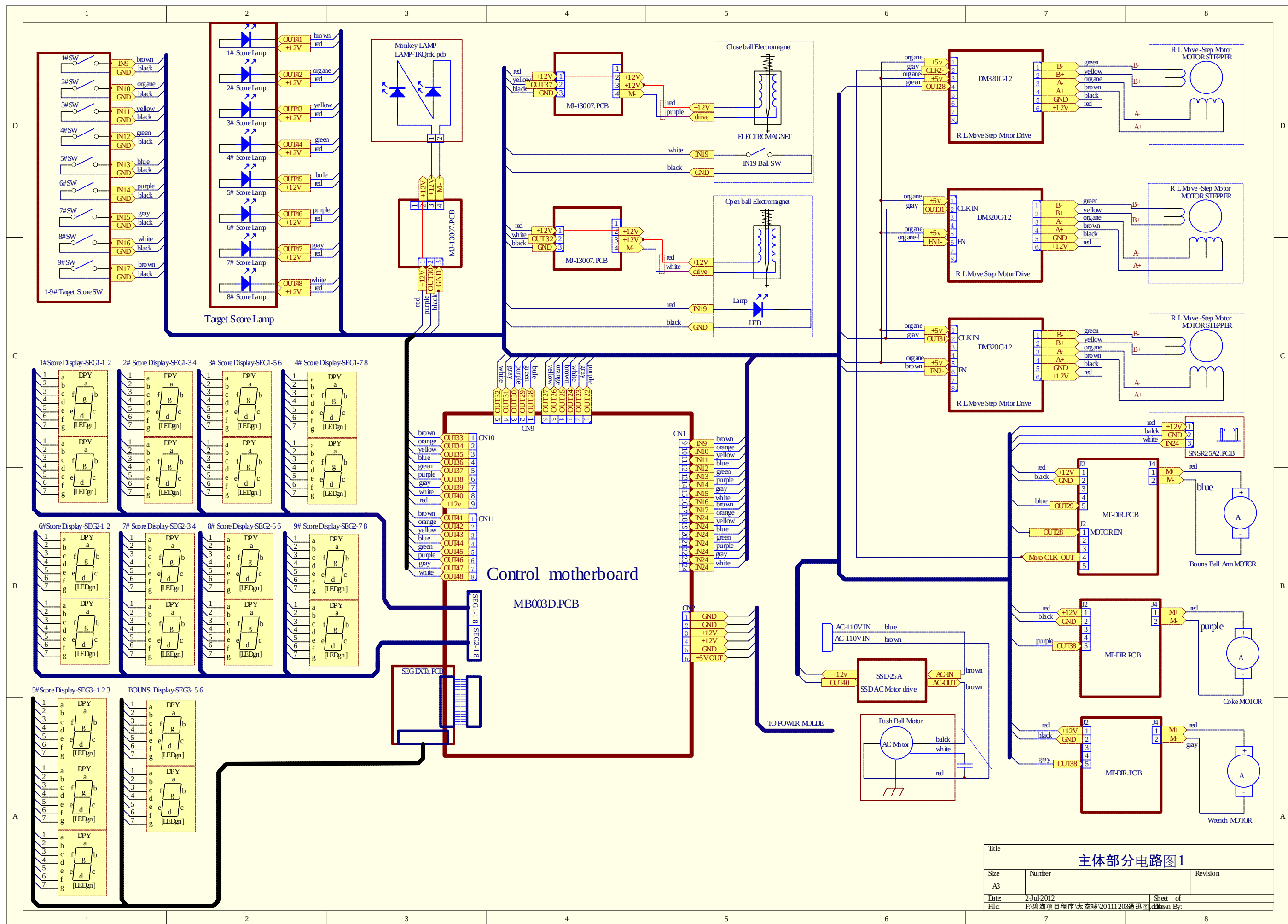
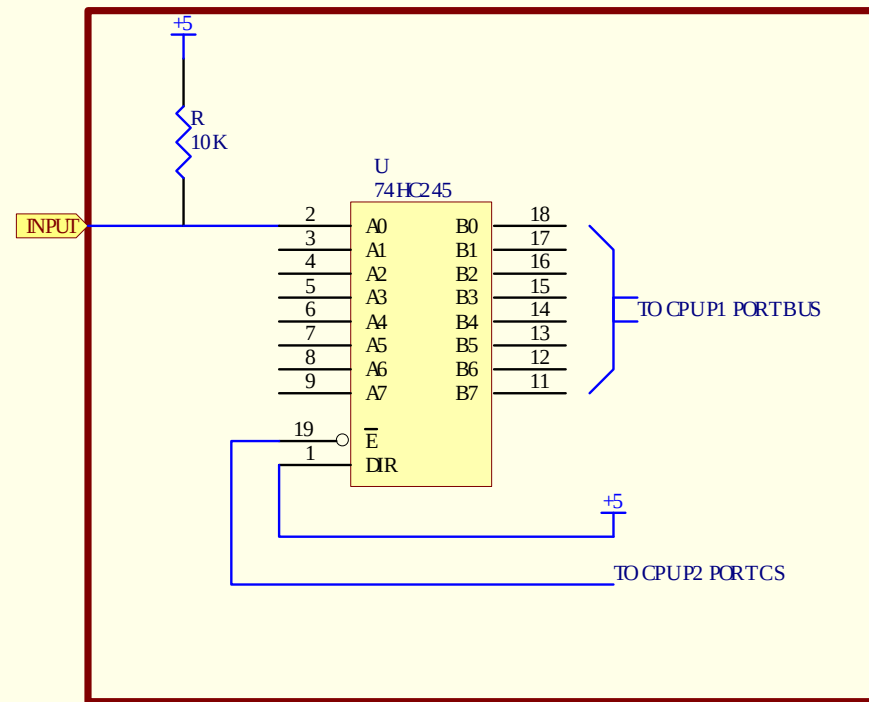




