[QR CODE]

* If a problem occurs, enter the appropriate QR code. Once connected, you can watch a YouTube video about the inspection details.

NO	DEFECT SYMPTOM	QR CODE
1	E.31 MAIN CHECKER MOTOR ERROR : MOTOR OR ENCODER SENSOR	E.31
2	E.35 MAIN CHECKER SENSOR ERROR	E.35
3	E.41 PUSHER ERROR : MOTOR OR SENSOR	E.41
4	E.51 BONUS BALL ENCODER ERROR : MOTOR OR ENCODER SENSOR CHECK IF BALL JAM OCCURS DUE TO A BALL OR FOREIGN MATERIAL IN THE BALL BOX	E.51

5	E.52 BONUS BALL SENSOR ERROR : UP SENSOR OR EMPTY SENSOR. CHECK IF THE BALL IS SEPARATED FROM THE RAIL AND INTO THE PRODUCT. IN CASE THERE IS NO BALL IN THE BALL BOX (SEE BELOW) 1. IN CASE BALL IS SEPARATED FROM THE BALL ELEVATOR AND DROPPED INTO THE PRODUCT 2. IN CASE BALL TRANSFER IS WRONG DUE TO AN ERROR IN INTERNAL BALL CIRCULATION DEVICE	E.52
6	E.61 MAIN BALL ENCODER ERROR : MOTOR OR ENCODER SENSOR. CHECK IF BALL JAM HAS OCCURRED DUE TO A BALL FOREIGN MATERIAL IN THE BALL BOX	E.61
7	E.62 MAIN BALL SENSOR ERROR : UP SENSOR OR EMPTY SENSOR. CHECK IF THE BALL IS SEPARATED FROM THE RAIL AND INTO THE PRODUCT IN CASE THERE IS NO BALL IN THE BALL BOX (SEE BELOW) 1. IN CASE BALL IS SEPARATED FROM THE BALL ELEVATOR AND DROPPED INTO THE PRODUCT 2. IN CASE BALL TRANSFER IS WRONG DUE TO AN ERROR IN INTEMAL BALL CIRCULATION DEVICE	E.62
8	E.71 INTERNAL BALL ELEVATOR ERROR : MOTOR OR ENCODER SENSOR. IN CASE BALL IS SEPARATED FROM THE BALL ELEVATOR AND DROPED INTO THE PRODUCT IN CASE JAM OCCURS IN THE WAITING AREA OF BALL ELEVATOR RAIL DUE TO A LARGE NUMBER OF BALLS FALLING FROM THE PUSHER PLATE	E.71
9	E.72 INTERNAL BALL CIRCULATION BRIDGE ERROR : MOTOR OR SENSOR. IN CASE BALL IS LOADED DUE TO MALFUNCTION OF EMPTY SENSOR AND INTERFERES WITH LIFT MOVEMENT	E.72

*** ANDAMIRO WARRANTS the parts from date of shipment as follows.**

- One Year Limited Warranty : Electronic Boards
- 6 Month Limited Warranty : Moving Parts

CONTENTS

[1. ERROR CODE]

"E.02", "E.03", "E.21" MAKE MACHINE STOP ANDTHE OTHER ERROR MAKES ONLY RELATED PLAYER STOP THE GAME. “TICKET ERROR”, “CARD DISPENSOR ERROR” JUST DISPLAYS ERROR ONLY WITHOUT STOPPING THE GAME

ERROR CODE	CONTENTS	DESCRIPTION	CHECK
E.02	SYSTEM	PROBLEM AT SET-UP DATA SAVING	1. CHECK SET-UP AND SAVE 2. FASTORY SETTING 3. POWER ON, OFF 4. IF PROBLEM NOT SOLVED, REPLACE MAIN BOARD
E.03		PROBLEM AT GAME DATA SAVING	1. CLEAR DATA AT CLEAR MODE 2. POWER ON, OFF 3. IF PROBLEM NOT SOLVED, REPLACE MAIN BOARD
E.11	COIN SELECTOR	COIN SENSOR SIGNAL CONTINUES	CHECK COIN SENSOR INPUT
E.21	MK(PC) SERIAL COMMUNICATION	COMMUNICATION PROBLEM BETWEEN DISPLAY MONITOR AND MK (PC). COMMUNICATION ERROR CAN NOT BE CONTROLLED IN DISPLAY MONITOR. VIDEO ERROR IS TREATED SEPARATELY AND MAIN BOARD IS AT FND	1. CHECK WIRING CONNECTION 2. CHECK BOOTING MK(PC) 3. CHECK COMMUNICATION OF MAIN BOARD
E.31	MAIN CHECKER MOTOR	NO SIGNAL FROM DIVIDED ENCORDER	1. CHECK MOTOR OPERATION 2. CHECK ENCORDER SENSOR INPUT STATUS
E.35		CHECKER SENSOR PROBLEM (SIGNAL CONTINUES)	1. CHECK WIRING CONNECTION 2. CHECK SENSOR INPUT STATUS
E.41	PUSHER MOTOR	PUSHER MOTOR FUNCTION PROBLEM	1. CHECK MOTOR FUNCTION STATUS 2. CHECK ENCORDER SENSOR INPUT STATUS
E51	BONUS BALL SHOOTING MOTOR	BONUS BALL SHOOTING BALL JAM PROBLEM	1. CHECK BALL JAMMING 2. CHECK ENCORDER SENSOR INPUT STATUS
E52		NO BONUS BALL OR SENSOR PROBLEM	1. CHECK BALL PRESENCE 2. CHECK UPPER SENSOR INPUT STATUS

E.61	MAIN BALL SHOOTING MOTOR	SHOOTING BALL JAM PROBLEM	1. CHECK BALL JAMMING 2. CHECK ENCORDER SENSOR INPUT STATUS
E.62		NO SHOOTING BALL OR SENSOR PROBLEM	1. CHECK BALL PRESENCE 2. CHECK UPPER SENSOR INPUT STATUS
E.71	INTERNAL BALL CIRCULATION DEVICE	INTERNAL BALL CIRCULATION ELEVATOR MOTOR PROBLEM	1. CHECK MOTOR OPERATION 2. CHECK ENCORDER SENSOR INPUT STATUS
E.72		PROBLEM OF BALL POSITION MOTOR AT INTERNAL BALL CIRCULATION SYSTEM	1. CHECK MOTOR OPERATION 2. CHECK POSITION SENSOR INPUT STATUS
E.81 (CARD EMPTY)	CARD DISPENSER	NO CARD OR CARD DISPENSER WORKING PROBLEM DISPLAY CARD EMPTY IN 1ST ERROR AND CARD ERROR FROM 2ND ERROR	1. CHECK CARD PRESENCE 2. CHECK CARD DISPENSER OPERATION
E.82 (CHIP EMPTY)	CHIP HOPPER	NO CHIP OR CHIP HOPPER WORKING PROBLEM DISPLAY CHIP EMPTY IN 1ST ERROR AND CHIP ERROR FROM 2ND ERROR	1. CHECK CHIP PRESENCE 2. CHECK CHIP HOPPER FUNCTION
HELP (IN VIDEO TICKET WINDOW)	TICKET	NO TICKET	1. CHECK TICKET PRESENCE 2. CHECK TICKET MOTOR FUNCTION 3. CHECK TICKET DISPENSING SENSOR
!CHECK RFID IO	RFID IO PROBLEM		

※ BASICALLY ERROR CODE IS DISPLAYED IN SETUP LCD AND PLAYER'S MONITOR.
IN CASE ERROR HAPPENS BOTH AT 1P AND 2P, ERROR CODE IS DISPLAYED AT SUPER BONUS FND AND PLAYER'S MONITOR. BOTH "Er" and ERROR CODE ARE DISPLAYED.

* ERROR CODE ERROR DETECTION METHOD

ERROR CODE	CONTENTS	DESCRIPTION	CHECK
E.02	SYSTEM	SET-UP DATA SAVING PROBLEM	POWER ON, CHECK BACK UP MEMORY IN MAIN BOARD SET-UP
E.03		GAME SAVING DATA PROBLEM	POWER ON, CHECK BACK UP MEMORY IN MAIN BOARD SET-UP
E.11	COIN SELECTOR	PLAYER COIN SENSOR SIGNAL CONTINUES	SIGNAL CONTINUES OVER 2 SEC WHILE INHIBIT IS ON
E.21	MK(PC) SERIAL COMMUNICATION	COMMUNICATION PROBLEM BETWEEN DISPLAY MONITOR AND MK (PC). COMMUNICATION ERROR CAN NOT BE CONTROLLED IN DISPLAY MONITOR. VIDEO ERROR IS TREATED SEPARATELY AND MAIN BOARD IS AT FND	1. BEFORE MK BOOTING : ERROR IF NO SIGNAL FOR 1 MIN 2. AFTER MK BOOTING (MAIN BOOT FINISHED) : ERROR IF NO SIGNAL FOR 30 SEC, (10 TIMES SIGNAL AT 3 SEC INTERVAL)
E.31	MAIN CHECKER MOTOR	NO SIGNAL FROM DIVIDED POINTS ENCORDER	IF NO SIGNAL OVER 1 SEC, TRY REVERSE ROTATION AND FORWARD ROTATION. REPEAT 3 TIMES. IF STILL THE SAME THEN ERROR
E.35		CHECKER SENSOR PROBLEM (CONTINUED SIGNAL)	SIGNAL CONTINUES FOR OVER 3 SEC
E.41	PUSHER MOTOR	PUSHER MOTOR OPERATION PROBLEM	NO SIGNAL FROM ENCORDER FOR OVER 1 SEC
E51	BONUS BALL SHOOTING MOTOR	BONUS BALL, SHOOTING BALL JAM PROBLEM	IF NO SIGNAL OVER 2 SEC FROM ENCORDER, TRY REVERSE AND FORWARD ROTATION 3 TIMES. IF STILL THE SAME, THEN ERROR
E52		NO BONUS BALL OR SENSOR PROBLEM	NO SIGNAL FROM UPPER SENSOR WHILE DISPENSING BALL 8 TIMES AT AN INTERVAL OF 3 SEC
E.61	MAIN BALL SHOOTING MOTOR	SHOOTING BALL JAM PROBLEM	TRY REVERSE ROTATION IF NO SIGNAL OVER 2 SEC AND FORWARD ROTATION. REPEAT 3 TIMES
E.62		NO BALL OR SENSOR ERROR	NO SENSOR SIGNAL FROM UPPER SENSOR WHILE DISPENSING 8 BALLS AT AN INTERVAL OF 3 SEC

E.71	INTERNAL BALL CIRCULATION SYSTEM	INTERNAL BALL CIRCULATION ELEVATOR MOTOR PROBLEM	IF NO ENCORDER SIGNAL OVER 1 SEC, TRY REVERSE AND FORWARD ROTATION 3 TIMES. IF STILL NO SIGNAL, IT'S AN ERROR
E.72		BALL SUPPLY MOTOR PROBLEM AT INTERNAL BALL CIRCULATION SYSTEM	IF NO POSITION SENSOR SIGNAL FOR 3 SEC DURING MOTOR OPERATION, TRY REVERSE ROTATION 2 TIMES. IF STILL NO SIGNAL. IT'S AN ERROR
E.81 (CARD EMPTY)	CARD DISPENSER	NO CARD OR CARD DISPENSER FUNCTION PROBLEM 1ST ERROR IS DISPLAYED AS CARD EMPTY AT MONITOR AND THEN CARD ERROR IF CARD IS STILL NOT DISPENSED	IF NO SENSOR SIGNAL WHILE CARD DISPENSOR IS BEING OPERATED, IT'S AN ERROR EVEN AFTER RE-TRYING 3 TIMES
E.82 (CHIP EMPTY)	CHIP HOPPER	NO CHIP OR CHIP HOPPER FUNCTION PROBLEM 1ST ERROR IS DISPLAYED AS CHIP EMPTY AT MONITOR WHEN THERE IS NO CHIP AND THEN CHIP ERROR IF CHIP IS STILL NOT DISPENSED	IF NO SENSOR SIGNAL FOR OVER 2 SEC WHILE CHIP HOPPER IS BEING OPERATED, RE-TRY AFTER WAITING 0.5 SEC. IT'S AN ERROR IF THERE IS NO SIGNAL AFTER RETRYING 5 TIMES
HELP (IN VIDEO TICKET WINDOW)	TICKET	NO TICKET	

[2. TEST MODE]

TEST MODE		
TEST ITEMS	SET UP ITEMS	DESCRIPTION
INPUT TEST	[=>]	ENTER INTO CHECK MODE OF INPUT STATUS 1P GAME BTN, 2P GAME BTN 1P COIN SEN, 2P COIN SEN 1P TICKET BTN, 2P TICKET BTN, 1P TICKET SEN, 2P TICKET SEN, 1P SERVICE, 2P SERVICE, SETUP UP, DOWN, LEFT, RIGHT, SELECT, CANCEL BUTTON
FND & LAMP	"OFF" "STEP" "ON" "ON/OFF"	LAMP, FND, LED OPERATION TEST WHEN PRESSING SELECT BUTTON, IT PERFORMS EACH STAGE - TOTALLY OFF - DISPLAY IN SEQUENCE : LAMP → FND → LED - TOTALLY ON - REPEATION ON / OFF TO TALLY
MOT PUSHER	"ALL" "1P" "2P"	MAIN PUSHER MOTOR MOVING TEST ◎ SELECT A PLAYER BY PRESSING LEFT, RIGHT BUTTON AND THEN PRESS SELECT BUTTON TO START (OR WITH SHOOTING BUTTONFOR 1P,2P, IT OPERATES ON, OFF RESPECTIVELY) DISPLAY SUPER BONUS FND 4DIGIT SENSOR STATUS FND [■□□□] : 1P DISPLAY OF ENCORDER SENSOR STATUS (0 or 1) FND [□■□□] : 1P DISPLAY OF ENCORDER SENSOR CHECK COUNT(0 ~ 9) FND [□□■□] : 2P DISPLAY OF ENCORDER SENSOR STATUS(0 or 1) FND [□□□■] : 2P DISPLAY OF ENCORDER SENSOR CHECK COUNT (0 ~ 9) [DISPLAY ITEMS AT SETUP LCD] 1P, 2P ENC: DISPLAY OF ENCORDER SENSOR STATUS AND NUMBER OF SENSOR CHECK COUNT
MOT CHECKER	"ALL" "1P" "2P"	MAIN CHECKER MOTOR OPERATION TEST ◎ SELECT A PLAYER BY PRESSING LEFT, RIGHT BUTTON AND THEN PRESS SELECT BUTTON TO START (OR WITH SHOOTING BUTTON FOR 1P, 2P, IT OPERATES ON, OFF RESPECTIVELY) DISPLAY SUPER BONUS FND 4DIGIT SENSOR STATUS FND [■□□□] : 1P STARTING POINT ENCORDER SENSOR CHECK COUNT (0 ~ 9) FND [□■□□] : 1P DIVIDED POINTS ENCORDER SENSOR CHECK COUNT (0 ~ 9) FND [□□■□] : 2P STARTING POINT ENCORDER SENSOR CHECK COUNT (0 ~ 9) FND [□□□■] : 2P DIVIDED POINTS ENCORDER SENSOR CHECK COUNT (0 ~ 9) ※ WHEN CHECKER SENSOR IS SENSED, CHECKER LED LIGHTS BLUE [DISPLAY ITEMS AT SETUP LCD] DISPLAY OF CHECKER MOTOR ENCORDER STARTING POINT, DIVIDED POINT, NUMBER OF DIVIDED POINT CHECK COUNT

MOT SHOOTER	"ALL" "1P" "2P"	MAIN BALL SHOOTER OPERATION TEST ◎ SELECT A PLAYER BY PRESSING LEFT, RIGHT BUTTON AND THEN PRESS SELECT BUTTON TO START (OR WITH SHOOTING BUTTON FOR 1P, 2P, IT OPERATES ON, OFF RESPECTIVELY) DISPLAY SUPER BONUS FND 4DIGIT SENSOR STATUS FND [■□□□] : 1P SHOOTER, DISPLAY OF UPPER BALL DISPENSING SENSOR STATUS(0 or 1) FND [□■□□] : 1P SHOOTER,LOWER ENCORDER SENSOR CHECK COUNT (0 ~ 9) FND [□□■□] : 2P SHOOTER,DISPLAY OF UPPER BALL DISPENSING SENSOR STATUS(0 or 1) FND [□□□■] : 2P SHOOTER, LOWER ENCORDER SENSOR CHECK COUNT (0 ~ 9) DISPLAY OF MONITOR LEFT/RIGHT LED COLOR (1P, 2P IN OPPOSITE DIRECTION) 1P LEFT LED : RED ON → MAIN SHOOTER BALL EMPTY SENSOR SIGNAL 1P RIGHT LED : GREEN ON → BONUS BALL EMPTY SENSOR SIGNAL 2P LEFT LED : GREEN ON → BONUS BALL EMPTY SENSOR SIGNAL 2P RIGHT LED : RED ON → MAIN SHOOTER BALL EMPTY SENSOR SIGNAL [DISPLAY ITEMS AT SETUP LCD] 1P, 2P SEN : STATUS OF BALL ELEVATOR UPPER SENSOR OF MAIN SHOOTER 1P, 2P ENC : STATUS OF LOWER ENCORDER SENSOR OF MAIN SHOOTER 1P, 2P EMPTY: STATUS OF BALL CHECKING SENSOR FOR BALL BOX OF MAIN SHOOTER (0 - NO BALL, 1 - FULL OF BALLS)
MOT BNS BALL	"ALL" "1P" "2P"	BONUS BALL SHOOTER OPERATION TEST ◎ SELECT A PLAYER BY PRESSING LEFT, RIGHT BUTTON AND THEN PRESS SELECT BUTTON TO START (OR WITH SHOOTING BUTTON FOR 1P, 2P, IT OPERATES ON, OFF RESPECTIVELY) DISPLAY SUPER BONUS FND 4DIGIT SENSOR STATUS FND [■□□□] : 1P BONUS BALL, DISPLAY OF UPPER BALL DISPENSING SENSOR STATUS(0 or 1) FND [□■□□] : 1P BONUS BALL, LOWER ENCORDER SENSOR CHECK COUNT (0 ~ 9) FND [□□■□] : 2P BONUS BALL, DISPLAY UPPER BALL DISPENSING SENSOR STATUS(0 or 1) FND [□□□■] : 2P BONUS BALL, LOWER ENCORDER SENSOR CHECK (0 ~ 9)

MOT BNS BALL		DISPLAY OF MONITOR LEFT/RIGHT LED COLOR (1P, 2PIN OPPOSITE DIRECTION) 1P LEFT LED : RED ON → MAIN SHOOTER BALL EMPTY SENSOR SIGNAL 1P RIGHT LED : GREEN ON → BONUS BALL EMPTY SENSOR SIGNAL 2P LEFT LED : GREEN ON → BONUS BALL EMPTY SENSOR SIGNAL 2P RIGHT LED : RED ON → MAIN SHOOTER BALL EMPTY SENSOR SIGNAL [DISPLAY ITEMS AT SETUP LCD] 1P, 2P SEN : STATUS OF UPPER SENSOR OF BONUS BALL ELEVATOR 1P, 2P ENC : STATUS OF LOWER ENCORDER SENSOR OF BONUS BALL ELEVATOR 1P, 2P EMPTY : STATUS OF BALL CHECKING SENSOR FOR BALL BOX OF BONUS BALL ELEVATOR
MOT CIRC ELEV	"ALL" "1P" "2P"	INTERNAL BALL CIRCULATON ELEVATOR MOVING TEST ◎ SELECT A PLAYER BY PRESSING LEFT, RIGHT BUTTON AND THEN PRESS SELECT BUTTON TO START (OR WITH SHOOTING BUTTON FOR 1P, 2P, IT OPERATES ON, OFF RESPECTIVELY) DISPLAY SUPER BONUS FND 4DIGIT SENSOR STATUS FND [□■□□] : 1P ENCORDER SENSOR CEHCK COUNT(0 ~ 9) FND [□□□■] : 2P ENCORDER SENSOR CEHCKCOUNT (0 ~ 9) DISPLAY OF MONITOR LEFT/RIGHT LED COLOR (1P, 2PIN OPPOSITE DIRECTION) 1P LEFT LED : RED ON → MAIN SHOOTER BALL EMPTY SENSOR SIGNAL 1P RIGHT LED : GREEN ON → BONUS BALL EMPTY SENSOR SIGNAL 2P LEFT LED : GREEN ON → BONUS BALL EMPTY SENSOR SIGNAL 2P RIGHT LED : RED ON → MAIN SHOOTER BALL EMPTY SENSOR SIGNAL [DISPLAY ITEMS AT SETUP LCD] 1P, 2P ENC : STATUS OF INTERNAL BALL CIRCULATION ELEVATOR ENCORDER
MOT CIRC BRID	"ALL" "1P" "2P"	OPERATION TEST OF MOTOR FOR INTERNAL BALL CIRCULATION SUPPLY DIRECTION ◎ SELECT A PLAYER BY PRESSING LEFT, RIGHT BUTTON AND THEN PRESS SELECT BUTTON TO START (OR WITH SHOOTING BUTTON FOR 1P, 2P, IT OPERATES ON, OFF RESPECTIVELY)

