

Show Time



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OPERATION

How to Play

1. Insert coins/tokens into coin slot, the display will show credits and the crane starts game music.
2. Use the joystick to move claw above your selected object. When you move the joystick, the game time counts down, and 【DESCEND】 button light is flashing.
3. When you press the 【DESCEND】 button or time runs out (game's playing time is adjustable), the gantry drives the motor to lower down the claw and attempts to catch object.
4. If 'Catch in air' function is available, press 【DESCEND】 button before claw reaches in field, the claws will catch item in the air.
5. After the claw closes, the claw rises up until it touches the Stop-Up SW. Then the claw moves to exit area and opens.

Game Rules

DEMO

Play Demo music for 2 minutes every 3 minutes.

Coin In

1. Coins per play: Controlled by DIP SW setting
2. If COIN pulse speed was lower than 10 milliseconds, the machine will not recognize the signal.
3. If coin pulse speed is over 200 milliseconds, the machine shows error code.

Shaking Machine

1. When a tilt is installed in the machine, and players shake the machine, it says "Don't Shake the Machine".
2. When the claw arms close and someone shakes the machine, the claw opens and moves back to the home position.

DIP SW Setting

1. DIP SW1		1	2	3	4	5	6	7	8
When the DIP SW2 PIN #6 is setup on "Play till you win", the claw strength voltage	VR1 Adj. of Power	ON							
	+48V	OFF							
Position where claws open at the exit	Claws lower down then release object		ON						
	Claws release object at the top position		OFF						
Coin 1 & Coin 2 Linked Together	Yes			ON					
	No			OFF					
Adjustment of Credit Value	Inner Value				ON				
	DIP SW				OFF				
Bonus Plays (see bonus table) (4 pulses=\$1) when Dip SW1-4 is off	YES					ON			
	NO					OFF			
Claw moves to playfield when game begins	YES						ON		
	NO						OFF		
Reserved	FIXED							OFF	
At the moment the program sends strong strength on the basis of the setup winning percentage, the system will keep sending strongest strength to the claw until a prize is caught.	On								ON
	Off								OFF
Default Setting		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

2. DIP SW2		1	2	3	4	5	6	7	8
Coin1 setup (Number of coins per play)	8 : 1	ON	ON						
	6 : 1	OFF	ON						
	4 : 1	ON	OFF						
	2 : 1	OFF	OFF						
Coin2 setup (Bill Acceptor pulses per play)	4 : 1			ON	ON				
	3 : 1			OFF	ON				
	2 : 1			ON	OFF				
	1 : 1			OFF	OFF				
Free Play	On					ON			
	Off					OFF			
Play till you win function (Output Sensor must be included.)	On	<i>Will deduct 1 credit when win.</i>					ON		
	Off	<i>Will deduct 1 credit for each game.</i>					OFF		
Ability to change the Inner-Values	On							ON	
	Off							OFF	
Demo Game when nobody is playing	On								ON
	Off								OFF
Default Setting		OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

MAINTENANCE

TEST

System Test:

COIN1 NC +COIN2 NC+POWER ON (or Service NC+POWER ON)

Enter the system Test, DISPLAY shows 0~3, then press button to confirm.

0 EXIT

1 Claw Setting (COIN1 NC +POWER ON can also test Claw Setting)

2 Gantry Test (COIN2 NC +POWER ON can also test Gantry)

3 System Test F0 EXIT

;; F 1 DISPLAY and Light Test

;; F 2 DIP SW Test

;; F 3 Demo Sound

;; F 4 Auto Demo

;; F 5 RESERVED

;; F 6 BACK TO DEFAULT

;; F 7 Length of String adjustment

AUTO PERCENTAGING SETTING

SET Cost Of Play: (\$0.01~\$9.99)

Set Prize Value: (\$00.01~\$99.99)

Set Win Percentage (Range: 01~99 %)

How to Setup:

1. Tilt (NC) +Button (NC) + Turn Power ON

Display shows "P5" for setup auto percentage function.

