



Instruction
#1001966B

SHOOTIN' GALLERY™

MOTORIZED MOVING TARGET SYSTEM

Assembly and Usage Instructions



NOT WARRANTED AGAINST MISUSE, ABUSE, OR COMMERCIAL USE.

Limited Warranty

Every Caldwell product is warranted to be free of defects in materials and workmanship for a period of one (1) year from the date of original purchase. Caldwell will, at its option, repair or replace without charge, except for transportation costs, parts that fail under normal use and service when operated and maintained in accordance with our Instructions. This warranty does not apply to normal wear or to items whose life is dependent upon their use and care. This warranty is in lieu of all other warranties, expressed or implied and releases Caldwell, its affiliates, and its vendors from all other obligations and liabilities.

STOP! If you have a problem with your Shootin' Gallery, DON'T RETURN THIS PRODUCT TO THE STORE WHERE YOU PURCHASED IT. Contact customer service for assistance at...

**Battenfeld Technologies, Inc. / 5885 W. Van Horn Tavern Rd. / Columbia, MO 65203
573-445-9200 / www.caldwellshooting.com / Email: sales@battenfeldtechnologies.com**

2. SAFETY PRECAUTIONS

Instructions read left to right, top to bottom.

 **WARNING! READ THESE INSTRUCTIONS IN THEIR ENTIRETY BEFORE USING THIS PRODUCT.**


FIREARMS SAFETY

Always follow the four fundamental rules of firearms safety:

1. Assume every gun is loaded.
2. Never let your muzzle cross anything you are not willing to destroy.
3. Know your target and what's beyond it.
4. Keep your finger off the trigger guard until you are on target and ready to fire.

Always wear eye and ear protection when shooting or in the area of shooting.

Never allow anyone to go forward of the firing line until shooting ceases and all weapons are made safe - unloaded with actions open.

 **WARNING: Use only standard velocity .22 long rifle caliber ammunition. Any other ammunition, including smaller calibers, can cause damage and create unsafe conditions. Do not use air guns. Steel BB's will ricochet.**

ELECTRICAL SAFETY

 **WARNING: Turn power off and disconnect battery before handling or servicing the product.**

Keep motor and wiring dry. Do not use Shootin' Gallery in rain or snow. Store indoors. If motor or wiring become wet, allow to dry thoroughly before using.

BATTERY SAFETY

 **WARNING: Risk of fire, explosion or burns. Do not disassemble, incinerate or expose to heat above 120°F**

Charge in a well ventilated area. Do Not Overcharge. See Battery Charging Instructions.

LOCATION

Be sure you have a safe backstop, such as a hill or berm of soft earth.

 **WARNING: Do not use rubble or concrete as a backstop. Bullets can ricochet off hard surfaces.**

Place the Shootin' Gallery on the ground. Do not elevate the product. Always shoot directly at the product (shooter should be perpendicular to the target).

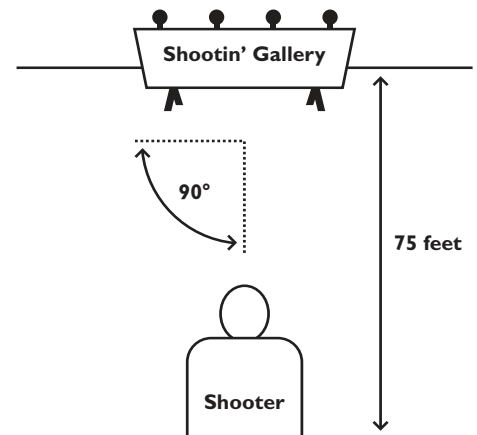
Shooters must keep at least 75 feet back from Shootin' Gallery. Keep all bystanders behind shooters.

LEAD SAFETY

Your Shootin' Gallery will accumulate lead residue from lead ammunition. Always wash your hands with warm soapy water after handling the Shootin' Gallery and before eating or drinking.

 **WARNING: Always keep children away from Shootin' Gallery, even when it is stored. Children are more susceptible than adults to lead poisoning.**

