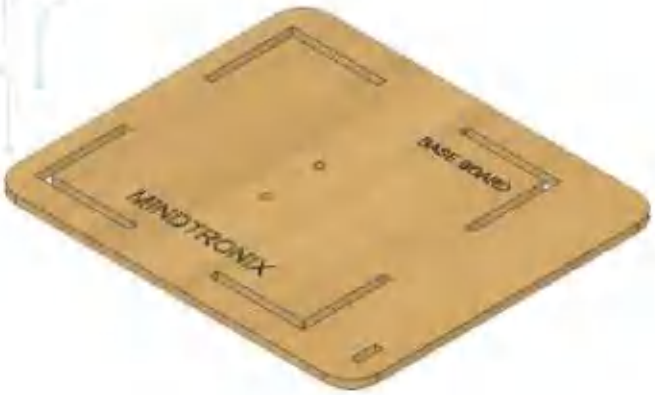
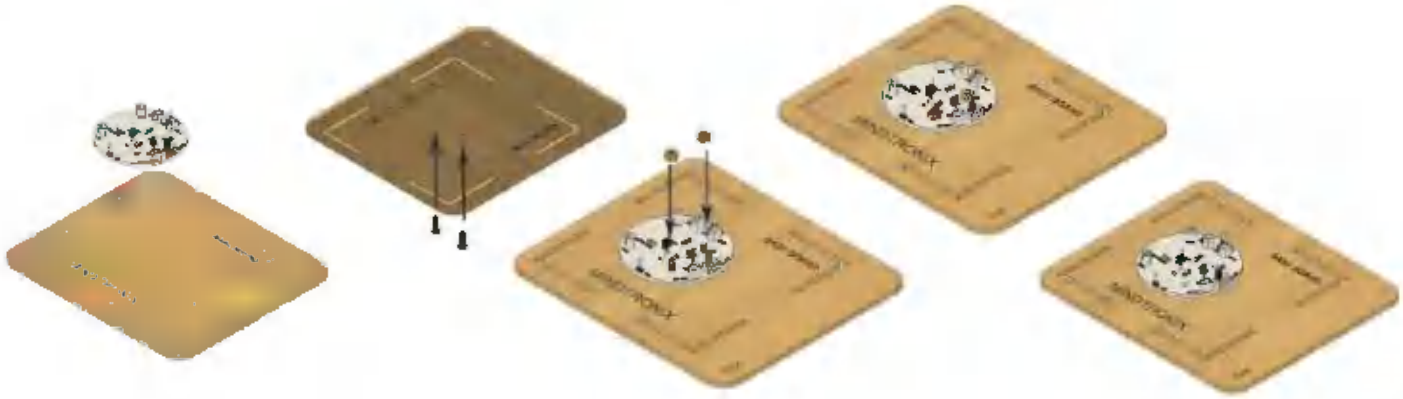
BASIC ELECTRIC SWITCH CIRCUIT

BETA



1. Take house baseboard and keep it as text readable orientatian



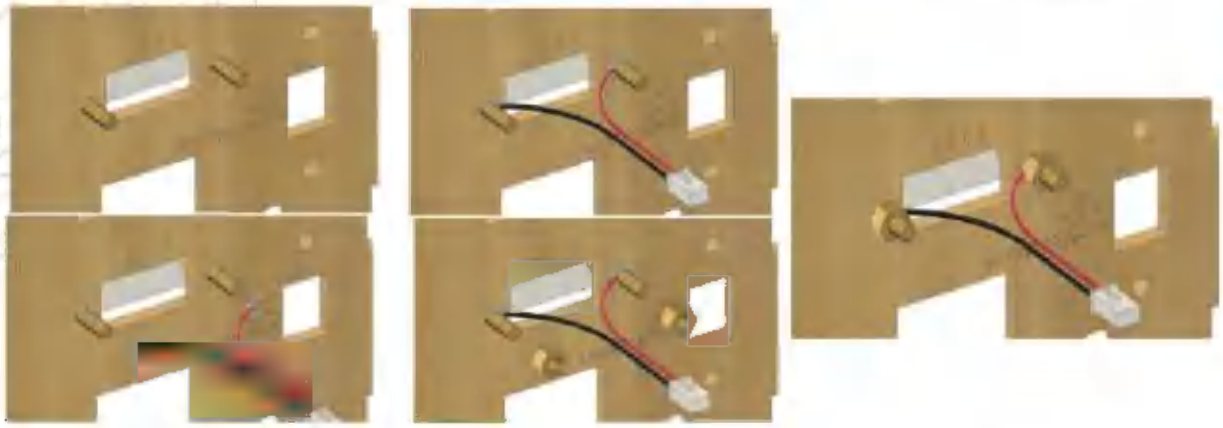
2. Now take main board and insert screws and nuts and fix it

3. Take LED and attach the Screws and Nuts to it as shown in the above image

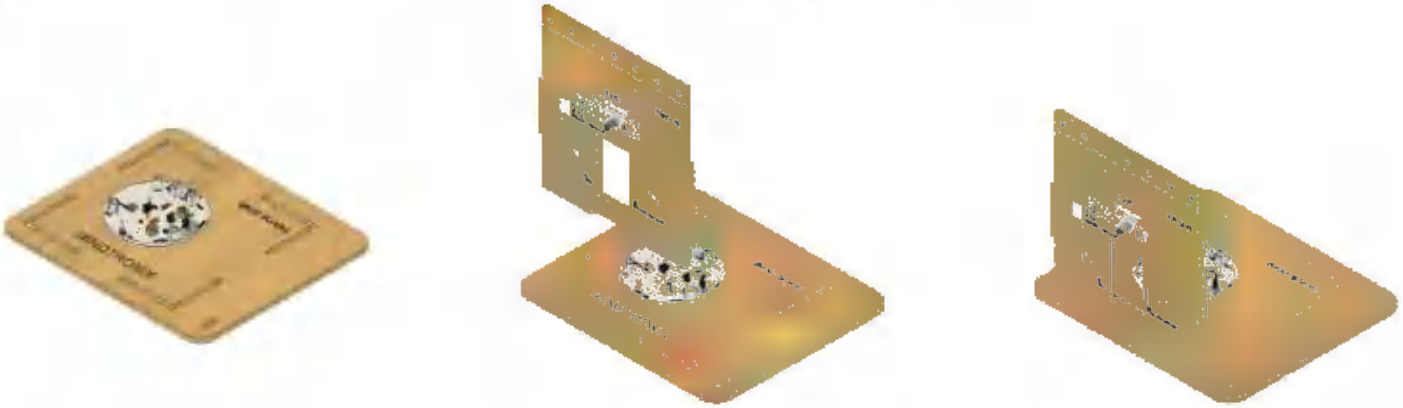
4. Connect LED to Front block af the House

BASIC ELECTRIC SWITCH CIRCUIT

BETA



5. Cannect the 2 pin fork lug connectors to the LED so that brown wire is cannected ta the "+" side of LED and black to the "-" side of LED and fix with nuts using Screwdriver



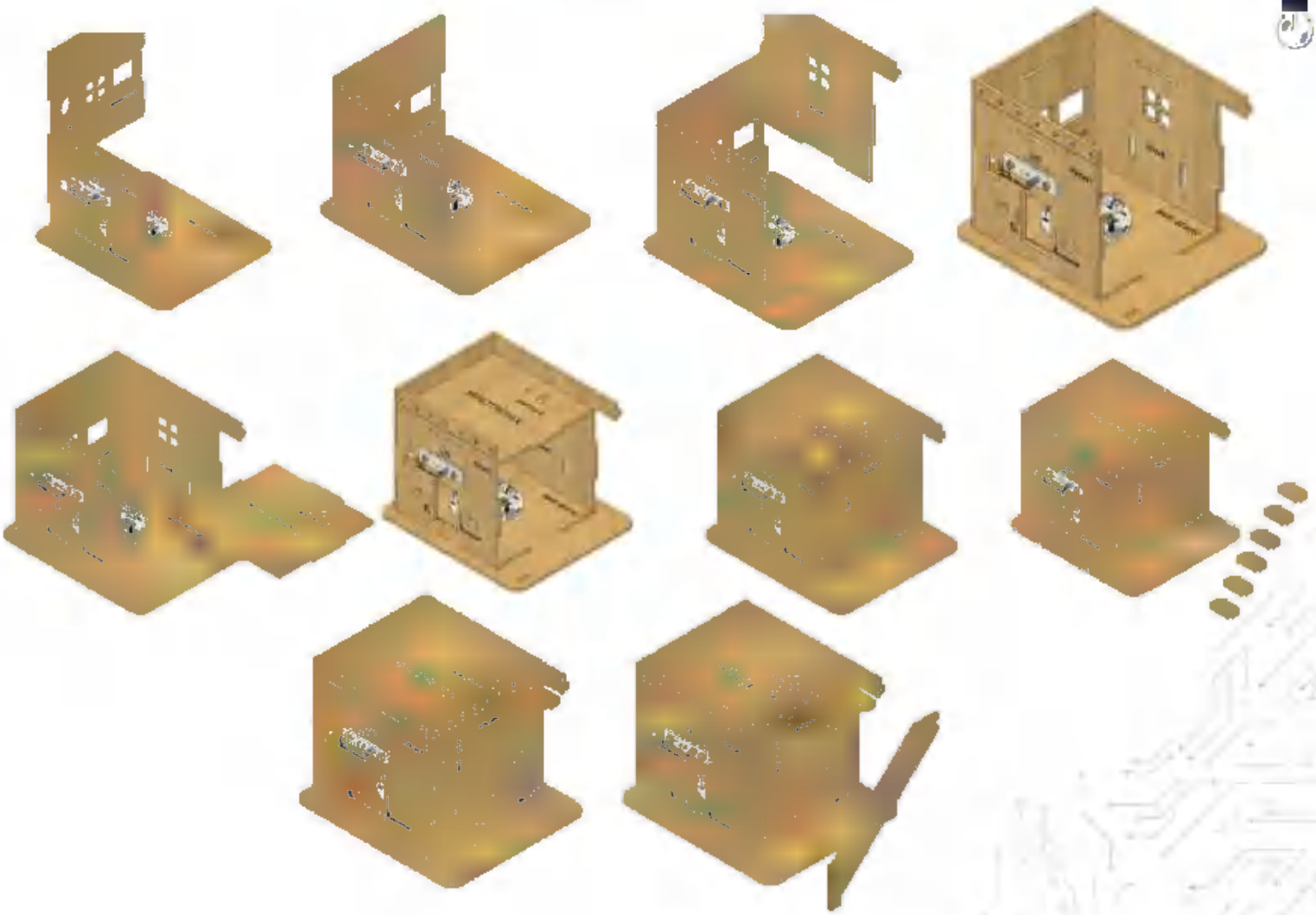
6. Fix the front block to the base board of the house

7. insert the LED's extension cable In to the CONI of main board

8. Now take Jumper pin and insert it in CON2 af main baard

9. Connect the battery in battery connector

10. Now cannections are ready, turn ON the slide switch to downwards

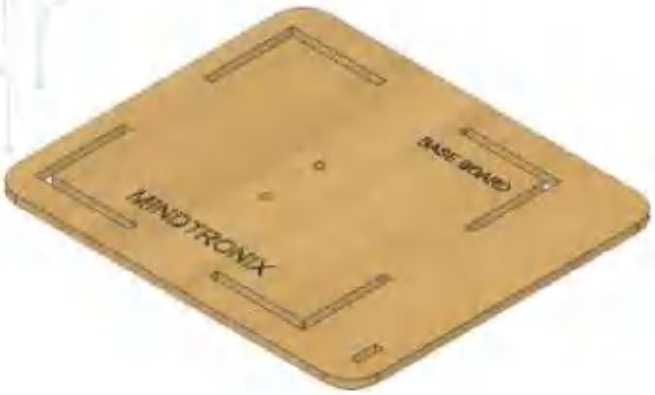


11. Fix the remaining blocks of the house

12. Naw slide the Switch in main board and observe LED

LED WITH POTENTIOMETER

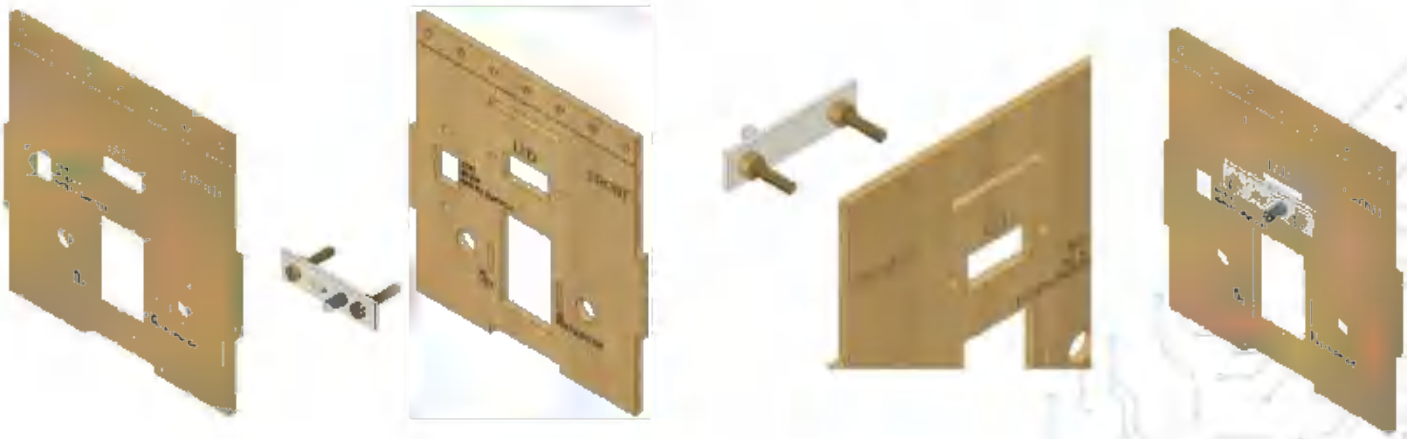
BETA



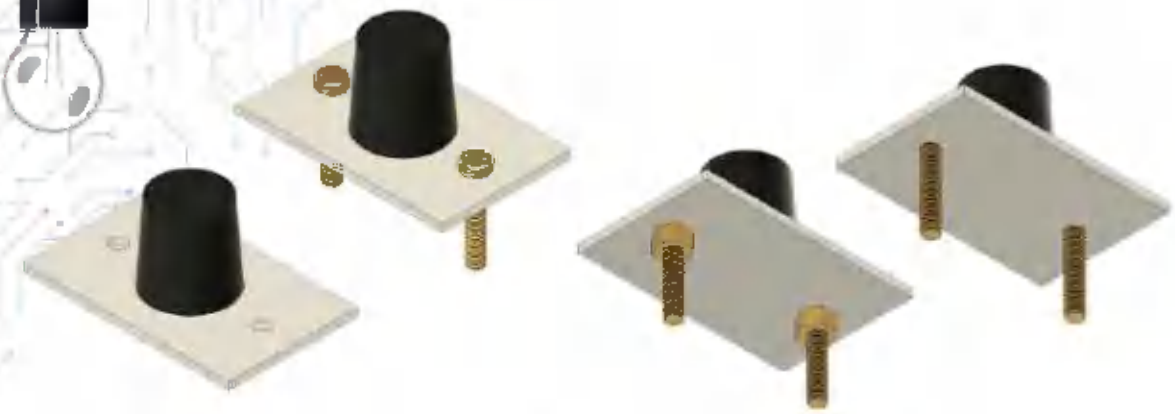
1. Take house baseboard and keep it text readable arientation

2. Now take main board and insert screws and nuts and fix it

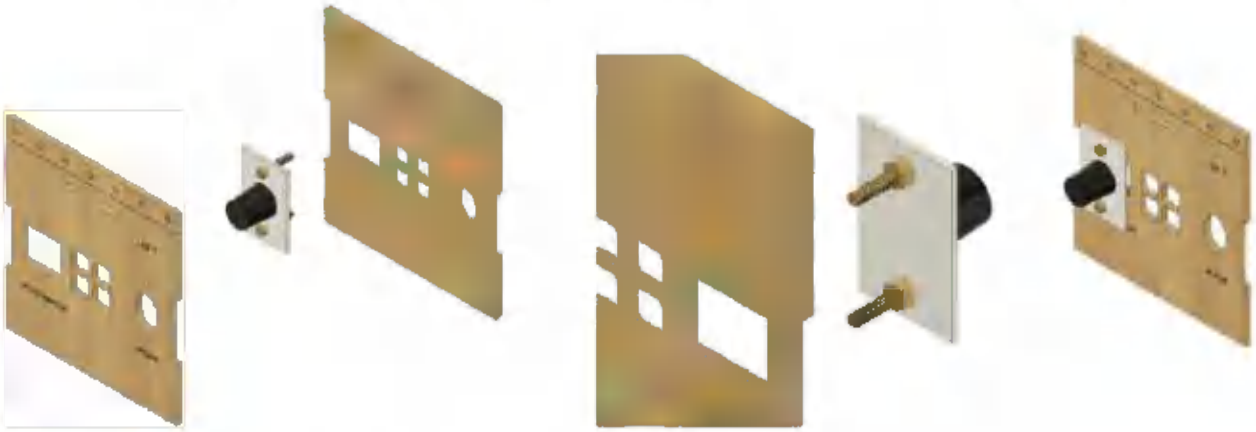
3. Take LED and attach the Screws and Nuts to it as shown in the above image



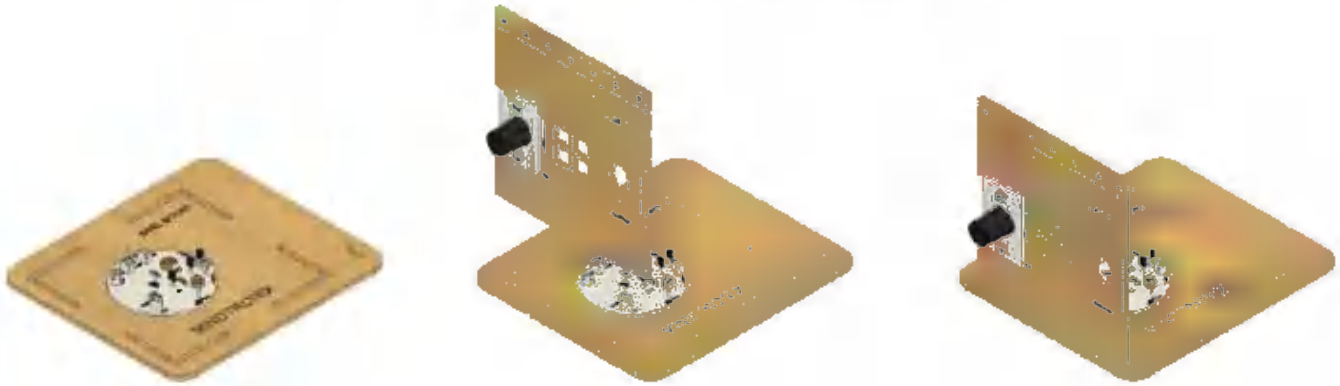
4. Connect LED to Front block af the House



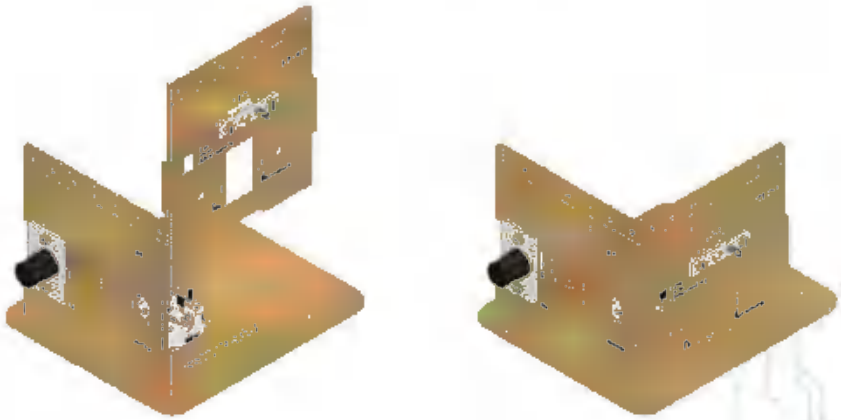
5. Now take Potentiometer and attach the Screws and Nuts to it.



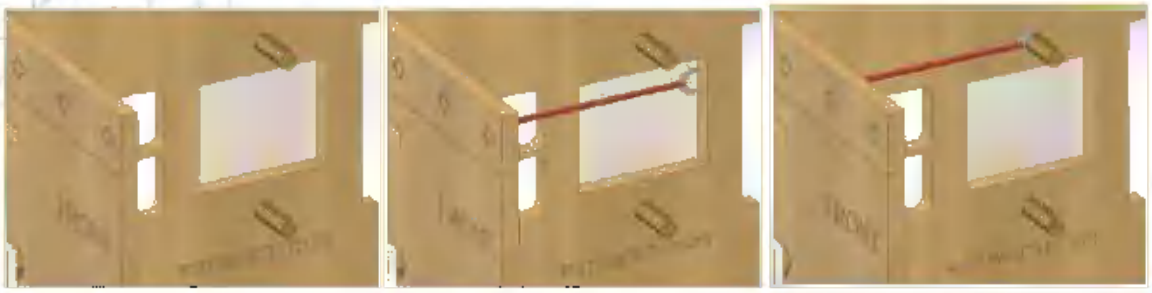
6. Connect Potentiometer to Left block of the House



7. Fix Right block to the base board of the house

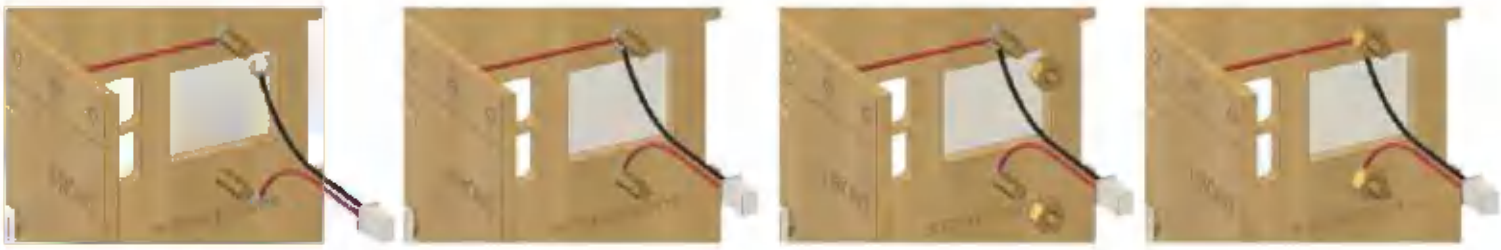


8. Fix front block to the base board of the house

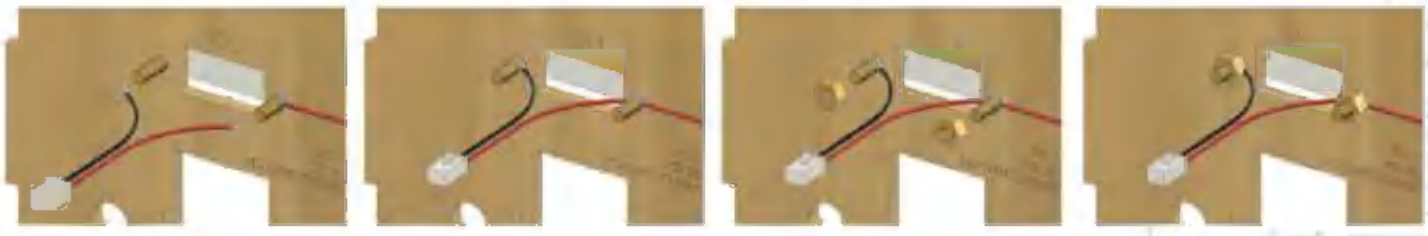


9. Connect (F-F) Fork lugs to the one terminal of the potentiometer

10. Connect the other end of the forklug to
the one terminal of the LED sensor as shown in the figure

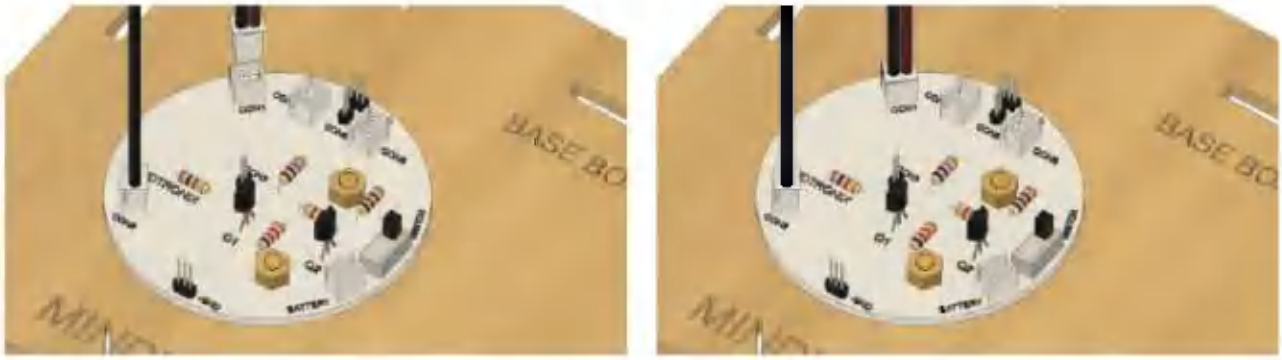


11. Attach Extension cable's fork lugs to the Potentiometer ,Now fix nuts to screws tightly



12. Attach Extension cable's fork lugs to the LED ,Now fix nuts to screws tightly

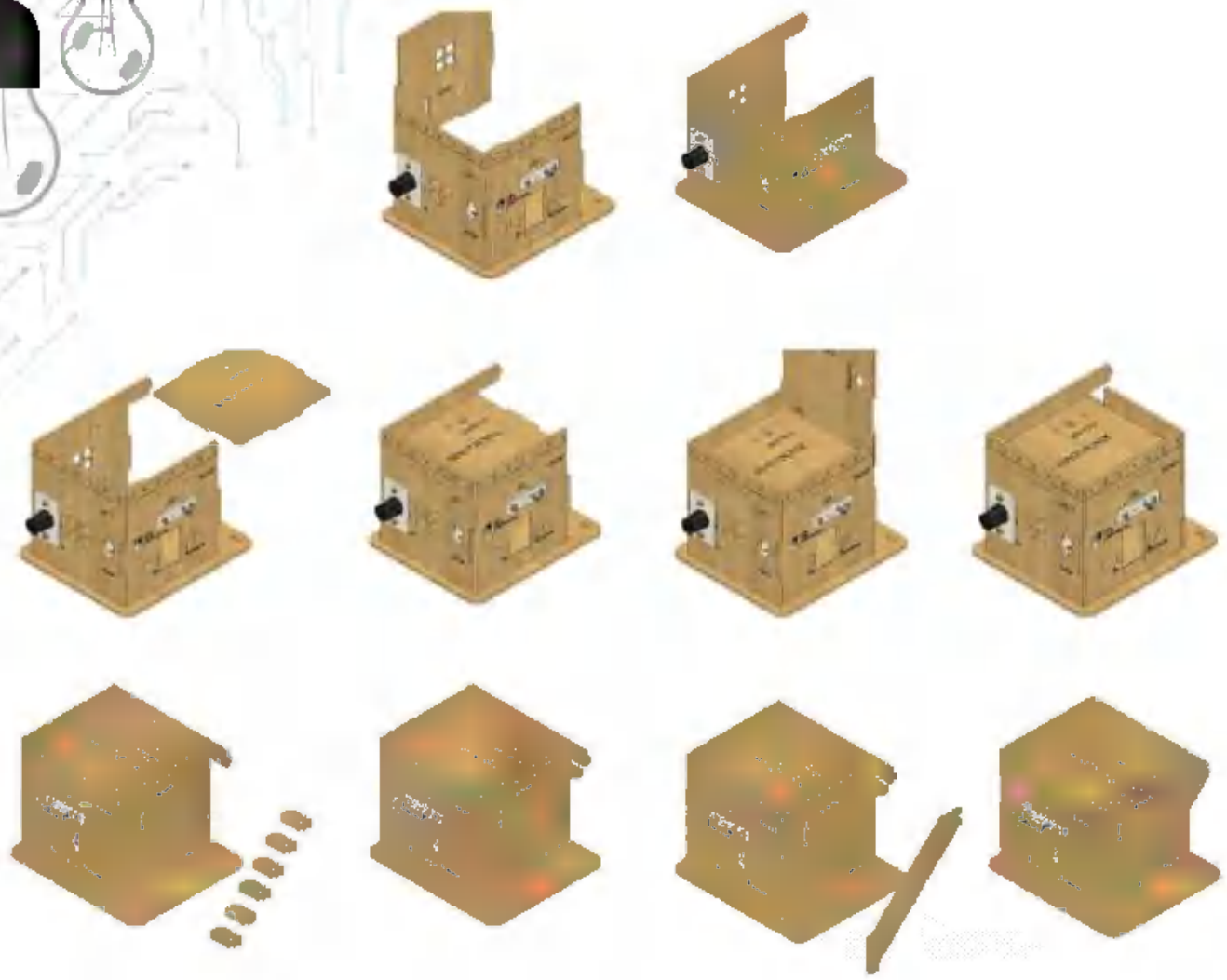
13. Insert the Potentiometer's extension cable in to the CON2 of main board



