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**TIPPMANN™**

**C3™**

**Owner's Manual  
Le Manuel du Propriétaire  
Manual del Usuario**



PN# TP04700 Date: 9/05



## WARNING

**THIS IS NOT A TOY. MISUSE MAY CAUSE SERIOUS INJURY OR DEATH. EYE, FACE AND EAR PROTECTION DESIGNED FOR PAINTBALL MUST BE WORN BY THE USER AND ANY PERSON WITHIN RANGE. WE RECOMMEND AT LEAST 18 YEARS OLD TO PURCHASE. PERSONS UNDER 18 MUST HAVE ADULT SUPERVISION WHEN USING THIS PRODUCT. READ THE OWNER'S MANUAL BEFORE USING THIS PRODUCT.**

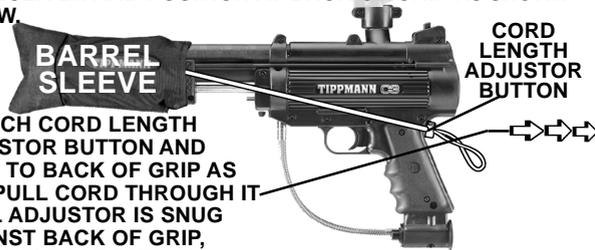


## WARNING

### BARREL SLEEVE INSTALLATION

• EXCEPT WHEN YOUR MARKER IS IN USE, ALWAYS MAKE SURE THAT THE TRIGGER SAFETY IS IN SAFE MODE (SEE INSTRUCTIONS ON PAGE 4), AND THE BARREL SLEEVE IS PROPERLY INSTALLED ON YOUR MARKER AS SHOWN BELOW.

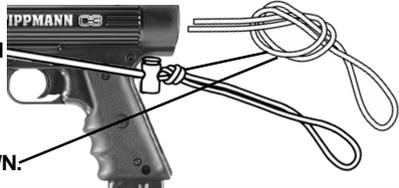
1) SLIDE BARREL INTO SLEEVE AND LOOP CORD OVER TOP OF RECEIVER AND POSITION AT BACK OF GRIP AS SHOWN BELOW.



2) PINCH CORD LENGTH ADJUSTOR BUTTON AND HOLD TO BACK OF GRIP AS YOU PULL CORD THROUGH IT UNTIL ADJUSTOR IS SNUG AGAINST BACK OF GRIP, THEN RELEASE BUTTON.

3) CHECK TO BE SURE YOU LEAVE ENOUGH CORD ELASTICITY TO PULL CORD/ADJUSTOR UP OVER TOP OF MARKER TO REMOVE BARREL SLEEVE FOR FIRING.

4) AFTER CORD LENGTH IS ADJUSTED, LOCK CORD LENGTH BY TYING A KNOT IN THE CORD AGAINST THE BACK OF THE ADJUSTOR AS SHOWN.



# TIPPMANN™

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CONGRATULATIONS on your purchase of your Tippmann™ C3™ paintball marker. We believe it to be the most accurate and durable paintball marker available, and proudly manufactured in the USA. The Tippmann™ C3™ will give many years of dependable service if cared for properly.

Please take time to read through this manual thoroughly and become familiar with the Tippmann™ C3™ parts, operation, and safety precautions before you attempt to load or fire this marker. If you have a missing or broken part or need assistance, please contact Tippmann™ Consumer Relations at 1-800-533-4831 for fast friendly service.

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## Warning/Liability Statement

This marker is classified as a dangerous weapon and is surrendered by Tippmann Sports, LLC with the understanding that the purchaser assumes all liability resulting from unsafe handling or any action that constitutes a violation of any applicable laws or regulations. Tippmann Sports, LLC shall not be liable for personal injury, loss of property or life resulting from the use of this weapon under any circumstances, including the intentional, reckless, negligent or accidental discharges.

All information contained in this manual is subject to change without notice. Tippmann Sports, LLC reserves the right to make changes and improvements to products without incurring any obligation to incorporate such improvements in products previously sold.

If you as a user do not accept liability, Tippmann Sports, LLC requests you do not use a Tippmann Sports, LLC marker. By using this paintball marker you release Tippmann Sports, LLC of any and all liability associated with its use.

## SAFETY IS YOUR RESPONSIBILITY!



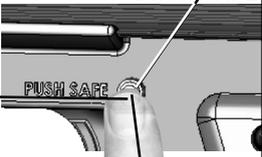
### WARNING

TRIGGER SAFETY ACTIVATION
 PUSH SAFE

- EXCEPT WHEN YOUR MARKER IS IN USE, ALWAYS MAKE SURE THAT THE BARREL SLEEVE IS INSTALLED (SEE PAGE 2) AND THE TRIGGER SAFETY IS IN SAFE MODE WHICH DISABLES THE TRIGGER.

**TO TURN ON THE SAFETY (SAFE MODE): PUSH THE SAFETY IN AS SHOWN ABOVE.**

**TO TURN SAFETY OFF (FIRE MODE): PUSH SAME BUTTON ON OPPOSITE SIDE OF RECEIVER.**



## FAMILIARIZE YOURSELF WITH SAFETY...

The ownership of this weapon places upon you the total responsibility for its safe and lawful use. You must observe the same safety precautions as you would any firearm to assure the safety of not only yourself but everyone around you. The user should at all times use caution when using this marker. The sport of Paintball will be viewed and judged upon your

safe and sportsmanlike conduct. Always remember that the game of Paintball can only survive and grow if it remains SAFE!