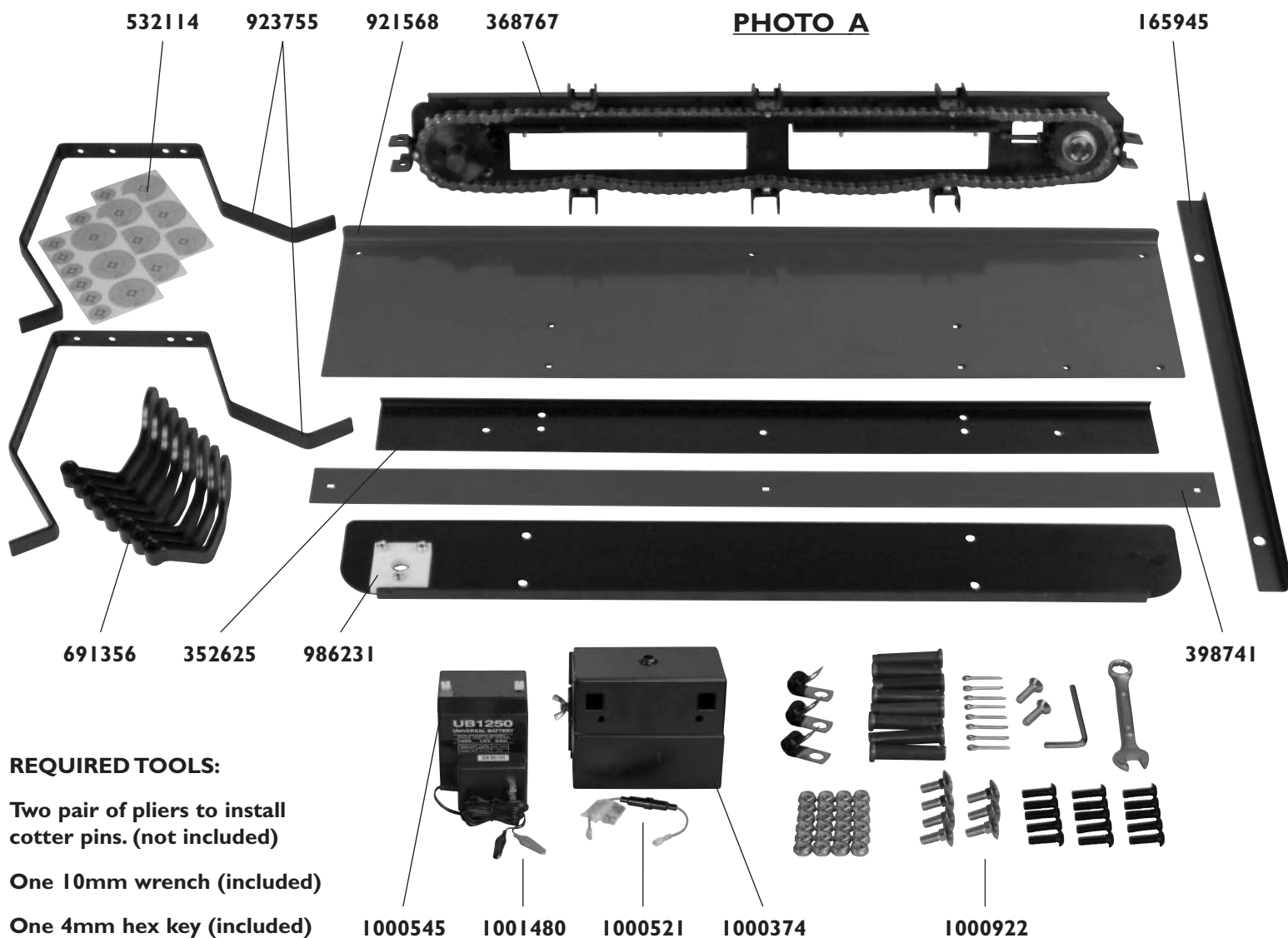
 **WARNING: This product to be used by adults only or under direct adult supervision.**



Instructions continued on page 3. >>>>

IDENTIFYING ALL THE COMPONENTS

Thank you for purchasing a Caldwell Shootin' Gallery. Please take a moment to locate all of the parts shown in the photos below. Be careful not to damage parts as they are removed from the packaging. Avoid damage to the leads on the electric motor.



REQUIRED TOOLS:

- Two pair of pliers to install cotter pins. (not included)
- One 10mm wrench (included)
- One 4mm hex key (included)

| Qty | Description | Part # |
|-----|---|---------|
| 1 | Drive System Assembly | 368767 |
| 1 | Front Wall | 921568 |
| 1 | Impact Plate | 398741 |
| 2 | Legs | 923755 |
| 1 | Motor Cover | 352625 |
| 1 | Back Cover | 986231 |
| 1 | Target Impact Angle | 165945 |
| 1 | Battery Box | 1000374 |
| 1 | Battery | 1000545 |
| 1 | Battery Charger | 1001480 |
| 8 | Targets | 691356 |
| 3 | Shooting Spots Sheets | 532114 |
| 1 | Fuse Holder Assembly (Inside Battery Box) | 1000521 |

| Qty | Description | Part # |
|-----|---------------------------|---------|
| 1 | Hardware Pack | 1000922 |
| 15 | M6 Button Head Capscrews | 1000741 |
| 7 | M6 Carriage Bolts | 1000746 |
| 2 | M6 FlatHead Screws | 1000745 |
| 24 | M6 Nylon Insert Lock Nuts | 1000743 |
| 8 | Clevis Pins | 1000717 |
| 8 | Cotter Pins | 1001702 |
| 3 | P Clamps | 1000750 |
| 1 | 4mm Hex Key | 1001136 |
| 1 | 10mm Open End Wrench | 1001139 |