2. Tilt (NO) + Button (NO)

Display "00" in flashing:

Use Joystick and button to adjust

Function Code:

00 Exit

01 Cost Of Play

02 Prize Value

03 Win Percentages

04 This number shows how many plays needed before full strength of claw

Bonus Play Table

CREDIT	PLAYS
\$1	1
\$2	3
\$3	4
\$4	6
\$5	7
\$6	9
\$7	10
\$8	12
\$9	13
\$10	15
\$11	16
\$12	18
\$13	19
\$14	21
\$15	22
\$16	24
\$17	25
\$18	27
\$19	28
\$20	30
\$21	31
\$22	33
\$23	34
\$24	36
\$25	37
\$26	39
\$27	40
\$28	42
\$29	43
\$30	45

■ Internal setting :

TIEM	Description	Instruction	
01	COIN1 – quantity of pay-out tickets after inserting coins (coin selector 1)	0~9	0
02	COIN2 – quantity of pay-out tickets after inserting coins (coin selector 2)	0~9	0
03	COIN1 – quantity of Inserted coins (coin selector 1)	1~9	1
04	COIN1 – quantity of game's credits (coin selector 1)	1~9	1
05	COIN2 – quantity of Inserted coins (coin selector 2)	1~9	1
06	COIN2 – quantity of game's credits (coin selector 2)	1~9	1
07	Quantity of pay-out tickets with winning prizes	0~9	0
08	Quantity of pay-out tickets without winning	0~9	0
09	Reserved		
10	Game time	0~5 = 5 5~99 Sec.	50
11	Reserved		
12	Reserved		
13	Reserved		
14	Reserved		
15	Reserved		
16	Reserved		
17	Reserved		
18	Reserved		
19	DEMO Music	0~1 0=On 1=Off	0
20	Shocking machine-sound	0~1 0= On 1=Off	0
21	Reserved		
22	Reserved		

ERROR CODE

Error Code	Description	Appearance	Trouble shooting
Er 00	CPU Error	When switch on the machine	<ol style="list-style-type: none"> 1. Change U1 CPU 2. PCB is out of service.
Er 01	Error while up the winding cord	<ol style="list-style-type: none"> 1. When switch on the machine 2. When play the game 3. Auto Demo 	<ol style="list-style-type: none"> 1. Check if the up-stop SW is loose? 2. Check if up-stop SW is out of work? 3. Check if the air-plug of the gantry set connects well? 4. PCB is fault.
Er 03	Error while down the winding cord	When auto demo	<ol style="list-style-type: none"> 1. Check if the string at the winding wheel is smooth? 2. Check if up-stop SW is out of work? 3. Check if the air-plug of the gantry set connects well? 4. PCB is fault.
Er 0E	SENSOR is out of service		<ol style="list-style-type: none"> 1. Check whether sensitivity of sensor is too high? Please adjust the sensitivity-VR to make sure the LED of Sensor is in Dark status. 2. Check J5 sensor harness is connected well? 3. Sensor is fault. 4. PCB is fault
Er 05	Stop-Forward SW or Stop-back SW Error	<ol style="list-style-type: none"> 1. When switch on the machine 2. When play the game 3. Auto Demo 	<ol style="list-style-type: none"> 1. Check if the stop-forward SW or stop-back SW is out of work? 2. Check if the air-plug of the gantry set connects well? 3. PCB is fault.
Er 06	Stop-Left SW Error	<ol style="list-style-type: none"> 1. When switch on the machine 2. When play the game 3. Auto Demo 	<ol style="list-style-type: none"> 1. Check if the Stop-Left SW is out of work? 2. Check if the air-plug of the gantry set connects well? 3. PCB is fault
Er 07	Coin1 Meter disconnected		<ol style="list-style-type: none"> 1. Check if the J5 PIN connects well? 2. Check if the Meter is out of work? Check if the Pin connects well? 3. PCB is fault.
Er 08	Coin2 Meter disconnected		
Er 09			
Er 10	Prize Meter disconnected		
Er 22	Cabinet size check Error when power on		<ol style="list-style-type: none"> 1. Check if the stop-front SW or stop-back SW is out of work? 2. Check if the air-plug of the gantry set connects well? 3. Check the J4 Pin on the board connect well? 4. PCB is fault