- Do not load or fire this marker until you have completely read this manual and are familiar with its safety features, mechanical operation and handling characteristics.
- Handle this and any marker as if it were loaded at all times.
- Eye, face and ear protection designed specifically to stop paintballs in the form of approved goggles and full face mask should be worn by the user and any person within range.
- Never shoot at a person who is not protected by eye, face and ear protection designed for paintball.
- Pressurize and load the marker only when the marker will be immediately used.
- Keep your finger off the trigger until ready to shoot.
- Do not look down the barrel of a paintball marker. Accidental discharge into the eyes may cause permanent injury or death.
- Keep the marker on safe until ready to shoot.
- Keep the barrel sleeve installed on marker when not shooting.
- Never point the marker at anything you do not intend to shoot.
- Never fire your marker at anything you do not intend to shoot because there may be balls or foreign debris lodged in the chamber, barrel and / or the marker valve.
- Do not fire at flammable objects as sparks coming from the barrel could cause a fire.
- Use only in a well ventilated area.
- Do not install or remove cylinder near flames or other ignition source.
- Keep exposed skin away from escaping gas when installing or removing propane supply cylinder or if the marker or propane supply is leaking. Compressed propane gas is very cold and can cause frostbite under certain conditions.
- Do not inhale propane fumes.
- Other than briefly when attaching or detaching propane cylinder, if you smell propane - remove the propane cylinder and seek qualified repair from Tippmann™ or your local paintball dealer. Do not fire the marker if you smell propane.
- Do not shoot at fragile objects such as windows.
- Never fire your marker at personal property of others, the paintball can stain the paint of automobiles and houses.
- Always keep the muzzle pointed down or in a safe direction, even if you stumble or fall.

- Before storing or disassembling:
  - 1) Remove paintballs from the marker. Completely empty the hopper, point your marker in a safe direction, fire several times to be sure there are no balls lodged in the chamber and/or barrel.
  - 2) Remove the propane supply then pump and fire in a safe direction until there is no propane left in the marker.
  - 3) Install the barrel sleeve (see page 2) and put safety into the safe mode (see page 4).
- Store the marker unloaded and degassed in a secure place.
- Do not disassemble this marker while it is pressurized with propane supply.
- Do not pressurize a partially assembled marker with propane supply.
- Dress appropriately when playing the game of paintball. Avoid exposing any skin when playing the game of paintball. Even a light layer will absorb some of the impact and protect you from the paintballs.
- Use only .68 caliber paintballs, never load or fire any foreign objects.
- Avoid alcoholic beverages before and during the use of this marker. Handling markers while under the influence of drugs or alcohol is a criminal disregard for public safety.
- Avoid shooting an opponent at point blank, 6 feet or less.
- Always measure your marker's velocity before playing paintball and never shoot at velocities in excess of 300 feet per second (see Velocity Adjustment on page 9).
- Keep barrel clean and dry at all times.
- Familiarize yourself with and follow safe propane cylinder handling and storage procedures as outlined on the cylinder label and as follows in the Propane Cylinder Handling and Storage section on page 7.

## Propane Cylinder Handling and Storage



### WARNING

FOLLOW HANDLING AND STORAGE INSTRUCTIONS ON PROPANE CYLINDER IN ADDITION TO THE FOLLOWING.

#### **CARBON MONOXIDE HAZARD:**

**BURNING PROPANE CAN MAKE CARBON MONOXIDE WHICH IS INVISIBLE, HAS NO SMELL AND CAN KILL YOU. BURNING PROPANE IN AN ENCLOSED AREA CAN BE DANGEROUS. USE ONLY IN WELL-VENTILATED AREAS. IF YOU EXPERIENCE HEADACHE, DROWSINESS, OR NAUSEA, STOP USING THE MARKER AND GET FRESH AIR QUICKLY.**

#### **PROPANE CYLINDER HANDLING AND STORAGE:**

1. KEEP OUT OF REACH OF CHILDREN.
2. DO NOT EXPOSE TO HEAT, SPARKS, OR FLAME.  
DO NOT LEAVE IN DIRECT SUNLIGHT.  
DO NOT STORE AT TEMPERATURES ABOVE 120° F.
3. NEVER STORE IN LIVING SPACES.
4. NEVER REFILL A PROPANE CYLINDER. REFILLING MAY CAUSE EXPLOSION. FEDERAL LAW FORBIDS TRANSPORTATION IF REFILLED-PENALTY UP TO \$500,000 AND 5 YEARS IMPRISONMENT. (49 U.S.C. 5124).
5. NEVER PUT IN LUGGAGE OR TAKE ON TRAINS OR AIRCRAFT.
6. TO DISCARD, CONTACT LOCAL REFUSE HAULER OR RECYCLE CENTER. NEVER PUT IN FIRE OR INCINERATOR. DO NOT PUNCTURE.

**FIRE / EXPLOSION HAZARD: EVEN SMALL PROPANE CYLINDERS CONTAIN ENOUGH GAS TO CAUSE SERIOUS FIRE, EXPLOSION, AND BURNS. TO REDUCE CHANCE OF LIQUID OR GAS LEAK, OR EXPLOSION:**

#### **BEFORE USE:**

1. CHECK CYLINDER AND MARKER SEALS. NEVER USE WITH DAMAGED OR MISSING SEALS. DISCARD CYLINDER IF DIRT OR RUST PARTICLES ARE IN VALVE AREA.
2. HOLD CYLINDER UPRIGHT WHILE ATTACHING.
3. ATTACH OUTDOORS AWAY FROM PILOT LIGHTS, FLAMES, SPARKS, OR OTHER IGNITION SOURCES. THEY CAN IGNITE LEAKING GAS.
4. HAND TIGHTEN ONLY. OVERTIGHTENING MAY DAMAGE SEALS. NEVER USE TOOLS TO TIGHTEN.
5. CHECK FOR LEAKS IN ONE OR MORE WAYS: APPLY SOAPY WATER TO CONNECTIONS. LOOK FOR BUBBLES. LISTEN FOR HISS OF ESCAPING GAS. FEEL FOR EXTREME COLD. SMELL FOR ROTTEN EGG ODOR. DO NOT USE IF LEAKING.

#### **AFTER USE:**

1. LET MARKER COOL OFF.
2. DETACH CYLINDER WHEN NOT IN USE.
3. DETACH OUTDOORS AWAY FROM PILOT LIGHTS, FLAMES, SPARKS, OR OTHER IGNITION SOURCES. THEY CAN IGNITE LEAKING GAS.
4. REPLACE CYLINDER CAP TO KEEP VALVE CLEAN.

