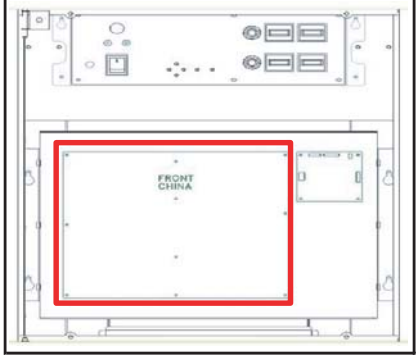
11. TROUBLE SHOOTING

11-1. BACKUP MEMORY ERROR (Er01)

ERROR or LOCATION



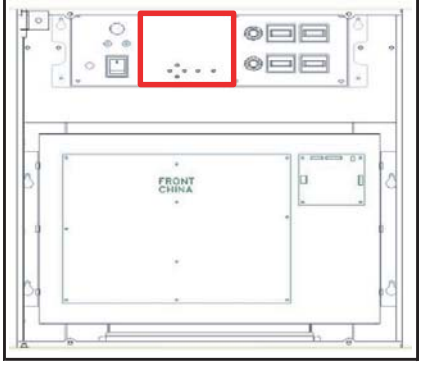
▶SOLUTION

1. CHECK :
   1) Recheck after power off/on
   2) Recheck after factory set
   3) MAIN PCB replacement

PART NAME	CODE
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-2. SETUP LCD ERROR (Er05)

ERROR or LOCATION



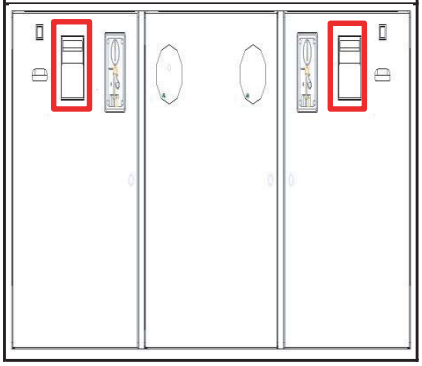
▶SOLUTION

1. CHECK :
   1) Check the cable connection status
   3) SETUP LCD replacement
   4) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
SETUP LCD PCB ASS'Y	AZZZ0PCB113	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-3. BILL ACCEPTOR ERROR (Er10)

ERROR or LOCATION



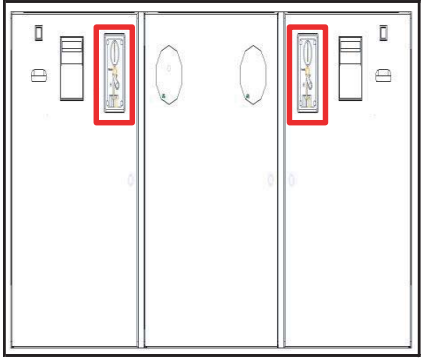
▶SOLUTION

1. TEST MODE → BILL TEST
2. CHECK :
   1) Check whether BILL JAM
   2) Check the cable connection status
   3) REPLACE BILL ACCEPTOR
   4) MAIN PCB replacement

PART NAME	CODE
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-4. COIN MACHINE ERROR (Er11)

ERROR or LOCATION

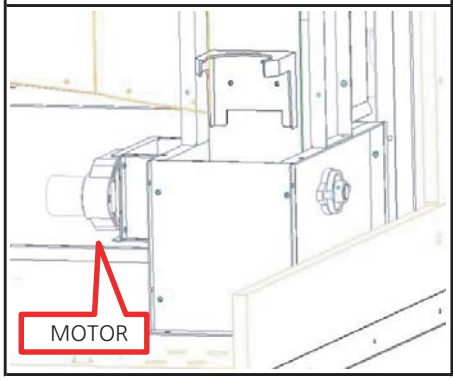
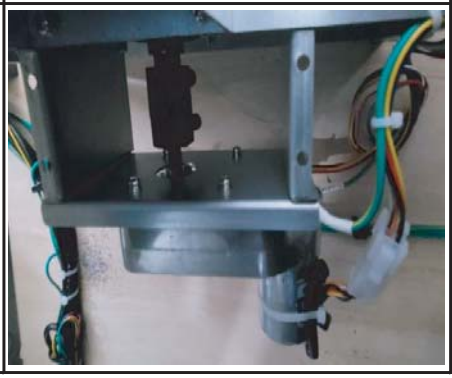
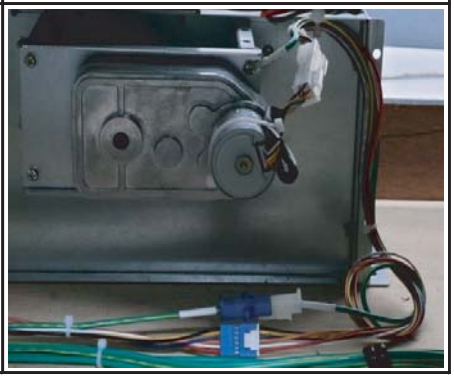