TROUBLE SHOOTING

Items	Description	Check and Maintenance
Coin In	No credit after coin in	<ol style="list-style-type: none"> 1. Check if the Coins vs. Plays is correct. 2. If Coins vs. Plays can't be adjusted, it's possible main board problem. Please send the main board back for repair.
	Coins/tokens cannot be inserted into coin slot	<p>Comparative Coin Mech:</p> <ol style="list-style-type: none"> 1. Check the sample coin at the coin mech. 2. Loose the coin mech sensitivity. 3. Check if DC12V input to coin mech. 4. Coin mech breakdown. <p>Multi-Coin Mech:</p> <ol style="list-style-type: none"> 1. Adjust the coin mech data based on manual. 2. Check if DC12V input to coin mech.
Claw Power	Claw open after hitting upper-stop switch	VR2 is too low. Adjust VR2 higher according to objects dimension and weight.
	Claw is close after power on	<ol style="list-style-type: none"> 1. Claw coil burned. 2. Main board is out of service
	Claw doesn't close	<ol style="list-style-type: none"> 1. Check if the CW at the fuse board burned? 2. Check if the black wire at claw coil connects well.
Gantry	Don't return to its home position	<ol style="list-style-type: none"> 1. If power off and on again, the gantry still does not return to its home position, then check if stop-back SW (Gantry & Assembly I No. 23) or stop-left SW (Gantry & Assembly I No. 21) are in proper position. Also check if their connecting wires are properly connected. 2. Check if the air-plug of the gantry set connects well? 3. PCB is out of service.
	Don't move either forward and/or backward by joystick operation	<ol style="list-style-type: none"> 1. Check if the forward/back motor fuse (FB) at the fuse board is burned? 2. Check if J5 connecting pin of P.C.B. is properly connected. 3. Check if stop-front SW (Gantry & Assembly I No. 22) or back-stop SW (Gantry & Assembly I No. 23) is in proper position. Also check if their connecting wires are properly connected. 4. Check if Front/Back motor is out of function or if its wires are properly connected. Also check if its shaft pinion is properly positioned. 5. Check if J9 connecting pin of P.C.B. is properly connected. 6. Check if all connecting pins of gantry are properly connected to the machine.

