

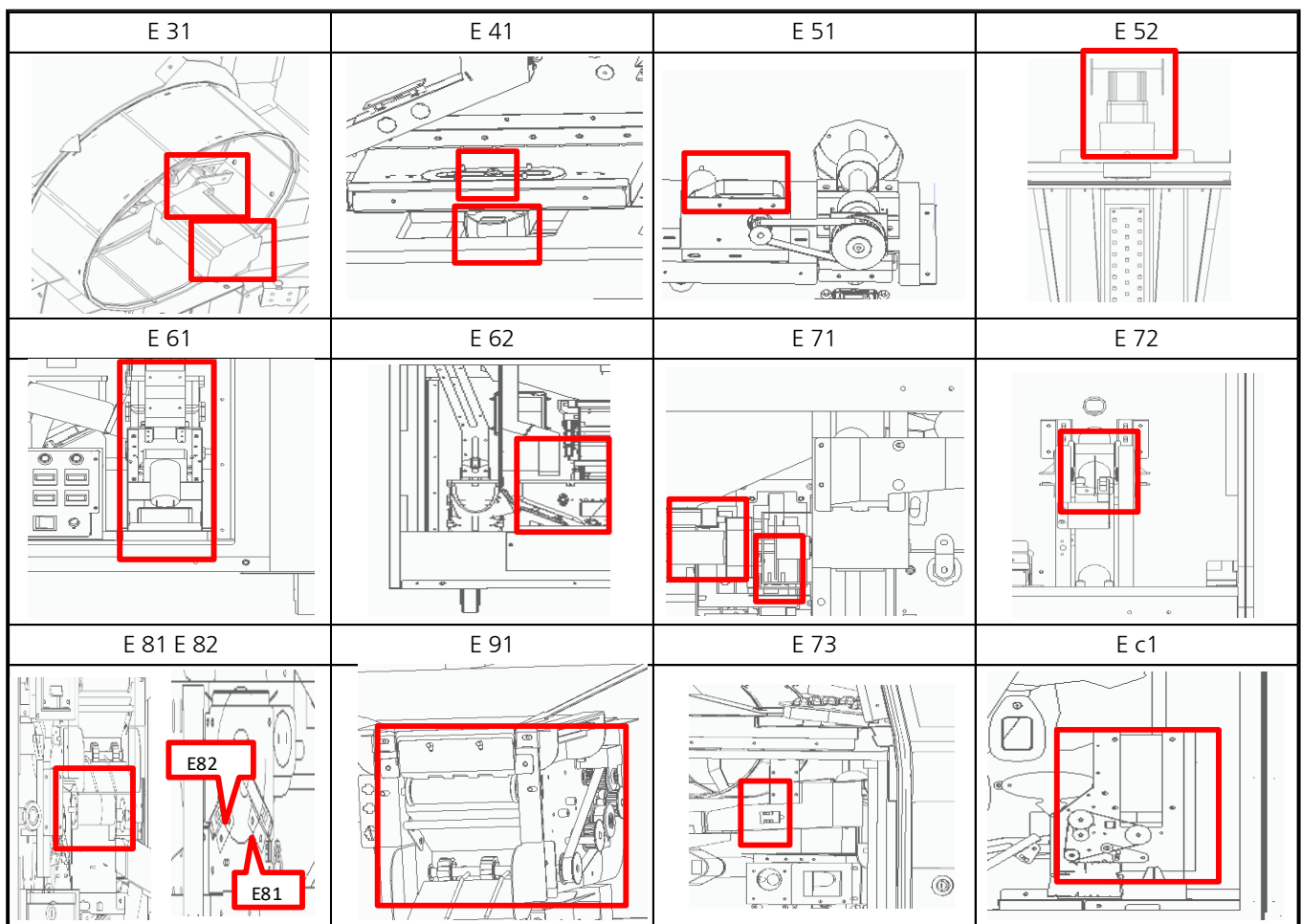
7 SOLUTION

1) ERROR CODES

PAGE : Solution Page N/O of Manual

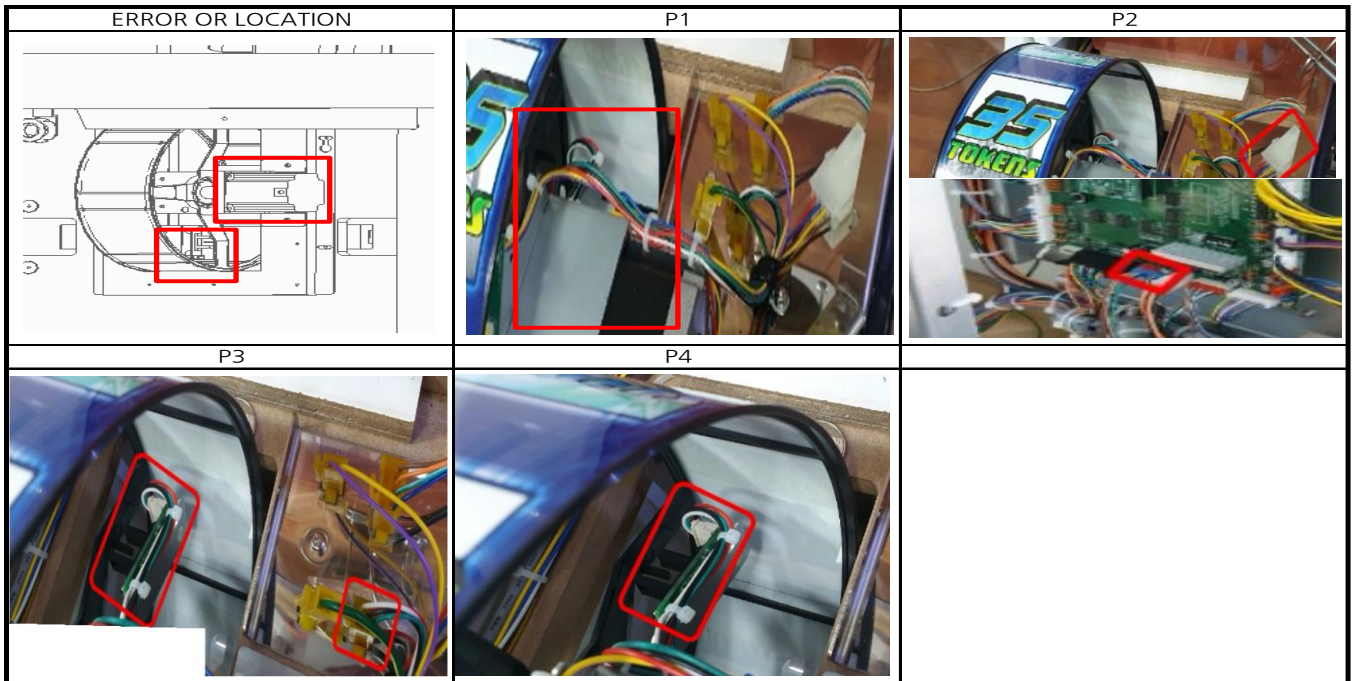
AVENGERS 1P

CODE	ERROR	NOTE	PAGE
E.01	BACKUP MEMORY	Save data problem. Power off on	
E.05	SETUP LCD ERROR	Setup lcd connection problem	
E.11	COIN ERROR	Coin jam problem	
E.31	REEL ERROR	Reel step motor defects	19
E.41	PUSHER ERROR	Pusher motor problem or pusher encoder problem	21
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E.c1	CARD DISPENSER	Card empty ,card jam,card dispensor	39
	TOKEN SUCCESS SENSOR	Token success sensor	41
E.t1	TICKET ERROR	No tickets or ticket jam	
TILT1	Upper backside	When shaking the machine but will be cleared after 15 seconds	
TILT2	1P Button panel		



2) TROUBLESHOOTING

1) REEL MOTOR ERROR [E.31], REEL SENSOR ERROR [E.31]



► SOLUTION : REEL MOTOR ERROR [E.31]

