



Screw Driver[®]



User Guide

Remark: Photos are for your reference only,
please regard the actual product as the truth.



Warning

- Please read this user guide carefully before operation to ensure the safe operation of this machine.
- Please keep this user guide in order to check when you need in the future.

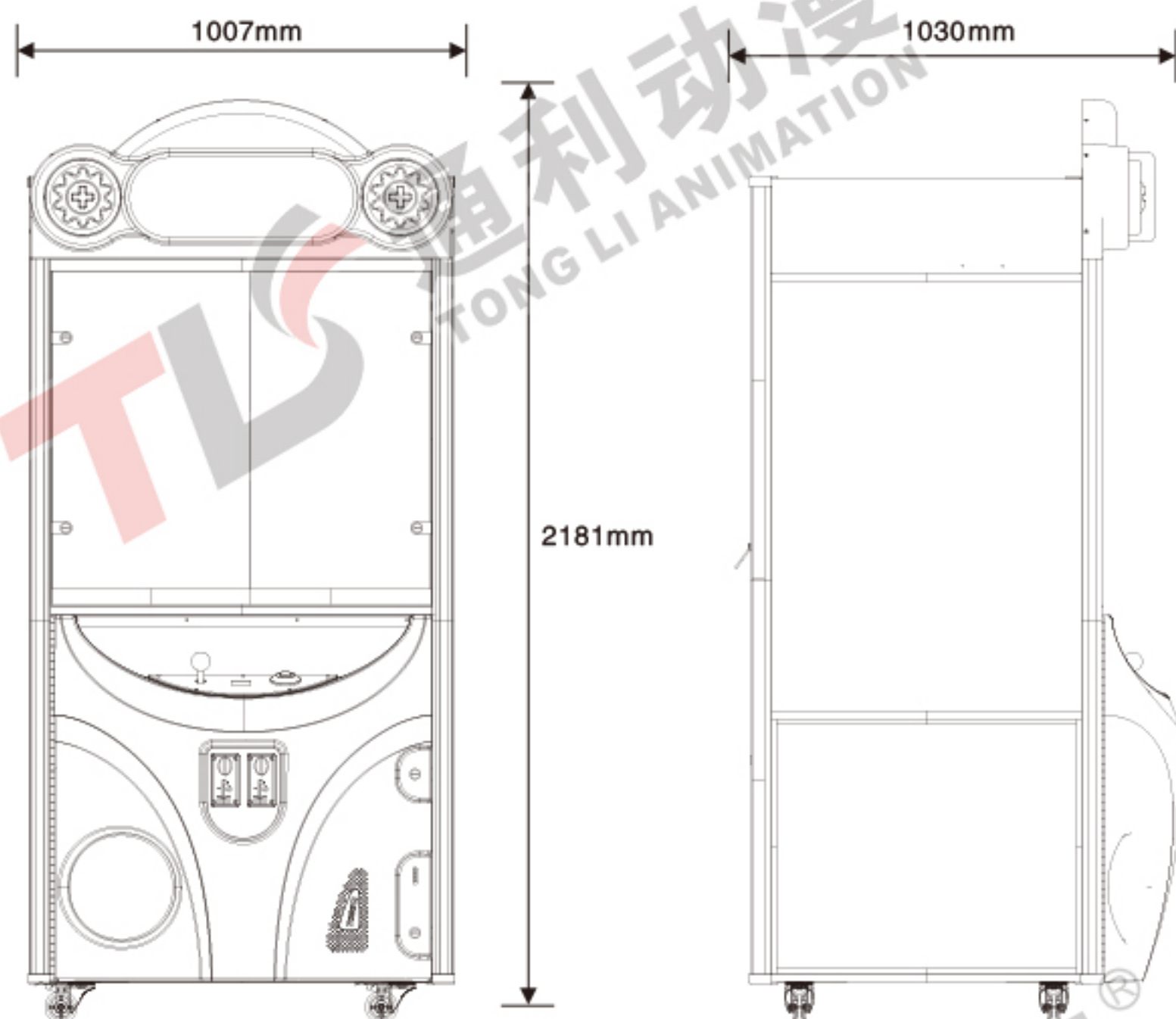


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1.Specification and dimension

1-1. Dimension



1-2. Specification

Dimension (W × D × H)	1007x1030x2181 (mm)
Weight (KG)	210kg
Voltage (Hz)	AC 220V (50 – 60 Hz)
Power consumption	423W