▶SOLUTION

1.TEST MODE → COIN TEST
2. CHECK :
   1) Check whether COIN JAM
   2) Check the cable connection status
   3) COIN MACHINE replacement
   4) MAIN PCB replacement

PART NAME	CODE	PART NAME	CODE
COIN SELECTOR	MZZZ0COS052	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-5. BALL ELEVATOR MOTOR ERROR (Er20)

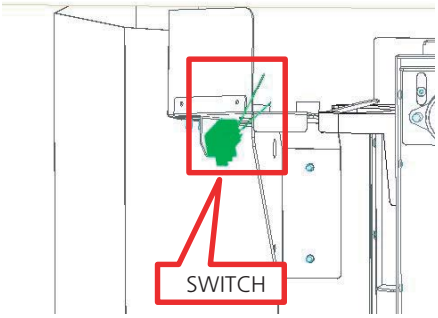
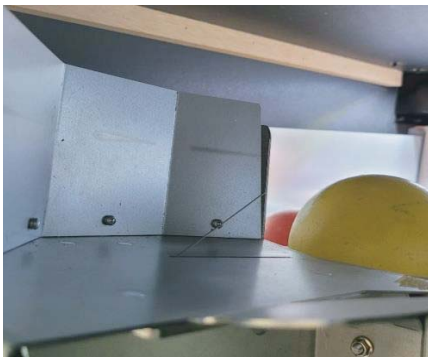
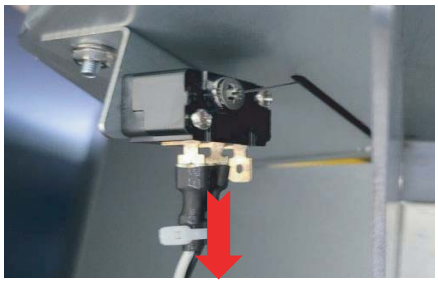
ERROR or LOCATION	P1	P2
		

▶SOLUTION

1. TEST MODE → BALL MECH. TEST
   ▶ SUPER BONUS FND : On the first BLDC encoder status display
2. CHECK :
   1) Check the assembly status of pully and other motor machine parts (P1)
   2) Check the cable connection (P2)
   3) Machine parts deformation (P1)
   4) Replace MOTOR
   6) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT175	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-6. BALL ELEVATOR UP SWITCH ERROR (Er21)

ERROR or LOCATION	P1	P2
		

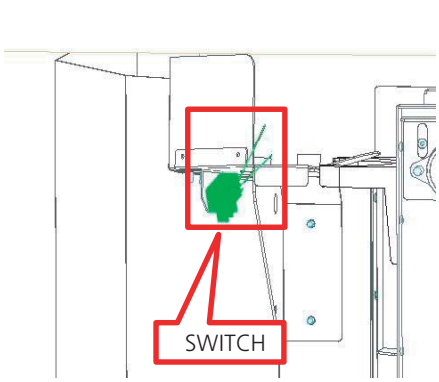
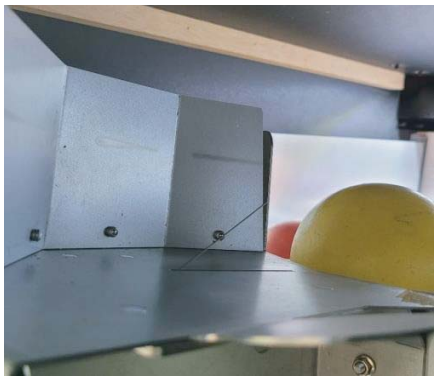
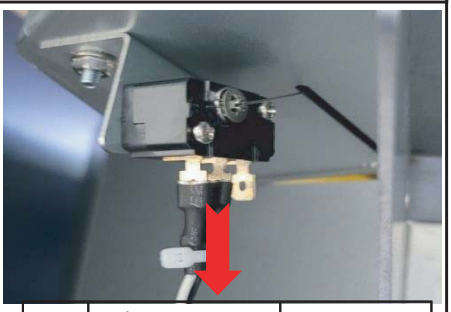
1	Below 0.1V	ON
2	Over 4.5V	OFF

