BORDEN
TECHNOLOGY CORPORATION

HUGA

Display mode : XVGA
Resolution: 1024X768
Formats: 4:3
Vertical Scan Freq : 60Hz
Horizontal Scan Freq : 48kHz

BORDEN
TECHNOLOGY CORPORATION

Game development and manufacturing

HUGA

American Display mode:XVGA

INTRODUCTION

SYSTEM SET UP

WIRING DIAGRAM

1. Huga is an alluring 15-reel 9-line game.
2. Select to bet on 1line, 3 lines, 5 lines, 7 lines or 9 lines by pressing the [Line] button.
3. Press the [Bet] button to increase the bet or press the [Max Bet] button to maximize the bet on the selected line.
4. Press the [Start] button to spin the reels which will stop automatically. Or press the [Stop1]~[Stop5] or [All Stop] to stop corresponding reels.
5. Player wins if three or more same symbols link one another along the left or right side on a selected line.
6. Press the [Start] button to take win and continue the basic game or press the [Double] to enter the double-up game.
7. Press the [Auto] button to turn on or off the auto play mode. However, if the credit points are not enough, the auto play mode is disabled.

GUNS SYMBOL

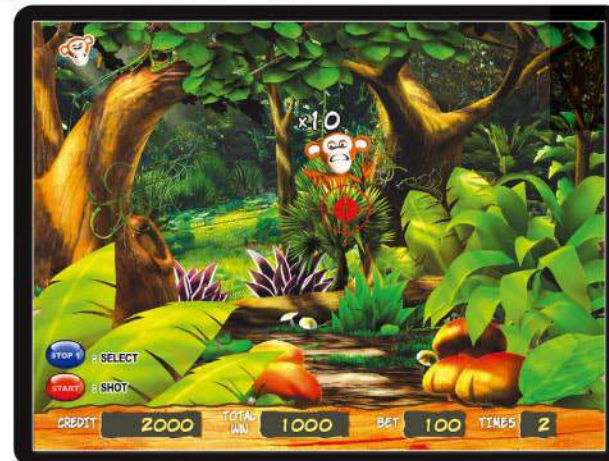The wild symbol can substitute for any other symbols!

The wild symbol can substitute for any other symbol!

|					
Bonus Game x 3
Bonus Game x 2
Bonus Game x 2
Bonus Game x 1
Bonus Game x 1

If there are three or more ⚔ appear in a roll on the left or the right side of the winning line, the player can enter the Bonus Game.

BONUS GAME

BONUS GAME I Hunting

There are 15 hidden places in the forest. Press the [Stop1] button to aim at different target places and press the [Start] button to shoot. The winning points will be certain multiples of the total bet. The multiple will be shown next to the animal that got shot
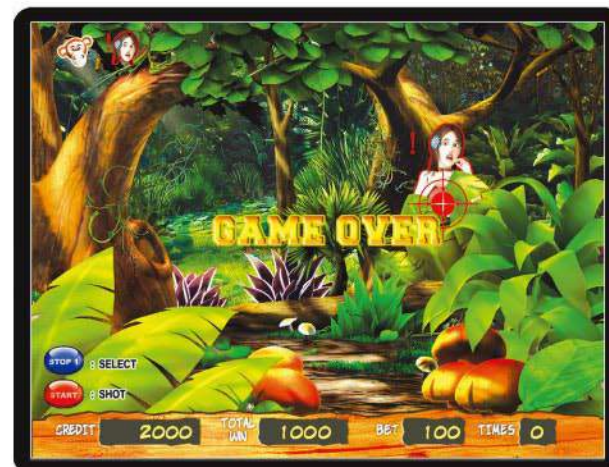
The player can aim at different target places and continue the hunting until the girl is shot or all animals are shot. If the player hunts all 14 animals, the system enters BONUS GAME II.

DOUBLE-UP GAME

BONUS GAME II   Coconut Tree Shaking

There are many coconuts on the tree. The player should keep pressing the [Start] button as fast as possible within the time limit. The monkey will clutch the trunk of the tree and shake. The speed of pressing the [Start] button will appear on the level meter and affect the quantity of the falling coconuts. A player will win the multiple point of each falling coconuts. When time is up, the system will return to the basic game.