1-3.List of components

NO.	Name	Specification	Quantity
1	Power line	220V 	1
2	Key		2
3	Internal hexagonal wrench	3.0mm 	1
4	Internal hexagonal wrench	2.5mm 	1
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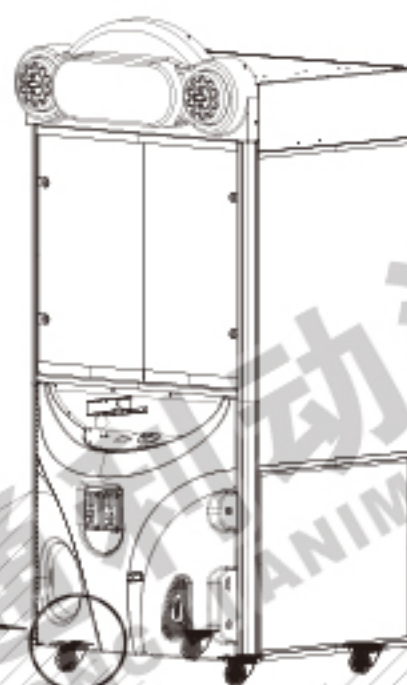
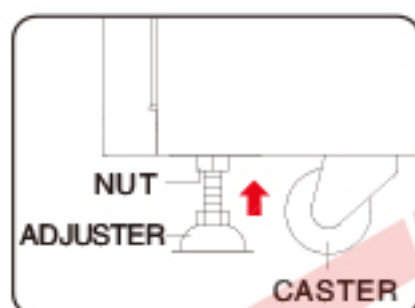
2.Installation

2-1. Installation

- Need to have installation place.
Maintenance Zone&Play zone should have at least
2000mm x 2500mm each

Important

- Once you set up the machine with required game-paly area,when installing this product, set the 4 leg levelers evenly on the floor and make sure that the products is installed stably in a horizontal position.
Otherwise the set winning percentage can be twisted.



PLAYZONE+
MAINTENANCE ZONE

2000mm

2000mm

3.How To Play

1. Insert enough coins into coin slot, the screw with prize flashes pink lights.
2. Select an object, press button to start.
3. When the screw driver is moving forward, the closest screw with prize changes into red light, if the prize runs out, the screw change into blue light.
4. Once the screw driver approaches to the object, push [ASCEND] button, the screw driver moves up.
5. Choose the right position to release [ASCEND] button, the screw driver stops moving up and push forward.
6. If the screw driver matches with screw successfully, then twists the screw to win the prize.
7. Otherwise, game is over.

Note:

When play time is less than 5s, it sound an alarm. If no operation taking, the screw driver pushes forward automatically to end the game (game play time can be adjust to 30s, 40s, 50s or 60s by SW3).

4.Passcode Description

Press K8 to enter the page of [PASSCODE] on LCM

User Password: Press K3, [USER PASSCODE] shows on LCM.

(Press K4 six times to enter the options page)

The first code shows 0, press K1 or K5 to choose number,

K4 to enter the next code, Press K2 to choose previous code.

When enter 6 code (can be reset) correctly, it will turn to options page. Press K6 back to [PASSCODE] page.

LCM Display

1.SETFUNCTION

2.CASHFUNCTION

3.CANCELFUNCTION

4.SET PASSCODE

Press K1,K2,K3,K4 to choose functions, press [SERVICE] back to homepage.

5.Passcode Setting

Passcode Setting→ LCM display [SET PASSCODE]

0

Press K1 or K5 to choose 6 codes, K4 to set the next code, K2 back to previous code. After 6 codes confirmed, LCM flash passcode four times, display [OK] to finish. Press [SERVICE] back to homepage.

6.Setting Function

*Press [SET/K8] to boot up, type the passcode and K1 to enter.

LCM displays as below: 1.DATA SET

2.TIME SET

3.COORDINATE SET

4.PRIZE SET

Press K1, K2, K3, K4 or K5 to choose the function correspondingly.

1.DATA SET(system initialization)→ Press K1 to enter this function, LCM displays [DATA SET]. Press [SERVICE] button return to options page and initialization unfinished. Press [ENTER/K3] to complete the initialization (LCM will flash [INIT OK] for three times then shows [OP]), press [SERVICE] button return to options page.

PS:

A. After initializing, all record will be clear.

B. Prize price is the value of 10 rounds by DIP SW setting

C. Coins v.s. Tokens is set by DIP SW2, could not be changed until initializing again.

D. The coordinate of each screw will not change by initialization.

E. Initializing is necessary after Program updating.

2.Time set→ Press K2 to enter [TIME SET] display

If time set is unfinished, press [SERVICE] button return to homepage

Press [ENTER/ K3] to complete time set, LCM display the specific time.

The original time is start from 15:14, 14th Mar, 2015. The LCM display [OP].

Press [SERVICE] return to homepage.

PS: This function is need for Audit System.

3.COORDINATE SET→ Press K3 and display [SE], LCM shows ABCDEFGH

screws, press K2 or K4 to choose, [ENTER/K3] to confirm, then the RGB of screw will flash blue light five times. Move the motor by K2(left), K4(right),

K1(up), K5(down), K3(forward), K9(back) or K7(rotate the motor) to adjust coordinate.

K8[SET] to confirm, if the RGB flashes green light, coordinate setting is completed, or RGB with red lights, it is failed (coordinate will not be updated if it is far from the screw). Press [CANCEL/K6] back to screw options, [SERVICE] button return to homepage.

(When screw driver pushes forward to the end, please do not move it until it moves back and leave the slot, or screw driver may be damaged.)

PS: If power on, the display shows code[39], it means screw is out of range.

The LCM displays [AXIS SET OR ENTER], coordinate needs to be reset.

3-1. SET→ K8 to enter coordinate set and follow the above instructions to reset.

COORDINATE SET (When screw driver pushes forward to the end, please do not move it until it moves back and leave the slot, or screw driver may be damaged.)

