

## TABLEOFCONTENTS

PC B oard C onnectors Layout.t. ..... 1
28 PIN \& 36 PIN Button Layout ..... 2
D ata Setting List ..... 3
M ain M enu ..... 4
Inform ation ..... 5
D ata Setting ..... 6.7
B ookkeep ing ..... 8-11
I/O Test ..... 12
How To Play M ain G am e ..... 13 - 15
How To Play Happy H our ..... 16
How To Play D ino ..... 17
How To Play Savage ..... 18
How To Play D ino Jackpot ..... 19
How To Play Egg Jackpot ..... 20
How To Play Double -U p Game ..... 21. 22
How To Play Bonus G am el ..... 23-24
How To Play Bonus G am e2 ..... 25-26
Troubleshooting ..... 27
SpecialN ote. ..... 28
Passw ord ..... 29
D iag ram ..... 30-31

## PC BOARD CONNECTERSLAYOUT



## 28 P IN \& 36 PIN BUTT0N LAY0UT

## 28 P IN Button Layout



A ccord ing to D iag ram (3).......page. 30
36 PIN Button Layout

0 dds
Auto Play

| Select Line |
| :--- |
| Double up |



## DATA SETT ING L IST

| 1 | COIN IN UNIT | $1,2,4,5,10,15,20,25,50,75,80,100,200,500$ |
| :---: | :---: | :---: |
| 2 | KEY IN UNIT | $1,10,15,20,25,50,75,100,300,500,1000,3000,5000$ |
| 3 | BILL UNIT | OFF , 1, 10, 15, $20,25,50,75,100,300,500,1000,3000,5000$ |
| 4 | KEY OUT AS | AS COIN IN, AS KEY IN, CLEAR ALL |
| 5 | KEY OUT UNIT | $1,2,4,5,10,15,20,25,50,75,80,100,200,500$ |
| 6 | CREDIT LIMIT | $5000,10000,20000,30000,50000,100000,300000,500000,1000000$ |
| 7 | COIN OUT LIMIT | NO LIMIT, 100, 200, 300, 500, 1000, 2000, 3000, 5000 |
| 8 | MAX. BET / LINE | $1,2,3,4,5,6,8,10,15,20,25,30$ |
| 9 | MIN. BET / TOTAL | $1,5,10,15,20,25,50,75,100,125,150,200,250,375,500,625,750$ |
| 10 | JP MIN. BET | $25,50,75,100,125,150,200,250,375,500,625,750$ |
| 11 | DOUBLE UP GAME | ON, OFF |
| 12 | MAIN GAME RATE | 98,97, 96, 95, 94, 93, 92, 91 |
| 13 | PAYOUT RATE | LOW, NORMAL, HI GH |
| 14 | $\begin{gathered} \text { DINO JP } \\ \text { PROGRESSIVE SPEED } \end{gathered}$ | NO PROGRESSIVE, $30,40,50,60,70,80,90,100,110$ |
| 15 | DINO JP MAX. VALUES | MAX_BET* $100,200,300,400,500,800,1000,1200,1500,2000$ |
| 16 | DINO JP MIN. VALUES | JP_BET* 50, $100,200,300,400,500,600,700,800,1000$ |
| 17 | $\begin{gathered} \text { EGG JP } \\ \text { PROGRESSIVE SPEED } \end{gathered}$ | NO PROGRESSIVE, $30,40,50,60,70,80,90,100,110$ |
| 18 | EGG JP MAX. VALUES | MAX_BET* $100,200,300,400,500,800,1000,1200,1500,2000$ |
| 19 | $\begin{gathered} \hline \text { EGG JP MIN. } \\ \text { VALUES } \end{gathered}$ | JP_BET* 50, $100,200,300,400,500,600,700,800,1000$ |
| 20 | DEMO SOUND | ON, OFF |
| 21 | WIN TO | CREDIT, POINT |
| 22 | POINT MODE PLAY | ON, OFF |
| 23 | AUTO PLAY | ON, OFF |
| 24 | DOOR OPEN ALARM | YES, NO |
| 25 | PASSWORD | NO USE, 1, 2, 3, 4, 5, 6, 7 |

## M A IN M ENU



1．Press 《TEST》button to enter the M a in M enu page．
2．The $M$ ain $M$ enu contains：《NFORMATION》，《DATA SETTING》《BOOKKEEPING》 and 《I／O TEST》