- 1 HOW TO TEST : TEST MODE → REEL TEST
- 2 Check connection of motor connector (P1)
- 3 Check assembly status of motor (P1)
- 4 Check connection of join connector and main pcb connector (P2)
- 5 Replace MOTOR
- 6 Replace MAIN PCB

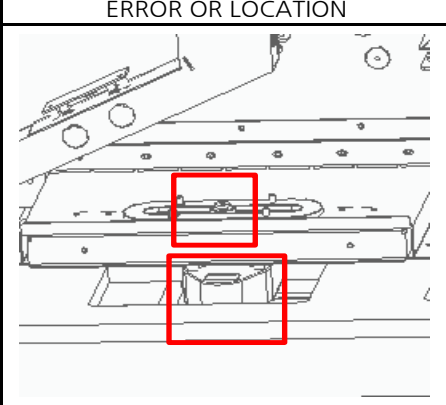

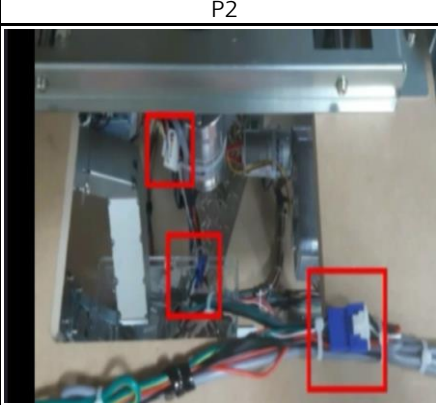


PART NAME	CODE	PART NAME	CODE
STEPPING MOTOR NO WIRE	MZZZ0MOT167	MAIN PCB ASS'Y	AAV10PCB001

► SOLUTION : REEL SENSOR ERROR [E.31]

- 1 HOW TO TEST : TEST MODE → REEL TEST
Setup pcb- Select button -Shooting button-Sensor status check
(Detected Sensor : " _ " / Non-Detected sensor : " 0 ")
- 2 Check connection of sensor connector (P3)
- 3 Check assembly status of sensor , Check position of sensor bracket (Center) (P4)
- 4 Check the dc voltage (SENSOR PCB)
: PIN 1 : over 4.5V , PIN 2 : below 0.5V , PIN 4 : GND ,
PIN 3 : Detected Sensor over 4.5V / Non-detected sensor below 0.5V
- 5 Replace SENSOR PCB
- 6 Check the dc voltage (MAIN PCB / CN18) : PIN 5 : Over 4.5V , PIN 6 : Below 0.5V , PIN 8 : GND
- 7 Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	ACIR0PCB011	MAIN PCB ASS'Y	AAV10PCB001

2) PUSHER MOTOR ERROR [E.41], PUSHER SENSOR ERROR [E.41]

ERROR OR LOCATION	P1	P2
		
P3	P4	
		

► SOLUTION : PUSHER MOTOR ERROR [E.41]

- 1 HOW TO TEST TEST MODE → PUSHER MOTOR TEST → SELECT BUTTON → SHOOTING button
- 2 Check if tokens, cards, balls, side token are jamming the pusher plate (P1)
- 3 Check connection of motor connector , Check assembly status of motor (P2,P3)
- 4 Check the dc voltage (MAIN PCB / CN19)
 - : PIN 1 : Over 11V , PIN 3 : Below 0.5V , PIN 6 : GND ,
 - PIN 2 : Operation state over 4.5V / Non-operation state below 0.5V
- 5 Replace MOTOR
- 6 Replace MAIN PCB

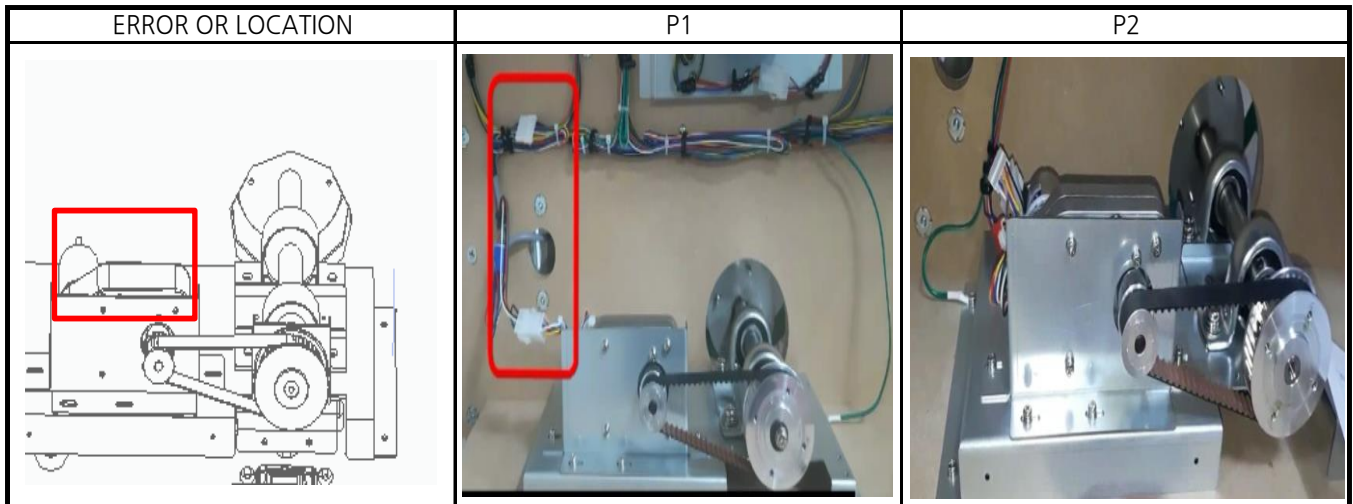
PART NAME	CODE	PART NAME	CODE
MOTOR_BLDC	MZZZ0MOT152	MAIN PCB ASS'Y	AAV10PCB001

► SOLUTION -PUSHER SENSOR ERROR [E.41]

- 1 HOW TO TEST TEST MODE → PUSHER MOTOR TEST → SELECT BUTTON → SHOOTING button
- Sensor operation status : Detected Sensor : " _ " / Non-Detected sensor : " 0 "
- 1 Check if tokens, cards, balls, side token are jamming the pusher plate (P1)
 - 2 Check connection of sensor connector , Check assembly status of sensor (P4)
 - 3 Check the dc voltage (SENSOR PCB)
 - : PIN 1 : over 4.5V , PIN 2 : below 0.5V , PIN 4 : GND ,
 - PIN 3 : Detected Sensor over 4.5V / Non-detected sensor below 0.5V
 - 4 Replace SENSOR PCB
 - 5 Check the dc voltage (MAIN PCB / CN19) : PIN 7 : Over 4.5V , PIN 8 : Below 0.5V , PIN 10 : GND
 - 6 Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103	MAIN PCB ASS'Y	AAV10PCB001

3) TARGET WHEEL MOTOR & SENSOR ERROR [E.51]



► SOLUTION

※ 1 HOW TO TEST MODE → WHEEL MOTOR TEST

SELECT button - SHOOTING button -Sensor operation status : First digit of the PLAY FND

Detected Sensor : " _ " / Non-Detected sensor : " 0 "