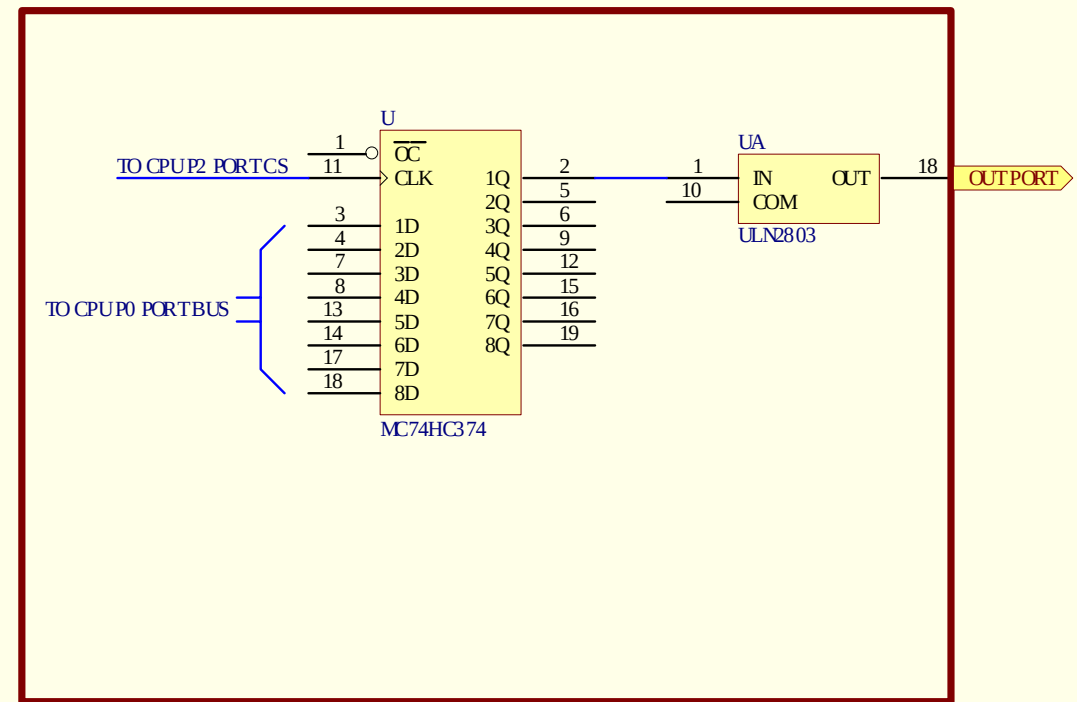
Title
主体部分电路图1

Size A3	Number	Revision
Date 24-Jul-2012	Sheet of	Drawn By:
File F:\碧海项目\程序\太空球\201111203通讯图		