MOT CIRC BRID		DISPLAY SUPER BONUS FND 4DIGIT SENSOR STATUS FND [□■□□] : 1P DISPLAY OF BRIDGE POSITION SENSOR STATUS (0 - NO SENSOR SIGNAL, 1 - MAIN SHOOTER POSITION, 2 - BONUS BALL POSITION) FND [□□□■] : 1P DISPLAY OF BRIDGE POSITION SENSOR STATUS (0 - NO SENSOR SIGNAL, 1 - MAIN SHOOTER POSITION, 2 - BONUS BALL POSITION) DISPLAY MONITOR LEFT/RIGHT LED COLOR (1P, 2P OPPOSITE DIRECTION) 1P LEFT LED : RED ON → MIAN SHOOTER BALL EMPTY SENSOR SIGNAL 1P RIGHT LED : GREEN ON → BONUS BALL EMPTY SENSOR SIGNAL 2P LEFT LED : GREEN ON → BONUS BALL EMPTY SENSOR SIGNAL 2P RIGHT LED : RED ON → MAIN SHOOTER BALL EMPTY SENSOR SIGNAL [DISPLAY ITEMS AT SETUP LCD] 1P, 2P SHOT : STATUS OF INTERNAL BALL CIRCULATION - SUPPLY MOTOR AND DIRECTION SENSOR OF MAIN SHOOTER 1P, 2P BNS : STATUS OF INTERNAL BALL CIRCULATION - SUPPLY MOTOR AND DIRECTION SENSOR OF BONUS BALL ELEVATOR
CARD DISPENS	"ALL" "1P" "2P"	CARD DISPENSER OPERATION TEST ◎ SELECT A PLAYER BY PRESSING LEFT, RIGHT BUTTON AND THEN PRESS SELECT BUTTON TO START (OR WITH SHOOTING BUTTON FOR 1P, 2P, IT OPERATES ON, OFF RESPECTIVELY DISPLAY SUPER BONUS FND 4DIGIT SENSOR STATUS FND [■□□□] :1P DISPLAY OF CARD DISPENSER OPERATION FND [□■□□] :1P DISPLAY OF CARD OUT QUANTITY FND [□□■□] :2P DISPLAY OF CARD DISPENSER OPERATION FND [□□□■] :2P DISPLAY OF CARD OUT QUANTITY [DISPLAY ITEMS AT SETUP LCD] 1P, 2P CARD OUT : DISPLAY OF CARD DISPENSING STATUS (SENSOR STATUS, NUMBER OF DISPENSED CARDS, NUMBER OF RE-TRIAL TO DISPENSE CARDS)
CHIP HOPPER	"ALL" "1P" "2P"	CHIP HOPPER OPERATION TEST ◎ SELECT A PLAYER BY PRESSING LEFT, RIGHT BUTTON AND THEN PRESS SELECT BUTTON TO START (OR WITH SHOOTING BUTTON FOR 1P, 2P, IT OPERATES ON, OFF RESPECTIVELY)

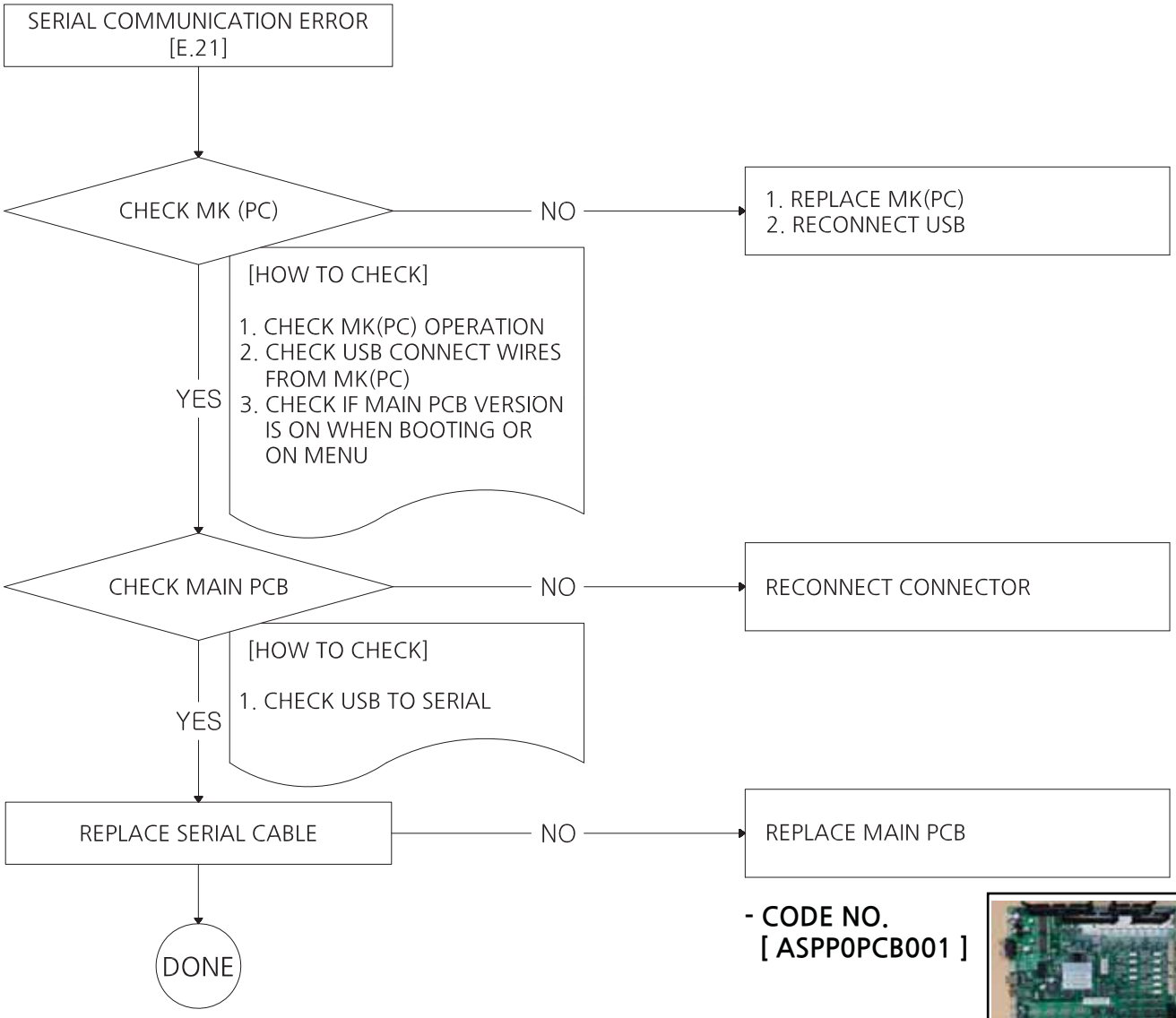
CHIP HOPPER		DISPLAY SUPER BONUS FND 4DIGIT SENSOR STATUS FND [■□□□] : 1P DISPLAY OF CHIP HOPPER OPERATION FND [□■□□] : 1P DISPLAY OF CHIP OUT QUANTITY FND [□□■□] : 2P DISPLAY OF CHIP HOPPER OPERATION FND [□□□■] : 2P DISPLAY OF CHIP OUT QUANTITY [DISPLAY ITEMS AT SETUP LCD] 1P, 2P CHIP OUT : STATUS OF CHIP DISPENSING (SENSOR STATUS, NUMBER OF DISPENSED CHIPS, NUMBER OF RE-TRIAL TO DISPENSE CHIPS)
RFID CHIP IO	[=>]	RFID CHIP IO MODULE TEST ◎ SELECT A PLAYER BY PRESSING LEFT, RIGHT IN MODE AND PRESS SELECT BUTTON TO TEST [DISPLAY ITEMS AT SETUP LCD] MODE : “ALL OFF” : TOTAL CHIP SELECTOR OFF “ALL ON” : TOTAL CHIP SELECTOR ON “1P OFF” : 1P CHIP SELECTOR OFF “1P ON” : 1P CHIP SELECTOR ON “2P OFF” : 2P CHIP SELECTOR OFF “2P ON“ : 2P CHIP SELECTOR ON 1P SEPARATE DISPLAY (OFF, ON, CHIP ID COLOR, STORE CODE, ERROR AND ETC) 2P SEPARATE DISPLAY (OFF, ON, CHIP ID COLOR, STORE CODE, ERROR AND ETC) ※ WHEN CHIP SELECTOR IS NOT CONNECTED ‘NOT FOUND’ IS DISPLAYED
COIN	“OFF” “ON”	COIN OPERATION TEST ◎ WHEN PRESSING SELECT BUTTON, 1P AND 2P ON/OFF OPERATES TOGETHER (WHEN PRESSING SHOOTING BUTTON OF 1P/2P, IT OPERATES SEPARATELY) [DISPLAY ITEMS AT SETUP] COIN 0 0 (DISPLAY OF COIN SENSOR CHECK COUNT 1P, 2P)
TICKET	“ALL” “1P” “2P”	TICKET DISPENSER OPERATION TEST(DISPENSING 3 TICKETS) ◎ SELECT A TYPE BY PRESSING LEFT, RIGHT BUTTON AND PRESS SELECT BUTTON TO TEST (WHEN PRESSING SHOOTING BUTTON OF 1P/2P, IT OPERATES SEPARATELY) [DISPLAY ITEMS AT SETUP LCD] TICKET 0 0 (DISPLAY OF TICKET COUNT TO BE DISPENSED FOR 1P, 2P)

COUNTER	“COIN” “TICKET” “CHIP”	COUNTER TEST ◎ SELECT A TYPE BY PRESSING LEFT, RIGHT BUTTON AND PRESS SELECT BUTTON TO TEST (WHEN PRESSING SHOOTING BUTTON OF 1P/2P, IT OPERATES SEPARATELY)
SOUND	“OFF” “CH” “PLAY”	SOUND TEST ◎ SELECT THE TYPE BY PRESSING LEFT, RIGHT BUTTON AND PRESS SELECT BUTTON TO TEST (PLAY, STOP) - STOP SOUND PLAY - TEST OF EACH SPEAKER (1P LEFT, 2P RIGHT) - PLAY TOTAL SOUND
SCREEN	"OFF" "GRID" "COLOR" "RED" "GREEN" "BLUE" "WHITE"	VIDEO MONITOR SCREEN TEST ◎ SELECT BY PRESSING LEFT, RIGHT BUTTON, PRESS SELECT BUTTON TO TEST EACH ITEM IN SEQUENCE. - MONITOR SCREEN : IDLE STATUS - MONITOR SCREEN : GRID TEST - MONITOR SCREEN : DISPLAY OF COLORS - MONITOR SCREEN : DISPLAY OF RED COLOR - MONITOR SCREEN : DISPLAY OF GREEN COLOR - MONITOR SCREEN : DISPLAY OF BLUE COLOR - MONITOR SCREEN : DISPLAY OF WHITE COLOR
EXIT		END OF TEST MODE (EXIT TO OPERATING OPTIONS)

[3. TROUBLESHOOTING]

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

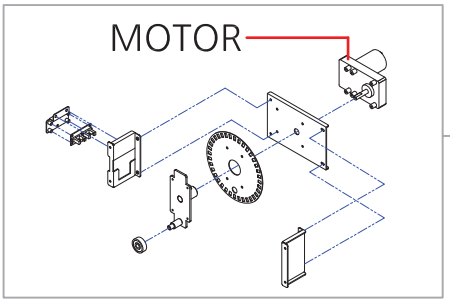
1. SERIAL COMMUNICATION ERROR [E.21]
- IN CASE OF SERIAL COMMUNICATION PROBLEM BETWEEN MAIN PCB AND MK(PC)

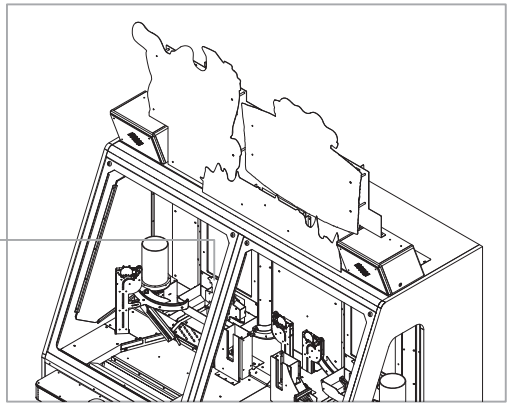


- **CODE NO.**
  [ASPP0PCB001]

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

2. MAIN CHECKER MOTOR ERROR [E.31]
- IN CASE OF MOTOR PROBLEM





MAIN CHECK MOTOR ERROR [E.31]

MOTOR TEST
- YES → DONE
- NO →

[HOW TO TEST]

1. TEST MODE > MOT CHECKER
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. USE ANALOG TESTER ONLY WHEN YOU CHECK DC VOLTAGE AT MOT CHECKER

CHECK MAIN CHECKER MOTOR
- NO →
  1. RECONNECT CONNECTOR
  2. REASSEMBLE OR REPLACE
  3. REMOVE DEBRIS OR BALLS
- YES →

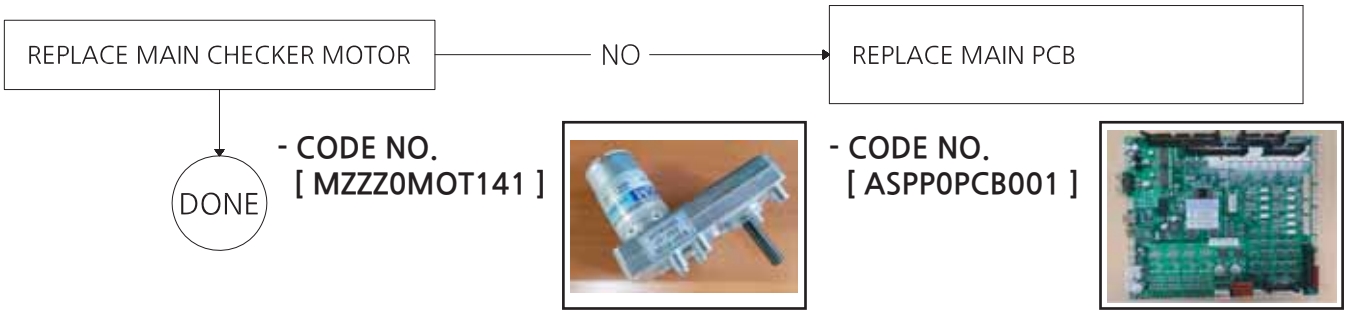
[HOW TO CHECK]

1. CHECK MOTOR CONNECTOR
2. CHECK IF MOTOR OR BOLT IS FIXED IN PLACE
3. CHECK DEBRIS OR BALLS INSIDE

CHECK MAIN PCB
- NO →
  1. RECONNECT CONNECTOR
  2. REPLACE MAIN PCB
- YES →

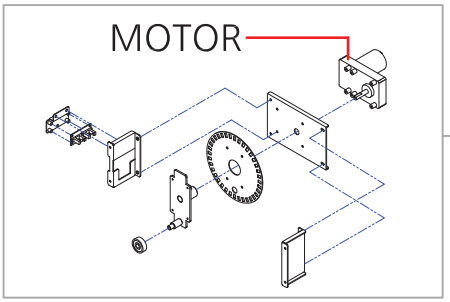
[HOW TO CHECK]

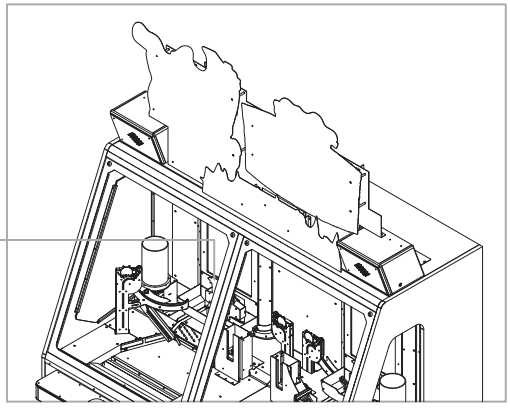
1. CHECK CONNECTOR CN23
2. CHECK DC VOLTAGE OF CONNECTOR CN23 WHEN MOTOR IS ON
   1P) CHECK IF 6V ON PIN 1,2
   2P) CHECK IF 6V ON PIN 3,4
3. CHECK JOIN CONNECTOR


REPLACE MAIN CHECKER MOTOR
NO
REPLACE MAIN PCB
DONE
- CODE NO.
[MZZZ0MOT141]
- CODE NO.
[ASPP0PCB001]

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

3. MAIN CHECKER MOTOR ERROR [E.31] - IN CASE OF NO SIGNAL FROM ENCODER





MAIN CHECKER MOTOR ERROR [E.31]

ENCODER SENSOR TEST — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT CHECKER
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [■□□□] 1P DATUM POINT STATUS
   FND [□■□□] 1P EQUINOTIAL POINT STATUS
   FND [□□■□] 2P DATUM POINT STATUS
   FND [□□□■] 2P EQUINOTIAL POINT STATUS
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK ENCODER SENSOR — NO →

1. RECONNECT CONNECTOR
2. REMOVE DEBRIS ON SENSOR
3. ADJUST POSITION OF SENSOR AND BRACKET

YES

[HOW TO CHECK]

1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET

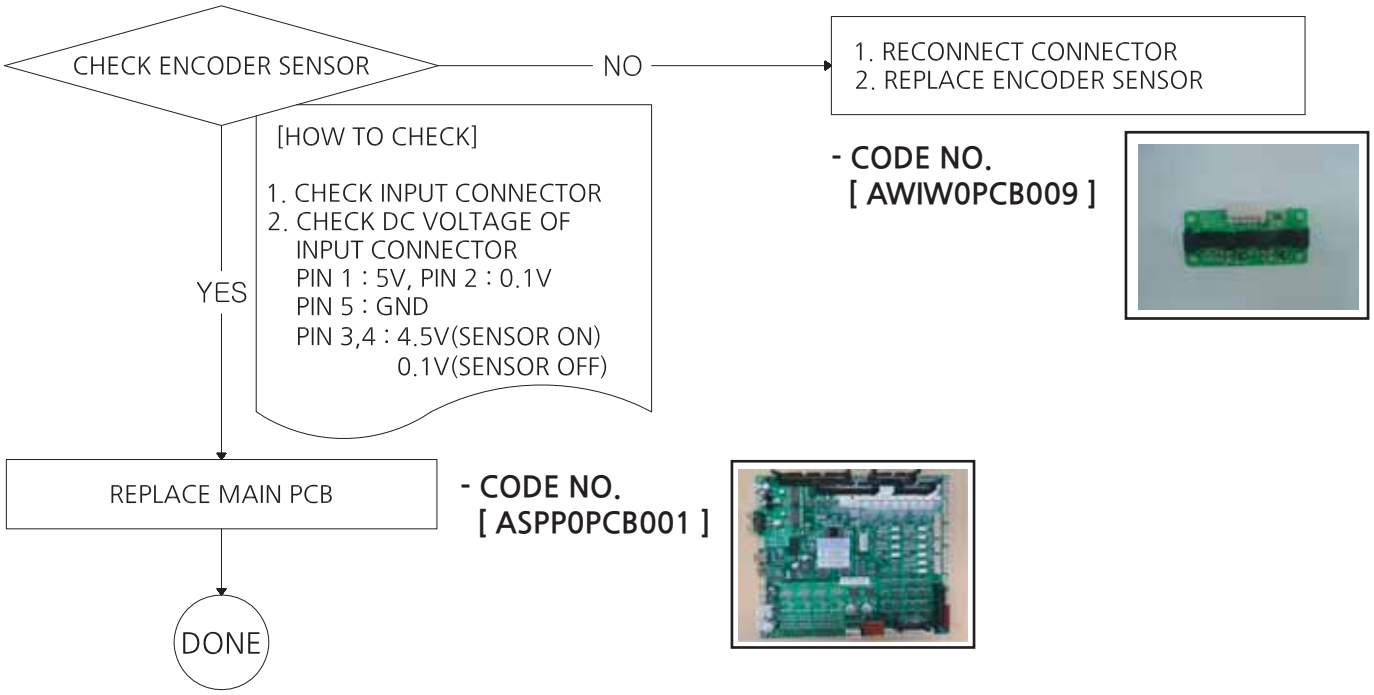
CHECK MAIN PCB — NO →

1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

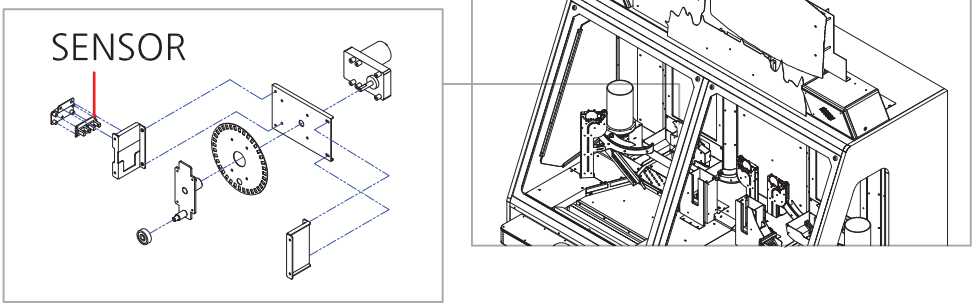
[HOW TO CEHCK]

1. CHECK CONNECTOR CN27
2. CHECK DC VOLTAGE OF CONNECTOR CN 27
   1P) CN27_A PIN 1 : 5V, PIN 2 :0.1V, PIN 5 : GND
   2P) CN27_B PIN 1 : 5V, PIN 2 : 0.1V, PIN 5 : GND
3. CHECK JOIN CONNECTOR


CHECK ENCODER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE ENCODER SENSOR
- CODE NO.
[AWIW0PCB009]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF
INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V
PIN 5 : GND
PIN 3,4 : 4.5V(SENSOR ON)
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

4. MAIN CHECKER SENSOR ERROR [E.35] (BONUS TARGET SENSOR PCB) - SIGNAL OF CHECKER SENSOR KEEPS ON



MAIN CHECKER SENSOR ERROR [E.35]

TEST MAIN CHECKER SENSOR
- YES → DONE
- NO →

[HOW TO TEST]

1. TEST MODE > MOT CHECKER
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK IF CHECKER LED IS ON WHEN BALL IS SHOT
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK MAIN CHECKER SENSOR
- NO →

1. RECONNECT CONNECTOR
2. REMOVE DEBRIS ON SENSOR
3. ADJUST POSITION OF SENSOR
4. REMOVE BALLS

YES →

[HOW TO CHECK]