3．Press 《TAK E 》 to exitM ain M enu．

## IN FORM ATION

## INFORMATIDN

| GAME NAME | $:$ STONE AGE |
| :--- | :--- |
| GAME TYPE | ：MULTI－LINER |
| DEVELOPER | ：ASTRO CORP． |
| PUBLISH DATE | $: \mathbf{2 0 0 4 / 6 / 1 2}$ |
| VERSION | $: \mathbf{0 . 0 0 . 0 0 . A}$ |

[^0]
## DATA SETTING

## DATR SETTING

COIN IN： 1 COIN 10 CREDITS
KEY IN： 1 TURN 100 CREDITS
BILL IN： 1 PULSE 100 CREDITS
COIN OUT： 1 PAY 10 CREDITS
KEY OUT：AS KEY IN
CREDIT LIMIT： 30000
COIN OUT LIMIT：NO LIMIT
MAX．BET／LINE：10（250）
MIN．BET： 1
JP MINIMUM BET： 125
MORE．．

1 Press 《TEST》 button to enter the M a in M enu page．
2 Select 《DATA SETTING》 to en ter the $D$ ata Setting．
3 Press 《DOUBLEUP》 or 《BET》 to choose the selection．
4 Press 《START》to change the values．
5 Press 《BET》＋《AUTO PLAY》 to load the factory default（D a ta Form at）．
6 Press 《TAKE》to ex itD ata Setting．
7．Press $\langle\mathrm{BET}+\mathrm{ODDS}$ ，to reset the bookkeep ing data，butw ould not change the value in the setting．

## SYSTEM RESET

DO YOU WANT TO RESET ？

## B0 O K K EEP ING

## LRST RECORD

## TOTAL IN

total out
CURRENT CREDIT
CURRENT POINT
TOTAL PROFIT
PAYOUT RATE
MAIN GAME IN
MAIN GAME OUT
MAIN GAME RATE
DB．GAME IN
DB．GAME OUT
DB．GAME RATE
【CLEAR LAST RECORD ：BET＋AUTO】
【NEXT PAGE：BET】【PRED PAGE：DOUBLE】
【EXIT：TAKE】

1／12PAGE

1 Press《TEST》button to enter the $M$ a in $M$ enu．
2 Select 《BOOKKEEPING》 to enter the B ookkeeping．
3 ．Press $\langle$ DOUBLE UP》 or 《BET》 to go to the nextpage．
4 Press 《TAKE》 to ex itB ookkeeping．
5．There are to tall2 pages．（ 6 pages for the LastR ecord and 6 pages forTotal Record）
6 Press 《BET》＋《AUTO》 to clear the＂LastR ecord＂
7．Total Record would not be reset unless to reset the system．

## LRST RECDRD

TOTAL GAME TOTAL HITS tOTAL LOST HIT RATE COIN IN KEY IN
BILL IN COIN OUT KEY OUT CURRENT CREDIT CURRENT POINT

| $\vdots$ | 1 |
| :--- | ---: |
| $\vdots$ | 0 |
| $\vdots$ | 0 |
| $\vdots$ | $0.00 \%$ |
| $\vdots$ | 0 |
| $\vdots$ | 00 |
| $\vdots$ | 0 |
| $\vdots$ | 0 |
| $\vdots$ | 150 |
|  | 0 |

【CLEAR LAST RECORD：BET＋AUTO】
【NEXT PAGE：BET】【PRED PAGE：DOUBLE】


3／12PAGE

## LRST RECDRD

| BONUS TIMES 1 | OUT O |
| :--- | :--- |
| BONUS TIMES 0 | OUT O |
| BONUS TIMES 0 | OUT O |
| BONUS TIMES 0 | OUT O |

HAPPY HOUR TIMES 0
HAPPY HOUR OUT O

【CLEAR LAST RECORD ：BET＋AUTO】
【NEXT PAGE：BET】【PRED PAGE：DOUBLE】

4／12PAGE

## LRST RECDRD

ALL 密 0
all 0
allato
alla 0
alL 0
all 20
all 0
all 0


【CLEAR LAST RECORD ：BET＋AUTO】
【NEXT PAGE：BET】【PRED PAGE：DOUBLE】【EXIT：TAKE】

5／12PAGE

## LRST RECDRD



6/12PAGE

7~12 pages are Total Record. If the Total Record equals to the LastR ecord, the program would not show the TotalR ecord.

