# TABLE OF CONTENTS

Version: 4.3-003 Time: 2008-3-5

| SAFTTY INSTRUCTIONS             |
|---------------------------------|
| INTRODUCTION                    |
| PACKAGING2                      |
| ACCERSSORIES                    |
| TECHNICAL PARAMETERS            |
| LOCATION REQUIREMENTS           |
| PLAYING INSTRUCTIONS            |
| ADJUSTING THE CLAW STRENGTH     |
| METERS                          |
| #1 COIN MECH METER 6            |
| #2 COIN MECH METER 6            |
| PRIZE METER                     |
| CPU Diagram7                    |
| Drive Board for the Crane       |
| OPERATION9                      |
| TURN ON THE POWER               |
| GAME PLAY MODE9                 |
| ATTRACT MODE9                   |
| TEST MODE                       |
| ERROR MODE 10                   |
| PRIZE OUT MODE 10               |
| DIP SWITCH SETTING DESCRIPTIONS |
| DIP Switch Setting              |
| CPU Wiring Pin Out              |
| ERROR CODES                     |

## SAFTTY INSTRUCTIONS

## \* WARNING! \*

## BEFORE SETTING UP THE GAME, PLEASE READ THE FOLLOWING INSTRUCTIONS.

## \* WARNING! \*

## FAILURE TO FOLLOW THESE DIRECTIONS COULD CAUSE DAMAGE TO THE GAME.

### NOTICE FOR INSTALLATION

- I This machine is for indoor use, is not suitable for outdoor use.
- After the machine was completely set up, please make sure that the machine is securely and safely placed on the floor.
- I Do not assemble or disassemble the game. or move the game without careful instructions.
- I Switch off the power and pull out the plug before moving the machine.
- I Place the game on flat floor. Do not put it on unsteady or vibrating location.
- I Do not place the game near equipment or areas that are humid, inflammable or of high temperature.
- I Do not place any heavy equipment on the top of the machine, or on top of the power cord.
- I Do not expose the circuit part in the machine to the air for a long time.

## NOTICE FOR OPERATION

- I Before plugging in or turning on the machine, please check if the power plug and power cord are in good conditions, and check if the voltage is set to the proper voltage that is suitable for your country.
- I Turn off the power before you check or inspect the machine.
- I Only qualified technicians are allowed to perform checking or maintenance of the game.
- I Suitable accessories and technical parts should be used for parts replacement
- I Hold the plug (not the wire) to remove the power cord from the wall outlet.
- I Do not plug or unplug the game with wet hand.
- I Do not pull or twist the power wire and fuses.

## INTRODUCTION

Toy Story is a new version of indoor prize machine. This machine is simple to play, with brilliant cabinet design built of high quality materials. Toy Story is a game that Every Family Entertainment Center should not miss!

## PACKAGING

During delivery, the machine should be handled with care. Use a Forklift to deliver the packaged machine. Be careful not to hit the machine by heavy equipment. This may cause damage to the machine.

## ACCERSSORIES

Check whether the machine is packed with the following Accessories:

| Accessories                           | Quantity | Remarks  |
|---------------------------------------|----------|--|
| Operation Manual                      | 1        |  |
| Keys                                  | 5        | 3*3172 ( Front and Back Door Keys)<br>2*3157 (Glass Door Keys) |
| Power Cord                            | 1        |  |
| String for the Claw Carriage          | 2*1.0m   |  |
| Door Lock                             | 3 sets   | 8840   |
| Micro On/Off Switch<br>for the Wheels | 1 pcs    | DECO VP531A-5F   |

### **TECHNICAL PARAMETERS**

- I Mode: LP.XDZ003
- I Dimension: 770\*880\*1840 mm
- I Weight: 124 KG
- I Power supply: see the back cover of the machine.
- I Maximum power: 200W/220V, 160W/110V
- I Location requirements

## LOCATION REQUIREMENTS

- I Indoor temperature: between from  $5^{\circ}$  and  $40^{\circ}$ .
- I Indoor humidity: low
- I U.V. radiation: Very low
- I Vibrations level: low

## PLAYING INSTRUCTIONS

1. Insert coin. After the proper number of credits is achieved, the game will enter into play mode (eg. Default setting is 1 coin/token for every game. So, if 1 coin/token is inserted, then the game will start. If the setting is 2 coins/tokens for each game, then the player needs to insert 2 coins / tokens to start the game.) . The "CREDIT" LED display on the console will show the number of CREDITS and the TIME LED display will show the playtime.

2. Normal mode: Within the play time limit, move the joystick to control the position of the claw. Move the claw to your target. Press the red button on the top of the joystick to lower down the claw and try to catch the prize. If the claw catches the prize, the prize will come out through the prize door. Game over when the crane returns the original position.