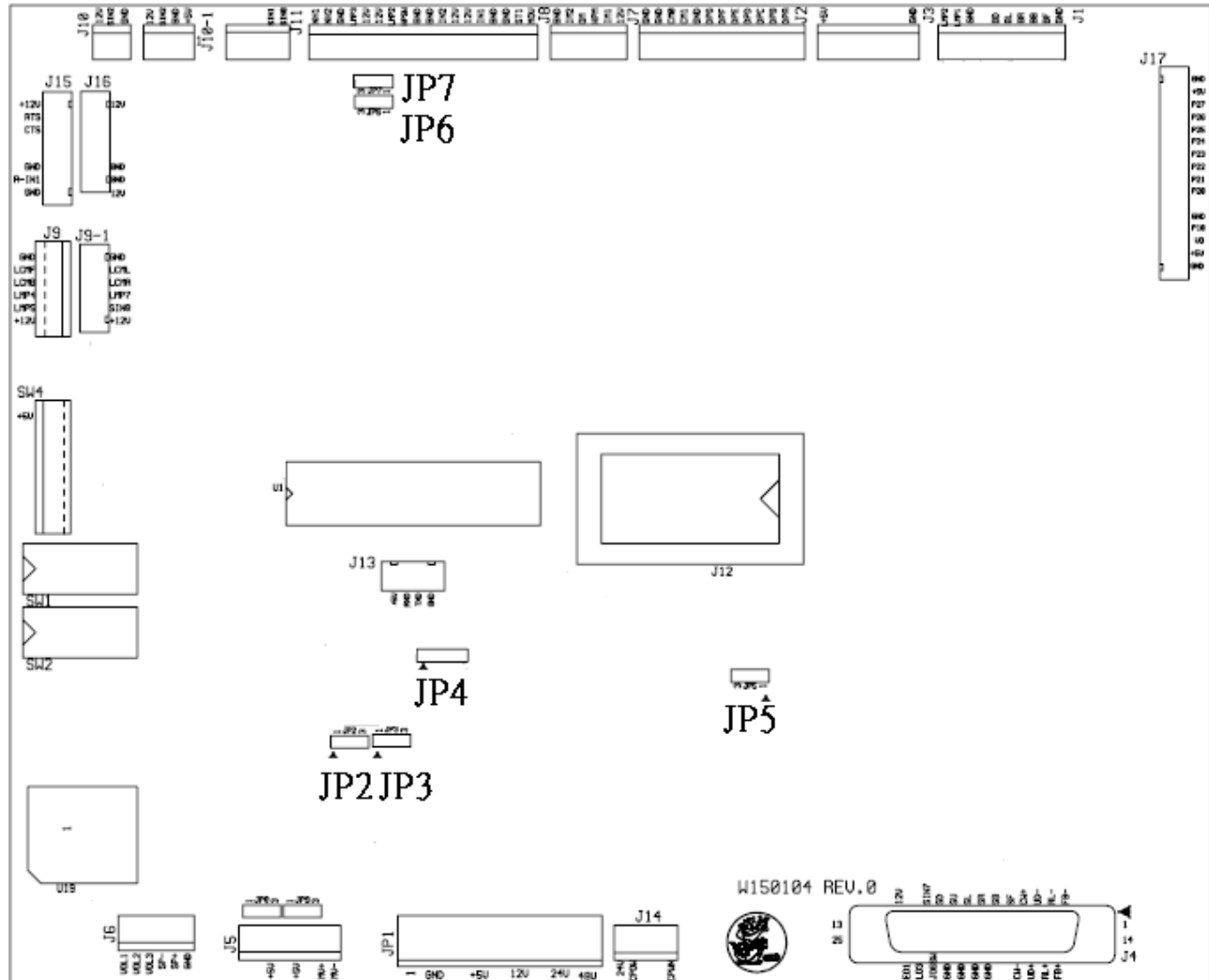
	Does not move to left and/or right by joystick operation	<ol style="list-style-type: none"> 1. Check if the left/right motor fuse (LR) at the fuse board is burned? 2. Check if left and/or right SW is out of function or if their wires are properly connected. 3. Check if J5 connecting pin of P.C.B. is properly connected. 4. Check if stop-left SW (Gantry & Assembly I No. 21) is in proper position. 5. Check if Left/Right motor is out of function or if its wires are properly connected. Also check if its shaft pinion is properly positioned. 6. Check if J9 connecting pin of P.C.B. is properly connected. 7. Check if all connecting pins of gantry are properly connected to the machine
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Items	Description	Check and Maintenance
Claw Descending	Don't lower down by 【Descend】 button operation, but only until time's up	<ol style="list-style-type: none"> 1. Check if 【Descend】 button is functioning properly. 2. Check if connecting wires of 【Descend】 button are properly connected. 3. Check if J5 connecting pin of P.C.B. is properly connected.
	Don't lower down, but the 【Descend】 button is in normal condition	<ol style="list-style-type: none"> 1. Check if Up/Down motor wires are properly connected. 2. Check if Up/Down motor is out of function. Also check if its shaft pinion is in proper position. 3. Check if J9 connecting pin of P.C.B. is properly connected. 4. Main board break down
	Don't lower down or only down a bit and close up in the air then it returns to its home position	<ol style="list-style-type: none"> 1. Check if winding cord is stuck. 2. Check if stop-down SW is functioning properly
	Don't fully lower down	<ol style="list-style-type: none"> 1. Check if winding cord is of proper length? 2. Check if winding cord is stuck. 3. Check if stop-down SW is functioning properly
Claw Grabbing	Don't open when reached to exit door after seizing	<ol style="list-style-type: none"> 1. Check if stop-back or stop-left SW is out of function or if their wires are properly connected. 2. Check if the gantry wire connecting to J9 connecting pin of P.C.B. is properly connected.
	Don't rise up after seizing and is returned back to its home position	<ol style="list-style-type: none"> 1. Check if stop-up SW is hit by something. 2. Check if stop-up SW is in proper position and in normal function. 3. Main board breaks down.
	Don't close up and not be returned to its home position, either	<ol style="list-style-type: none"> 1. Check if the up/down motor are out of function or if their wires are properly connected. 2. Check if stop-up SW is functioning properly. 3. Main board break down.