▶SOLUTION

1. TEST MODE → INPUT TEST
   ▶ SETUP LCD Display status at the 3rd digit of the second line of the window
2. CHECK :
   1) Make sure the ball is holding the switch (P1)
   2) Check the cable connection (P2)
   3) machine parts deformation
   4) Check SWITCH voltage (P2)
   5) Replace SWITCH
   6) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MICRO SWITCH	MELE0MIC002	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-7. BALL ELEVATOR UP SWITCH ERROR (Er22)

ERROR or LOCATION	P1	P2
		

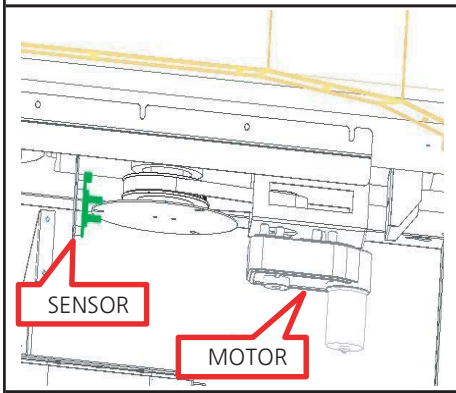
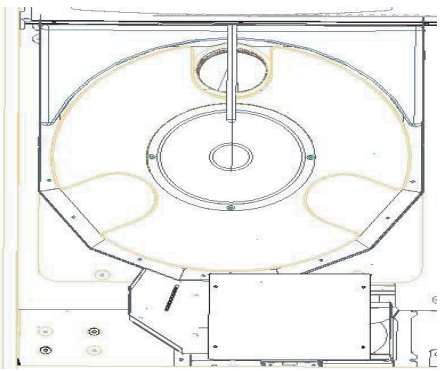
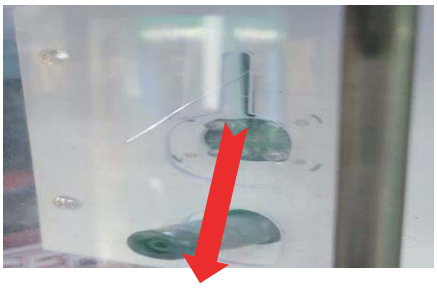
1	Below 0.1V	ON
2	Over 4.5V	OFF

▶SOLUTION

1. TEST MODE → INPUT TEST
   ▶ SETUP LCD Display status at the 3rd digit of the second line of the window
2. CHECK :
   1) BALL check and JAM check (P1)
   2) Check whether the BALL ELEVATOR works
   3) Check the cable connection (P2)
   4) Machine parts deformation
   5) Check SWITCH voltage (P2)
   6) Replace SWITCH
   7) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MICRO SWITCH	MELE0MIC002	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-8. BALL HOPPER ERROR (Er30)

ERROR or LOCATION	P1	P2
		

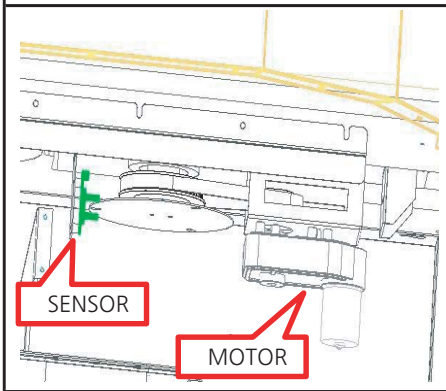
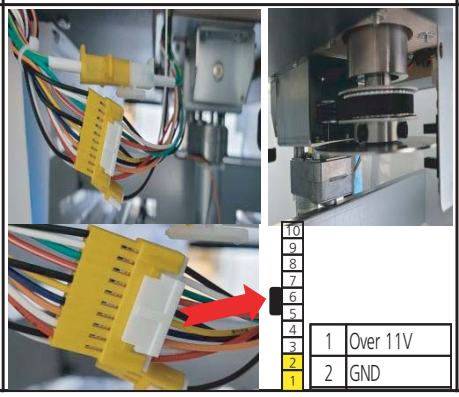
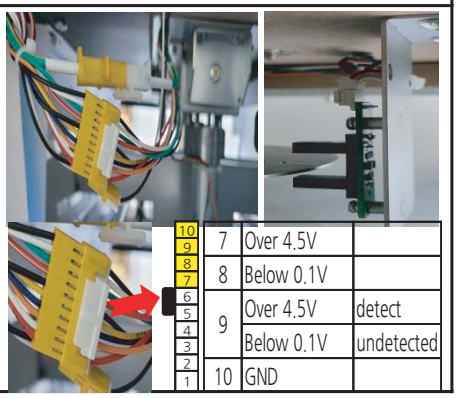
1	Below 0.1V	ON
2	Over 4.5V	OFF

