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Please visit www.rap4.com/operation for more information and service diagram

1) Rules For Safe Handling

- · Always wear proper paintball eye protection and never remove them when operating the marker or, when near a playing area.
- · Treat every paintball marker as if it were loaded.
- Never point a paintball marker at anyone not wearing the proper paintball eye protection.
- Always use a barrel blocking device as well as the safety when not playing.
- Never look down the barrel of a paintball marker. Accidental discharge into the eyes may cause permanent injury or death.
- · Always measure the shooting velocity (speed) of the marker before playing paintball. NOTE: Paintball velocity can be measured at most regulated paintball fields with a chronograph.
- · Never fire your marker with the velocity exceeding 300 feet per second.
- Only play in a designated paintball facility.
- · Avoid shooting an opponent at point blank range (20 feet or less).
- Paintballs can leave stain, so never fire your marker at property belonging to others.
- · Do not shoot at fragile objects (i.e. windows, lights, etc.).
- Pressurize and load the marker only when the marker will be immediately used. Unload and remove the gas cylinder immediately after use for safe storage.
- Always remove gas source before disassembly.
- Keep exposed skin away from escaping gas when installing or removing cylinder. All compressed gases are very cold and can cause frostbite under certain conditions.
- Do not disassemble or service this marker while it is pressurized with gas.
- · Store the paintball marker unloaded and degassed in a safe place.
- Follow warnings listed on gas source for handling and storage.
 Use only .68 caliber paintballs. Never load or fire any foreign objects.
- Dress appropriately and avoid exposing any skin when playing the game of paintball. A light layer of clothing will absorb some of the impact and protect you from the contact of projectiles.
- Never consume alcoholic beverages before and/or during the use of this marker. Handling paintball markers while under the influence or drugs or alcohol is a criminal disregard for public safety.

2) Operating Your Marker

Always follow the safety rules when operating the marker. Misuse or abuse of the marker can cause serious injury or death.

THIS MARKER OPERATES ONLY ON CO2 OR COMPRESSED AIR. DO NOT USE ANY OTHER GAS TO POWER THIS MARKER. DOING SO MAY MAY DAMAGE THE MARKER, CAUSE INJURY OR DEATH.

- 1. Put barrel blocking device over the tip of the barrel.
- 2. Put the marker on safe by pushing the safety button to the right.
- 3. Put goggles on. Attach gas cylinder to the air source adaptor located at the rear of the marker.
- 4. Attach hopper to feed port or magazine to magazine well and press it in firmly.
- 5. Remove barrel blocking device.
- Take the marker off safe by pressing the safety button to the left.
- 7. Pull back the charging handle.
- 8. Check the velocity of the marker with a chronograph to verity that the velocity does not exceed 300fps or the set field limit.

Adjusting velocity

- Insert the Allen Key to part #37 set screw.
- Rotate the Allen Key clockwise to increase velocity. Rotate counter clockwise to decrease velocity.
- 3. When decreasing the velocity, it may be necessary to fire several shots before the velocity drops.

Cleaning the barrel

- 1. Remove the magazine from the marker.
- Insert a flexible squeegee into the magazine feed port.
- 3. Pull the squeegee through the barrel and pull it out of the barrel
- 4. If you don't have a flexible squeegee you will need to remove the barrel for cleaning. See "removing barrel" for direction.

3) Disassembling Your Marker

A. Removing Bolt and Hammer to Oil and Service your marker

- 1. Remove two top screws #34 and one bottom screw #34.
- 2. Pull part #35 back and detach from marker body.
- 3. Remove part #39, #40 and #41.
- 4. Turn part #31 and #38 counter clockwise and remove both parts.
- 5. Remove screw part #21, #23 and remove two screws #44.
- 6. Slide part #19, #25, #27, and #42 back and remove.
- 7. Clean bolt #27, hammer #42, chamber and any excess oil.

Reassembling

- 1. Align part #19, #25, #27, and #42 and slide into marker body.
- 2. Use a long screw driver to push in part #42 and, at the same time, pulling the trigger.
- 3. Reassemble the above parts in reverse order from section A.

B. Removing Barrel

- 1. Loosen screw #6 located at the rear barrel ring #12 of the barrel assembly.
- 2. Turn barrel assembly counter clockwise and remove.