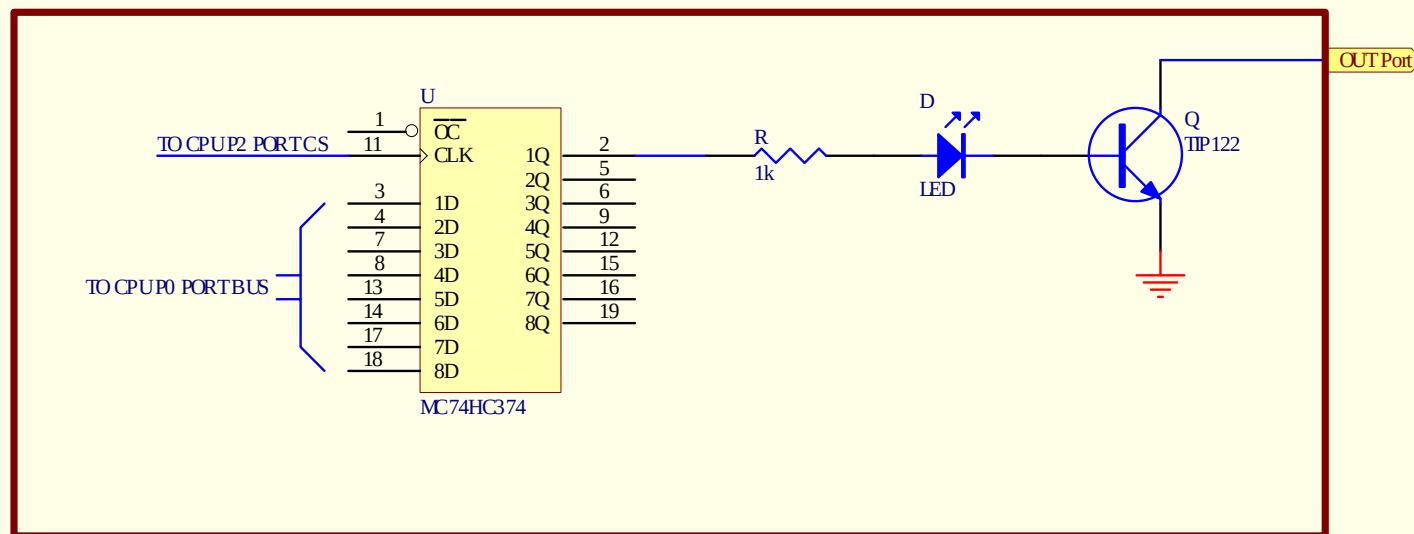
Input Port IN1 - IN40



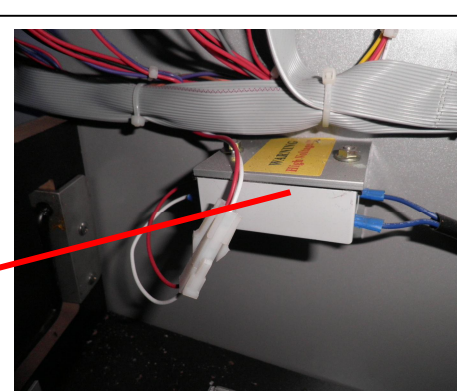
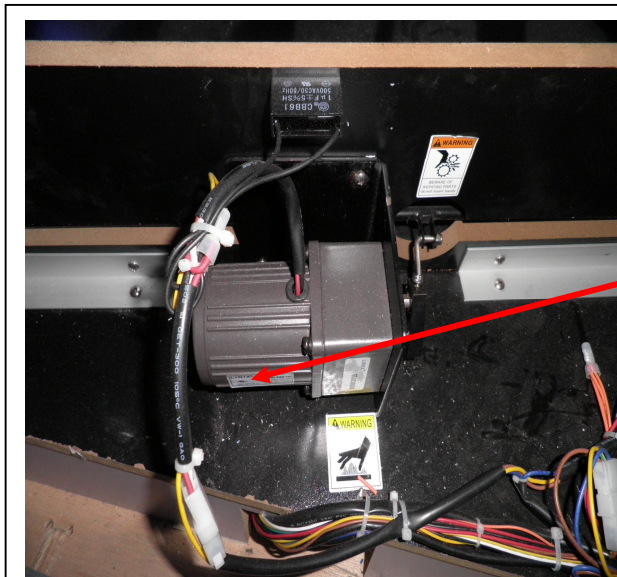
OUT Port Out1 - Out32



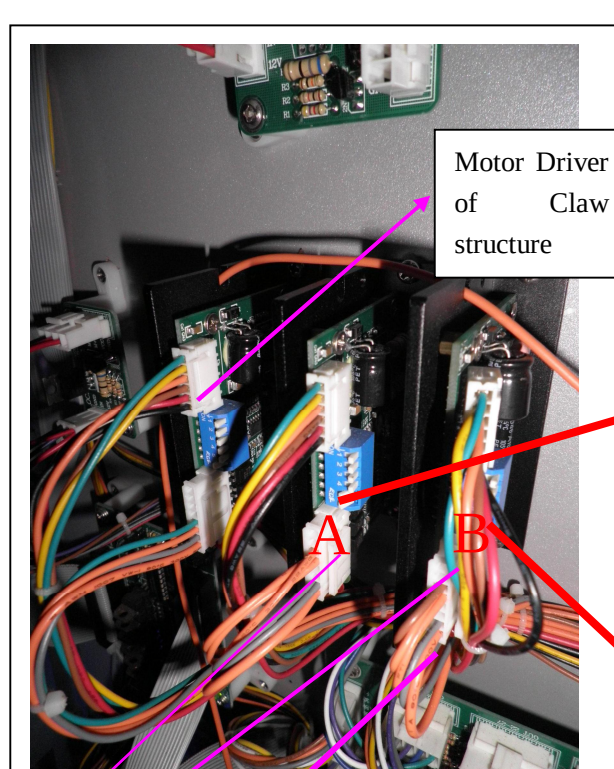
OUT Port Out33 - Out40



Title		MB003D I/O PUT	