▶SOLUTION

1. TEST MODE → BALL HOPPER TEST
   ▶ CREDIT FND : At the bottom of the first digit switch recognition status display
2. CHECK :
   1) Check the presence of balls in the BALL HOPPER and check the JAM (P1)
   2) Check the blockage of the ball inlet by foreign substances in the BALL HOPPER (P1)
   3) Machine parts deformation (P1)
   4) Check BALL REDAY SWITCH voltage (P2)
   5) Replace SWITCH
   6) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MICRO SWITCH	MELE0MIC002	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-9. BALL HOPPER SENSOR & MOTOR ERROR (Er31)

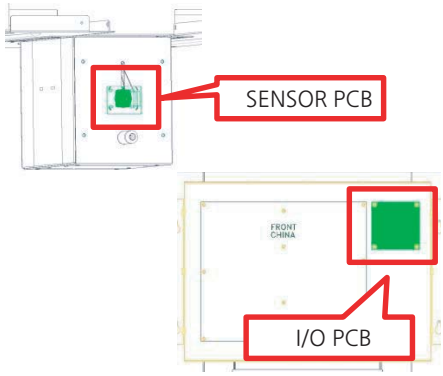
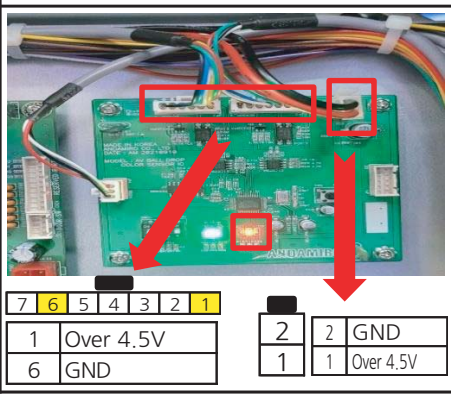
ERROR or LOCATION	P1	P2
		

▶SOLUTION

1. TEST MODE → BALL MECH. TEST
   ▶ SUPER BONUS FND : In the middle bar in the first place sensor status display
2. CHECK :
   1) Check the assembly status of pully and other motor machine parts (P1)
   2) Check the cable connection (P1, P2)
   3) Check belt and machine parts deformation
   4) Check Motor voltage (P1)
   5) Replace MOTOR
   6) Check Sensor PCB voltage (P2)
   7) Replace SENSOR PCB
   8) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT161	PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010		

11-10. COLOR SENSOR ERROR (Er40)

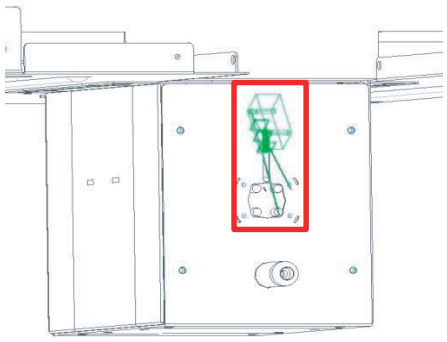
ERROR or LOCATION	P1	P2
		

▶SOLUTION

1. TEST MODE → COLOR TEST
   ▶ Check the COLOR value on the third line on the SETUP LCD window
   ▶ Run test using SETUP LCD ASS'Y button
   ▶ RIGHT : BALL SUPPLY / SELECT : BALL DISPOSE
   1) Check whether COLOR SENSOR I/O BOARD LED blinks 3 times
   2) Check the cable connection status (P1)
   3) Check the power of COLOR SENSOR I/O (P1)
   4) Replace SMPS
   5) Check the power of COLOR SENSOR (P1)
   6) Replace SENSOR PCB
   8) Replace SENSOR I/O PCB
   7) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
POWER SMPS	MELE0SMP096	COLOR SENSOR PCB ASS'Y	AAVB0PCB005
COLOR SENSOR IO PCB ASS'Y	AAVB0PCB004	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-11. BALL READY ERROR (Er41)

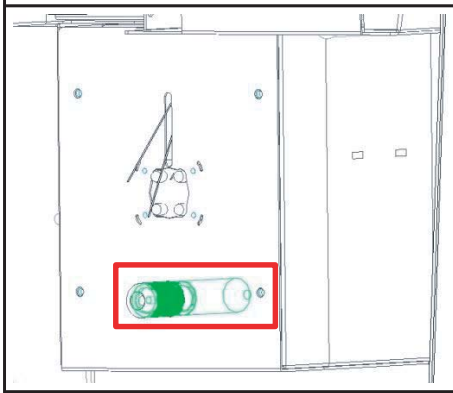
ERROR or LOCATION	P1	P2
		1 Below 0.1V ON 2 Over 4.5V OFF