3-2. ENTER (set coordinate as default)→K3 to set and store screw coordinate as default, automatically restart machine. (Since the internal structure of each machine is not the same, it would be more precise by manual adjustment.)

4. PRIZE SET→ K4 to enter PRIZE SET, LCM displays ABCDEFGH screws, press K2(←) or K4(→) to choose screw, K3 to confirm and the RGB light will turn to pink.

LCM display as below: =====(?)GIFT=====

PRIZE:(round)

=====

K1:progressive increase ones digit, K5:progressive decrease ones digit

K4:progressive increase tens digit, K2: progressive decrease tens digit

K3:progressive increase hundreds digit,,

K9:progressive decrease hundreds digit

Press [K8/ SET] to confirm, then return to the previous page to set the rest of screws. If press [K6/ CANCEL], the prize set is canceled and return to the previous page to set the rest of screws. Press [SERVICE] button back to homepage.

(If the screw prize set has been changed, all record will be clear. If the prize set to "9999", the win proportion is "ZERO", then confirm the setting, the RGB will flash six times to complete)

7. Clear Mode

Press [SET/K8] to boot up, type the passcode and [ENTER/ K3]

LCM display as below

=====

A B C D E F G H

=====

press K2(←) or K4(→) to choose screw, K3 to confirm and the RGB light will turn to pink. LCM display as below:

=====(?)CLEAR=====

P:? N:?

GIFT NUMBER:?

R:? PRIZE:?

P (total rounds of playing)

N (total rounds to give away next prize)

GIFT NUMBER (total number of prize winning)

R (the default coordinate deviation)

PRIZE (total rounds for prize winning)

**Then press [SET/K8] to clear all data, except for PRIZE.

Press [CANCEL/K6] back to choose screws, then press [SERVICE]
return to homepage.

8.Audit mode

Press [SET/K8] to boot up, type the passcode and [ENTER/ K3]

LCM display as below

=====

1.CHECK RECORD

2.CHECK SET DATA

=====

1.CHECK RECORD→press K1 to enter,

[ENTER/K3]can check the record in order, LCM display as below:

COINSCORE

GIFTSCORE

PLAYIN

PLAYOUT

*****Press [SERVICE] return to homepage*****

2.CHECK SET DATA→Press K2 to enter, Press K3 to check the coordinate, playout and the total number of each screw has been chose,

LCM displays as below:

AXIS

\$

N

(screw number)→(X axis): (Y axis) (playin) (playout)

Press [ENTER/K3] to check the detailed information of each screw.

The final ID is the serial number of PCB board (Reserved for statistics).

Press [SERVICE] return to homepage.

9.Main Board and coordinate test function

Press K7 to boot up and test the PCB board or self-calibration function

LCM displays as below

=====

1.TEST MBOARD

2.COORDINATE TEST

=====

Press K1 to test the PCB board

Press K2 to automatically calibrate the coordinate,

Press[SERVICE] button return to options page.

10.Self-calibration function

Press K7 to boot up, and K2 to enter the self-calibration function

LCM displays as below

=====

Auto←→Select

=====

Press K2 to choose Auto or K4 for Select

Auto(automatically calibrate the coordinate) This function automatically tests the coordinate of every screw in order, and calibrate the coordinate. LCM shows the target coordinate and moving coordinate, the confirmed screw shows white RGB light. Press [SERVICE] back to options page.

Select(signal screw coordinate calibration) This function automatically tests the coordinate of single screw, and adjust the coordinate. LCM shows the target coordinate and moving coordinate, the confirmed screw shows white RGB light. Press [SERVICE] back to options page.

PS: This function can adjust the coordinate.

11.PCB function instruction

Hold&pressing TEST(K7),press (K1) before power on,enter to testing RGM and DISPLAY

LCM Display

=====

TEST RGB LED

DSP LED

=====

Now RGB light of each pole will be on Red,Green,Blue and DISPLAY.

Display each step in sequence,if press ENTER(K3)button,then all RGB light will be white and DISPLAY will be all light on till release ENTER(K3)button,then go on the step before,press(K4) button and enter to next testing function.

Test voice function,now monitor display 11,LCM display TEST VOICE,press ENTER(K3),play the sound in sequence,if press(K2),it'll back to test function,press(K4)button to next test function.

Test each output action,now monitor display 22,LCM display TEST OUTPUT.

- 1.Press SHIFT(K9) to boost motor of moving to left,it won't respond once reach to left-stop SW.
 - 2.Press CANCEL(K6) to boost motor of moving to right,it won't respond once reach to right-stop SW.
 - 3.Press SET(K8) to boost motor of moving to back.it won't respond once reach to back-stop SW.
 - 4.Press SET(K7) to boost motor of moving to forward.it won't respond once reach to forward-stop SW.
 - 5.Press ENTER(K3) to boost rotating motor.
 - 6.Press (K1) to boost rise motor,it won't respond if reach to set highest coordinate.
 - 7.Press (K5) to boost decline motor, it won't respond once reach to decline SW.
 - 8.When coin selector SW NO,ground signaling will be breakover.
 - 9.It will output small ball driver signal when small ball SW NC.
 - 10.It will output ticket driver signal when ticket SW NC.
 - 11.Press left-moving or right moving button,it will be displayed <= OR => on 3rd line of LCM.
 - 12.Press decline and rise button to light up rise button light.
 - 13.When door shield is SW NC,it will output door shield driver signal.
- If press (K2),then back to last step testing function,press (K4) to next testing function.