C. Changing Feed Adaptor

- 1. Remove barrel assembly by following the steps above.
- 2. Remove 2 screws #51 and two screws #6 from the magazine receiver assembly part #5.
- 3. Remove magazine receiver assembly.
- 4. Remove 2 screws #44.
- 5. Remove adaptor, replace and reassemble.

4) Care and Maintenance

Lubricating:

Only use oil or lubricant specifically designed for paintball markers. Other oil/lubricant could freeze upon contact with CO2 or may contain solvents which could damage your seal and o-rings. To lubricate the bolt (part #27) and hammer (part #42), see the instructions under Disassembling Your Marker. It is recommended to lubricate all other internal parts when you are ready to play. Lubricate your marker at a safe location where you can fire your marker. Put two drops of oil in the air source adapter (part #35) before attaching a gas cylinder. Once the gas cylinder is attached, fire the marker several times. This will distribute the oil through the valve, seals and o-rings. You should clean the barrel after playing to remove any excess oil. Oil in the barrel will cause erratic ball flight.

Cleaning:

It is important that you clean your marker every time you play. See the instructions under Disassembling Your Marker. Any paint around the feed port, barrel and main body should be wiped off with a damp paper towel or cloth.

Maintenance:

Check and make sure all marker screws are secure and tight before you use the marker.

5) Troubleshooting

A. Air leaking out the barrel

- 1. Replace two o-rings part #8 at part #13.
- 2. Replace seal part #11.

B. Marker needs to be cocked after each shot or shooting at low velocity

- 1. Check air supply pressure make sure air supply is at least 750 pound per square inch.
- 2. Check velocity adjustment screw, make sure it is correctly adjusted.
- 3. Clean and lubricate the bolt, hammer and o-ring part #8.
- 4. Replace part #40, if needed, after the above are checked.
- 5. Replace part #11, if needed, after the above are checked.

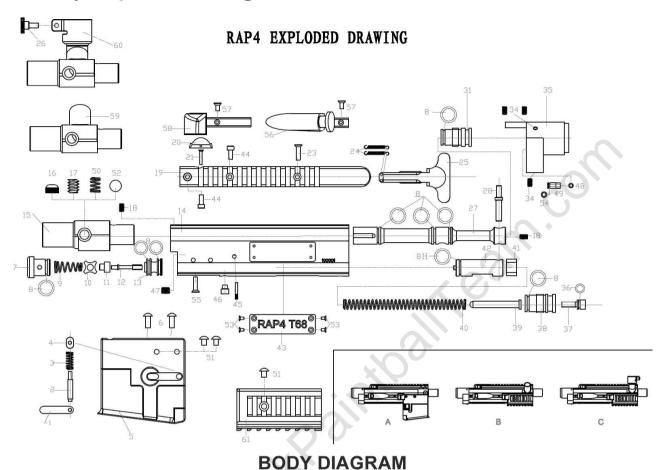
C. Multiple balls shooting out the barrel

- 1. Remove part #16.
- 2. Remove part #50.

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- 3. Stretch out part #50 1/5 inches longer from the original spring length.
- 4. If you are unable to remove part #50, you will need to replace the entire ball detent assembly.

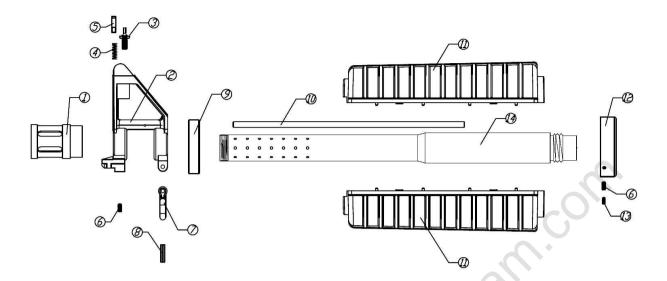
6) Exploded Diagram



- 1. Magazine hook
- 2. Magazine pin
- 3. Magazine spring
- 4. Magazine release
- 5. Magazine housing
- 6. Magazine R screws
- 7. Air chamber valve
- 8. O-ring
- 9. Air chamber spring
- 10. Air chamber guide
- 11. Air chamber seal
- 12. Air chamber pin
- 13. Air chamber housing
- 14. Main body
- 15. Magazine feed adaptor
- 16. Ball detent cover
- 17. Ball detent housing
- 18. Secure screw
- 19. Flat top rail
- 20. Feed cover