#### **IN CASE OF FIRE:**

1. LEAVE AREA QUICKLY.
2. CALL FOR EMERGENCY HELP.
3. LET CYLINDER BURN OUT.

**GETTING STARTED**

Do not proceed until you have both familiarized yourself with and are prepared to always follow guidelines for proper propane cylinder and marker handling and storage.

**⚠ DANGER**

- EXTREMELY FLAMMABLE
- FIRE/EXPLOSION HAZARD
- CONTENTS UNDER PRESSURE
- CARBON MONOXIDE HAZARD

**STEP 1: Installing / Replacing the Battery**

This marker needs a good battery to operate. If your battery is low or dead install a new battery before installing the propane supply cylinder in **STEP 2**. To install the AAA battery:

- Do not pressurize a partially assembled paintball marker.
- Make sure marker is unloaded (see page 12).
- Install barrel sleeve (see instructions on page 2).
- Put trigger safety in Safe Mode (see instructions on page 4).
- Remove the 2 screws holding the left grip in place.
- To remove the battery, pull up on the free end of the ribbon positioned under the battery to lift it out.
- To install battery first lay ribbon across battery holder keeping loose end free. Next insert new AAA battery on top of ribbon and into the ignition module battery holder, keeping the positive (+) end towards the top of the marker.
- Replace left grip and secure with 2 screws to complete battery installation.

**STEP 2: Propane Supply Cylinder Installation**

- Do not pressurize a partially assembled paintball marker.
- First install barrel sleeve (see instructions on page 2).
- Next put trigger safety in Safe Mode (see instructions on page 4).
- Hold cylinder upright while attaching. Insert the cylinder valve end into the regulator and twist cylinder clockwise until it stops.
- Listen and smell for propane leaks, do not fire if leaking.

**STEP 3: Priming The Marker:**

After any tank installation, *before loading the marker with paintballs*, you must prime the marker. First remove the barrel sleeve and turn the safety off. NOTE: Sliding the Forearm Grip completely to the back position clears the exhaust from the combustion chamber and allows a paintball to load if there are paintballs in the hopper / sliding the forearm grip completely to the forward position fills the combustion chamber with air for next shot and chambers a paintball if there are paintballs in the hopper. It is important to make complete pump strokes in order for the marker to fire properly. Pump and fire the marker in a safe direction several times until it starts shooting. Reinstall barrel sleeve and put trigger safety in Safe Mode.

NOTE: Over time as the internal parts of the Regulator break-in or if the unit has been disassembled for service, the marker

Priming The Marker (continued from page 8)

may cease to fire during the priming procedure because the air/fuel mixture needs adjustment. To adjust the air/fuel mixture, follow the Regulator Adjustment instructions on page 14.

**STEP 4: Hopper Installation**

Barrel Sleeve must be installed (see page 2) and safety in Safe Mode (see page 4) before filling the hopper.

- Make sure that the feed elbow and hopper are clean and free of any sharp edges to keep paintballs feeding into the marker properly.
- Install the hopper neck into the feed elbow of your marker and tighten the hopper down with a 1/8" allen wrench.

NOTE: Do not overtighten or the elbow may break. With the barrel sleeve installed and safety in Safe Mode, you are now ready to load your hopper with paintballs. Fill hopper and only remove barrel sleeve and turn off the safety when ready to shoot.

**STEP 5: To Fire The Marker**

It is important to make complete pump strokes in order for the marker to fire properly. Sliding the Forearm Grip completely back and then sliding it completely forward = 1 Pump. Pump 1 time and pull the trigger to fire 1 shot. Do not pump more than 1 time for each shot which would cause the marker to load more than 1 paintball and could break a ball in the chamber. NOTE: It is normal for the marker to become very warm when shooting.

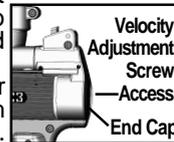
**STEP 6: Velocity Adjustment****WARNING**

**DO NOT TURN THE VELOCITY ADJUSTMENT SCREW OUT SO FAR THAT IT PUSHES AGAINST THE END CAP.**

Each time you play paintball, the velocity of your paintball marker should be checked with a chronograph, an instrument for measuring velocity, prior to playing paintball to verify that the marker's velocity is set below 300 feet per second or less if required by playing field.

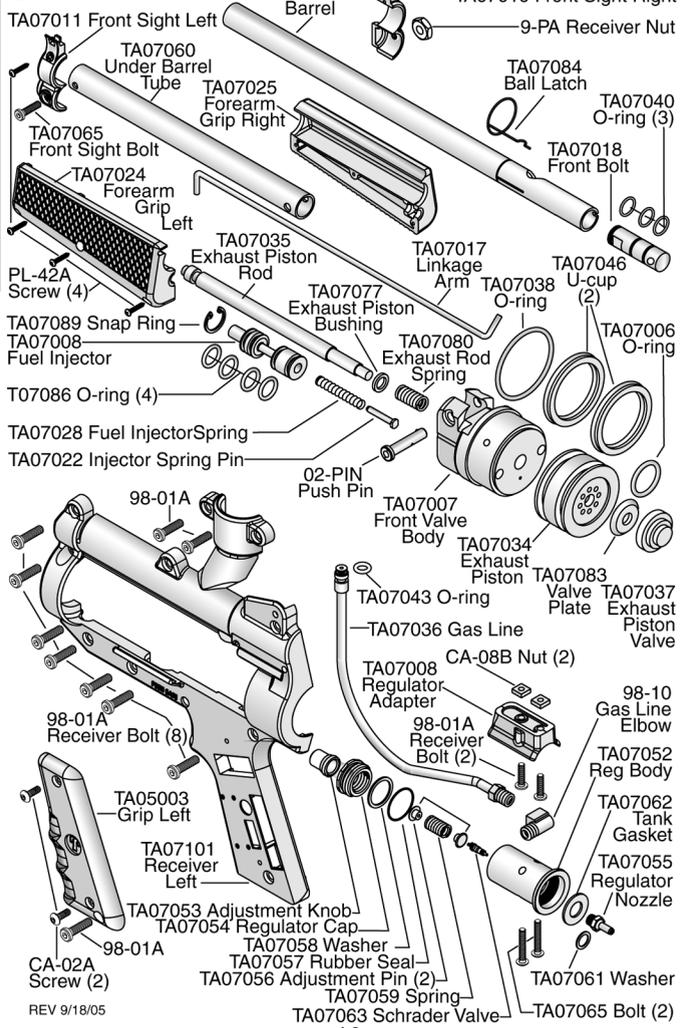
To adjust the velocity up, insert a large flat head screwdriver through the end cap and into the large velocity screw slot and turn it inward or clockwise.