Note: The setting of max no. of play times in vending mode set by SW3 #1 and #2 does not work in normal mode.

3. Vending mode \*\*\*: within the play time limit, move the joystick to control the position of the claw. Move the claw to your target. Press the red button on the top of the joystick to lower down the claw and try to catch the prize. Game will end only when the player wins a toy/prize successfully. Otherwise, when the number of games played is equal to the max number of game play (set by SW3 #1 and #2).

Note: The setting of payout ratio of the game (set by SW3 #3, #4 and #5) does not work in vending mode\*\*\*. And the voltage of claw always be at the Strong state so that the player can finally win a prize in vending mode\*\*\*, so please attention to the claw and prize sensing panel.

## ADJUSTING THE CLAW STRENGTH

In normal mode the Payout Ratio of the game depends on the Claw Strength, which is controlled by the voltage of the Claw.

How to Adjust the Claw Strength :

Enter the "CRANE TEST" mode: Press the "CRANE TEST" button for about 0.5s to enter into the "CRANE TEST" mode. When the LED displays "HX", the claw carriage enters into the "CRANE TEST" mode. Please refer to Table 1 for the value of "X".

For example, when the LED display is "H1", the Claw Strength is strong (at this stage, power output to the claw carriage is 3 seconds per 10 seconds). You can adjust the voltage via Drive Board R 23. Please refer to Table 1 below for details. Table 2 and 3 shows the relationship between Voltage Setting and Time.

Setting Payout Ratio :

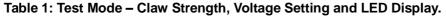
In normal mode Payout Ratio of prizes is controlled by Main PCB - SW2 #3, #4 and #5.

At initial clear stage, when the no. of game played already is less than the payout ratio, and then prize will not be allowed to be given out. The Voltage setting will be same as Table 2.

However, if the voltage setting is not correctly adjusted, prize may also be given out. In this case, please adjust the voltage according to Table 1.

When the no. of game played is more than the payout ratio, then prize is allowed to be given out. The Voltage setting will be same as Table 3. The opportunity of giving out prizes will be higher.

| Claw Strength     | Test Code # | Potentiometer   | Voltage Setting<br>(VDC) | LED Display |
|-------------------|-------------|-----------------|--------------------------|-------------|
| Strong            | 12          | Drive Board R23 | 40±3                     | H1          |
| Medium            | 13          | Drive Board R24 | 30±3                     | H2          |
| Weak              | 14          | Drive Board R25 | 10±3                     | H3          |
| Crane moving test |             |                 |                          |             |



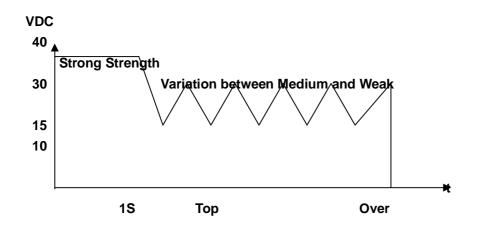


Table 2: No Prize will be given out

4

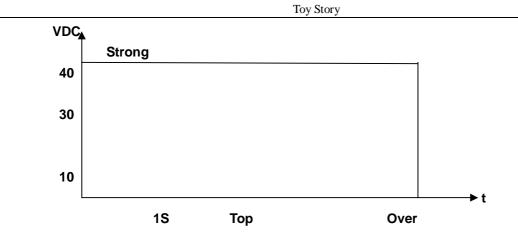


Table 3 : Prize is allowed to be given out

### ATTENTION:

Voltage cannot be adjusted to be too high. If the voltage is adjusted to be too high, this may cause damage to the PCB and the claw carriage

If you do not adjust the Claw Strength according to the above instructions, you cannot control the strength of the claw.

If the prize is not too heavy, it is highly recommended to always keep the voltage to be at a relatively lower level, so that the claw and the claw carriage can last longer.

## **METERS**

#### **#1 COIN MECH METER**

The no. shown on the #1 Coin Mech will increase by one for every coin inserted in this electronic coin mechanism. This #1 coin Mech has the function of "Continuous Play". When the number of coins inserted reaches a certain level (Please see the details in the "SETTING" section), then the player is awarded a FREE game play. The "CREDIT" LED display will show"+1" and there will also be a BONUS sound.

ATTENTION: The Time Interval between inserting the second coin after the first coin should be <u>within 10</u> <u>seconds.</u> If the second coin inserted is more than 10 seconds after the first coin is inserted, then it will not be regarded as continuous play.

