

CENTRIFUGAL GUN

IMAGINE A DEVICE CAPABLE OF LAUNCHING A BB AT AN OBJECT. THE BB HAS THE SAME EFFECT AS A 22 BULLET WHEN IT HITS THE OBJECT. THE DEVICE USED TO LAUNCH THE BB WAS POWERED BY A 9V BATTERY. IT IS POSSIBLE AND CAN BE MADE IN ANY HOME WORKSHOP.

THIS DEVICE HAS A SIMPLE CONCEPT OR THEORY OF OPERATION : A NINE VOLT BATTERY IS CONNECTED TO A SWITCH, RHEOSTAT AND MOTOR. THE MOTOR IS CONNECTED TO A COUNTER WEIGHT OR CYLINDER WHICH IS PERFECTLY BALANCED. THIS COUNTER WEIGHT IS PLACED INSIDE A TEFLON COATED CANISTER WHICH HAS A CLOSED WINDOW ON IT. THIS WINDOW IS MANUALLY OPENED VIA A SWITCH, IT IS HELD CLOSED BY A SPRING. ONCE THE MOTOR AND CYLINDER REACH A CERTAIN RPM IN THE CANISTER, THE BB ALSO REACHES THAT RPM WITHIN THE CANISTER. THE WINDOW IS OPENED AND THE BB IS LAUNCHED OUT AT TREMENDOUS VELOCITIES. ALL FROM A NINE VOLT BATTERY.

ATTAIN PARTS FIRST:

- 1 DC Motor. (60,000-150,000rpm) 9-24vDC.
- 1 empty saue can or shoe polish can.
- 1 can of teflon repair spray.
- 1 steel or aluminum disc or cylinder (solid) prebalanced for high speeds. Must be same size as inside diameter of saue can or shoe polish can after the can has been inner coated with teflon.
- 1 box of 5000 bb's.
- 2-3 9v batteries and connectors.
- 1 switch and rheostat. (rheostat should be 0-500ohms).

MOST OF THESE PARTS CAN BE OBTAINED FROM A LOCAL JUNK YARD OR SURPLUS STORE. YOU CAN OBTAIN PARTS FROM US ALSO. 619-414-6631 VM.

LET'S BUILD IT:

TEFLON COAT THE INSIDE OF THE CANISTER.

STEP 1. USE A RULER AND PROTRACTOR OR COMPASS TO FIND THE CENTER ON THE BACK OF THE CAN. ONCE YOU FIND THE CENTER DRILL IT OUT WITH A DRILL BIT THAT IS 2 TIMES THE SIZE OF THE MOTOR SHAFT. IF THE MOTOR HAS A PROTRUDING BORDER AROUND THE SHAFT THEN YOU MUST DRILL THE HOLE THE SAME SIZE AS THE PROTRUSION. ONCE THE HOLE HAS BEEN DRILLED YOU MUST LINE UP THE SCREW HOLES IN THE TOP OF THE MOTOR AND PLACE SCREWS THROUGH THE CAN AND INTO THE MOTOR TO FASTEN IT TO THE CAN SECURELY. YOU SHOULD NOW HAVE A MOTOR WITH A CAN SECURELY FASTENED TO IT. SEE FIGURE 1.

STEP 2. DRAW A LINE THROUGH THE CENTER OF THE DISC. MAKE SURE THE LINE GOES THROUGH THE CENTER POINT OF THE DISC. NOW DRAW A LINE ON EACH SIDE OF THE DISC, THE THICKNESS SIDE. ONCE THAT LINE IS DRAWN FIND THE CENTER AND DRILL A HOLE THAT IS SLIGHTLY BIGGER THAN A BB. DRILL A HOLE ON BOTH SIDES. ATTACH THE CYLINDER OR DISC TO THE SHAFT. A PREBALANCED SHAFT WITH A PERFECTLY MATCHED HOLE TO SHAFT SLIP IN CONNECTION WOULD BE MOST IDEAL FOR HIGH SPEED AND BALANCE. IT WOULD BE SMART OF YOU TO FIND A DISC BEFORE FINDING A MOTOR. SEE FIGURE 2.

STEP 3. LINE UP ONE OF THE HOLES ON THE DISC TO THE LID FROM THE CANISTER. DRILL OUT THIS HOLE ABOUT TWO TIMES THE SIZE OF A BB. MAKE SURE ALL BURRS ARE REMOVED. NOW YOU WILL NEED TO DESIGN YOUR WINDOW. REMEMBER THERE WILL BE TWO LAYERS OF STEEL ONCE THE LID IS PLACED ON. ONLY DRILL THE HOLE IN THE FIRST ONE, CLOSEST TO THE DISC. DRILL A HOLE TWICE THE SIZE ON THE SECOND LAYER OF STEEL. DESIGN A WINDOW THAT IS THE SAME SIZE AS THE FIRST HOLE. FASTEN THE WINDOW SO THAT IT WILL BE PULLED EITHER OUT AND OVER OR FLIPPED OPEN QUICKLY. EITHER USE AN ELECTRIC SOLINOID OR USE A SHUTTER RELEASE FROM A DISPOSABLE CAMERA. SEE FIGURE 3.