Hanging prize instruction,now monitor display 33.

When hang the prize,it will be locked till RGB circle light on,avoid to be dead lock and lead to damage the machine.

If press (K2),then back to last step testing function,press (K4) to next testing function.

* Test each output sense signal,now monitor display 44.

Display each sense signal for NO(1) or OFF(0) on LCM.

(DIPSW1-1~8)

0 0 0 0 0 0 0 0

(DIPSW3-1~8)

0 0 0 0 0 0 0 0

(DIPSW2-1~8)

0 0 0 0 0 0 0 0

(K1~K9,GAM,CAL)

0 0 0 0 0 0 0 0 0 0

(Coinselector Bill Servicebutton Shocking Left-Stop Right-Stop Forward-Stop Back-Stop Down-Stop)

0 0 0 0 0 0 0 0 0 0

(Up&DownpositioningSW1 Up&DownpositioningSW2 Left&RightpositioningSW1 Left&RightpositioningSW2)

0 0 0 0

The signal of prize pole approaching will display on the 4th line

A Pole B Pole C Pole D Pole E Pole F Pole G Pole H Pole

0 0 0 0 0 0 0 0

If there is prize on the prize pole,RGB light will on with red light,or it will be off.

Press service button will get back to main game when in testing function.

* Hold and presing CANCEL(K6) to power off,enter to checking and maintain push pole coordinate function.

—Once enter to LCM,monitor display

=====FIX AXIS=====

X:(Left and right moving coordinate value.)

Y:(Up and down moving coordinate value.)

Time displayer flashing with FS code,if sense left&right&forward&back&down -stop SW,it will display L R F B D etc..on the 2nd line by LCM,it can drive any motor in this function,can press K2(left moving motor),K4(right moving motor), K1(Up moving motor),K5(Down moving motor),K3(Forward moving motor), K9(Back moving motor),K7(Rotating motor).

12.LCM panel buttons function instruction

GAME CAL.



(Attention: This DIP SW must to confirm to be left or right, it will be invalid for panel setting when in the middle.)

DIP SW1
1 2 3 4 5 6 7 8

DIP SW2
1 2 3 4 5 6 7 8

DIP SW3
1 2 3 4 5 6 7 8

SET K8	+ ↑ K1	TEST K7
← K2	ENTER K3	→ K4
SHIFT K9	K5 ↓ -	CANCEL K6

13.DIP SW Setting manual

1.)DIP SW1		1	2	3	4	5	6	7	8
Standby	Fixed adjustment	OFF	OFF	OFF					
Coin qty setting	1coin4credits				ON	ON	ON		
	1coin3credits				OFF	ON	ON		
	1coin2credits				ON	OFF	ON		
	1coin1credits				OFF	OFF	ON		
	4coin1credits				ON	ON	OFF		
	3coin1credits				OFF	ON	OFF		
	2coin1credits				ON	OFF	OFF		
	1coin1credits				OFF	OFF	OFF		
Standby	Fixed adjustment							OFF	
Set all value of prize	The same A pole setting.								ON
	Set by internal value								OFF
Factory settings		OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF

2.)DIP SW2		1	2	3	4	5	6	7	8
Corresponding money from token	1000RMB	ON	ON	ON					
	500RMB	OFF	ON	ON					
	100RMB	ON	OFF	ON					
	50RMB	OFF	OFF	ON					
	20RMB	ON	ON	OFF					
	10RMB	OFF	ON	OFF					
	5RMB	ON	OFF	OFF					
	1RMB	OFF	OFF	OFF					
Corresponding token from money	50Pcs tokens				ON	ON	ON		
	20Pcs tokens				OFF	ON	ON		
	10Pcs tokens				ON	OFF	ON		
	5Pcs tokens				OFF	OFF	ON		
	4Pcs tokens				ON	ON	OFF		
	3Pcs tokens				OFF	ON	OFF		
	2Pcs tokens				ON	OFF	OFF		
	1Pcs tokens				OFF	OFF	OFF		
Door shift function setting	None							ON	
	Yes							OFF	
Bill acceptor output setting	RS232								ON
	Normal								OFF
Factory settings		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

3.)DIP SW3		1	2	3	4	5	6	7	8
Time of door shift opening	60sec	ON	ON						
	50sec	OFF	ON						
	40sec	ON	OFF						
	30sec	OFF	OFF						
Game time	60sec			ON	ON				
	50sec			OFF	ON				
	40sec			ON	OFF				
	30sec			OFF	OFF				
Operation mode	Exhibition mode					ON			
	Normal mode					OFF			
Standby	Fixed adjustment						OFF	OFF	OFF
Factory settings		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