1. CHECK CONNECTOR
2. CHECK SENSOR (DEBRIS OR ANGLE)
3. CHECK IF BALLS ARE INSIDE OF CHECKER

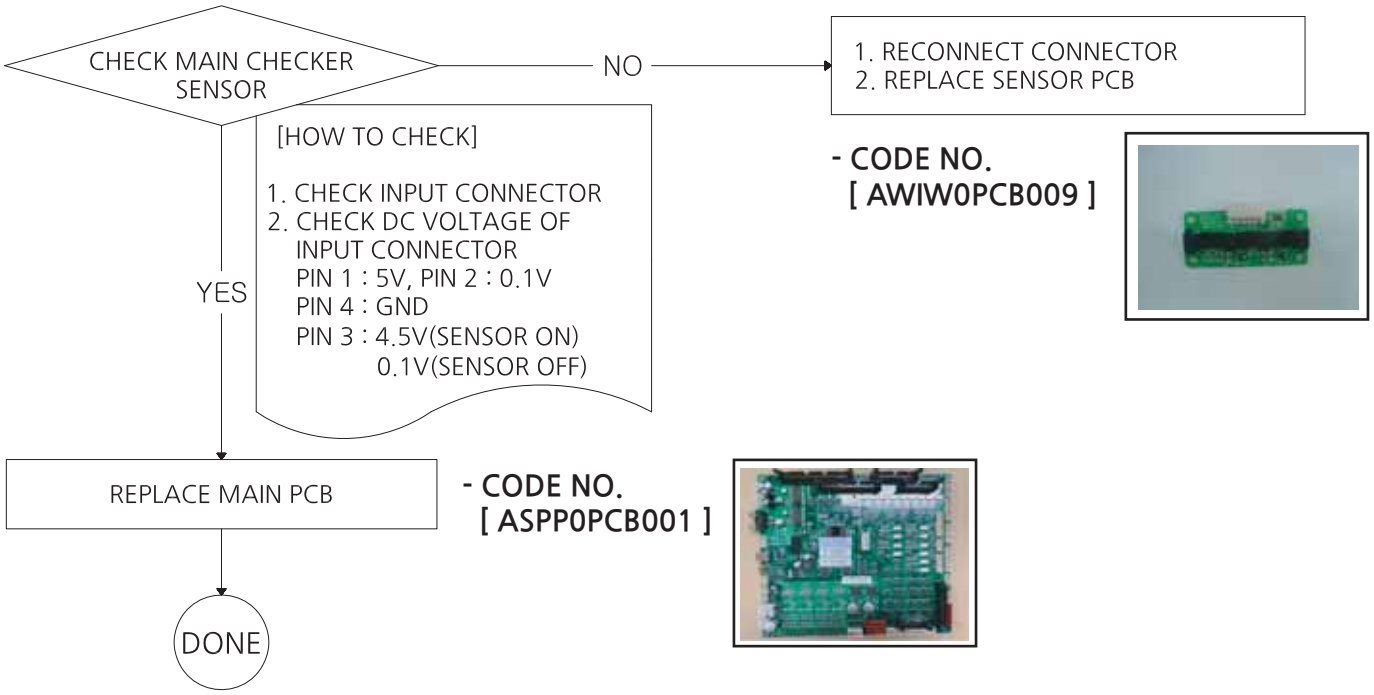
CHECK MAIN PCB
- NO →

1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES →

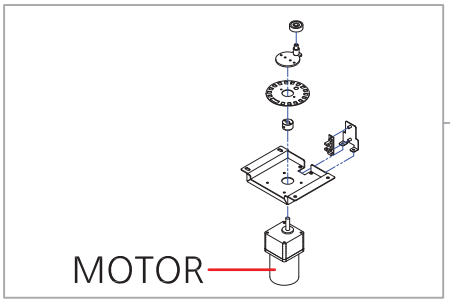
[HOW TO CEHCK]

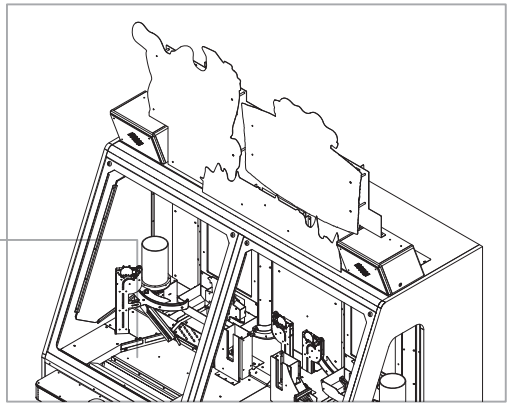
1. CHECK CONNECTOR CN27
2. CHECK DC VOLTAGE OF CONNECTOR CN 27
   1P) CN27_A PIN 6 : 5V, PIN 7 :0.1V, PIN 9 : GND
   2P) CN27_B PIN 6 : 5V, PIN 7 : 0.1V, PIN 9 : GND
3. CHECK JOIN CONNECTOR


CHECK MAIN CHECKER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE SENSOR PCB
- CODE NO.
[AWIW0PCB009]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V
PIN 4 : GND
PIN 3 : 4.5V(SENSOR ON)
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

5. PUSHER MOTOR ERROR [E.41]
- IN CASE OF MOTOR PROBLEM





PUSHER MOTOR ERROR [E.41]

TEST PUSHER MOTOR — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT PUSHER
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. USE ANALOG TESTER ONLY WHEN YOU CHECK DC VOLTAGE AT MOT PUSHER

CHECK PUSHER MOTOR — NO →
1. RECONNECT CONNECTOR
2. REASSEMBLE OR REPLACE

YES

[HOW TO CHECK]

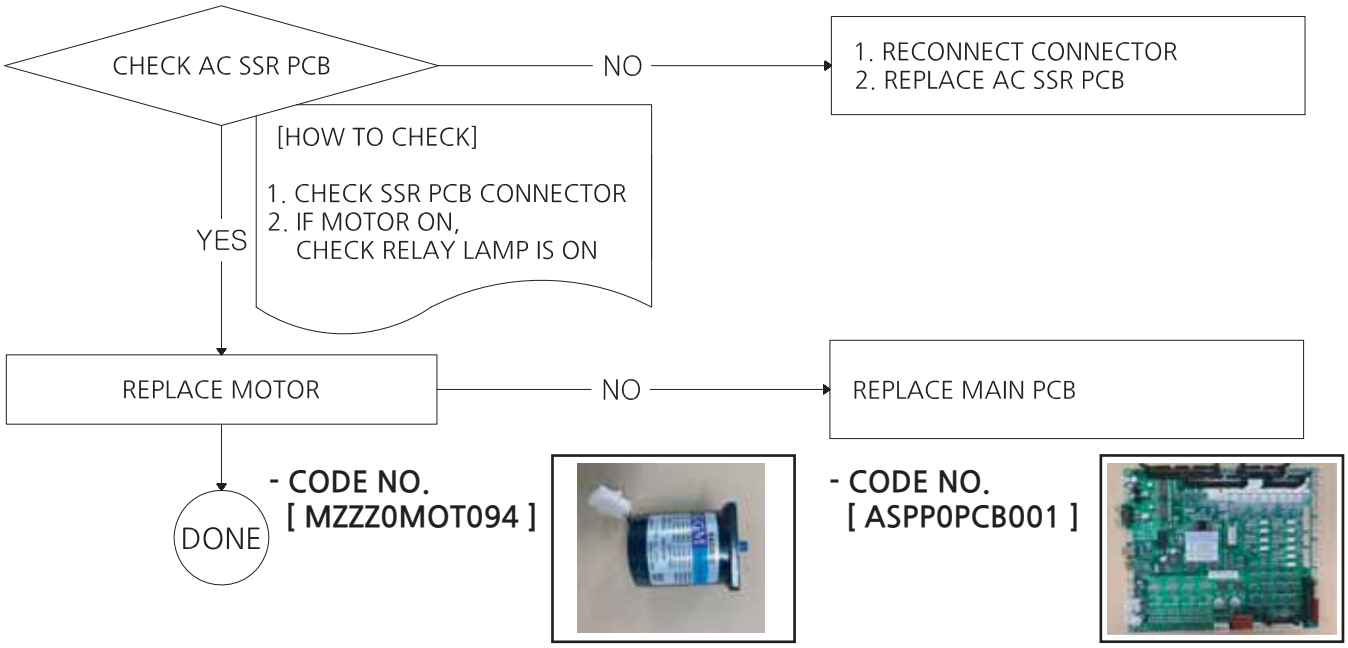
1. CHECK MOTOR CONNECTOR
2. CHECK IF MOTOR OR BOLT IS FIXED IN PLACE
3. CHECK CONNECTOR OF AC MOTOR CONDENSER
4. CHECK JOIN CONNECTOR

CHECK MAIN PCB — NO →
1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

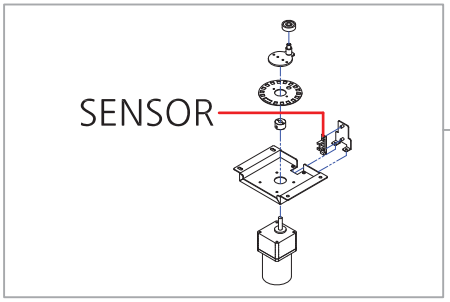
[HOW TO CEHCK]

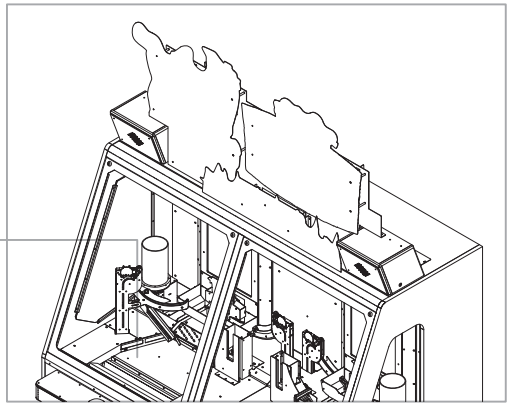
1. CHECK CONNECTOR CN18
2. CHECK DC VOLTAGE OF CONNECTOR CN 18 WHEN MOTOR IS ON
   1P) CHECK IF 12V ON PIN 1,2
   2P) CHECK IF 12V ON PIN 7,8


CHECK AC SSR PCB
NO
1. RECONNECT CONNECTOR
2. REPLACE AC SSR PCB
[HOW TO CHECK]
1. CHECK SSR PCB CONNECTOR
2. IF MOTOR ON,
CHECK RELAY LAMP IS ON
YES
REPLACE MOTOR
NO
REPLACE MAIN PCB
DONE
- CODE NO.
[MZZZ0MOT094]
- CODE NO.
[ASPP0PCB001]

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

6. PUSHER SENSOR ERROR [E.41]
- IN CASE OF SENSOR PROBLEM





PUSHER SENSOR ERROR [E.41]

TEST PUSHER MOTOR — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT PUSHER
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [■□□□] 1P SENSOR STATUS (0,1)
   FND [□□■□] 2P SENSOR STATUS (0,1)
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK PUSHER ENCODER SENSOR PCB — NO →

1. RECONNECT CONNECTOR
2. REMOVE DEBRIS ON SENSOR
3. ADJUST POSITION OF SENSOR AND BRACKET

YES

[HOW TO CHECK]

1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET

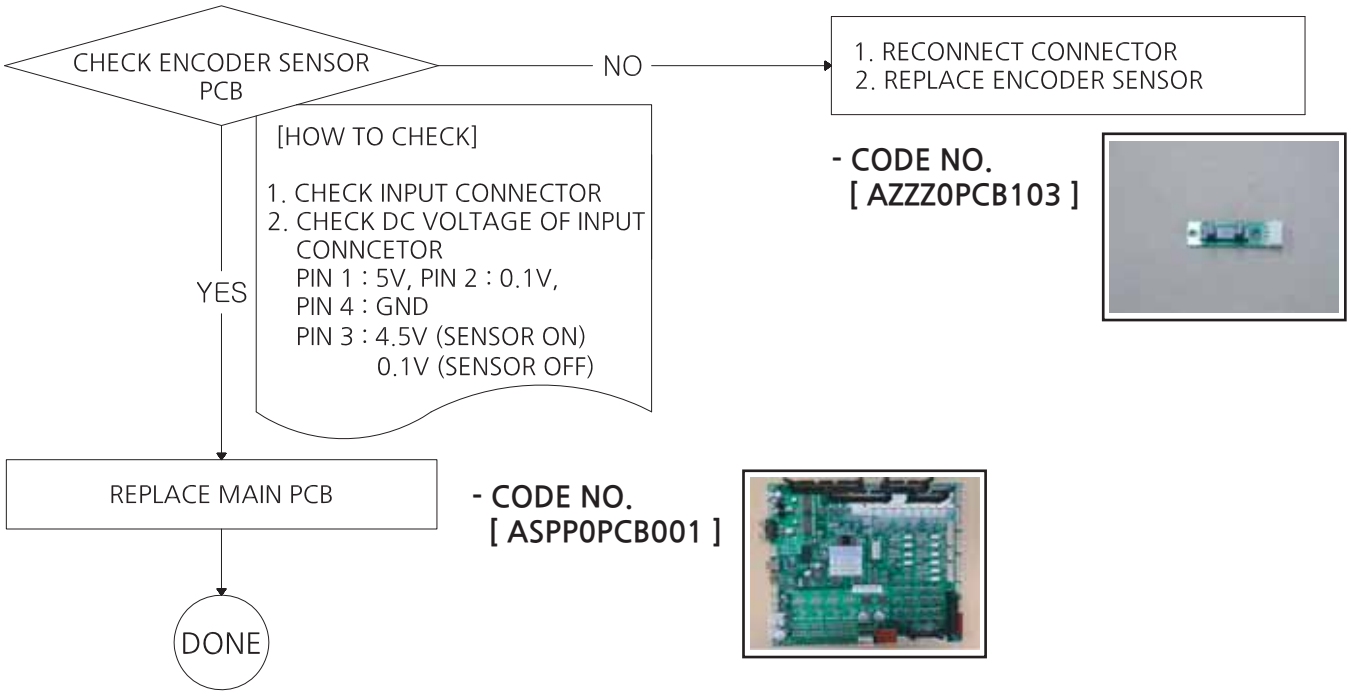
CHECK MAIN PCB — NO →

1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

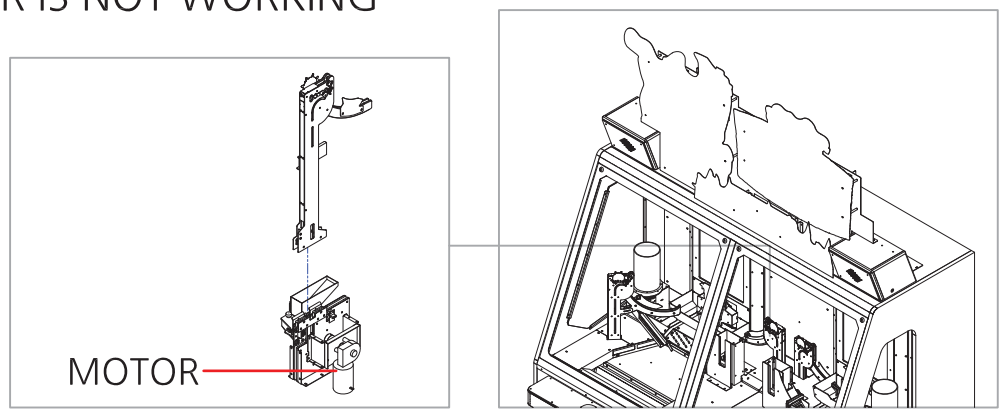
[HOW TO CEHCK]

1. CHECK CONNECTOR CN18
2. CHECK DC VOLTAGE OF CONNECTOR CN 18
   1P) PIN 3 : 5V, PIN 4 : 0.1V
   PIN 6 : GND
   2P) PIN 9 : 5V, PIN 10 : 0.1V
   PIN 12 : GND
3. CHECK JOIN CONNECTOR


CHECK ENCODER SENSOR PCB
NO
1. RECONNECT CONNECTOR
2. REPLACE ENCODER SENSOR
- CODE NO.
[AZZZ0PCB103]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF INPUT CONNCETOR
PIN 1 : 5V, PIN 2 : 0.1V,
PIN 4 : GND
PIN 3 : 4.5V (SENSOR ON)
0.1V (SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

7. BONUS BALL SHOOTING MOTOR ERROR [E.51] - IN CASE MOTOR IS NOT WORKING

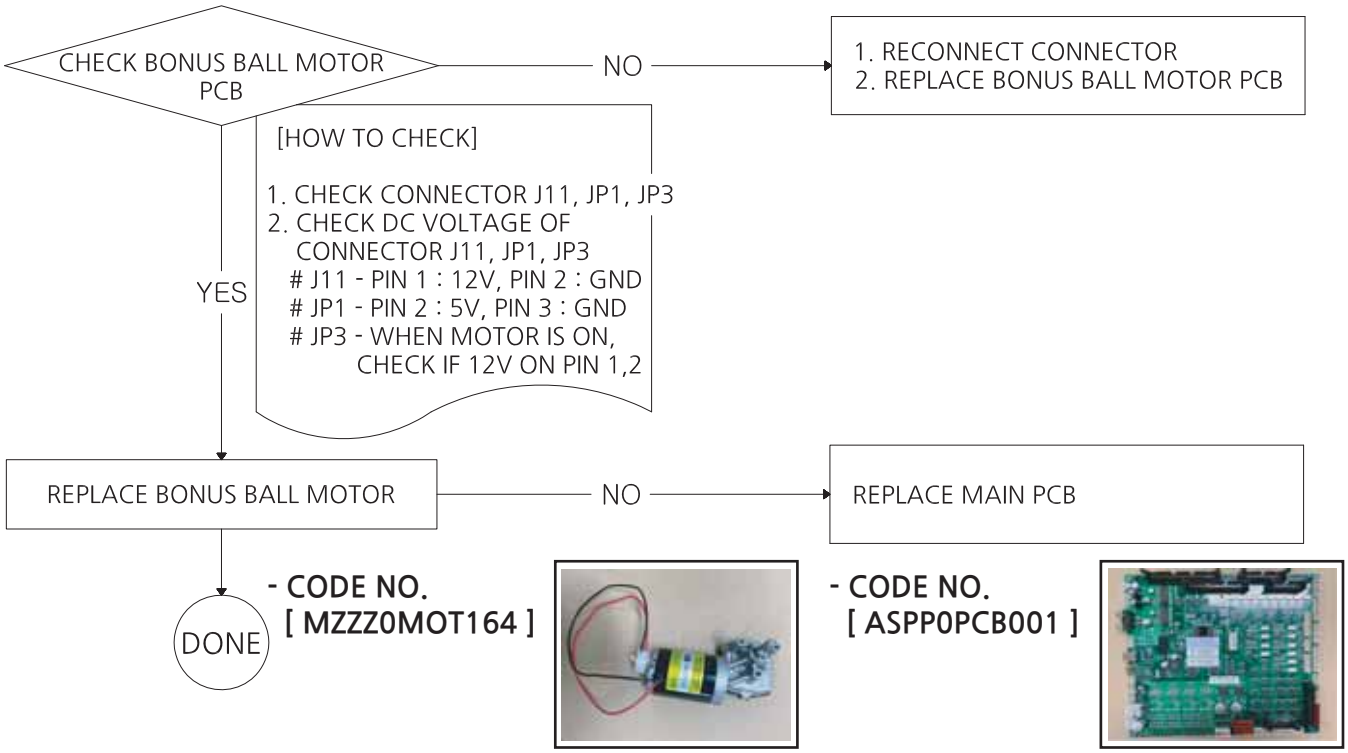


BONUS BALL SHOOTING MOTOR ERROR [E.51]

TEST MOTOR
YES → DONE
NO →
[HOW TO TEST]
1. TEST MODE >MOT BNS BALL
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON

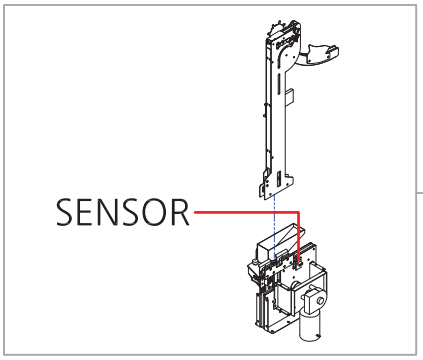
CHECK BONUS BALL SHOOTING MOTOR
NO →
1. RECONNECT CONNECTOR
2. REASSEMBLE OR REPLACE
3. REMOVE DEBRIS(SCREWS) OR DEFECTIVE BALL
YES →
[HOW TO CHECK]
1. CHECK MOTOR CONNCETOR
2. CHECK IF MOTOR OR BOLT IS FIXED IN PLACE
3. CHECK IF THERE IS DEBRIS (SCREWS) OR DEFECTIVE BALL

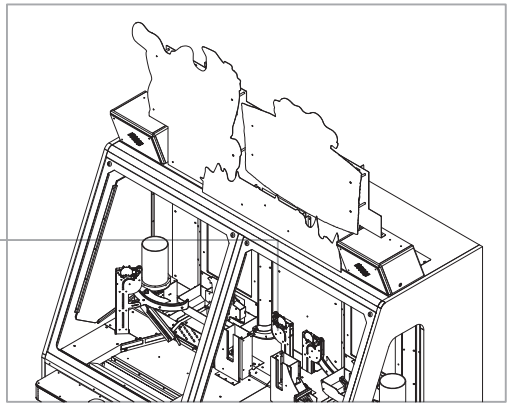
CHECK MAIN PCB
NO →
1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB
YES →
[HOW TO CEHCK]
1. CHECK CONNECTOR CN30
2. CHECK DC VOLTAGE OF CONNECTOR CN 30
1P) CN30_A PIN 10 : 5V, PIN 8 : GND
2P) CN30_B PIN 10 : 5V, PIN 8 : GND


CHECK BONUS BALL MOTOR PCB
NO
1. RECONNECT CONNECTOR
2. REPLACE BONUS BALL MOTOR PCB
[HOW TO CHECK]
1. CHECK CONNECTOR J11, JP1, JP3
2. CHECK DC VOLTAGE OF CONNECTOR J11, JP1, JP3
J11 - PIN 1 : 12V, PIN 2 : GND
JP1 - PIN 2 : 5V, PIN 3 : GND
JP3 - WHEN MOTOR IS ON, CHECK IF 12V ON PIN 1,2
YES
REPLACE BONUS BALL MOTOR
NO
REPLACE MAIN PCB
DONE
- CODE NO.
[MZZZ0MOT164]
- CODE NO.
[ASPP0PCB001]

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

8. BONUS BALL SENSOR ERROR [E.51]
- IN CASE OF DISC ENCODER SENSOR PROBLEM





BONUS BALL SENSOR ERROR [E.51]

TEST SENSOR
- YES → DONE
- NO →

[HOW TO TEST]

1. TEST MODE > MOT BNS BALL
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [□■□□] 1P BOTTOM ENCODER SENSOR
   FND [□□□■] 2P BOTTOM ENCODER SENSOR
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK SENSOR
- NO →
  1. RECONNECT CONNECTOR
  2. REMOVE DEBRIS ON SENSOR
  3. ADJUST POSITION OF SENSOR AND BRACKET
- YES →

