



Please read the manual carefully and keep it in mind before using this machine.

Put this manual within touch of your reference in anytime.





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# **Precautions**

□ lmr	nediately after receiving the product
	sure operating voltage and power consumption are the same ecifications of location. Incorrect use may cause malfunctions.
□ Not	es for installation
	nnician must install the product. e, follow the instructions carefully.
	oid fire and electrical shock, use proper interior wiring and do not ad any one electrical outlet.
	oid injury, do not expose the power cord to high traffic areas it can be stepped and/or tripped on.
□ Not	es for transference
	transferring the product, do not damage the power cord. ould lead to a malfunction or accident.
malfuı	oid sustaining damage to product and causing possible nction, package product tightly when transferring, not allow it to shift and/or move during transfer.



# **Specifications**



Power Requirement: 110V or 220V

Power Rating: 100W

Dimensions: W550 X D900 X H2350

Weight: 140Kg



# **Product Composition & Name of Each Part**

☐ Composition

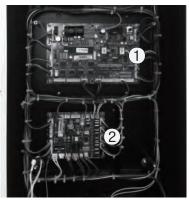
- 1 Front Door
- 2 Hitting Plate
- 3 Urethane Hammer
- 4 Ticket Dispenser
- **5** Coin Box
- 6 FND
- 7 RGB Color Cluster
- **8** Second Coupling Device
- 9 Frame for fixing
- 10 Upper KEY
- 11) Billboard A'SSY





## **Product Composition & Name of Each Part**

#### ☐ Inner Part

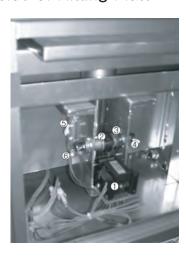




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- ① Main PCB
- 2 I/O PCB
- ③ FND PCB
- (4) RGB Color Cluster
- 1 Trans
- ② Counter and Sort of P/W & S/W
- ③ SMPS

#### ☐ Inside of Hitting Plate

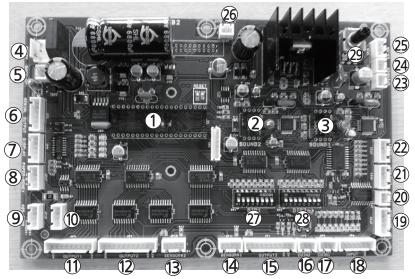


- 1) Solenoid
- ② Processed part of¬-shape(Another name: grasshopper)
- ③ Small S.P
- 4)15Ø Pin
- ⑤ Position sensor
- 6 Speed sensor

# KING OF THE HAMMER II

#### **Sort of PCB and Circuit Diagram**

☐ Main PCB



1. main ROM 6. Coin FND 2. Sound ROM 3. Sound ROM(Effect)

7. not used 8, bill 9. I/O Board

10, not used

11. not used

12, not used 13. Position Sensor

14. Speed Sensor 15, not used

16. Hammer Switch

17, Coin 18, not used 19. Service Coin, Reset, Coin Counter

20. Ticket Counter

26. I/O Board Out 2

27. Dip Switch 28. Dip Switch

29. Not use

21. Ticket-out Button

22. Ticket-Dispenser

23. Speaker 1

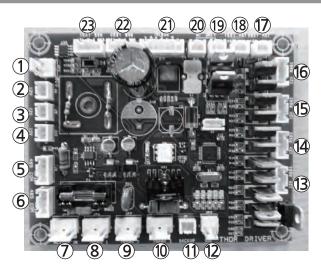
24. Speaker 2

25, Volume

☐ I/O PCB

4. AC24v

5. AC220v(backup)



1. DC 12V

2. DC 12V 3. DC 12V

4. DC 12C

5. I/O Board input

6. Score FND

7. AC 220V 8. TRANS

10. Backup

9. Woofer Speaker

11. Not use

12, SOL 13. RGB output(Tower LED)