#### **#2 COIN MECH METER**

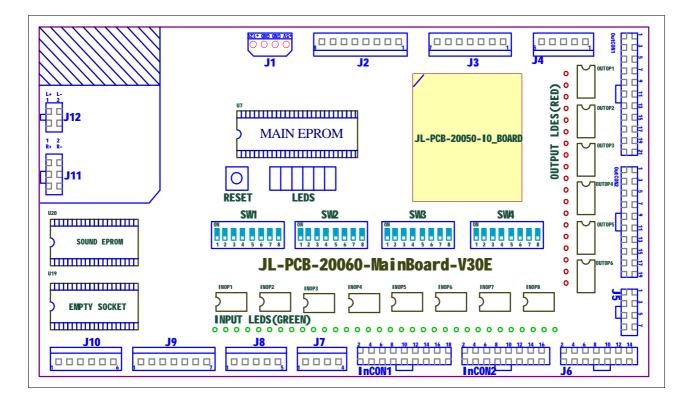
The no. shown on the #2 Coin Mech will increase by one for every coin inserted in this #2 coin mechanism. This #2 Coin Mech also has the function of "Continuous Play". When the number of coins inserted reaches a certain level (Please see the details in the "SETTING" section), then the player is awarded a FREE game play. The "CREDIT" LED display will show"+1" and there will also be a BONUS sound.

ATTENTION: The Time Interval between inserting the second coin after the first coin should be <u>within 10</u> <u>seconds.</u> If the second coin inserted is more than 10 seconds after the first coin is inserted, then it will not be regarded as continuous play.

#### PRIZE METER

The no. shown on the Prize Meter will increase by one when a prize is given out.

## **CPU Diagram**



### **CONNECTORS**

See the CPU WIRING PINOUT pages for more information.

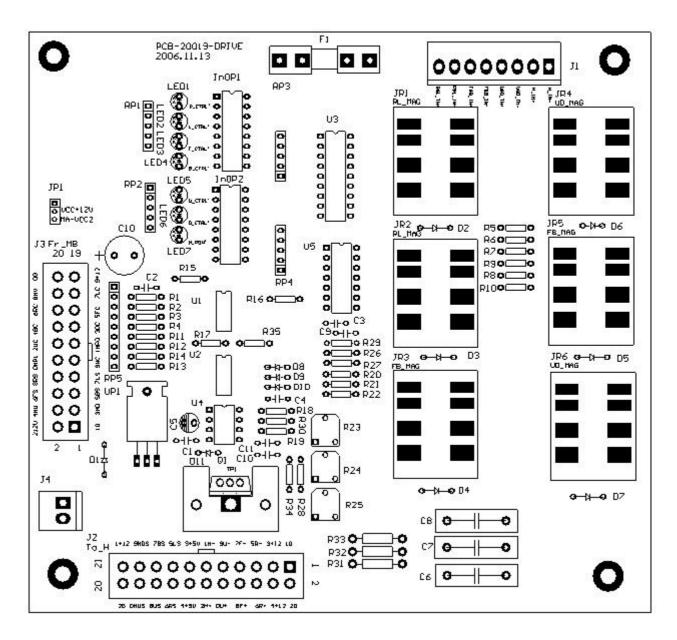
### **RESET BUTTON**

Press the RESET Button to resent the game.

### **DIP SWITCHES**

There are 4 nos. of DIP switches on this board. They are labeled as SW1, SW2, SW3 and SW4. To turn on the Switch, move the switch UP. To turn off the Switch, move the switch DOWN.

Attention: Press the RESET button after any change to the DIP Switch settings. Please refer to the DIP SWITCH SETTINGS TABLE for function of each switch.



## **Drive Board for the Crane**

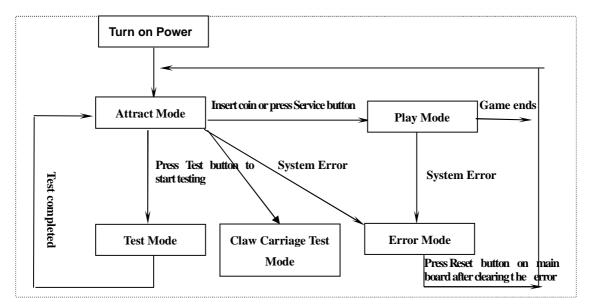
J1 : Power Input

8

- J2: Crane connector.
- J3: Main PC board connector.
- J4: Claw voltmeter output.

## **OPERATION**

This game has two adjustable play modes. One is the free play mode, and the other one is coin play mode. When the machine is in free play mode, after pressing the reset button, no coin is required to start the game. The machine will be in play mode continuously. When the machine is in coin play mode, it can be in one of the following six modes: 1) Attract Mode, 2) Test Mode , 3) Claw Carriage Test Mode, 4) Game Play Mode, 5) Error state, 6) Prize-Out Mode. Please refer to the Flow Chart below for details:



#### **TURN ON THE POWER**

Before turning on the power, please check the plug and cord, and make sure that the game is set to the proper voltage.