▶SOLUTION

1. TEST MODE → INPUT TEST
   ▶ SETUP LCD Display status at the 4rd digit of the second line of the window
2. CHECK :
   1) Check the BALL position (P1)
   2) Check whether SWITCH is deformed (P1)
   3) Check the solenoid (P1)
   4) Check SWITCH voltage (P2)
   5) Replace SWITCH
   6) Replace SOLENOIDE
   7) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MICRO SWITCH	MELE0MIC002	SOLENOID ASS'Y	AELE0SOL001
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010		

11-12. SOLENOID ERROR (Er42)

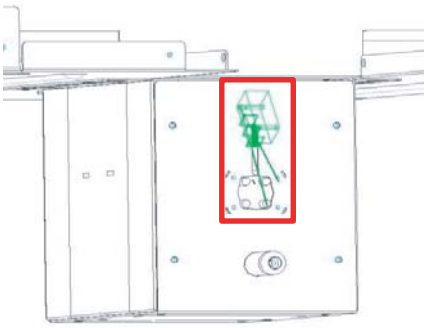
ERROR or LOCATION	P1	
		

▶SOLUTION

1. TEST MODE → SOLENOIDE TEST
   ▶ Turns on when the game button is pressed and turns off after 0.3 seconds
2. CHECK :
   1) Check the assembly status of solenoide parts (P1)
   2) Check the cable connection
   3) Replace SOLENOIDE
   4) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
SOLENOID ASS'Y	AELE0SOL001	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-13. BALL READY ERROR (Er43)

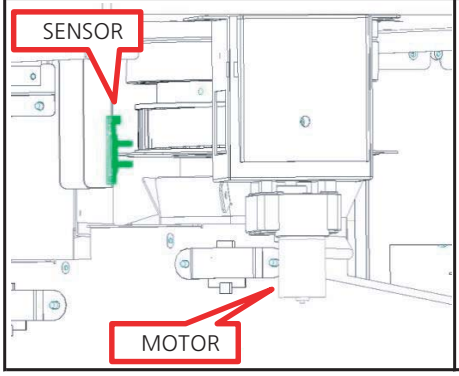
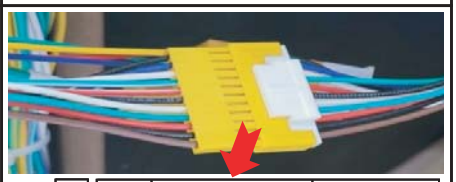
ERROR or LOCATION	P1	P2
		1 Below 0.1V ON 2 Over 4.5V OFF

▶SOLUTION

1. TEST MODE → INPUT TEST
   ▶ SETUP LCD Display status at the 4rd digit of the second line of the window
2. CHECK :
   1) Check whether the ball is not loaded (P1)
   2) Check whether SWITCH is deformed (P1)
   3) Check SWITCH voltage (P2)
   4) Replace SWITCH
   5) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MICRO SWITCH	MELE0MIC002	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-14. BOTTOM WHEEL SENSOR & MOTOR ERROR (Er50)

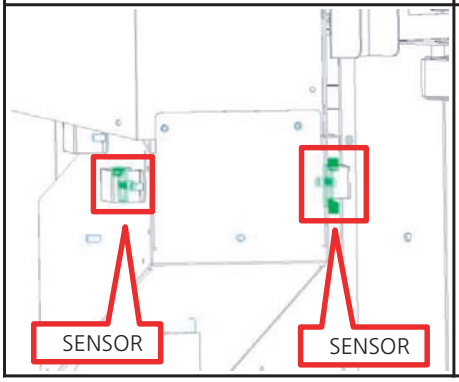
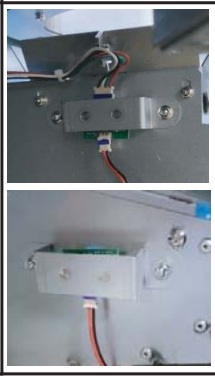
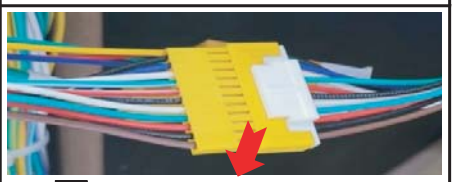
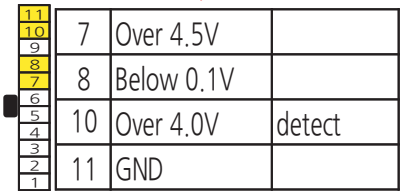
ERROR or LOCATION	P1	P2
	 	 11 10 9 8 7 6 5 4 3 2 1 1 Over -10.5V 2 GND 3 Over 4.5V 4 Below 0.1V 5 Over 4.5V detect Below 0.1V undetected 6 GND