14. Insert the LED's extension cable in to the CON1 of main board

15. Connect the battery in Battery slot

16. Now connections are ready and turn on the slide switch

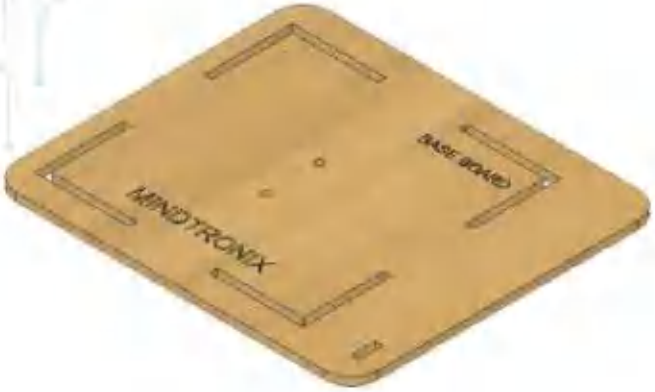


17. Buiid the remaining house with house blocks

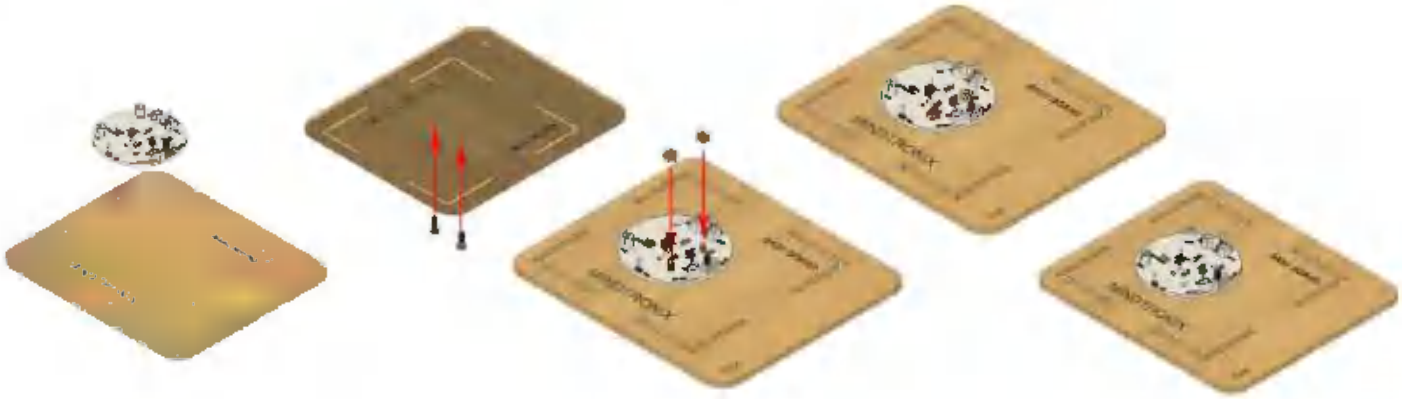
18. Now rotate the knob of the potentiometer and observe the LED

INVISIBLE LIGHT

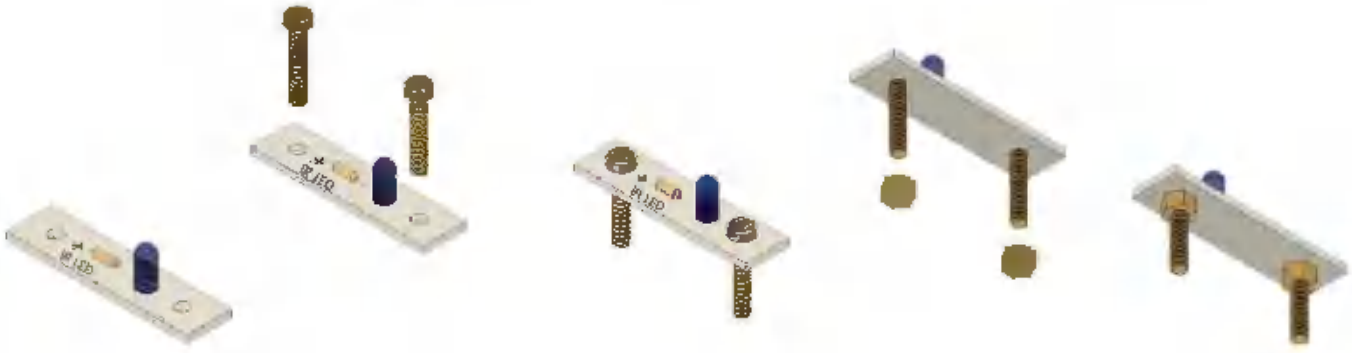
BETA



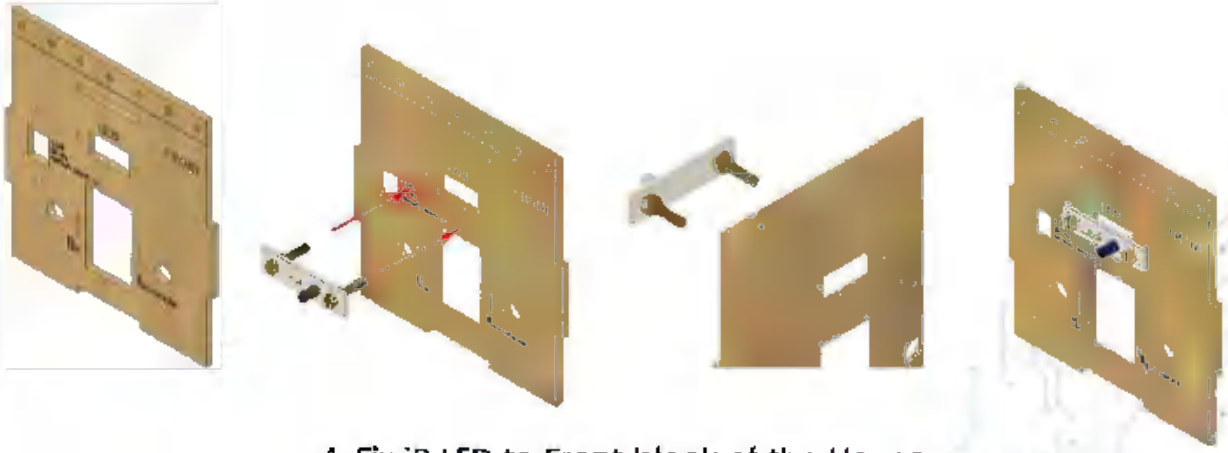
1. Take house baseboard and keep it as text readoble orientation



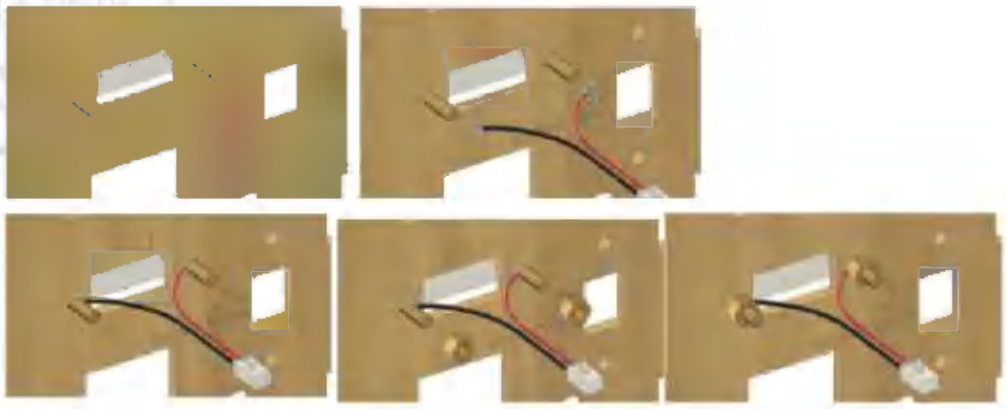
2. Now take main board and insert screws and nuts and fix it



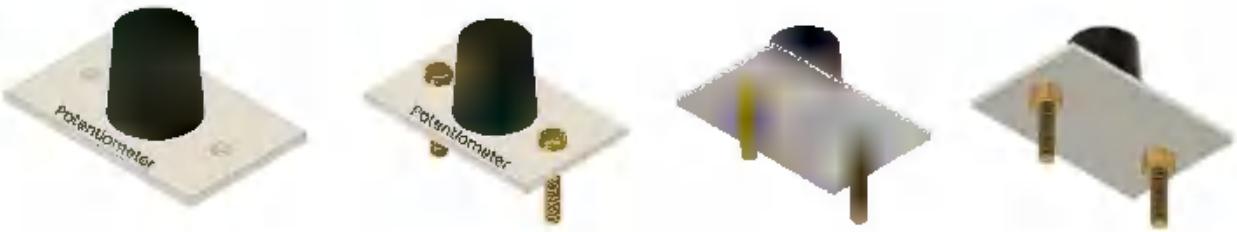
3. Take IR LED and attach the Screws and Nuts as shown in the above image



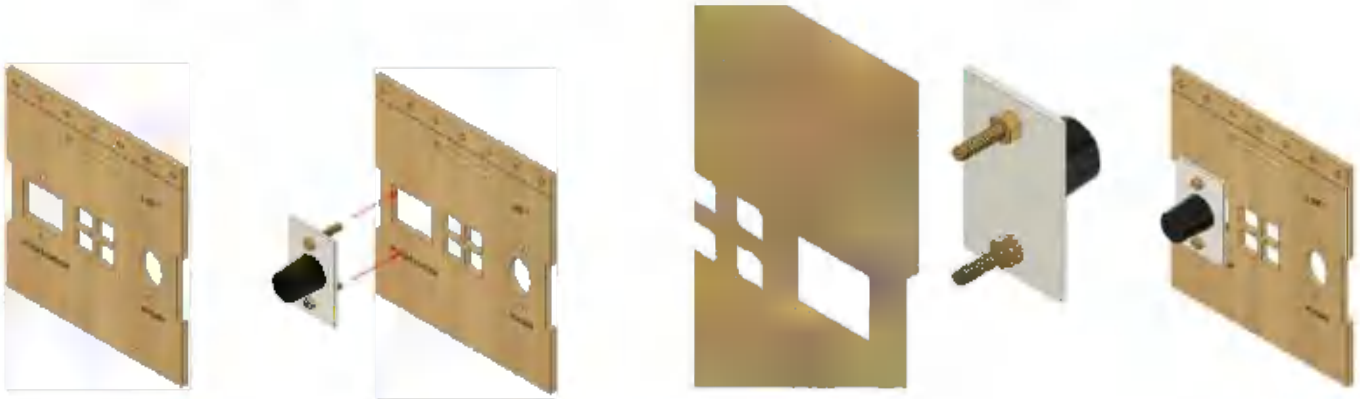
4. Fix IR LED to Front block of the House



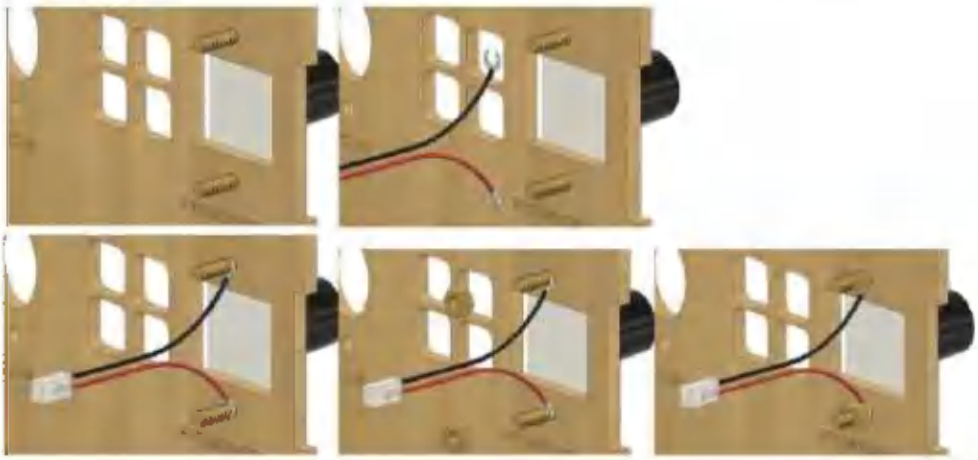
5. Connect the 2 pin fork lug connectors to the IR LED so that brown wire is connected to the "+" side of IR LED and black to the "−" side af IR LED and fix with nuts using Screwdriver



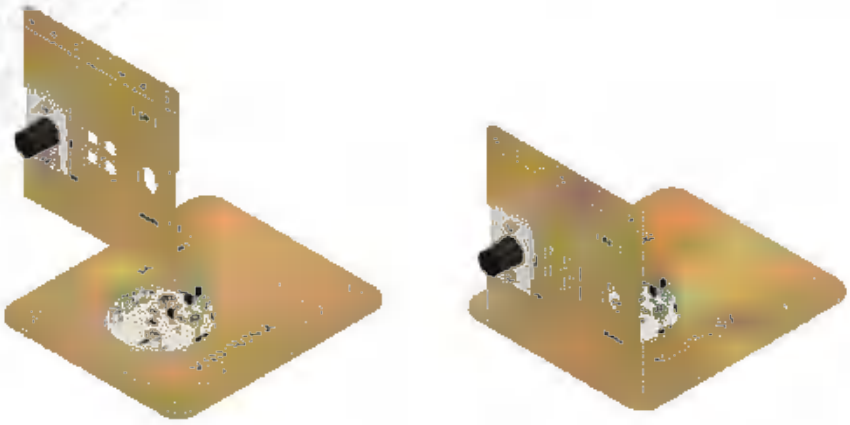
6. Now take Potentiometer and attach the Screws and Nuts to it



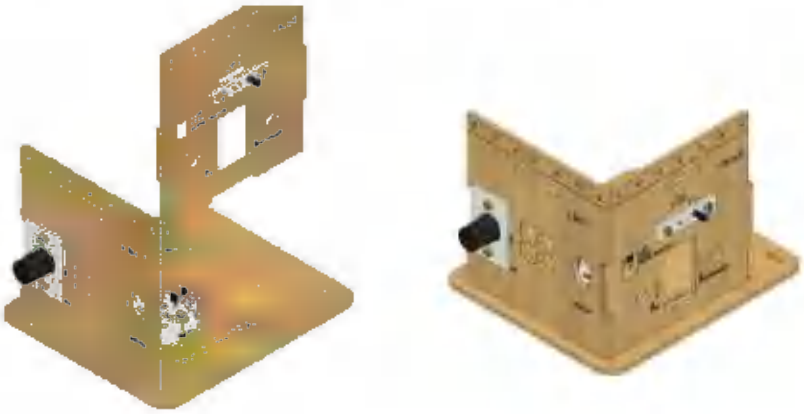
7. Fix Potentiometer to Left block of the House



8. Attach Extension cable's fork lugs, Now fix nuts to screws tightly

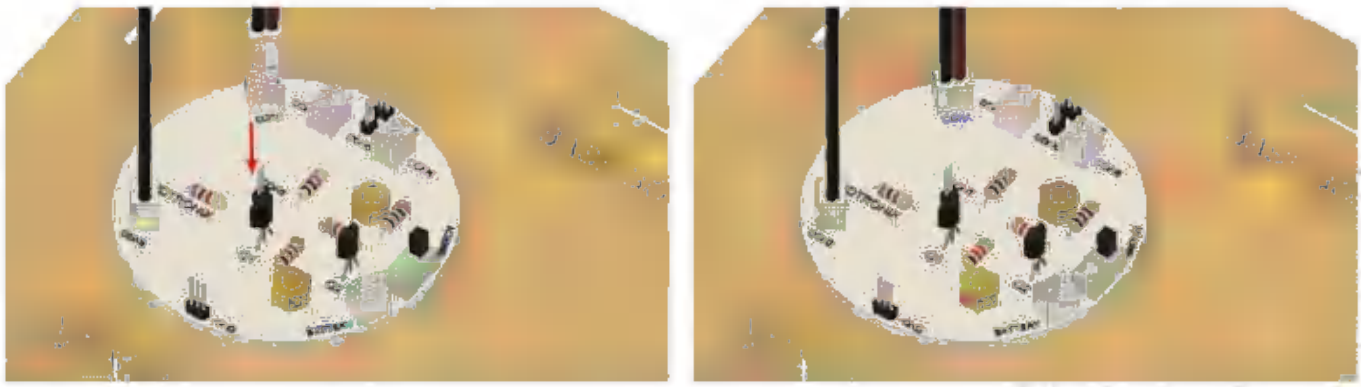


9. Fix the Left block to the base baard of the hause

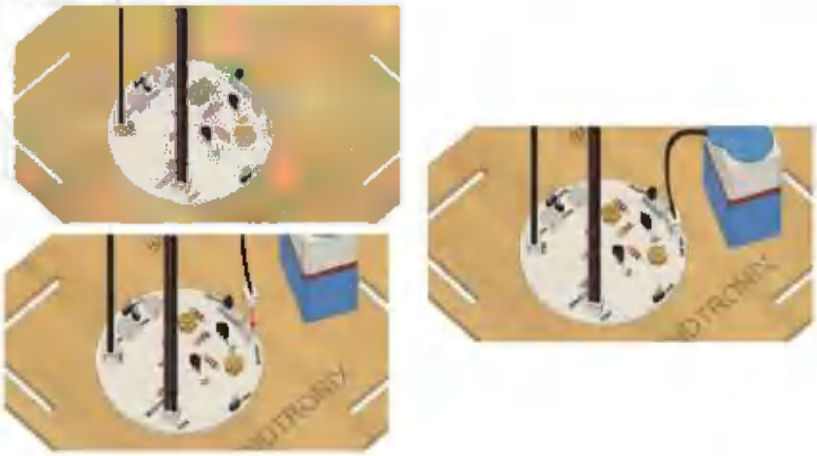


10. Fix Front block to the base board

11. Connect the Potentiometer's extension cable in to the CON2 of main board

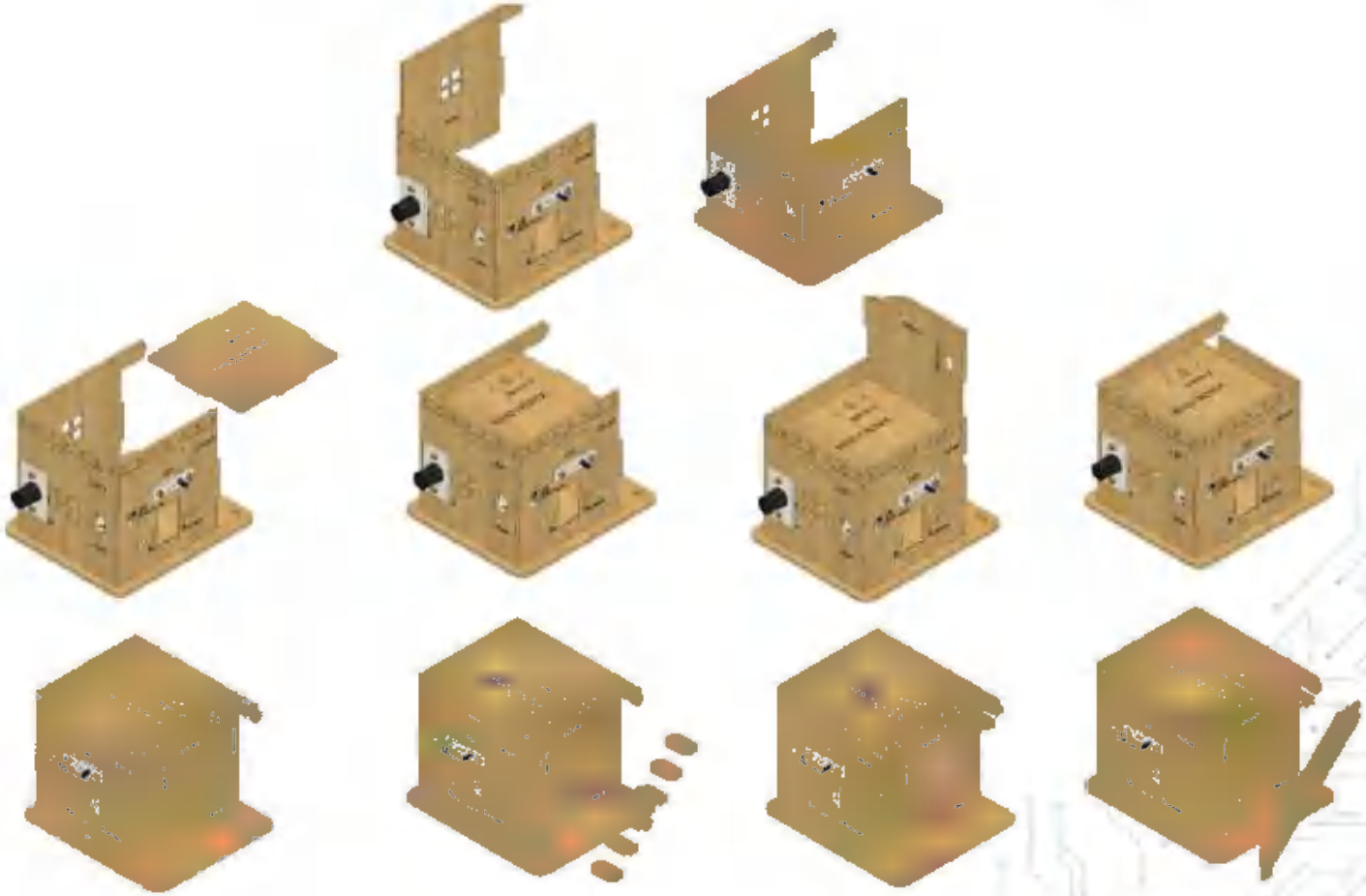


12. Connect the IR LED's extension cable in to the CON1 of main board



13. Connect the battery in the battery slot

14. Now connections are ready. Turn on slide switch to Downwards

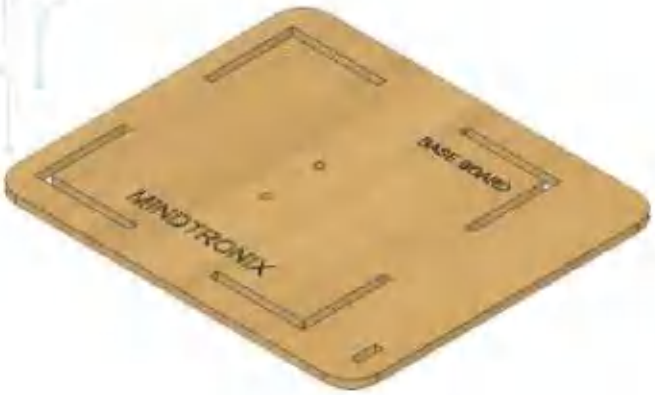


15. Fix the remaining blocks of the house

16. Now check any light visible from IR LED or if not then open your mobile camera

FLAME DETECTOR ALARM

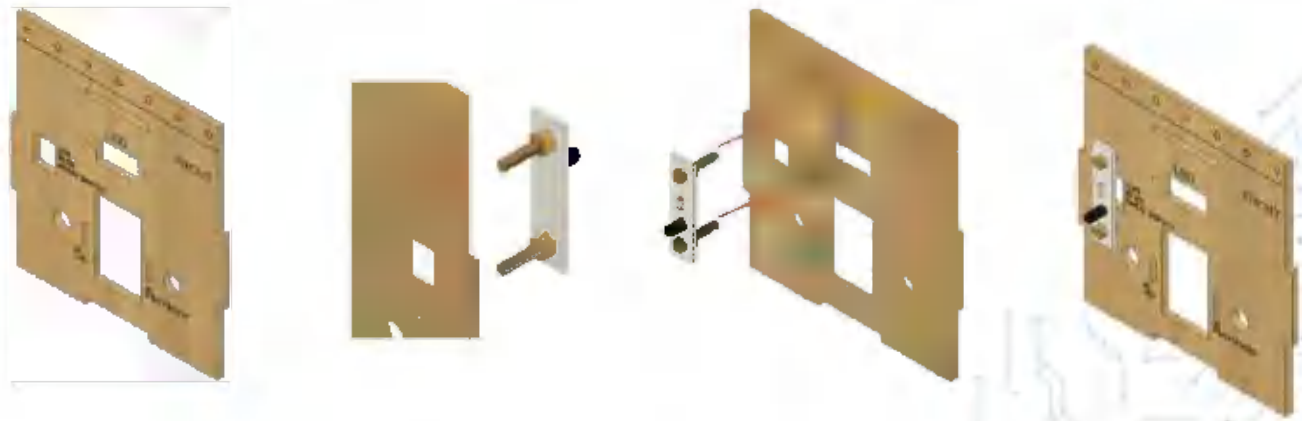
BETA



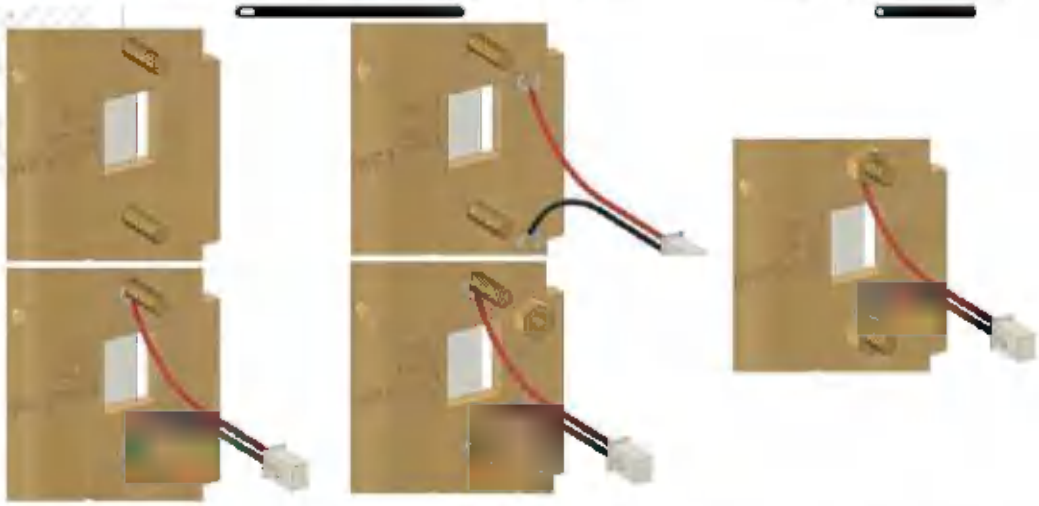
1. Take house baseboard and keep it text readable orientation