14. RGB output 15. RGB output 16. RGB output 17. Not use

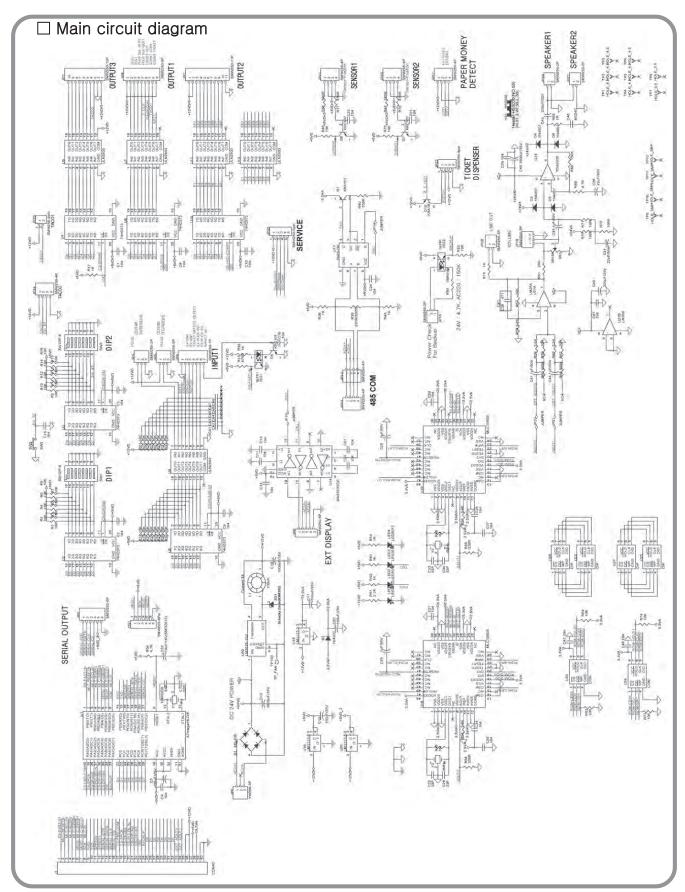
18. Not use

19. Speaker 20. I/O board input

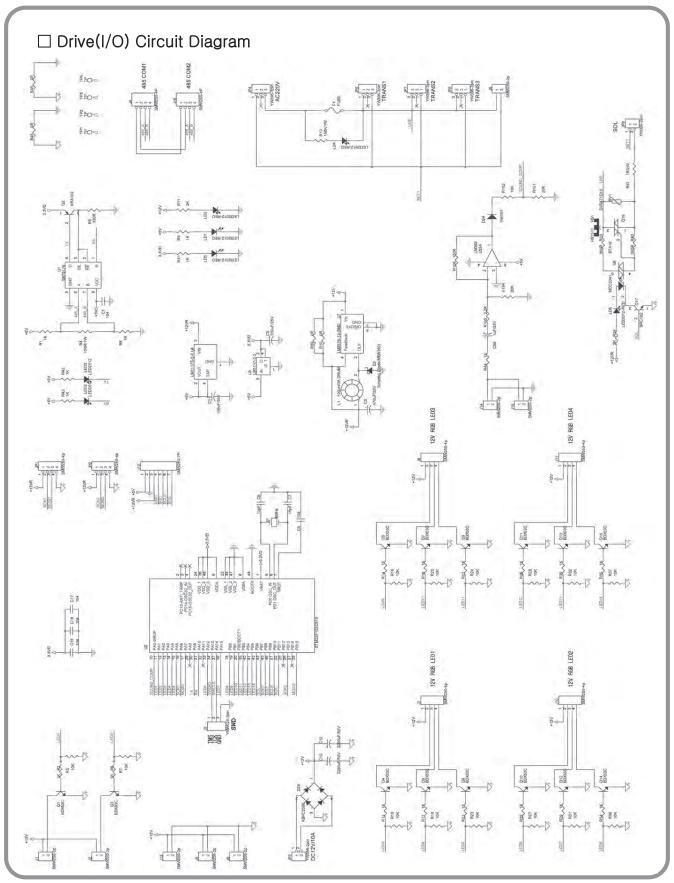
21. Not use

22. Not use 23 RGB Cluster

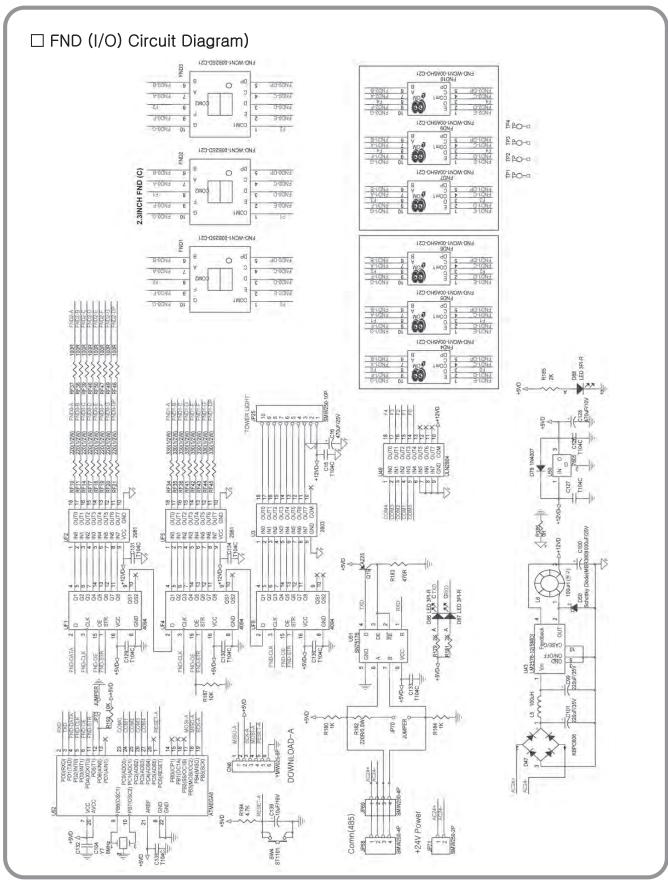




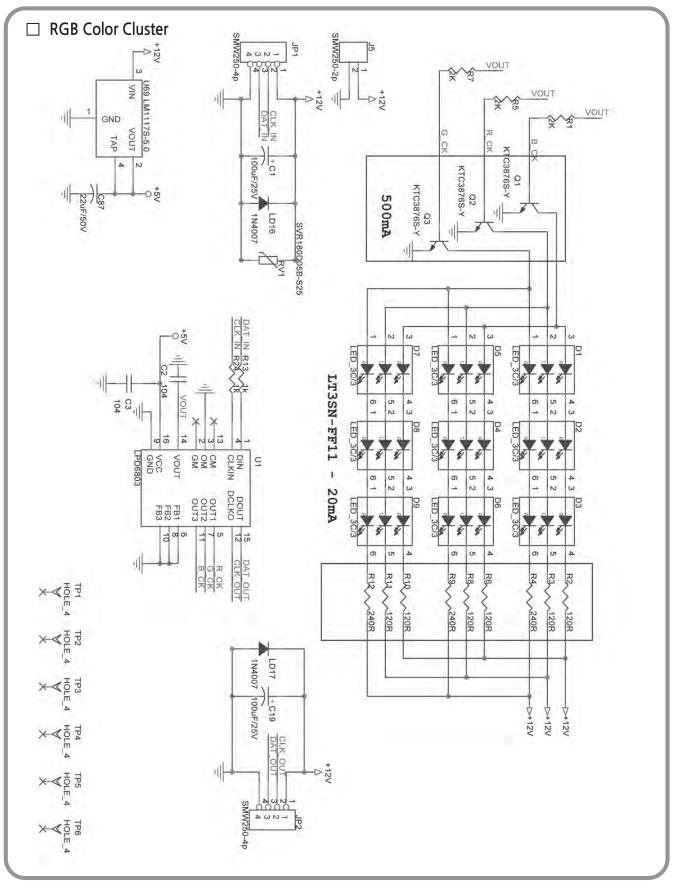














#### **How to Control and Set the Mode**

THUNDER SD ( KING OF THE HAMMER SD II )ver.1.0									
DIP SWITCH 1		1	2	3	4	5	6	7	8
1COIN / 1CREDIT		OFF	OFF						
1COIN / 2CREDIT		ON	OFF						
2COIN / 1CREDIT		OFF	ON						
2COIN / 2CREDIT	2COIN / 2CREDIT		ON						
	0			OFF	OFF				
Free tickets	1			ON	OFF				
riee tickets	2			OFF	ON				
	3			ON	ON				
	0					OFF	OFF		
Tickets per high score	5					ON	OFF		
fickets per flight score	10					OFF	ON		
	15					ON	ON		
No function								OFF	OFF
Tickets at 777 score 10								ON	OFF
Tickets at 888 score 10								OFF	ON
Tickets at 999 score 10								ON	ON
DIP SWITCH 2		1	2	3	4	5	6	7	8
Back up		ON							

DIP SWITCH 2	1	2	3	4	5	6	7	8