Instructions continued on page 4. >>>>

4. ASSEMBLY

Note: A clean workbench or old table will make assembly easier. An assistant would be helpful for some of the steps.

STEP 1: Assemble the Motor Cover to the Legs

Let the two Legs (923755) stand parallel. Assemble the Motor Cover (352625) to the legs using four M6 Button Head Cap Screws (1000741) and four M6 Lock Nuts (1000743). Pay attention to the orientation of the Motor Cover, it should be placed as shown in **Photo B**. Tighten lock nuts.

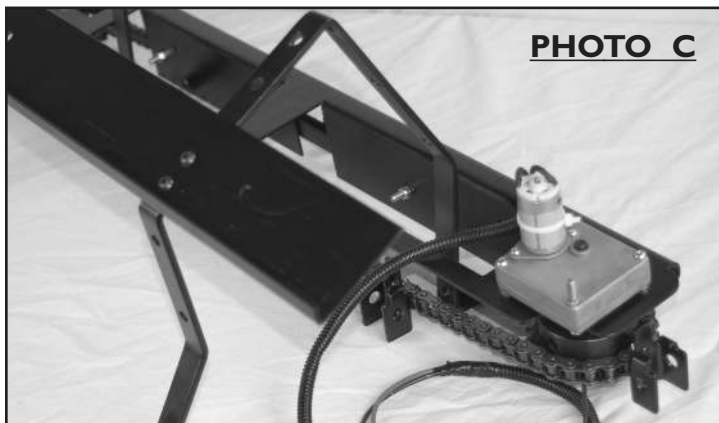


STEP 2: Assemble the Drive System Assembly

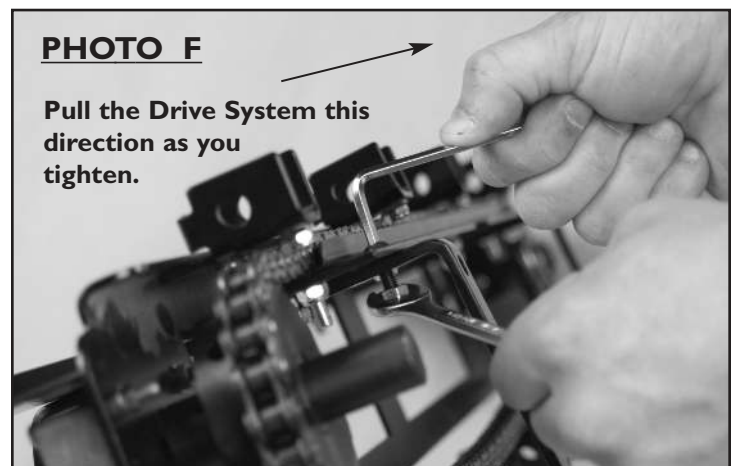
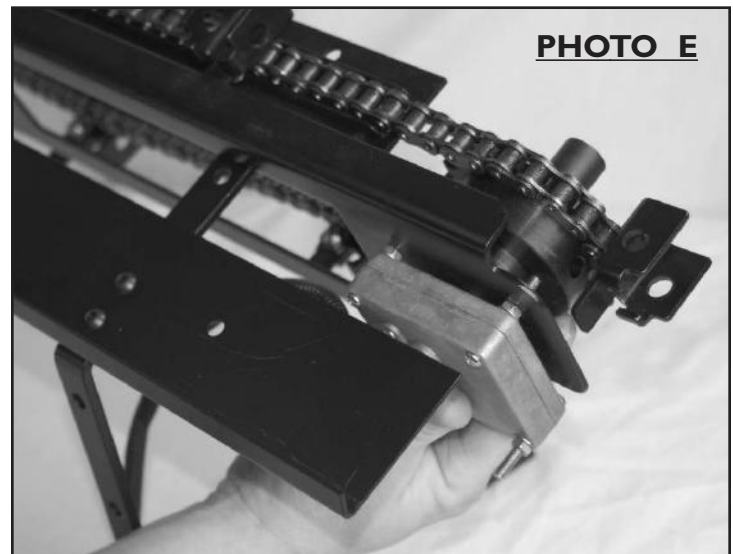
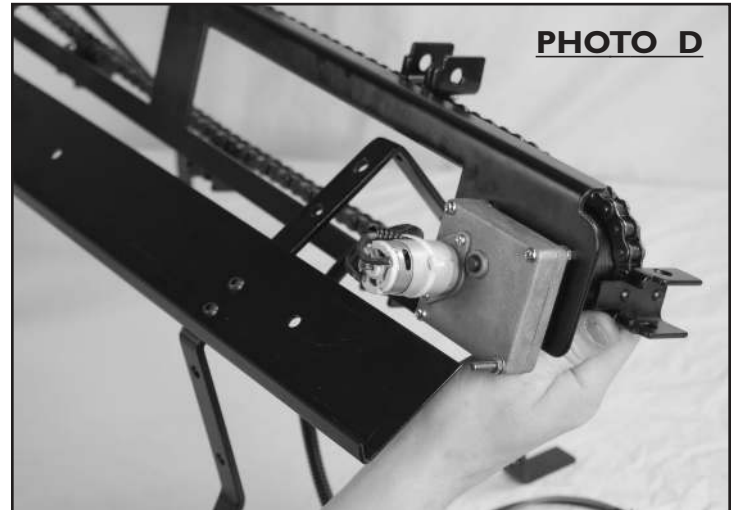
Note: The chain comes greased, you may want to wear old clothes and/or light-duty gloves that you don't mind getting grease on.