2. Now take main board and insert screws and nuts and fix it

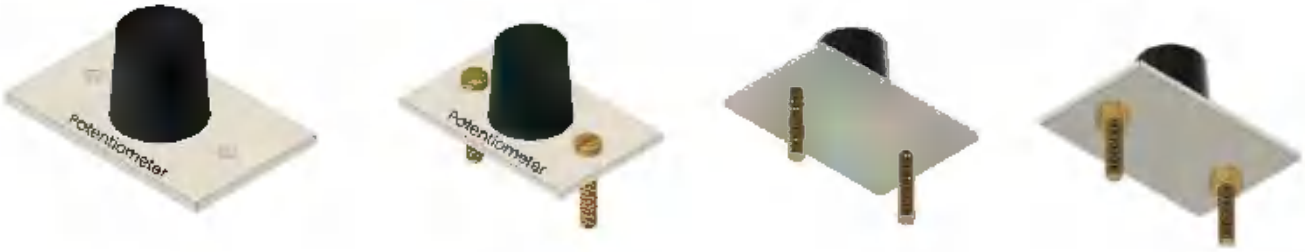
3. Take IR Photodiode Sensor and attach the Screws and Nuts as shown in the abave image



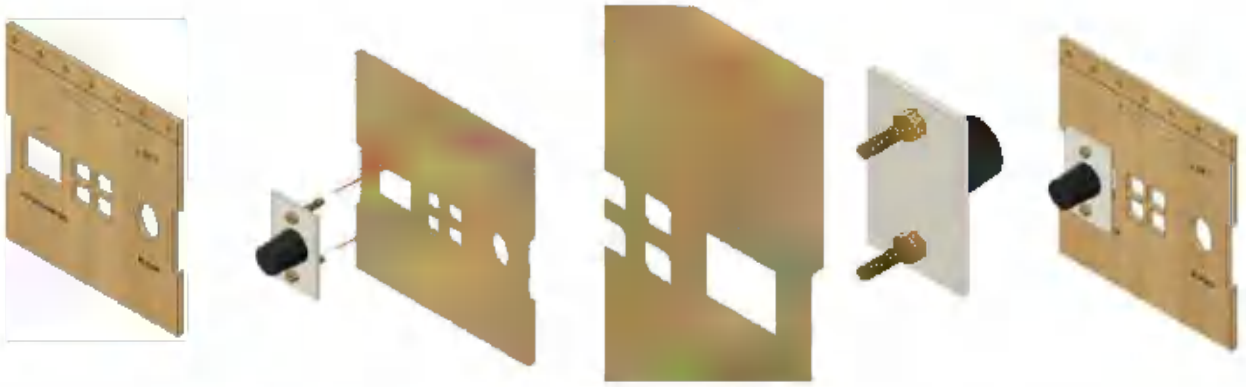
4. Connect IR Photodiode Sensor to Front blook of the House



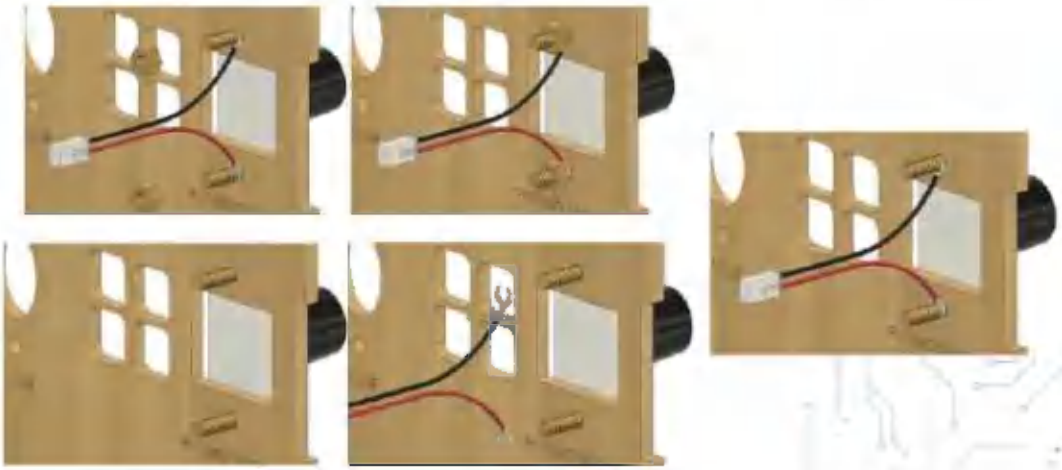
5. Connect the 2 pin fork lug connectors to the IR Photodiode so that brown wire is connected to the "+" side of IR photodiode and black to the "–" side of IR photodiode and fix with nuts using Screwdriver



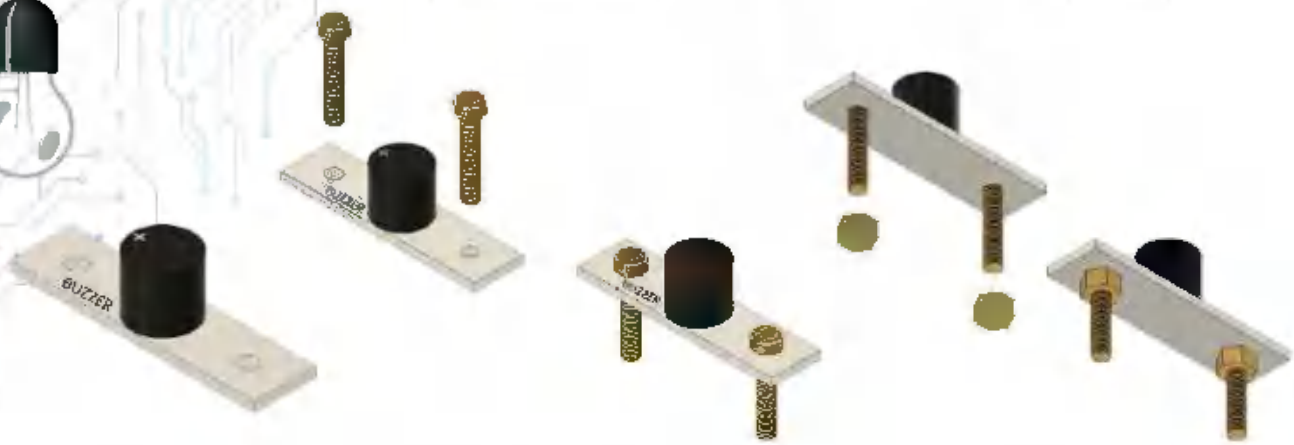
6. Now take Potentiometer and attach the Screws and Nuts to it



7. Connect Potentiometer to Right block of the House

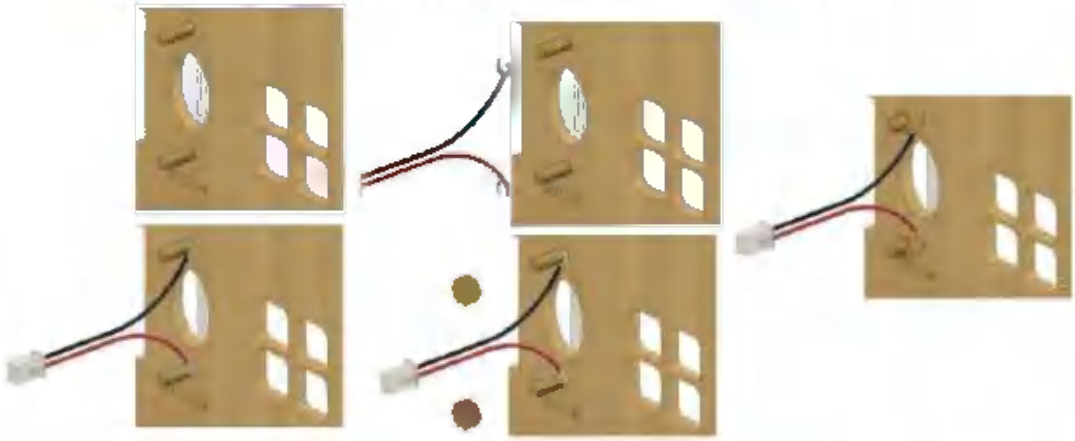


8. Attach Extension cable's fork lugs to the Potentiometer ,Now fix nuts to screws tightly

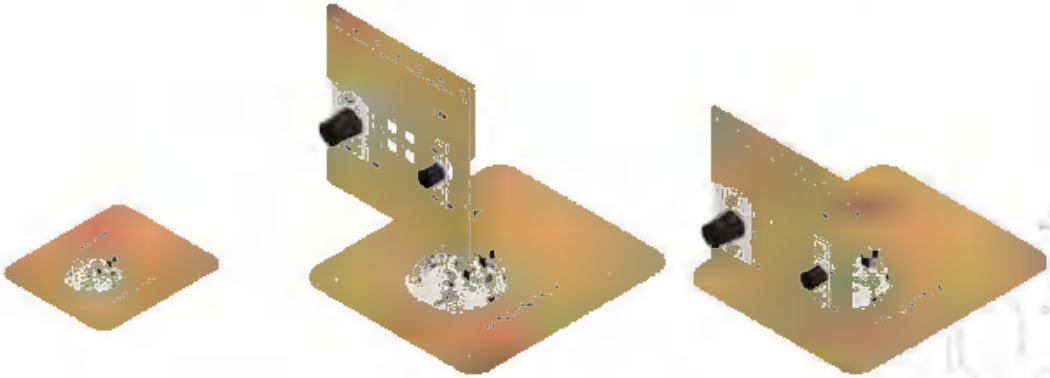


9. Take Buzzer and attach the Screws and Nuts as shown in the above image

10. Connect Buzzer to Left block of the House



11. Connect the 2 pin fork lug connectors to the Buzzer so that brown wire is connected to the "+" side of buzzer and black to the "–" side of buzzer and fix with nuts using Screwdriver



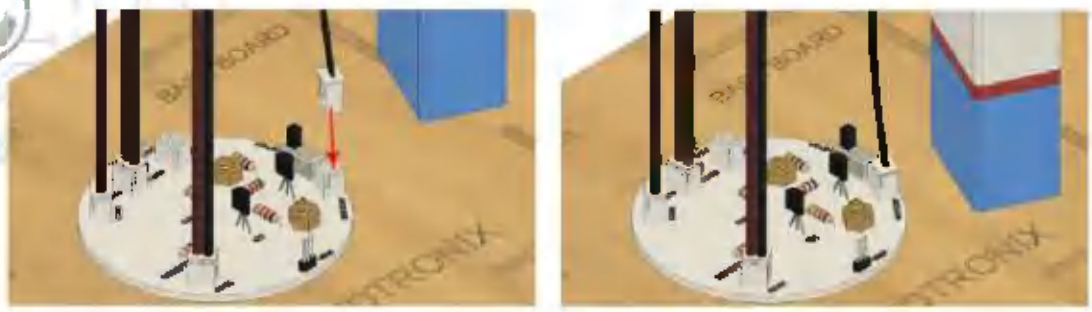
12. Fix Left block to the base board of the house

13. Fix front block to the base board of the house

14. Connect the Potentiometer's extension cable in to the CON2 of main board

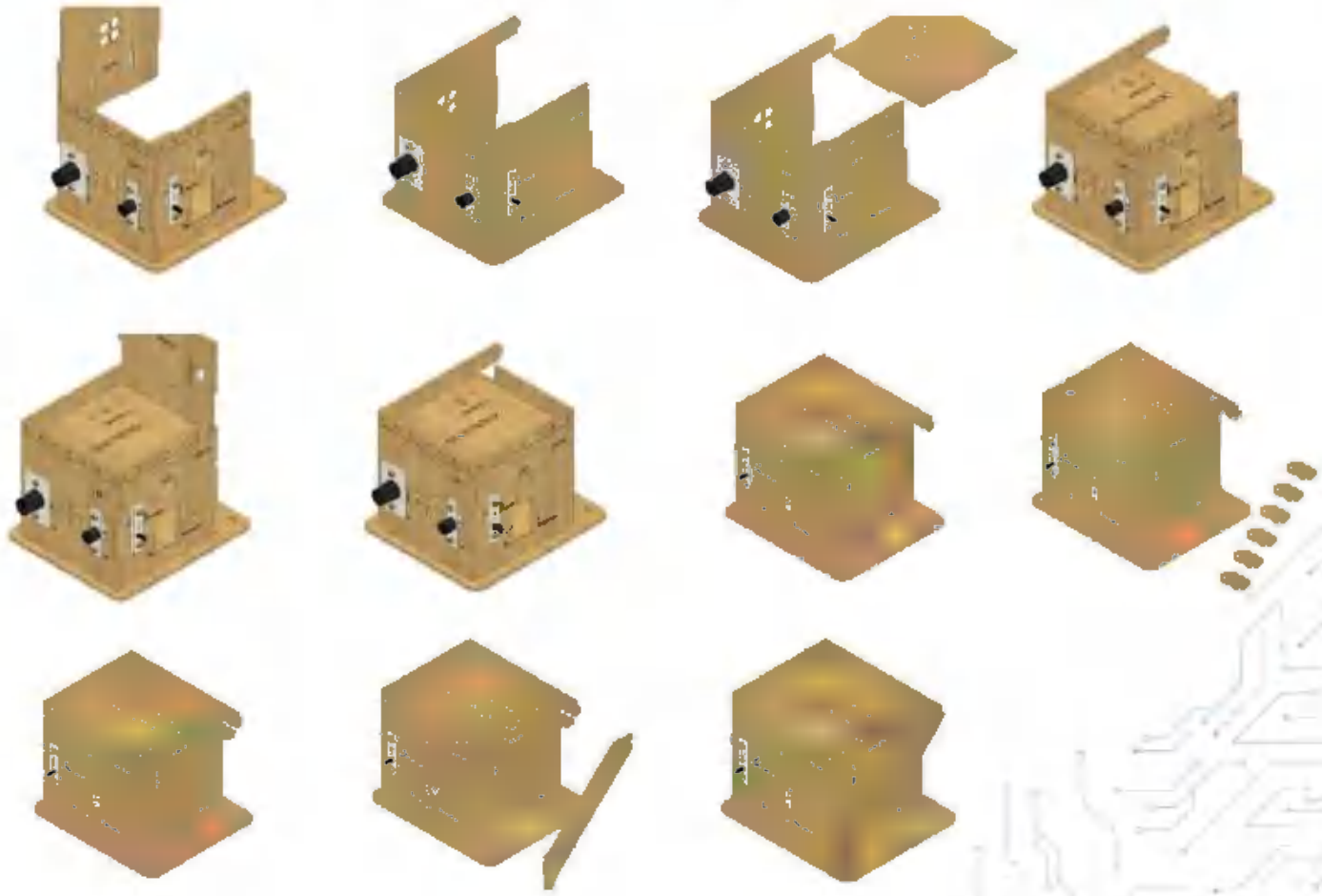
15. connect the Buzzer's extension cable in to the CON4 of main board

16. Connect the IR Photodiode Sensor's extension cable in to the CON1 of main board



17. Connect the battery to 9v snapper and then in to battery connection

18. Now connections are ready, Powering the mainboard by slide the Switch to downwards

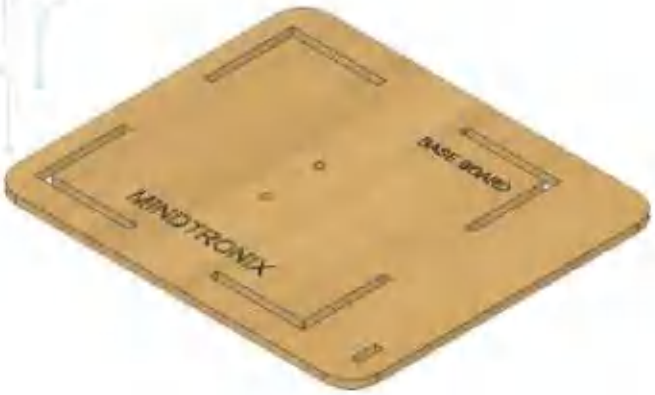


19. Build the remaining house with house blocks

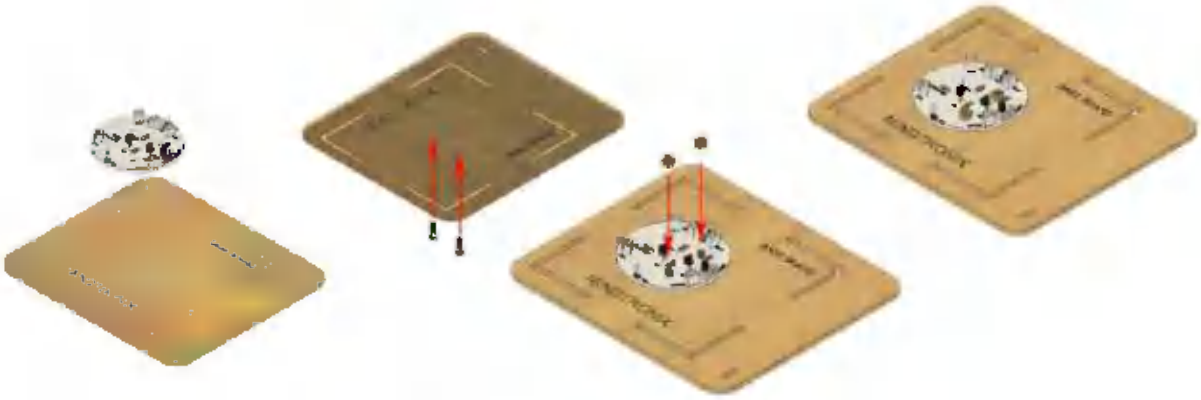
20. Now rotate the knob of the potentiometer
to make its sensitivity, Observe the Buzzer while when lighting a match stick near to it.