2 Check connection of motor connector (P1)

3 Check assembly status of belt and motor (P2)

4 Check the dc voltage (MAIN PCB / CN20)

: PIN 1 : Over 11V , PIN 3 : Below 0.5V , PIN 6 : GND ,

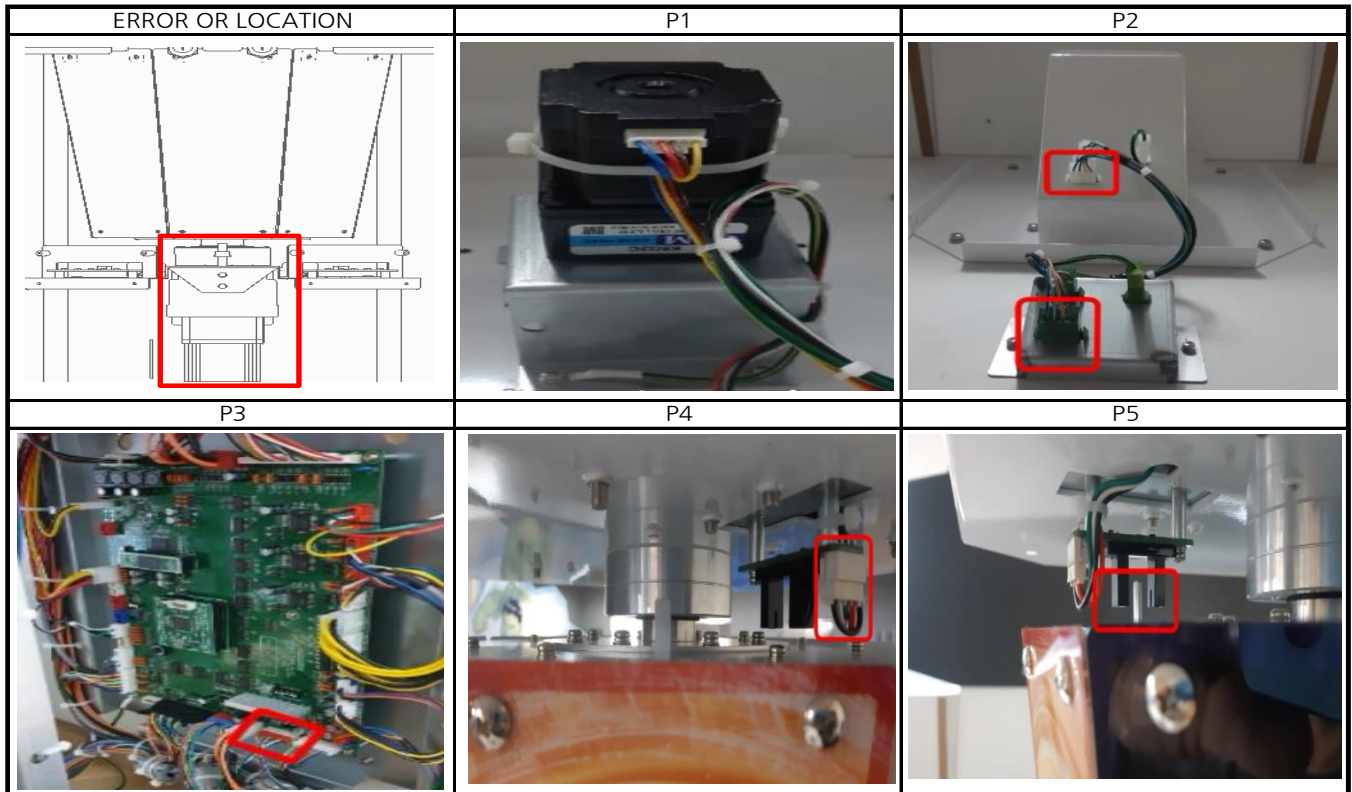
PIN 2 : Operation state over 4.5V / Non-operation state below 0.5V

5 Replace MOTOR (The sensor is in the motor,if the sensor is Not detected,replace the motor)

6 Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MOTOR_BLDC	MZZZ0MOT160	MAIN PCB ASS'Y	AAV10PCB001

4) BIG WHEEL MOTOR ERROR [E.52],BIG WHEEL SENSOR ERROR [E.52]



► SOLUTION : BIG WHEEL MOTOR ERROR [E.52]

- 1 HOW TO TEST : TEST MODE → BIG WHEEL TEST→ SELECT Button → SHOOTING button
- 2 Check connection of motor connector (p1)
- 3 Check assembly status of motor (P2)
- 4 Check connection of join connector and motor connector (CN17) (P2,P3)
- 5 Check DIP SWITCH setting status : 1,2,4,5,6 → OFF / 3 → ON
- 6 Replace MOTOR
- 7 Replace MAIN PCB

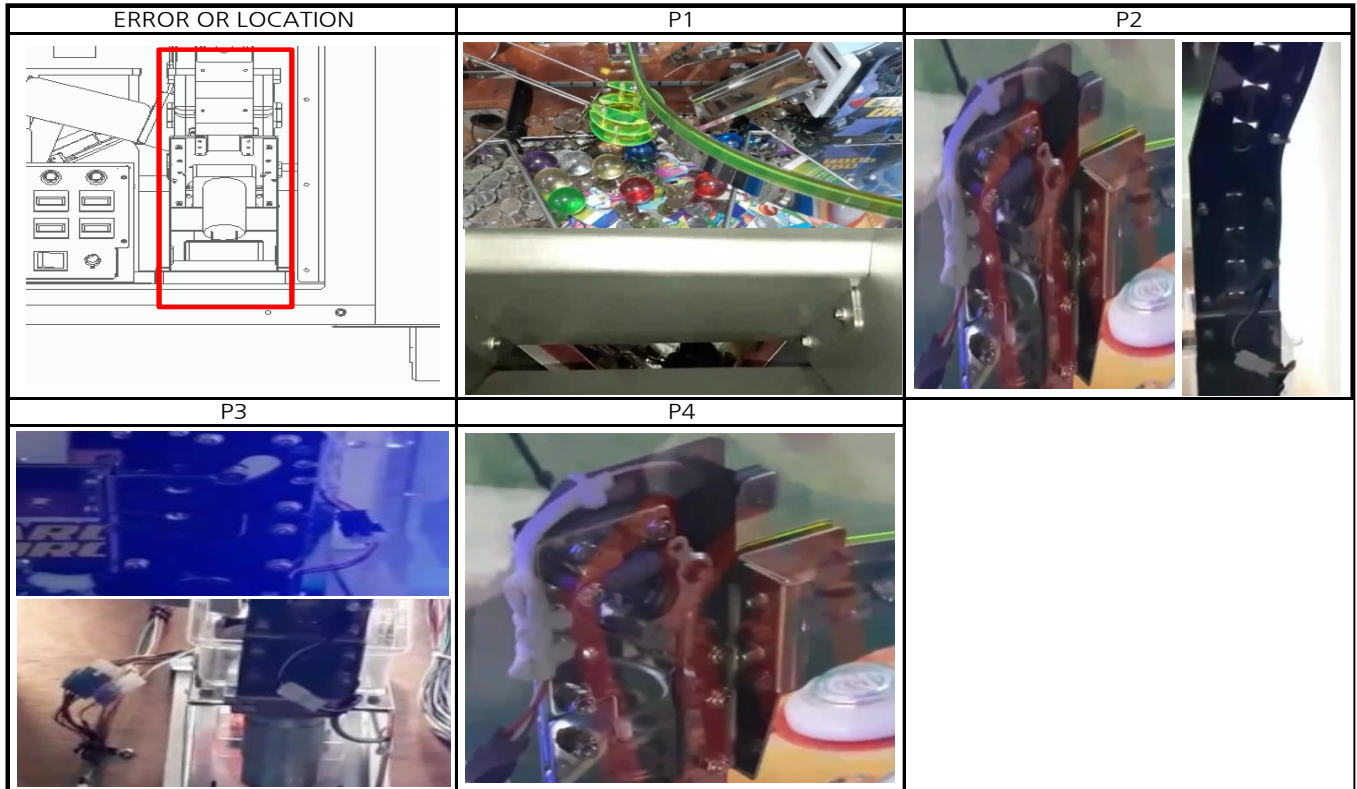
PART NAME	CODE	PART NAME	CODE
MOTOR_BLDC	MZZZ0MOT152	MAIN PCB ASS'Y	AAV10PCB001

► SOLUTION : BIG WHEEL SENSOR ERROR [E.52]

- ※ 1 HOW TO TEST MODE → BIG WHEEL TEST→ SELECT button →SHOOTING button
 Sensor operation status : Detected Sensor : flicker " _ " / Non-Detected sensor : " 0 "
- 2 Check connection of sensor connector (P4)
 - 3 Check assembly status of sensor , Check position of sensor bracket (Center) (P5)
 - 4 Check the dc voltage (SENSOR PCB)
 : PIN 1 : over 4.5V , PIN 2 : below 0.5V , PIN 4 : GND ,
 PIN 3 : Detected Sensor over 4.5V / Non-detected sensor below 0.5V
 - 5 Replace SENSOR PCB
 - 6 Check the dc voltage (MAIN PCB / CN17) : PIN 5 : Over 4.5V , PIN 6 : Below 0.5V , PIN 8 : GND
 - 7 Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	ACIR0PCB011	MAIN PCB ASS'Y	AAV10PCB001