## I／0 TEST


$1 \cdot \operatorname{Press}$ 《TEST》button to enter the M a in M enu．
$2 \cdot$ Select《I／O TEST》 to enter the I／O Test．
3•I／O Test includes allkeyboard function testing．
$4 \cdot P \operatorname{ress} 《 T A K E 》$ to exit I／O Test．

## HOW TO PLAY

## A

M A IN GAME


1-15-reel, 25 -liner sty le.
2 - Prize aw arded when 3 orm ore of the sam e sym bollined up in an active line.

PAY CHART





- 15 ~


## B



W hen all 4 comers have "BLUED $\mathbb{N} 0$ " sym bol, player enters the "HAPPY HOUR" bonus round for $45 \sim 90$ seconds. In "HAPPY HOUR", allprizes double.


In the "HAPPY HOUR" bonus, a "HAPPY HOUR" sign show ed on the upper lefthand comer.A tim er show ed on the low er righthand comer.

C

$B$ lue $D$ ino $g$ ives 3 ex tra re-sp ins.


The savage appears occas ionally.


The savage hits and transfom s any random sym bol(s) in to ano ther sym bol(s).


1-W hen lined 3 orm ore "BLUED INO" in an active line, player receives the EGGJP.

(4) Player receives $1 / 2$ of JP
(2) P Player receives $1 / 4$ of JP

3- The M $\mathbb{N}$. value of D $\mathbb{N} 0$ JP can be set in \#16 in the D ata Setting, Range 50~1,000 tim es of JP M $\mathbb{N}$.Bet.

4- The MAX. value of D $\mathbb{N} 0$ JP can be set in \#15 in the Data Setting, Range 100~2,000 tim es of M AX .Bet.

5•The progressive speed ofD IN 0 JP can be set in \#14 in the D ata Setting.


1-W hen lined 3 orm ore "PINKD NO" in an active line, player receives the EGGJP.
2. Player receives allJP

3 Player receives $1 / 2$ of JP
易鼻
Player receives $1 / 4$ of JP
3- The M $\mathbb{N}$. value of EGG JP can be set in \#19 in the D ata Setting, R ange 50~1,000 tim es of JP M $\mathbb{N}$.Bet.

4- The MAX. value of EGG JP can be set in \#18 in the D ata Setting, R ange 100~2,000 tim es of M A X .Bet.

5•The prog ressive speed of EG G JP can be set in \#17 in the D ata Setting.

## G DOUBLEUPGAME



1-Left hand side appears to be the dealer. The dealer w ill choose one card random ly.

2 - Lefthand side appears to be the player. The player chooses a card to outbeat dealer's card. If the player ou tbeat the dealer, the prize doubles. If the dealer w ins, then playerw ould lose allprize. If cards are even, then a lightofB onus w ill be g iven on top of the screen.
3•E lephant $>$ Cat $>\mathrm{M}$ ouse $>$ E lephant


1- In the double up gam e, if player plays even for 5 tim es straight, the door of prize opens

2-There are five doors, and four of the doors are from 1 to 50 tim es of betting and the other one has an an im al sym bol.P layer continually choose doors of prize untilopen ing a doo rw ith an an im al sym bol


W hen all four comers have the sym bol "A X" the playerw ill enter the subgam e, Savage.


1-The playerw illbe giv ing 10 axes to attack the savage.
2 - Stopwatch is showed on the lower right hand corner. Each attack should be done in five seconds; otherwise the ax will be thrown itself.

3-W hen the savage 's be ing attacked by the ax, the scale of livability goes dow $n$ and $m$ ore points w ill be $g$ iven to the player. If the savage blocks the $a x$, the scale of livab ility and po in ts reta in.
4 - The savage occasionally sw ings his wooden stick at player. The screen then tums red, and player loses one ax
5. The follow ing chart represents the odds and the num ber of tim es the savage being attacked.

| HITS | BET X |
| :---: | :---: |
| 1 | 1 |
| 2 | 3 |
| 3 | 5 |
| 4 | 7 |
| 5 | 10 |
| 6 | 30 |
| 7 | 50 |
| 8 | 100 |
| 9 | 200 |
| 10 | 500 |



W hen all four comers have the sym bol "W O ODEN CLU B", the playerw ill en ter the sub-gam e, Egg Challenge.