TWO WAY STAIR CASE SWITCH CIRCUIT

BETA

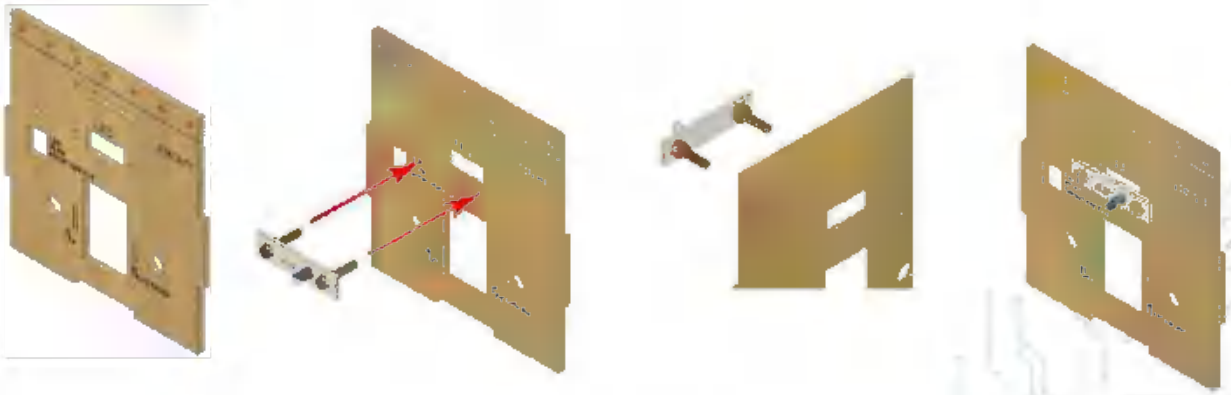


1. Take house baseboard and keep it as text readable orientatian



2. Now take main board and insert screws and nuts and fix it

3. Take LED and attach the Screws and Nuts to it as shown in the above image

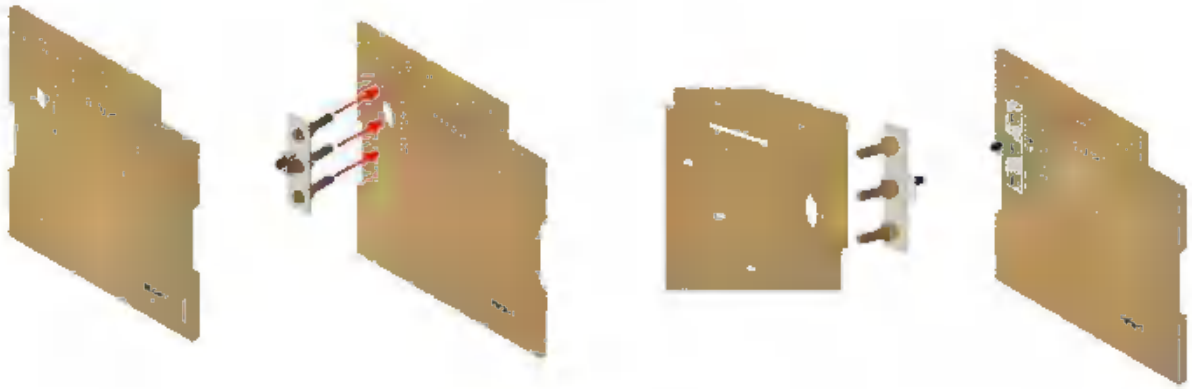


4. Connect LED to Front block af the House

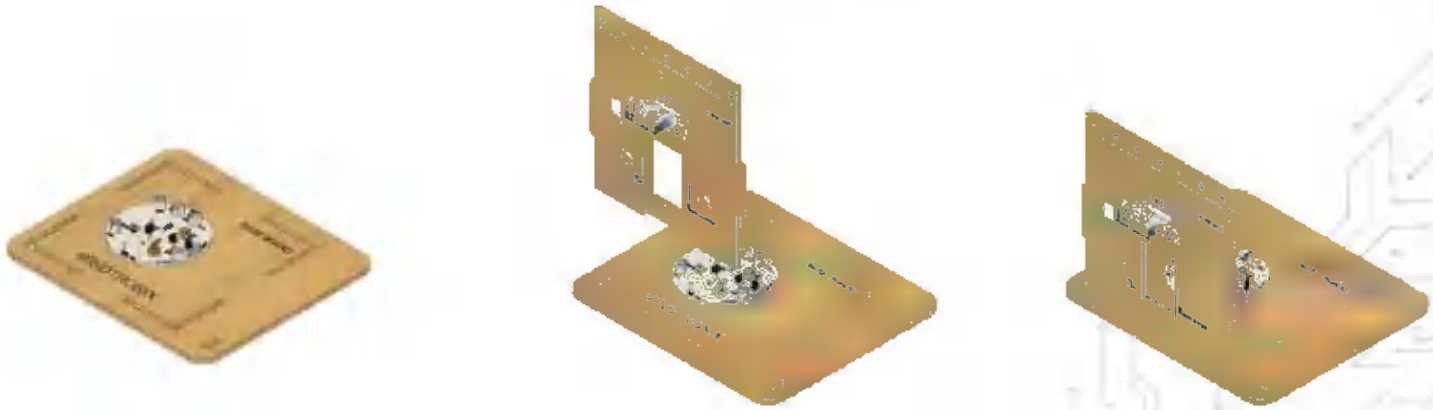
TWO WAY STAIR CASE SWITCH CIRCUIT BETA

5. Take Switch and attach the Screws and Nuts ta Front black af house

6. Fix one switch in the tap roof

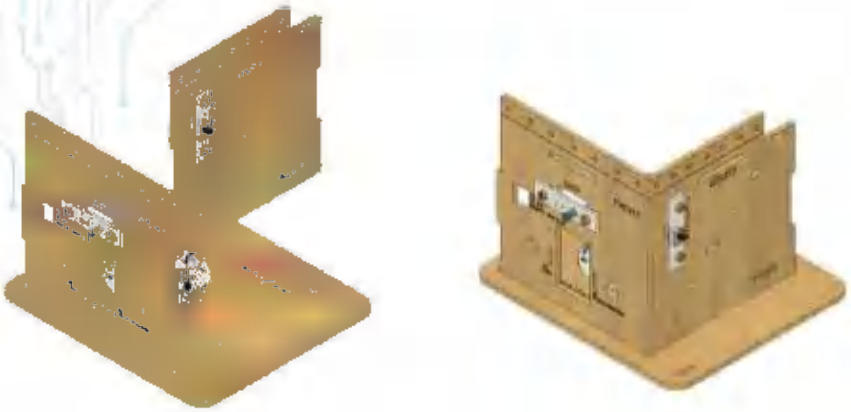


7. Fix one switch in the Right Block

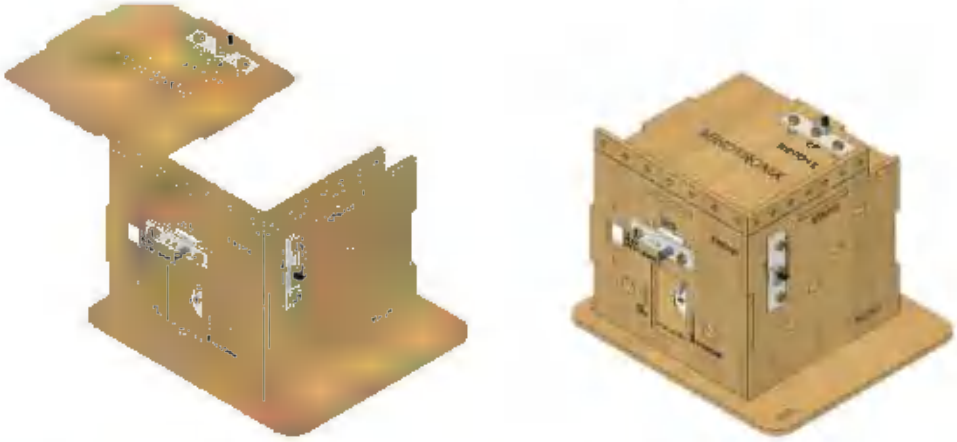


8. Fix the front block to the base baard of the house

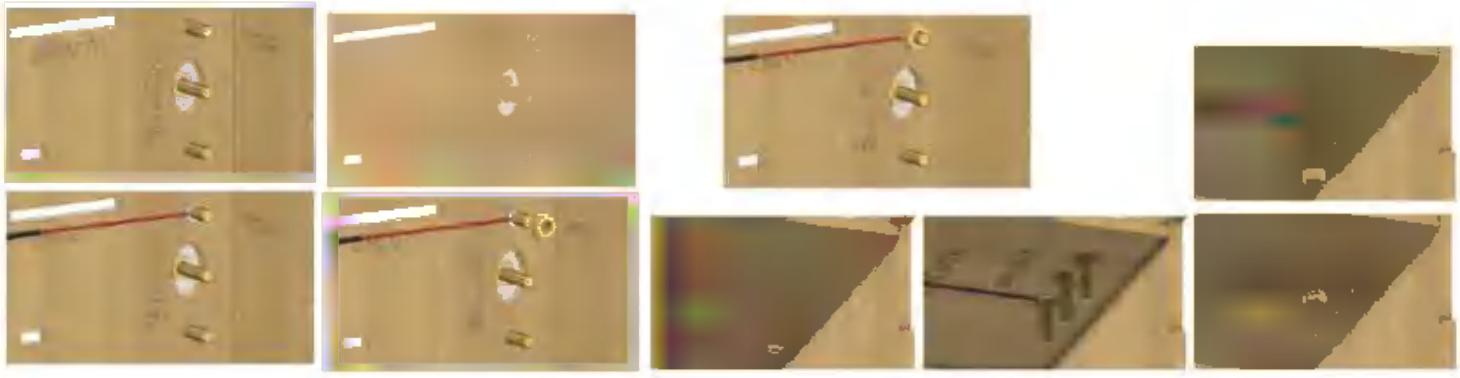
TWO WAY STAIR CASE SWITCH CIRCUIT BETA



9. Fix the Right block to the base baard of the hause



10. Fix the Top block to the base board of the house

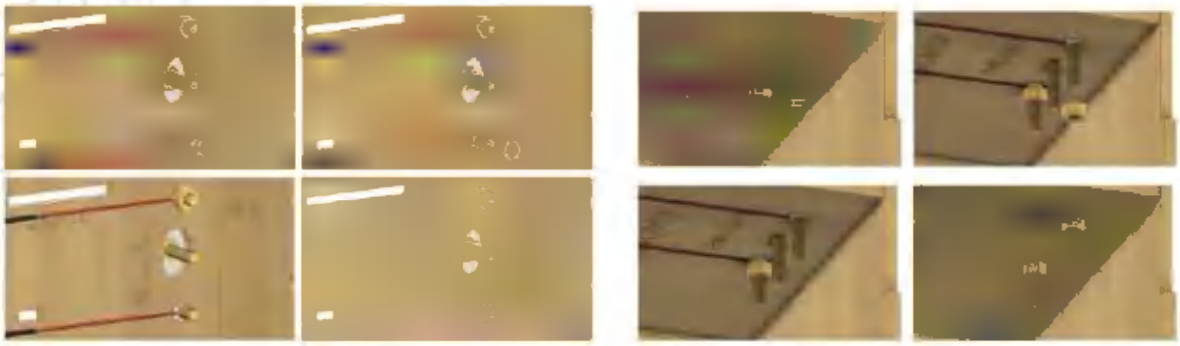


11. Connect the two terminals of switches like this, with FL- FL Cannecting wire.

12. Connect in this way

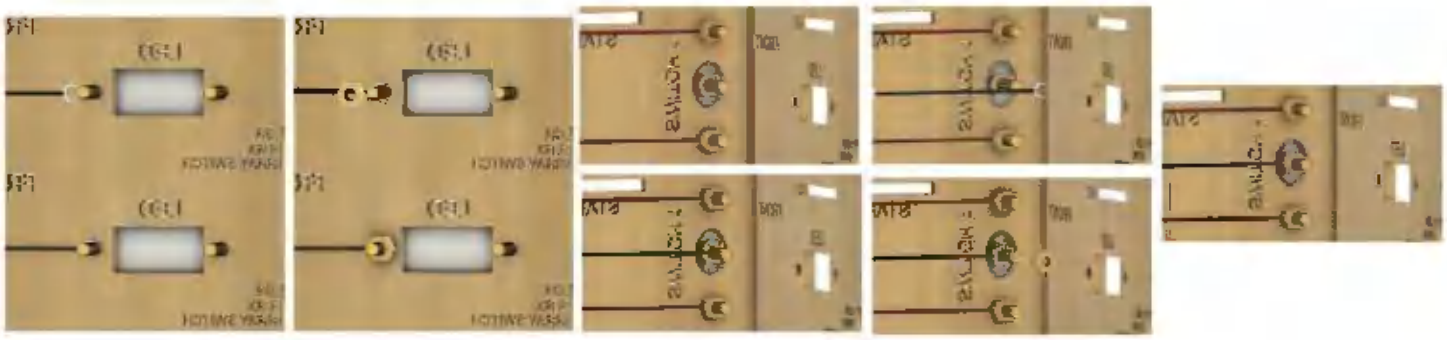
TWO WAY STAIR CASE SWITCH CIRCUIT

BETA

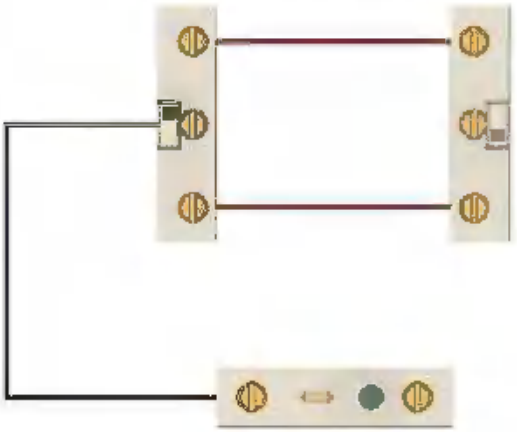


13. Connect the another two terminals of switches like this, using (FL - FL) connecting wire

14. Connect the two terminals of switches like this



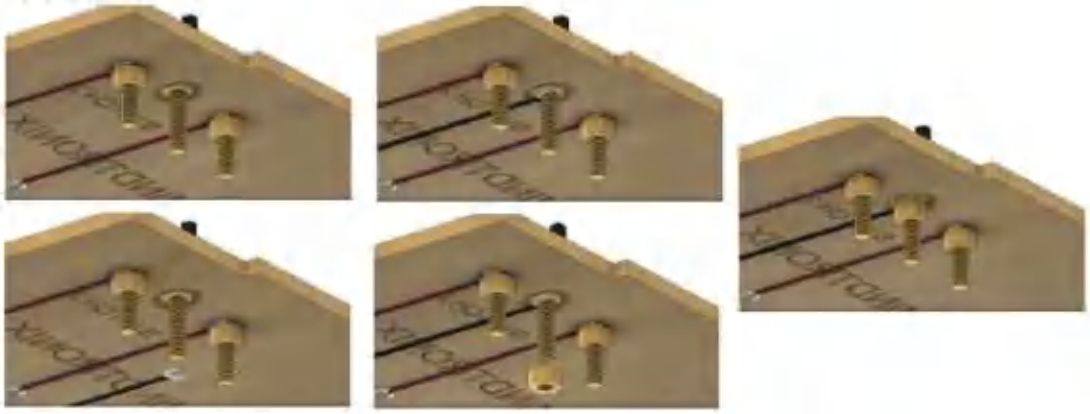
15. Take a Connecting wire (FL-FL) and connect Farklug to the center terminal of switch 1 to the one end of led terminal +ve



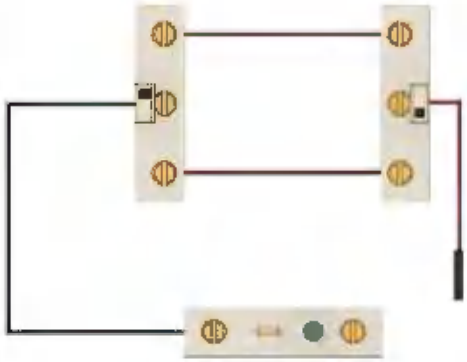
16. like this

TWO WAY STAIR CASE SWITCH CIRCUIT

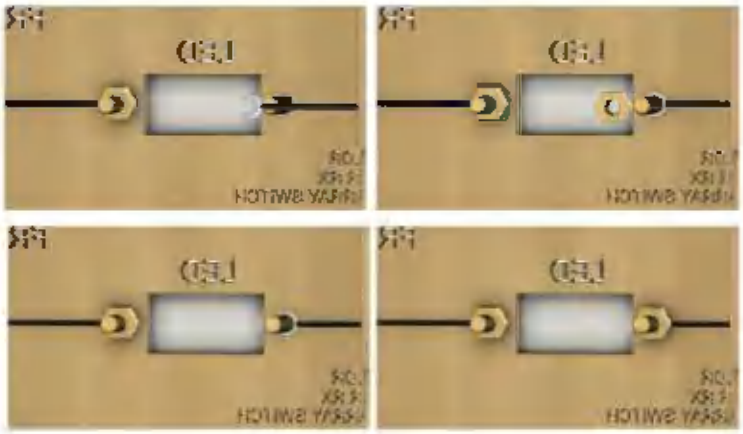
BETA



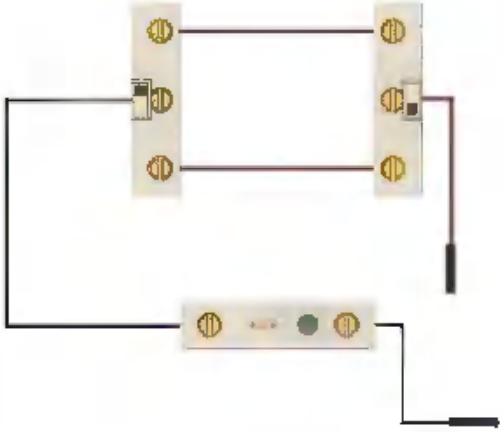
17. Take a connecting wire (F - FL) and Connet Forklug to the center terminal of the Switch 2



18. like this ⬆



19. Take a Connecting wire(F-FL) and connect forklug to the ather end of the Led -ve



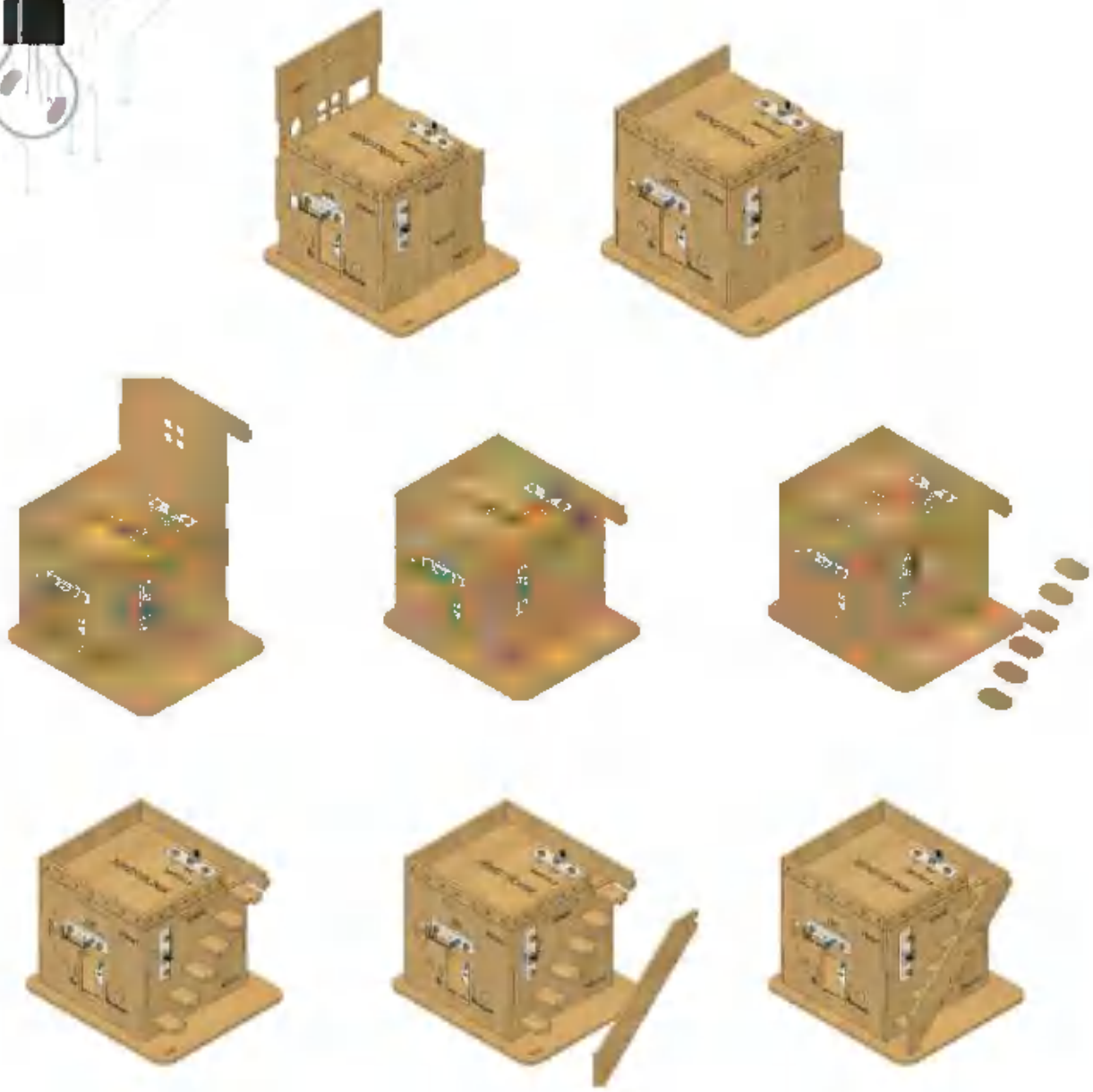
20. In this way ⬆

21. Cannect the connecting wire female from Switch 2 and connect in +VCC in the moin board

22. Connect the connecting wire female from LED and connect in -GND in the main board

23. Cannect the battery using battery snapper in battery connectar in mainboard

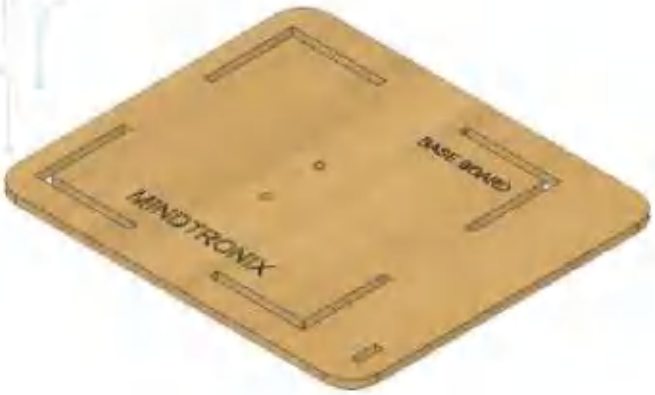
24. Naw the connections are ready
Now slide the Switch in main baard to down to make powering the main board



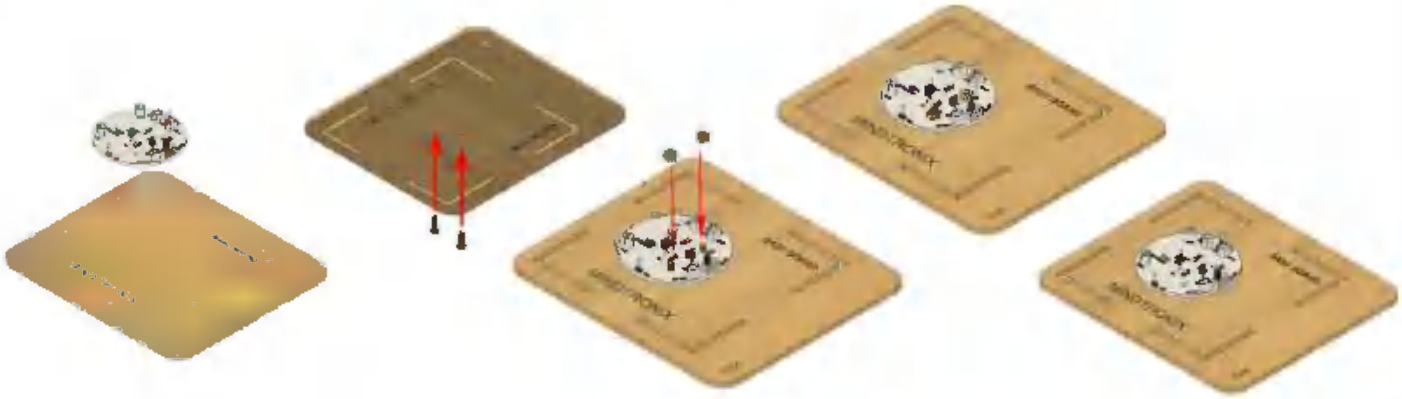
25. Build the remaining house with house blocks

26. Now slide the Switches of Front block and top block and observe LED

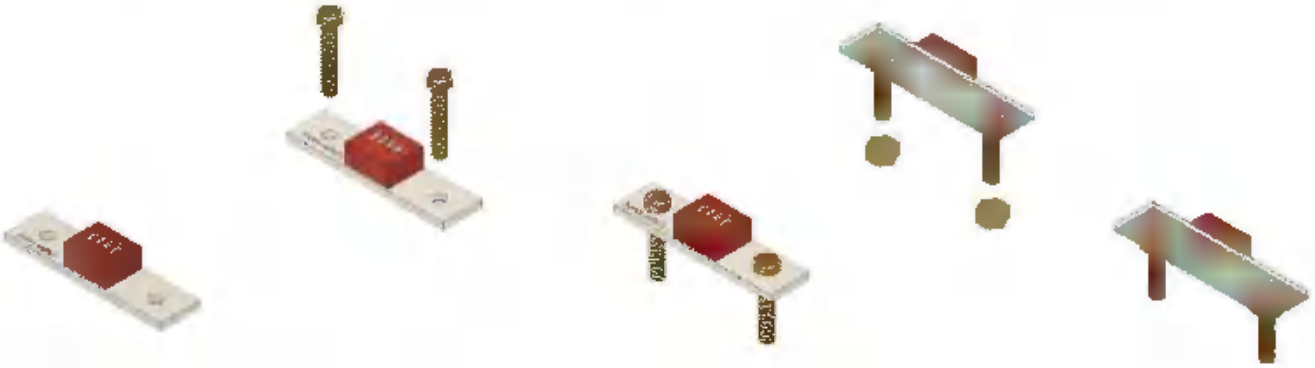
ELECTRONIC CODE LOCK SWITCH FOR DOORS BETA



1. Take house baseboard and keep it as text readable orientatian

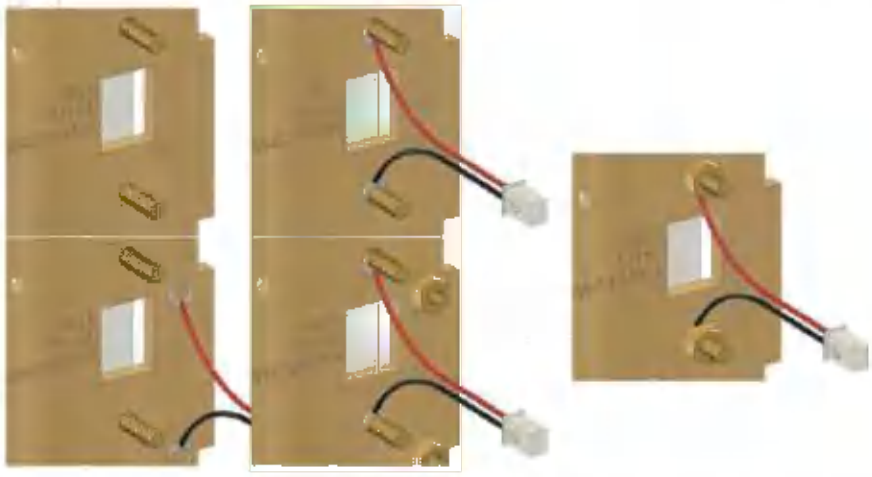


2. Now take main board and insert screws and nuts and fix it

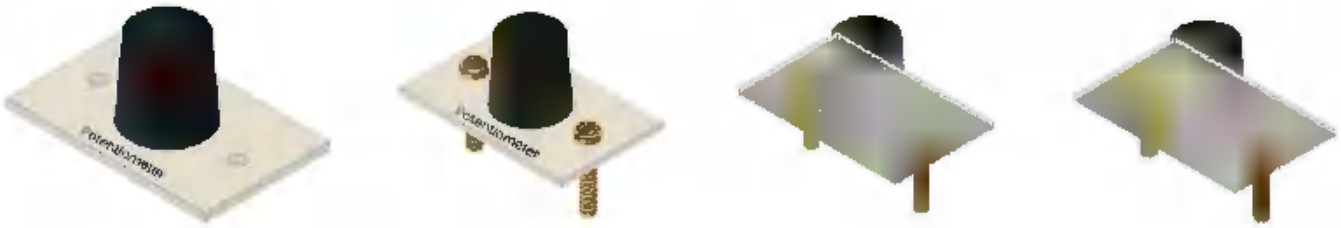


3. Take Dip Array switch and attach the Screws and Nuts as shown in the abave image

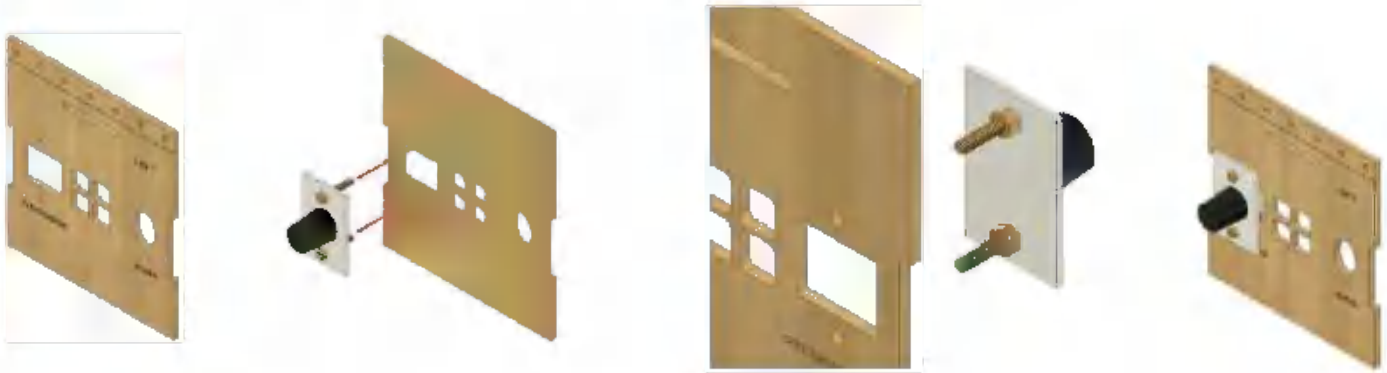
4. insert Dip array switch at front biock af the hause



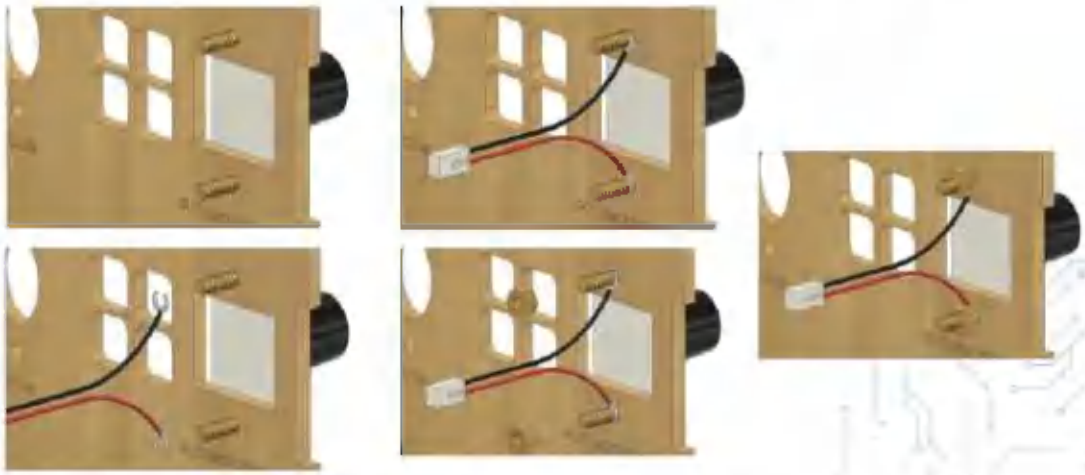
5. Attach Extensian cabie's fork lugs to it, Now fix nuts to screws tightly