#### **GAME PLAY MODE**

When the Game is started, the TIME and CREDIT LED on the console display the time and credit the player has. There is also MUSIC going with this.

#### ATTRACT MODE

In ATTRACT MODE, the LEDs on the console display  $\boxed{\times \times}$ , which also changes continuously. It is also going with music. Press the "TEST" button on the front cabinet for over 0.5 seconds and the game will enter into TEST MODE. Insert Coin, and the machine will enter into GAME PLAY MODE.

#### TEST MODE

Test whether the LED is good, whether the lights, claw carriage and music are normal. When machine is in ATTRACT MODE, press the "TEST" button, music will stop and the game will enter into "TEST MODE". LED displays NO. of version  $\rightarrow$  LED all turn off  $\rightarrow$ LED all turn on  $\rightarrow$  Testing Input  $\rightarrow$ Testing Output

 $\rightarrow$ Testing Ticket Dispenser (Not applicable to this Machine)  $\rightarrow$  Testing Music  $\rightarrow$  Test is completed.

## ERROR MODE

During the game play, whenever there is ERROR, the system will enter into ERROR MODE. The Error code "EX" will be displayed. Alarm is activated, and you can check the errors according to the EROR CODES 1, 2, 3, 4 and 6. After clearing the error, reset the game and restart the machine. Please refer to the "ERROR CODES" table for details.

## PRIZE OUT MODE

If a prize is given out, music "PRIZE-OUT" will be activiated. The NO. displayed on the Prize meter will also increase by one.

## **DIP SWITCH SETTING DESCRIPTIONS**

## **SWITCH 1**

## VENDING MODE

If SW1#1, #2 is set as ON, OFF, the game is in vending mode\*\*\*. If SW1#1, #2 is set as OFF, OFF, the game is in normal mode.

### FREE PLAY

If SW1 #3 is ON, free play is disabled. Coins are needed in order to start the game. If SW1 #3 is OFF, free play is allowed and no coins are required.

## # of COINS PER PLAY

DIP SW1 #4, #5 and #6 set the number of coins required to play one game.

## **POWER OFF SETTINGS**

If SW1 #7 is ON, any parameters on the game will be saved when the power is OFF. If SW1 #7 is OFF, any parameters on the game will be cleared when the power is OFF.

### **MUSIC IN ATTRACT MODE**

If SW1 #8 is ON, music is on when the game is not in use. If SW1 #8 is OFF, music is off when the game is not in use.

## **SWITCH 2**

**PLAYTIME** DIP SW2 #1 and #2 set the time limit for each game.

### PRIZE PAYOUT RATIO

DIP SW2 #3, #4 and #5 is used to configure the Prize Payout Ratio.

## AWARD WHEN INSERT COINS CONTINUOUSLY

DIP SW2 #6, #7 and #8 set how the players can get One Bonus coin when coins are inserted continuously.

### **SWITCH 3**

## PLAY TIMES IN VENDING MODE\*\*\* DIP SW3 #1 and #2 set the play times in Vending mode\*\*\*.

## **SWITCH 4**

### **MOVING DISTANCE AFTER COINS INSERTED**

If the game is large size, such as 42' cabinet, DIP SW4 #1 should be turned to ON, and the crane will move a long distance after coins inserted.

If the game is small size, such as 31' cabinet, DIP SW4 #1 should be turned to OFF, and the crane will move a short distance after coins inserted.

## THE OPENING POSITION FOR PRIZE FALLING IN

If the position for opening is on the frontal of the left (near the back of the game), DIP SW4 #2 should be turned to ON.

If the position for opening is on the back of the left (near the console of the game), DIP SW4 #2 should be turned to OFF.

### **#2 COIN METER**

If #2 coin meter has been installed on the counter board, DIP SW4 #4 should be turned to ON. If #2 coin meter hasn't been installed on the counter board, DIP SW4 #4 should be turned to OFF.

#### LEDs ON THE CONSOLE

If there is only one LED installed on the console, DIP SW4 #5 should be turned to ON. If there are two LEDs (TIME & COIN) installed on the console, DIP SW4 #4 should be turned to OFF.