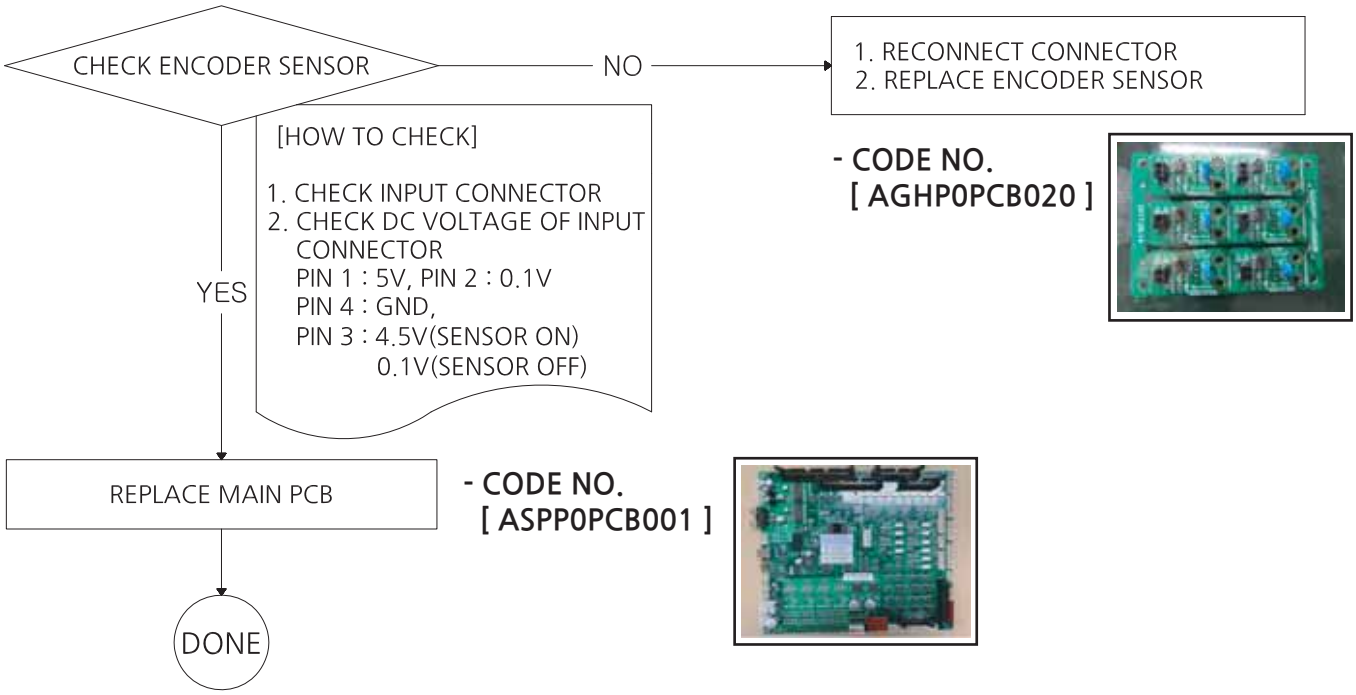
[HOW TO CHECK]

1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET
4. CHECK IF THE BALL ARE STUCK

CHECK MAIN PCB
- NO →
  1. RECONNECT CONNECTOR
  2. REPLACE MAIN PCB
- YES →

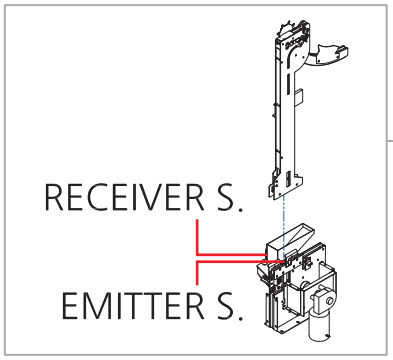
[HOW TO CEHCK]

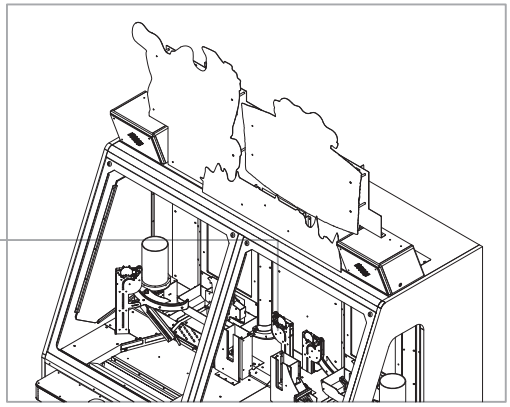
1. CHECK CONNECTOR CN30
2. CHECK DC VOLTAGE OF CONNECTOR CN 30
   1P) CN30_A PIN 1 : 5V,
   PIN 2 : 0.1V, PIN 4 : GND
   2P) CN30_B PIN 1 : 5V,
   PIN 2 : 0.1V, PIN 4 : GND
3. CHECK JOIN CONNECTOR


CHECK ENCODER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE ENCODER SENSOR
- CODE NO.
[AGHP0PCB020]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V
PIN 4 : GND,
PIN 3 : 4.5V(SENSOR ON)
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

9. BONUS BALL SHOOTING ERROR [E.52]
- IN CASE OF BALL EMPTY CHECK EMITTER, RECEIVER SENSOR PROBLEM





BONUS BALL SHOOTING ERROR [E.52]

TEST SENSOR — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT BNS BALL
2. ON/OFF BY SELECT BUTTON
3. CHECK LED COLOR ON LEFT/RIGHT OF MONITOR
   1P LEFT LED: RED ON MAIN SHOOTER
   BALL EMPTY SENSOR SIGNAL
   1P RIGHT LED: GREEN ON BONUS BALL
   BALL EMPTY SENSOR SIGNAL
   2P IS OPPOSITE SIDE FROM 1P
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK SENSOR — NO →
1. RECONNECT CONNECTOR
2. REMOVE DEBRIS ON SENSOR
3. ADJUST POSITION OF SENSOR AND BRACKET
4. RECONNECT F.G WIRE

YES

[HOW TO CHECK]

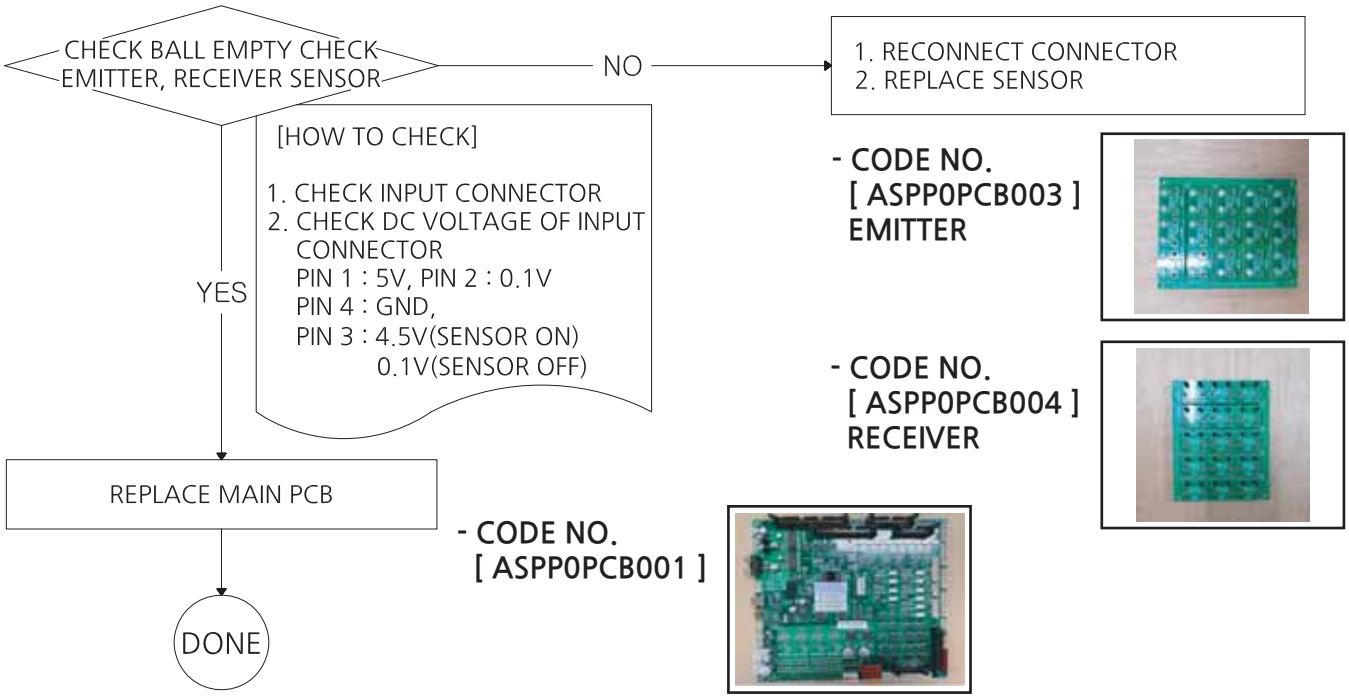
1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET
4. CHECK IF THE BALL ARE STUCK
5. CHECK IF F.G WIRE IS CONNECTED

CHECK MAIN PCB — NO →
1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

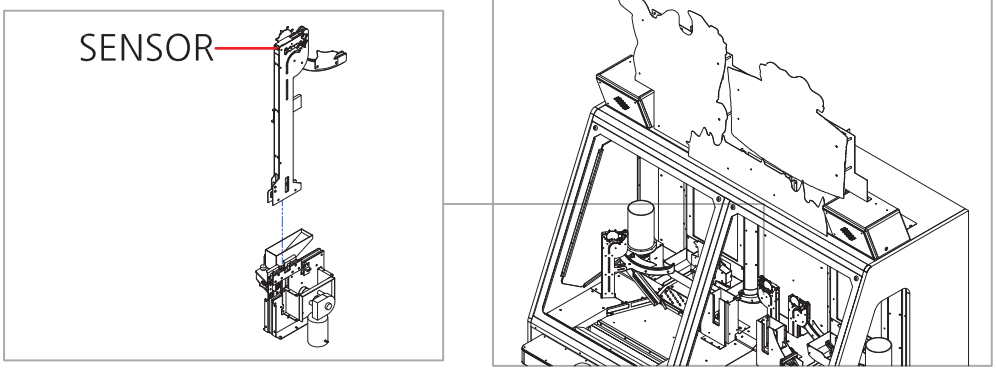
[HOW TO CEHCK]

1. CHECK CONNECTOR CN30
2. CHECK DC VOLTAGE OF CONNECTOR CN 30
   1P) CN30_A PIN 9 : 5V,
   PIN 11 : 0.1V, PIN 17 : GND
   2P) CN30_B PIN 9: 5V,
   PIN 11 : 0.1V, PIN 17 : GND


CHECK BALL EMPTY CHECK
EMITTER, RECEIVER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE SENSOR
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V
PIN 4 : GND,
PIN 3 : 4.5V(SENSOR ON)
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
DONE
- CODE NO.
[ASPP0PCB003]
EMITTER
- CODE NO.
[ASPP0PCB004]
RECEIVER
- CODE NO.
[ASPP0PCB001]

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

10. BONUS BALL SHOOTING ERROR [E.52]
- IN CASE OF TOP SENSOR(SHOOTER) PROBLEM



BONUS BALL SHOOTING ERROR [E.51]

TEST SENSOR — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT BNS BALL
2. ON/OFF BY SELECT BUTTON
   OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [■□□□] 1P UPPER BALL DISPENSING SENSOR
   FND [□□■□] 2P UPPER BALL DISPENSING SENSOR
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK TOP SHOOTER SENSOR — NO →

1. RECONNECT CONNECTOR
2. REMOVE DEBRIS ON SENSOR
3. ADJUST POSITION OF SENSOR AND BRACKET

YES

[HOW TO CHECK]

1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET

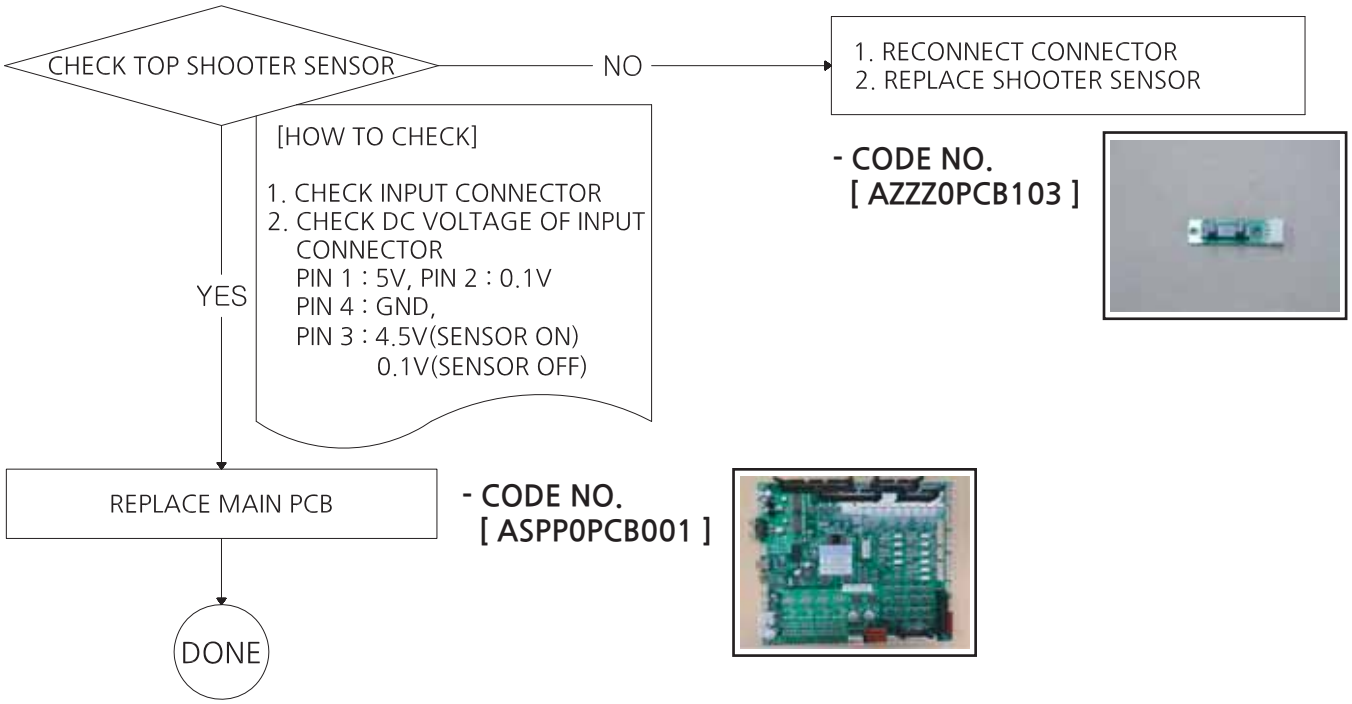
CHECK MAIN PCB — NO →

1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

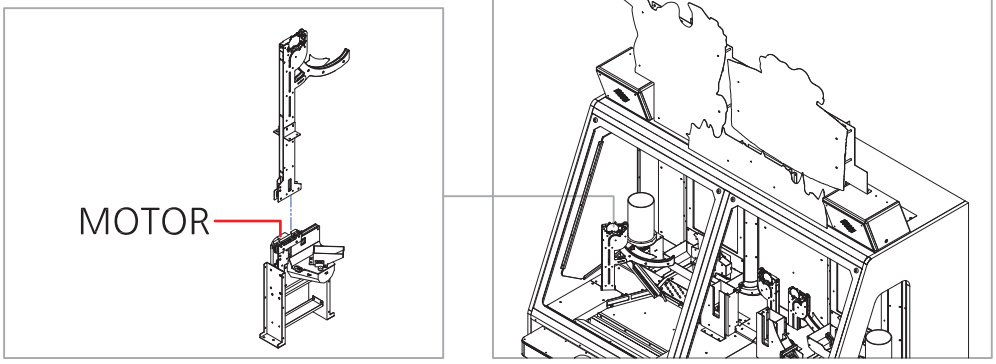
[HOW TO CEHCK]

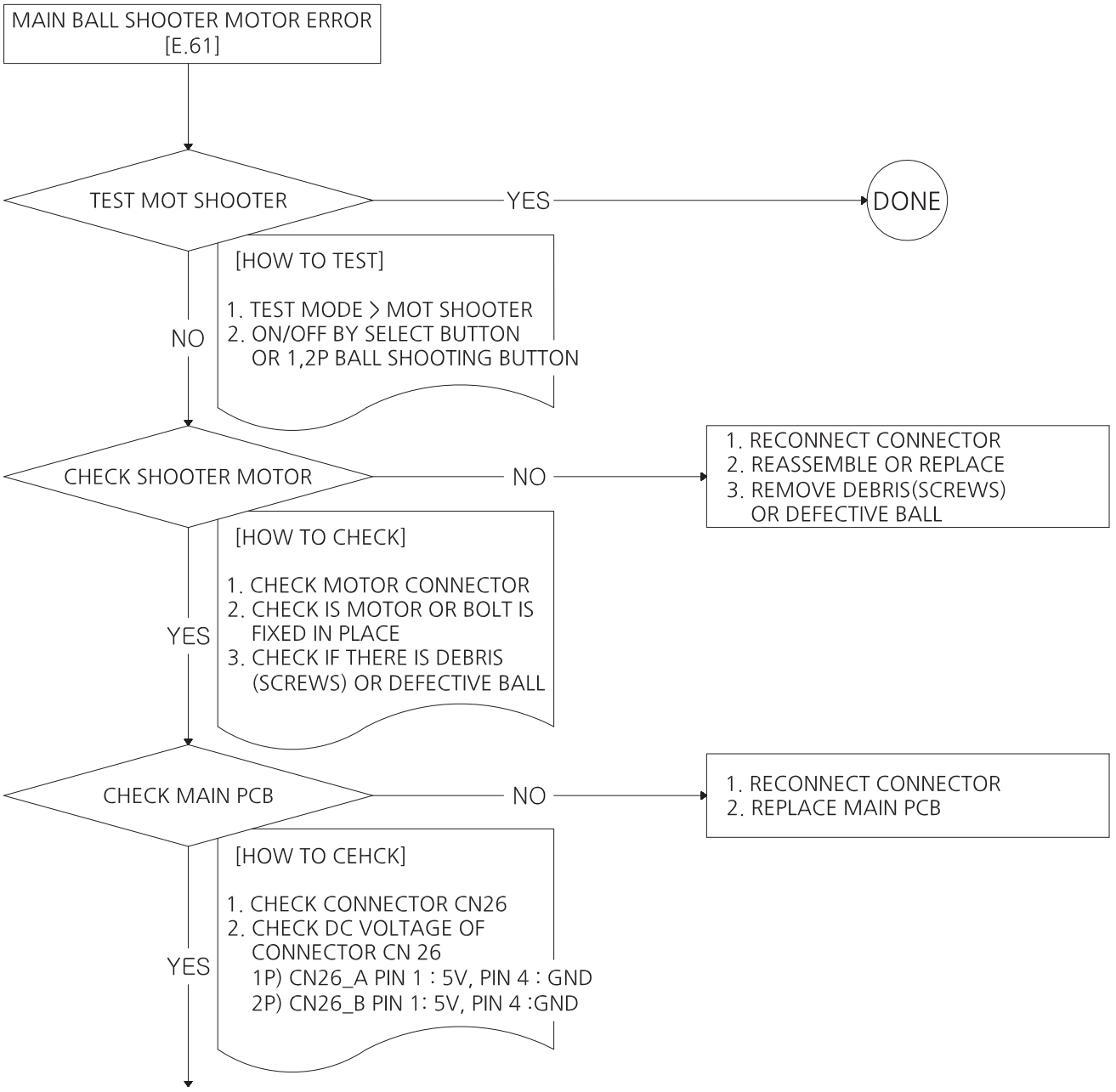
1. CHECK CONNECTOR CN30
2. CHECK DC VOLTAGE OF CONNECTOR CN 30
   1P) CN30_A PIN 1 : 5V,
   PIN 2 : 0.1V, PIN 4 : GND
   2P) CN30_B PIN 10: 5V,
   PIN 2 : 0.1V, PIN 4 : GND

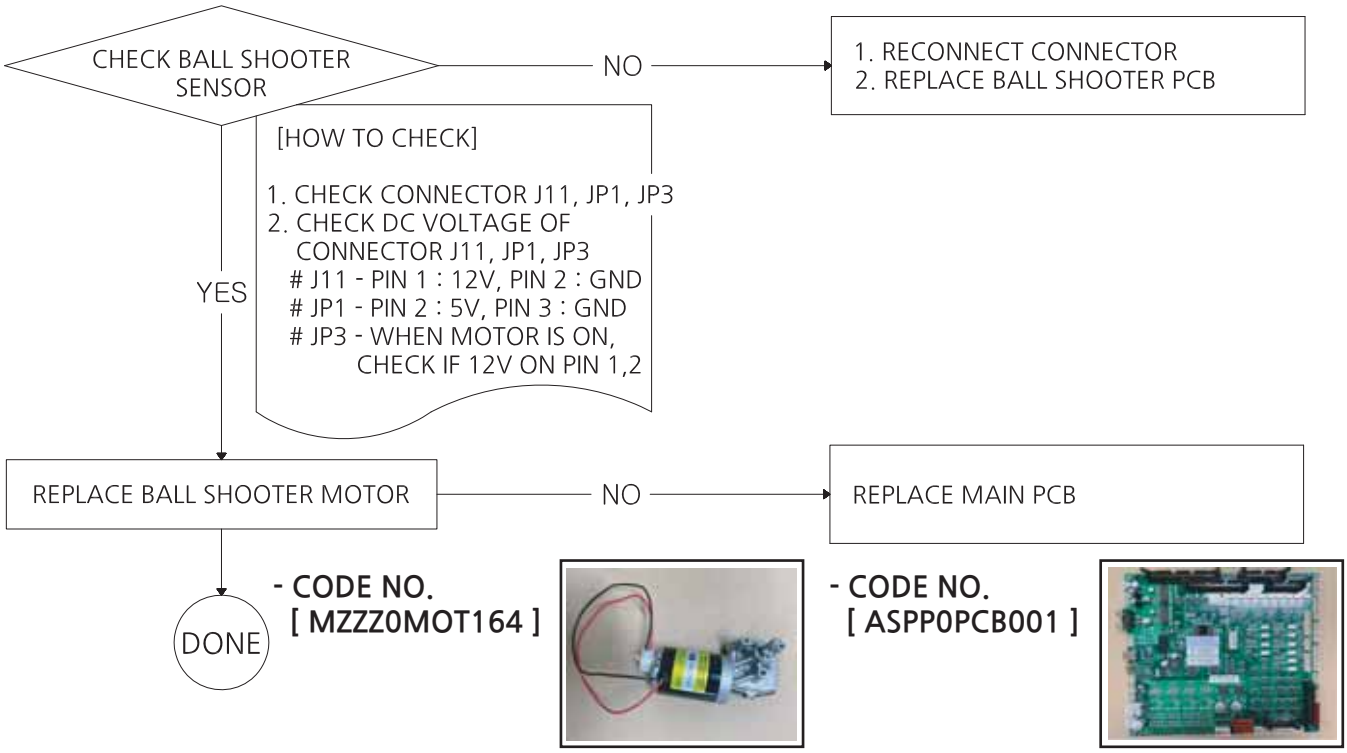

CHECK TOP SHOOTER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE SHOOTER SENSOR
- CODE NO.
[AZZZ0PCB103]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V
PIN 4 : GND,
PIN 3 : 4.5V(SENSOR ON)
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

