

#### **IMPORTANT**

- Firing velocity may vary according to altitude and climate conditions
- BEFORE using your marker in play, you must always first perform a "SAFE VELOCITY TEST". This can only be accomplished by using a testing device called a "Velocity Chronograph" and can be performed by the dealership where you purchased this product or at a local paintball playing field.
- Note: This product is intended to be used at a velocity no greater than 300 feet per second (FPS).
- Recommended velocity is 280 FPS or less.
- This product is NOT intended to be used at any distance less than 25 feet.
- This paintball marker may have excess gas after removal of the tank. Please remove all paintballs and discharge the remaining gas safely

#### **CO2/HP AIR TANK WARNING**

#### **⚠ WARNING**

- VALVES MUST BE INSTALLED OR REMOVED ONLY BY QUALIFIED PERSONNEL
- BOTTLE MUST BE RETESTED SEE CO2/HP TANK LABEL FOR RETEST DATE
- Improper use, filling, storage or disposal of this cylinder may result in
- death, personal injury and property damage. This cylinder must be filled only by properly Trained personnel in
- accordance with CGA Pamphlets P.1 and G-6.3 available from the Compressed Gas Association WWW.CGANET.COM
- Do not over pressurize. Do not expose pressurized cylinder to temperatures in excess of 130 degrees F
- Do not expose cylinder to corrosive materials and do not clean with caustic cleaners.
- · Do not alter this cylinder in any way.
- Cylinders heated to a temperature of 250 degrees F or more must be condemned or requalified in accordance with test defined in CFR-49.
- Keep cylinder out of reach of childre
- · The valve should NEVER be detached from the canister. Should this
- occur, please seek assistance from a trained airsmith immediately. · This tank is intended for paintball use only.

#### SPYDER RODEO

OF FEET HODES		
	ITEM#	Name of Parts
	01	Spyder Barrel Plug
	2602	12" Barrel (Silver)
	03	Ball Stopper
	2604C	Mini Detent Cover (camo)
	2604G	Mini Detent Cover (green)
	04GA	Mini Detent Cover (black)
	05B	M4 x 6 Screw (silver)
	2604	Direct Feed (silver)
	2606B	Receiver (black)
	2606C	Receiver (camo)
	2606G	Receiver (green)
	2608B	Vertical Adapter with Gauge (black
	2608C	Vertical Adapter with Gauge (came
	2608G	Vertical Adapter with Gauge (green
	2609LB	Low Prossure Chamber (black)

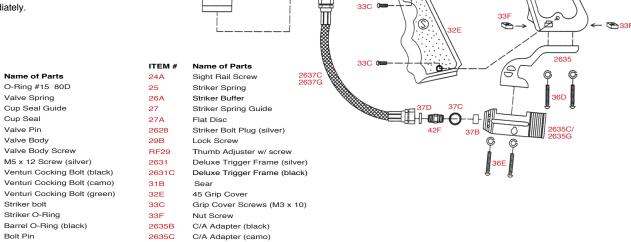
2608LC Low Pressure Chamber (camo)

2608LG Low Pressure Chamber (green)

Regulator Lock Screw

O-Ring #15 80D Valve Spring Cup Seal Guide Cup Seal Valve Pin Valve Body Screw M5 x 12 Screw (silver) Venturi Cocking Bolt (black) Venturi Cocking Bolt (camo Venturi Cocking Bolt (green) Striker O-Rina Barrel O-Ring (black) Bolt Screw

Quick Disconnect Pir



C/A Adapter (green)

Deluxe Drop Forward (silver)

Regulator Adjust Screw

(1)

Disconnect O-Ring #011 (Black) Disconnect Hose (black) Disconnect Hose (camo) Disconnect Hose (green Expansion Chamber (black) Expansion Chamber (camo) Expansion Chamber (green) Sight Rail w/Beaver Tail (silver) Trigger Roll Pin (Large) Secondary Sear Roll Pin

Name of Parts

Filter O-Ring

Plastic Washer

Spare Parts Kit

Safety Button Set

M8 x M8 Adapter

Ball Bearing & Spring

Sear Roll Pin (Medium

Double Trigger (black)

Air Filter

5/32" x 5/8" Screv

5/32" x 7/8" Screw

KINGMAN Warranty 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 ONE YEAR LIMITED WARRANTY. Mail to: Kingman Group 14010 Live Oak Avenue Baldwin Park, CA 91706 U.S.A. Telephone ( ) Address Zip Country State E-mail address Occupation Your age Product name and model What other brand(s) of markers do you own? Why did you purchase this Kingman marker? Avg # of times you play paintball per month What is the next paintball product you intend to buy? What are your hobbies (other than paintball)? What are some magazines you like to read? Have you purchased products from the Internet within the last 6 months? Comments/Suggestions

### **WARRANTY STATEMENT**

Kingman warranties to the original customer purchaser that this product is free from defects in material and workmanship under normal use and service for a period of 12 months from the original date of purchase by the initial owner/purchaser. For warranty to be effective, customer must return the enclosed warranty registration card, along with a copy of the purchase receipt, within fifteen days of purchase. Kingman 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 Kingman 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. Warranty work can only be conducted by Kingman technician or Kingman authorized technicians. If product needs repair, package it carefully and send together with your name, address, phone number and a brief description of the malfunction to:



