



SCAN THIS CODE TO LEARN MORE ABOUT THE VALKEN RM-1

valken



OWNERS MANUAL



LIMITED WARRANTY

Valken Paintball guarantees the RM-1 against defects in material and/or workmanship of this marker for twelve (12) months from the original date of purchase by the original retail purchaser. To activate your warranty, fill out the warranty card on the back and mail it along with a copy of the original purchase receipt. In the event that a part is defective Valken Sports will send out a replacement part free of charge. Wearable items such as o-rings, screws, ball detents, and the like are not covered under this warranty. Failure of any part due to an accident, abuse, neglect, modification, misuse, operator error, lack of maintenance, or use of parts inconsistent with the use originally intended for the marker as sold is not covered by this warranty.

Valken makes no other warranties or guarantees, expressed or implied this marker. Valken Paintball limits its sole and exclusive liability and that of its authorized dealers, affiliates, or agents pursuant to this warranty to cover repair or replacement of the defective part. Incidental and consequential damages are expressly excluded hereunder. Valken Paintball, its authorized dealers, affiliates, or agents will not be liable under this warranty, nor under any state or federal law, the common law, or otherwise for any damage or failure, including personal injury, resulting from such use and/or alteration. This warranty gives you specific legal rights, and you may also have other rights that may vary from state to state.



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Using your RM-1 Paintball Marker

Trigger Safety Pin

Before beginning setup, locate the trigger safety pin above the trigger. Make sure the trigger safety is pushed in on the left hand side of the marker so that the marker is not accidentally discharged during setup.



SAFETY ON SAFETY OFF

Barrel Installation

1. Make sure the marker is degassed and that the hopper is removed. Make sure that no paintballs are in the feed port or breech. Confirm that the safety is set to "safe" mode.
2. While pointing marker in a safe direction, place the threaded end of the barrel into the front opening of the marker body.
3. Turn the barrel clockwise until it stops. Do not turn the barrel with too much force, just allow the threads to draw the barrel in until it stops. Do not over tighten.
4. Immediately install a barrel blocking device. A blocking device is any device that prevents the accidental discharge of a paintball, such as a barrel plug.

Feedneck Installation

1. Rotate the feedneck lock lever down into the unlocked position.
2. Slide the feedneck onto the mounting rail from the rear all the way to the front of the mounting rail.
3. Rotate the lock lever up into the locked position until it clicks into place.

Loader Installation

1. Unclamp the feedneck clamp lever.
2. Insert the loader into the opening of the feedneck until it bottoms out.
3. Align the loader so that the lid is to the rear.
4. Clamp down the loader with the clamp lever.
5. If necessary, adjust the clamp lever adjustment screw using a 3/32" allen wrench so that the loader is snug, but

DO NOT overtighten.

Air Cylinder Installation

1. With a barrel blocking device properly installed, point the marker in a safe direction. Pull the cocking knob located on the left side of the marker back until it clicks and stops. This will cock the marker. Release the cocking knob and the marker is now cocked.
2. Locate the air source adapter at the base of the grip frame.
3. Position the marker so that the air source adapter is pointed upwards and make sure that the barrel of the marker is pointed down.
4. Insert the end of the threaded cylinder valve into the adapter.
5. Do not push the cylinder, but slowly twist the cylinder clockwise. Allow the threads to draw the cylinder into the marker until it stops. Once it stops, the marker is charged.

Velocity Adjustment

1. Make sure eye protective devices designed specifically for paintball use are worn by the operator and anyone within range.
2. Aim your RM-1 barrel over the chronograph.
3. Set the trigger safety to fire by pushing the safety pin in on the right side of the marker.
4. Pull the trigger once and observe the reading on the chronograph.
5. Locate the velocity adjuster screw recessed on the left side of the RM-1 receiver.



6. To increase or decrease the velocity of the paintballs discharged from a marker, use a 5/32" allen wrench to turn the screw clockwise to reduce velocity and counterclockwise to increase velocity. Note: When adjusting the velocity, make small adjustments, testing after each



WARNING



READ ENTIRE OWNER'S MANUAL BEFORE USING.

This paintball marker is not a toy. Misuse of this product could result in serious injury or death. Proper face, throat, ear, and eye protection designed specifically for paintball must be worn by the user and persons within range. Recommended for 18 years of age or older to purchase. Persons under 18 years of age must have adult supervision.

RULES OF SAFE MARKER HANDLING

1. Treat every marker as if it were loaded.
2. Never look down the barrel of a paintball marker.
3. Keep your finger off the trigger until ready to shoot.
4. Never point the marker at anything you don't wish to shoot.
5. Keep the marker on "safe" until ready to shoot.
6. Keep the barrel blocking device in/on the marker's muzzle when not shooting.
7. Always remove paintballs and propellant source before disassembly.
8. After removing propellant source, point marker in safe direction and discharge until marker is degassed.
9. Store the marker unloaded and degassed in a secure place.
10. Follow warnings listed on propellant source for handling and storage.
11. Do not shoot at fragile objects, such as windows.
12. Every person within range must wear eye, face, and ear protection designed specifically to stop paintballs and meeting ASTM standard F1776.6.
13. Always measure your marker's velocity before playing paintball and never shoot at velocities in excess of 91.44 meters (300 feet-per-second).
14. Do not use this marker to shoot at a target closer than 20 feet.