STEP 4. NOW CONNECT THE RHEOSTAT, SWITCH AND BATTERY CONNECTORS. SEE FIGURE 4.

THE DEVICE SHOULD BE READY TO USE NOW. PLACE A BB IN THE HOLE, CLOSE THE WINDOW AND TURN IT ON. OPEN THE WINDOW ONCE THE DEVICE STARTS TO RESONATE OR HUM.

FIGURE 1.

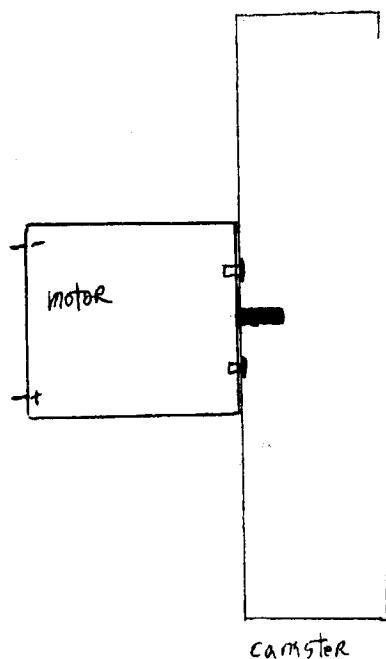


FIGURE 2.

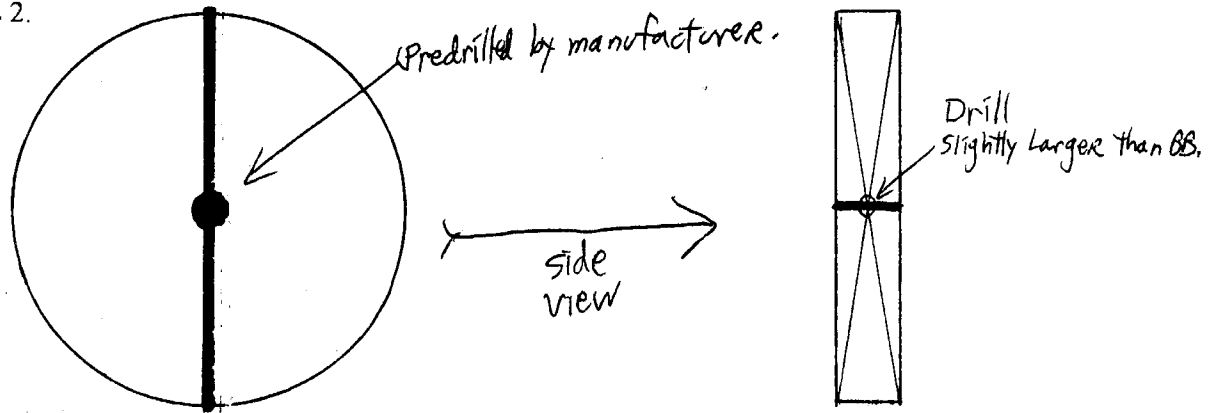


FIGURE 3.

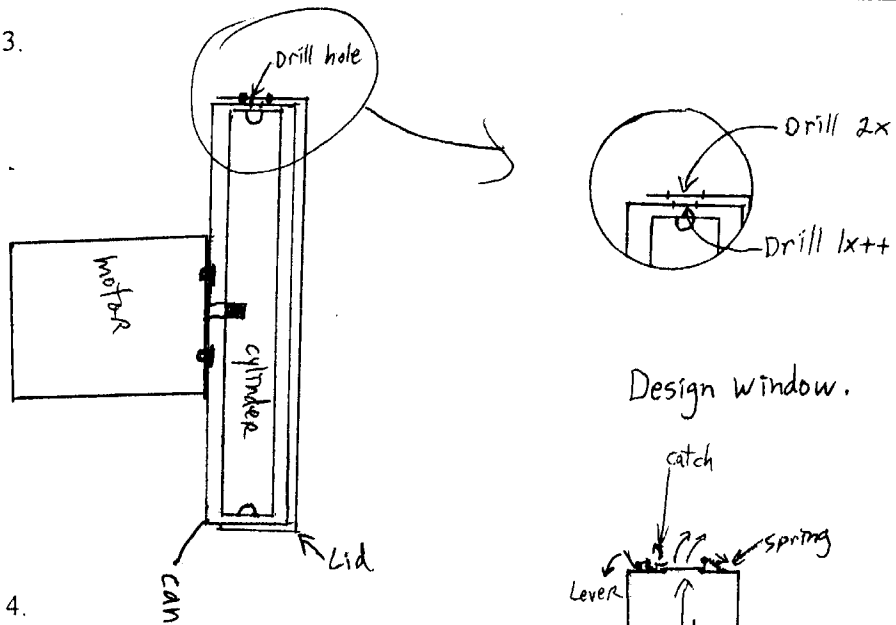


FIGURE 4.