11. MAIN BALL SHOOTER MOTOR ERROR [E.61]
- IN CASE OF MOTOR PROBLEM

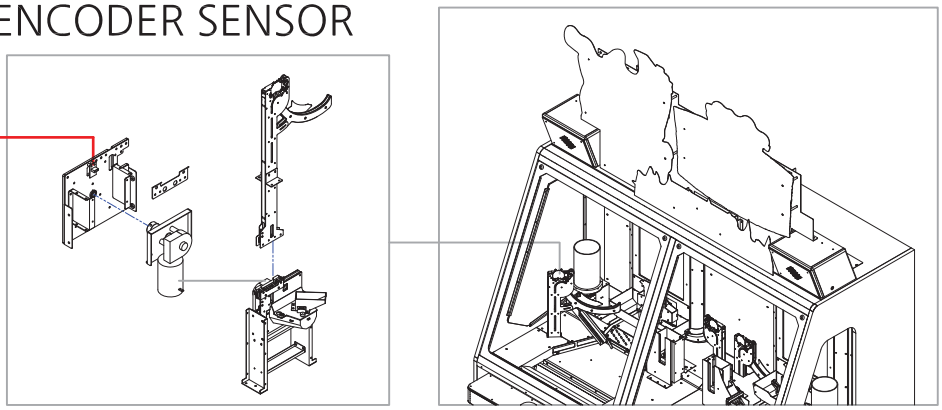





CHECK BALL SHOOTER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE BALL SHOOTER PCB
[HOW TO CHECK]
1. CHECK CONNECTOR J11, JP1, JP3
2. CHECK DC VOLTAGE OF CONNECTOR J11, JP1, JP3
J11 - PIN 1 : 12V, PIN 2 : GND
JP1 - PIN 2 : 5V, PIN 3 : GND
JP3 - WHEN MOTOR IS ON, CHECK IF 12V ON PIN 1,2
YES
REPLACE BALL SHOOTER MOTOR
NO
REPLACE MAIN PCB
DONE
- CODE NO.
[MZZZ0MOT164]
- CODE NO.
[ASPP0PCB001]

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

12. MAIN BALL SHOOTER SENSOR ERROR [E.61]
- IN CASE OF DISC ENCODER SENSOR PROBLEM



MAIN BALL SHOOTER SENSOR ERROR [E.61]

TEST SENSOR — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT SHOOTER
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [□■□□] 1P SENSOR STATUS
   FND [□□□■] 2P SENSOR STATUS
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK SENSOR — NO →

1. RECONNECT CONNECTOR
2. REMOVE DEBRIS ON SENSOR
3. ADJUST POSITION OF SENSOR AND BRACKET

YES

[HOW TO CHECK]

1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET

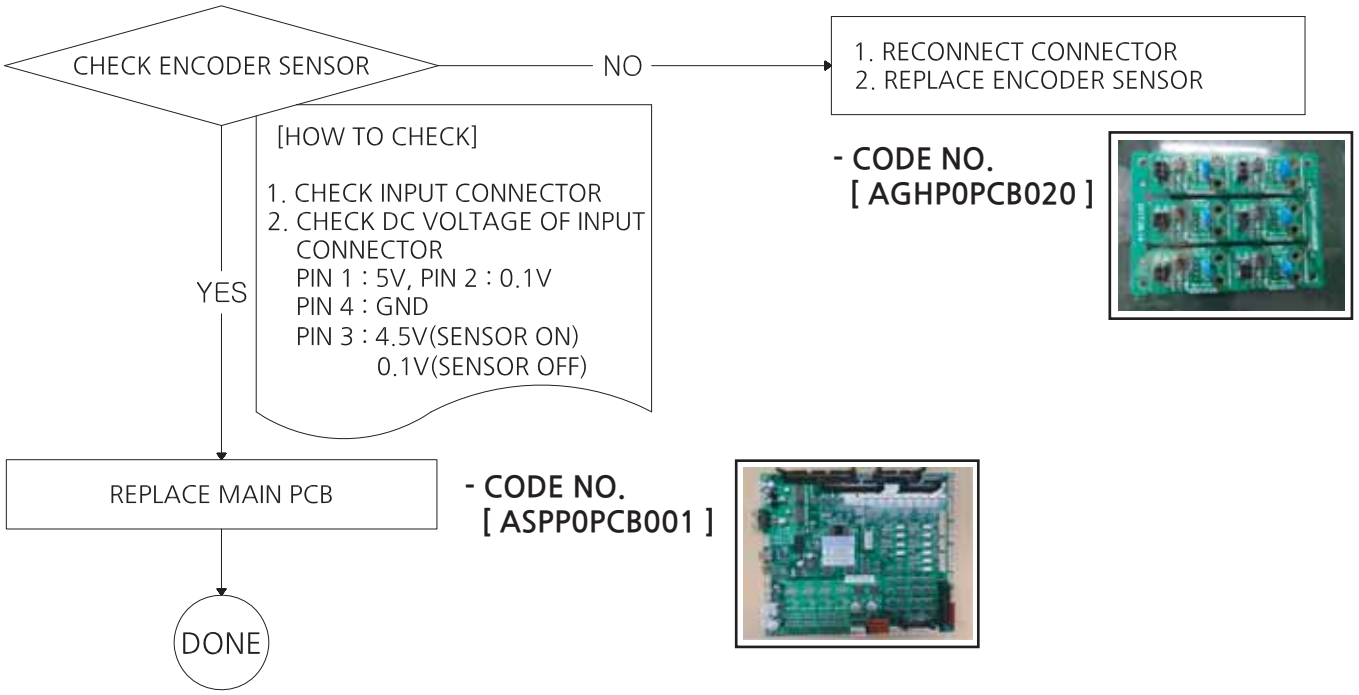
CHECK MAIN PCB — NO →

1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

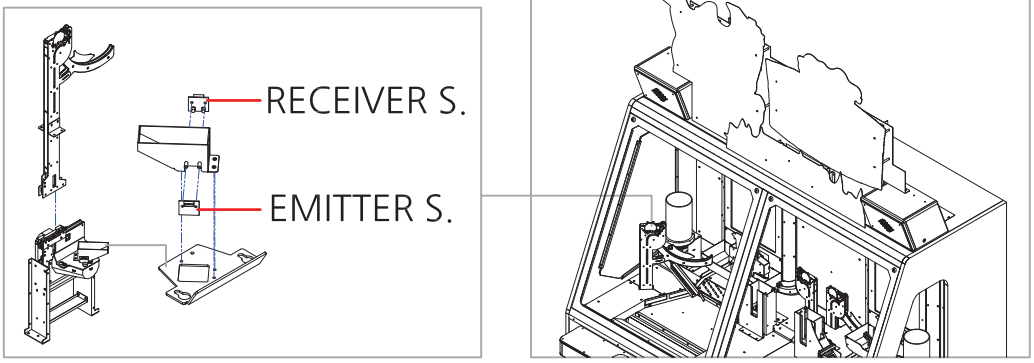
[HOW TO CEHCK]

1. CHECK CONNECTOR CN26
2. CHECK DC VOLTAGE OF CONNECTOR CN 26
   1P) CN26_A PIN 5 : 5V,
   PIN 6 : 0.1V, PIN 9 : GND
   2P) CN26_B PIN 5 : 5V,
   PIN 6 : 0.1V, PIN 9 : GND
3. CHECK JOIN CONNCETOR


CHECK ENCODER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE ENCODER SENSOR
- CODE NO.
[AGHP0PCB020]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V
PIN 4 : GND
PIN 3 : 4.5V(SENSOR ON)
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

13. MAIN BALL SHOOTER ERROR [E.62]
- IN CASE OF BALL EMPTY CHECK EMITTER, RECEIVER SENSOR PROBLEM



MAIN BALL SHOOTING ERROR [E.62]

TEST SENSOR — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT SHOOTER
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK LED COLOR ON LEFT/ RIGHT OF MONITOR
   1P LEFT LED : RED ON MAIN SHOOTER BALL EMPTY SENSOR SIGNAL
   1P RIGHT LED : GREEN ON BONUS BALL BALL EMPTY SENSOR SIGNAL
   2P IS OPPOSITE SIDE FROM 1P
4. CHECK DC VOLTAGE FROM INPUT TEST

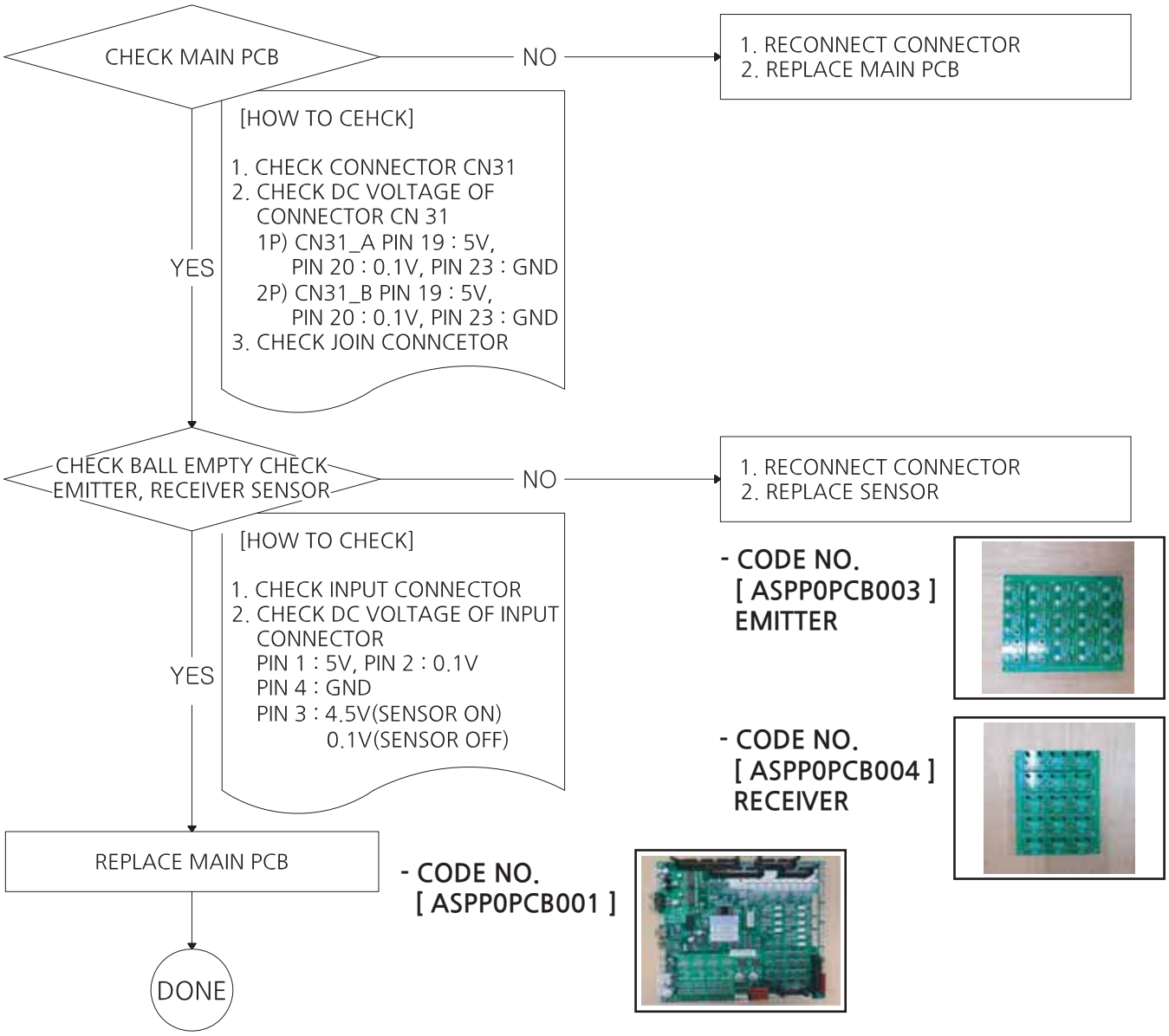
CHECK SENSOR — NO →

1. RECONNECT CONNECTOR
2. REMOVE DEBRIS ON SENSOR
3. ADJUST POSITION OF SENSOR AND BRACKET
4. RECONNECT F.G WIRE

YES

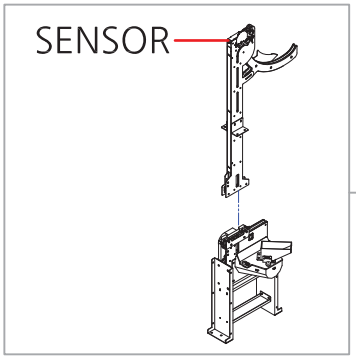
[HOW TO CHECK]

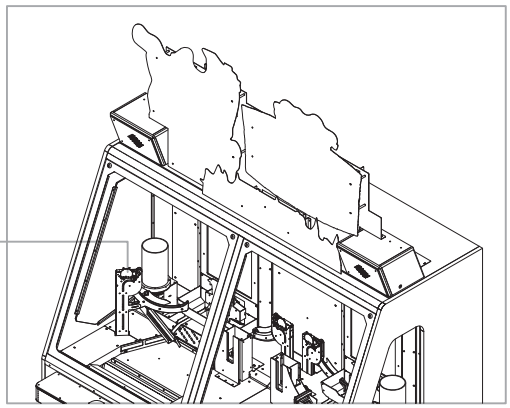
1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET
4. CHECK IF THE BALLS ARE STUCK
5. CHECK IF F.G WIRE IS CONNECTED


CHECK MAIN PCB
NO
1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB
[HOW TO CEHCK]
1. CHECK CONNECTOR CN31
2. CHECK DC VOLTAGE OF CONNECTOR CN 31
1P) CN31_A PIN 19 : 5V, PIN 20 : 0.1V, PIN 23 : GND
2P) CN31_B PIN 19 : 5V, PIN 20 : 0.1V, PIN 23 : GND
3. CHECK JOIN CONNCETOR
YES
CHECK BALL EMPTY CHECK EMITTER, RECEIVER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE SENSOR
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V
PIN 4 : GND
PIN 3 : 4.5V(SENSOR ON)
0.1V(SENSOR OFF)
YES
- CODE NO.
[ASPP0PCB003]
EMITTER
- CODE NO.
[ASPP0PCB004]
RECEIVER
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

14. MAIN BALL SHOOTER SENSOR ERROR [E.62]
- IN CASE OF TOP SENSOR(SHOOTER) PROBLEM





MAIN BALL SHOOTER SENSOR ERROR [E.62]

TEST SHOOTER SENSOR — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT SHOOTER
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [□■□□] 1P SENSOR STATUS
   FND [□□□■] 2P SENSOR STATUS
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK TOP SHOOTER SENSOR — NO →
1. RECONNECT CONNECTOR
2. REMOVE DEBRIS ON SENSOR
3. ADJUST POSITION OF SENSOR AND BRACKET

YES

[HOW TO CHECK]

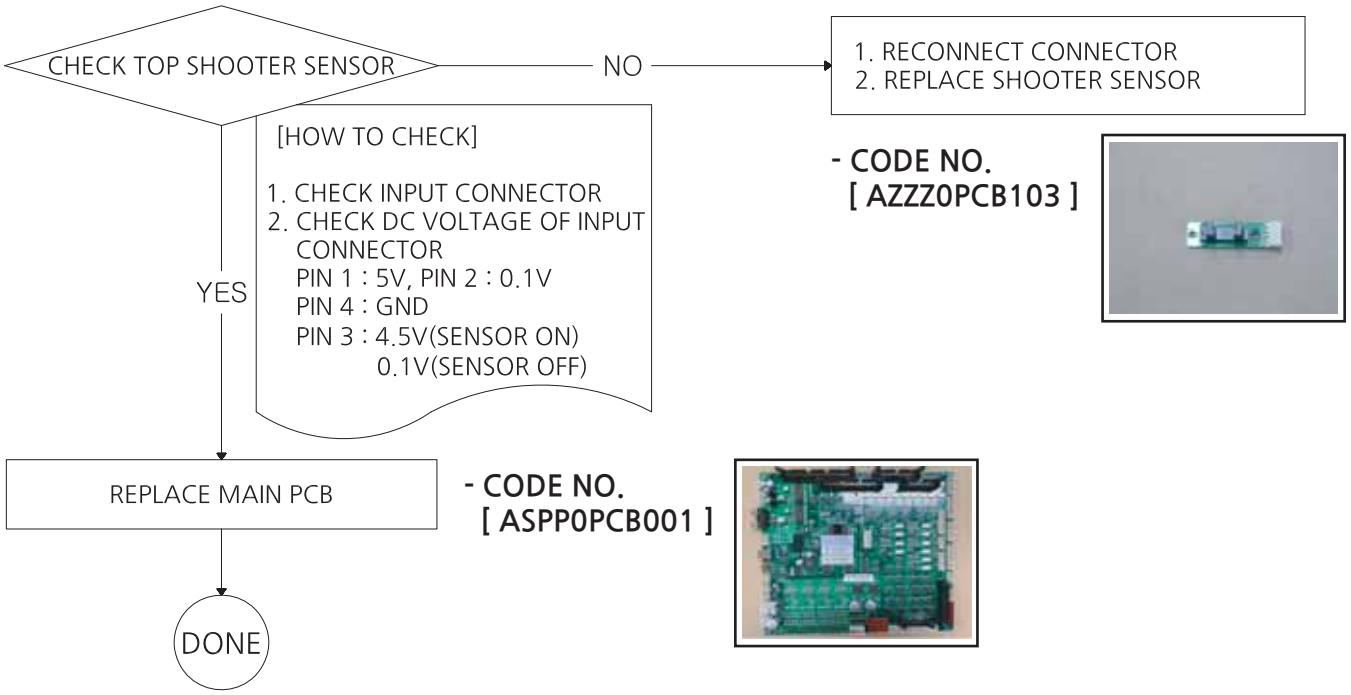
1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET

CHECK MAIN PCB — NO →
1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

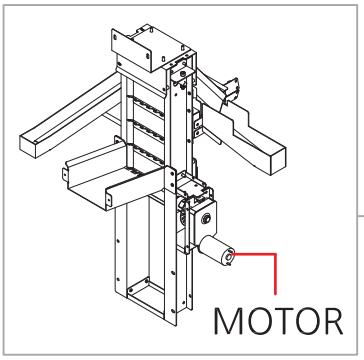
[HOW TO CEHCK]

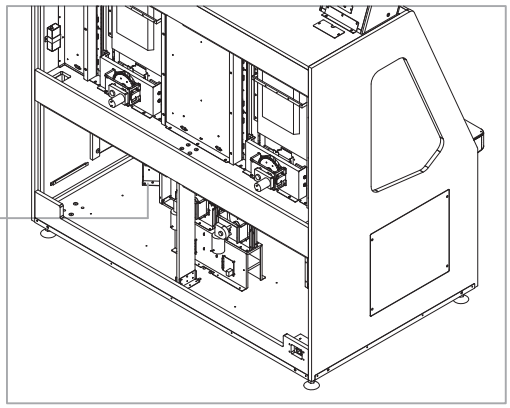
1. CHECK CONNECTOR CN26
2. CHECK DC VOLTAGE OF CONNECTOR CN 26
   1P) CN26_A PIN 5 : 5V,
   PIN 6 : 0.1V, PIN 9 : GND
   2P) CN26_B PIN 5 : 5V,
   PIN 6 : 0.1V, PIN 9 : GND
3. CHECK JOIN CONNCETOR


CHECK TOP SHOOTER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE SHOOTER SENSOR
- CODE NO.
[AZZZ0PCB103]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V
PIN 4 : GND
PIN 3 : 4.5V(SENSOR ON)
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

15. INTERNAL BALL CIRCULATION EV MOTOR ERROR [E.71] - IN CASE OF MOTOR PROBLEM





INTERNAL BALL CIRCULATION EV MOTOR ERROR [E.71]

TEST MOT CIRC ELEV MOTOR — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT CIRC ELEV
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. USE ANALOG TESTER ONLY WHEN YOU CHECK DC VOLTAGE AT MOT CIRC ELEV

CHECK MOT CIRC ELEV MOTOR — NO →

1. RECONNECT CONNECTOR
2. REASSEMBLE OR REPLACE
3. REMOVE DEBRIS(SCREWS) OR DEFECTIVE BALL

YES

[HOW TO CHECK]

1. CHECK MOTOR CONNECTOR
2. CHECK IF MOTOR OR BOLT IS FIXED IN PLACE
3. CHECK IF THERE IS DEBRIS (SCREWS) OR DEFECTIVE BALL
4. IF BALLS ARE STUCK TOO MUCH