▶SOLUTION

1. TEST MODE → BOTTOM WHEEL TEST
   ▶ CREDIT FND : Display sensor status
2. CHECK :
   1) Check the assembly status of pully and other motor machine parts (P1)
   2) Check the cable connection (P2)
   3) Check machine parts deformation (P1)
   4) Check Motor voltage (P2)
   5) Replace MOTOR
   6) Check Sensor PCB voltage (P2)
   7) Replace SENSOR PCB
   8) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT174	PHOTO INT-1 PCB ASS'Y	AZZZ0PCB103
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010		

11-15. BALL IN SUCCESS SENSOR ERROR (Er51)

ERROR or LOCATION	P1	P2
	 	 

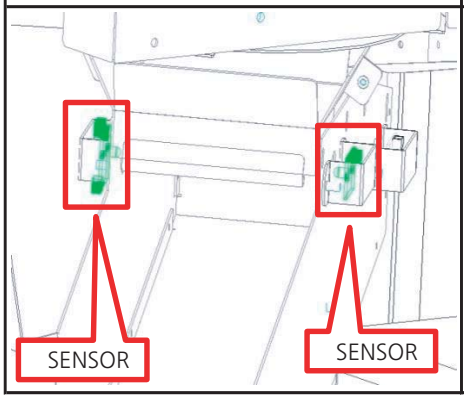
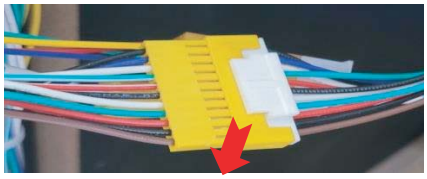
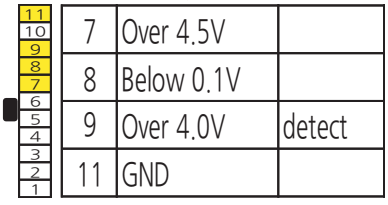
7	Over 4.5V	
8	Below 0.1V	
10	Over 4.0V	detect
11	GND	

▶SOLUTION

1. TEST MODE → INPUT TEST
   ▶ Display status at the 2rd digit of the second line of the window
2. CHECK :
   1) Check if there are no foreign substances, ball jams, etc. (P1)
   2) Check the cable connection (P1)
   3) Check machine parts deformation (P1)
   4) Check Sensor PCB voltage (P2)
   5) Replace SENSOR PCB
   6) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
BALL IN IR TR PCB ASS'Y	AAVB0PCB001	BALL IN IR RE PCB ASS'Y	AAVB0PCB002
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010		

11-16. BALL IN FAIL SENSOR ERROR (Er52)

ERROR or LOCATION	P1	P2
	  	 

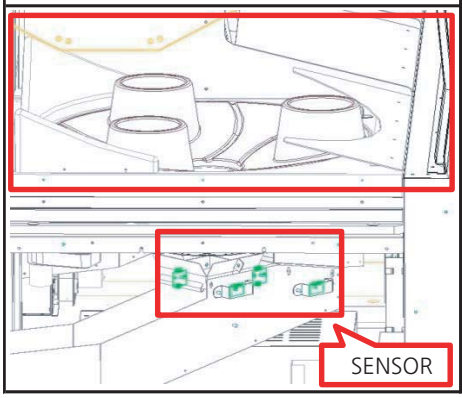
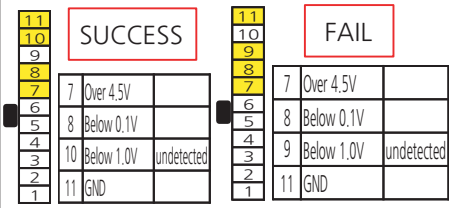
7	Over 4.5V	
8	Below 0.1V	
9	Over 4.0V	detect
11	GND	