1-Playerw ou ld choose to break one of the three eggs.W hen playerchooses the egg contains odds multiples, the player scores.W hen player chooses the egg conta ins the dragon w ith flam, the gam e is over.

$2 \cdot$ Player has to choose the egg in 5 seconds, otherw ise the egg would be choosing itself.S topw atch is show ed on the low er righ thand corner.

3•Totalmaxim um of 5 chances to choose. If the player chooses all eggs with odds 5 tim es stra ight, the sco res double.

## SOLUTIONSFOR ERRORS

W hen an error has been detected, an errorm essage would appear in them essage colum n . P lease try the follow ing steps:

## ERROR MESSAGE SO LU T IO NS

| ROM ERROR | 1. Restart the machine. |
| :---: | :---: |
|  | 2. If step 1 does not clear the error, please contact the maker. |
| RAM ERROR | 1. Restart the machine. |
|  | 2. Go to DATA SETTING and Press BET + ODDS to reset. |
|  | 3.If steps 1 and 2 do not clear the error, please either rep lace the RAM or contact them aker. |
| EEPROM ERROR | 1. Restart the machine. |
|  | 2. If step 1 does not clear the error, please contact the maker. |
| COIN JAM | 1. Check the coin acceptor for any jamming. |
|  | 2. Restart the machine and go to the main menu to exit. |
| HOPPER JAM | 1. Check the Hopper for any jamming. |
|  | 2. Restart the machine and go to the main menu to exit. |
| HOPPER EMPTY | 1. Fill up the coins in the hopper. |
|  | 2. Restart the machine and go to the main menu to exit. |
| MAX. CREDIT | 1. Key out or coin out. |
|  | 2. Increase the value of \#6.MAX.CREDIT in the main $m$ enu and continue the gam e. |
| DOOR OPEN | 1. Shut the machine door properly. |
|  | 2. Choose OFF for \#24 DOOR OPEN in the main menu. |
| CALL ATTENDANT | 1. Key out or continue the game. |
|  | 2. Increase the value of \#7 MAX PAY OUT in the main m enu to execu te co in out. |

## SPEC IA L NOT IC E

## <PAY OUTREATE> (\#13 M A IN M ENU)

H igh : G ives outm ore B ig Prize, less M edium and Sm allPrizes.
Nom al: Payout rate nom al.
Low : G ives out more M edium, Sm all Prizes, less B ig Prize. P layerw ins frequen tly

## COIN-IN COUNTER, COIN -OUT COUNTER,KEY-IN COUNTER, and KEY -OUT COUNTER.

CO IN -IN COUNTER :
$1 \cdot$ Foreach co in insert, the CO $\mathbb{N}-\mathbb{N}$ COUNTER clicks once.
$2 \cdot \mathrm{CO} \mathbb{N}-\mathbb{N}$ COUNTER also counts bills.B illU n it is coun ted the sam e as the Coin Unit. A ny rem ainder unit(s) count(s) in the nextround.
Ex: Coin Unit=10, B illUnit $=15$. W hen firstbill inserts, counter clicks once.W hen second bill inserts, coun ter clicks tw ice.

CO IN -OUT COUNTER :
For each co in out, the CO IN -OU T COUNTER clicks once.
K EY-IN COUNTER :
For each key in, the K EY - $\mathbb{N}$ COUNTER click s once.
K EY -OUT COUNTER :
Follow the steps of \#5 in the $m$ ain $m$ enu.
1-The card inal num ber of CO $\mathbb{N}-\mathbb{N}$ orKEY- $\mathbb{N}$ is the num ber of clicks of ASCO $\mathbb{N} \mathbb{N}$ orASKEY $\mathbb{N}$.
$2 \cdot$ The cardinal num ber of KEY $-\mathbb{N}$ is the num ber of clicks of CLEAR ALL.A ny rem aindergoes to the nextcount.