To turn the velocity down, turn it out or counterclockwise - do not turn it out far enough that it pushes against the inside of the end cap.

**STEP 7: Rear Sight Adjustment**

If your paintball is hitting low, slide the rear sight back towards rear of marker. Do the opposite if paintball is hitting high.

# C3™ Parts List

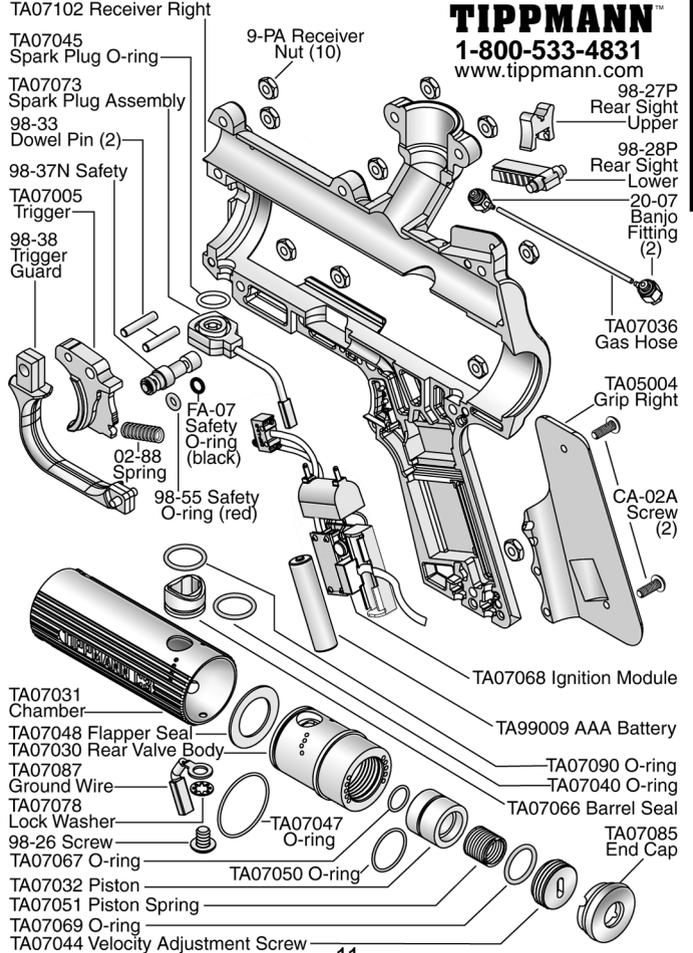


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## ⚠ WARNING

**DO NOT DISASSEMBLE THIS MARKER WHILE IT IS PRESSURIZED WITH PROPANE. DO NOT PRESSURIZE A PARTIALLY ASSEMBLED MARKER.**

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## Unloading Your Marker

Before storing or disassembling be sure to remove paintballs and propane supply.

- **To unload your marker:** remove or completely empty the hopper. Then, point your marker in a safe direction and fire several times to be sure there are no balls lodged in the chamber and / or barrel.
- **Propane Supply Cylinder Removal:** To remove a propane supply cylinder, turn the cylinder counterclockwise or out. This allows the propane supply pin valve to close so that no propane will enter the marker. After the cylinder is removed, point the marker in a safe direction then pump/fire several times to make sure there is no propane left in the marker.
- Install barrel sleeve (see page 2) and put trigger safety in Safe Mode (see instructions on page 4).

## Marker / Propane Cylinder Storage

Before storage, unload paintballs and remove propane supply (see above). Then install Barrel Sleeve (see page 2) and put your marker in Safe Mode (see page 4). You should store your marker in a dry area. Before storing your marker make sure that the marker is cleaned and oiled (see cleaning and maintenance below) to ensure optimum performance and long life. Store propane cylinder as outlined in Propane Cylinder Handling and Storage section on page 7.

When removing your marker out of storage, make sure Barrel Sleeve is installed (see page 2) and safety is in Safe Mode (see page 4).

## Marker Cleaning and Maintenance

To reduce the chance of accidental discharge: First follow unloading and propane supply removal instructions (above) and never disassemble a marker that is under pressure.

- Do not pressurize a partially assembled paintball marker.
- Do not disassemble a marker until it has cooled to room temperature as internal parts may be extremely hot.
- Follow warnings listed on the propane supply cylinder for handling and storage.
- Familiarize yourself with instructions listed on propane supply cylinder and review the Propane Cylinder Handling and Storage instructions on page 7.
- To clean the exterior of your paintball marker use a damp towel with water to wipe off paint, oil, and debris. We recommend using Tippmann™ marker oil or other premium

## Cleaning and Maintenance (continued from page 12)

gun oil to maintain your marker in good working condition. Re-oil when necessary.