After winning each basic game, the player can select to continue the game or enter the double-up game. The double-up is a rock-paper-scissors game. The player plays the game with the dealer by choosing [rock], [paper], or [scissors]. If the player wins, the winning points in the basic game will be doubled up; otherwise, the winning point will be reset to zero and the system will return to the basic game. If the player draws with the dealer, the winning points will be put aside temporarily. In the following play, the points will be added to the new winning points if the player wins. After each play, the player could select to return to the basic game with the accumulated winning points.

SYSTEM SET UP

Message Removal

When any one of the messages below is shown on the screen,
please remove it in the following ways after the corresponding condition is removed :

Messages	Way to Remove the Message
COIN JAM	After reseting error,press the record button to clear the error message.
CREDIT LIMIT	After reseting credit limit,press the keyout button to clear the error message.
HOPPER ERROR	After reseting hopper error,press the keyout button to clear the error message.

TEST/SET UP

Press [SET UP] button when power is ON to enter TEST/SET UP screen:

TEST/SET UP
1.SET UP RECORD
2.IN/OUT SET UP
3.FUNCTION SET UP
4.PASSWORD SET UP
5.RELOAD DEFAULT
6.EVENT RECORD
7.TEST
8.CLEAR THE RECORD
【STOP1】:MOVE UP 【STOP2】:MOVE DOWN 【STOP5】:ENTER 【START】:EXIT

*4.PASSWORD SET UP

ADMINISTRATOR PASSWORD
CHANGE THE ADMINISTRATOR PASSWORD
USER PASSWORD
CHANGE THE USER PASSWORD
PASSWORD TO SPECIAL PAGE : ON / OFF
DEFAULT ADMINISTRATOR PASSWORD:1111
DEFAULT USER PASSWORD:1212

STOP1 :1   STOP2 :2   STOP3 :3   STOP4 :4   START   : CANCEL

【STOP1】: MOVE UP 【STOP2】: MOVE DOWN 【STOP3】: OFF 【STOP4】: ON 【STOP5】: ENTER 【START】: EXIT

*5.RELOAD DEFAULT

IF YOU WANT TO RELOAD DEFAULT ,PLEASE PRESS BOTH STOP5 AND HELP TOGETHER, AND HOLD FOR 5 SECONDS.
●ATTENTION ! AFTER RELOAD DEFAULT,THE MACHINE WILL RETURN TO THE ORIGINAL SET UP !

6.EVENT RECORD

TOTAL EVENT RECORD	▶	LAST 256 TIMES RECORD
IN/OUT METER EVENT RECORD	▶	KEYIN , KEYOUT AND PAYOUT RECORD
GRAND PRIZES RECORD	▶	ALL PRIZES RECORD

【STOP1】 : LAST PAGE 【STOP2】 : NEXT PAGE 【START】: EXIT

7.TEST

Button test

PRESS TO CHECK IF EACH BUTTON IS ON AND MARK ☑

COIN	STOP1 /SCISSORS/LINE
STOP2/DOUBLE-UP	STOP3/ROCK/HELP
STOP4/ PAPER	STOP5/BET
NOTE	START/TAKE WIN/ALL STOP
CLEAR	RECORD
SET UP	PAY OUT
TICKET OUT	TICKET NOTCH
HOPPER SW	

【START+HELP】: EXIT

MUSIC TEST ADJUSTMENT SOUND TRACK 1 SOUND TRACK 2 SOUND TRACK 3 SOUND TRACK 4
PRESS STOP5 TO TEST THE SOUND.

【STOP1】 : MOVE UP 【STOP2】: MOVE DOWN 【START】: EXIT

PICTURES TEST PRESS STOP5 TO CONTINUE OR STOP THE TEST

★ TO ENTER THE PAGE, A PASSWORD IS NEEDED.
◎ INCORRECT PASSWORD FOR THREE TIMES CONSTANTLY, PLEASE WAIT FOR 30 MINUTES TO ENTER ANOTHER PASSWORD.