▶SOLUTION

1. TEST MODE → INPUT TEST
   ▶ Display status at the 1rd digit of the second line of the window
2. CHECK :
   1) Check if there are no foreign substances, ball jams, etc. (P1)
   2) Check the cable connection (P1)
   3) Check machine parts deformation (P1)
   4) Check Sensor PCB voltage (P2)
   5) Replace SENSOR PCB
   6) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
BALL IN IR TR PCB ASS'Y	AAVB0PCB001	BALL IN IR RE PCB ASS'Y	AAVB0PCB002
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010		

11-17. BALL IN CHECK SENSOR ERROR (Er53)

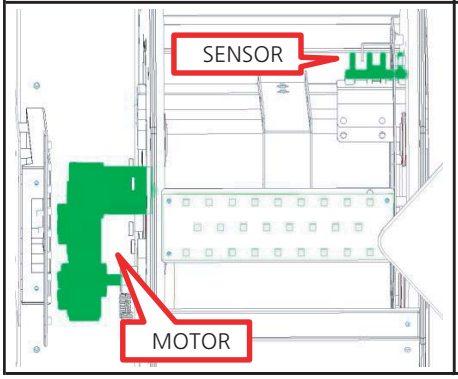
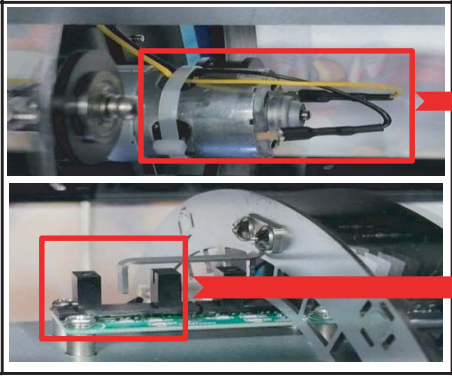
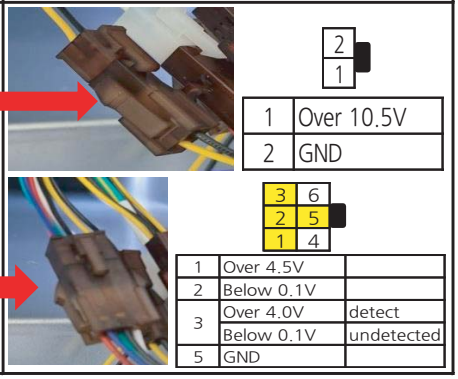
ERROR or LOCATION	P1	P2
		 

▶SOLUTION

1. TEST MODE → INPUT TEST
   ▶ Display status at the 2rd digit of the second line of the window (BALL IN SUCCES SENSOR)
   ▶ Display status at the 1rd digit of the second line of the window (BALL IN FAIL SENSOR)
2. CHECK :
   1) Check if there are no foreign substances, ball jams, etc. (P1)
   2) Check the cable connection (P1)
   3) Check machine parts deformation (P1)
   4) Check Sensor PCB voltage (P2)
   5) Replace SENSOR PCB
   6) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
BALL IN IR TR PCB ASS'Y	AAVB0PCB001	BALL IN IR RE PCB ASS'Y	AAVB0PCB002
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010		

11-18. SUPER SPIN SENSOR & MOTOR ERROR (Er60)

ERROR or LOCATION	P1	P2
		

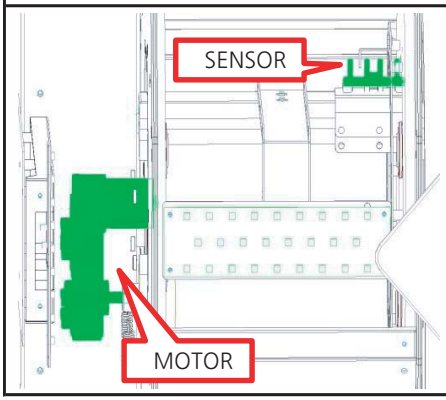
▶SOLUTION

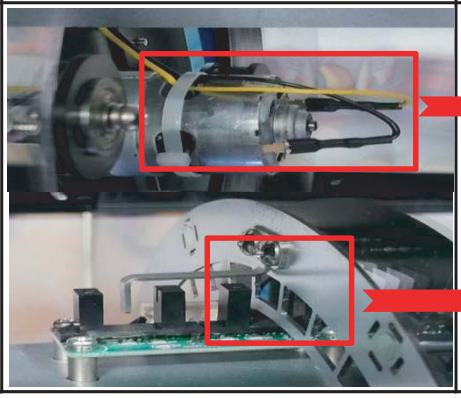
1. TEST MODE → SUPER SPIN TEST
   ▶ CREDIT FND : Display sensor status
   (1st digit: Datum point sensor /
   2nd digit: Dividing point sensor)
2. CHECK :
   1) Check the assembly status of equipment and motor (P1)
   2) Check the cable connection (P1, P2)
   3) Check machine parts deformation
   4) Check Motor voltage (P2)
   5) Replace MOTOR
   6) Check Sensor PCB voltage (P2)
   7) Replace SENSOR PCB
   8) Replace MAIN PCB