Lay the Drive System (368767) on the work surface as shown in **Photo C**.

Lifting one side of the Leg and Motor Cover Assembly, guide the first Leg through the cavity of the Drive System. Repeat with the other Leg.



Place the Drive System next to the Motor Cover as shown in **Photos D, E, F, and G**. Avoid damage to the motor leads when installing the Drive System. Assemble four M6 Button Head Screws and Lock Nuts. Make sure the legs are still parallel. **IMPORTANT: The mounting holes are oversized. Slide and hold the Drive System Assembly away from the motor cover as you tighten the nuts. This will ensure proper fit of the Back Cover (986231) in the next step.**



Instructions continued on page 5. >>>>

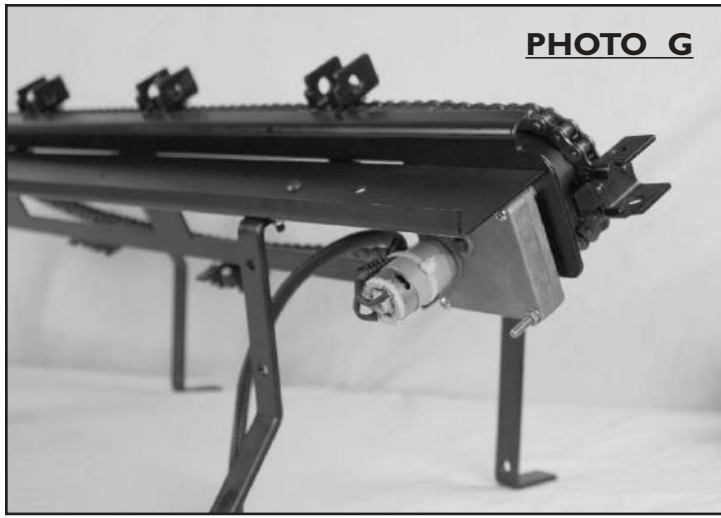


PHOTO G

STEP 3: Assembling the Back Cover

Assemble the Back Cover (986231) to the Legs as shown in **Photo H**. If the holes are not aligned well, loosen the lock nuts of Drive System or/and Motor Cover and adjust Legs. You may also need to loosen the bolts in the white block bushing. Insert two M6 Button Head Cap Screws into **TOP HOLES ONLY** on the Back Cover and install two Lock Nuts. The bolts in the lower holes will be installed in the next step. Make sure the end of the long motor shaft is inside the white block bushing as shown. **Remember to retighten any bolts you may have loosened.**