Back up	ON							
Demo Sound		ON						
Game over , in 30sec ,			OFF					
if you don't hit the target			OFF					
Game over , in 60sec ,			ON					
if you don't hit the target			ON					
Bounce game per high score	·			OFF				
No bounce game per high score	·			ON	·	·	·	

<sup>\*</sup> High score is deudcted by 1 every play



1) RGB Cluster



2)SENSOR SET



3)METALHITTING PLATE



4)SHAFT

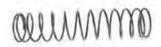


5)U - BAR





6)BIG SPRING



7)TEEAST BEARING



8)URETHANE METALLIC MATERIAL GUARD



9)HAMMER



10)URETHANE RING





11)TRANS



12)FRONT-PC



13) METEL HITTING URETHANE



14)MAIN PCB



15)FND PCB (A)





16)FND PCB (B)



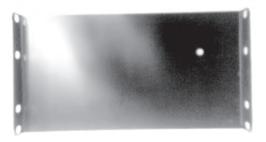
17)I/O PCB



18) SMPS



19) Frame for fixing





#### **Trouble Shooting & Maintenance**

☐ In case of loosening a screw bolt

Tighten a screw bolt by using 10mm lens tool once a week



☐ In case that the sensor is not checked





- \* Loosen Solenoid and S.P small-shaped part.