# **DIP Switch Setting**

## Version: 4.3-003 Time: 2008-3-5

| Function Bit | 1    | 2   | 3    | 4   | 5   | 6   | 7   | 8   | Function  |
|--------------|------|-----|------|-----|-----|-----|-----|-----|---|
| DIP          | ON   |     |      |     |     |     |     |     | Vending Mode***                                       |
|              | OFF  |     |      |     |     |     |     |     | Normal Mode   |
|              | •••• |     | ON   |     |     |     |     |     | Need to insert coins to start the Game                |
|              |      |     | OFF  |     |     |     |     |     | Free Play(No need to insert coins)                    |
|              |      |     | •••• | ON  | ON  | ON  |     |     | 15 Coins / Game                                       |
|              |      |     |      | OFF | ON  | ON  |     |     | 10 Coins / Game                                       |
|              |      |     |      | ON  | OFF | ON  |     |     | 8 Coins / Game  |
|              |      |     |      | OFF | OFF | ON  |     |     | 5 Coins / Game  |
| SW1          |      |     |      | ON  | ON  | OFF |     |     | 4 Coins / Game  |
|              |      |     |      | OFF | ON  | OFF |     |     | 3 Coins / Game  |
|              |      |     |      | ON  | OFF | OFF |     |     | 2 Coins / Game  |
|              |      |     |      | OFF | OFF | OFF |     |     | 1 Coin / Game   |
|              |      |     |      |     |     |     | ON  |     | Save parameter when Power is OFF                      |
|              |      |     |      |     |     |     | OFF |     | Clear parameter when Power is OFF                     |
|              |      |     |      |     |     |     | 011 | ON  | Music On when the game is in Attract Mode             |
|              |      |     |      |     |     |     |     | OFF | Music Off when the game is in Attract Mode            |
|              | ON   | ON  |      |     |     |     |     | UFF | Time per game play: 50 seconds                        |
|              | OFF  | ON  |      |     |     |     |     |     | Time per game play: 50 seconds                        |
|              | OFF  | OFF |      |     |     |     |     |     |   |
|              | OFF  | OFF |      |     |     |     |     |     | Time per game play: 30 seconds                        |
|              | UFF  | UFF | ON   | ON  | ON  |     |     |     | Time per game play: 20 seconds                        |
|              |      |     | OFF  | ON  | ON  |     |     |     | Win 1 prize out of 50 games                           |
|              |      |     | OFF  | OFF |     |     |     |     | Win 1 prize out of 30 games                           |
|              |      |     | -    |     | ON  |     |     |     | Win 1 prize out of 20 games                           |
|              |      |     | OFF  | OFF | ON  |     |     |     | Win 1 prize out of 15 games                           |
|              |      |     | ON   | ON  | OFF |     |     |     | Win 1 prize out of 10 games                           |
|              |      |     | OFF  | ON  | OFF |     |     |     | Win 1 prize out of 8 games                            |
|              |      |     | ON   | OFF | OFF |     |     |     | Win 1 prize out of 5 games                            |
| SW2          |      |     | OFF  | OFF | OFF |     |     |     | Win 1 prize out of 3 games                            |
|              |      |     |      |     |     | ON  | ON  | ON  | Get a Bonus Coin when insert 10 coins<br>continuously |
|              |      |     |      |     |     | OFF | ON  | ON  | Get a Bonus Coin when insert 8 coins<br>continuously  |
|              |      |     |      |     |     | ON  | OFF | ON  | Get a Bonus Coin when insert 7 coins<br>continuously  |
|              |      |     |      |     |     | OFF | OFF | ON  | Get a Bonus Coin when insert 5 coins<br>continuously  |
|              |      |     |      |     |     | ON  | ON  | OFF | Get a Bonus Coin when insert 4 coins<br>continuously  |
|              |      |     |      |     |     | OFF | ON  | OFF | Get a Bonus Coin when insert 3 coins<br>continuously  |
|              |      |     |      |     |     | ON  | OFF | OFF | Get a Bonus Coin when insert 2 coins<br>continuously  |
|              |      |     |      |     |     | OFF | OFF | OFF | No Bonus Coin   |

| SW3                               | ON  | ON  |     |     |  | When the game is in Vending Mode – Max no. of<br>Game Play is 10 times                   |
|-----------------------------------|-----|-----|-----|-----|--|--|
| applicable                        | OFF | ON  |     |     |  | When the game is in Vending Mode – Max no. of<br>Game Play is 5 times                    |
| when the<br>game is in<br>Vending | ON  | OFF |     |     |  | When the game is in Vending Mode – Max no. of<br>Game Play is 3 times                    |
| Mode)                             | OFF | OFF |     |     |  | When the game is in Vending Mode – Max no. of<br>Game Play is 1 time                     |
|                                   | ON  |     |     |     |  | Crane moves a long distance after coins<br>inserted(applicable to cabinet of large size) |
|                                   | OFF |     |     |     |  | Crane moves a short distance after coins inserted(applicable to cabinet of small size)   |
|                                   |     | ON  |     |     |  | The opening prize falling in is on the front of left cabinet                             |
| SW4                               |     | OFF |     |     |  | The opening prize falling in is on the back of left cabinet                              |
|                                   |     |     | ON  |     |  | #2 coin meter unused   |
|                                   |     |     | OFF |     |  | #2 coin meter used   |
|                                   |     |     |     | ON  |  | Single LED has been used on console  |
|                                   |     |     |     | OFF |  | Two LEDs have been used on console   |