- **Barrel Cleaning:** It is important to clean the barrel whenever you break a paintball. Residue in barrel can burn causing smoke, more ball breakage and poor performance. It is not necessary to remove the barrel from marker to clean it. To clean the barrel: use the special cleaning squeegee that came with your C3™ marker. Move forearm grip to the rear position. Press squeegee button to tilt squeegee flat, then while holding in flat position, insert squeegee completely into barrel and release button. Pull squeegee out of barrel to remove debris. Next insert opposite end of cleaning squeegee to swab the barrel. Repeat as necessary.
- **Spark Plug Cleaning:** If the spark plug becomes dirty or oily it may cause the marker to misfire and may cause the electronics to short out. To clean the Spark Plug:
  - 1) Follow the Unloading The Marker instructions on page 12.
  - 2) Follow the Propane Supply Cylinder Removal instructions on page 12.
  - 3) Follow the Disassembling the Marker instructions beginning on page 14.
  - 4) After you remove the Spark Plug, use a cloth to wipe it clean. Any time the receiver is disassembled clean the Spark Plug.
- **Rear Valve / Piston Cleaning:** It is important to periodically clean the Rear Valve and Piston to maintain marker performance. This cleaning can be performed without extensive disassembly of the marker.
  - 1) Complete the Unloading The Marker instructions on page 12.
  - 2) Complete the Propane Supply Cylinder Removal instructions on page 12.
  - 3) With steps 1 and 2 completed proceed as follows:
    - a) Carefully pull the End Cap from the end of the receiver.
    - b) Remove the Velocity Adjustment Screw by turning it counterclockwise with a large flat head screwdriver, then remove the spring and buffer o-ring.
    - c) Pull the piston out the back of the marker.
    - d) Clean the piston with WD-40 and wipe clean. Inspect the two piston o-rings for wear and replace if necessary.
    - e) Clean the Rear Valve internal surfaces with WD-40 and wipe clean.
    - f) Lubricate the Piston o-rings with Tippmann™ Marker oil or other premium marker oil and insert the Piston into the Rear Valve (closed end of piston goes in first).
    - g) Insert the spring and buffer o-ring.

**WARNING**

**FIRING YOUR MARKER WITHOUT THE VELOCITY SCREW INSTALLED CAN CAUSE THE PISTON TO BE EJECTED FROM THE REAR OF THE MARKER.**

h) Carefully screw the Velocity Screw into the Rear Valve until at least flush with the end of the Rear Valve body and then replace the End Cap. Cleaning is complete. You will need to adjust velocity as outlined on page 9.

**Regulator Adjustment:** Make sure there are no paintballs in your marker and hopper when you adjust the regulator.

- The regulator controls the air/fuel mixture and the marker will not fire if the mixture is too rich or too lean. It is set at the factory for best performance. This setting may need to be adjusted over time as the internal parts break-in or if the unit has been disassembled for service.

- The regulator adjustment knob is located at the front of the regulator body and is adjusted as follows:

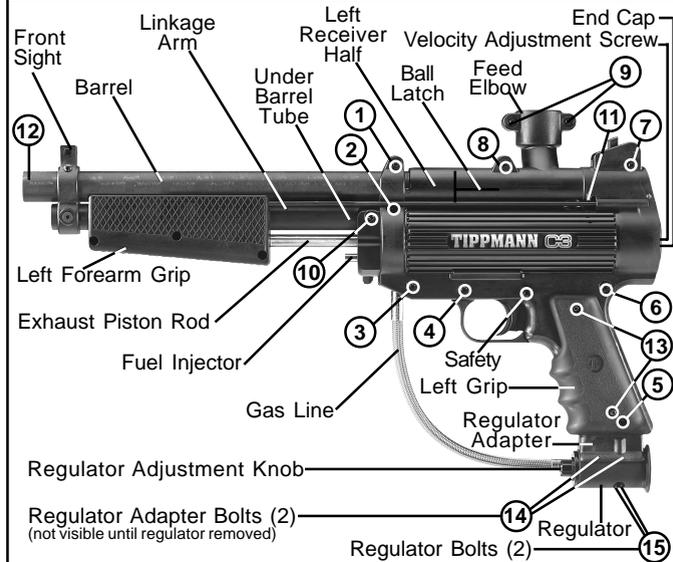
- 1) Turn the adjustment knob clockwise all the way with a 3/16" allen wrench to completely shut off the flow of gas.
- 2) Turn the adjustment knob 1/2 turn counterclockwise; pump the marker several times and attempt to fire in a safe direction. Repeat this process until the marker fires for the first time - then go 1/2 turn further. This setting should offer the best performance (The range between too rich and too lean is approximately one full turn - the ideal setting is half way between).

**DISASSEMBLING YOUR MARKER:**

Refer to schematic parts listing pages for additional part identification as necessary.

- 1) **Unload The Marker** (see instructions page 12).
- 2) **Remove Propane Supply Cylinder** (see instructions page 12).
- 3) **Barrel Removal:** NOTE: When reinstalling the barrel you will want to align it correctly with the feed elbow so the paintballs will load properly from the feed elbow into the barrel. Before removing the barrel and after completing Step 1) and 2) above, you can check what a proper alignment feels like by pumping the forearm grip back and then inserting your finger into the feed elbow to feel where the barrel hole and feeder hole fit together - when correctly aligned, this will be a smooth transition. During installation this is how it should feel.

- Loosen receiver bolt ①, remove push pin ⑩, and then slide front sight/under barrel tube as one piece out of the receiver.



- Slide barrel forward a little bit ⑫, until you can remove the Linkage Arm from the Rear Bolt in the back end of barrel ⑪. Remove Linkage Arm from forearm grip. Pull the barrel out of the receiver. Next remove the Front Bolt from the back of the barrel and clean barrel and Front Bolt with water and wipe dry. Inspect and oil front bolt o-rings (replace if necessary). Install front bolt back into barrel being careful that bolt end with hole for linkage arm goes in last and hole aligns with the slot on side of the barrel (see Barrel Insertion page 19).

You may reassemble the barrel at this time in the reverse order making sure that the ball hole lines up well with the feed elbow or continue with receiver disassembly.

**Receiver Disassembly:**

- Fuel injector removal:** Remove c-clip holding it inside of the front of Front Valve Body, remove the fuel injector, spring and spring pin and clean them. Clean, inspect and oil the 4 o-rings (replace if necessary). Put spring on pin and insert into fuel injector. Insert pin/spring end first into front valve body and secure with c-clip (see schematic page 10).

Receiver Disassembly (continued from page 15)

5) **Battery Removal:** Remove the 2 Left Grip screws (13), the Left Grip and pull up loose end of ribbon under the Battery to pop it out. 6) Pull the end cap out of the receiver.