6. Now take Potentiometer and attach the Screws and Nuts to it



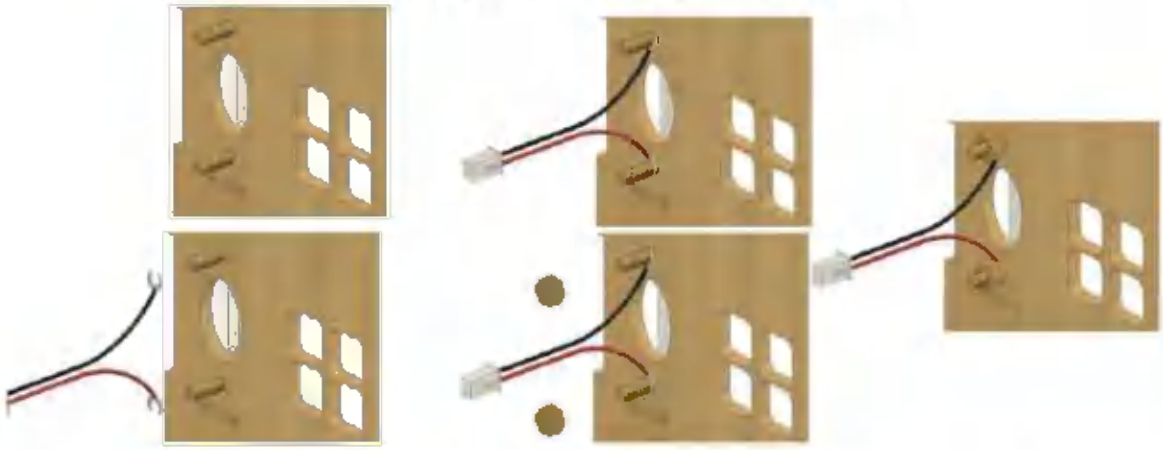
7. Connect Potentiometer to Left biock of the House



8. Attach Extension cabie's fark iugs ta Potentiometer Now fix nuts ta screws tightly

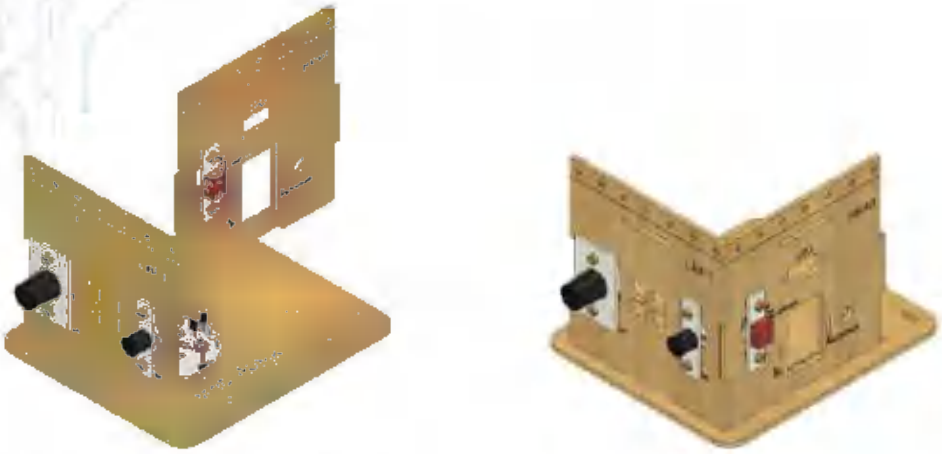
9. Take Buzzer and attach the Screws and Nuts as shawn in the abave image

i0. Connect Buzzer to Left biock of the House



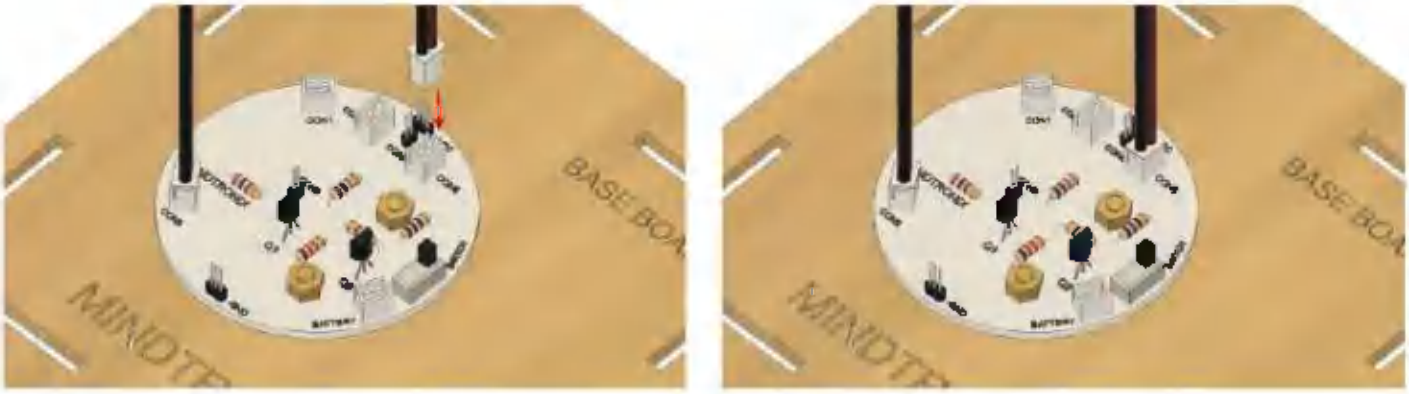
11. Attach Extensian cable's fork iugs(Brown wire to Buzzer +, Biack wire to Buzzer −), Now fix nuts to screws tightiy

i2. Fix Left biock tc the base board of the hause

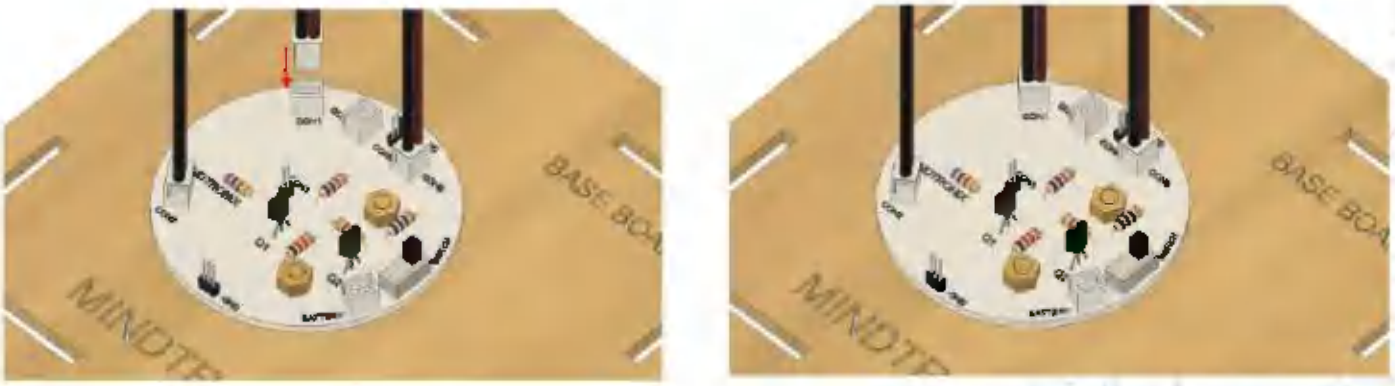


13. Fix front block to the base board of the house

14. Insert the Potentiometer's extension cable in to the CON2 of main board



15. Insert the Buzzer's extension cable in to the CON6 of main board



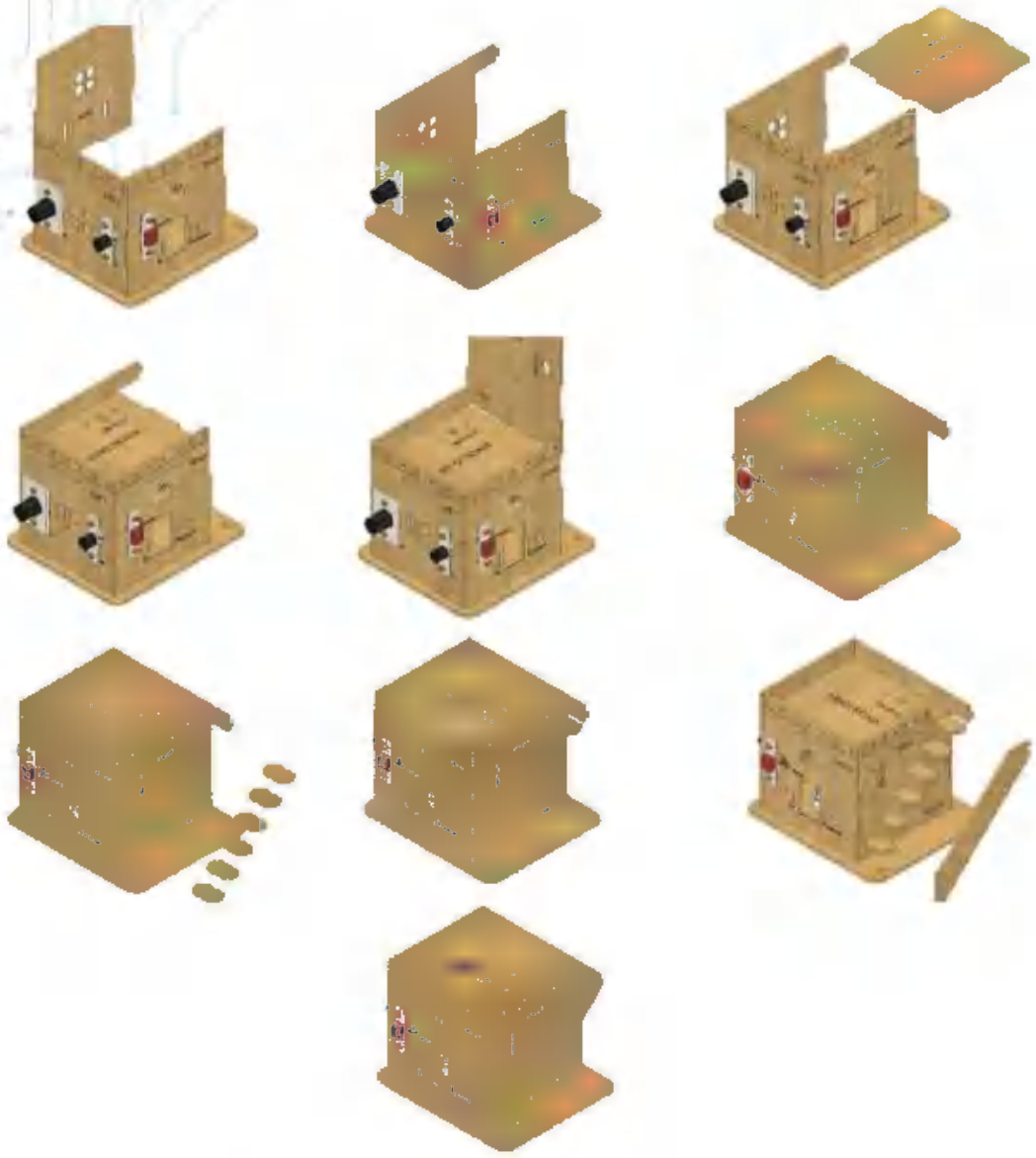
16. insert the DiP array switch extension cable in to the CONi af main board

17. Take a Jumper Pin and insert in ta the CON4 of main board

18. Take a Connecting wire (F-F) and Insert one Female end in to the First pin of CON3, Now insert another female end in to the second pin of CON5

19. Connect the battery

20. Now connections are ready ,Powering the main board by slide the Switch to Dawnwards

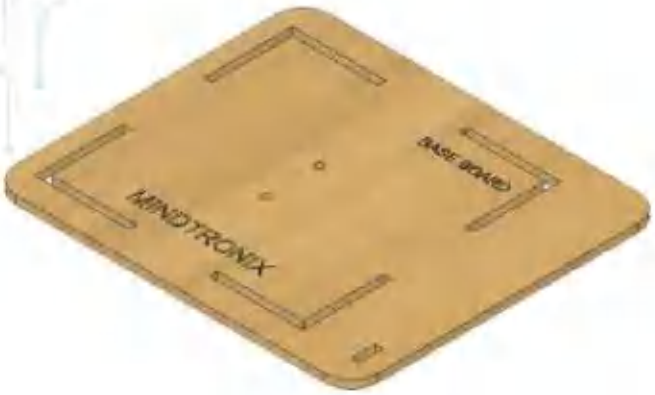


21. Fix the remaining blocks of the hause

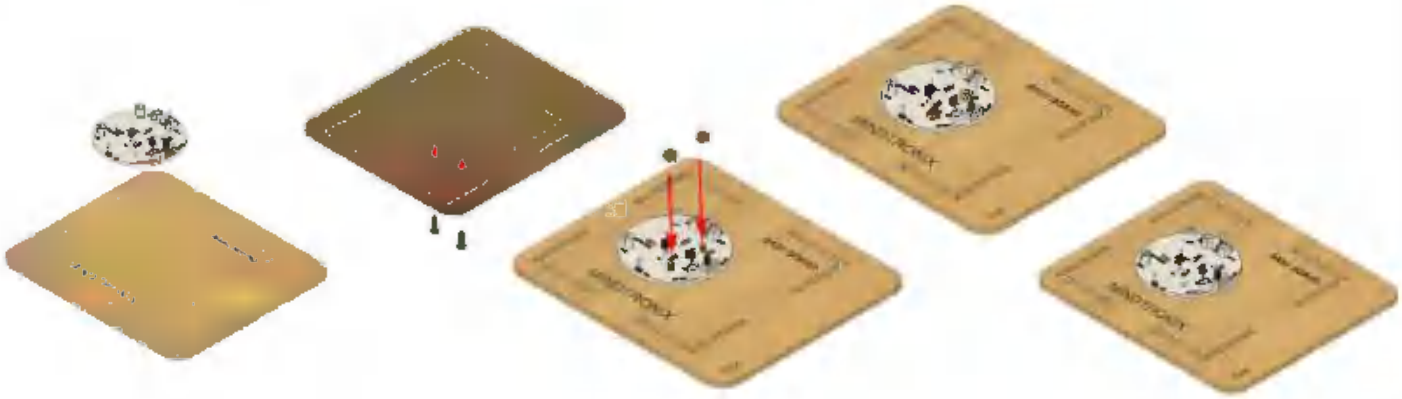
22. Now rotate the knob of the potentiometer to make its sensitivity. Observe the Buzzer while in locked and unlocked mode by changing the tiny switches in dip array switch to all Left side and Right side

INTRUDER ALERT SYSTEM

BETA



1. Take house baseboard and keep it text readable orientation



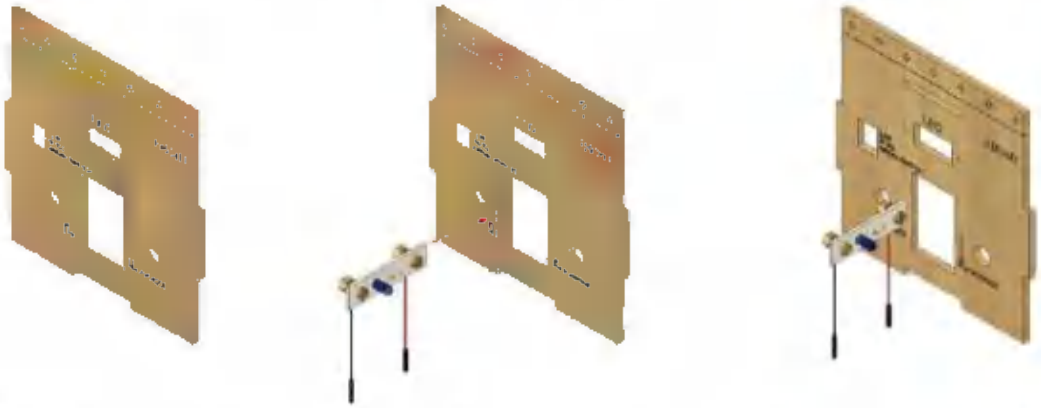
2. Now take main board and insert screws and nuts and fix it

3. Take IR LED and attach the Screws and Nuts as shown in the above image

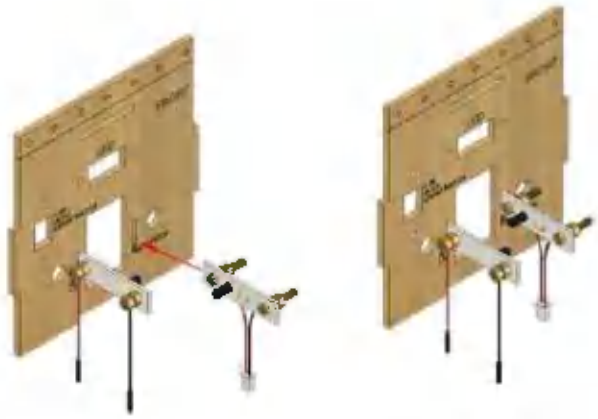
4. Attach Connecting wire (FL-F) (Brown wire to IR LED +, Black wire to IR LED -)

5. Take IR Photodiode Sensor and attach the Screws and Nuts as shown in the above image

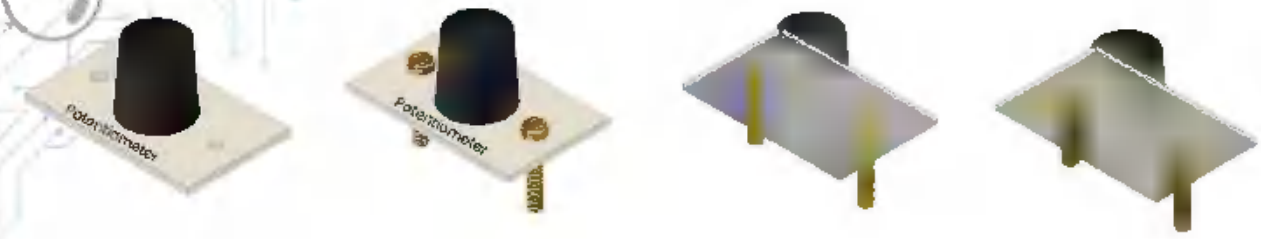
6. Attach forklugs to Attach Extension cable's fork lugs
(Brown wire to IR Photodiode +, Black wire to IR Photodiode -)



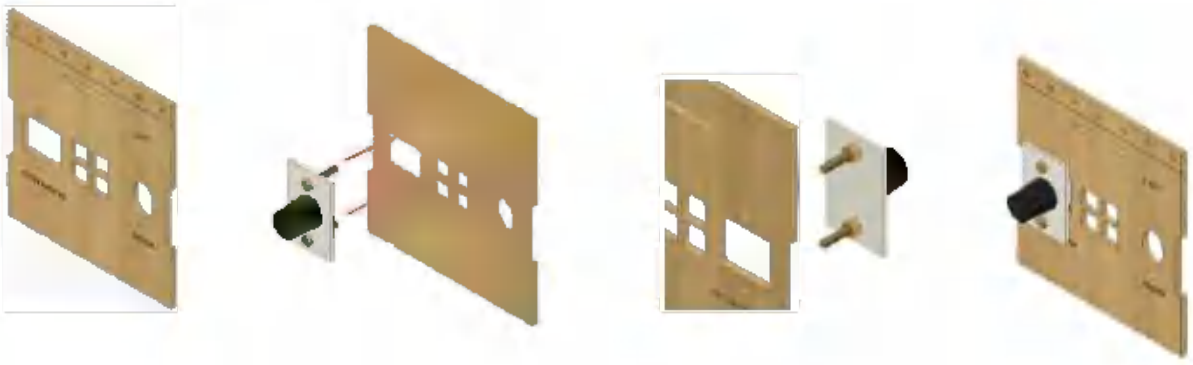
7. Fix IR LED to the front Block in the Guided slots as shown in the figure



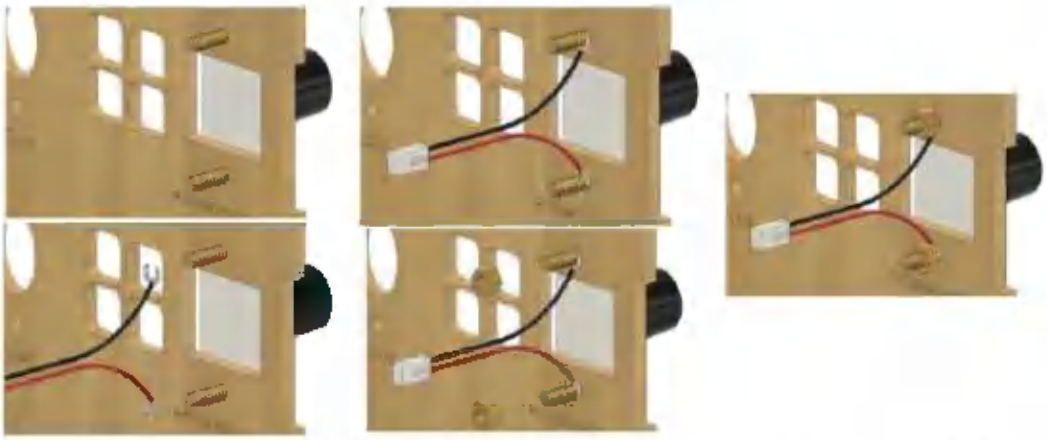
8. Fix IR Photodiode to the frant Block in the Guided slats as shown in the figure



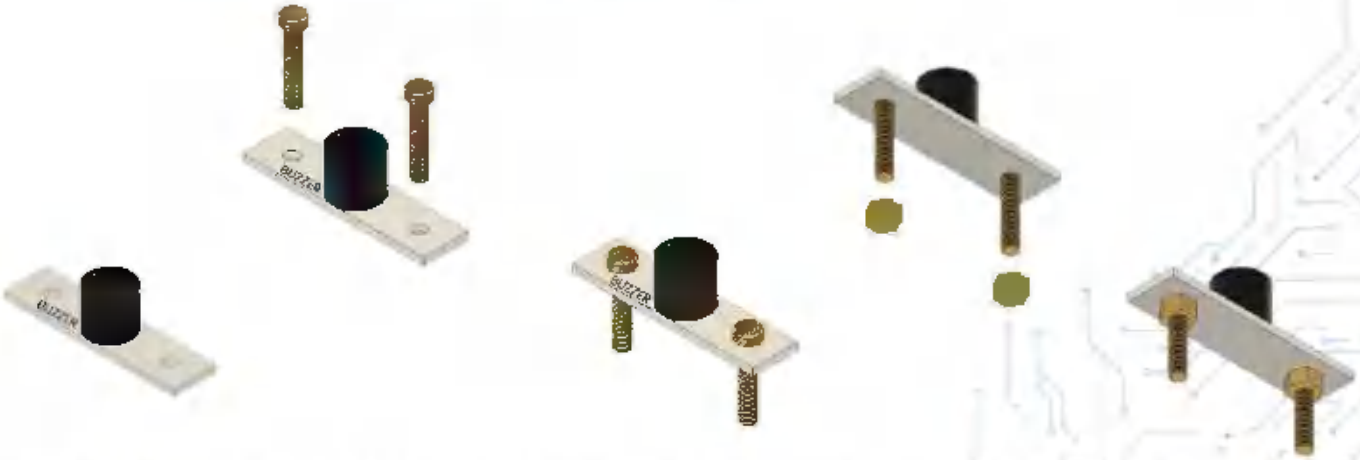
9. Now take Patentiometer and attach the Screws and Nuts to it.