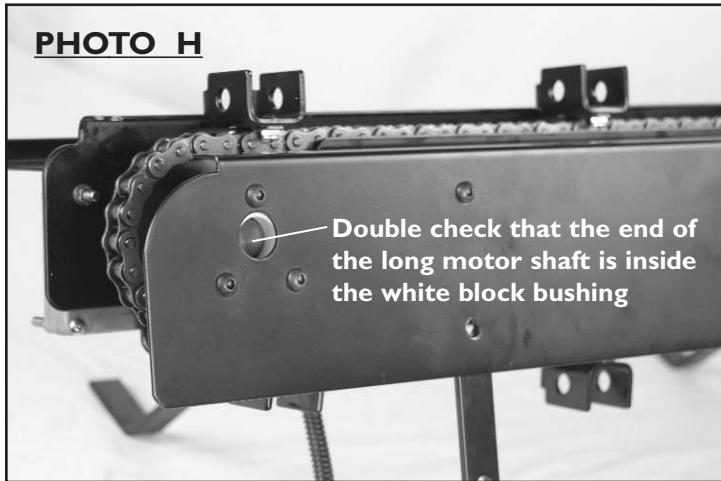


PHOTO H

STEP 4: Assembling the Target Impact Angle

Assemble the Target Impact Angle (165945) onto the Back Cover as shown in **Photo I**. Fasten the Target Impact Angle and Back Cover to the Legs by two M6 Flat Head Cap Screws (1000745) and M6 Lock Nuts (1000743). Tighten the lock nuts.



PHOTO I

STEP 5: P-Clamp Assembly and Wire Harness Routing

There are three P-clamps (1000750) to organize the motor wires as shown in **Photo J**. Fasten the P-clamps to the Motor Cover by three M6 Button Head Cap Screws and M6 Lock Nuts.

IMPORTANT: Make sure the P-clamps are oriented and wires routed as shown in Photo J, to prevent potential failures.

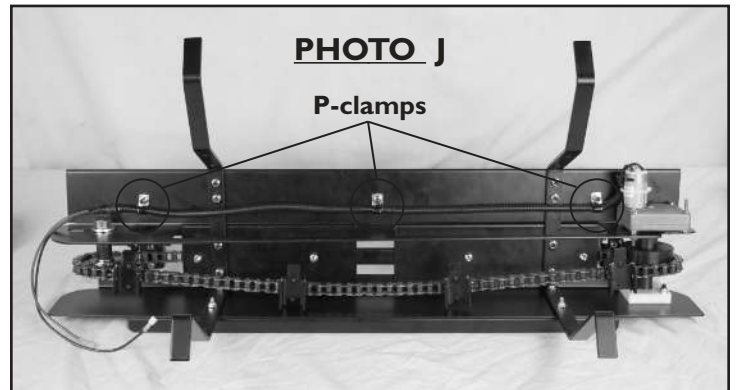


PHOTO J

P-clamps

STEP 6: Assemble the Impact Plate to the Front Wall

Fasten the Impact Plate (398741) to the Front Wall (921568) by three M6 Carriage Bolts (1000746) and M6 Lock Nuts (1000743). Tighten lock nuts. **Photo K.**



PHOTO K

Instructions continued on page 6. >>>>

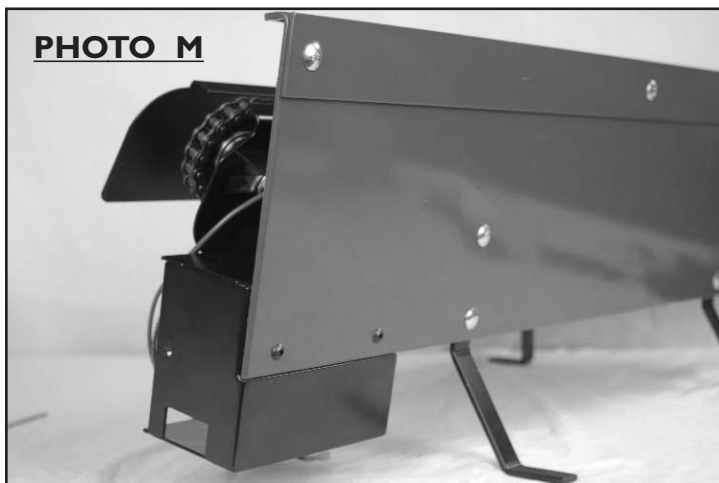
6. STEP 7: Assembling the Battery Box to the Front Wall

Assemble the Battery Box (1000374) to the Front Wall using two M6 Button Head Screws(1000741) and two M6 Lock Nuts (1000743). Tighten nuts. **Photo L.**