WIRING DIAGRAM

MAIN BOARD W150104

- Main board CONNECTOR position



W150104 3.96mm (JP1) POWER SUPPLY	
1	GND
2	GND
3	GND
4	+5V
5	+5V
6	+12V
7	+12V
8	+24V
9	+24V
10	+48V

W150104 2.54mm (J11)		W9833 JP3	
1		1	IN2
2		2	IN4
3		3	EN04
4		X	
5		4	EN05

W150104 2.54mm (J5)	
1	VR23
2	VR13
3	VR11
4	VR12
5	VR21
6	VR22
7	Voltmeter +
8	Voltmeter -

W150104 2.54mm (J14)		W040316 JP1	
1		1	
2		2	
3		3	
4		4	
5		5	

W150104 2.54mm (J6)	
1	Speaker VR 1
2	VR2
3	VR3
4	SP-
5	SP+

W150104 2.54mm (J10)	
1	GND
2	PRIZE SENSOR SINGAL
3	12V

W150104 2.54mm (J7)	
1	12V

2	COIN1 Meter
3	
4	Prize Meter
5	COIN2 Meter

W150104 2.54mm (J1)	
1	GND
2	Joystick -- Front SW(N.O.)
3	Joystick -- Back SW (N.O.)
4	Joystick -- Right SW (N.O.)
5	Joystick -- Left SW (N.O.)
6	Descend SW (N.O.)
7	
8	GND
9	Descend button lamp
10	lamp 2

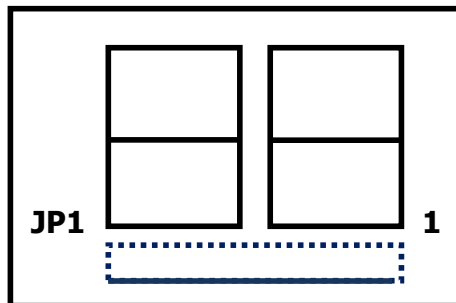
W150104 2.54mm (J2)		W991907 JP1	
1	X		X
2		1	
3		2	
4		3	
5		4	
6		5	
7		6	
8		7	
9	X	8	X
10		9	
11		10	
12	X	11	X
13	X	12	X

W150104 2.54mm (J8)	
1	TILT SW (N.O.)
2	DOOR TEST
3	GND
4	GND
5	COIN1
6	12V
7	12V
8	COIN2
9	GND
10	GND
11	HPSW
12	HP
13	12V
14	12V
15	SSR
16	GND