Size A4	Number	Revision	
Date:	10-Jul-2012	Sheet	of
File:	F:\碧海项目\程序\太空球\太空球维修图\2012\mb03\施工图.ddb		

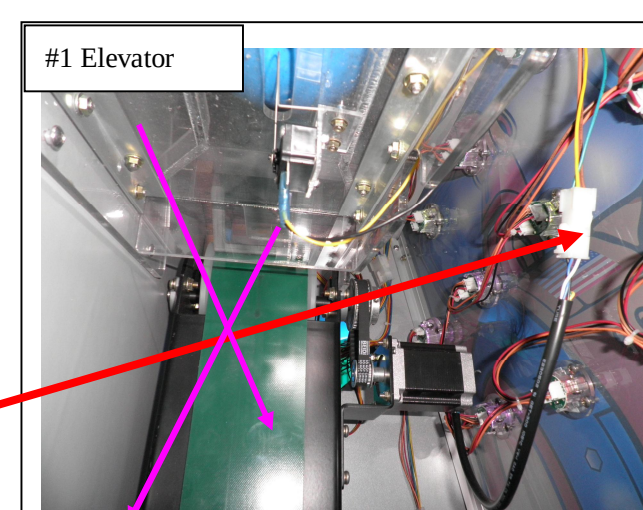


1: Relay of Collection Bar Motor
Red wire: +12V
White wire: to MB003D.PCB out40
it drives the motor under low level of electricity.