Message Removal

When any one of the messages below is shown on the screen,
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TEST/SET UP
1.SET UP RECORD
2.IN/OUT SET UP
3.FUNCTION SET UP
4.PASSWORD SET UP
5.RELOAD DEFAULT
6.EVENT RECORD
7.TEST
8.CLEAR THE RECORD

【STOP1】:MOVE UP 【STOP2】:MOVE DOWN 【STOP5】:ENTER 【START】:EXIT

TEST/SET UP

1.SET UP RECORD

THE LAST TIME TO RELOAD DEFAULT
THE LAST TIME TO CHANGE IN/OUT SET UP
THE LAST TIME TO CHANGE RATE SET UP
THE LAST TIME TO CHANGE FUNCTION SET UP
THE LAST TIME TO TURN ON
THE LAST TIME TO CLEAR THE CURRENT RECORD
THE LAST TIME TO CLEAR THE RECORD

【START】: EXIT

★2.IN/OUT SET UP

COIN
COIN RATE : 1000、500、250、200、100、80、75、60、50、40、30、25、20、15、10、5、4、2、1、OFF
NOTE
NOTE RATE:1000、500、250、200、100、80、75、60、50、40、30、25、20、15、10、5、4、2、1、OFF
CLEAR
CLEAR RATE: 1000、500、250、200、100、80、75、60、50、40、30、25、20、15、10、5、4、2、1、OFF
PAY OUT
PAY OUT RATE: 1000、500、250、200、100、80、75、60、50、40、30、25、20、15、10、5、4、2、1、OFF
HOPPER SWITCH
HOPPER SWITCH: NO、NC
PAY OUT OPTION
PAY OUT OPTION: TICKET DISPENSOR、HOPPER

【STOP1】: MOVE UP 【STOP2】: MOVE DOWN 【STOP3】: + 【STOP4】: - 【START】: EXIT

★ TO ENTER THE PAGE, A PASSWORD IS NEEDED.
◎ INCORRECT PASSWORD FOR THREE TIMES CONSTANTLY, PLEASE WAIT FOR
   30 MINUTES TO ENTER ANOTHER PASSWORD.

★3.FUNCTION SET UP

GAME RATE : 98、97.75、97.5、97.25、97、96.75、96.5、96.25、96、95.75、95.5、95.25、95
94.75、94.5、94.25、94

DOUBLE UP RATE : 99、98.50、98、97.50、97、96.50、96

MAX BET   THE RATE INFLUENCES CREDIT LIMIT、MINI BET、BET PER LINE、DOUBLE-UP GAME.

MAX BET : 450、360、270、180、90、45

CREDIT LIMIT   WHEN EXCEEDS THE CREDIT LIMIT RATE ,WILL SHOW THE 『CREDIT LIMIT』 MESSAGE.

WHEN THE MAX BET IS 450,THE NUMERICAL : NO RESTRICTION、2000000、1000000、500000
WHEN THE MAX BET IS 360,THE NUMERICAL : NO RESTRICTION、1600000、800000、400000
WHEN THE MAX BET IS 270,THE NUMERICAL : NO RESTRICTION、1200000、600000、300000
WHEN THE MAX BET IS 180,THE NUMERICAL : NO RESTRICTION、800000、400000、200000
WHEN THE MAX BET IS 90,THE NUMERICAL : NO RESTRICTION、400000、200000、100000
WHEN THE MAX BET IS 45,THE NUMERICAL : NO RESTRICTION、200000、100000、50000

MINI BET
X1 AND X9

BET PER LINE
WHEN THE MAX BET IS 450,THE NUMERICAL : 10、5
WHEN THE MAX BET IS 360,THE NUMERICAL : 10、5
WHEN THE MAX BET IS 270,THE NUMERICAL : 10、5、3
WHEN THE MAX BET IS 180,THE NUMERICAL : 10、5、2
WHEN THE MAX BET IS 90,THE NUMERICAL : 5、2、1
WHEN THE MAX BET IS 45,THE NUMERICAL : 2、1

DOUBLE UP   WHEN "OFF" IS SELECTED, THE ENTRY OF THE DOUBLE-UP GAME IS DISABLED.
DIRECT DOUBLE UP   PRESS "BET" BUTTON TO ENTER DOUBLE-UP GAME DIRECTLY WITH THE MAX BET.
DOUBLE UP LIMIT   AN UPPER BOUND TO DISABLE THE ENTRY OF THE DOUBLE UP GAME WHEN THE WINS EXCEED.