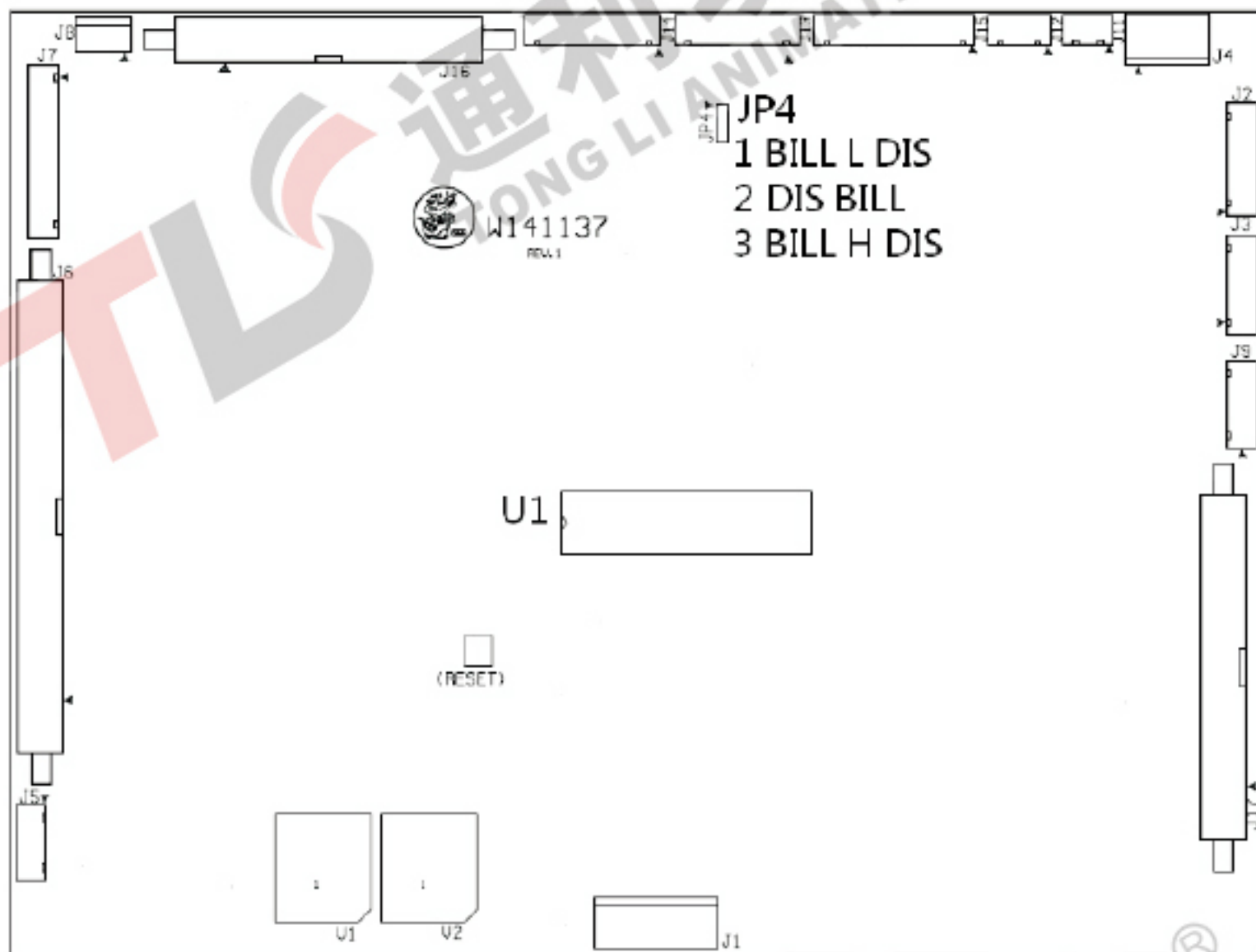
14.Trouble code instruction

- | | |
|---|--|
| 09: Operating records mistake | 40: X axis positioning is unusual |
| 12: Insert coin skips list trouble | 41: Y axis positioning is unusual |
| 13: Bill acceptor skips list trouble | 44: Not connect the timer |
| 15: Prize skips list trouble | 52: Prize exit door shift is not close well |
| 16: Machine serial number chip no response | 58: Program is not same with last time
(Must reset to solve.) |
| 17: Received machine serial number is incorrect | 60: Low position record trouble |
| 18: Received PCB version is correct | 61: High position record trouble |
| 20: No prize | 68: Not connect LCD module |
| 21: Machine is shocked | 70: Motor is not return back when machine is standby |
| 30: Coin selector trouble | 80: Forward-stop SW trouble |
| 38: Motor is not return back over 15sec | 81: Back-Stop SW trouble |

15.PCB wiring instruction

Main board CONNECTOR location plan

W141137(V1):



J11(2.5mm-3P)Coin selector	
1	+12V
2	Sensor of coin selector
3	Coin selector grounding-(Control)

J12(2.5mm-4P)Bill acceptor	
1	+12V
2	Sensor of bill acceptor
3	Bill acceptor forbidden energy signal
4	GND

J8(2.54mm-4P) Connect winning signal control card W141244/V0 J1		
1	S1	Connect W141244 (J1-1) -2.5mm
2	S2	Connect W141244 (J1-2) -2.5mm
3	S3	Connect W141244 (J1-3) -2.5mm
4	GND	Connect W141244 (J1-5) -2.5mm