10. Fix Potentiometer to Left block of the House

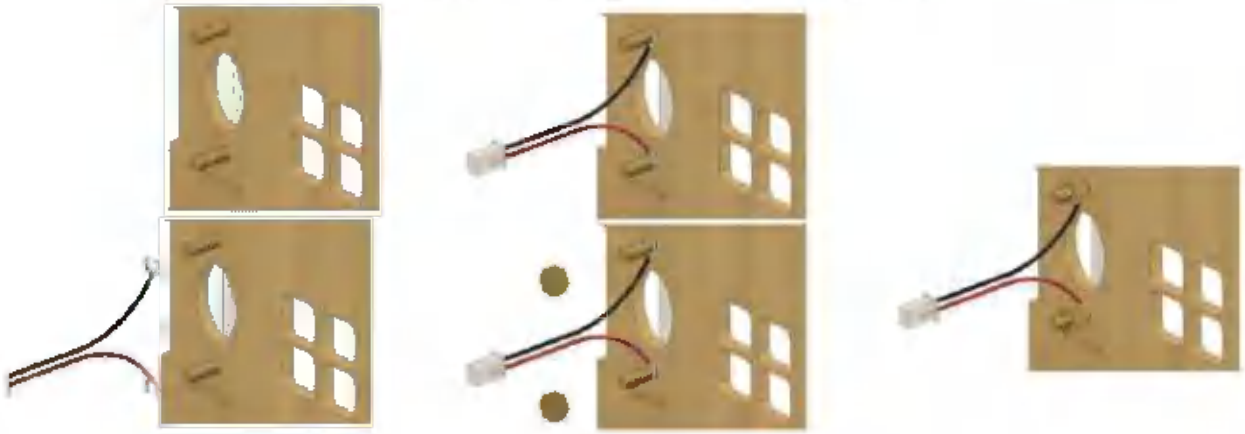


11. Attoch Extension cable's fork lugs, Now fix nuts to screws tightly

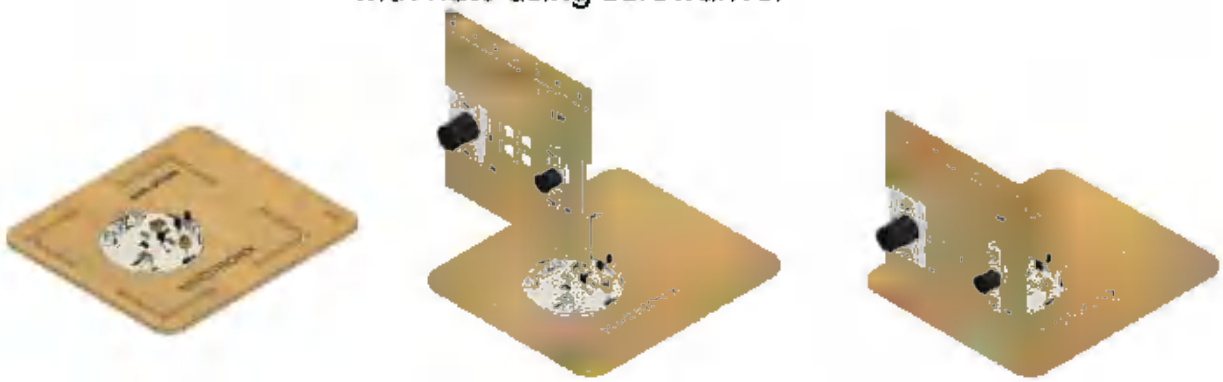


12. Take Buzzer and attach the Screws and Nuts as shown in the above image

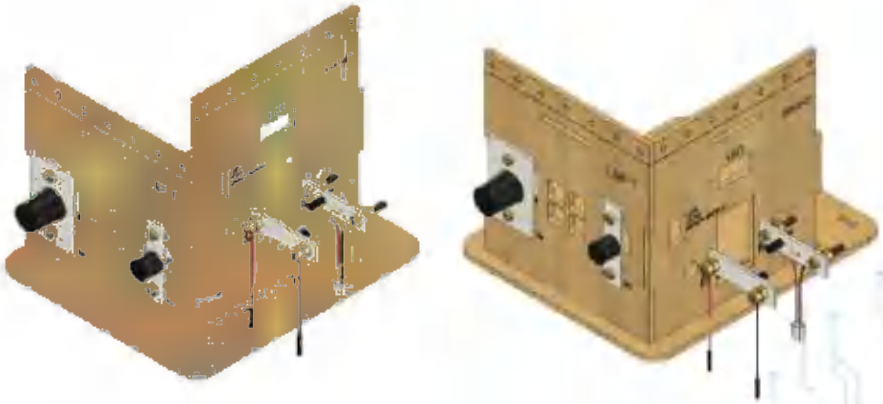
13. Connect Buzzer to Right block of the House



14. Connect the 2 pin fork lug connectors to the Buzzer so that brown wire is connected to the "+" side of buzzer and black to the "−" side of buzzer and fix with nuts using Screwdriver



15. Now, Fix Left block to the base board



16. Now, Fix the front block to the base baard af the house

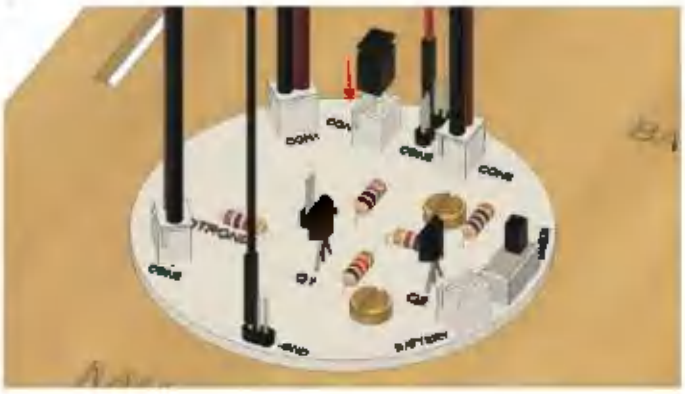
17. Insert the Potentiometer's extension cable in to the CON2 of main board

18. Insert the Buzzer's extension cable In to the CON6 of main board

19. Insert the IR Photodiode Sensor's extension cable in to the CON1 of main board

20. Take +ve Connecting wire(FL-F) of IR LED and connect to the +VCC in the main board


21. Take +ve Connecting wire(FL-F) of IR LED and connect to the -GND in the main board

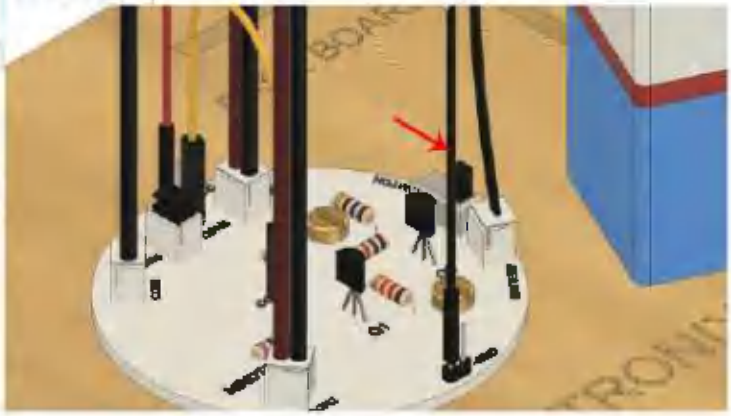



22. Insert Jumper pin into CON4 of the main board.

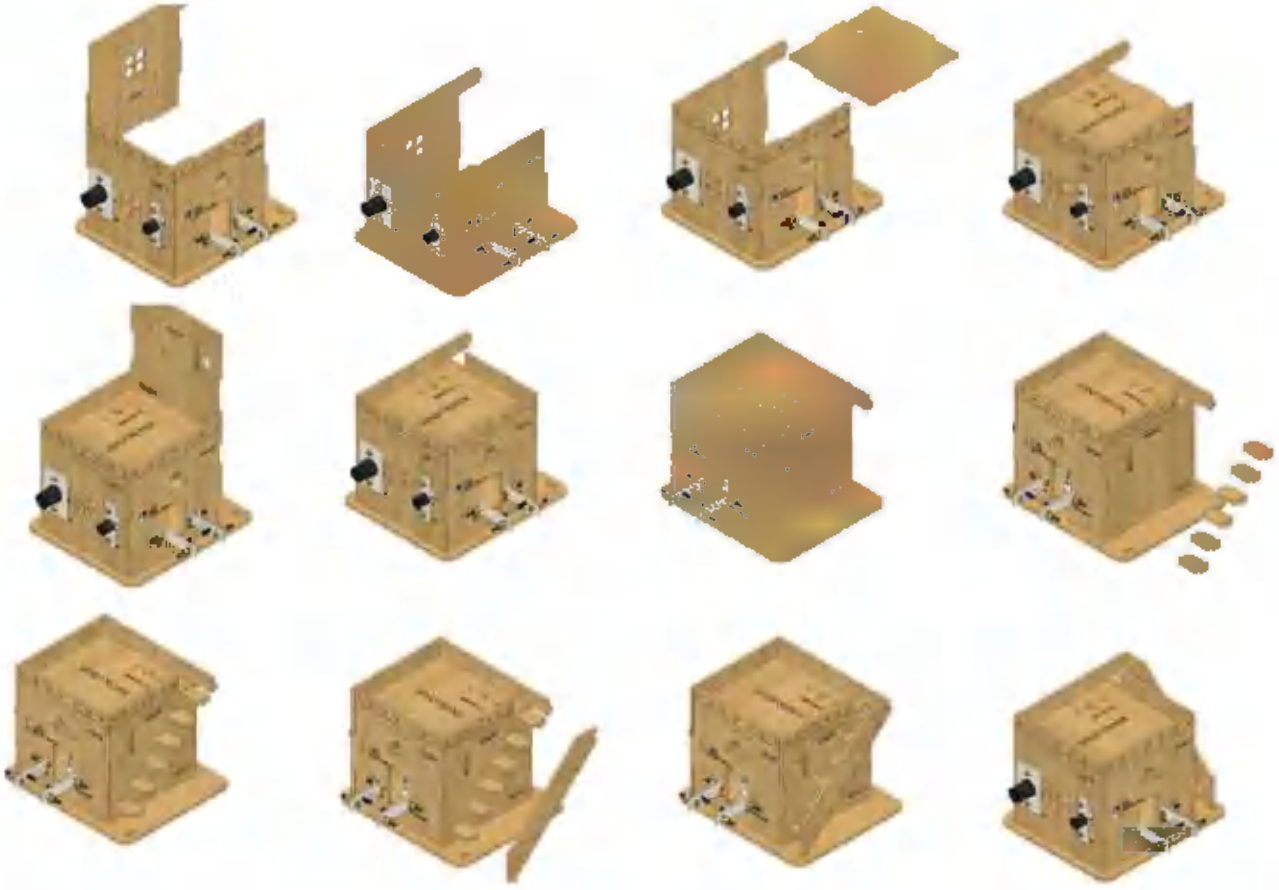

23. Taken F-F Connecting wire and insert one end into 1 st pin of CON3 and Insert Other end into 2nd pin of CON5 as shown In figure



24. Connect the battery in the battery slot



25. Now connections are ready, Powering the main board by slide the Switch to downwards.

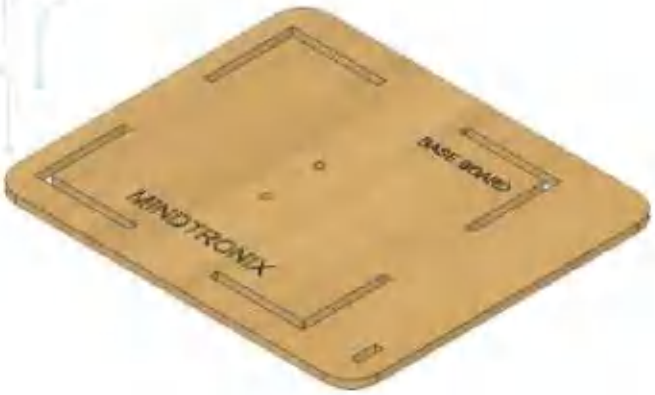


26. Build the remaining house with house blocks

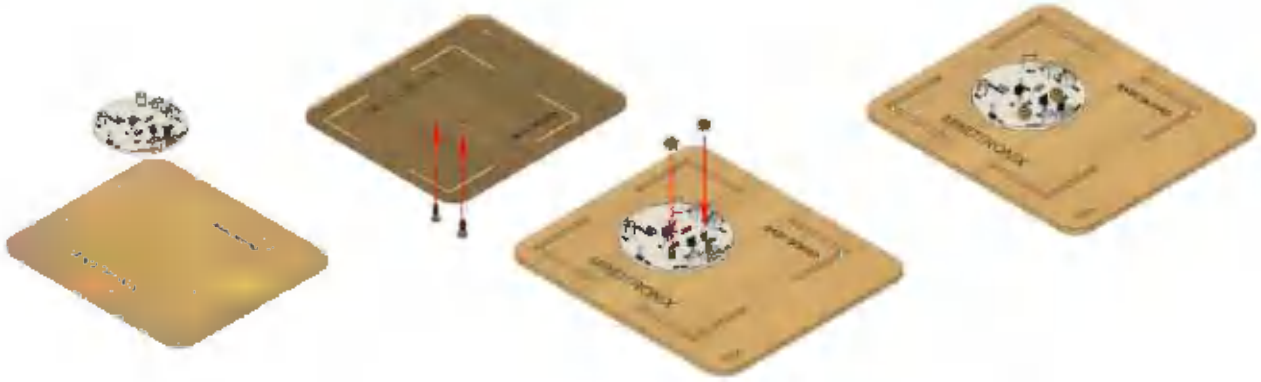
27. Now rotate the knob of the potentiometer to make its sensitivity, Observe the Buzzer, when we move the hands in Between Tx & Rx

PARKING SLOT ALERT SYSTEM

BETA

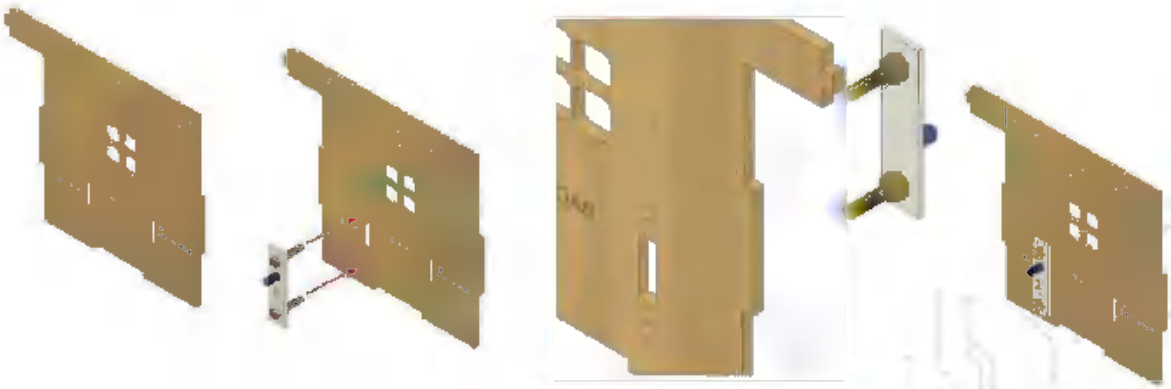


1. Take house baseboard and keep it text readable orientation



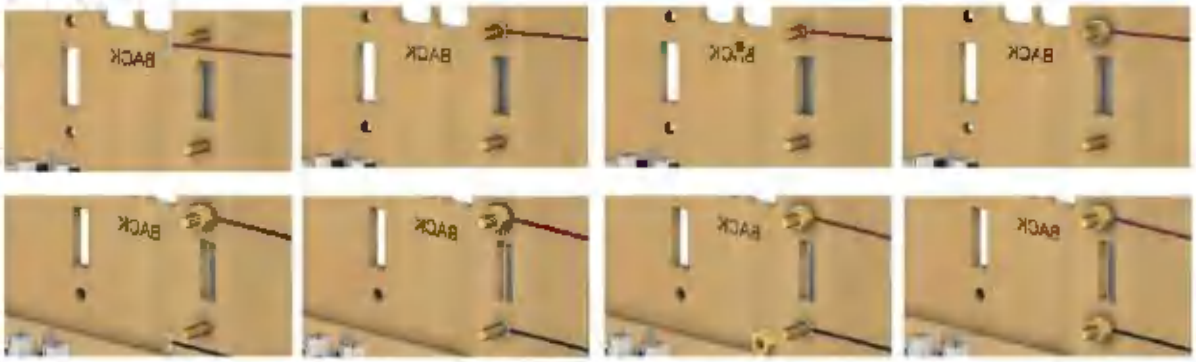
2. Now toke main board and insert screws and nuts and fix it

3. Take IR LED and attoch the Screws and Nuts as shown in the above image



4. Fix iR LED to the back block of the house

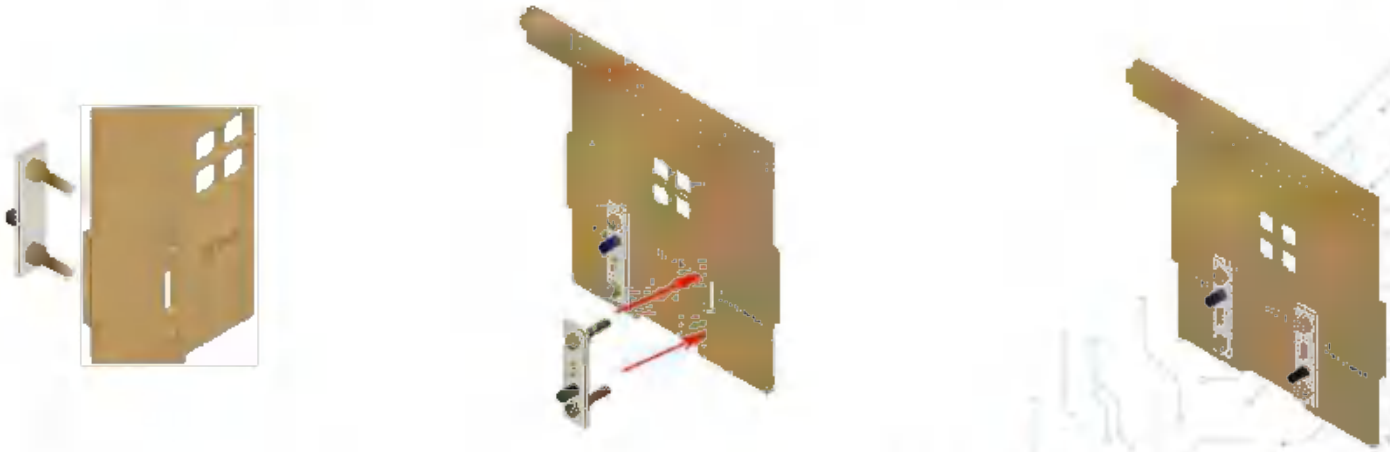
PARKING SLOT ALERT SYSTEM BETA



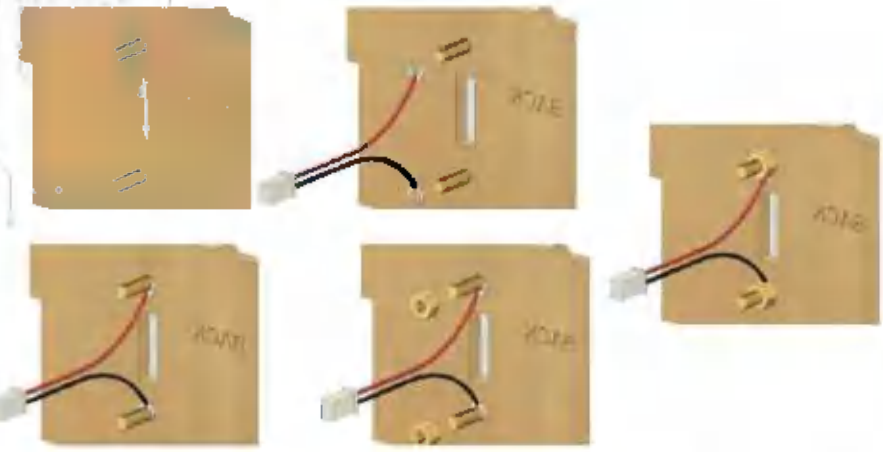
5. Take Brown Connecting wire(FL-F) and attach one end i.e., fork lug to positive end of IR LED, similarly, Take Black Connecting wire (FL-F) and attach one end i.e., fork lug to Negative end of IR LED

6. in This way

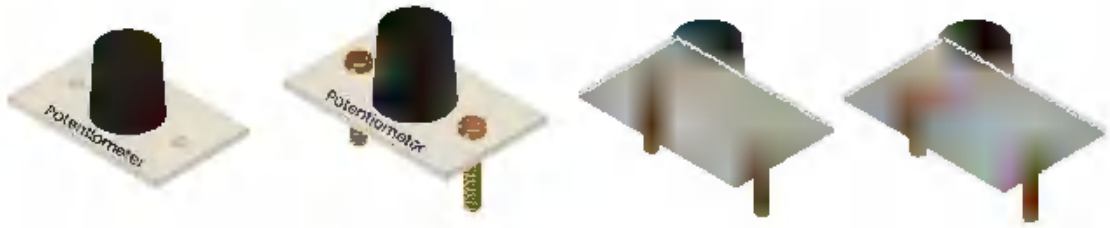
7. Take IR Photodiode and attach the Screws and Nuts as shown in the above image



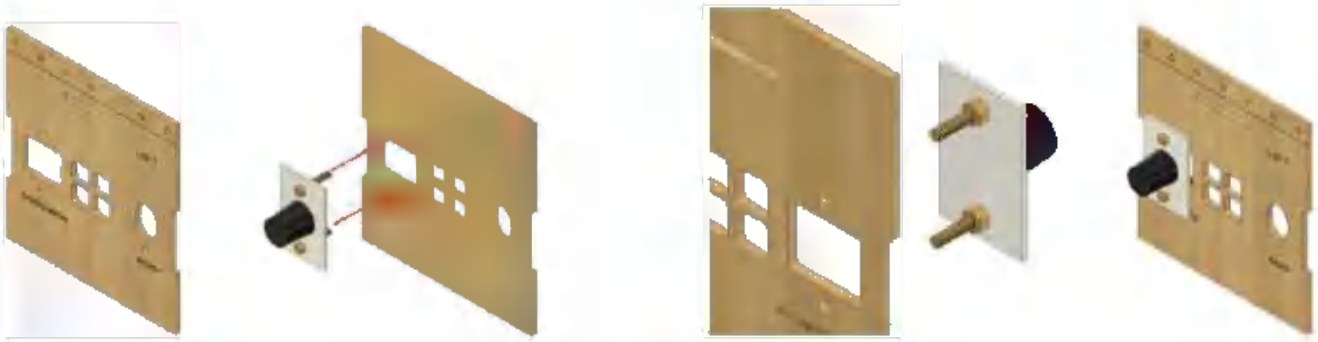
8. Fix IR Photodiode to the back black of the house



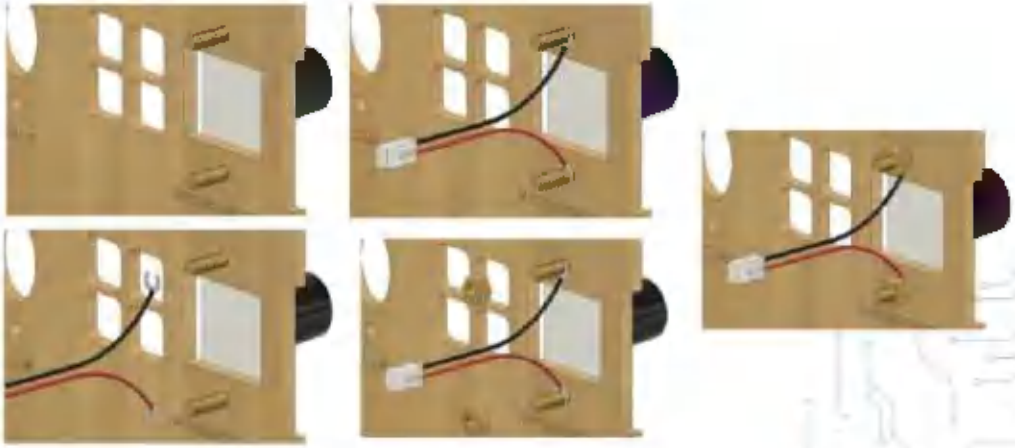
9. Attach forklugs to the IR Photodiode, So that the Brown wire to +ve terminal of IR Photodiode and black wire to -ve terminal of IR Photodlode



10. Now take Potentiometer and attach the Screws and Nuts ta it.



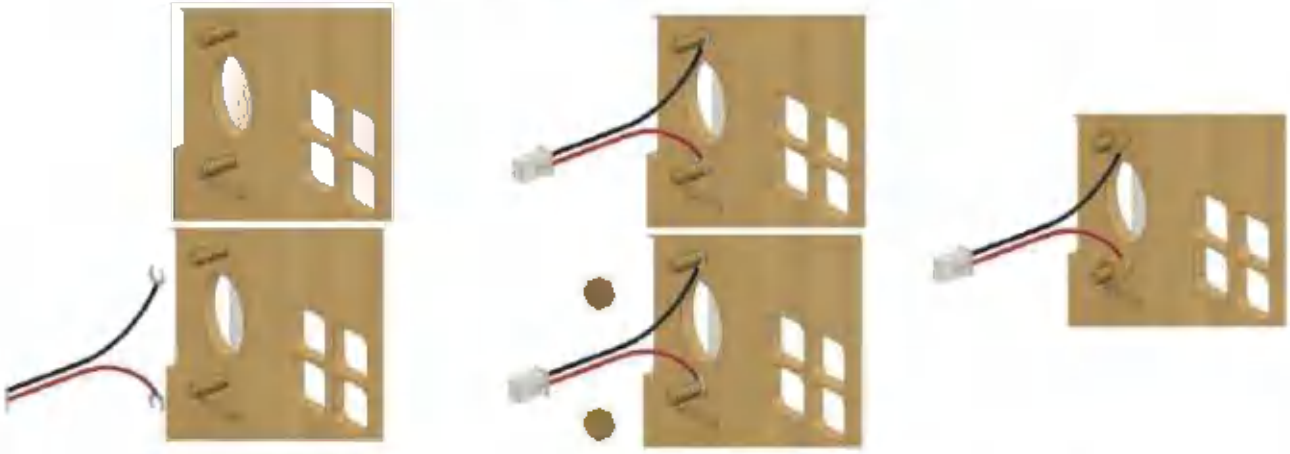
II. Connect Potentiometer to Left block of the House



12. Attach Extension cable's fark lugs ,Now fix nuts to screws tightly

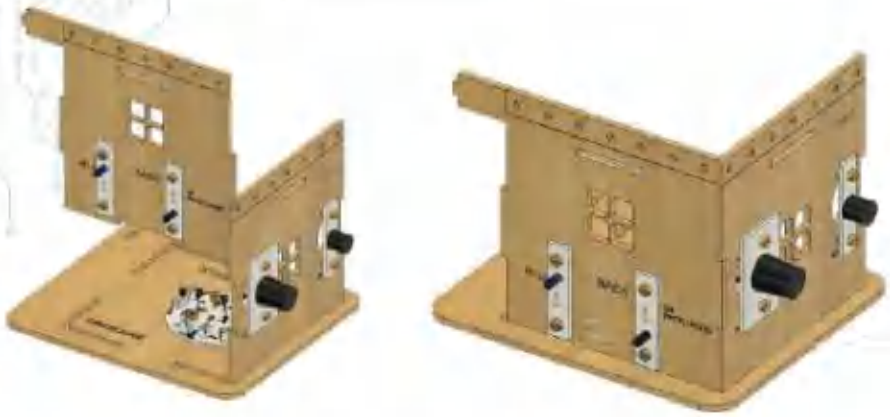
13. Take Buzzer and attach the Screws and Nuts as shown in the above image