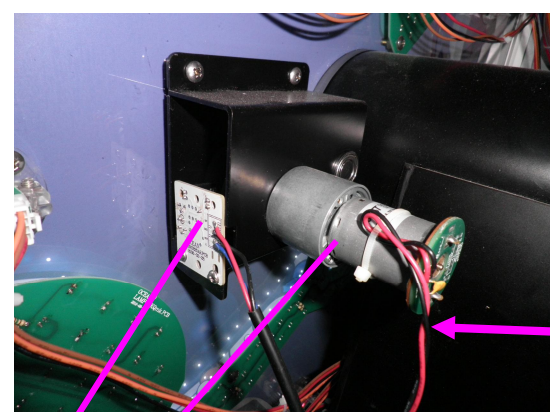
Motor Driver
of Claw
structure

A: Step motor driver of #1 Elevator
B: Step motor driver of #2 Elevator
Wire connection:
Orange wire: +5V
Grey wire: step motor pulse Input signal
(MB003D.PCB Out31)
Orange wire: +5V
Brown wire: control step motor, EN signal
(MB003D.PCB out25)
Out31.

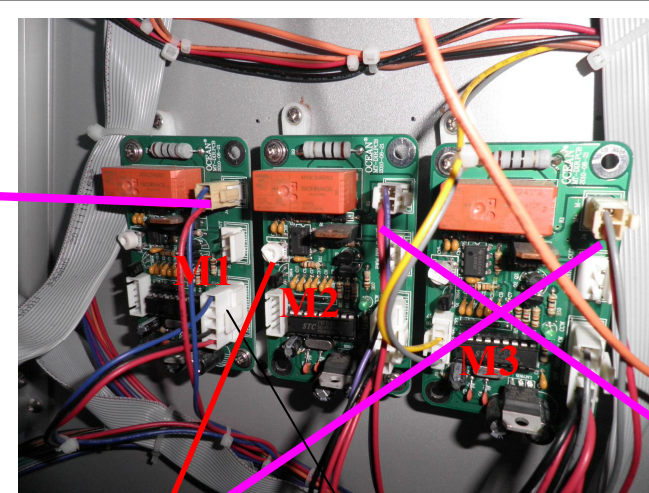


#1 Elevator

1: Micro switch of Ball Holding Area, when there is the ball upon the switch, the voltage value of Yellow wire is 0V to MB003D.PCB IN20. Usually, there should be 3 balls in this holding Area.

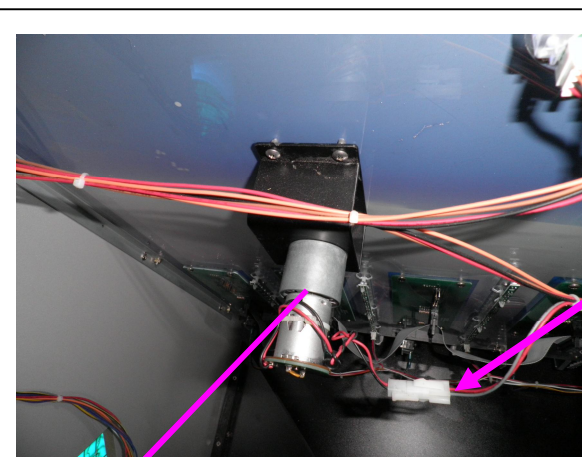


1: BOUNS Sensor (if there is the signal which can be detected, its Led light will be ON.
2: BOUNS Arm Motor