J3(2.5mm-7P) RS232 Communications port(Bill acceptor)		
1	+12V	
2	RTS	
3	CTS	
4	RXD	
5	TXD	
6	GND	
7	GND	

J2(2.5mm-8P) RS232 Communications port(Connect audit card.)		
1	+12V	
2	RTS	
3	CTS	
4	RXD	
5	TXD	
6	GND	
7	Intelligent communication signal	
8	GND	

J5(2.5mm-5P) Speaker		
1	VR1	Connect adjustable resistance
2	VR2	Connect adjustable resistance
3	GND	Connect adjustable resistance
4	SP+	
5	SP-	

J9(2.5mm-6P) Skip list		
1	+12V	
2	Coin selector skip list	
3	Bill acceptor skip list	
4	Ticket(Ball) skip list	
5	Prize skip list	
6	GND	

J13(2.5mm-9P)		
1	Door shift driver signal.	
2	Door shift driver signal.	
3	GND	
4	GND	
5	GND	
6	Door shift sense SW	
7	GND	
8	Shocking machine sense SW	
9	GND	

J14(2.5mm-10P)		
1	+12V	
2	Small ball driver signal +	
3	Small ball driver signal -	
4	Small ball sensor signal	
5	GND	
6	+12V	
7	Ticket driver signal +	
8	Ticket driver signal -	
9	Ticket sensor signal	
10	GND	

J15(2.5mm-12P)		
1	GND	
2	Service button signal	
3	GND	
4	Right-moving button signal	
5	Left-moving button signal	
6	Up-moving button signal	
7	GND	
8	Back up button signal	
9	Back up button signal	
10	Up-moving button light	
11	Controlling signal output+	W140311(J1-4)
12	GND	W140311(J1-5)

J7(2.5mm-13P) External connect double 8 display card (W991907)		
1	Seven-segment monitor A segment	W991907(JP1-1)
2	Seven-segment monitor B segment	W991907(JP1-2)
3	Seven-segment monitor C segment	W991907(JP1-3)
4	Seven-segment monitor D segment	W991907(JP1-4)
5	Seven-segment monitor E segment	W991907(JP1-5)
6	Seven-segment monitor F segment	W991907(JP1-6)
7	Seven-segment monitor G segment	W991907(JP1-7)
8	Seven-segment monitor H segment	W991907(JP1-8)
9	GND	X
10	Seven-segment monitor scanning line 1	W991907(JP1-10)
11	Seven-segment monitor scanning line 2	W991907(JP1-9)
12	Seven-segment monitor scanning line 3	X
13	Seven-segment monitor scanning line 4	X

J4(3.96mm-4P) Connect prize box controlling card W150523 J2		
1	+12V	Connect W150523 (J2-1) 3.96"
2	RXD	Connect W150523 (J2-2) 3.96"
3	TXD	Connect W150523 (J2-3) 3.96"
4	GND	Connect W150523 (J2-4) 3.96"

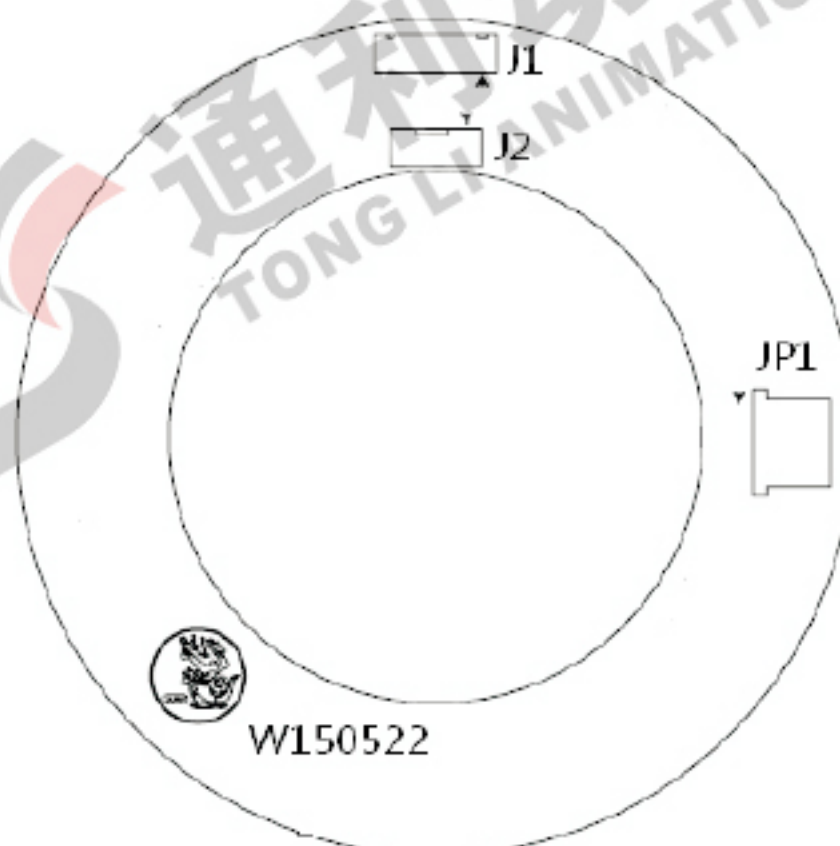
J1(3.96mm-6P) Power input port		
1	+5V	
2	GND	
3	GND	
4	+12V	
5	GND	
6	+24V	