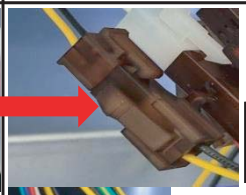
PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT176	PHOTO INT-2 PCB ASS'Y	AWIW0PCB009
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010		

11-19. SUPER SPIN SENSOR & MOTOR ERROR (Er61)

ERROR or LOCATION	P1	P2

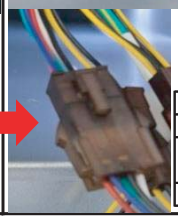






2
1

1	Over 10.5V
2	GND



3	6
2	5
1	4

1	Over 4.5V	
2	Below 0.1V	
4	Over 4.0V	detect
	Below 0.1V	undetected
5	GND	

▶SOLUTION

1. TEST MODE → SUPER SPIN TEST
   ▶ CREDIT FND : Display sensor status
   (1st digit : Datum point sensor /
   2nd digit : Dividing point sensor)
2. CHECK :
   1) Check the assembly status of equipment and motor (P1)
   2) Check the cable connection (P1, P2)
   3) Check machine parts deformation
   4) Check Motor voltage (P2)
   5) Replace MOTOR
   6) Check Sensor PCB voltage (P2)
   7) Replace SENSOR PCB
   8) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT176	PHOTO INT-2 PCB ASS'Y	AWIW0PCB009
AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010		

11-20. SUPER SPIN CALIBRATION LOW/HIGH ERROR (Er62, Er63)

ERROR or LOCATION

▶SOLUTION

1.SETUP MODE → CALIBRATION SPIN
   ▶ SUPER BONUS FND : CALIBRATION operation proceeds when "ST 2" DISPLAY
   ▶ SUPER BONUS FND : In "ST 3" DISPLAY, in-place stop inspection proceeds
   ▶ 1P TICKET FND : PWM value
   ▶ 2P TICKET FND :
   ① "ST 2" : Time is displayed for one rotation
   ② "ST 3" : Show the number of inspections
   ▶ 2P BALL DROP FND : Origin and branch sensor status display
2. CHECK :
   1) Recheck after power off/on
   2) CALIBRATION SPIN progress
   3) Replace MOTOR
   4) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT176	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-21. SUPER SPIN POSITION LOW/HIGH ERROR (Er64, Er65)

ERROR or LOCATION

▶SOLUTION

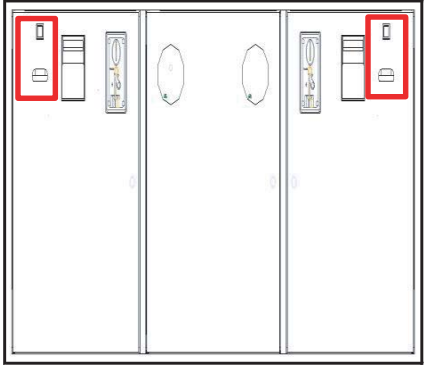
1.SETUP MODE → CALIBRATION SPIN
- ▶ SUPER BONUS FND : CALIBRATION operation proceeds when "ST 2" DISPLAY
- ▶ SUPER BONUS FND : In "ST 3" DISPLAY, in-place stop inspection proceeds
- ▶ 1P TICKET FND : PWM value
- ▶ 2P TICKET FND :
  - ① "ST 2" : Time is displayed for one rotation
  - ② "ST 3" : Show the number of inspections
- ▶ 2P BALL DROP FND : Origin and branch sensor status display

2. CHECK :
   1) Recheck after power off/on
   2) CALIBRATION SPIN progress
   3) Replace MOTOR
   4) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
MOTOR	MZZZ0MOT176	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010

11-22. TICKET ERROR (Er-t)

ERROR or LOCATION



▶SOLUTION

1. TEST MODE → TICKET TEST
2. CHECK :
   1) Check whether TICKET JAM
   2) Check the cable connection status
   3) Replace TICKET DISPENSER
   4) Replace MAIN PCB

PART NAME	CODE	PART NAME	CODE
TICKET DISPENSER	MZZZ0TID010	AV2 MAIN PCB ASS'Y WITH CPU & MEMORY	AAV20PCB010