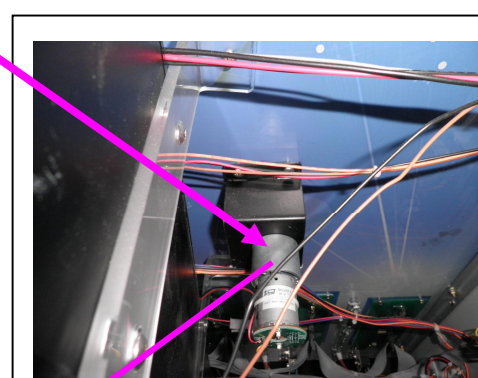


M1: Bonus Arm Motor Drive. Blue wire: wire of signal transmission, it drives the motor under low level of electricity.
M2: Coke bottle Motor Drive, Purple Wire: wire of signal transmission, it drives the motor under low level of electricity.

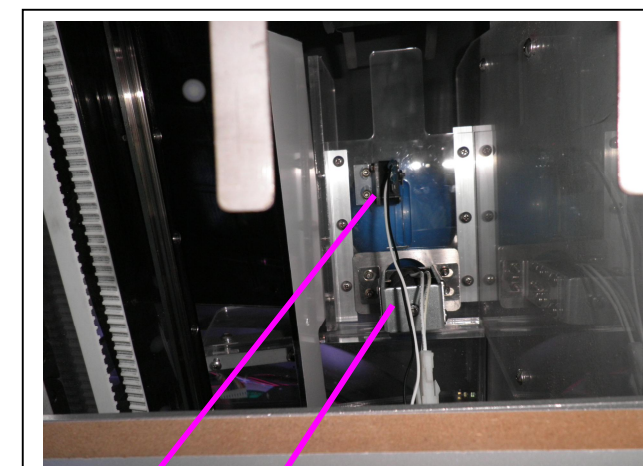
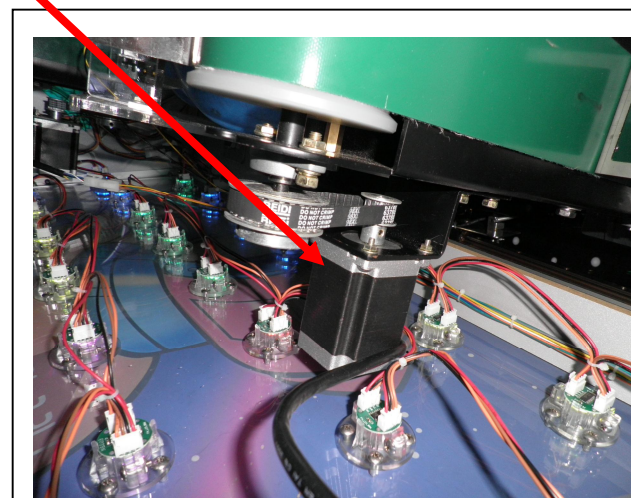
M2: Wrench Motor Drive. Purple wire: wire of signal transmission, it drives the motor under low level of electricity. Potentiometer for adjusting the efforts of the Motor, turn it clockwise to increase the torque; turn it counter clockwise to decrease the torque. Note: Adjust the potentiometer, until the instruction light is OFF, and the motor operates normally.