17	Coin Inhibit input +
18	Coin Inhibit input -

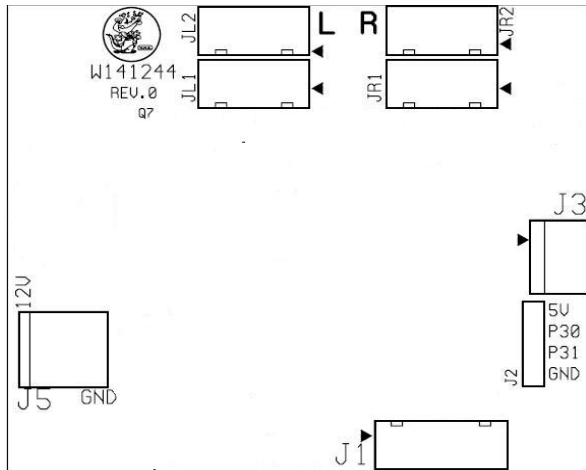
W150104 2.54mm (J4)			
1	Forward/Back Motor +	14	Forward/Back Motor -
2	Left/Right Motor -	15	Left/Right Motor +
3	Up Down Motor -	16	Up Down +
4	Claw Power+	17	Claw Power -
5	X	18	X
6	STOP FORWARD/BACK	19	GND
7	X	20	GND
8	Stop-Left / Right SW (N.O.)	21	GND
9	Stop-UP SW (N.C.)	22	GND
10	Stop-Down SW (N.O.)	23	
11	X	24	
12	X	25	X
13	12V		

DISPLAY W991907



J1	Color	2.54 Pin — connect W120206	
1	Brown	A	Connect to Main Board J5 Pin 1
2	Red	B	Connect to Main Board J5 Pin 2
3	Orange	C	Connect to Main Board J5 Pin 3
4	Yellow	D	Connect to Main Board J5 Pin 4
5	Green	E	Connect to Main Board J5 Pin 5
6	Blue	F	Connect to Main Board J5 Pin 6
7	Purple	G	Connect to Main Board J5 Pin 7
8		DP	Connect to Main Board J5 Pin 10
9	White	COM4	Connect to Main Board J5 Pin 9
10	Pink	COM3	Connect to Main Board J5 GND
11		COM2	
12		COM1	

RGB Control Board CONNECTOR



J5	c	PIN
1	Red	+12V
2	Black	GND

J3	color	PIN
1		+5V
2		P30
3		P31
4		GND

J1	color	PIN
1		NO 1
2		NO 2
3		NO 3
4		NO 4
5		GND

J3	color	PIN
1		Reseverd
2		
3		

JL1	color	PIN
1	Black	G
2	Brown	R
3	Red	B
4	Orange	GND

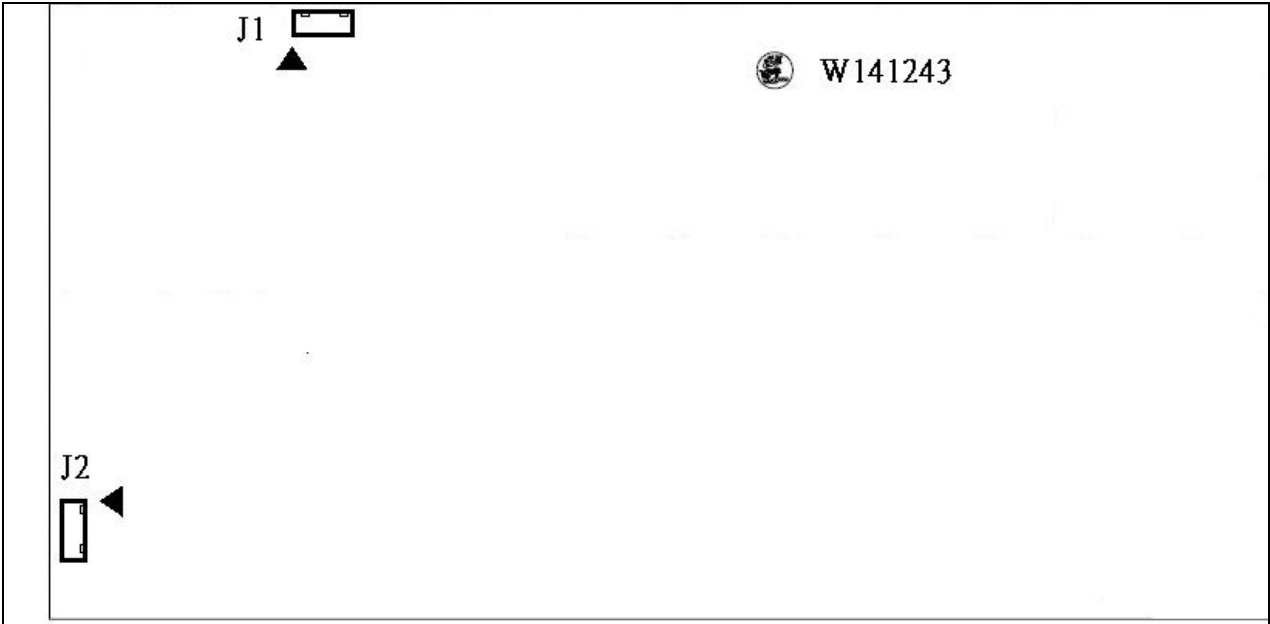
JL2	color	PIN
1	Black	G
2	Brown	R
3	Red	B
4	Orange	GND