7) Remove the Regulator - 2 bolts at (15).

8) Remove the Regulator Adapter - 2 bolts at (14).

9) Remove the 2 Banjo Fittings and Gas Hose as 1 piece from the right side of the marker. Clean and inspect the o-ring on each Banjo Fitting for wear and oil (replace if necessary).

10) Remove the 8 Receiver Bolts (1) (2) (3) (4) (5) (6) (7) (8), and the two Feeder Bolts (9), holding the receiver halves together.

11) Carefully lift the Left Receiver Half off of the marker. Trigger pins and electronics should all remain in Right Receiver Half. **IMPORTANT:** The top Barrel Seal O-ring fits onto top of barrel seal/chamber (as shown on next page). You will need to be sure the o-ring is positioned like this when you reinstall the barrel during reassembly.

12) Lift the left end of the Chamber just enough to remove the gas line (A) and then lift the Spark Plug out of slot (B) in the right receiver and unplug it (C) from the ignition module. Use a cloth to wipe the Spark Plug clean. Any time you have the receiver disassembled to this point, clean the Spark Plug.

NOTE: If you are disassembling marker just to clean the Spark Plug, it is not necessary to disassemble marker any further; install Spark Plug back into slot in right receiver half and plug back into ignition module. Skip to Step 23 and follow marker reassembly instructions.

### Chamber Removal And Disassembly

13) Carefully lift the Chamber (D) assembly enough to unplug the ground wire (E) from the ignition module (F) and then lift the Forearm Grip/Chamber assembly out of right receiver half.

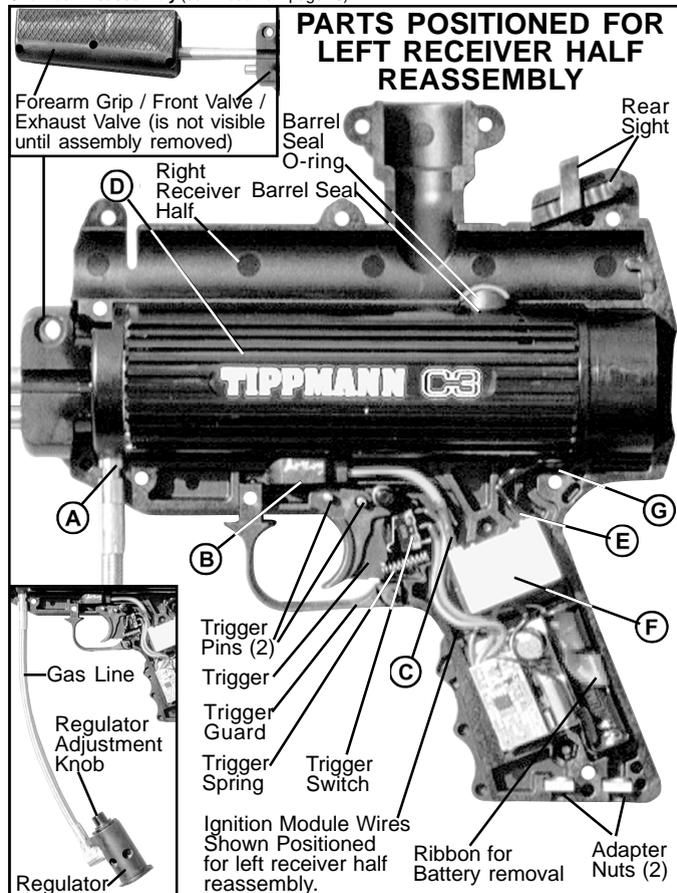
14) Remove the Ground Wire Connector (G) from the Chamber (1 bolt and lock washer).

15) Remove the barrel seal o-ring and then use a pair of pliers to carefully pull the barrel seal out of the chamber. Clean the barrel seal with WD-40 and wipe clean. Inspect o-rings for wear and replace if necessary.

16) Slide the Rear Valve out of the back end of the Chamber.

- Inspect and clean Flapper Seal and o-ring located on the front end of the Rear Valve and replace if necessary.
- Disassemble, clean and inspect the Rear Valve parts.
- Remove the Velocity Screw by turning it counterclockwise with

Chamber Disassembly (continued from page 16)



a large flat screwdriver, then remove the spring and buffer o-ring.

- Push the piston out the back of the rear valve body.
- Clean the Rear Valve internal surfaces with WD-40 & wipe clean.
- Clean the piston with WD-40 and wipe clean. Inspect the two piston o-rings for wear (replace if necessary) and lubricate with Tippmann™ marker oil.

- With Piston o-rings lubricated, insert piston into the Rear Valve (closed end of piston goes in first).
- Insert the spring, buffer o-ring and carefully screw the Velocity Adjustment Screw in until flush with end of the Rear Valve body.
- 17) Pull the Forearm Grip/Front Valve/Exhaust Valve Assembly from the Chamber.
- Clean the back face of the Front Valve Body with WD-40 and wipe clean. Clean and inspect the Big O-ring on back face of the Front Valve Body – replace if necessary.
- Clean the exhaust piston and u-cups. Inspect u-cups for wear (replace if necessary) and lubricate them first with a very light coat of white lithium grease, then with a very light coat of Tippmann™ marker oil on top of the grease. **NOTE:** Too much grease or oil can cause your spark plug to short out.