- 21. Feed cover screw
- 22. Not use for this model
- 23. Flat top rail B screw
- 24. Charging handle spring
- 25. Charging handle
- 26. Vertical feed screw
- 27. Main bolt
- 28. Main bolt pin
- 29. Not use for this model
- 30. Not use for this model
- 31. Bolt cover
- 32. Not use for this model
- 33. Not use for this model
- 34. Secure screw
- 35. Flexi air adaptor
- 36. Velocity adjusting O-ring
- 37. Velocity adjusting screw
- 38. Hammer cover
- 39. Velocity spring guide
- 40. Velocity spring

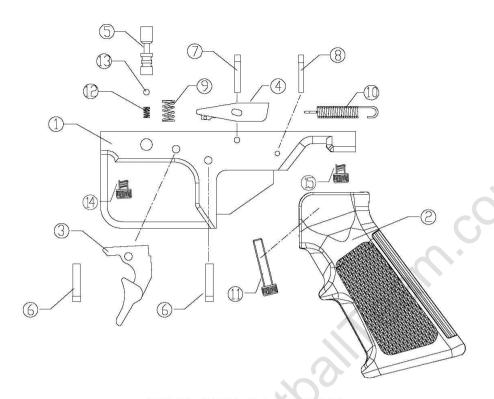
- 41. Hammer dampener
- 42. Hammer
- 43. Logo plate
- 44. Flat top rail a screw
- 45. Main body ping
- 46. Main screw
- 47. Secure screw
- 48. O-ring
- 49. Flexi air line
- 50. Ball detent spring
- 51. Magazine L screws
- 52. Ball detent ball
- 53. Plate screw
- 54. Flexi air O-ring
- 55. Body screw
- 56. Body cover B
- 57. Body cover screw
- 58. Body cover A
- 59. 45 degree feed adaptor
- 60. Vertical feed adaptor
- 61. Body rail



BARREL DIAGRAM

- 1. Muzzle
- 2. Front sight
- 3. Sight adjustment
- 4. Sight adjustment spring
- 5. Sight rod
- 6. Front sight secure screw
- 7. Sling ring
- 8. Sling ring pin
- 9. Front cap
- 10. Stabilizing bar
- 11. Hand guard
- 12. Rear cap
- 13. Cap secure screw
- 14. Barrel

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TRIGGER DIAGRAM

- 1. Trigger frame.
- 2. Grip
- 3. Trigger
- 4. Sear
- 5. Safety switch
- 6. Trigger frame pin
- 7. Sear pin
- 8. Spring pin
- 9. Trigger spring
- 10. Sear spring
- 11. Frame pin

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- 12. Safety switch spring
- 13. Safety switch detent
- 14. Front Screw
- 15. Rear Screw

Warranty Statement:

RAP4 warranties to the original purchaser that this product is free from defects in material and workmanship under normal use and service for a period of 5 years from the original date of purchase by the initial purchaser.

For warranty to be affective, customer must return the RAP4 warranty registration card, along with a copy of the purchase receipt, within fifteen days of purchase. RAP4 agrees to repair or replace (at its discretion) any product within a reasonable period of time. This warranty does not cover o-rings, scratches, nicks, normal wear and tear of parts, any modifications or normal fading of anodizing or damage caused by dropping or hitting of products. This warranty shall not apply if it is shown by RAP4 that the consumer caused the defect or malfunction because of misuse. This warranty only covers original factory parts. Any modifications or tampering of original factory parts will not be covered by this warranty. Any damage caused by water will not be covered by this warranty work can only be conducted by RAP4 technicians or RAP4 authorized technicians.

If product needs repair please contact RAP4 at 408-434-0434 or email rap4admin@rap4.com for an RMA number to have your product service.

REGISTRATION:

Please complete and return this form, along with a copy of your purchase receipt, within 15 days of purchase so that we may validate your 5 year limited warranty.

RAP4 USA 2215 Ringwood Ave San Jose, CA 95131

MODEL NUMBER:			
DATE OF PURCHASE: DD PURCHASED FROM:	_ MM	YY	
PURCHASED FROM.			
NAME:ADDRESS:			
PHONE NUMBER:EMAIL ADDRRESS:			