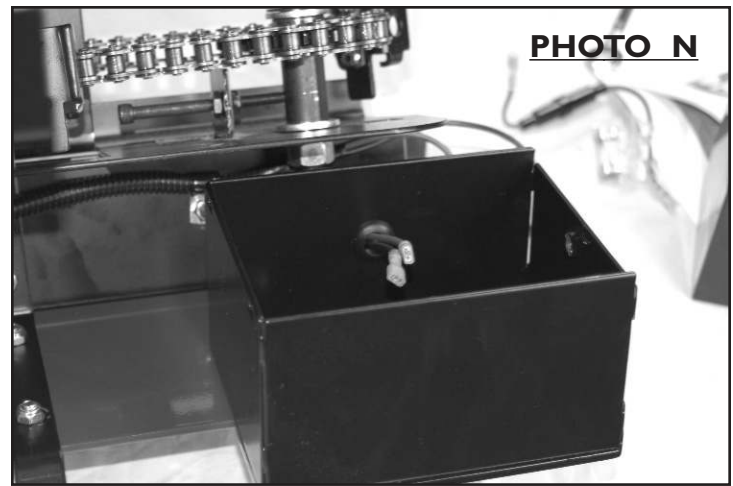
STEP 8: Assembling the Front Wall

Assemble the Front Wall to Legs by four M6 Carriage Bolts (1000746) and four M6 Lock Nuts (1000743). Assemble the lower RH bolt and nut first. This will allow you to use the battery box as a prop for aiding the assembly. Next assemble the upper LH bolt and nut. Install the remaining two bolts and nuts. Tighten all lock nuts. Note that the Front Wall is heavy. An assistant would be helpful for this step. **Photo M.**

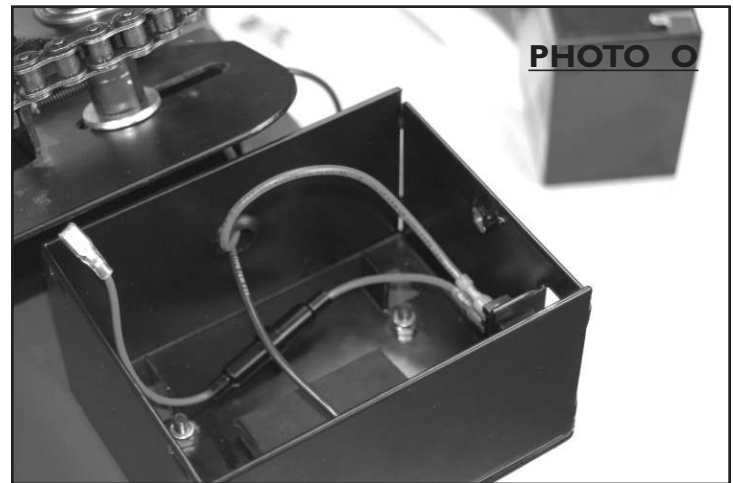


STEP 9: Wiring Inside the Battery Box

Pull the motor wires through the Battery Box grommet as shown in **Photo N.** Make sure the grommet is securely in place.



Connect one end of the Fuse Holder (1000521) to one of the connectors on the switch. Connect the red motor wire to the other connector on the switch. Make sure the connections are secure. **Photo O.**

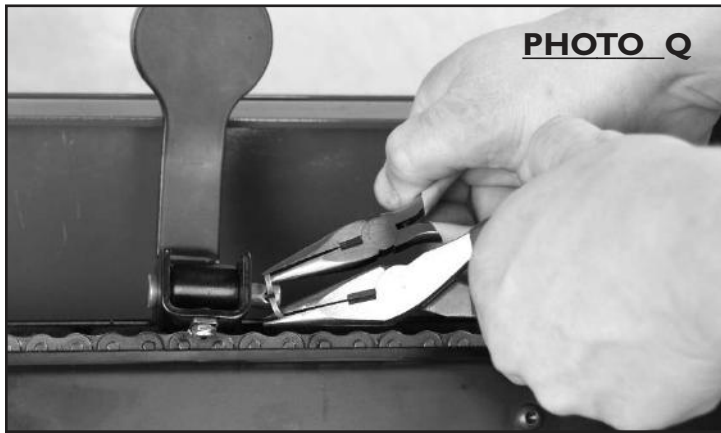
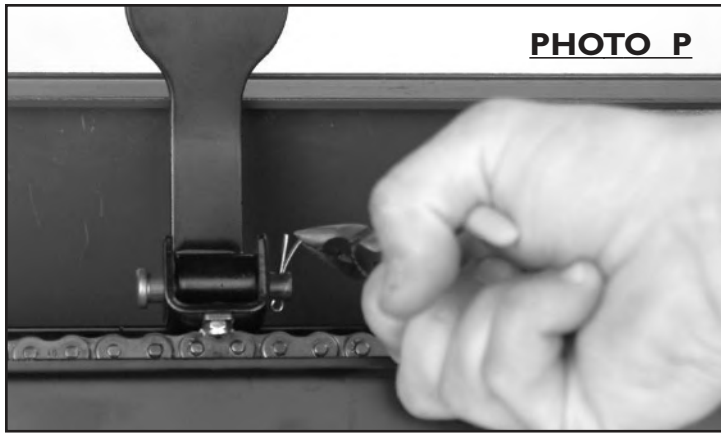


DO NOT INSTALL THE BATTERY UNTIL YOU HAVE READ AND UNDERSTAND THE USAGE INSTRUCTIONS AND COMPLETED ASSEMBLY OF THE UNIT.