**Remarks:** 

1. Cells Highlighted in Grey Color – Factory Settings.

2. The settings of SW4 should be set according to the truth of the game, please don't change them freely.

3. #2 coin mech and #2 coin meter are unnecessary to use, but they have been wired for the sake of oneness. And #1 coin mech and #1 coin meter are the main priority.

# **CPU Wiring Pin Out**

Version: 4.3 Time: 2008-3-5

| PLUG         | PIN    | PIN COLOR     | FUNCTIONS           | I/O CODE | FUNCTION OF I/O                              |
|--------------|--------|---------------|---------------------|----------|--|
| CODE         | CODE   |               |                     |          |  |
| J1           | PIN 1  | 4*0.75-Red    | +5V Input           |          | -  |
| (Power Input | PIN 2  | 4*0.75-Black  | GND                 |          | Power Input                                  |
| Connector    | PIN 3  | 4*0.75-Black  | GND                 |          |  |
| Connector    | PIN 4  | 4*0.75-Yellow | +12V Input          |          |  |
|              | PIN 1  | 6*0.3—Green   | CLK                 |          |  |
| J4           | PIN 2  | 6*0.3—White   | DAT                 |          | -  |
| (#2 Serial   | PIN 3  | 6*0.3—Brown   | LTH                 |          | Digital LED Board Output<br>Connection order |
| Output       | PIN 4  | 6*0.3—Yellow  | +12V Output         |          | 1. Coin Qty LED (2 bits).2. Time LED(2 bits) |
| Connector)   | PIN 5  | 6*0.3—Black   | GND                 |          |  |
|              | PIN 6  | 6*0.3-Red     | +5V Output          |          |  |
|              | PIN 1  | 4*0.3-White   | #1 Ticket Out Drive |          |  |
|              | PIN 2  | 4*0.3-White   | #2 Ticket Out Drive |          | -  |
| J5           | PIN 3  | 4*0.3—Yellow  | +12V Output         |          | -  |
| (Ticket Out  | PIN 4  | 4*0.3—Yellow  | +12V Output         |          | Ticket Out Connector(unused in this          |
| Connector)   | PIN 5  | 4*0.3—Black   | GND                 |          | machine)                                     |
| ,            | PIN 6  | 4*0.3—Black   | GND                 |          | - ´´   |
|              | PIN 7  | 4*0.3—Green   | #1 Ticket Feedback  |          |  |
|              | PIN 8  | 4*0.3—Green   | #2 Ticket Feedback  |          |  |
|              | PIN 1  | 10*0.3-Yellow | +12V Out            |          |  |
|              | PIN 2  | NOT USED      | +12 V Out           |          | -  |
|              |        |               |                     |          |  |
|              | PIN 3  | 10*0.3-Black  | GND                 |          | -  |
|              | PIN 4  | NOT USED      | GND                 |          | -  |
|              | PIN 5  | 10*0.3-Blue   | Service             | IN #25   | -  |
| J6           | PIN 6  | NOT USED      | No Connect          |          | -  |
| (Base        | PIN 7  | NOT USED      | No Connect          |          | Base Function connector                      |
| Function     | PIN 8  | NOT USED      | No Connect          |          |  |
| connector)   | PIN 9  | 10*0.3-Purple | Test                | IN #27   |  |
|              | PIN 10 | 10*0.3-Orange | Clear Data          | IN #28   | -  |
|              | PIN 11 | 10*0.3-White  | #1 coin mech singal | IN #30   | -  |
|              | PIN 12 | 10*0.3—Green  | Crane test signal   | IN #31   | -  |
|              | PIN 13 | 10*0.3-Gray   | Prize Meter         | OUT #22  |  |
|              | PIN 14 | 10*0.3—Brown  | #1 coin meter       | OUT #23  |  |