5) FRONT HOPPER MOTOR ERROR [E.61], FRONT HOPPER SENSOR ERROR [E.61]



▶ SOLUTION : FRONT HOPPER MOTOR ERROR [E.61]

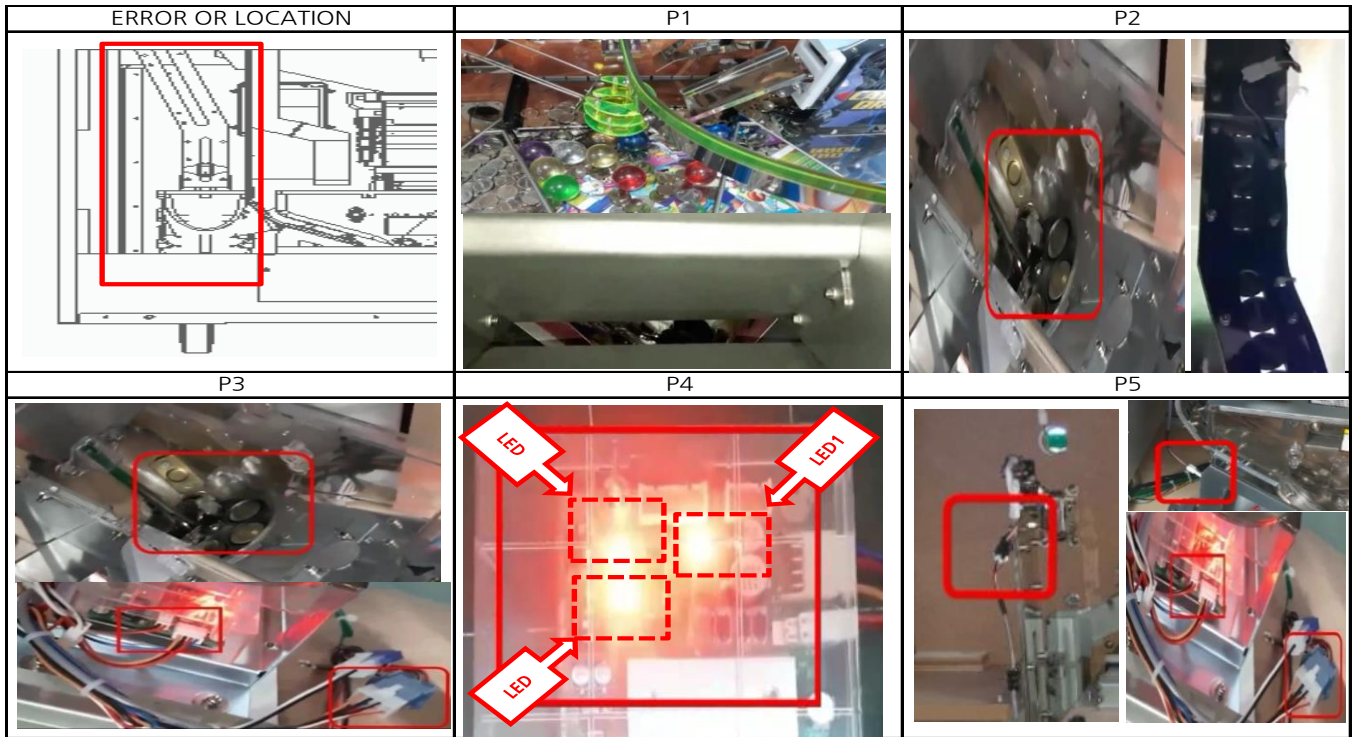
- ※ 1 HOW TO TEST : TEST MODE → FRONT HOPPER TEST → SELECT button → SHOOTING button
- 2 Check the jamming location Token Bridge, Pusher Plate and Conveyor (P1)
- 3 Foreign objects inside the HOPPER, Check jamming hopper disk, Check jamming hopper rail (P2)
- 4 Check the disk rotation direction, Check connection of motor connector (P3)
- 5 Check the operation of HOPPER PCB internal LED1 (lights up during operation), LED2 (flashes when 5V input), LED3 (flashes when 24V is input) (P4)
- 6 Check the dc voltage (HOPPER PCB / JP2) : PIN 1 : Over 23V , PIN 2 : GND
- 7 Replace HOPPER PCB
- 8 Check the dc voltage (MAIN PCB / CN10): A-PIN 1 : Over 23V , A-PIN 6 : Over 4.5V , A-PIN 10 : GND
- 9 Replace MAIN PCB

▶ SOLUTION : FRONT HOPPER SENSOR ERROR [E.61]

- 1 HOW TO TEST : TEST MODE → FRONT HOPPER TEST → SELECT button → SHOOTING button
- ※ CHECK LIST
- 1 Check the jamming location Token Bridge, Pusher Plate and Conveyor (P1)
- 2 Check the jamming launch part exit (P2)
- 3 Check the jamming hopper rail (P2)
- 4 Check connection of sensor connector (P3)
- 5 Check the foreign substances in the sensor part and the assembly status of the launch part (P4)
- 6 Check the dc voltage (SENSOR ASS'Y)
 - : PIN 1 : over 4.5V , PIN 3 : below 0.5V , PIN 4 : GND ,
 - PIN 2 : Detected Sensor over 4.5V / Non-detected sensor below 0.5V
- 7 Replace SENSOR PCB
- 8 Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
ELEVATOR SENSOR ASS'Y	AZZZ0PCB173	MAIN PCB ASS'Y	AAV10PCB001

6) REAR HOPPER MOTOR ERROR [E.62]



► SOLUTION : REAR HOPPER MOTOR ERROR [E.62]

- 1 HOW TO TEST TEST MODE → REAR HOPPER TEST→ SELECT button→SHOOTING button
- 2 Check the jamming location Token Bridge, Pusher Plate and Conveyor (P1)
- 3 Foreign objects inside the HOPPER,Check jamming hopper disk,Check jamming hopper rail (P 2)
- 4 Check the disk rotation direction, Check connection of motor connector (P)
- 5 Check the operation of HOPPER PCB internal LED1 (lights up during operation), LED2 (flashes when 5V input), LED3 (flashes when 24V is input) (P4)
- 5 Check the dc voltage (HOPPER PCB / JP2) : PIN 1 : Over 23V , PIN 2 : GND
- 6 Replace HOPPER PCB
- 7 Check the dc voltage (MAIN PCB / CN10) : B-PIN 1 : Over 23V , B-PIN 6 : Over 4.5V , B-PIN 10 : GND
- 8 Replace MAIN PCB