J6Bull horn(30 X2)	Connect prize pole RGB light,prize sense signal W150522/V0 J1(2.0mm-7P)				
W150522(J1-1)	+12V	1	2	+12V	W150522(J1-1)
W150522(J1-2)	A-S1	3	4	B-S1	W150522(J1-2)
W150522(J1-3)	A-S2	5	6	B-S2	W150522(J1-3)
W150522(J1-4)	A-S3	7	8	B-S3	W150522(J1-4)
W150522(J1-5)	GND	9	10	GND	W150522(J1-5)
W150522(J1-6)	A prize sense SW	11	12	B prize sense SW	W150522(J1-6)
W150522(J1-7)	APole rotating sense	13	14	BPole rotating sense	W150522(J1-7)
W150522(J1-1)	+12V	15	16	+12V	W150522(J1-1)
W150522(J1-2)	C-S1	17	18	D-S1	W150522(J1-2)
W150522(J1-3)	C-S2	19	20	D-S2	W150522(J1-3)
W150522(J1-4)	C-S3	21	22	D-S3	W150522(J1-4)
W150522(J1-5)	GND	23	24	GND	W150522(J1-5)
W150522(J1-6)	C prize sense SW	25	26	D prize sense SW	W150522(J1-6)
W150522(J1-7)	CPole rotating sense	27	28	DPole rotating sense	W150522(J1-7)
W150522(J1-1)	+12V	29	30	+12V	W150522(J1-1)
W150522(J1-2)	E-S1	31	32	F-S1	W150522(J1-2)
W150522(J1-3)	E-S2	33	34	F-S2	W150522(J1-3)
W150522(J1-4)	E-S3	35	36	F-S3	W150522(J1-4)
W150522(J1-5)	GND	37	38	GND	W150522(J1-5)
W150522(J1-6)	E prize sense SW	39	40	F prize sense SW	W150522(J1-6)
W150522(J1-7)	EPole rotating sense	41	42	FPole rotating sense	W150522(J1-7)
W150522(J1-1)	+12V	43	44	+12V	W150522(J1-1)
W150522(J1-2)	G-S1	45	46	H-S1	W150522(J1-2)
W150522(J1-3)	G-S2	47	48	H-S2	W150522(J1-3)
W150522(J1-4)	G-S3	49	50	H-S3	W150522(J1-4)
W150522(J1-5)	GND	51	52	GND	W150522(J1-5)
W150522(J1-6)	G prize sense SW	53	54	H prize sense SW	W150522(J1-6)
W150522(J1-7)	GPole rotating sense	55	56	HPole rotating sense	W150522(J1-7)
	GND	57	58	GND	
	GND	59	60	GND	

J17 Bull horn (20 X2)				
Up&Down motor+	1	2	Up&Down motor-	
Forward&Back motor+	3	4	Forward&Back motor-	
Left&Right motor+	5	6	Left&Right motor-	
Rotation motor+	7	8	Rotation motor-	
GND	9	10	GND	
GND	11	12	GND	
Left-stop approach sensor	13	14	Right-stop approach sensor	
+12V	15	16	+12V	
Forward-stop SW	17	18	Back-stop SW	
GND	19	20	GND	
GND	21	22	Standby SW	
Down-stop approach sensor	23	24	GND	
+12V	25	26	GND	
Back up SW	27	28	GND	
GND	29	30	GND	
Left&Right positioning sensor 1	31	32	Left&Right positioning sensor 2	
+5V	33	34	+5V	
GND	35	36	GND	
Up&Down positioning sensor 1	37	38	Up&Down positioning sensor 2	
+5V	39	40	+5V	

J16Bull horn(17 X2)	Connect LCM small button one on one			
	(W110716-JP1)			
GND	1	2	SRL0	
+5V	3	4	SRL1	
VO	5	6	SRL2	
RS	7	8	SRL3	
GND	9	10	SRL4	
EN	11	12	SRL5	
D0	13	14	SRL6	
D1	15	16	SRL7	
D2	17	18	SL0	
D3	19	20	SL1	
D4	21	22	SL2	
D5	23	24	SL3	
D6	25	26	SL4	
D7	27	28	GND	
+5V	29	30	GND	
GND	31	32	GND	
GND	33	34	GND	

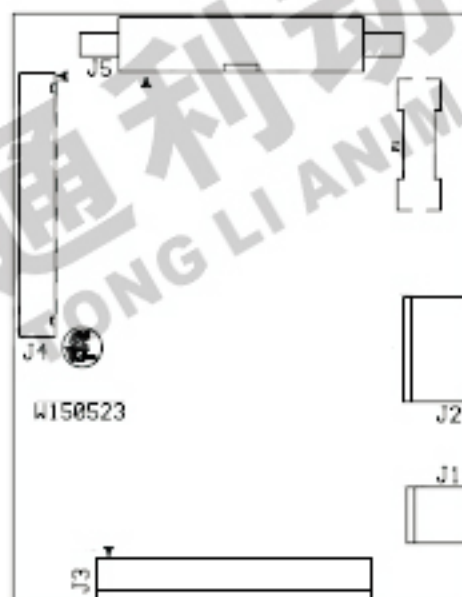
W150522(V0): Prize pole circle RGB light panel.