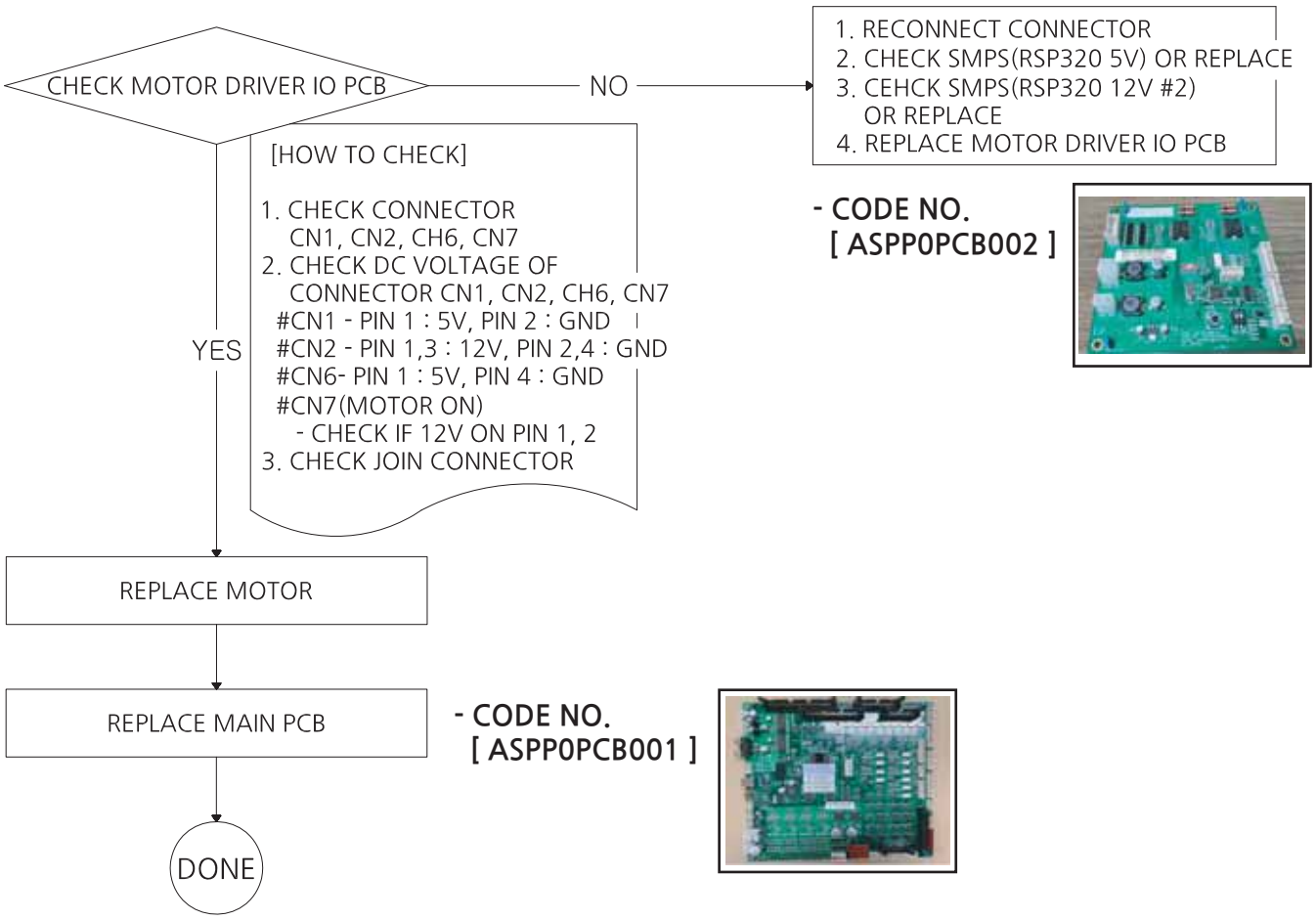
CHECK MAIN PCB — NO →

1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

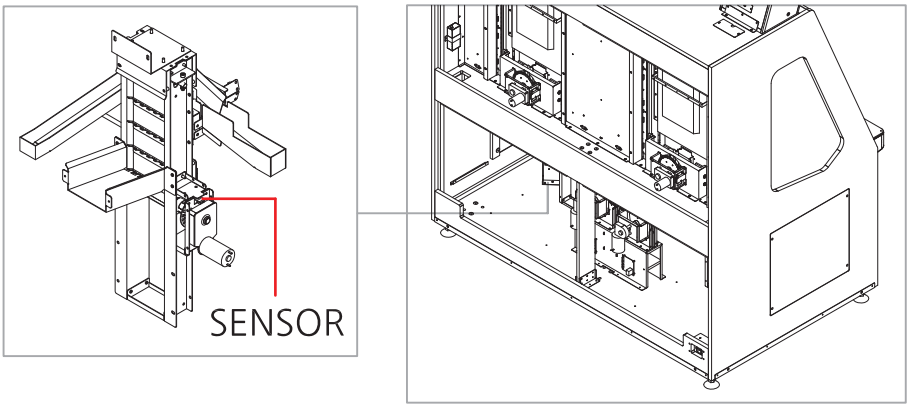
[HOW TO CEHCK]

1. CHECK CONNECTOR CN31
2. CHECK DC VOLTAGE OF CONNECTOR CN31
   1P) CN31_A PIN 1 : 5V, PIN 4 : GND,
   PIN 2,3 : 3.3V(MOTOR ON)
   0.1V(MOTOR OFF)
   2P) CN31_B PIN 1 : 5V, PIN 4 : GND,
   PIN 2,3 : 3.3V(MOTOR ON)
   0.1V(MOTOR OFF)
3. CHECK JOIN CONNCETOR


CHECK MOTOR DRIVER IO PCB
NO
1. RECONNECT CONNECTOR
2. CHECK SMPS(RSP320 5V) OR REPLACE
3. CEHCK SMPS(RSP320 12V #2)
OR REPLACE
4. REPLACE MOTOR DRIVER IO PCB
- CODE NO.
[ASPP0PCB002]
[HOW TO CHECK]
1. CHECK CONNECTOR
CN1, CN2, CH6, CN7
2. CHECK DC VOLTAGE OF
CONNECTOR CN1, CN2, CH6, CN7
#CN1 - PIN 1 : 5V, PIN 2 : GND
#CN2 - PIN 1,3 : 12V, PIN 2,4 : GND
#CN6- PIN 1 : 5V, PIN 4 : GND
#CN7(MOTOR ON)
- CHECK IF 12V ON PIN 1, 2
3. CHECK JOIN CONNECTOR
YES
REPLACE MOTOR
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

16. INTERNAL BALL CIRCULATION EV SENSOR ERROR [E.71] - IN CASE OF ENCODER SENSOR PROBLEM



INTERNAL BALL CIRCULATION EV SENSOR ERROR [E.71]

TEST MOT CIRC ELEV SENSOR
- YES → DONE
- NO

[HOW TO TEST]

1. TEST MODE > MOT CIRC ELEV
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [□■□□] 1P SENSOR STATUS
   FND [□□□■] 2P SENSOR STATUS
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK MOT CIRC ELEV SENSOR
- NO →
  1. RECONNECT CONNECTOR
  2. REMOVE DEBRIS ON SENSOR
  3. ADJUST POSITION OF SENSOR AND BRACKET
- YES

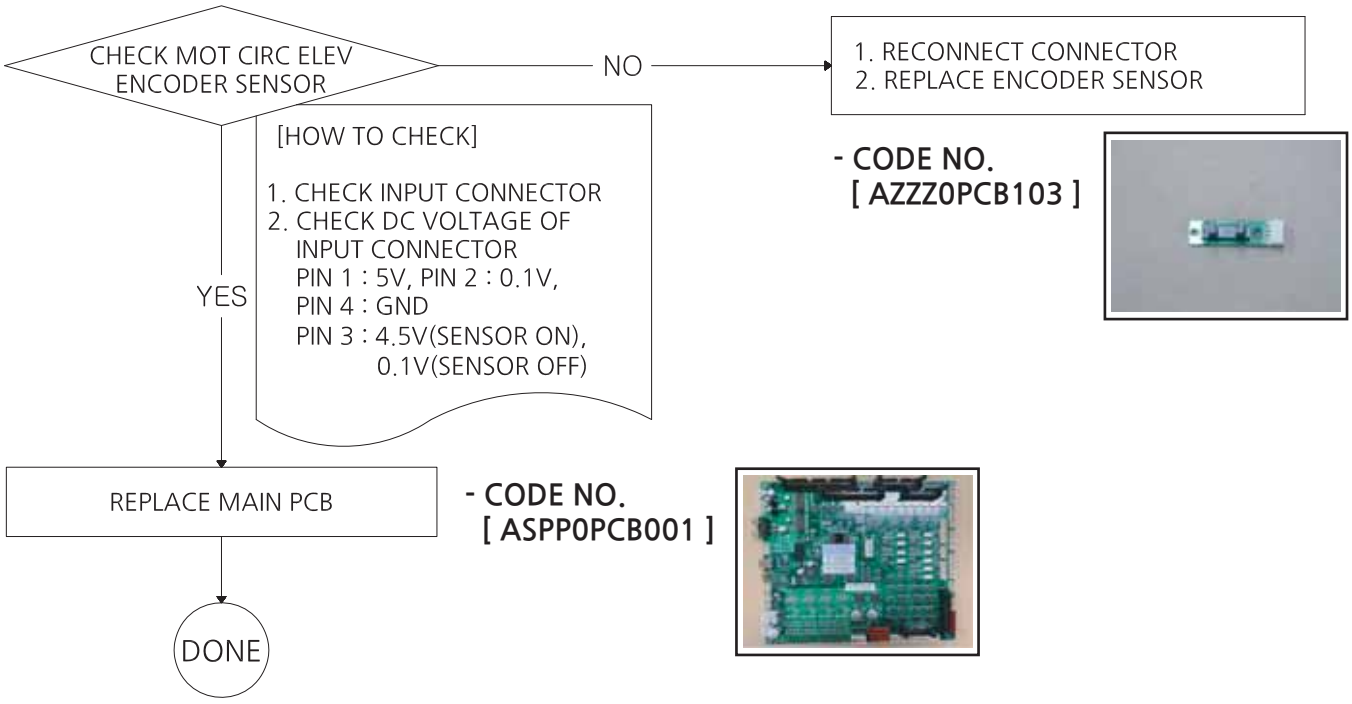
[HOW TO CHECK]

1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET

CHECK MAIN PCB
- NO →
  1. RECONNECT CONNECTOR
  2. REPLACE MAIN PCB
- YES

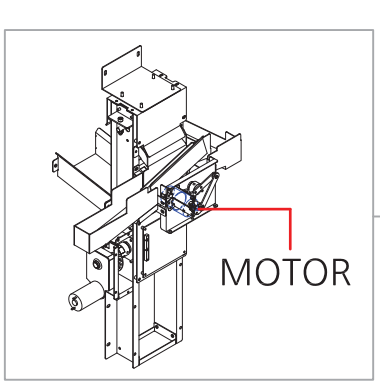
[HOW TO CEHCK]

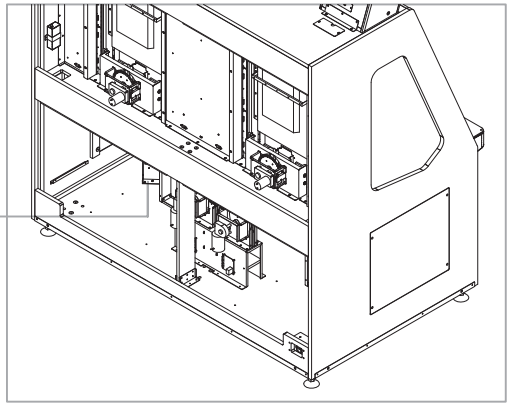
1. CHECK CONNECTOR CN31
2. CHECK DC VOLTAGE OF CONNECTOR CN31
   1P) CN31_A PIN 5 : 5V, PIN 6 : 0.1V, PIN 9 : GND
   2P) CN31_B PIN 5 : 5V, PIN 6 : 0.1V, PIN 9 : GND
3. CHECK JOIN CONNECTOR


CHECK MOT CIRC ELEV ENCODER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE ENCODER SENSOR
- CODE NO.
[AZZZ0PCB103]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V,
PIN 4 : GND
PIN 3 : 4.5V(SENSOR ON),
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

17. INTERNAL BALL CIRCULATION BRIDGE MOTOR ERROR [E.72] - IN CASE OF MOTOR PROBLEM





INTERNAL BALL CIRCULATION BRIDGE MOTOR ERROR [E.72]

TEST MOT CIRC BRID MOTOR

YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT CIRC BRID
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. USE ANALOG TESTER ONLY WHEN YOU CHECK DC VOLTAGE AT MOT CIRC BRID

CHECK MOT CIRC BRID MOTOR

NO →
1. RECONNECT CONNECTOR
2. REASSEMBLE OR REPLACE
3. ADJUST SENSOR AND BRACKET

YES

[HOW TO CHECK]

1. CHECK MOTOR CONNECTOR
2. CHECK IF MOTOR OR BOLT IS FIXED IN PLACE
3. CHECK SENSOR AND BRACKET POSITION

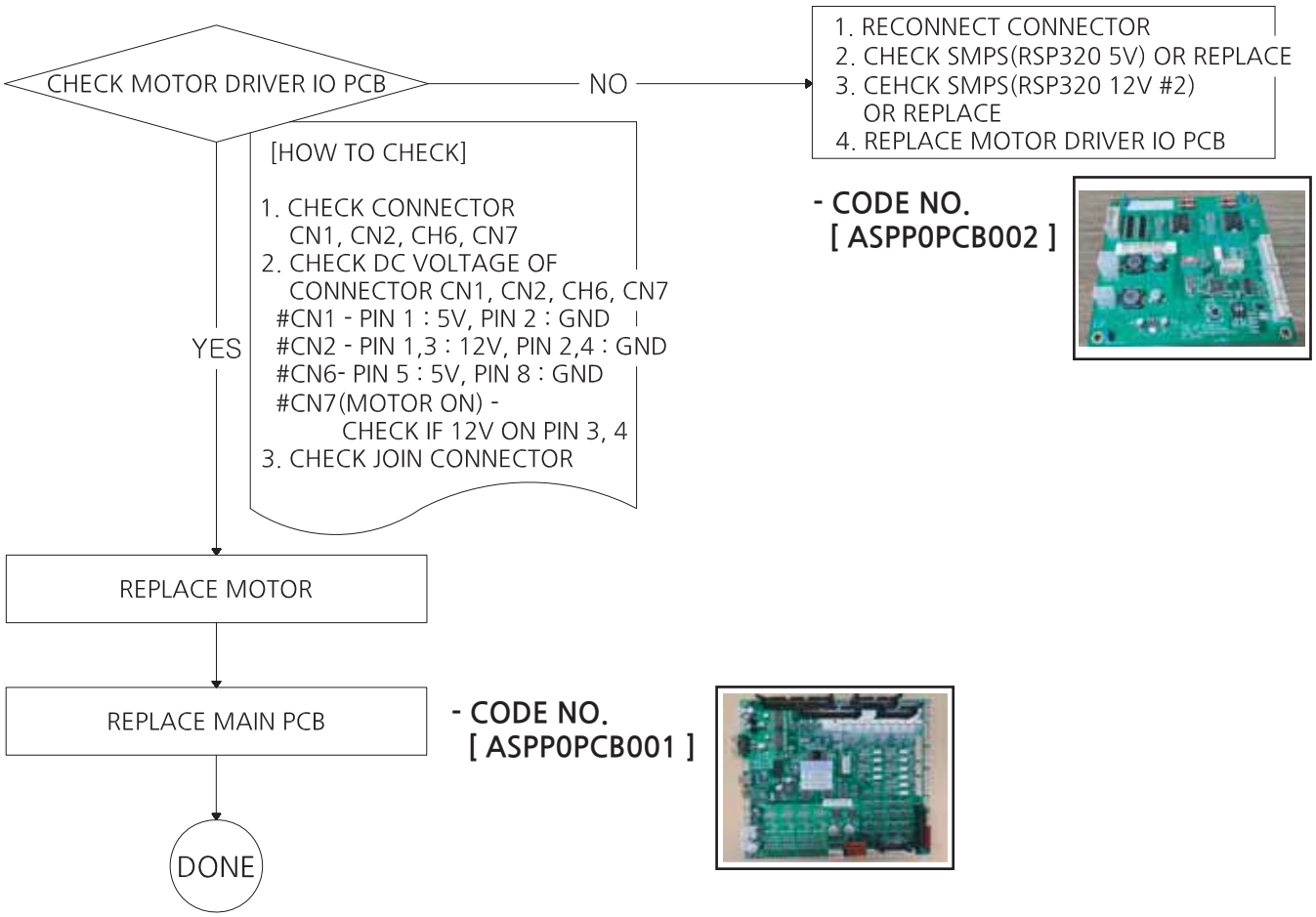
CHECK MAIN PCB

NO →
1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

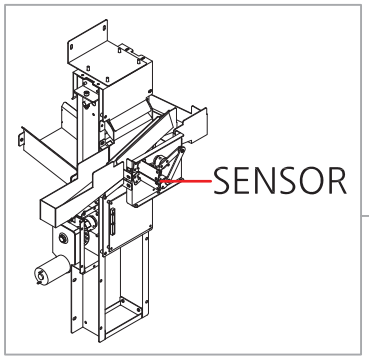
[HOW TO CEHCK]

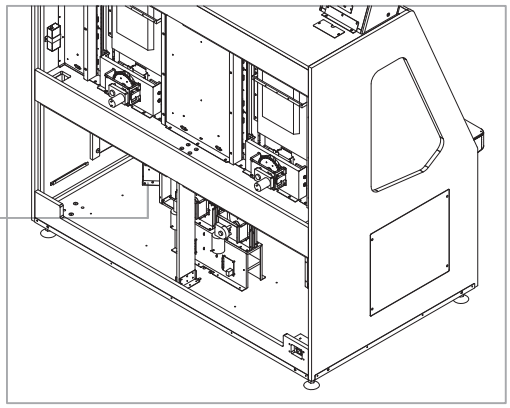
1. CHECK CONNECTOR CN31
2. CHECK DC VOLTAGE OF CONNECTOR CN31
   1P)CN31_A PIN 10 : 5V,
   PIN 13 : GND
   PIN 11, 12 : 3.3V(MOTOR OFF)
   0.1V(MOTOR ON)
   2P)CN31_B PIN 10 : 5V,
   PIN 13 : GND
   PIN 11, 12 : 3.3V(MOTOR OFF)
   0.1V(MOTOR ON)
3. CHECK JOIN CONNECTOR


CHECK MOTOR DRIVER IO PCB
NO
1. RECONNECT CONNECTOR
2. CHECK SMPS(RSP320 5V) OR REPLACE
3. CEHCK SMPS(RSP320 12V #2)
OR REPLACE
4. REPLACE MOTOR DRIVER IO PCB
- CODE NO.
[ASPP0PCB002]
YES
[HOW TO CHECK]
1. CHECK CONNECTOR
CN1, CN2, CH6, CN7
2. CHECK DC VOLTAGE OF
CONNECTOR CN1, CN2, CH6, CN7
#CN1 - PIN 1 : 5V, PIN 2 : GND
#CN2 - PIN 1,3 : 12V, PIN 2,4 : GND
#CN6- PIN 5 : 5V, PIN 8 : GND
#CN7(MOTOR ON) -
CHECK IF 12V ON PIN 3, 4
3. CHECK JOIN CONNECTOR
REPLACE MOTOR
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

18. INTERNAL BALL CIRCULATION BRIDGE SENSOR ERROR [E.72] - IN CASE OF SENSOR PROBLEM





INTERNAL BALL CIRCULATION BRIDGE SENSOR ERROR [E.72]

TEST MOT CIRC BRID SENSOR

YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT CIRC BRID
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [□■□□] 1P SENSOR STATUS
   FND [□□□■] 2P SENSOR STATUS
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK MOT CIRC BRID ENCODER SENSOR

NO →
1. RECONNECT CONNECTOR
2. REMOVE DEBRIS ON SENSOR
3. ADJUST POSITION OF SENSOR AND BRACKET

YES

[HOW TO CHECK]

1. CHECK SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON SENSOR OR BRACKET
3. CHECK THE POSITION OF ENCODER SENSOR AND BRACKET

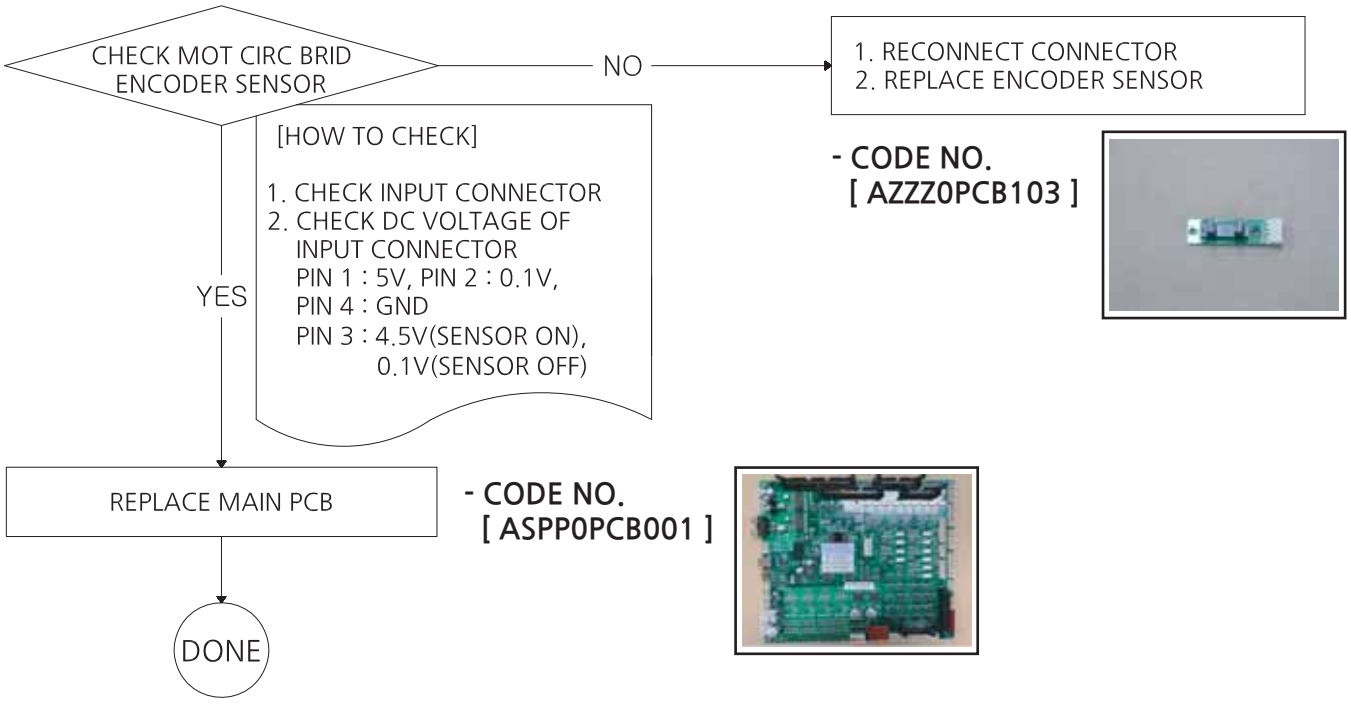
CHECK MAIN PCB

NO →
1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

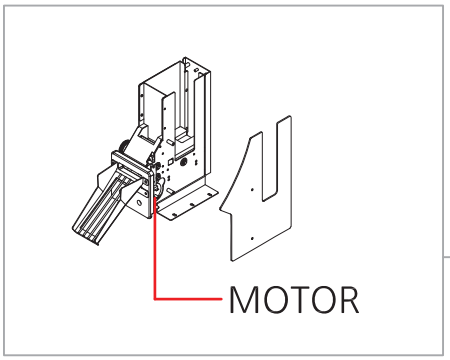
[HOW TO CEHCK]