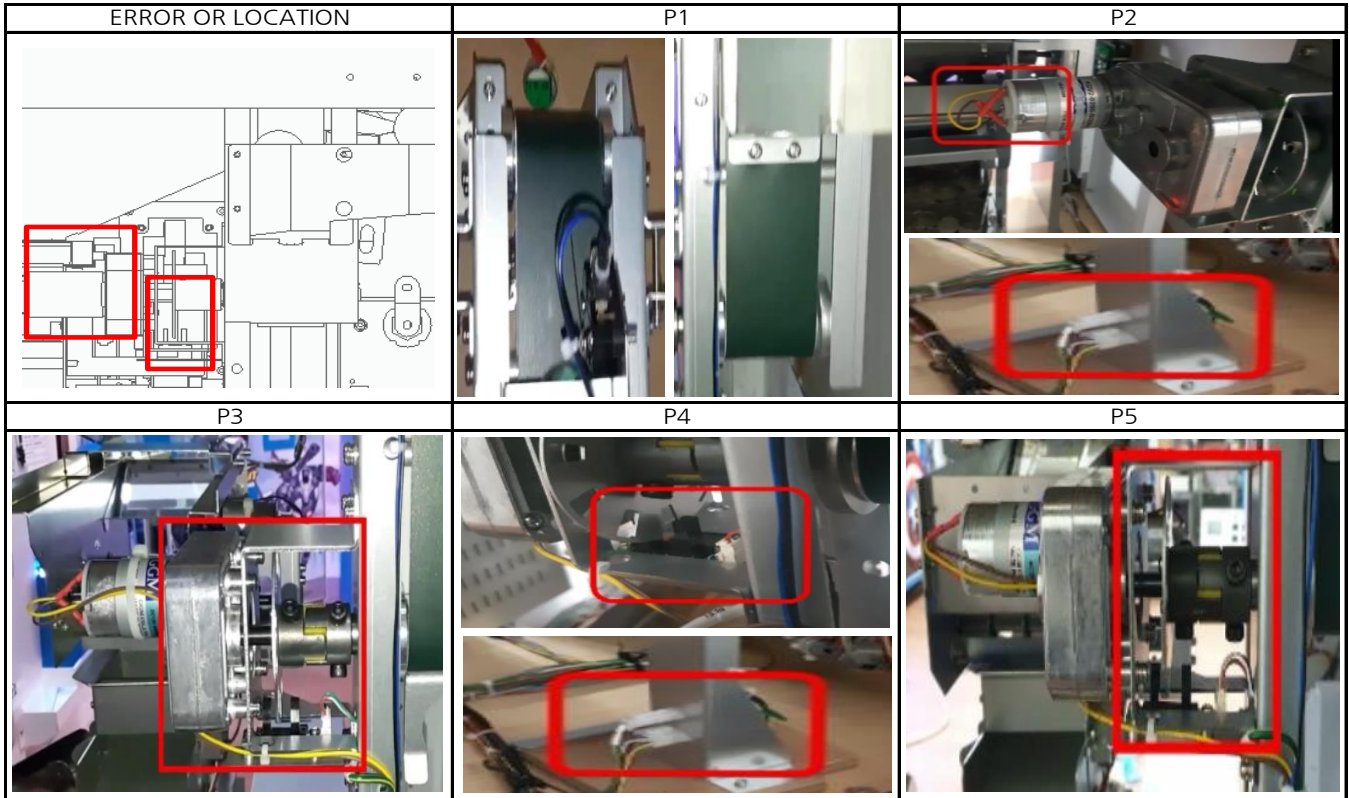
PART NAME	CODE	PART NAME	CODE
ELEVATOR HOPPER PCB ASS'Y	AZZZ0PCB143	MAIN PCB ASS'Y	AAV10PCB001

► SOLUTION : REAR HOPPER SENSOR ERROR [E.62]

- 1 HOW TO TEST TEST MODE → REAR HOPPER TEST→ SELECT button→SHOOTING button
PLAY FND 3rd digit confirms quantity change (reduced sequentially when sensor is detected)
- 2 Check the jamming location Token Bridge, Pusher Plate and Conveyor (P1)
- 3 Check the jamming launch part exit (P 2) Check the jamming hopper rail (P 2)
- 4 Check connection of sensor connector (P5)
- 5 Check the foreign substances in the sensor part and the assembly status of the launch part (P4)
- 6 Check the dc voltage (SENSOR ASS'Y) : PIN 1 : over 4.5V , PIN 3 : below 0.5V , PIN 4 : GND ,
PIN 2 : Detected Sensor over 4.5V / Non-detected sensor below 0.5V
- 7 Replace SENSOR PCB
- 8 Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
ELEVATOR SENSOR ASS'Y	AZZZ0PCB173	MAIN PCB ASS'Y	AAV10PCB001

7) BALL SUPPLY MOTOR ERROR [E.71], BALL SUPPLY SENSOR ERROR [E.71]



► SOLUTION : BALL SUPPLY MOTOR ERROR [E.71]

- 1 HOW TO TEST : TEST MODE → BALL SUPPLY TEST → SELECT button → SHOOTING button
- 2 Check the jamming ball supply rail , Check for BKT jams during belt drive (P1)
- 3 Check connection of motor connector (P2)
- 4 Check assembly status of motor (P3)
- 5 Check the dc voltage (MAIN PCB / CN16) : PIN 1 : Over 11V , PIN 2 : GND
- 6 Replace MOTOR
- 7 Replace MAIN PCB

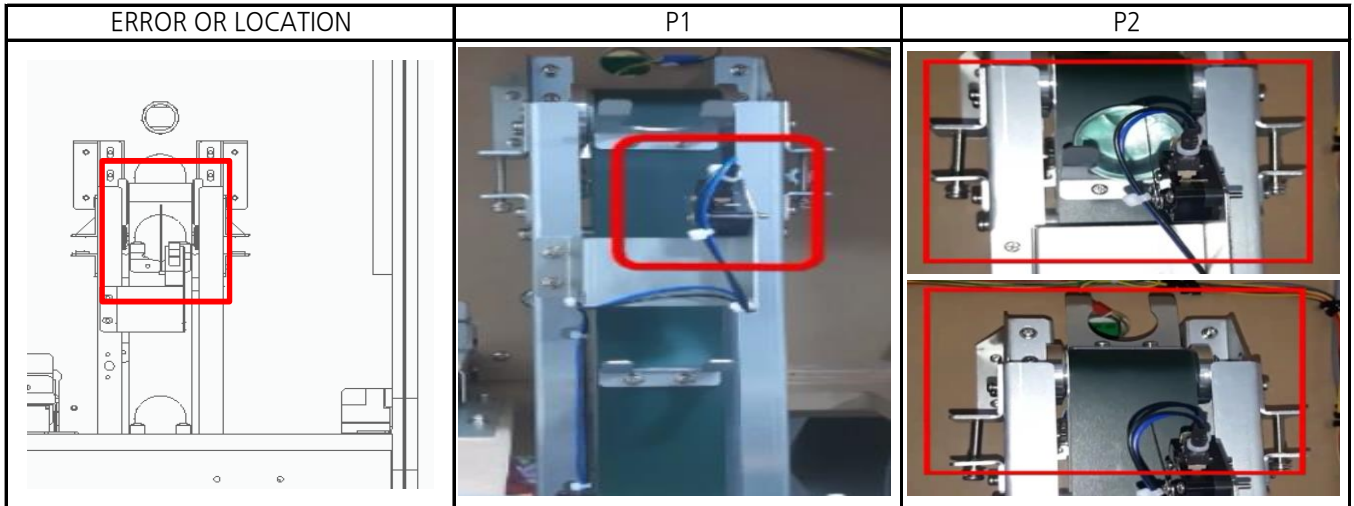
PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT161	MAIN PCB ASS'Y	AAV10PCB001

► SOLUTION : BALL SUPPLY SENSOR ERROR [E.71]

- 1 HOW TO TEST : TEST MODE → BALL SUPPLY TEST → SELECT button → SHOOTING button
: Third digit of the PLAY FND - Detected Sensor : flicker " _ " / Non-Detected sensor : " 0 "
- 2 Check connection of sensor connector (P4)
- 3 Check assembly status of sensor , Check position of sensor bracket (Center) (P5)
- 4 Check the dc voltage (SENSOR PCB) : PIN 1 : over 4.5V , PIN 2 : below 0.5V , PIN 4 : GND ,
PIN 3 : Detected Sensor over 4.5V / Non-detected sensor below 0.4V
- 5 Replace SENSOR PCB
- 6 Check the dc voltage (MAIN PCB / CN16) : PIN 3 : Over 4.5V , PIN 4 : Below 0.5V , PIN 6 : GND
- 7 Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	ACIR0PCB011	MAIN PCB ASS'Y	AAV10PCB001

8) BALL SUPPLY SWITCH ERROR [E.72]