## SETT ING CODE

## SETTING CDDE

0＊＊＊＊＊

PASSWORD NO． 1

【SELECT：DOUBLE】【CHANGE：BET】【ENTRY：START】【EXIT：TAKE】

1 Press 《TAKE》to ex it the Passw ord page．
2 Press $\langle$ DOUBLE》 to select the icons．
3．Press 《BET》to change the value．
4 Press 《START》 to en ter the setting page．

| PASSWORD NO． | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CODE | NO use | 821215 | 106921 | 625806 | 398422 | 298015 | 566480 | 783818 |

## PIN LAYOUT

CONNECTOR (36PIN)

| PARTS SIDE | SLODER SIDE |  |
| :---: | :---: | :---: |
|  | 1 |  |
|  | 2 |  |
| SPEAKER | 3 | SPEAKER GROUND |
|  | 4 |  |
|  | 5 |  |
|  | 6 |  |
| B ILL IN | 7 |  |
|  | 8 |  |
| START / STOP | 9 |  |
| SELECTLINE/DOUBLE | 10 |  |
| BET | 11 |  |
| TAKE | 12 |  |
| A U T0 | 13 |  |
|  | 14 |  |
|  | 15 |  |
| 0 D D S | 16 |  |
|  | 17 |  |
| CO IN IN SW ITCH | 18 | K EY IN SW ITCH |
|  | 19 |  |
| ACCOUNT SWITCH | 20 | TEST SW ITCH |
| PAY OUT BUTTON | 21 | KEY OUT SWITCH |
|  | 22 | H OPPER SW ITCH |
| COIN IN COUNTER | 23 |  |
| KEY IN COUNTER | 24 | H OPPER SSR |
|  | 25 |  |
|  | 26 |  |
| HOPPER COUNTER | 27 |  |
| KEY OUT COUNTER | 28 |  |
| STARTLAM P | 29 | (*3) COIN INHIBIT |
| SELECTLINE / DOLBLELAMP | 30 | ERROR LAM P |
| BETLAM P | 31 | W IN LAM P |
| TAKELAM P | 32 |  |
| AUTO LAM P | 33 |  |
| 0 D D S LAM P | 34 |  |
|  | 35 |  |
| G ND | 36 | G ND |

CONNECTOR (10PIN)

| PARTSSIDE |  | SLODERSIDE |
| :---: | :---: | :---: |
| GND | 1 | GND |
| GND | 2 | GND |
| +5 V | 3 | +5 V |
| +5 V | 4 | +5 V |
| +12 V | 5 | +12 V |
| +12 V | 6 | +12 V |
| (*1) BA INH IB IT | 7 |  |
| (*2) H PPPER SSR | 8 |  |
| GND | 9 | GND |
| GND | 10 | GND |

(*1) BA Inhibit active low.
(*2) This pin is connected with the solder side 24th pin of connector 36 pin.
(*3) The coin accepter can only be started when under <LOW>.

CONNECTOR (28PIN)

| PARTSSIDE |  | SLODER SIDE |
| :---: | :---: | :---: |
| G ND | 1 | G ND |
| G ND | 2 | G ND |
| $+5 \mathrm{~V}$ | 3 | $+5 \mathrm{~V}$ |
| $+5 \mathrm{~V}$ | 4 | $+5 \mathrm{~V}$ |
|  | 5 |  |
| +12V | 6 | +12V |
|  | 7 |  |
| COIN IN COUNTER | 8 | HOPPER COUNTER |
| KEY IN COUNTER | 9 | KEY OUT COUNTER |
| SPEAKER | 10 | SPEAKER GROUND |
| KEY IN SW ITCH | 11 | PAY OUT BUTTON |
|  | 12 |  |
|  | 13 |  |
| G ND | 14 | TEST SW ITCH |
| ACCOUNT SWITCH | 15 |  |
| COIN IN SW ITCH | 16 | ERROR LAM P |
| START /STO P | 17 | STARTLAM P |
| BILL IN | 18 | TICKET SSR |
|  | 19 | W IN LAM P |
| SELECTLINE/D0UBLE | 20 | SELECTLINE / DOUBLE LAMP |
| TAKE | 21 | TAKELAM P |
| A U T0 | 22 | AUTO LAM P |
| BET | 23 | BETLAM P |
| 0 DDS | 24 | ODDSLAM P |
|  | 25 | KEY OUT SWITCH |
| HOPPER SSR | 26 | H OPPER SW ITCH |
| G ND | 27 | G ND |
| G ND | 28 | G ND |


[^0]:    1 ．Press《TEST》button to en ter the $M$ ain $M$ enu ．
    2．Select 《INFORMATION》 to en ter the Inform ation page．
    3．Press 《TAKE》 to ex it the Inform ation page．