STEP 10: Installing the Targets

Place a Target (691356) into a target bracket on the chain as shown. Insert the Clevis Pin (1000717). Secure using a Cotter Pin (1001702) with the two pair of pliers as shown at the top of page 7. Be sure to keep the Cotter Pins formed tightly against the Clevis Pin to avoid snagging other objects. Repeat this for the remaining seven Targets. If you need to advance the chain to gain access to the other target brackets, you can do so by holding one of the installed Targets and pulling hard to overcome the motor and advance the chain. **Photos P and Q.**

Instructions continued on page 7. >>>>



STEP 11: Attach the Self-Adhesive Target Spots to the Targets

STEP 12: Battery Charging and System Test

Important: Do not overcharge the battery.

Never charge the battery while connected to the Shootin' Gallery. Charge in a well-ventilated area.

Use the provided Charger (1001480) to charge the Battery (1000545). Connect the alligator clips to the Battery before plugging the Charger into the wall. Make sure the clips are connected tightly and securely to the terminals on the Battery. The light on the Battery charger will illuminate RED while charging and GREEN when fully charged. **Important: Do not overcharge the Battery.** To avoid damaging the Battery, remove the Battery immediately when the light turns GREEN. **The Charger DOES NOT turn itself off.**

Avoid fully discharging the Battery. Deep discharging can damage the Battery. When you notice the Shootin' Gallery slowing down because the Battery charge is low, stop and recharge the Battery. It may take several hours to charge the Battery. Monitor indicator light.

 **WARNING: Keep hands and clothing clear of chain, sprocket, and other moving parts.**

Make sure the switch is turned OFF. Carefully **7.** connect the Red Wire to the Red battery terminal and the black wire to the black battery terminal.

Place the Battery in the Battery Box and replace the access panel and secure with the wing bolt. Make sure wires are not pinched when replacing the access panel.

 **WARNING: Keep hands and clothing clear of chain, sprocket, and other moving parts.**

Turn power switch ON. Targets should move from left to right as you face the front of the Shootin' Gallery. (If not, check Battery connections.)

Carefully use a small stick such as a ruler or yardstick to knock over a couple of the targets. As the fallen targets rotate around the chain, they should reset automatically.

Turn switch off.

CONGRATULATIONS: You are now ready to set up your Shootin' Gallery for use. Read instructions carefully.

SETTING UP AND USING YOUR SHOOTIN' GALLERY

1. Place the Shootin' Gallery on level, soft ground where there is a good backstop, such as a hill or berm of soft earth. A .22 caliber bullet can travel as much as a mile before losing energy. Be sure that if you miss the target, your round will be stopped safely. Do not place the shootin' gallery on an elevated surface. The Shootin' Gallery must be at the same level as the shooter's feet. Always shoot from a position directly in front of the Shootin' Gallery. Shooting from an angle could cause ricochet or prevent targets from falling.

2. Inspect the Shootin' Gallery for damage and loose or missing parts before each use. Tighten any loose bolts or screws (impact from shooting can loosen them). **DO NOT USE IF PRODUCT IS DAMAGED, MISSING PARTS, OR IF TARGETS ARE DEFORMED.**

Replacement parts are available from Battenfeld Technologies, Inc. www.battenfeldtechnologies.com

3. Inspect wires for wear and make sure they are properly secured.

4. **WARNING: Keep hands and clothing clear of chain, sprocket, and other moving parts.** Make sure power switch is OFF and connect the fully charged battery. Note: You may need to charge battery before use. Turn power switch ON. Targets should move from left to right as you face the front

Instructions continued on page 8. >>>>

of the Shootin' Gallery. (If not, check the battery connections.)