14. Fix Buzzer to Left block of the House



15. Attach Extension cable's fork lugs(Brown wire to Buzzer +, Black wire to Buzzer -),Now fix nuts to screws tightly

16.Connect right block to the base board of the house

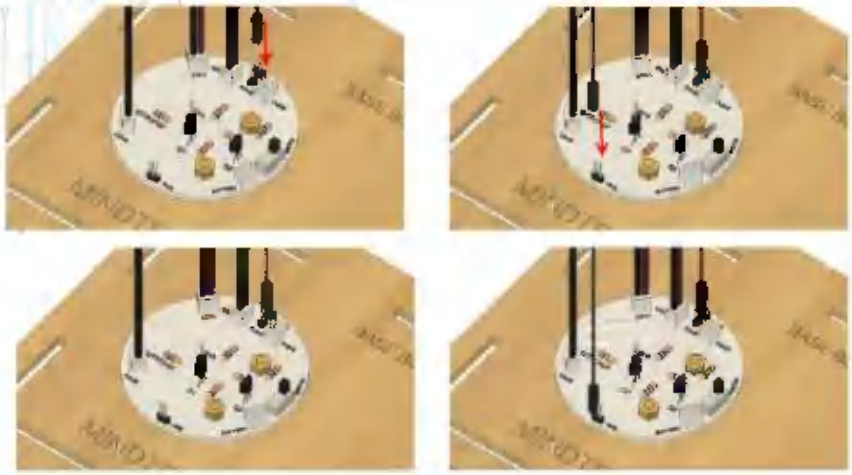


17. Connect back block to the base board of the house

18. Connect the Potentiometer's extension cable in to the CON2 of main board

19. Connect the Buzzer's extension cable in to the CON4 of main board

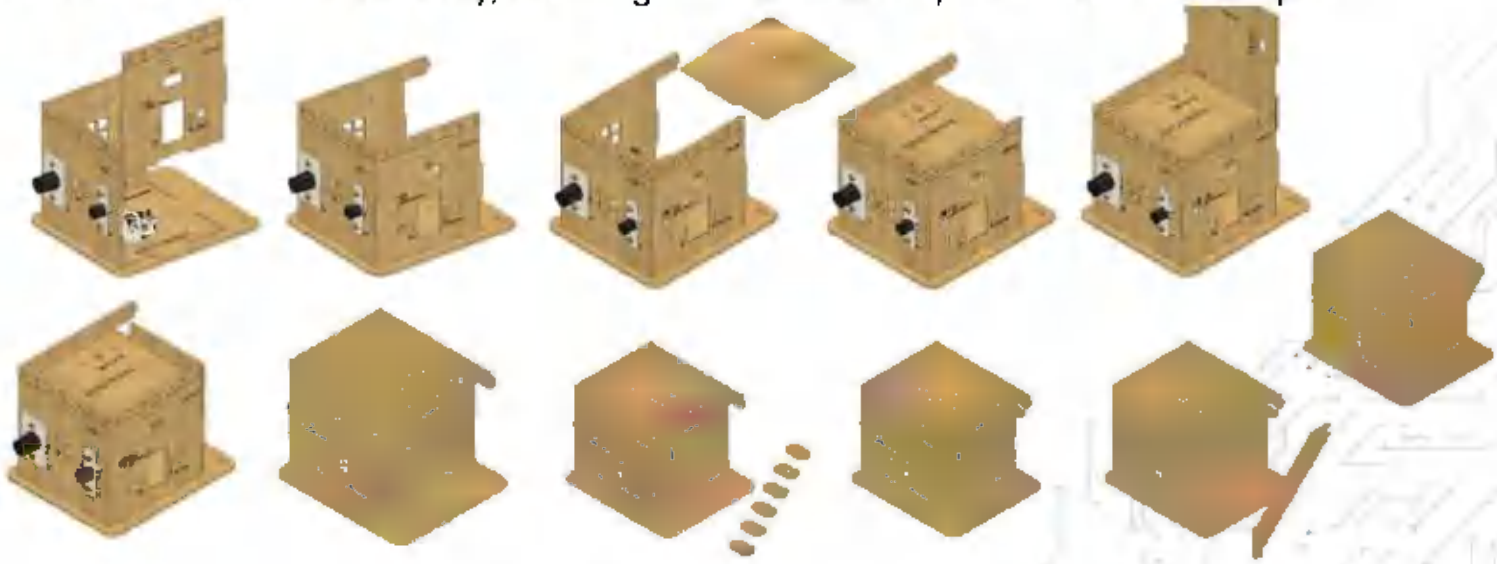
20. Connect the IR Photodiode Sensor's extension cable in to the CON1 of main board



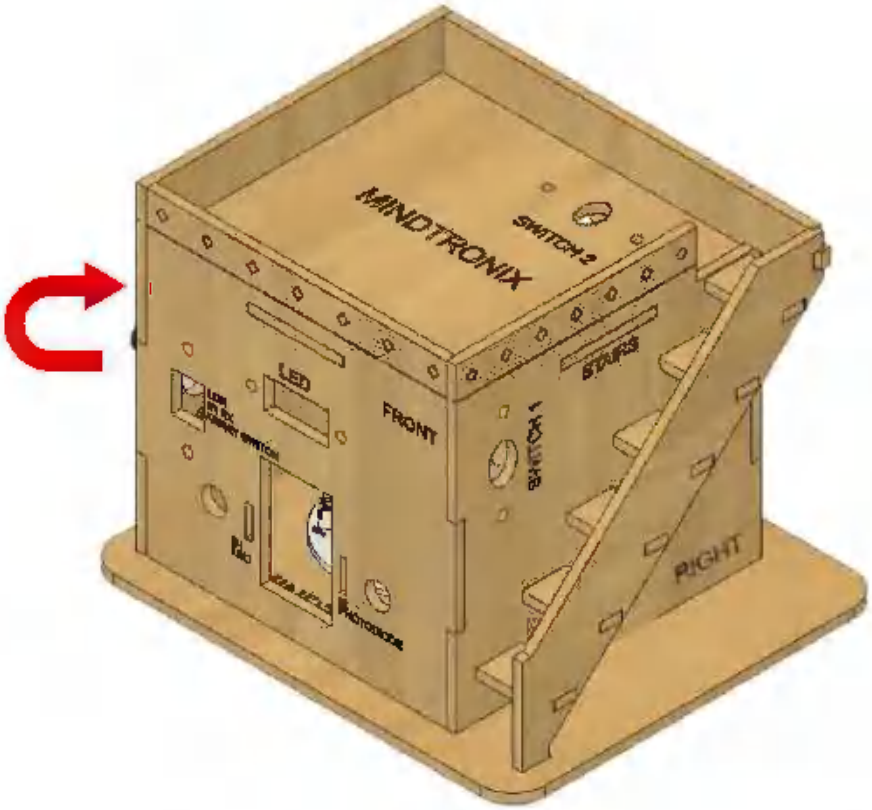
21. Connect brown wire of IR LED to +VCC
And Black Wire to –GND in the main board

22. Connect battery in battery slot

23. Now connections are ready, Powering the mainboard by slide the Switch to upwards

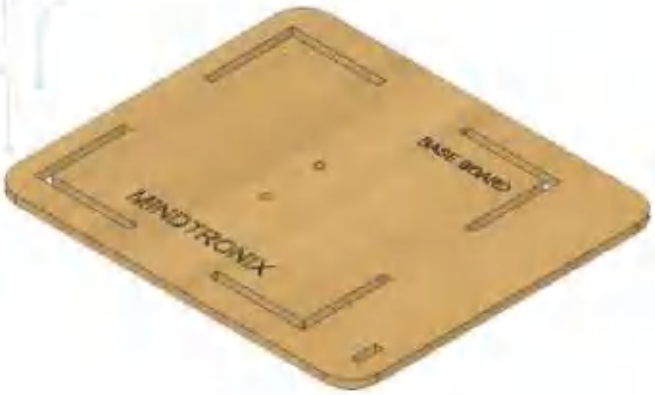


24. Build the remaining house with house blocks

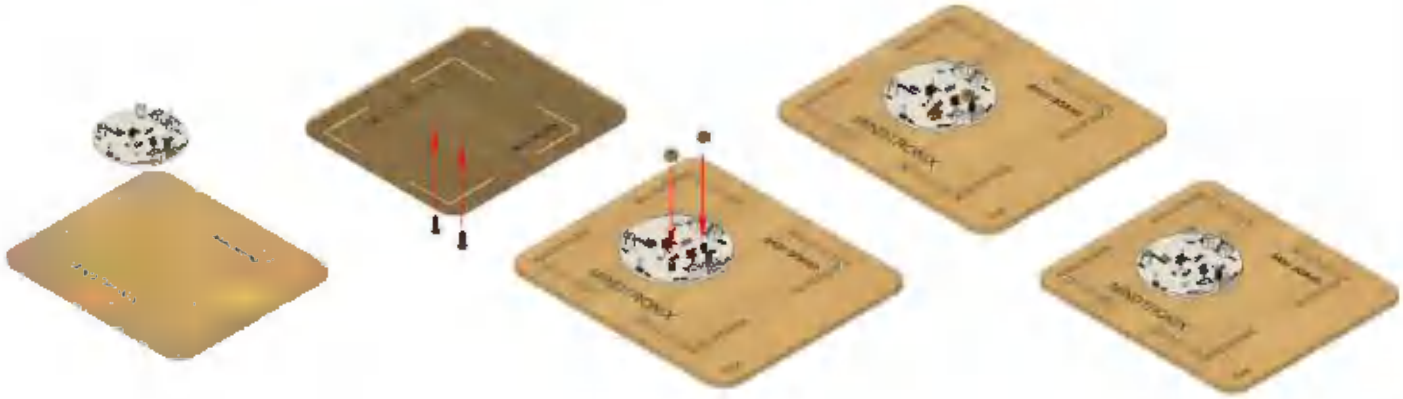


25. Now rotate the knob of the potentiometer to make its sensitivity. Observe the Buzzer while when we move the hands from nearer to farther.

EMERGENCY LIGHT WITH POWER FAILURE ALARM BETA



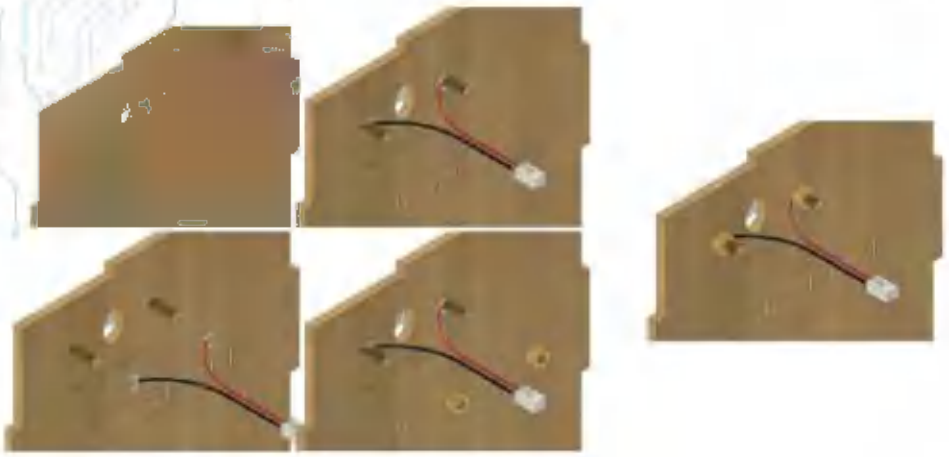
1. Take house baseboard and keep it text readable arientatian



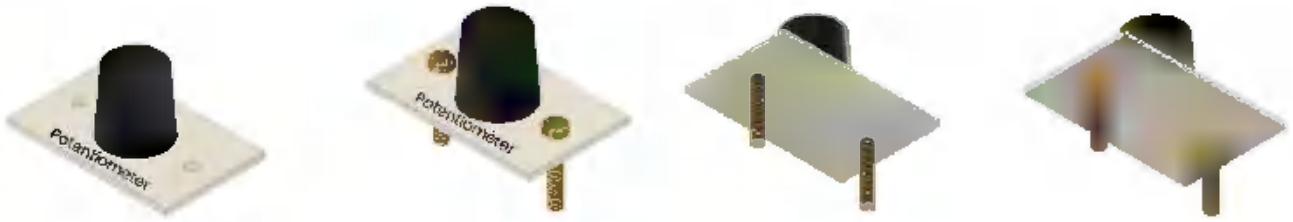
2. Now take main board and insert screws and nuts and fix it

3. Take LDR Sensor and attach the Screws and Nuts as shown in the above image

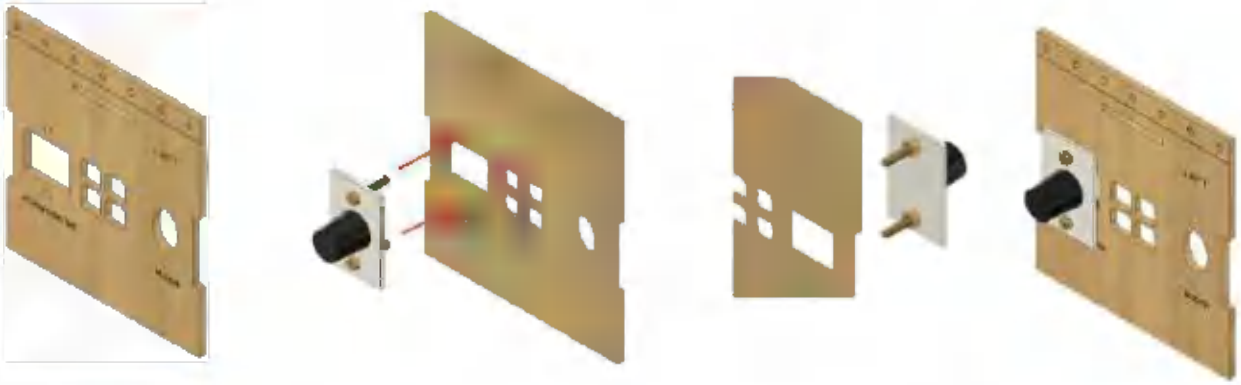
4. Fix LDR Sensor to Top Roof of the House



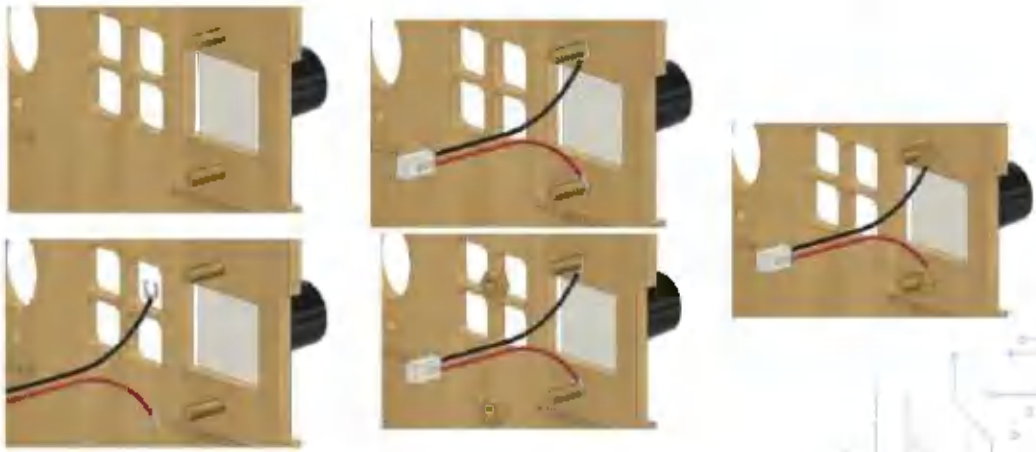
5. Attach Extension cable's fork lugs, Now fix nuts te screws tightly



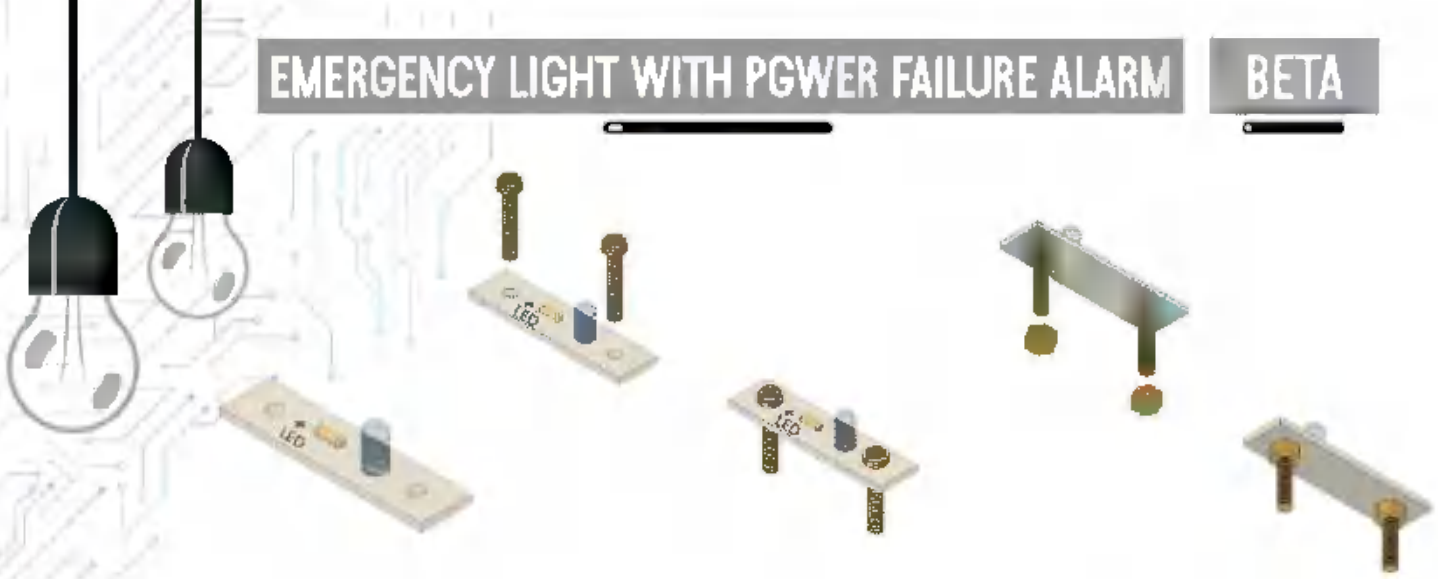
6. Now take Potentiometer and attach the Screws and Nuts to it.



7. Fix Potentiometer to Left block of the House

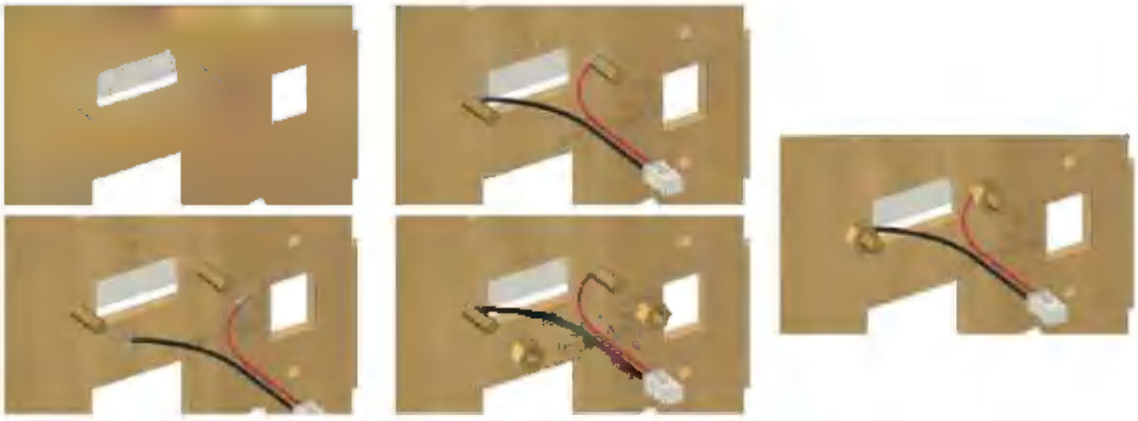


8. Attach Extension cable's fork lugs, Now fix nuts to screws tightly

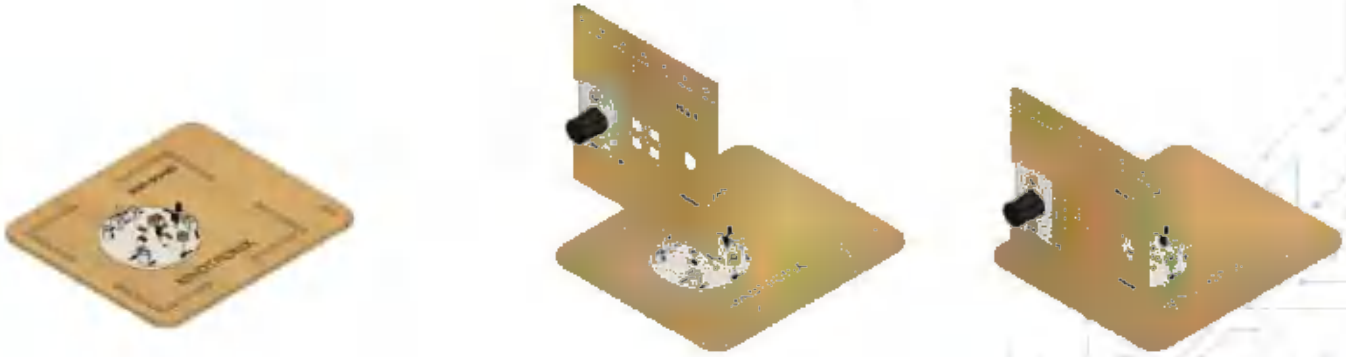


9. Take LED and attach the Screws and Nuts ta it as shawn in the above image

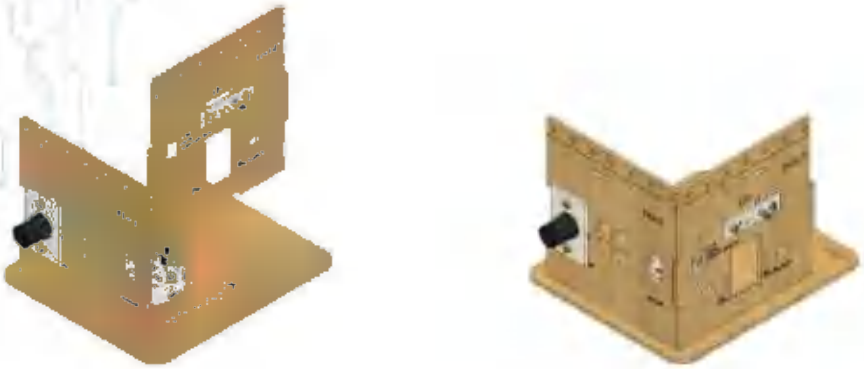
10. Connect LED to Front block of the House



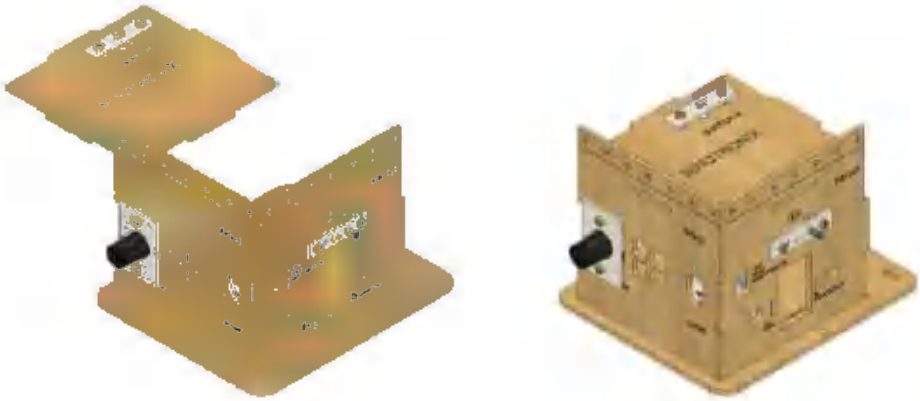
11. Attach Extension cable's fork lugs(Brown wire to LED +, Black wire to LED −), Now fix nuts to screws tightly