VALKEN PAINTBALL

RM-1 Paintball Marker

Thank you for purchasing the RM-1 Paintball Marker by Valken Paintball. The RM-1 was designed to be a durable paintball marker for players of all experience levels in all conditions and to be easily maintained.

RM-1 Specifications

Caliber.....	0.68
Action.....	Semi-Automatic
Barrel.....	Removable 8" ported
Power.....	CO2 or Compressed Air (High Output)
Construction.....	Aluminum & Polymer
Velocity.....	Up to 300 Feet Per Second (FPS)
Effective Range.....	150+ feet

adjustment. When reducing velocity, it may be necessary to make several adjustments before a reduction in velocity is achieved.

General Disassembly for Maintenance

1. Remove all air sources from marker.
2. Make sure marker is de-cocked.
3. Remove locking pins (25) from grip frame and pull frame away from body. (Locking pins will need to be loosened with a 3/32 allen key & screwdriver).
4. Unscrew air trans screw (22).
5. Slide air trans block (19) forward, then pull down grip and air trans will be freed for removal.
6. Remove locking pin (25) from top of rear body plug (9).
7. Slide internals out to the rear of marker (make sure velocity screw (54) is in body).

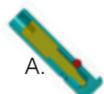
Complete Disassembly

Complete the above steps 1 through 7 first.

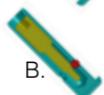
8. Remove forgrip (12).
9. Unscrew barrel (optional)
10. Remove locking pins (25) from barrel adapter.
11. Pull out barrel thread adapter (5).
12. Slide body halves apart.

Reassembly

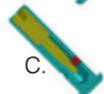
1. Reverse steps 12 through 8 if fully disassembled.
2. **IMPORTANT:** Make sure internals are aligned properly before reinstall.
 - A. Make sure cocking rod (15) is hooked to connecting rod (13) correctly or marker will not cycle. (See picture).
3. Reverse steps 7 through 1.
4. After Assembly is complete, Re-Chronograph for best performance.
5. **IMPORTANT:** Locking pins can be adjusted to various tightness to suit your preference.



A. **Non-Removable Pin:** Screw the pin down to a hand tightness for maximum hold.



B. **Removable Pin:** Unscrew the pin out halfway for a medium hold. (Removable with some effort).



C. **Field-Stripable Pin:** Unscrew the pin so that it is flush with the top for an easily removed pin.

Correct RM-1 Engine Assembly



IMPORTANT: When reassembling the marker, make sure cocking rod (15) is hooked to connecting rod (13) correctly or marker will not cycle.

SCAN THE CODE FOR AN RM-1 DISASSEMBLY & MAINTENANCE VIDEO.



ITEM NO.	PART NUMBER	DESCRIPTION	ITEM NO.	PART NUMBER	DESCRIPTION
1	1-R	Receiver Left		33	Trigger Catch
2	2-R	Receiver Right		34	Trigger Catch Spring
3	3-R	Frame Left		35	Trigger Catch Pin
4	4-R	Frame Right		36	Sear
5	7-R	Barrel Therad Adapter	28	37	Sear Spring
6	9-R	Bolt	29	21	Trigger Safety Pin
7	20-R	Valve Housing	30	22	Trigger Safty Pin O-Ring -006 Red
8	22-R	Valve Tube	31	23	Steel braided hoses
9	31-R	Rear Body plug	32	24	Air Source Adapter (ASA)
10	45-R	Trigger Gard	33	16	Girp
11	57-R	Foregrip Locking Stem	34	17	Grip Screw
12	59-R	Foregrip		Feedneck	
13	62-R	Connecting Rod		63	Feedneck Housing
14	95-R	Grip Mounting Plate		75	Feedneck Lever Pin
15	96-R	Cocking Rod		119-R	Cap Screw 8-32
16	97-R	Spring Stop Washer		118-R	Square Nut 8-32
17	107-R	Cocking Rod Spring	35	106-R	Feedneck Housing lock Lever
18	98-R	Cocking Guide Rod	36	54	Hammer
19	100-R	Air Transfer Block	37	55	Hammer O-Ring -019 P 90
20	105-R	1/4-20 X .250 FSH Cap Screw	38	56	Hammer Insert
21	109-R	#6-23 Nut	39	59	Hammer Spring
22	101-R	Air Transfer Screw	40	60	Hammer Spring Strut
23	113-R	-00910 U-90	41	61	Hammer Bumper O-Ring -117 N70
24	102-R	Barrel safty Sleeve	42	41	Valve O-Ring -019-U90
25	108-R	Locking Pin	43	43	Cup Seal Seat
26	111-R	Ball Detent	44	44	Cup Seal Seat O-Ring -012-U70
	112-R	M1X7.5 N-70	45	45	Cup Seal
27	Trigger Group		46	46	Cup Seal Spring
	28	Trigger Plate Left	47	47	Spring Stop
	29	Trigger Plate Right	48	48	Spring Stop O-Ring -012-U70
	30	Trigger Plate Pin	49	49	Retaining Ring
	31	Trigger	50	51	Bolt O-Ring -015 N70
	32	Trigger Spring	51	5	Barrel
			52	25	Short ASA Screw
			53	26	Long ASA Screw
			54	17-R	Foregrip Locking Stem O-Ring
			55	39	Velocity Screw
			56	110-R	1/4-20 X 250 SET SCREW
			57	117-R	Alternative T Handle
			58	116-R	T Handle
				120-R	Locking Pin Short