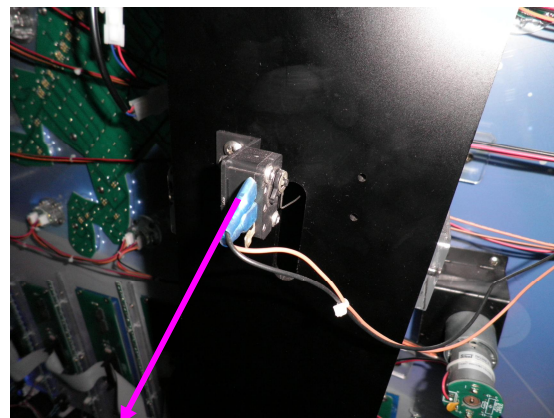
Wrench Motor



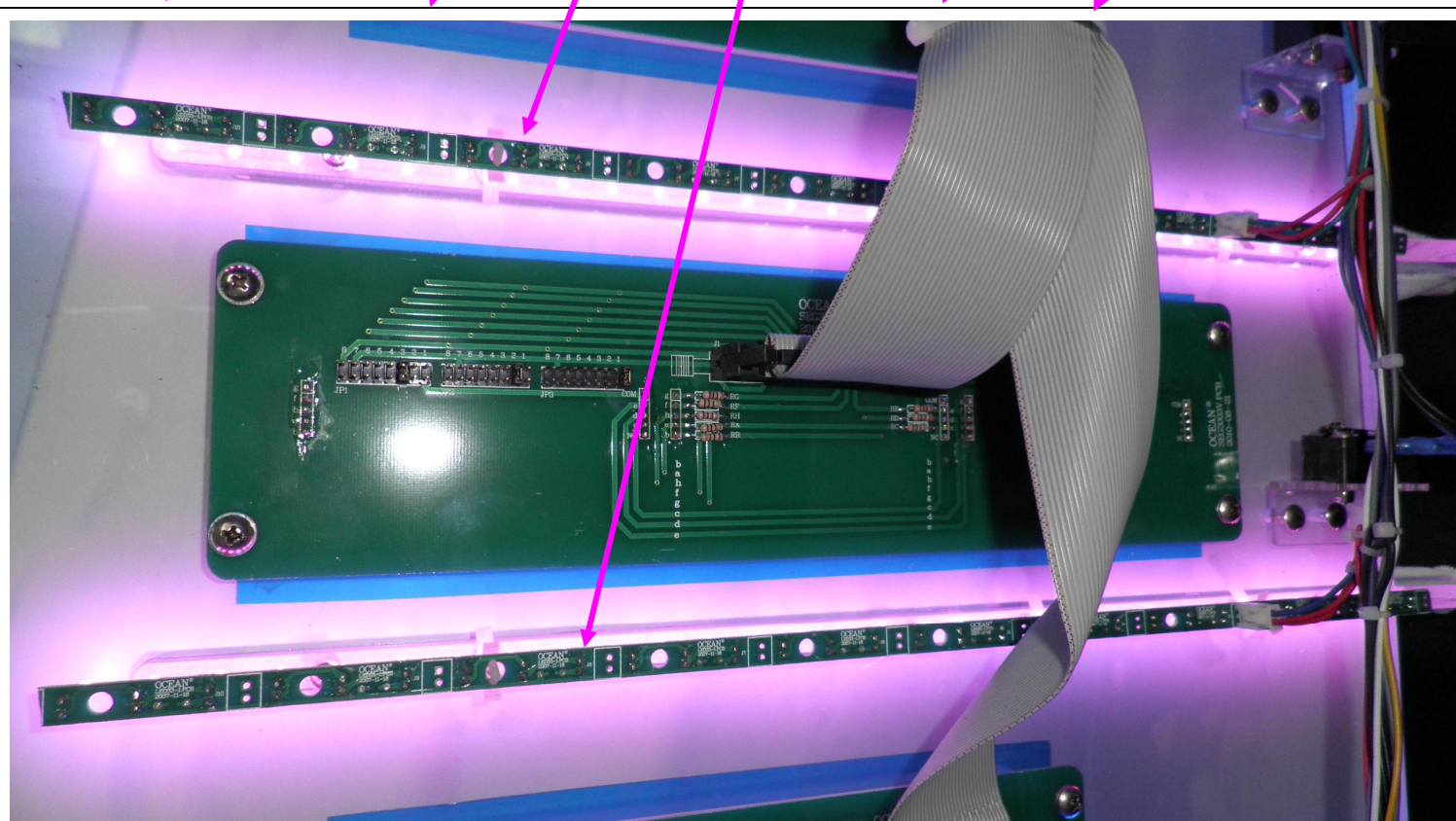
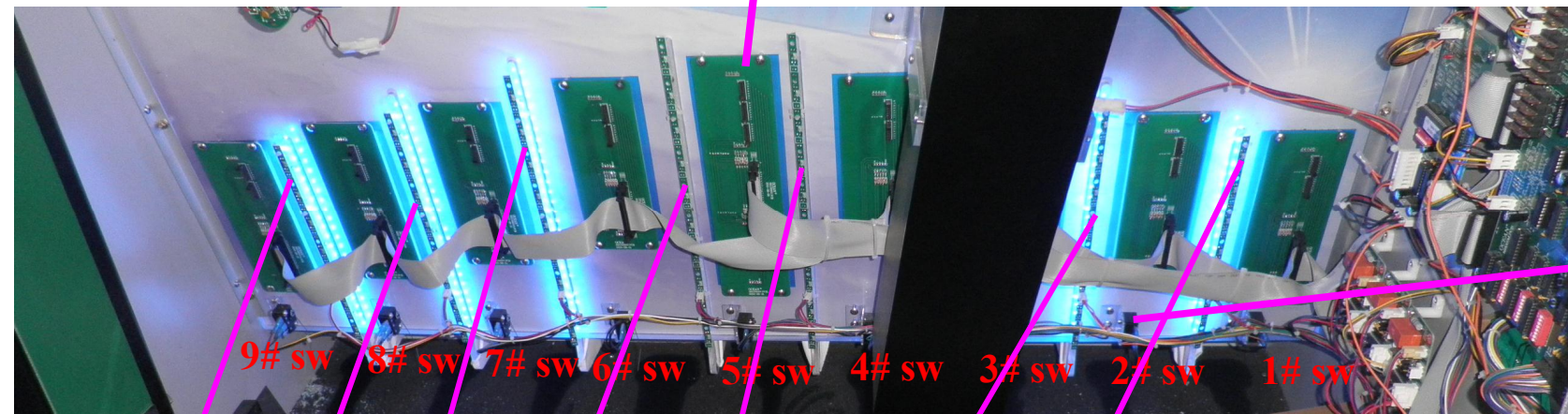
Coke bottle Motor