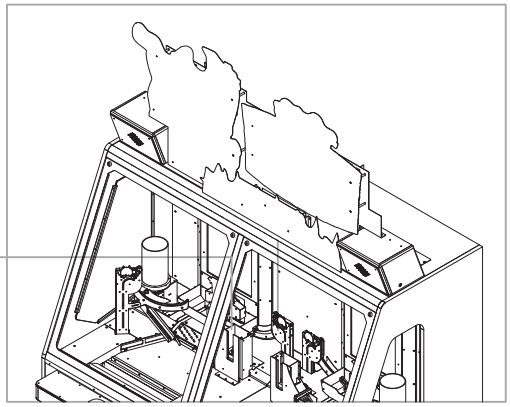
1. CHECK CONNECTOR CN31
2. CHECK DC VOLTAGE OF CONNECTOR CN31
   1P) CN31_A PIN 14 : 5V,
   PIN 15 : 0.1V,PIN 18 : GND
   2P) CN31_B PIN 14 : 5V,
   PIN 15 : 0.1V, PIN 18 : GND
3. CHECK JOIN CONNECTOR


CHECK MOT CIRC BRID
ENCODER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE ENCODER SENSOR
- CODE NO.
[AZZZ0PCB103]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF
INPUT CONNECTOR
PIN 1 : 5V, PIN 2 : 0.1V,
PIN 4 : GND
PIN 3 : 4.5V(SENSOR ON),
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

19. CARD DISPENSER MOTOR ERROR [E.81]
- IN CASE OF MOTOR PROBLEM





CARD DISPENSER MOTOR ERROR [E.81]

TEST CARD DISPENSER
- YES → DONE
- NO →

[HOW TO TEST]

1. TEST MODE > CARD DISPENS
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON

CHECK CARD DISPENSER MOTOR
- NO → 1. RECONNECT CONNECTOR 2. REASSEMBLE OR REPLACE
- YES →

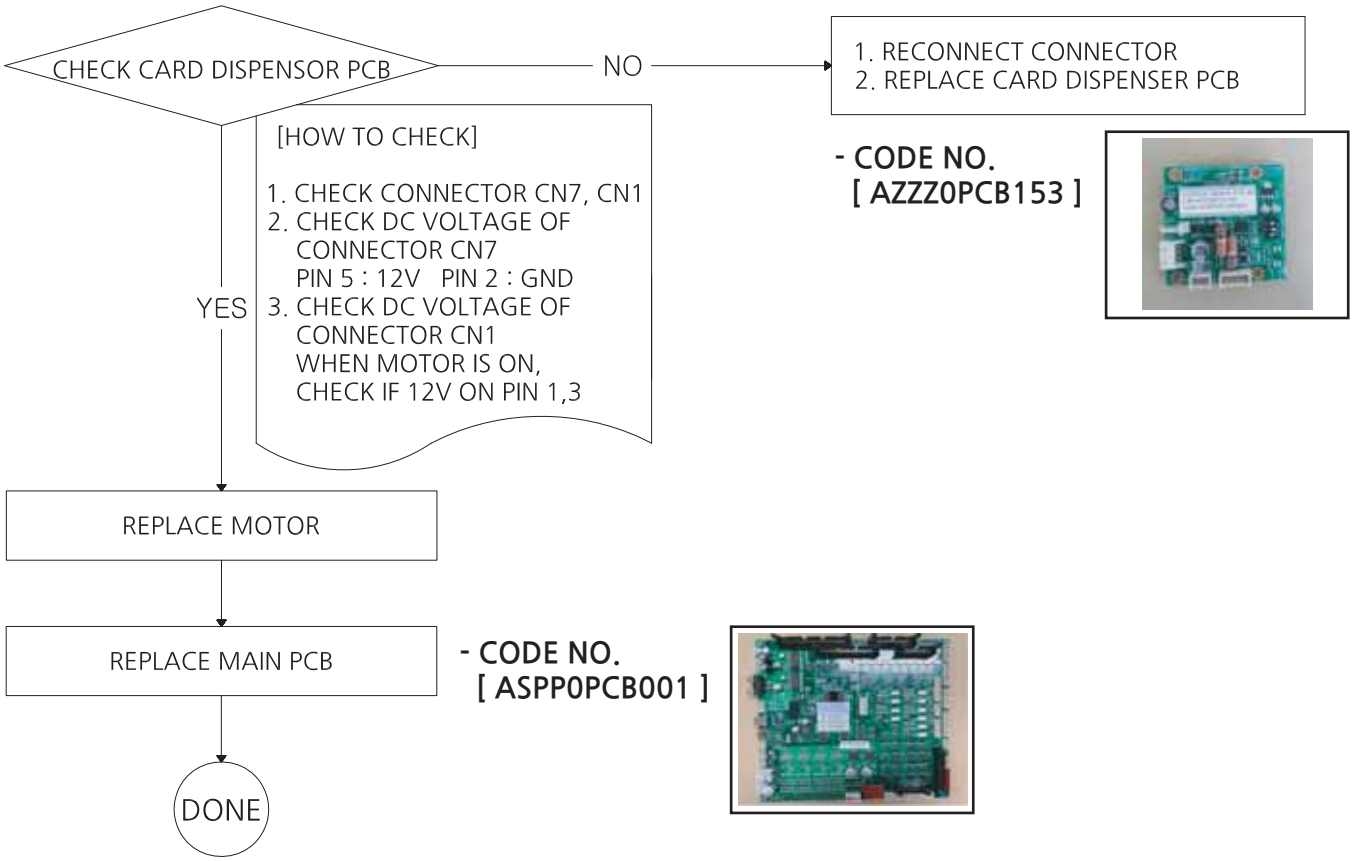
[HOW TO CHECK]

1. CHECK MOTOR CONNECTOR
2. CHECK IF MOTOR OR BOLT IS FIXED IN PLACE
3. CHECK IF ROLLER SPINS WITH NOTRACTION

CHECK MAIN PCB
- NO → 1. RECONNECT CONNECTOR 2. REPLACE MAIN PCB
- YES →

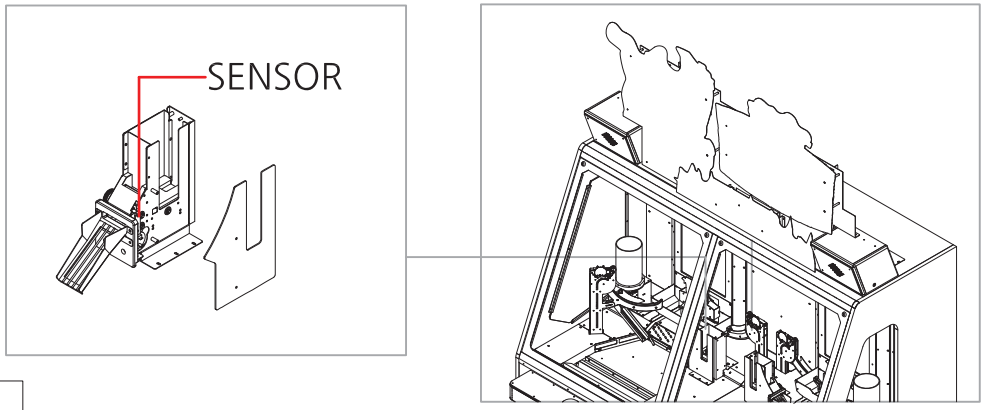
[HOW TO CEHCK]

1. CHECK CONNECTOR CN19
2. CHECK DC VOLTAGE OF CONNECTOR CN19
   1P) PIN 1: 12V, PIN 4: GND
   2P) PIN 5: 12V, PIN 8: GND
3. CHECK JOIN CONNECTOR


CHECK CARD DISPENSOR PCB
NO
1. RECONNECT CONNECTOR
2. REPLACE CARD DISPENSER PCB
- CODE NO.
[AZZZ0PCB153]
[HOW TO CHECK]
1. CHECK CONNECTOR CN7, CN1
2. CHECK DC VOLTAGE OF
CONNECTOR CN7
PIN 5 : 12V PIN 2 : GND
3. CHECK DC VOLTAGE OF
CONNECTOR CN1
WHEN MOTOR IS ON,
CHECK IF 12V ON PIN 1,3
YES
REPLACE MOTOR
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

20. CARD DISPENSER SENSOR ERROR [E.81]
- IN CASE OF SENSOR PROBLEM



CARD DISPENSER SENSOR ERROR [E.81]

TEST CARD DISPENSER — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > MOT CHECKER
2. ON/OFF BY SELECT BUTTON OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [■□□□] 1P MOTOR STATUS
   FND [□■□□] 1P NUMBER OF DISPENSED
   FND [□□■□] 2P MOTOR STATUS
   FND [□□□■] 2P NUMBER OF DISPENSED
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK CARD DISPENSER MOTOR — NO → 1. RECONNECT CONNECTOR 2. REASSEMBLE OR REPLACE

YES

[HOW TO CHECK]

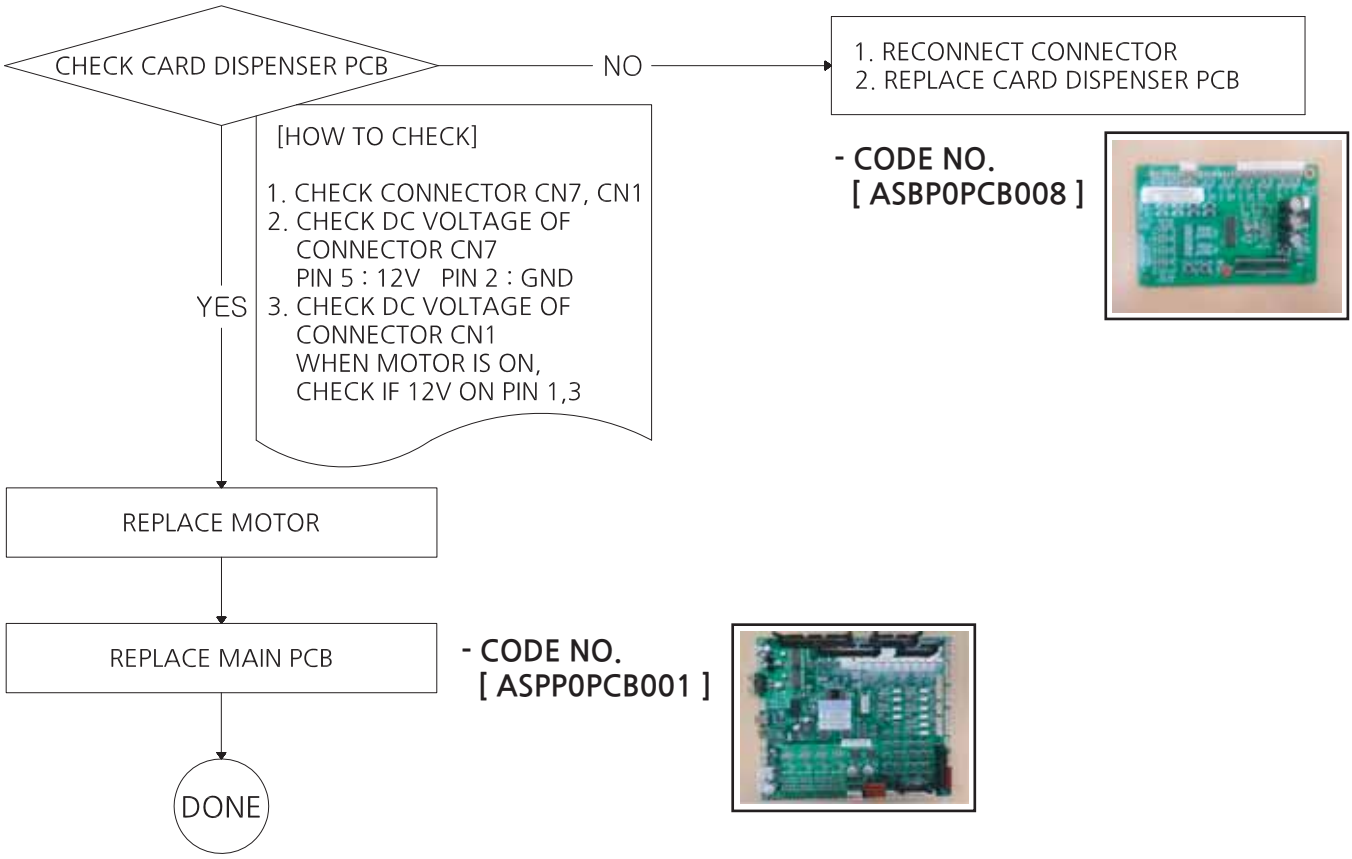
1. CHECK MOTOR CONNECTOR
2. CHECK IF MOTOR OR BOLT IS FIXED IN PLACE
3. CHECK IF ROLLER SPINS WITH NOTRACTION

CHECK MAIN PCB — NO → 1. RECONNECT CONNECTOR 2. REPLACE MAIN PCB

YES

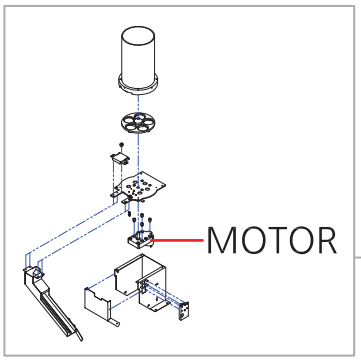
[HOW TO CEHCK]

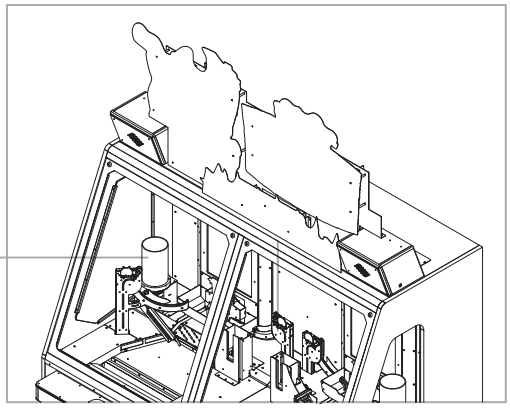
1. CHECK CONNECTOR CN19
2. CHECK DC VOLTAGE OF CONNECTOR CN19
   1P) PIN 1: 12V, PIN 4: GND
   2P) PIN 5: 12V, PIN 8: GND
3. CHECK JOIN CONNECTOR


CHECK CARD DISPENSER PCB
NO
1. RECONNECT CONNECTOR
2. REPLACE CARD DISPENSER PCB
- CODE NO.
[ASBP0PCB008]
[HOW TO CHECK]
1. CHECK CONNECTOR CN7, CN1
2. CHECK DC VOLTAGE OF
CONNECTOR CN7
PIN 5 : 12V PIN 2 : GND
YES
3. CHECK DC VOLTAGE OF
CONNECTOR CN1
WHEN MOTOR IS ON,
CHECK IF 12V ON PIN 1,3
REPLACE MOTOR
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

21. CHIP HOPPER ERROR [E.81]
- IN CASE OF MOTOR PROBLEM





CHIP HOPPER ERROR [E.81]

TEST CHIP HOPPER — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > CHIP HOPPER
2. ON/OFF BY SELECT BUTTON
   OR 1,2P BALL SHOOTING BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [■□□□] 1P HOPPER STATUS
   FND [□■□□] 1P NUMBER OF DISPENSED
   FND [□□■□] 2P HOPPER STATUS
   FND [□□□■] 2P NUMBER OF DISPENSED

CHECK CHIP HOPPER — NO →
1. REMOVE DEBRIS OR DEFECTIVE CHIP
2. RECONNECT CONNECTOR
3. REPLACE DEFECTIVE PARTS

YES

[HOW TO CHECK]

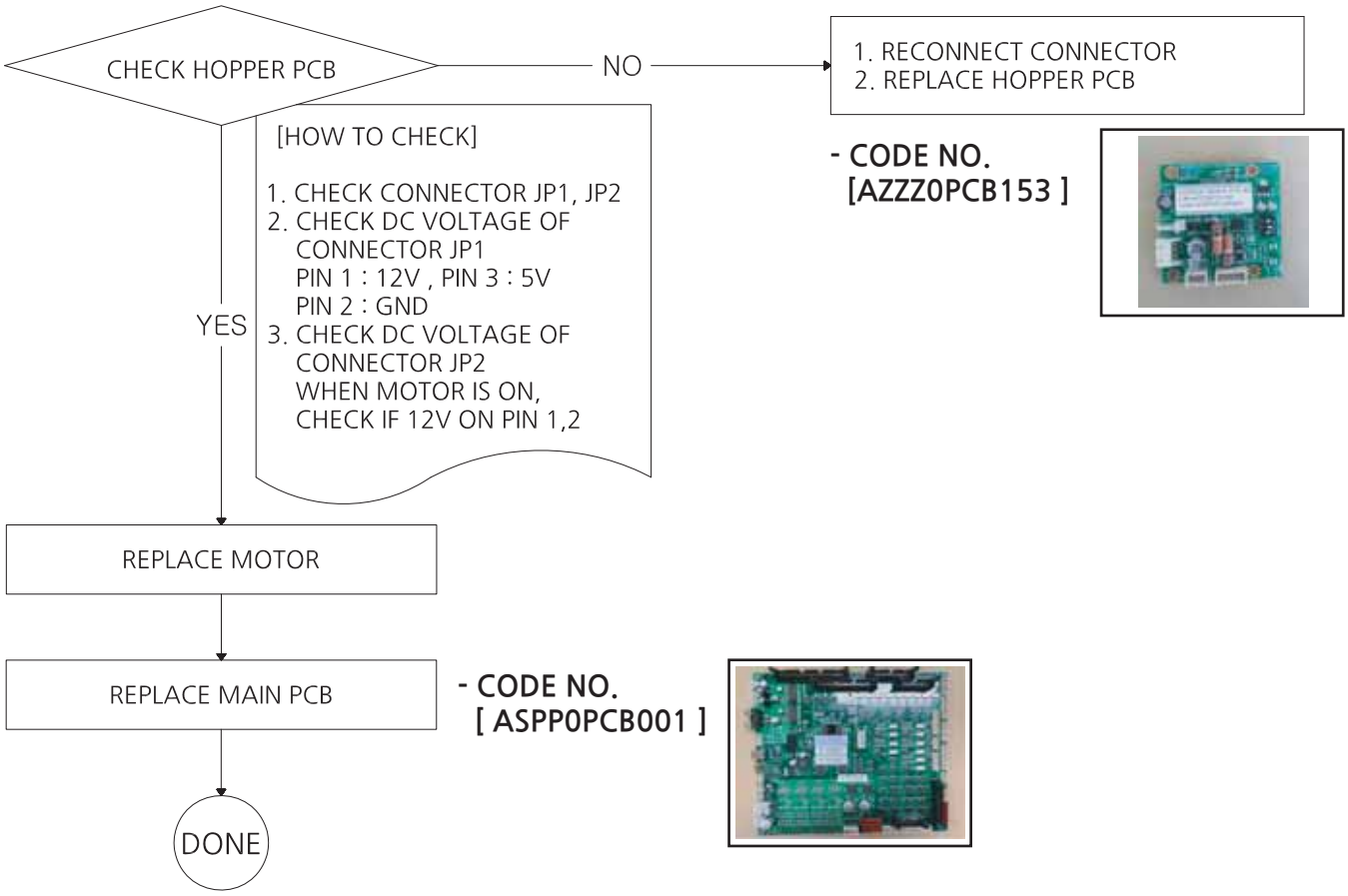
1. CHECK IF THERE IS CHIP
   STUCK OR DEFECTIVE CHIP
2. CHECK HOPPER SENSOR
   CONNECTOR
3. CHECK IF THERE IS DEBRIS ON
   HOPPER SENSOR
4. CHECK IF THERE IS STUCK POINT
   WHEN YOU SPIN THE DISK BY HAND

CHECK MAIN PCB — NO →
1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

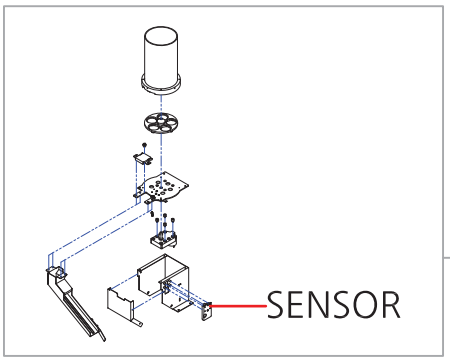
[HOW TO CEHCK]

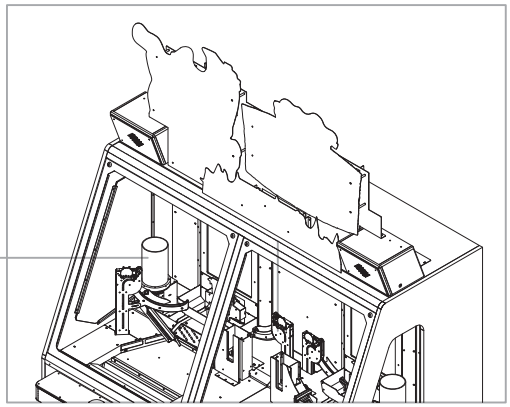
1. CHECK CONNECTOR CN13
2. CHECK DC VOLTAGE OF
   CONNECTOR CN13
   1P) PIN 1 : 12V, PIN 2 : 5V
   PIN 5 : GND
   2 P) PIN 6 : 5V, PIN 7 : GND
   PIN 10 : GND


CHECK HOPPER PCB
NO
1. RECONNECT CONNECTOR
2. REPLACE HOPPER PCB
- CODE NO.
[AZZZ0PCB153]
[HOW TO CHECK]
1. CHECK CONNECTOR JP1, JP2
2. CHECK DC VOLTAGE OF
CONNECTOR JP1
PIN 1 : 12V , PIN 3 : 5V
PIN 2 : GND
3. CHECK DC VOLTAGE OF
CONNECTOR JP2
WHEN MOTOR IS ON,
CHECK IF 12V ON PIN 1,2
YES
REPLACE MOTOR
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

* General check up : Check the supply voltage and wiring connection properly
* "NO" : Means faulty of the check up result.