J2(2.0mm-5P)		
1	+12V	
2	RSW	Prize pole rotation sense
3	GND	
4	GSW	Prize sense SW
5	GND	

J1(2.0mm-7P) Connect main board W141137/V1 J6 (Bull horn-60P)		
1	+12V	
2	S1	
3	S2	
4	S3	
5	GND	
6	GSW	
7	RSW	

W150523(V0): Prize box controlling card



J4(2.5mm-16P) External connect prize box LED indicator light		
1	LED1+	
2	LED1-	
3	LED2+	
4	LED2-	
5	LED3+	
6	LED3-	
7	LED4+	
8	LED4-	
9	LED5+	
10	LED5-	
11	LED6+	
12	LED6-	
13	LED7+	
14	LED7-	
15	LED8+	
16	LED8-	

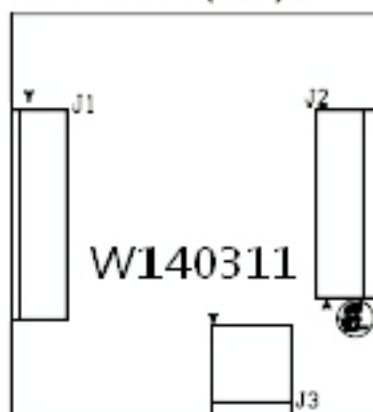
J3(2.54mm-16P) External connect prize box		
1	SW1	
2	GND	
3	SW2	
4	GND	
5	SW3	
6	GND	
7	SW4	
8	GND	
9	SW5	
10	GND	
11	SW6	
12	GND	
13	SW7	
14	GND	
15	SW8	
16	GND	

J5Bull horn(8 X2)	Connect prize box magnetic valve				
	M1-	1	2	+12V	
	M2-	3	4	+12V	
	M3-	5	6	+12V	
	M4-	7	8	+12V	
	M5-	9	10	+12V	
	M6-	11	12	+12V	
	M7-	13	14	+12V	
	M8-	15	16	+12V	

J1(3.96mm-2P) Back up power supply		
1	+12V	
4	GND	

J2(3.96mm-4P) Connect main board W141137/V1 J4		
1	+12V	Connect 141137/V1(J4-1)3.96"
2	TXD	Connect 141137/V1(J4-2)3.96"
3	RXD	Connect 141137/V1(J4-3)3.96"
4	GND	Connect 141137/V1(J4-4)3.96"

W140311(V0):



J2(3.96mm-8P) Output controlling signal		
1	X	
2	X	
3	X	
4	X	
5	LAMP+	
6	X	
7	GND	
8	GND	

J1(2.54mm-9P) Input controlling signal		
1	X	
2	X	
3	X	
4	Controlling signal input+	W141137(J15-11)
5	GND	W141137(J15-12)
6	X	
7	X	
8	X	
9	X	

MAINTENANCE

Dear Customers:

Thanks for your purchasing from Tong Li! We will constantly improve our quality and service, and provide you better quality, high-efficiency, professional products and after-sales service. For protect your legitimate rights and interests, please read this manual detail, and knowing our service content, if the products and accessories were broken without according to this manual, we will not responsible for warranty, and only provide products and accessories for value.

1. Guarantee term.

Guarantee period of crane machines electronic components is 12 months from the purchasing. (Base on the PI date.).

2. The situation without guarantee.

After you purchase this product, if the machines were broken by below reasons, we can not provide guarantee according to this term, and will provide you service for value.

- (1) The whole machine or the parts is over the guarantee period.
- (2) LCD monitor surface is scuffing, weeping, fracture by human error.
- (3) User breached this manual, install, keeping and use wrongly causes to broken.
- (4) Fixing by person without our company authentication, user fixed (Wrong operation, scuffing, knock mark by human error, water-dampness, supply improper voltage.) causing to broken.
- (5) No purchase and guarantee voucher.
- (6) Guarantee and purchase voucher are modified by human.
- (7) The model and number are not match with matter.
- (8) The machine broken due to using the accessories without our authentication
- (9) The machine broken due to natural disaster (earthquake, fire).

3. Service type.

- (1) Once the products are broken down, please notice to us at once.
- (2) Products breakdown maintenance, please must send the unserviceable component to us, and provide the related purchasing voucher.

4. Reminder

- (1) The accessories during the fixing are belong to our company.
- (2) The service for value is containing cost of labor and fixing material.

5. Service and support.

- (1) Please review our website www.tonglianimation.com to get the latest information.
- (2) Technical support and after-service tel: 86-20-23885090/39960806

MEMO





Product name:Screw Driver

Company name:Guangzhou Tong Li Animation Technology co.,ltd.

Address:H19 Startoon City,No.143 Yingxing East Road,Donghuan Street,Panyu,Guangzhou.China

Version:Ver1.0

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