JR1	color	PIN
1	Black	G
2	Brown	R
3	Red	B
4	Orange	GND

JR2	color	PIN
1	Black	G
2	Brown	R
3	Red	B
4	Orange	GND

SECTION 4. W141243WIRING DIAGRAM

CONNECTOR

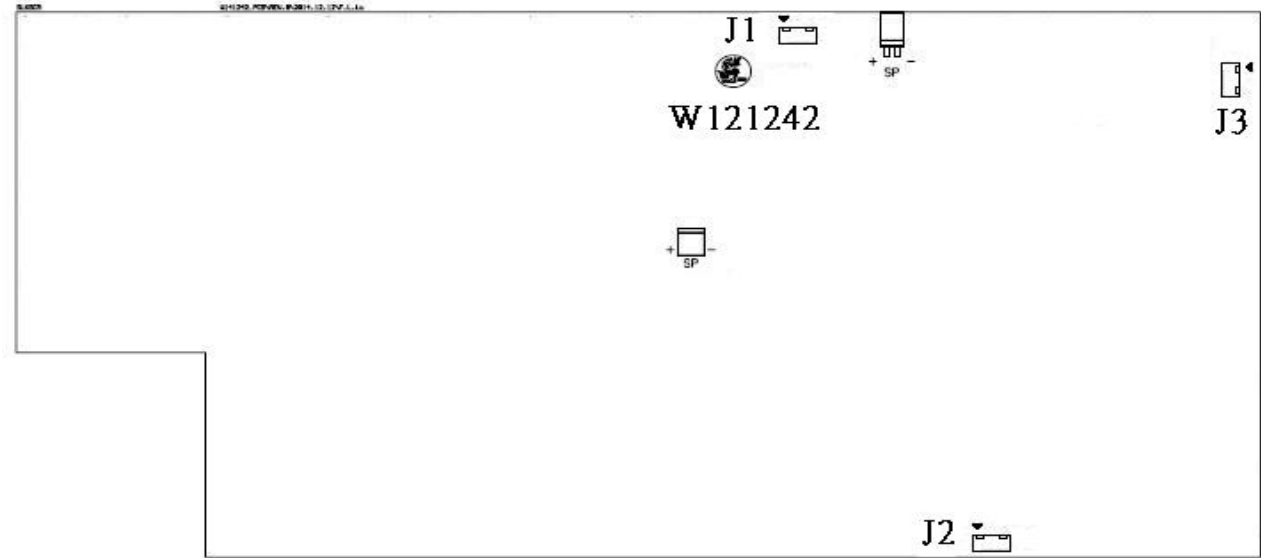


J1	color	PIN
1	Red	B
2	Brown	R
3	Black	G
4	Orange	GND

J2	color	PIN
1	Red	B
2	Brown	R
3	Black	G
4	Orange	GND

SECTION 5. W141242 WIRING DIAGRAM

CONNECTOR



J1	color	PIN
1	Red	B
2	Brown	R
3	Black	G
4	Orange	GND