14010 Live Oak Avenue, Baldwin Park, CA 91706 Telephone: 626.430.2300 Fax: 626.851.8530 Website: www.Kingman.com

## **TROUBLESHOOTING**

ONE OR MORE OF THE FOLLOWING MAY CAUSE RECOCKING RELATED PROBLEMS:

- a. The pressure in the tank is too low or too high.
- b. Need lubrication. (See OPERATION GUIDE in P4)
- c. #19A (striker o-ring) is damaged. Replace with new Kingman or Kingman-approved o-ring. (Note: the #19A O-ring cannot be substituted by a tank o-ring or a #9 o-ring).
- d. Need to clean barrel and upper chamber or the receiver.
- e. Paintball may be defective (i.e. expired, change shape)
- f. #9 (bolt o-ring) is damaged or the o-ring has expanded or swelled. Replace with a
- g. After ball breaks, remove all parts from UPPER chamber of receiver, wipe parts clean, and reassemble parts into receiver. Also make sure to clean barrel with squeegee

### **HELPFUL HINTS**

- Always remove air tank before any disassembly of your marker. DO NOT remove #14 (valve body) unless specific valve body repairs are needed. If needed, remove valve body with a long, soft-tipped object such as the eraser end of a pencil, DO NOT remove the valve body with a screwdriver as it will damage the valve body and cause air leaks. (Note: #15 screw must be removed prior to taking out the valve body).
- Air leaks are usually cause by a damaged valve body or damaged cup seal (#12). Replace with new valve body and/or cup seal if necessary.
- To assure marker is assembled properly, follow the schematic drawing or place parts in order during disassembly. Parts assembled backwards or placed in the wrong order will cause marker to malfunction.

### **REGULATOR OPERATION GUIDE**

THIS REGULATOR IS TO BE USED WITH CO2 POWERED OR COMPRESSED AIR.

- 1. Cock the Marker
- 3. Put the allen wrench into the Regulator Adjust Screw (#35E). Turn counter-clockwise until pressure needle shows the PSI increasing. To achieve better gas efficiency, it is recommended that the pressure be set at 700 to 800 PSI. NOTE: This adjusting screw can come completely out, which does not damage the regulator, but the PSI will be at the maximum pressure.
- 4. To lower the pressure in the regulator:
- a. Disconnect the tank from the marker. CAUTION: excess gas may remain in the marker even after the air tank is removed. Please discharge the remaining gas safely.
- b. Put the allen wrench into the Regulator Adjust Screw (#35E). Turn the screw clockwise until the
- c. Screw the air tank onto the marker. Adjust the pressure by following step 3 above.
- 5. NEVER disassemble the regulator while under pressure. Any disassembly of the regulator will void
- 6. After setting the regulator pressure at 700 to 800 PSI, chronograph the marker and adjust the velocity to the appropriate level by turning the Velocity Adjust Screw (#RF29) clockwise (increase velocity) or counter-clockwise (decrease velocity)
- 7. NEVER use the gauge as a something to hold on to while screwing on or taking off the air tank.
- 8. NEVER apply oil into the regulator.

# TROUBLESHOOTING THE REGULATOR

If the CO2 tank is screwed into the marker yet there is no gas going through marker:

- 1. Make sure CO2 tank is full.
- 2. Make sure marker is cocked.
- 3. Check the regulator pressure gauge (recommended at 700 to 800 PSI) SEE Regulator Operation Guide.

## **SPYDER RODEO OPERATION GUIDE:**

- 1. To put the marker on "SAFE", push the safety from the "PUSH SAFE" side of the trigger frame. To disengage the safety, point the marker in safe direction, push in the safety from the "PUSH FIRE" side of the trigger frame.
- 2. Cock the marker by pulling the Cocking Bolt (#2617C / #2617G) rearward until it latches. Caution: if you let go before it latches, your marker may fire.
- 3. Tighten the air tank until it is snug. If a leak occurs between the air tank and the C/A Adapter, replace the tank o-ring
- 4. Install a 7/8" elbow with loader into the vertical feed. Fill the loader with .68 caliber paintballs only.
- 5. With the safety off, fire the marker by pulling the trigger.
- 6. Only use lubrication specifically designed for paintball markers. To lubricate your marker, you will need to disassemble your marker (please note how parts are removed from marker as this will ease reassembly). Remove the Disconnect Lock Pin (#23C) and the Disconnect Pin (#23B). Hold down the Striker Plug (#2628) and Thumb Adjuster (#RE29), as internal parts may be spring-loaded. As you pull the cocking knob out of the receiver, the Cocking Bolt (#2617C / #2617G) and Striker (#18B) will also be removed.
- 7. Lubricate o-rings #9 and #19A with a few drops of paintball oil only.
- 8. Reassemble parts back into the marker. Note: when putting the Cocking Bolt and Striker back into the marker, you will need to apply pressure behind the bolt while pulling the trigger at the same time. This will allow the Bolt and Striker to be properly installed back into the receiver.
- 9. When you are finished shooting the marker, first, unload the marker of all paintballs. Note: there may be a ball in the receiver; take a couple of shots in a safe direction to make sure that the barrel and receiver are empty. Second, put the barrel plug into the barrel. Put the safety on and slowly unscrew the air source tank. Caution: do not unscrew the tank valve from the tank. Doing so may cause serious injury or death.
- 10. This marker is equipped with a regulator. Excess gas may remain in the marker even after the tank is removed. Please discharge the remaining gas safely. Note: always remove all paintballs from marker before discharging the remaining gas.