12. Fix right block to the base board

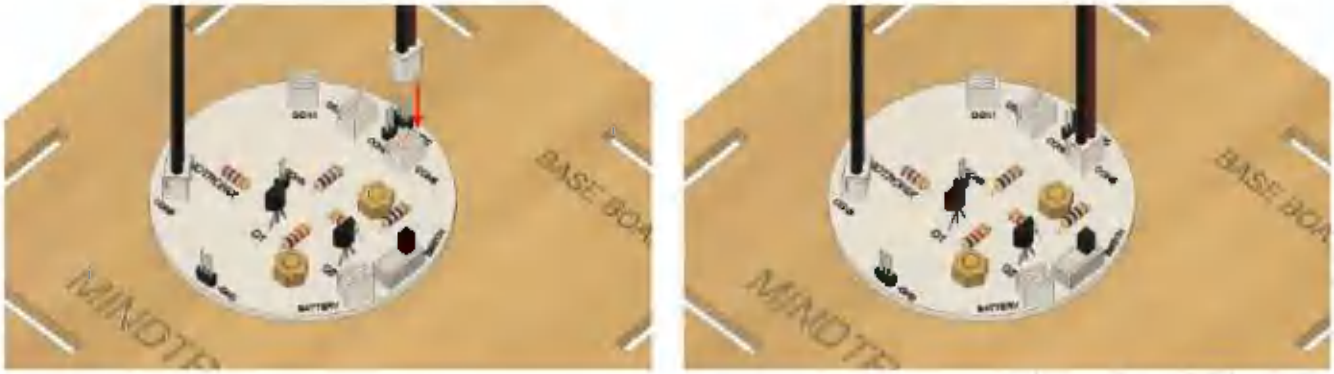


13. Fix front block to the base board



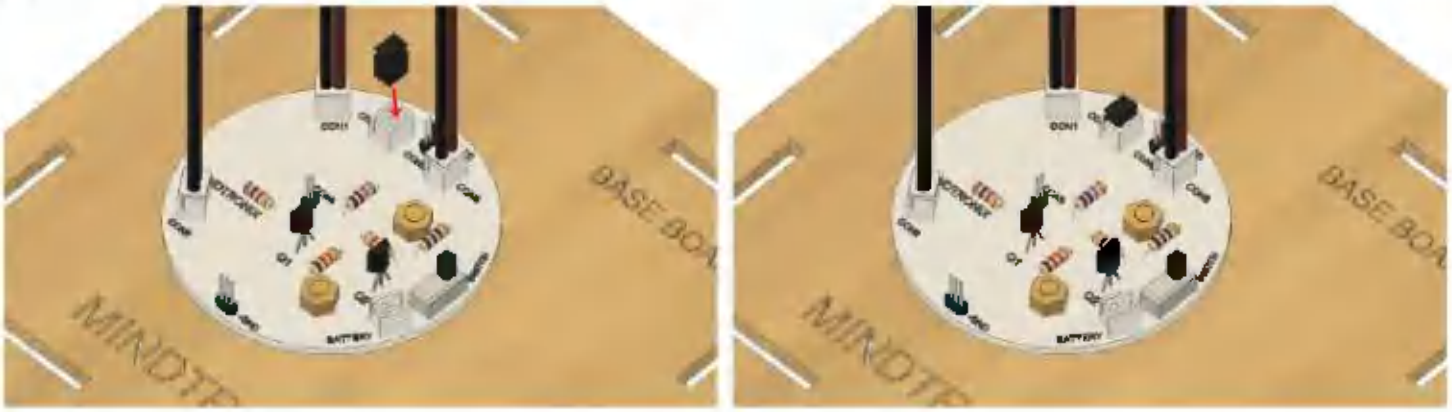
14. Fix Top block to the base board

15. Connect the Potentiometer's extension cable In to the CON2 of main board

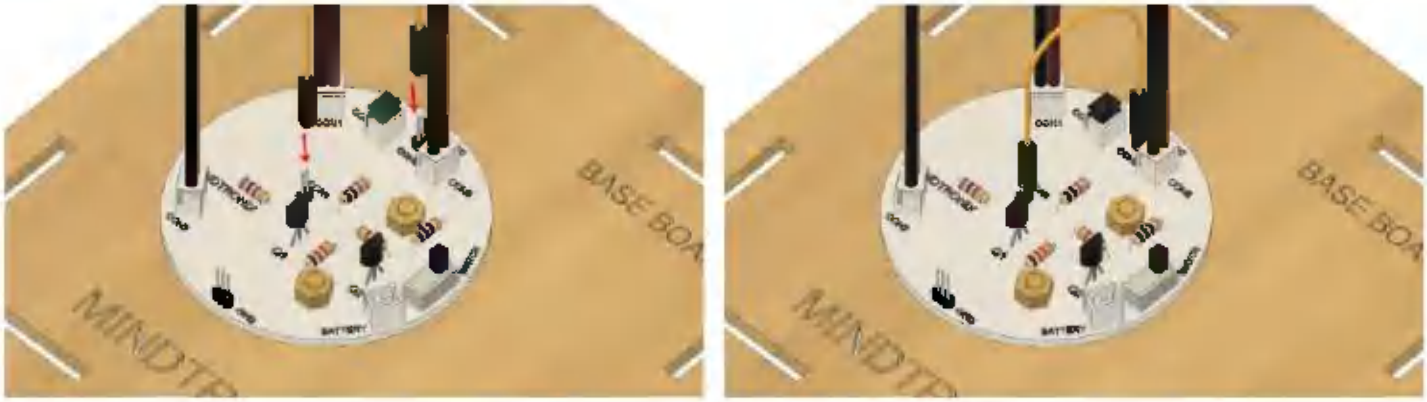


16. Connect the LED's extent ion cable in to the CON6 of main board

17. Connect the LDR Sensor's extensian cable in to the CON1 of main board



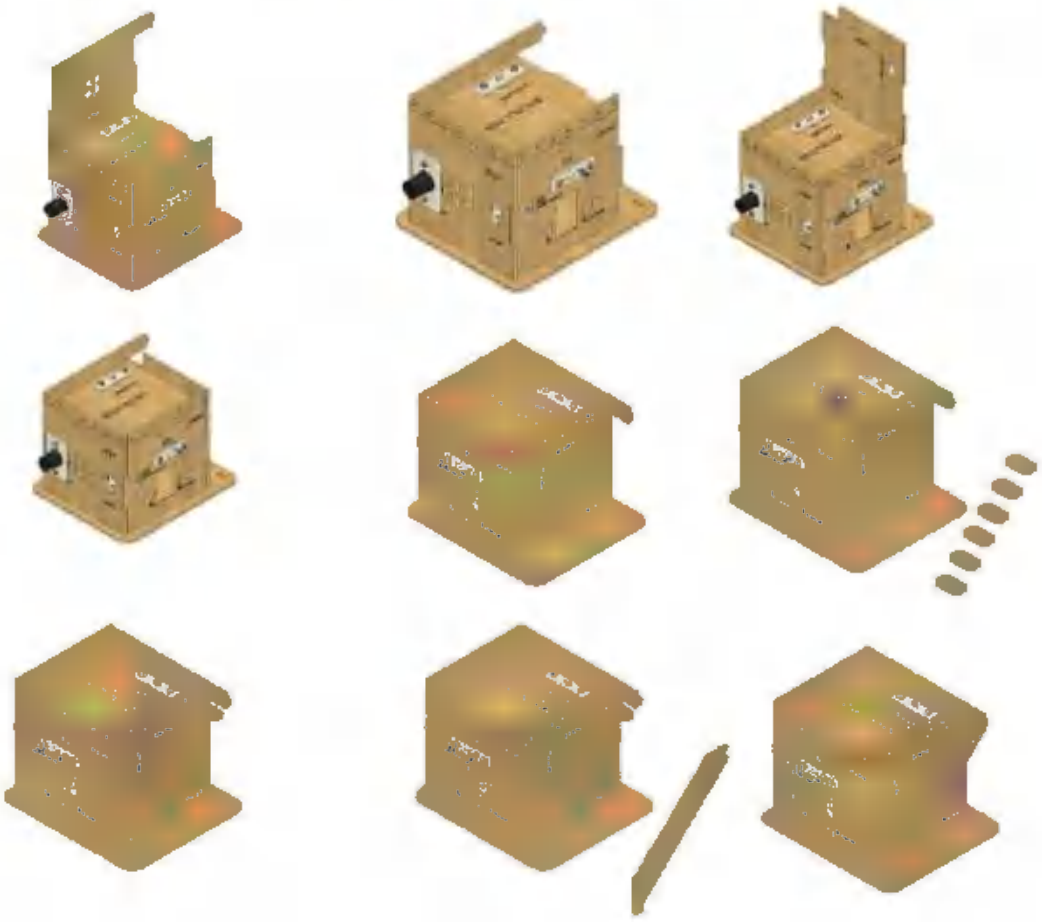
18. Connect the Jumper in to the CON4 of main board



19. Take a Connecting wire (F-F) and insert one Female end in to the First pin of CON3, Now insert another female end in to the second pin of CON5

20. Connect the battery in the battery slot

2i. Now connections ore ready, Powering the moinboord by slide the Switch to upwords.

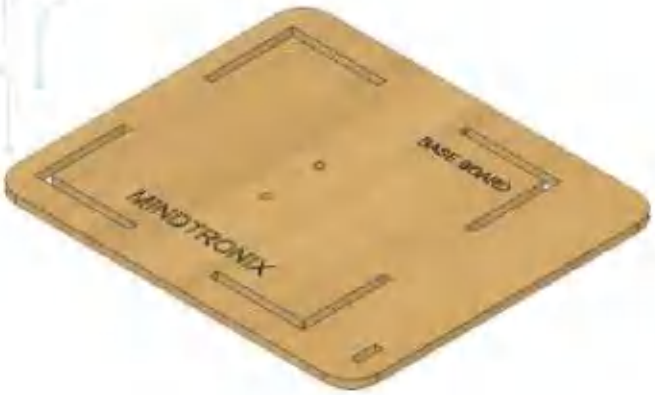


22. Build the remaining house with house biocks

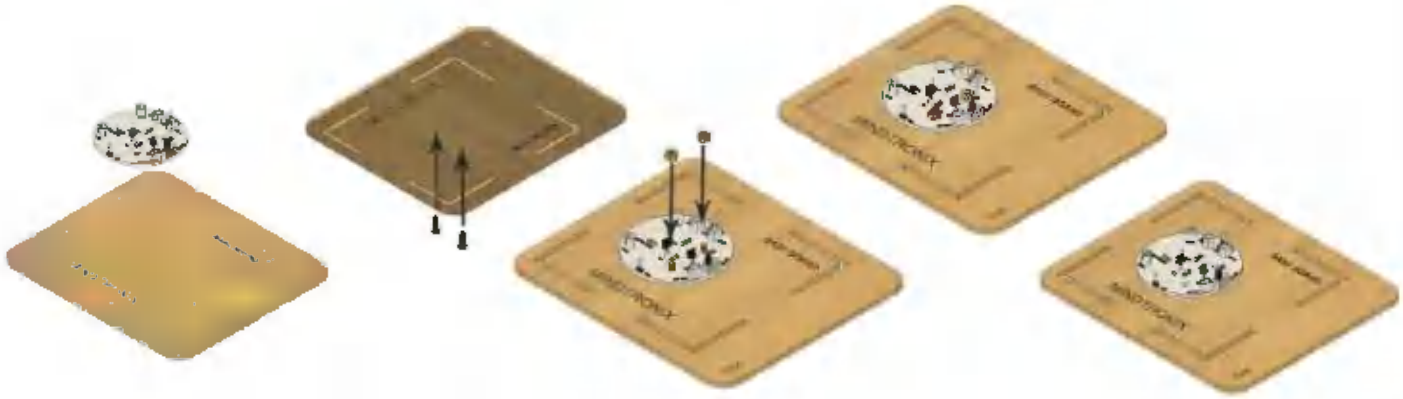
23. Now rotate the knob of the potentiameter to make its sensitivity .
Observe the LED while in a room iight and in a dark room

BICYCLE TURNING LIGHTS

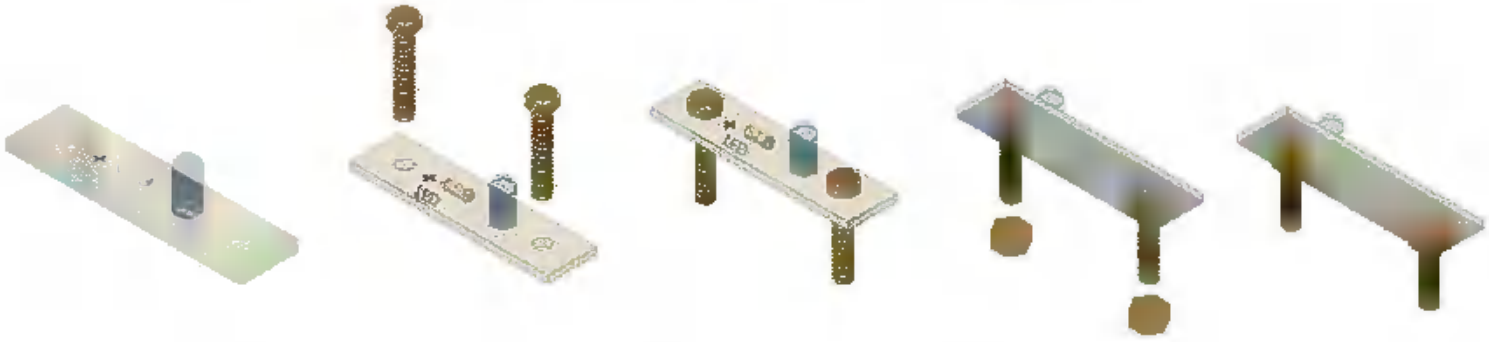
BETA



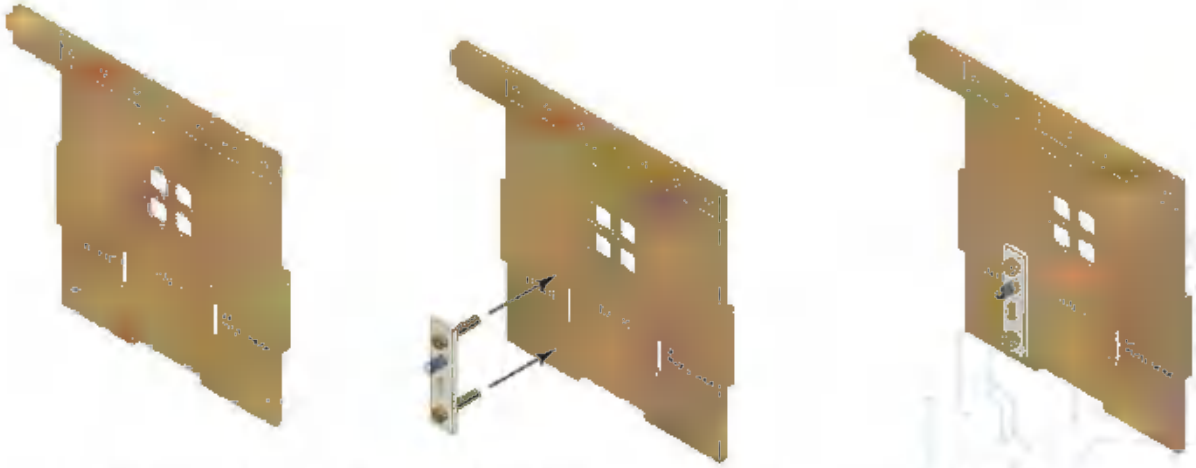
1. Take house baseboard and keep it as text readable orientation



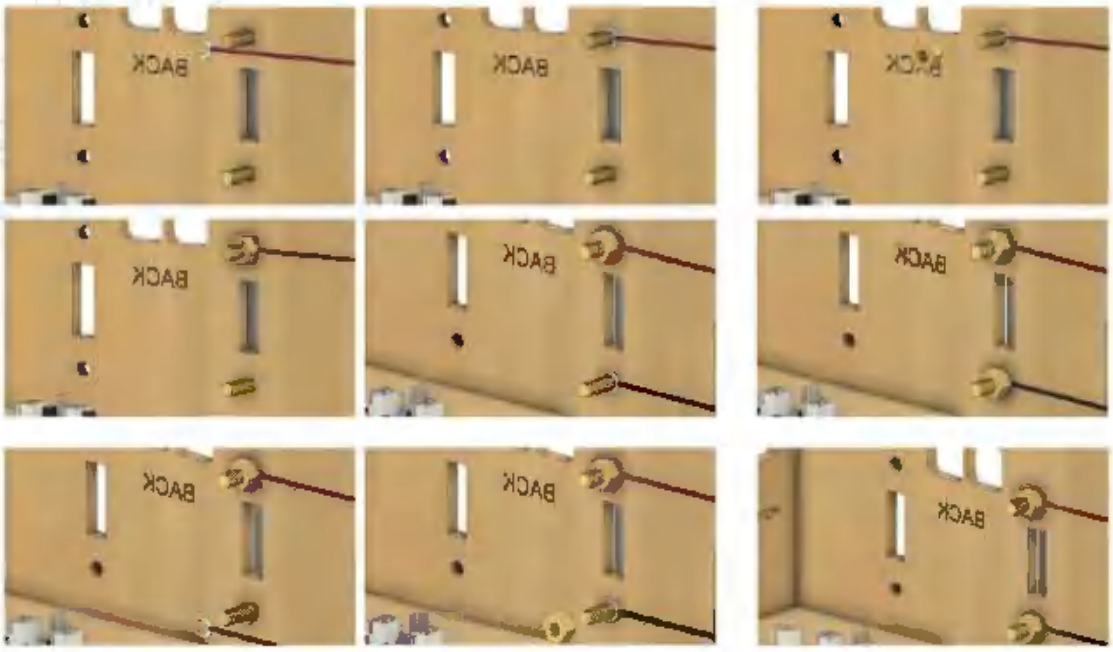
2. Now take main board and insert screws and nuts and fix it



3. Take LED and attach the Screws and Nuts to it as shown in the above image

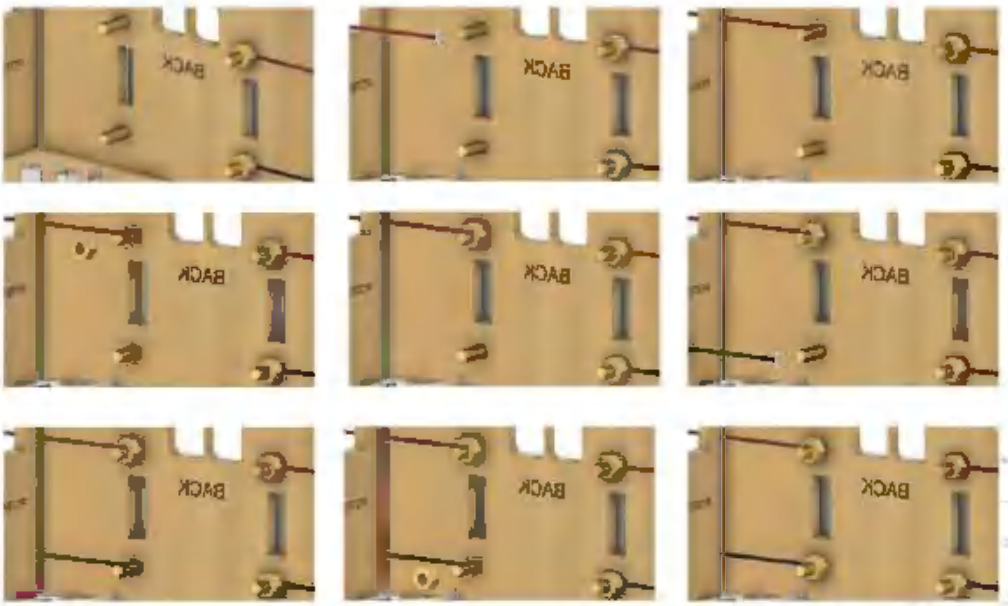


4. Take one LED and attach the Screws and Nuts to back block of house



5. Attach the Connecting wire FL -F & forkiug to the - ef LED
Attoch the Connecting wire FL - FL & Connect Forkiug to the + of LED

6. Take another LED and attach the Screws and Nuts to back block of house

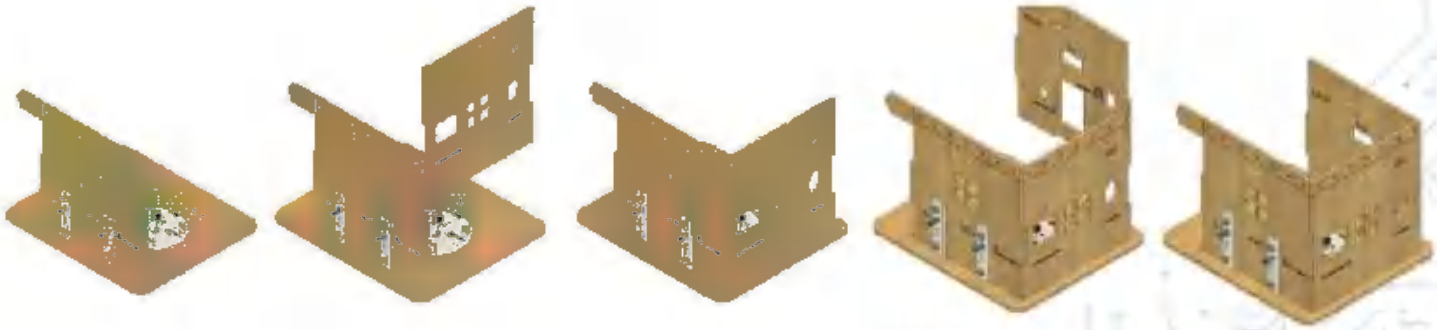


7. Attach the Connecting wire FL - F & Connect Forkiug to the - of LED
Attach the connecting wire FL -FL & Connect Forkiug to the + of LED

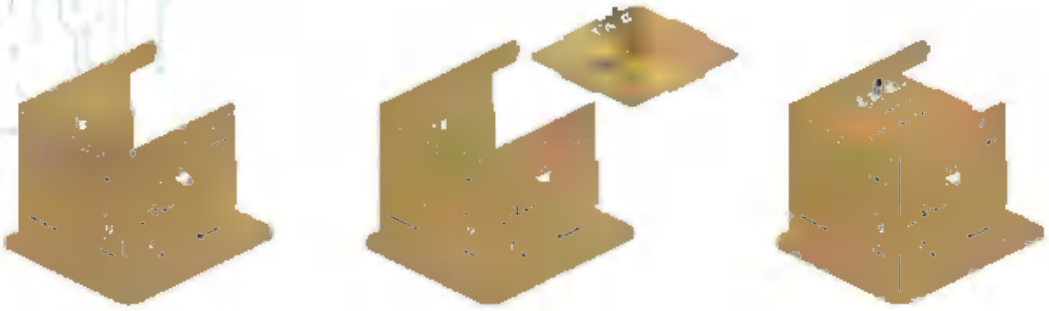
8. Take a switch and attach the Screws and Nuts

9.Fix the switch to the tap block

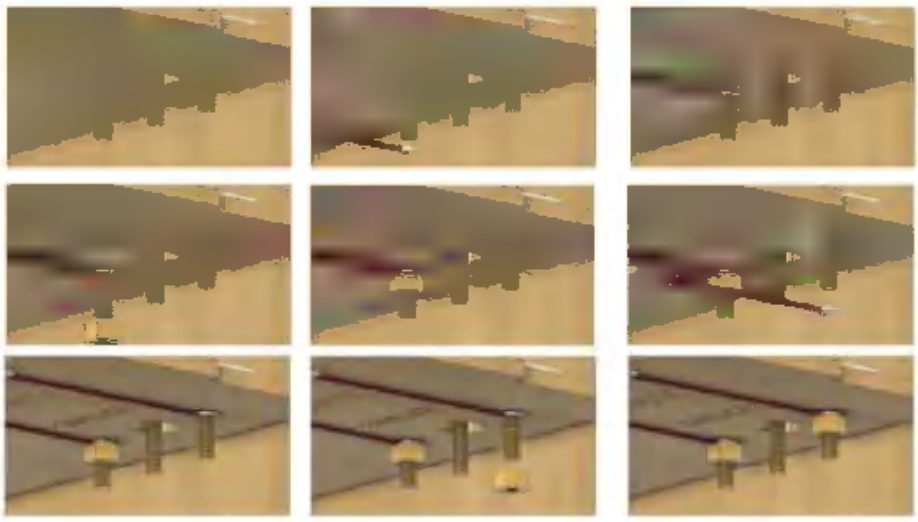
10. Fix the Back block to the base board af the house



11. Fix Right and front block to the base board of the house

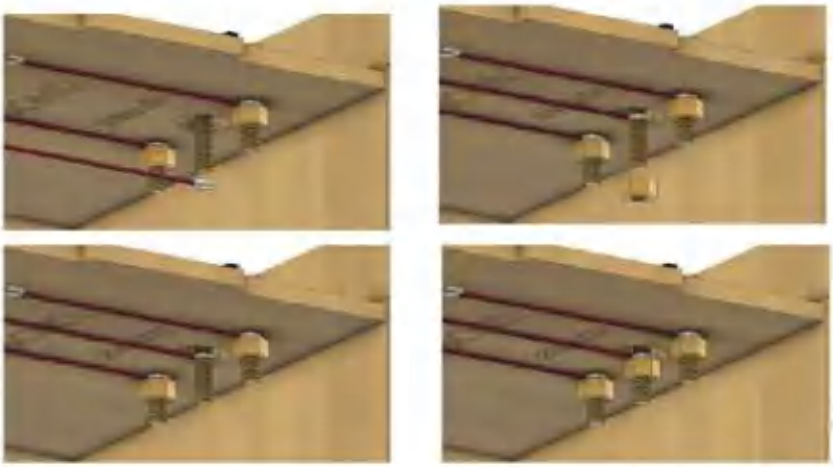


12. Now fix the top roof of the house

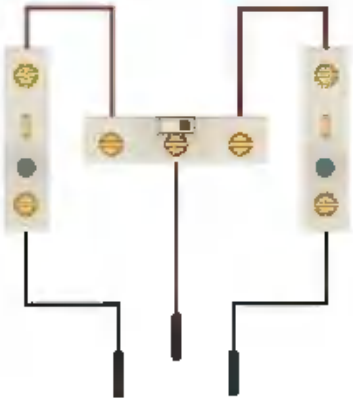


13. Take the two Remaing Forklug Connecting wire of Step 5 and step 7 from LED +ve and connect to the two end terminals of the switch as shown in figure

14. in this way



15. take a F-FL Forklug and Connect the center terminal of the switch



16. In this way

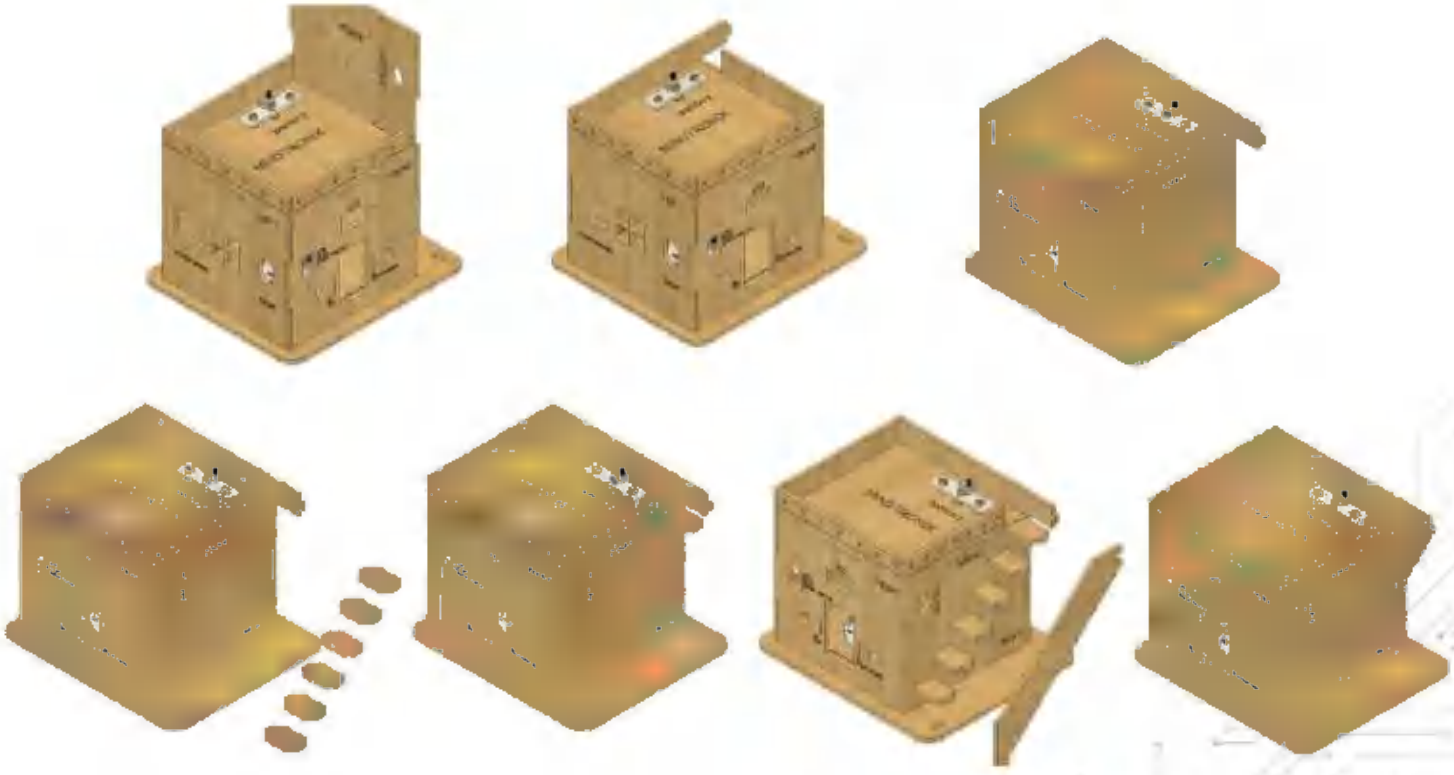
17. Now connect the center wire form Switch to +VCC on the main board

18. Connect the wire from one LED in the –GND on the main board

19. Connect the wire from another Led in the –GND on the main board

20. Connect the battery with battery snapper in Battery connector

21. Now connections are ready, Now slide the Switch in main board to down to make powering the mainboard



22. Build the remaining house with house blocks

23. Now slide the Switch of Top block and observe the LED's in back side