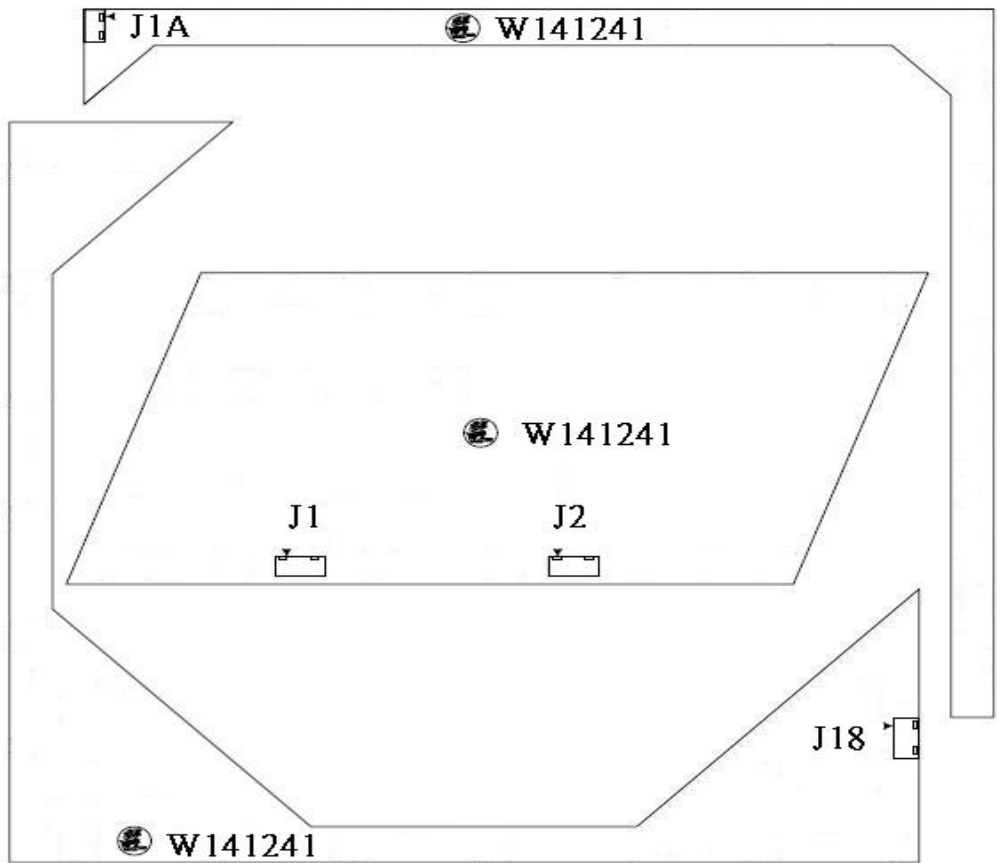
J2	color	PIN
1	Red	B
2	Brown	R
3	Black	G
4	Orange	GND

J3	color	PIN
1	Red	B
2	Brown	R
3	Black	G
4	Orange	GND

SP	color	PIN
1		SP +
2		SP -

SECTION 6. W141241 WIRING DIAGRAM

CONNECTOR



J1A	color	PIN
1	Red	B
2	Brown	R
3	Black	G
4	Orange	GND

J18	color	PIN
1	Red	B
2	Brown	R
3	Black	G
4	Orange	GND

J1	color	PIN
1	Red	B
2	Brown	R
3	Black	G
4	Orange	GND

J2	color	PIN
1	Red	B
2	Brown	R
3	Black	G
4	Orange	GND