WHEN THE MAX BET IS 450,THE NUMERICAL : UNLIMIT、100000、50000
WHEN THE MAX BET IS 360,THE NUMERICAL : UNLIMIT、80000、40000
WHEN THE MAX BET IS 270,THE NUMERICAL : UNLIMIT、60000、30000
WHEN THE MAX BET IS 180,THE NUMERICAL : UNLIMIT、40000、20000
WHEN THE MAX BET IS 90,THE NUMERICAL : UNLIMIT、20000、10000
WHEN THE MAX BET IS 45,THE NUMERICAL : UNLIMIT、10000、5000

DEMO MUSIC
COIN
NOTE IN   THE SAME WITH IN/OUT SET UP
TIME SET UP
VOLUME ADJUSTMENT

【STOP1】: MOVE UP 【STOP2】: MOVE DOWN 【STOP3】: + 【STOP4】: - 【START】: EXIT

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| STOP1 :1 | STOP2 :2 | STOP3 :3 | STOP4 :4 | START : CANCEL |

【STOP1】: MOVE UP 【STOP2】: MOVE DOWN 【STOP3】: OFF 【STOP4】: ON 【STOP5】: ENTER 【START】: EXIT

*5.RELOAD DEFAULT

IF YOU WANT TO RELOAD DEFAULT ,PLEASE PRESS BOTH STOP5 AND HELP TOGETHER,
AND HOLD FOR 5 SECONDS.
● ATTENTION！AFTER RELOAD DEFAULT,THE MACHINE WILL RETURN TO THE ORIGINAL SET UP！

6.EVENT RECORD

TOTAL EVENT RECORD ▸ LAST 256 TIMES RECORD

IN/OUT METER EVENT RECORD ▸ KEYIN , KEYOUT AND PAYOUT RECORD

GRAND PRIZES RECORD ▸ ALL PRIZES RECORD

【STOP1】: LAST PAGE 【STOP2】: NEXT PAGE 【START】: EXIT

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Button test

PRESS TO CHECK IF EACH BUTTON IS ON AND MARK ☑	COIN	STOP1 /SCISSORS/LINE
	STOP2/DOUBLE-UP	STOP3/ROCK/HELP
	STOP4/ PAPER	STOP5/BET
	NOTE	START/TAKE WIN/ALL STOP
	CLEAR	RECORD
	SET UP	PAY OUT
	TICKET OUT	TICKET NOTCH
	HOPPER SW	

【START+HELP】: EXIT

MUSIC TEST ADJUSTMENT SOUND TRACK 1 SOUND TRACK 2 SOUND TRACK 3 SOUND TRACK 4

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FOR 30 MINUTES TO ENTER ANOTHER PASSWORD.

SYSTEM SET UP>>RECORD

Press the [RECORD] button when the power is ON to enter RECORD screen:

RECORD 1

GAME RECORD

TOTAL RECORD

POWER ON	CURRENT
COIN IN	
PAYOUT	
NOTE IN	
CLEAR	

MAIN GAME

TOTAL BET	CURRENT
TOTAL WIN	
GAME TIMES	
WIN TIMES	
BONUS	

STOP1 (LAST PAGE) STOP2 (NEXT PAGE) START (EXIT)
HELP (CLEAR THE LAST RECORD)

RECORD 2

GAME RECORD

DOUBLE-UP

PLAY	CURRENT
WIN	
GAME TIMES	
WIN TIMES	

BONUS GAME I

| ENTER TIMES | CURRENT |
| WIN | |

BONUS GAME II

| ENTER TIMES | CURRENT |
| WIN | |

STOP1 (LAST PAGE) STOP2 (NEXT PAGE) START (EXIT)
HELP (CLEAR THE LAST RECORD)

SYSTEM SET UP

RECORD 3

GAME RECORD

STOP1 (LAST PAGE) STOP2 (NEXT PAGE) START (EXIT)

RECORD 4

GAME RECORD
MAIN GAME

STOP1 (LAST PAGE) STOP2 (NEXT PAGE) START (EXIT)