5. Return to the firing line, and when it is safe to do so, fire at the targets. As a round strikes the target, it will tip back out of sight. As the targets return to their starting position, they will automatically reset. **Only one shooter at a time.**



WARNING: If the Shootin' Gallery stops unexpectedly or otherwise malfunctions, follow these steps:

1. Cease fire.
2. Make sure all weapons are unloaded with actions open.
3. When it is safe to do so, approach the Shootin' Gallery
4. Turn power switch OFF and disconnect the battery.
5. If you cannot identify and fix the problem, contact Battenfeld Technologies, Inc. www.battenfeldtechnologies.com

Note: Your Shootin' Gallery is provided with 2 spare fuses. Additional fuses are readily available at most automotive stores or automotive departments.



WARNING: Use only AGC 3-Amp Fuses.

MAINTAINING AND STORING YOUR SHOOTIN' GALLERY



WARNING: Always turn power OFF and disconnect the battery before servicing or storing the Shootin' Gallery

Caring for the Drive System



WARNING: Turn power switch OFF and disconnect battery before servicing drive system.

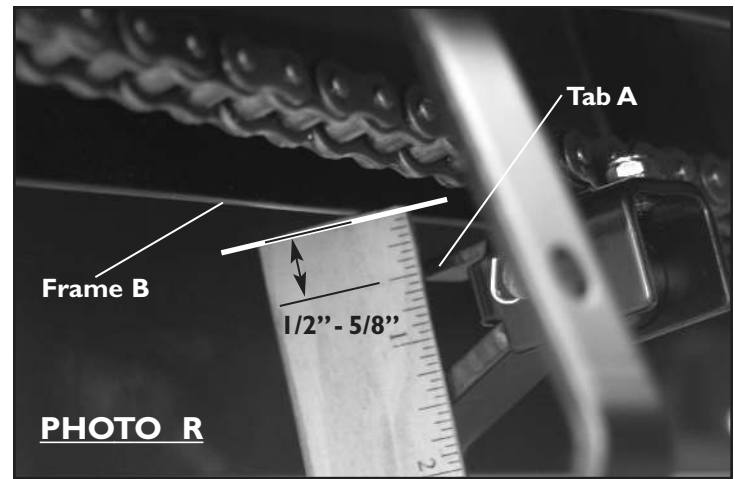
Lubricate the chain with light-weight gear oil such as bicycle chain oil at least twice a year, or more often if the chain appears dry.

Chain tension is set at the factory, but you should check it after final assembly and before each use.

Important: If the chain is too tight, it can cause premature wear and/or damage the motor.

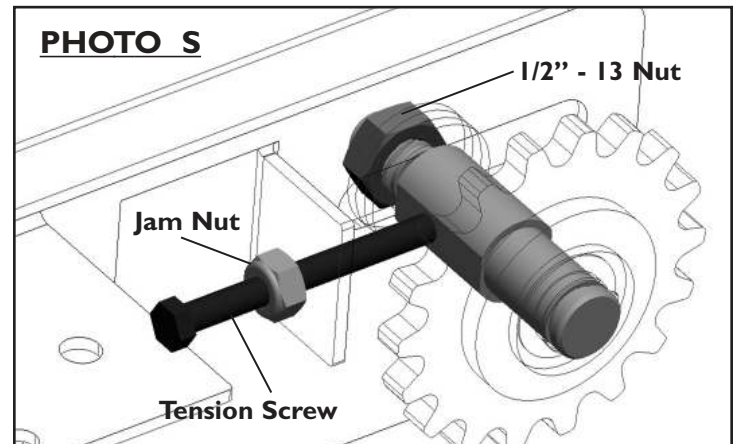
To Check the Chain Tension: (Photo R)

1. Make sure that four targets are at the bottom of the chain drive.
2. Measure the distance from Tab "A" on the target bracket to the edge of the drive system frame "B". This measurement should be between $\frac{1}{2}$ " and $\frac{5}{8}$ ". Adjust as needed.



To Adjust Chain Tension: (Photo S)

1. Loosen the $\frac{1}{2}$ "-13 nut on the idler shaft.
2. Disassemble the back cover and target reaction angle.
3. Loosen the jam nut and tighten or loosen the $\frac{1}{4}$ "-20 tension screw until chain tension is correct.
4. Retighten the $\frac{1}{2}$ "-13 Nut (watch for movement as you tighten).
5. Retighten the Jam nut.
6. Check Chain tension again and repeat the process if further adjustment is needed.
7. Re-assemble the back cover and steel angle.



Storing the Shootin' Gallery

Turn the power switch OFF and disconnect battery. Store in a secure, dry location, away from children.

Ordering Replacement Parts

The Shootin' Gallery is not warrantied against misuse, abuse, or commercial use. Should you need a replacement part, please contact Battenfeld Technologies, Inc., 5885 W. Van Horn Tavern Rd., Columbia, MO 65203, 573-445-9200, www.caldwellshooting.com.