|              | 1             |                |                     |        |   |
|--------------|---------------|----------------|---------------------|--------|---|
|              | PIN 1         | 4*0.3-Red      | +5V Output          |        |   |
| J8           | PIN 2         | 4*0.3-Yellow   | +12V Output         |        |   |
| (Singal      | PIN 3         | 4*0.3-Green,   | T+/R+ (RS485);      |        | Unused                                    |
| Connector)   | PIN 4         | 4*0.3—Brown,   | GND                 |        |   |
|              | PIN 5         | 4*0.3-Blue     | T-/R- (RS485);      |        |   |
|              | PIN 1         | 4*0.15-Green   | Right Signal Input  |        |   |
|              | PIN 2         | 4*0.15-White   | Left Signal Input   |        |   |
| J11          | PIN 3         | 4*0.15-Red     | Right Signal Output |        | Values Chul                               |
| (Volume      | PIN 4         | 4*0.15—Yellow  | Left Signal Output  |        | - Volume Ctrl                             |
| Control)     | PIN 5         | Screening wire | GND                 |        |   |
|              | PIN 6         | Screening wire | GND                 |        |   |
|              | PIN 1         | 2*0.75-White   | Left Speaker +      |        |   |
| J12          | PIN 2         | 2*0.75-Black   | Left Speaker -      |        | Smeehen                                   |
| (Amplifier – | PIN 3         | 2*0.75-Red     | Right Speaker +     |        | – Speaker                                 |
| Connector)   | PIN 4         | 2*0.75-Black   | Right Speaker -     |        |   |
|              | PIN 1         | 0.3—Brown      | Input               | IN #0  | Joystick – Moving Forward ON/OFF switch   |
|              | PIN 2         | 0.3—Pink       | Input               | IN #1  | Joystick – Moving Backwards ON/OFF switch |
|              | PIN 3         | 0.3-Orange     | Input               | IN #2  | Joystick – Moving Left ON/OFF switch      |
|              | PIN 4         | 0.3-SkyBlue    | Input               | IN #3  | Joystick - Moving Right ON/OFF switch     |
|              | PIN 5         | 0.3-Green      | Input               | IN #4  | Claw – Moving Forward ON/OFF switch       |
|              | PIN 6         | 0.3—Blue       | Input               | IN #5  | Claw – Moving Backwards ON/OFF switch     |
|              | PIN 7         | 0.3—Purple     | Input               | IN #6  | Claw – Moving Left ON/OFF switch          |
| InCON1       | PIN 8         | 0.3—Gray       | Input               | IN #7  | Claw - Moving Right ON/OFF switch         |
| (#1~#15      | PIN 9         | 0.3–White      | Input               | IN #8  | Claw – Moving Up On/Off Switch input      |
| Input .      | PIN 10        | 0.3—SkyBlue    | Input               | IN #9  | Claw – Moving Down On/Off Switch input    |
| #1~#15)      | <b>PIN 11</b> | 0.3-Brown      | Input               | IN #10 |   |
|              | PIN 12        | 0.3-White      | Input               | IN #11 | Prize test input                          |
|              | PIN 13        | 0.3-Orange     | Input               | IN #12 |   |
|              | PIN 14        | 0.3-Green      | Input               | IN #13 | Joystick button input                     |
|              | PIN 15        | 0.3-White      | Input               | IN #14 | #2 coin mech signal                       |
|              | PIN 16        | 0.3-Black      | GND                 |        |   |
|              | PIN 17        | 0.3-Red        | +5V Output          |        |   |
|              | PIN 18        | 0.3-Yellow     | +12V Output         |        |   |
|              |               |                |                     |        |   |