WIRING DIAGRAM AND CONTROL PANEL

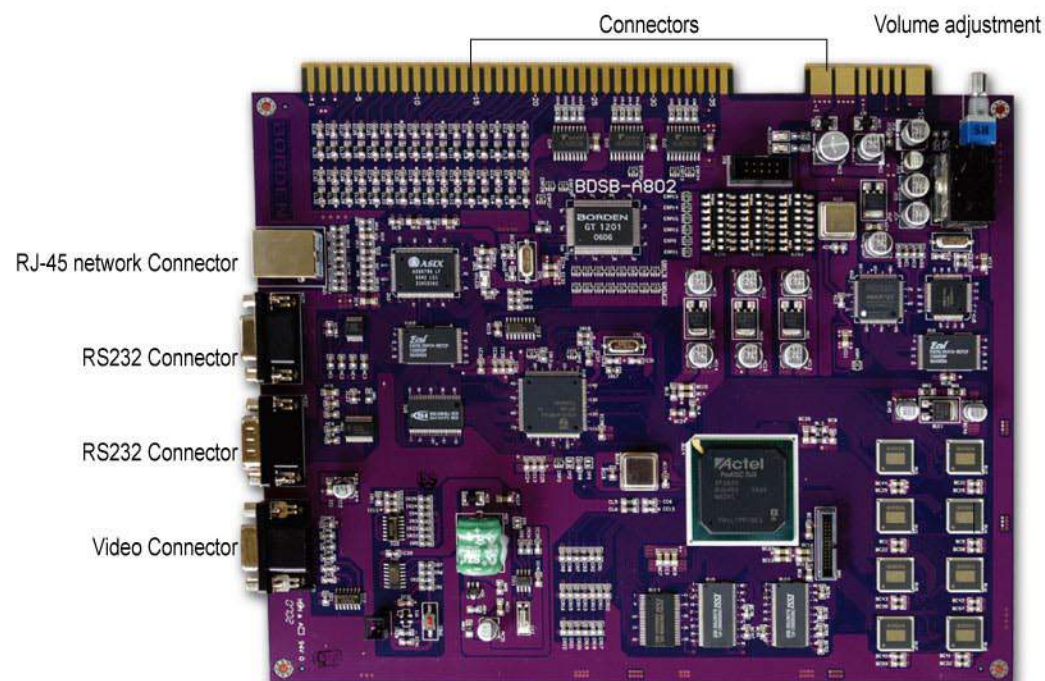| COMPONENT SIDE	36PIN	SOLDER SIDE
	1	
	2	
AUDIO OUT	3	AUDIO GND
	4	
	5	
	6	
TICKET OUT SW	7	
TICKET NOTCH SW	8	
START/STOP/TAKE SW	9	
HELP / STOP 3 /ROCK	10	
STOP5 / BET SW	11	
STOP 4 / PAPER	12	
DOUBLE UP / STOP 2	13	
	14	
	15	
LINE / STOP 1 / SCISSORS	16	
	17	
COIN IN	18	NOTE IN
	19	
ACCOUNT SW	20	SETUP/TEST BUTTON
PAYOUT BUTTON	21	CLEAR SW
	22	HOPPER SW
COIN IN METER	23	
NOTE IN METER	24	HOPPER MOTOR
	25	
	26	
PAYOUT METER	27	
CLEAR/TICKET METER	28	
START/STOP/TAKE LAMP	29	
HELP / STOP 3/ROCK	30	
STOP5 / BET LAMP	31	
STOP 4 / PAPER	32	
DOUBLE UP / STOP 2	33	
LINE / STOP 1 / SCISSORS	34	
	35	
GND	36	GND

COMPONENT SIDE	10PIN	SOLDER SIDE
GND	1	GND
GND	2	GND
5V	3	5V
5V	4	5V
12V	5	12V
NC	6	NC
NC	7	NC
TICKET DISPENSER OUT	8	NC
GND	9	GND
GND	10	GND

CONTROL PANEL

Connectors

Volume adjustment

RJ-45 network Connector

RS232 Connector

RS232 Connector

Video Connector

BDSB-A802

★[AUTO MODE] will start by pressing the [AUTO] button to keep the game playing automatically, until [AUTO] is repressed.