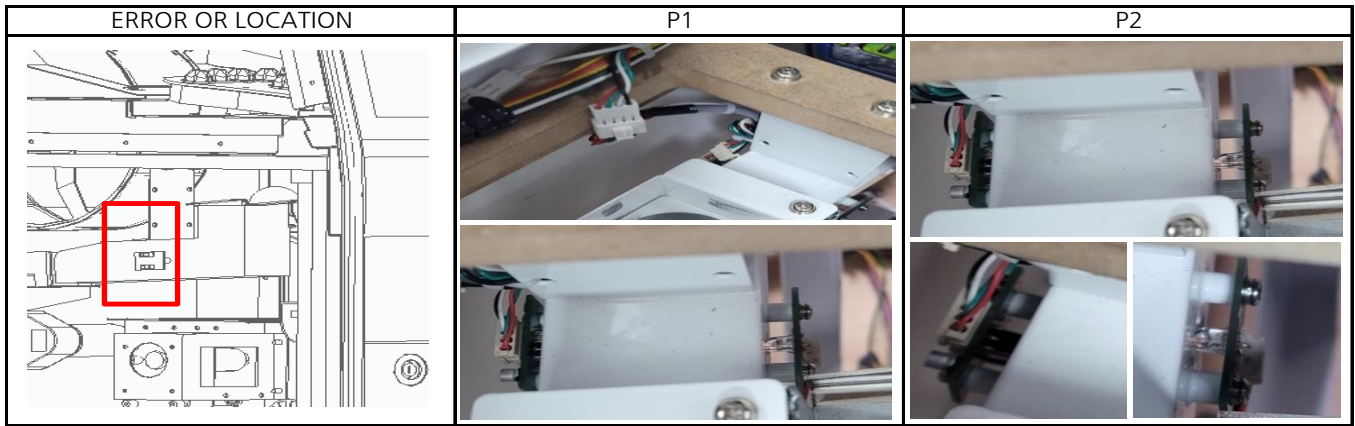


► SOLUTION

- 1 HOW TO TEST :TEST MODE → BALL SUPPLY TEST →SELECT button→ SHOOTING button
:Sensor operation status : Detected Sensor : " 0 " / Non-Detected sensor : " _ "
- 2 Check connection of switch connector and pin connector (P1), SWITCH external status check (P1)
- 3 When SWITCH is recognized, it checks whether it was pressed normally, and returns to its original state if not recognized. (P 2)
- 4 Check the dc voltage (SWITCH)
: NO PIN : over 4.5V (ball is not mounting) / Below 0.5V (ball is mounting) , COM PIN : GND
- 5 Replace SWITCH PCB
- 6 Check the dc voltage (MAIN PCB / CN16)
: PIN 7 : over 4.5V (ball is not mounting) / Below 0.5V (ball is mounting) , PIN 8 : GND
- 7 Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MICRO SWITCH	MELEOMIC002	MAIN PCB ASS'Y	AAV10PCB001

9) BALL IN SENSOR ERROR [E.73]



► SOLUTION

1 HOW TO TEST :TEST MODE → BALL IN TEST

Insert the ball into the inlet and check the sensor operation status at the 4th digit of TICKET FND
(Increases sequentially according to the number of inputs)

Detected sensor : increase in number , non-detected sensor : No change in number

2 Check connection of sensor connector (CHECK 1)

3 Check assembly status of sensor (CHECK 2)

4 Check the dc voltage (SENSOR PCB) : PIN 1 : over 4.5V , PIN 2 : below 0.5V , PIN 4 : GND ,
PIN 3 : Detected Sensor over 4.5V / Non-detected sensor below 0.5V

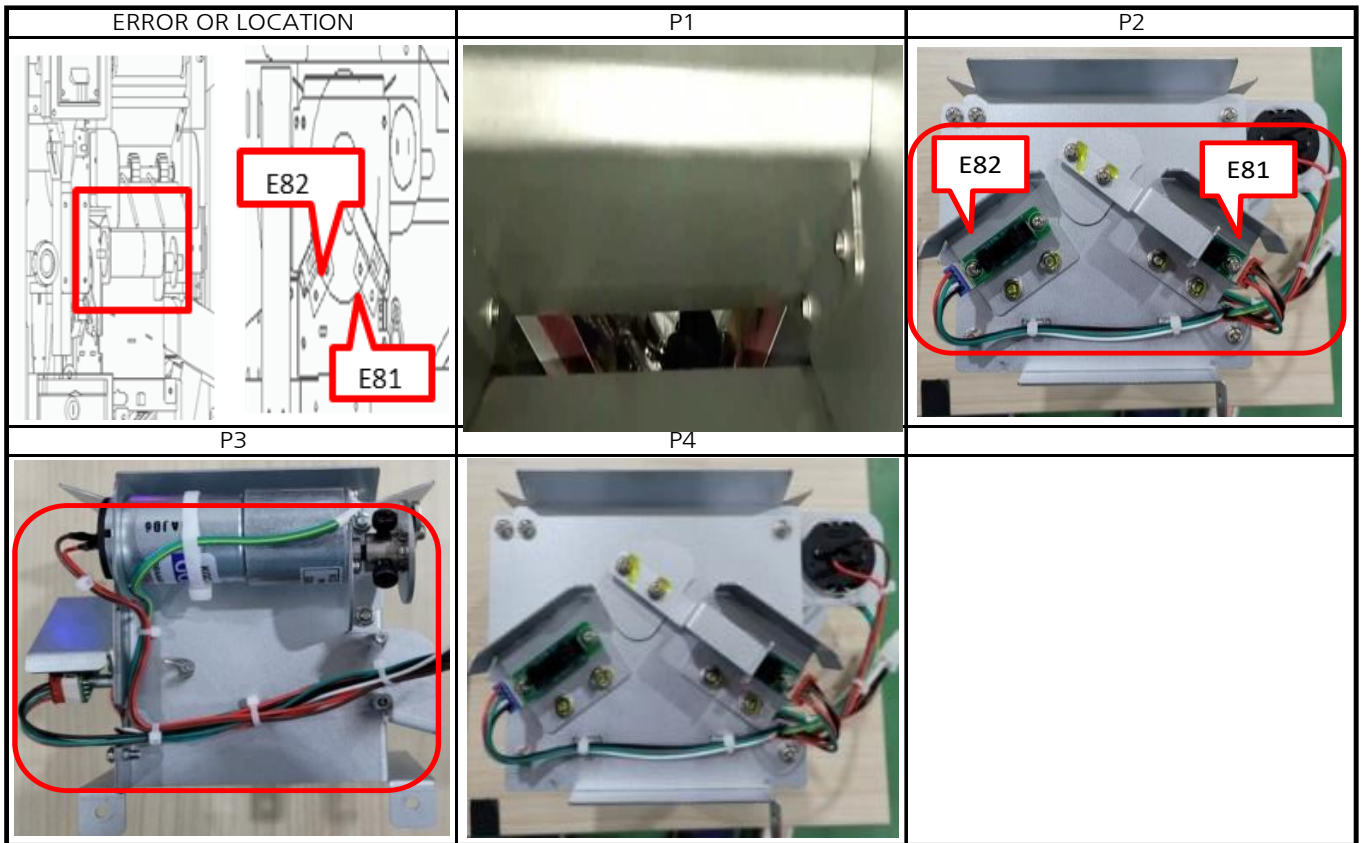
5 Replace SENSOR PCB

6 Check the dc voltage (MAIN PCB / CN16) : PIN 9 : over 4.5V , PIN 10 : Below 0.5V , PIN 12 : GND

7 Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
SENSOR_R PCB ASS'Y	MEIF0PAR014	SENSOR_T PCB ASS'Y	AAV20PCB011
MAIN PCB ASS'Y	AAV10PCB002		

10) TOKEN BRIDGE MOTOR ERROR [E.81 & 82]



► SOLUTION : TOKEN BRIDGE MOTOR ERROR [E.81 & 82]

- 1 HOW TO TEST TEST MODE → TOKEN BRIDGE TEST → SELECT button → SHOOTING button
- 2 Check internal JAM by foreign material, card, token (P1)
- 3 Check MOTOR connector connection status (P2)
- 4 Check assembly status (P3)
- 5 voltage check (MAIN PCB / CN16) : PIN 1 : 11V , PIN 2 : GND
- 6 MOTOR replacement 7 MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT173	MAIN PCB ASS'Y	AAV10PCB001