|         |        |             | <b>.</b> .  |        |   |
|---------|--------|-------------|-------------|--------|---|
| -       | PIN 1  | 0.3—Brown   | Input       | IN #15 |   |
| -       | PIN 2  | 0.3—Pink    | Input       | IN #16 |   |
| -       | PIN 3  | 0.3-Orange  | Input       | IN #17 |   |
|         | PIN 4  | 0.3-SkyBlue | Input       | IN #18 |   |
| -       | PIN 5  | 0.3-Green   | Input       | IN #19 |   |
|         | PIN 6  | 0.3—Blue    | Input       | IN #20 |   |
|         | PIN 7  | 0.3—Purple  | Input       | IN #21 |   |
|         | PIN 8  | 0.3—Gray    | Input       | IN #22 |   |
|         | PIN 9  | 0.3—White   | Input       | IN #23 |   |
| Input)  | PIN 10 | 0.3—SkyBlue | Input       | IN #24 |   |
|         | PIN 11 | 0.3—Brown   | Input       | IN #25 |   |
|         | PIN 12 | 0.3—Pink    | Input       | IN #26 |   |
|         | PIN 13 | NC          |             |        |   |
|         | PIN 14 | 0.3—Black   | GND         |        |   |
|         | PIN 15 | 0.3-Red     | +5V Output  |        |   |
|         | PIN 16 | 0.3-Yellow  | +12V Output |        |   |
| OutCON1 | PIN 1  | 0.3—Brown   | Output      | OUT #0 |   |
| (#1~#11 | PIN 2  | 0.75—Yellow | +12V Output |        |   |
| Output) | PIN 3  | 0.3—Pink    | Output      | OUT #1 |   |
|         | PIN 4  | 0.75—Yellow | +12V Output |        |   |
|         | PIN 5  | 0.3-Orange  | Output      | OUT #2 |   |
|         | PIN 6  |             |             |        |   |
|         | PIN 7  | 0.3—SkyBlue | Output      | OUT #3 |   |
|         | PIN 8  |             |             |        |   |
|         | PIN 9  | 0.3-Green   | Output      | OUT #4 |   |
|         | PIN 10 |             |             |        |   |
|         | PIN 11 | 0.3—Blue    | Output      | OUT #5 | Coin indicator                            |
|         | PIN 12 |             |             |        |   |
|         | PIN 13 | 0.3—Purple  | Output      | OUT #6 | Claw – Moving to the front control output |
|         | PIN 14 |             |             |        |   |
|         | PIN 15 | 0.3—Gray    | Output      | OUT #7 | Claw – Moving to the back control output  |
|         | PIN 16 | 0.3-Yellow  |             |        |   |
|         | PIN 17 | 0.3-White   | Output      | OUT #8 | Claw – Moving to left control output      |
|         | PIN 18 | 0.5—Yellow  |             |        |   |
|         | PIN 19 | 0.3—SkyBlue | Output      | OUT #9 | Claw – Moving to right control output     |
|         |        |             |             |        |   |
|         | PIN 20 |             |             |        |   |

|          |               |             | 109 2001 9            |                      |                                   |
|----------|---------------|-------------|-----------------------|----------------------|-----------------------------------|
|          | PIN 22        |             |                       |                      |                                   |
|          | PIN 1         | 0.3-Brown   | Output                | OUT #11              | Claw – Moving Down control output |
|          | PIN 2         | 0.5-Yellow  |                       |                      |                                   |
|          | PIN 3         | 0.3-Pink    | Output                | OUT #12              | Claw Strength Control Output 0    |
|          | PIN 4         |             |                       |                      |                                   |
|          | PIN 5         | 0.3-Orange  | Output                | OUT #13              | Claw Strength Control Output 1    |
|          | PIN 6         |             |                       |                      |                                   |
|          | PIN 7         | 0.3-SkyBlue | Output                | OUT #14              |                                   |
|          | PIN 8         |             |                       |                      |                                   |
|          | PIN 9         | 0.3-SkyBlue | Output                | OUT #15              |                                   |
| OutCON2  | PIN 10        |             |                       |                      |                                   |
| (#12~#21 | PIN 11        | 0.3—Blue    | Output                | OUT #16              |                                   |
| Output)  | <b>PIN 12</b> |             |                       |                      |                                   |
|          | PIN 13        | 0.3-Purple  | Output                | OUT #17              |                                   |
|          | PIN 14        |             |                       |                      |                                   |
|          | PIN 15        | 0.3—Gray    | Output                | OUT #18              |                                   |
|          | PIN 16        |             |                       |                      |                                   |
|          | PIN 17        | 0.3-White   | Output                | OUT #19              |                                   |
|          | <b>PIN 18</b> |             |                       |                      |                                   |
|          | PIN 19        | 0.3-SkyBlue | Output                | OUT #20              | #2 coin mech meter .              |
|          | PIN 20        |             |                       |                      |                                   |
|          |               |             | Crystal Vibrator 11.0 | 592Mhzis used in the | e Main PCB.                       |

## **ERROR CODES**

| ERROR<br>CODES | PROBLEM                                    | SOLUTION   |  |  |  |
|----------------|--|--|--|--|--|
| E1             | Coins Get Stuck In The<br>Coin Mechanism   | <ol> <li>Check if the coins are jammed.</li> <li>Check if the coin feedback switch is in "NC" mode.</li> </ol>   |  |  |  |
| E2             | Prize Out Abnormal                         | <ol> <li>Check if the prize out door is being blocked or not.</li> <li>Check if the receiver is dirty or not.</li> <li>Check if the checkout console is sensitive or not.</li> </ol> |  |  |  |
| E3             | Chip U12 – Error                           | <ol> <li>Check whether Chip U 12 is properly inserted or not.</li> <li>Replace Chip U12.</li> </ol>  |  |  |  |
| E4             | Claw Up Abnormal                           | Check whether the motors for the Claw or the switch are workin properly or not.  |  |  |  |
| E6             | Claw does not return to the HOME positions | Check if the motors of the crane and the limiting switches are working properly or not.  |  |  |  |

## Note: it won't be informed in case of any change of the performance of the

machine, contents of the manual or the program!