### ASSEMBLING THE INSPECTED, CLEANED AND LUBRICATED INTERNAL PARTS.

- 18) Slide the forearm grip/front valve body/exhaust valve assembly into front end of the chamber.
- 19) Insert Rear Valve into back end of the chamber and be sure to align hole in valve top with hole in chamber top.
- 20) Reconnect ground wire to chamber assembly with bolt and lockwasher.
- 21) Insert Barrel Seal (flat end first with o-ring in place) into chamber /rear valve– (make sure to turn barrel seal top so barrel will fit down into it when barrel is installed.)
- 22) Insert Chamber Assembly (rear valve end first) – into right receiver half.
- 23) Place Spark Plug back into slot in right receiver half.
- 24) Plug chamber ground wire (E) and Spark Plug wire (C) onto the ignition module.
- 25) Lift the left end of the chamber enough to insert the gas line into the slot (A) below the front valve body, then lower the chamber making sure that the lip on the receiver engages the lower fin on the chamber.
- 26) It is easiest to insert the barrel and barrel seal o-ring into the right receiver half at this time so that the barrel holds the barrel seal o-ring properly in place. See illustration on next page.
  - a) Carefully position o-ring on top of the barrel seal.
  - b) Make sure front bolt is properly aligned in barrel with the hole for the linkage arm visible in the slot on the side of the barrel.
  - c) Insert the barrel and then carefully work the barrel into the receiver (by turning and sliding it) until the barrel bottom holds the barrel seal o-ring in place. This may take a few tries and if you damage the o-ring replace it.



- 27) Make sure all parts are in place before installing the left receiver half (see page 17).

### LEFT RECEIVER HALF INSTALLATION:

- 28) Place left receiver half onto right half making sure that the lip on the receiver engages the lower fin on the chamber.
- 29) Screw in bottom 4 receiver bolts to hold in place (3) (4) (5) (6).
- 30) Carefully work barrel out until you can see the hole in the Front Bolt for the linkage arm (11). Slide the linkage arm into the forearm grip with end angled down and insert into slot inside the left grip half and then insert other end into hole in Front bolt (11).
- 31) Carefully work the barrel completely in to the back of the receiver. Check to be sure that the barrel is correctly aligned with the feeder by sliding the forearm grip back and then inserting your finger into the feed elbow and feeling where barrel hole and feeder hole fit together. When correctly aligned, this will be a smooth transition between the receiver and barrel.
- 32) With barrel/feeder holes correctly aligned, tighten the 4 remaining receiver bolts (1) (2) (7) (8), and the 2 feed elbow bolts (9).
- 33) Insert the Front Sight/Under Barrel Tube assembly through the front grip and into the receiver until you can insert the Push Pin (10) to attach it.
- 34) Reinstall battery: Lay the battery removal ribbon across the module battery compartment keeping its loose end free (to pull and lift battery out at next replacement). Next insert the battery into module on top of ribbon, making sure to keep the positive(+) end towards top of marker. Reattach left side grip with 2 grip screws (13).
- 35) Attach Regulator Adapter with 2 bolts (14).
- 36) Attach Regulator with 2 bolts (15).
- 37) Turn marker over and attach the 2 banjo fittings of the gas hose assembly into the right receiver half.
- 38) Insert End Cap into the back end of the receiver. Marker is now reassembled. You will need to adjust the velocity before using.

## TROUBLESHOOTING

### If your marker will not fire:

- Check to be sure the safety is in the FIRE position. See safety instructions on page 4.
- Check to be sure your propane tank is not empty.
- Battery may be bad. See battery replacement on page 8.
- The Spark Plug may be dirty and need to be cleaned. See Spark Plug Cleaning and Maintenance on page 13.
- Fuel Air Mixture may need adjustment. See Regulator Adjustment on page 14.
- Internal wire(s) may be disconnected or damaged. Follow Marker disassembly instructions beginning on page 14, to disassemble and inspect internal wires and connections.

### If your marker misfires:

- The Spark Plug may be dirty and need to be cleaned.  
-See Spark Plug Cleaning and Maintenance on page 13.

### If the electronics short out:

- The Spark Plug may be dirty and need to be cleaned.  
-See Spark Plug Cleaning and Maintenance on page 13.
- Internal wire(s) may be disconnected or damaged.  
-Follow Marker disassembly instructions beginning on page 14, to disassemble and inspect internal wires and connections.

### If you smell propane when using your marker:

- Other than briefly when attaching or detaching the propane cylinder, if you still smell propane, do not fire the marker - remove the propane cylinder and seek qualified repair from Tippmann™ or your local paintball dealer.

## Specifications

Model .....	Tippmann™ C3™
Caliber .....	.68
Action .....	Slide Action Pump
Power/Propane Supply .....	Disposable Propane Cylinder
Standard Barrel Length .....	13"
Overall Length (with standard barrel & no tank) .....	17.6"
Weight (without tank) .....	3.75 lbs.
Effective Range .....	150+ ft.
Velocity ... Adjustable: always measure your marker's velocity before playing paintball and never shoot at velocities in excess of 300 feet per second (see Velocity Adjustment page 9).	

## Tippmann™ C3™ - Frequently Asked Questions

### 1. Why should I buy the new C3™ Marker?

Convenience! With over 50,000 shots per 16 ounce tank and the accessibility of propane cylinders at many retail locations, paintball players can spend more time playing paintball and less time trying to fill or find a place to fill their CO2 or Nitrogen tank.

### 2. How does the performance compare to CO2 or Nitrogen / Compressed Air?

Propane has the same velocity range of CO2, Nitrogen or Compressed Air but it is not affected by temperature changes and it maintains a consistent velocity for every shot.

### 3. Can I adjust the ball velocity with a C3™ Marker?

Yes. The C3™ Marker has a velocity range similar to any standard marker. The velocity can be adjusted from approximately 240 to 310 FPS at the back of the C3™ Marker using a large flat head screwdriver.

### 4. Is there really much of a savings using Propane vs. CO2 or Nitrogen?

Yes. It costs under \$8 for a disposable 16.4-ounce propane tank, versus \$30 to \$35 for a 20-ounce CO2 tank. Plus you have to fill your CO2 tank after every 1,000 shots! To fill your CO2 tank for 50,000 shots you would have to spend an additional \$250!

### 5. Is propane safe to use?

Yes, like any fuel source when handled according to the appropriate safety instructions. Propane is actually a low pressure gas that uses only a small amount of fuel in an internal combustion chamber. The propane is never actually released into the air by the marker and is very safe to use.

### 6. I noticed that as I was tightening the Propane to the marker, I detected the smell of Propane. Is this normal?

Yes. As the tank is being threaded into the regulator, a small amount of gas may escape. The Propane smell will go away after a few seconds.