► SOLUTION : TOKEN BRIDGE FRONT SENSOR ERROR [E.81]

- 1 HOW TO TEST : TEST MODE → TOKEN BRIDGE TEST
sensor status check-Detected Sensor : " _ " / Non-Detected sensor : " 0 "
- 2 Check internal JAM by foreign material, card, token (P1)
- 3 SENSOR PCB wiring connection and connector connection status check (P2)
- 4 Check the sensor assembly status (P4)
- 5 voltage check (SENSOR PCB) : PIN 1 : 4.5V, PIN 2 : 0.5V, PIN 4 : GND ,
PIN 3 : 4.5V or more when detected / Less than 0.5V when not detected
- 5 SENSOR PCB replacement 6 voltage check (MAIN PCB / CN15)
: PIN 3: 4.5V or higher, PIN 4: less than 0.5V, PIN 7: GND
- 7 MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	ACIROP011	MAIN PCB ASS'Y	AAV10PCB001

► SOLUTION : TOKEN BRIDGE REAR SENSOR ERROR [E.82]

1 HOW TO TEST : TEST MODE → TOKEN BRIDGE TEST

PLAY FND First digit sensor operation status check-Detected Sensor : " _ " / Non-Detected sensor : " 0 "

2 Check internal JAM by foreign material, card, token (P1)

3 SENSOR PCB wiring connection and connector connection status check (P2)

4 Check the sensor assembly status (P3)

5 voltage check (SENSOR PCB) : PIN 1: more than 4.5V, PIN 2: less than 0.5V, PIN 4: GND ,
PIN 3: more than 4.5V when detected / less than 0.5V when not detected

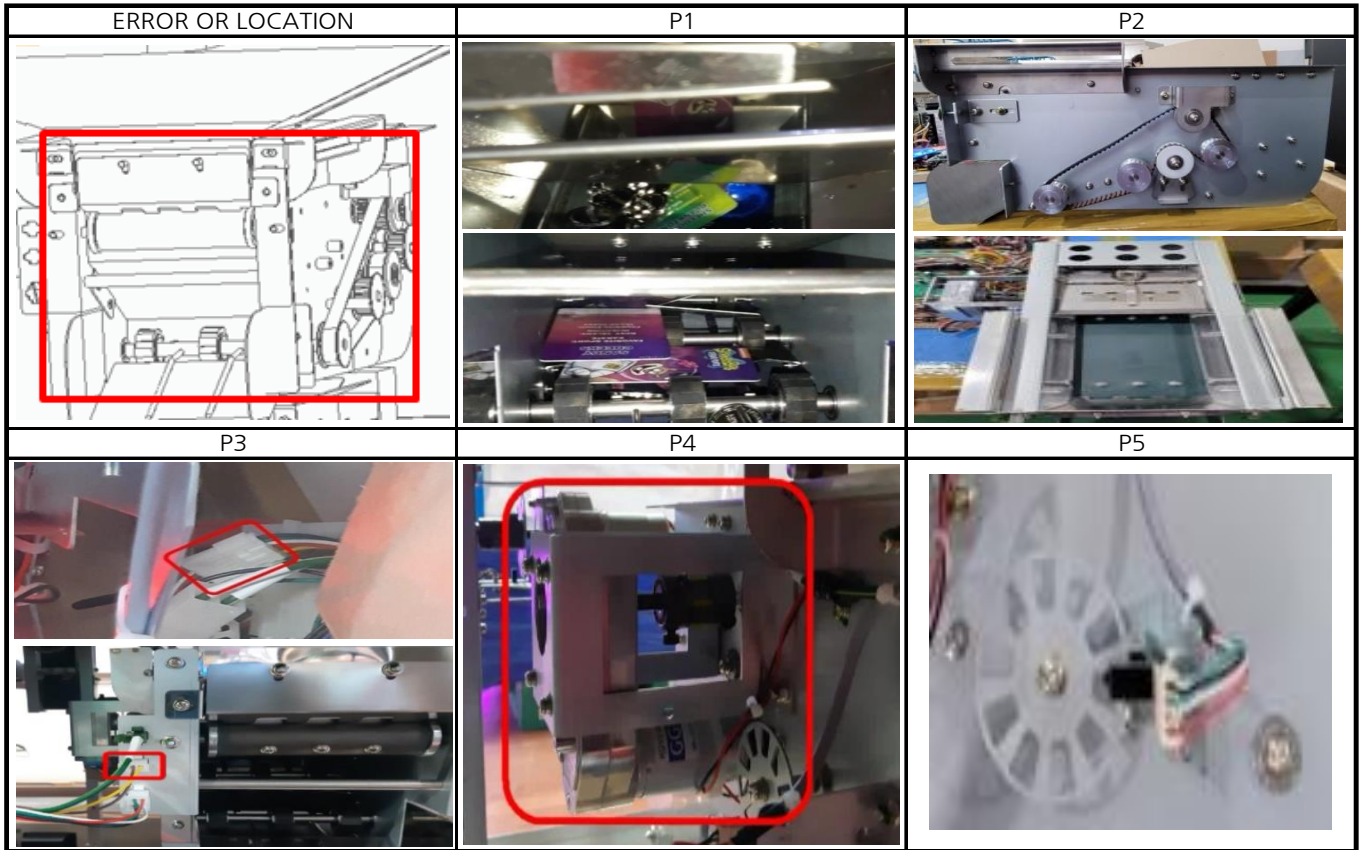
4 SENSOR PCB replacement

5 voltage check (MAIN PCB / CN15) : PIN 3: 4.5V or higher, PIN 4: less than 0.5V, PIN 7: GND

6 MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	ACIR0PCB011	MAIN PCB ASS'Y	AAV10PCB001

11) CONVEYER MOTOR ERROR [E.91],CONVEYER SENSOR ERROR [E.91]



► SOLUTION : CONVEYER MOTOR ERROR [E.91]

- 1 HOW TO TEST TEST MODE → CONVEYER TEST → SELECT button → SHOOTING button
- 2 Check internal JAM by TOKEN , CARD , BALL (P 1)
- 3 TIMING BELT , MAIN BELT Check for abnormalities (P 2)
- 4 Check MOTOR connector connection status (P 3)
- 5 Check the assembly status of the equipment and check whether the parts are deformed (P 4)
- 6 voltage check (MAIN PCB / CN5) : PIN 1: 11V or higher, PIN 2: GND
- 7 MOTOR replacement
- 8 MAIN PCB replacement