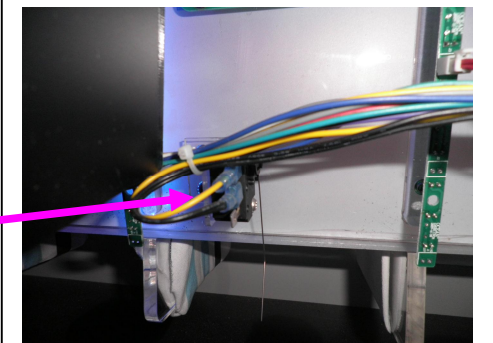
1: Micro switch of #2 Elevator. If there is the ball the micro switch the voltage value of yellow wire is 0V. To MB003D.PCB IN19. Usually, there should only 1 ball in this holding area.
2: Solenoid. Corresponding output: MB003D.PCB out37.



BOUNS Micro Switch (under low level of electricity)
Orange wire: to MB003D.PCB IN18.



1#---8# Channel lights are corresponding to MB003D.PCB out41---out48.



- 1-9# SW, Under low level of electricity
- 1#SW : connected by brown wire to MB003D.PCB IN9.
 - 2#SW : connected by orange wire to MB003D.PCB IN10.
 - 3#SW : connected by yellow wire to MB003D.PCB IN11.
 - 4#SW : connected by green wire to MB003D.PCB IN12.
 - 5#SW : connected by blue wire to MB003D.PCB IN13.
 - 6#SW : connected by purple wire to MB003D.PCB IN14.
 - 7#SW : connected by grey wire to MB003D.PCB IN15.
 - 8#SW : connected by white wire to MB003D.PCB IN16.
 - 9#SW : connected by brown wire to MB003D.PCB IN17.