### 7. Where else is propane used?

Propane is used safely in dozens of consumer products like nail guns, power tools, household appliances, outdoor lighting, camping equipment and cars. When used in these types of items or in an internal combustion chamber like the C3™, propane is a convenient and effective fuel.

### 8. What happens if there is a leak in a connection on the marker?

Simply unhook the propane cylinder from the marker. Contact

your local dealer or Tippmann™ Service and we can fix your marker. Assuming there is no issue with the propane tank, the leak is handled the same way as a standard CO2 leak.

**9. When using the marker I noticed the marker felt warm. Is this normal?**

It is normal for the marker to become very warm when shooting.

**10. I see Tippmann™ has its own propane fuel; can I use any standard propane cylinder?**

To make it easier for the paintball dealer and consumer, we have our own Tippmann™ branded propane cylinders that we recommend for use with the C3™ Marker. However, any standard disposable propane cylinder will fit on the C3™.

**11. Why did Tippmann™ launch this as a pump action marker?**

This is a very new technology and the pump-action system worked much better with this type of fuel system. With a pump-action system, this marker will open the game to new players who want a quality marker and who do not want to shoot too much paint at one time or to the serious scenario players who want to use the C3™ as a stock marker to fine tune their strategies in scenario style play.

**12. What are the plans for a semi automatic?**

We are planning many variations and upgrades to the C3™ Marker but no final time schedule has been developed.

**13. What accessories can I add to this marker?**

At this time there are no accessories to add to this marker. Simply add the propane fuel source and a standard ball hopper and you are ready to go.

**14. What happens if I pump the marker more than once, will I get more power?**

No. Extra pumps do not add any extra power but will add a second ball in the barrel chamber. You want to only pump one time to avoid getting two or more balls lodged in the barrel.

**15. Is there any warranty and who does the repairs?**

The C3™ is covered by the standard 1-year Tippmann™ warranty. Many of our Tech Centers will be trained to handle the repairs of the C3™ or any other Tippmann™ marker.

**16. Do any fields offer pump-action only areas or tournaments?**

More fields are developing a pump-action or stock area at their facilities. Many players are now developing groups to play stock games to work on their scenario strategies or focus on improving their aim and accuracy.

## WARRANTY AND REPAIR POLICY

Tippmann Sports, LLC warrants that this product is found free from defects in materials and workmanship for a period of 1 year from the original date of purchase by the initial owner/purchaser. This warranty does not apply to defects discovered after purchase which were caused by the unauthorized modifications and alterations of our product. Tippmann Sports, LLC will repair or replace, without charge, any of its markers that have failed through defect in material or workmanship. Tippmann is dedicated to providing you with the ultimate paintball marker and the quality support necessary for satisfactory play.

## WARRANTY OR REPAIR PROCEDURE

If you should encounter any problems with your marker and you have aftermarket parts on your marker, please test it with the original stock parts before sending it in.

Always unload and remove propane supply before shipping a marker (see page 12). Do not ship your propane supply tank.

For warranty and non-warranty repair:

1. Ship or deliver your product(s) to:  
Tippmann Sports, LLC  
2955 Adams Center Road  
Fort Wayne, IN 46803
2. Postage or delivery charges must be prepaid.
3. Include a brief statement regarding the requested repair, your name, return address and telephone number where you can be reached during normal business hours, if possible.

Our policy is to complete the necessary repair work within 24 hours and return it to you via regular ground UPS. If you wish to have it returned using a faster service, you can request for NEXT DAY AIR UPS OR SECOND DAY AIR UPS. You will be charged for this service and must include your credit card number with the expiration date. Your card will be charged the difference in additional cost over regular ground shipping service.

## WARRANTY REGISTRATION

Register your marker either:

1. On line at [www.tippmann.com](http://www.tippmann.com).
2. Complete attached registration card and mail to the above address.

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**TIPPMANN**<sup>TM</sup>  
2955 ADAMS CENTER ROAD  
FT. WAYNE, IN 46803 USA  
**C3**<sup>TM</sup>



Warranty Registration online at [www.tippmann.com](http://www.tippmann.com)  
or complete this warranty card and mail to Tippmann<sup>TM</sup>.

Serial Number:

#

Purchased from

Date

City

State

Zip

Country

Your Name (print)

Age

Male

Female

Address

City

State

Zip

Country

Phone #

E-mail

Inside  
Back  
Cover  
Blank



**TIPPMANN™**

2955 ADAMS CENTER ROAD  
FT. WAYNE, IN 46803 USA

**C3™**

L'inscription de Garantie sur l'internet à [www.tippmann.com](http://www.tippmann.com) ou  
complétez la carte de d'inscription et l'envoyez à Tippmann™.

**Registro de Garantia via On line a [www.tippmann.com](http://www.tippmann.com)**  
o complete esta tarjeta de garantia y envandola por correo regular a Tippmann™.

Numéro Sériail: \_\_\_\_\_ # \_\_\_\_\_  
Número de Serie: \_\_\_\_\_

Acheté du \_\_\_\_\_ Date  
Nombre comprador \_\_\_\_\_ Decha

Ville \_\_\_\_\_ État \_\_\_\_\_ Code Postale \_\_\_\_\_  
Ciudad \_\_\_\_\_ Estado \_\_\_\_\_ Código Postal \_\_\_\_\_

Pays \_\_\_\_\_

Votre nom \_\_\_\_\_ Âge \_\_\_\_\_  Male  Femelle  
Nombre (lettra de molde) \_\_\_\_\_ Edad \_\_\_\_\_ Hombre | Mujer

Adresse \_\_\_\_\_  
Dirección \_\_\_\_\_

Ville \_\_\_\_\_ État \_\_\_\_\_ Code Postale \_\_\_\_\_  
Ciudad \_\_\_\_\_ Estado \_\_\_\_\_ Código Postal \_\_\_\_\_

Pays \_\_\_\_\_ No. de téléphone \_\_\_\_\_  
Pais \_\_\_\_\_ Teléfono \_\_\_\_\_

E-mail \_\_\_\_\_