunderbird
233.Speak & Rescue
234.Speed Ball
235.Springer
236.Star Force
237.Star Jacker
238.Stinger
239.Streaking
240.Super Bagman
241.Super Basketball
242.Super Doubles Tennis
243.Super Galaxians
244.Super Mouse
▲ 245.Gigas
246.Swarm
247.Syusse Oozumou
248.Tactician
▲ 249.Slither
250.Top Roller
251.Tower of Druaga
252.Traverse USA
253.Triple Punch
254.Turpin
255.Tutankham
256.UniWar S
257.Vastar
258.Vulgus

Game list of game elf (Vertical)

	259.Wanted
	260.Warp & Warp
	261.Water Ski
	262.Wiping
	263.Wiz
	264.Woodpecker
	265.Yamato
▲	266.Omega Fighter Special
	267.Zig Zag
	268.Cutie Q
	269.Zodiack
	270.Zzyzyxx
▲	271.Anteater
▲	272.Blades of Steel
▲	273.Bomb Bee
▲	274.Turbo Force
▲	275.Kuhga
▲	276.Thundercade / Twin Formation
▲	277.Devastators
▲	278.Aero Fighters
	279.Sonic Wings
▲	280.Tetris(1P)
▲	281.Truxton / Tatsujin
▲	282.Out Zone
▲	283.Lightning Fighters
▲	284.Super Contra
▲	285.Rally Bike
▲	286.Gang Busters
▲	287.Mercs
▲	288.Time Scanner
▲	289.Varth - Operation Thunderstorm
	290.Argus
▲	291.Image Fight
	292.Youma Ninpou Chou
▲	293.Blast Off
	294.Galaga (fast shoot)
▲	295.Truxton II / Tatsujin II
▲	296.Mahou Daisakusen
	297.Zing Zing Zip
▲	298.Armed Formation
▲	299.Commando
	300.Dragon Spirit
▲	301.Gemini Wing

▲	302.Sky Soldiers
▲	303.TNK III
▲	304.Terra Cresta
▲	305.Air Duel
▲	306.Blazer
▲	307.Gals Panic
▲	308.Quester
▲	309.Caliber 50
▲	310.DownTown
▲	311.Dyger
▲	312.Tiger Heli
▲	313.Slap Fight (Japan)
▲	314.Slap Fight (English)
▲	315.Ikari Warriors
▲	316.Ashura Blaster
▲	317.Master of Weapon
▲	318.Gun & Frontier
	319.Fighting Hawk
	320.Twin Cobra
	321.Flying Shark
	322.Time Soldiers
	323.Battlantis
▲	324.The Hustler
▲	325.War of Aero
▲	326.Galaga '88
▲	327.Assault
▲	328.Dragon Saber
▲	329.Cosmo Gang the Video
▲	330.Sky Fox
▲	331.SAR - Search And Rescue
▲	332.Tail to Nose - Great Championship
▲	333.Super Formula
▲	334.Final Star Force
	335.Galaga '84
	336.Dangar - Ufo Robo
▲	337.Last Duel
	338.Mad Gear
▲	339.Alley Master
▲	340.Legendary Wings
	341.Wrestle War
	342.Block Block
	343.Rompers
▲	344.Bowl-O-Rama

Caution: ▲ No flipped screen's games !

Game list of game elf (Vertical)

▲	345.Twin Eagle
▲	346.Victory Road
▲	347.Extermination
	348.Plus Alpha
▲	349.Bells & Whistles
▲	350.Kageki
▲	351.1941 - Counter Attack
	352.Alpine Ski
▲	353.APB - All Points Bulletin
▲	354.Carnival
▲	355.Electric Yo-Yo, The
▲	356.fastfred
▲	357.Front Line
	358.Green Beret
▲	359.Guerrilla War
▲	360.Journey(1P)
▲	361.Joust 2
	362.Karate Champ
▲	363.Kick
▲	364.Krull
▲	365.Lost Tomb (easy)
▲	366.Up'n Down
▲	367.Mad Planets
▲	368.Mega Zone
▲	369.Phoenix
	370.Q*bert
▲	371.Q*bert's Qubes
▲	372.Qix
▲	373.Qix 2
▲	374.Ring King
	375.Satan's Hollow
▲	376.Sinistar
	377.Solar Fox
▲	378.Space Dungeon
	379.Space Invaders

▲	380.Speed Rumbler, The
▲	381.Tac/Scan
▲	382.Tag Team Wrestling
▲	383.Tempest
▲	384.19XX:The War Against Destiny
▲	385.Time Pilot '84
▲	386.Toobin'
▲	387.Tournament Arkanoid
▲	388.Tron
▲	389.Colony 7
▲	390.Play Girls 2
▲	391.Play Girls
▲	392.Bull Fighter
	393.Evil Stone
	394.Trick Trap
	395.Arkanoid - Revenge of DOH
▲	396.Gorf
▲	397.Arbalester
▲	398.1945k III
▲	399.DonPachi
▲	400.DoDonPachi
▲	401.Dimahoo
▲	402.Fantasia
▲	403.Fantasy '95
▲	404.Gals Panic
▲	405.New Fantasia
▲	406.Super Model
▲	407.Guwange
▲	408.Battle Bakraid
▲	409.Dangun Feveron
▲	410.ESP Ra.De.
▲	411.Spiders
▲	412.Raiden

Special note

1. This price is just for the computer hardware equipment.
2. Customers get the software by their own (including the purchase from the software provider or download free software from related web).
3. The way to get the software:
 - (1) Purchase the software from the software provider.
 - (2) Download the software from the related web.
4. Users assume all the legal consequences due to wrong download and use the software, it is unrelated with the equipment manufacturers and distributors.