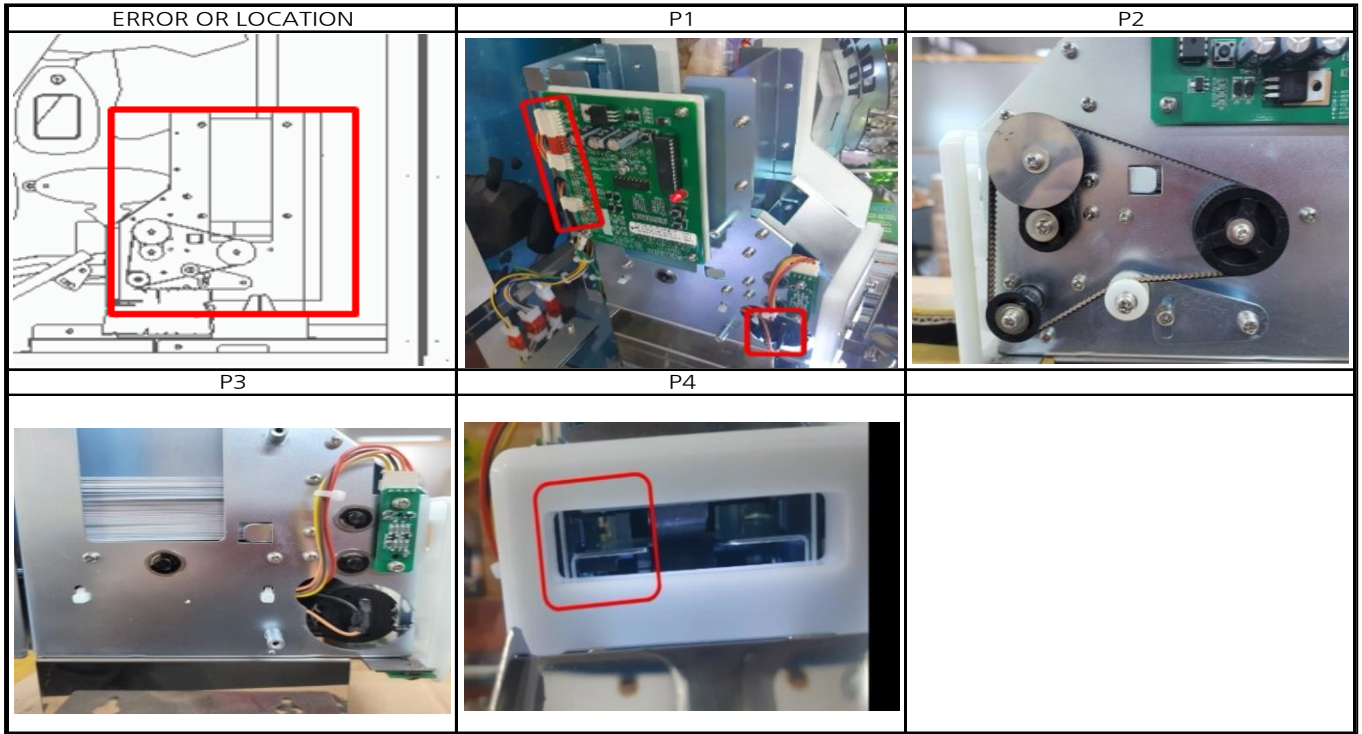
PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT168	MAIN PCB ASS'Y	AAV10PCB001

► SOLUTION : CONVEYER SENSOR ERROR [E.91]

- 1 HOW TO TEST TEST MODE → CONVEYER TEST
- 2 Check the sensor status in the first digit of PLAY FND:When detected: " _ " / When not detected: " 0 "
- 3 Check internal JAM by TOKEN , CARD , BALL (P 1)
- 4 SENSOR PCB wiring connection and connector connection status check (P 3)
- 5 Check the sensor assembly status, check the sensor check bracket position (center) (P 5)
- 6 voltage check (SENSOR PCB) : PIN 1: more than 4.5V, PIN 2: less than 0.5V, PIN 4: GND ,
PIN 3: more than 4.5V when detected / less than 0.5V when not detected
- 7 SENSOR PCB replacement
- 8 voltage check (MAIN PCB / CN5) : PIN 3 : above 4.5V, PIN 4 : below 0.5V, PIN 6 : GND
- 9 MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103	MAIN PCB ASS'Y	AAV10PCB001

12) CARD DISPENSER MOTOR ERROR [E.c1],CARD DISPENSER SENSOR ERROR [E.c1]



► SOLUTION : CARD DISPENSER MOTOR ERROR [E.c1]

- 1 HOW TO TEST TEST MODE → CARD DISPEN TEST → SELECT button →SHOOTING button
- 2 Check MOTOR connector connection status (P1)
- 3 Check assembly status (P2)
- 4 Check operation status (P 2)
- 5 voltage check (CARD DISPENSER PCB / CN7) : PIN 5 : 11V 이상 , PIN 2 : GND
- 6 voltage check (CARD DISPENSER PCB / CN1) : PIN 1 : GND , PIN 3 : 11V 이상
- 7 MOTOR replacement
- 8 voltage check (MAIN PCB / CN21) : PIN 1/2 : 11V or higher, PIN 5/6 : GND
- 9 MAIN PCB replacement

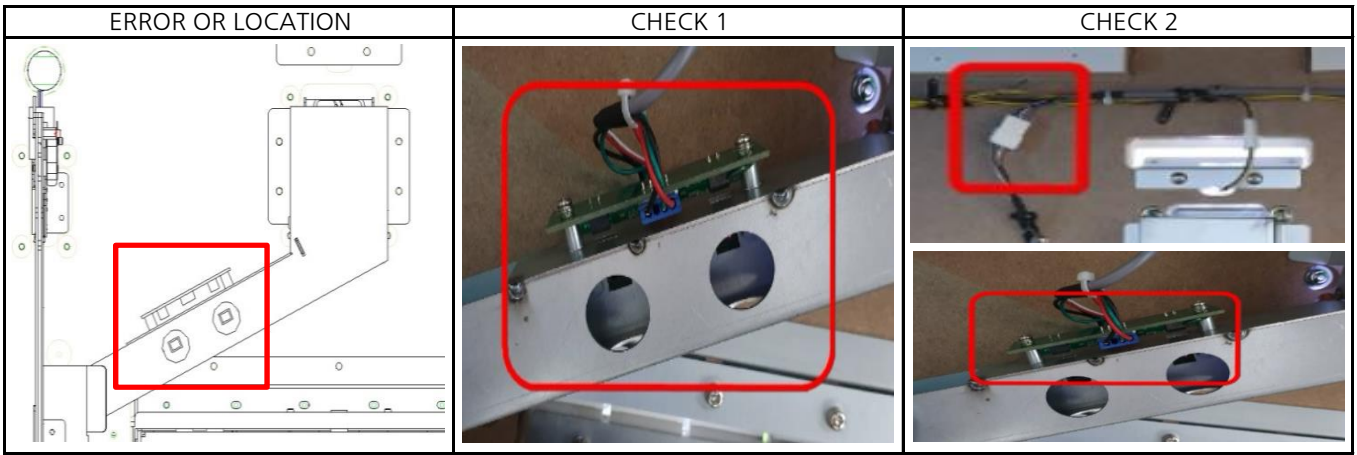
PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT089	MAIN PCB ASS'Y	AAV10PCB001

► SOLUTION : CARD DISPENSER SENSOR ERROR [E.c1]

- 1 HOW TO TEST TEST MODE → CARD DISPEN TEST → SELECT button →SHOOTING button
When detected: " _ " / When not detected: " 0 "
- 2 SENSOR PCB wiring connection and connector connection status check (P1)
- 3 Check the sensor assembly status and check the sensor bracket hole and sensor position(P3,P4)
- 4 voltage check (SENSOR PCB) : PIN 3: 4.5V or more, PIN 4: less than 0.5V, PIN 2: GND ,
PIN 1: 4.5V or more when detected / less than 0.5V when not detected
- 5 SENSOR REPLACEMENT
- 6 voltage check(CARD DISPENSER PCB/CN5): PIN 1: more than 4.5V, PIN 2: less than 0.5V, PIN 3: GND
- 7 CARD DISPENSER PCB replacement
- 8 voltage check (MAIN PCB / CN21) : PIN 1/2 : 11V or higher, PIN 5/6 : GND
- 9 MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103	MAIN PCB ASS'Y	AAV10PCB001

13) TOKEN SUCCESS SENSOR ERROR



► SOLUTION

※ 1 HOW TO TEST TEST MODE → INPUT TEST

Check the sensor operation status - detected: " _ " / When not detected: " 0 "

- 2 Check if sunlight penetrates into the sensor area (CHECK 1)
- 3 SENSOR PCB wiring connection and connector connection status check (CHECK 2)
- 4 Check the sensor assembly status, check the presence of foreign substances inside (CHECK 1)
- 5 voltage check (SENSOR PCB) : PIN 1: 4.5V or more, PIN 4: GND ,
PIN 2: less than 0.5V when detected / more than 4.5V when not detected
- 6 SENSOR PCB replacement
- 7 voltage check (MAIN PCB / CN5) : PIN 1: above 4.5V, PIN 8: GND
- 8 MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
CHUTE SENSOR PCB ASS'Y	ASAW0PCB001	MAIN PCB ASS'Y	AAV10PCB001