22. CHIP HOPPER ERROR [E.81]
- IN CASE OF SENSOR PROBLEM





CHIP HOPPER ERROR [E.81]

TEST CHIP HOPPER — YES → DONE

NO

[HOW TO TEST]

1. TEST MODE > CHIP HOPPER
2. ON/OFF BY SELECT BUTTON
3. CHECK SUPER BONUS FND DISPLAY
   FND [■□□□] 1P HOPPER STATUS
   FND [□■□□] 1P NUMBER OF DISPENSED
   FND [□□■□] 2P HOPPER STATUS
   FND [□□□■] 2P NUMBER OF DISPENSED
4. CHECK DC VOLTAGE FROM INPUT TEST

CHECK CHIP HOPPER — NO →
1. RECONNECT CONNECTOR
2. REMOVE DEBRIS
3. ADJUST OR REPLACE

YES

[HOW TO CHECK]

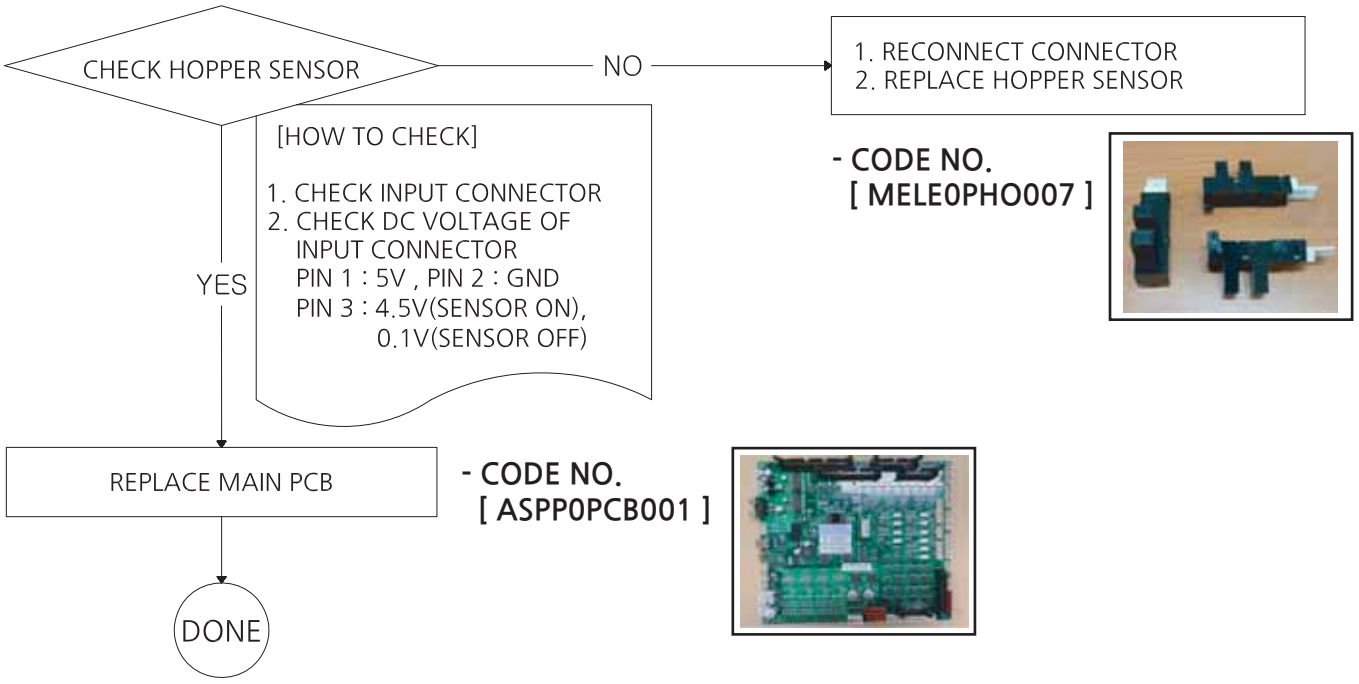
1. CHECK HOPPER SENSOR CONNECTOR
2. CHECK IF THERE IS DEBRIS ON HOPPER SENSOR
3. CHECK THE POSITION OF SENSOR BRACKET

CHECK MAIN PCB — NO →
1. RECONNECT CONNECTOR
2. REPLACE MAIN PCB

YES

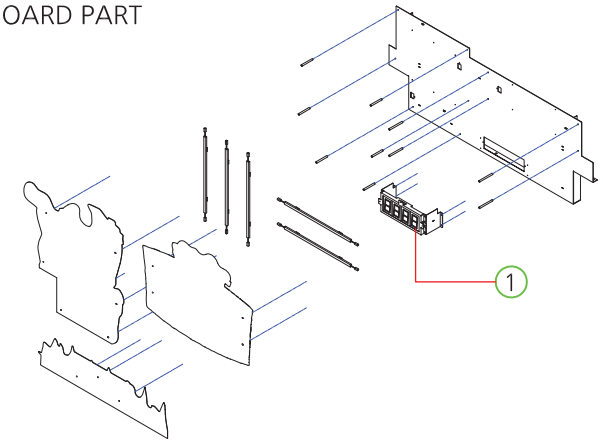
[HOW TO CEHCK]

1. CHECK CONNECTOR CN13
2. CHECK DC VOLTAGE OF CONNECTOR CN13
   1P) PIN 2 : 5V, PIN 5 : GND
   2P) PIN 7 : 5V, PIN 10 : GND
3. CHECK JOIN CONNECTOR

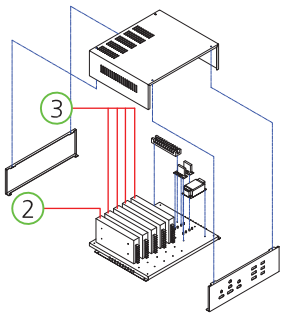

CHECK HOPPER SENSOR
NO
1. RECONNECT CONNECTOR
2. REPLACE HOPPER SENSOR
- CODE NO.
[MELE0PHO007]
[HOW TO CHECK]
1. CHECK INPUT CONNECTOR
2. CHECK DC VOLTAGE OF
INPUT CONNECTOR
PIN 1 : 5V , PIN 2 : GND
PIN 3 : 4.5V(SENSOR ON),
0.1V(SENSOR OFF)
YES
REPLACE MAIN PCB
- CODE NO.
[ASPP0PCB001]
DONE

[4. WARRANTY ITEM & PART PICTURE]

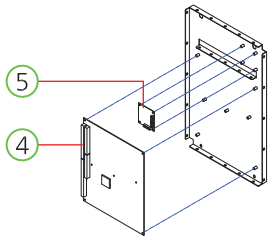
- BILLBOARD PART



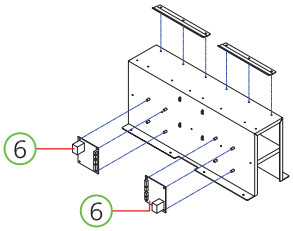
- SMPS PART



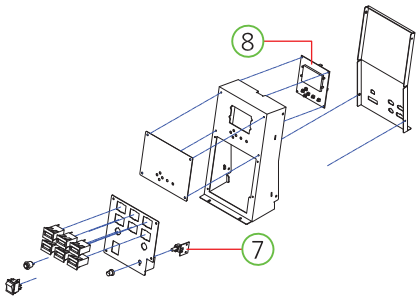
- MAIN BOARD PART



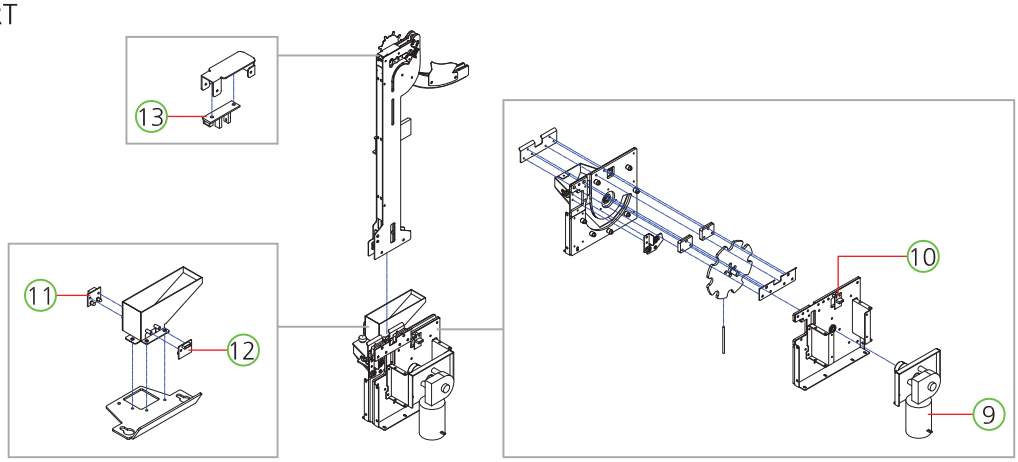
- BBE ASS'Y SUPPORT BKT PART



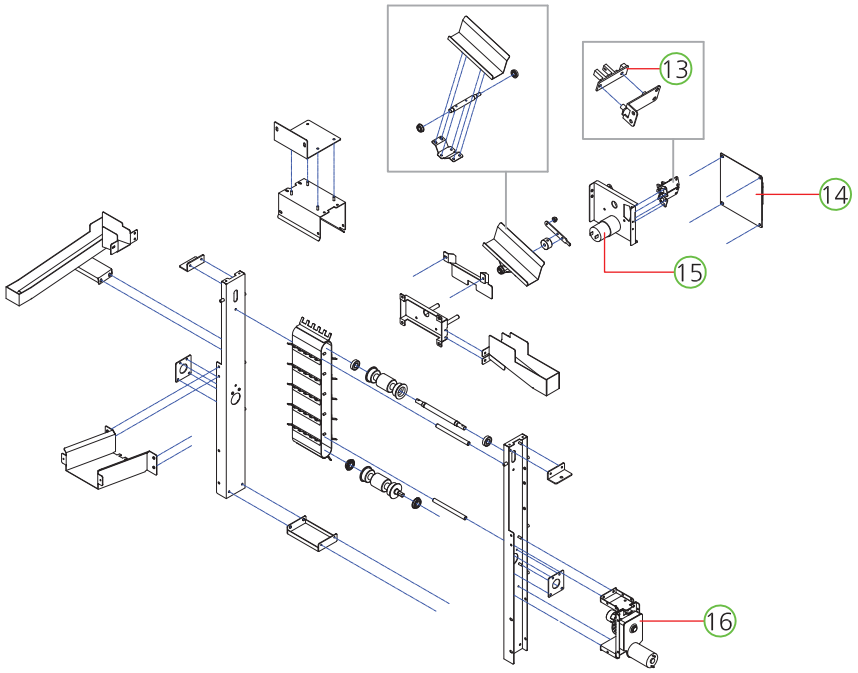
- CONTROL PANEL PART



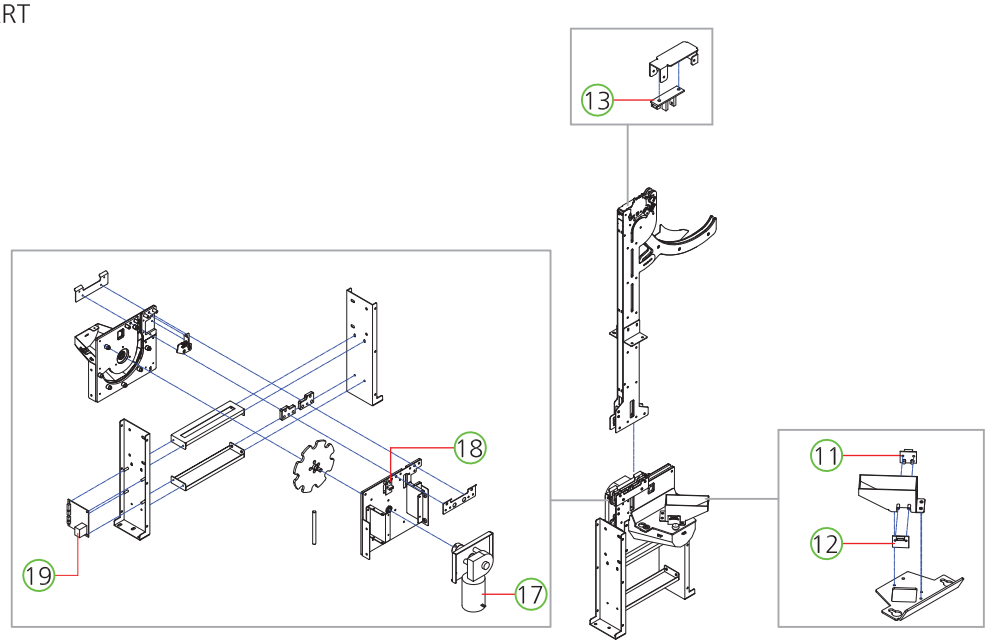
- BBE TOTAL PART



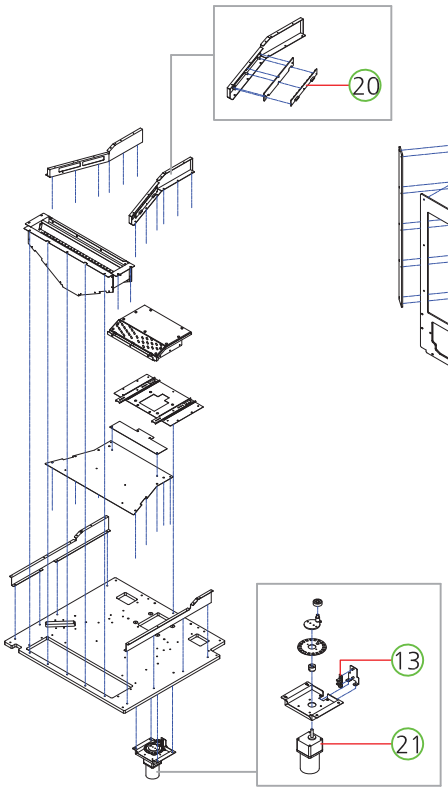
- BCE TOTAL PART



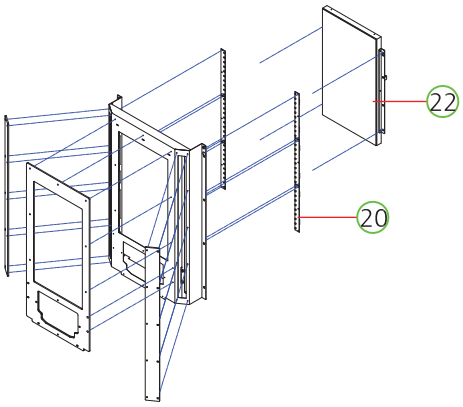
- BSE TOTAL PART



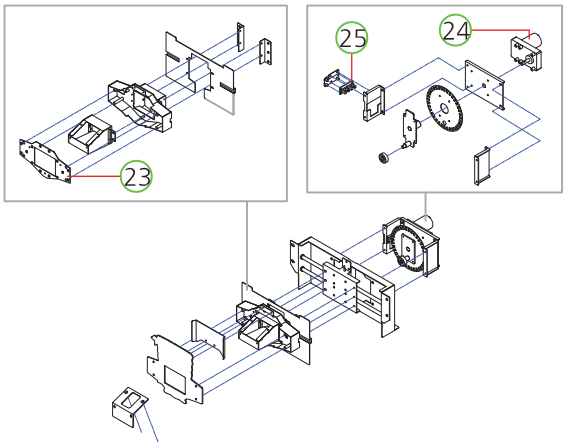
- PUSHER PLATE PART



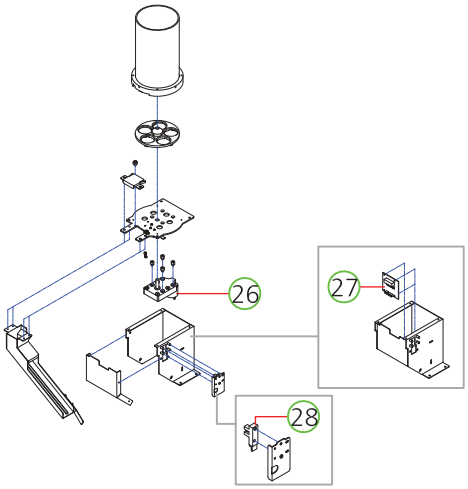
- MONITOR PLATE PART



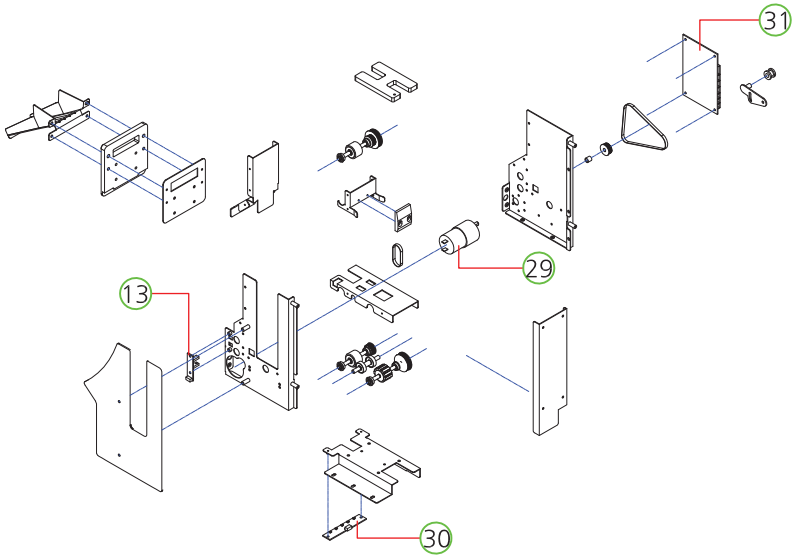
- BONUS TARGET PART



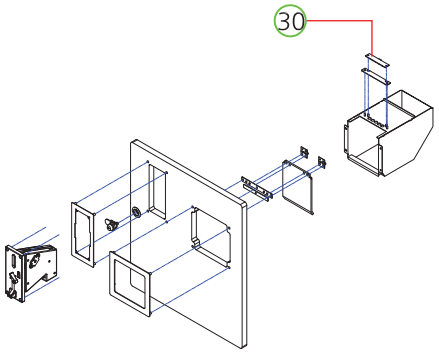
- CHIP HOPPER PART



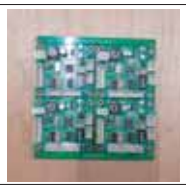
- CARD DISPENSER PART

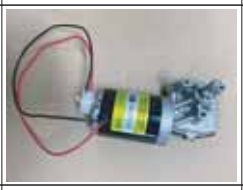


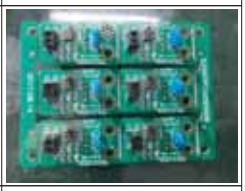
- FRONT LOWER DOOR PART



NO.	PIC	PART NAME	SPEC.	QTY	CODE NO.	WARRANTY	
						6 Month	One Year
1	O	FND PCB ASS'Y	6390-4(STRAIGHT)	1	AFND0PCB011		O
2	O	POWER SMPS	RSP-320-5	1	MELE0SMP126		O
3	O	POWER SMPS	RSP-320-12	4	MELE0SMP109		O
4	O	MAIN BOARD PCB ASS'Y	WITH CPU	1	ASPP0PCB001		O
5	O	SERIAL HUB PCB ASS'Y	-	1	AZZZ0PCB194		O
6	O	L6205 HOPPER PCB ASS'Y	-	2	AZZZ0PCB141		O
7	O	VOLUME PCB ASS'Y	-	1	AHM20PCB016		O
8	O	SETUP LCD PCB ASS'Y	-	1	AZZZ0PCB113		O
9	O	MOTOR	HM37-1232A-M005 (12V, 32rpm)	1	MZZZ0MOT164	O	
10	O	ELEVATOR DISK SENSOR PCB ASS'Y	-	1	AGHP0PCB020		O
11	O	WHEEL FAIL BALL CHECK PCB_RECEIVER	-	2	ASPP0PCB004		O
12	O	WHEEL FAIL BALL CHECK PCB_EMITTER	-	2	ASPP0PCB003		O
13	O	PHOTO INT-1 PCB ASS'Y	ANGLE TYPE	5	AZZZ0PCB103		O
14	O	MOTOR DRIVER IO PCB ASS'Y	-	1	ASPP0PCB002		O
15	O	MOTOR	KGC-3429(KD1-3429-075), 1/210(31RPM)	1	MZZZ0MOT088	O	
16	O	MOTOR	KGE-0116-ND3657 U1 (12V, 43rpm)	1	MZZZ0MOT155	O	
17	O	MOTOR	HM37-1232A-M005 (12V, 32rpm)	1	MZZZ0MOT164	O	
18	O	ELEVATOR DISK SENSOR PCB ASS'Y	-	1	AGHP0PCB020		O
19	O	L6205 HOPPER PCB ASS'Y	-	1	AZZZ0PCB141		O
20	O	MONITOR SIDE LED PCB ASS'Y	-	8	ASPP0PCB005		O
21	O	AC MOTOR	K6IG6NC	1	MZZZ0MOT094	O	
	O	[GEAR HEAD]	K6G90C	1	MSAW0ZZZ008		
22	O	MONITOR	23"	1	MZZZ0LCD017		O
23	O	BONUS TARGET SENSOR PCB ASS'Y	-	1	AWWE0PCB005		O
24	O	MOTOR	KGV-0120-ND3657 U1	1	MZZZ0MOT141	O	
25	O	PHOTO INT2 PCB ASS'Y	-	1	AWIW0PCB009		O
26	O	MOTOR	KGE-0162-KD3429T1-SSF	1	MZZZ0MOT134	O	
27	O	CHIP HOPPER PCB ASS'Y	-	1	AZZZ0PCB153		O
28	O	PHOTO SENSOR	LG-217L3	1	MELE0PHO007		O
29	O	MOTOR	KGC-3429(KD1-3429-075), 1/40(163RPM)	1	MZZZ0MOT089	O	
30	O	LED PCB ASS'Y	-	2	AMUM0PCB005		O
31	O	CARD DISPENSER IO PCB ASS'Y	-	1	ASBP0PCB008		O

1	2	3	4	5	6
					
AFND0PCB011	MELE0SMP126	MELE0SMP109	ASPP0PCB001	AZZZ0PCB194	AZZZ0PCB141

7	8	9	10	11	12
					
AHM20PCB016	AZZZ0PCB113	MZZZ0MOT164	AGHP0PCB020	ASPP0PCB004	ASPP0PCB003

13	14	15	16	17	18
					
AZZZ0PCB103	ASPP0PCB002	MZZZ0MOT088	MZZZ0MOT155	MZZZ0MOT164	AGHP0PCB020

19	20	21	22	23	24
					
AZZZ0PCB141	ASPP0PCB005	MZZZ0MOT094	MZZZ0LCD017	AWWE0PCB005	MZZZ0MOT141

25	26	27	28	29	30
					
AWIW0PCB009	MZZZ0MOT134	AZZZ0PCB153	MELE0PHO007	MZZZ0MOT089	AMUM0PCB005

31

ASBP0PCB008