  Grind processed part of ¬-shape with grinding tool such as a hand grinder.

  When grinded too much, the Solenoid will not work well. Recommended grinding depth is approximately 1mm.
- ☐ In case a hitting plate does not go up
- \* Solenoid works very well when a small amount of grease is applied on the processed part of ¬-shape.
- ☐ In case of PCB problem
- \* Contact main office of manufacturer or the place of purchase.

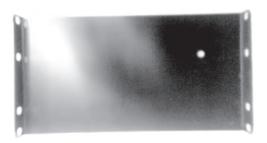


#### **How to Assemble**

① Full Body



② Binding steel plate



3 Hitting part







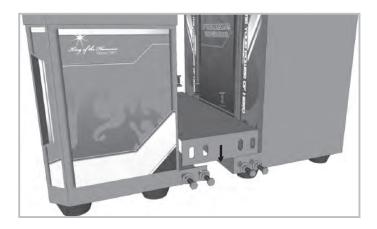


Meet positions of ① case and ③ hitting part and < Solenoid 2P, position sensor 3P, speed sensor 3P> interlink a connector.

Fix them by using 10EA of 12m screw bolt after covering ② binding steel plate.



# **How to Assemble**



Step. 1

Join Hitting part and Base body.

(12mm bolt, washer, spring washer)



Step. 2

Join Upper body and Base body.

(10mm bolt, washer, Nylon nut)



Step. 3

Join Tower and Upper body. (4mm bolt, Nylon nut)