



Special 1

WARNING:

- 1. The DP G5 SPEC-R is NOT A TOY. Treat it with the same respect and care you would a firearm.
- 2. Carelessness, Misuse, and failure to adhere to the warning and guidelines printed in this Owner's Manual may
- 3. Always ensure that proper safety gear eyes, face, ear, and head protection conforming to

ASTM standard F1776 (USA) or CE (Europe) are worn at all times when paintballs are within range.

- 4. Persons under the age of 18 must have adult supervision at all times during use of the G5 SPEC-R, or any paintball firing device.
- 5. Observe all local and national laws regarding rules and regulations.
- 6. The G5 SPEC-R should only be used on a permitted and regulated paintball field where safety rules and guidelines are strictly enforced.
- 7. Only use compressed air or nitrogen. Do NOT USE CO2!
- 8. Only use high quality, .68 caliber paintballs.
- 9. Never point your G5 SPEC-R at an unintended target.
- 10. Always treat your G5 SPEC-R as if it were loaded.
- 11. Keep your G5 SPEC-R turned OFF until ready to use.
 - 12. Always measure the velocity of paintballs from your G5 SPEC-R with a suitable chronograph device before play.
 - 13. Never look down the barrel or breech area of the G5 SPEC-R without first ensuring that the marker is switched to the OFF position, with NO AIR in the marker.



WARNING CONTINUED:

- 14. Never put any body parts or foreign objects into the breech or feed tube.
- 15. Always use the supplied barrel cover when your G5 SPEC-R is not in use at the field. Doing so will help secure the safety of yourself and those around you.
- 16. Never allow pressurized gas to come into contact with your body. Serious harm, injury, or death may occur.
- 17. When not in use, always turn your G5 SPEC-R to the OFF position.
- 18. Promptly remove any paintballs from your G5 SPEC-R when not in use.
- 19. Always remember to remove residual air from your G5 SPEC-R before attempting maintenance or service.
- 20. Always remember to remove residual air from your G5 SPEC-R before storage or transportation.

NOTE: Powering 'off' the marker will not automatically remove residual air. To safely remove residual air, please do the following:

- A. Remove loader and paintballs from marker.
- B. Turn Eye Sensors to the OFF position.
- C. Point marker in a safe direction.
- D. Fire marker until all residual gas is removed.H
- 21. Always store your G5 SPEC-R in a safe place.
- 22. Do not discard the Owner's Manual. In the event of transfer or resale, this guide must accompany the marker.
- 23. When in doubt, ALWAYS seek expert advice by contacting a reputable airsmith familiar with paintball markers, or by contacting DP Engineering's Customer Service Staff.



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FEATURES >

- Two Piece Micro Honed 14" Barrel Kit
- OLED Pofiler board with full programmable marker setpoints
- Lightweight Structural Frame and Body (1.89lbs with Barrel and Battery)
- Full Metal Polish Finish
- New and Refined Milled Trigger
- Enlarged Grip Frame with OLED Cover Display
- · Hose free inline regulator design
- O-Ring less design with innovative and highly efficient Dump-Valve system
- Patened Clamping Feedneck System and RAPS[™] ASA
- Low pressure operating (170PSI/280FPS)



CONTENTS OF PACKAGE>

- 1. G5 Spec-R Marker
- 2. 14" .689 Microhoned Two Piece Barrel Kit
- 3. Barrel Sock
- 4. Ball-end Hex Key Set
- 5. Maintenance Kit
- 6. DP-40 PLUS Lubricant
- 7. Owner's Manual
- 8. Product Serial Registration Card





KNOW YOUR G5 SPEC-R >

Your G5 Spec-R is a sophisticated piece of machinery, designed for superior performance along with ease of use and maintenance. For maximum enjoyment and safety while using your G5 Spec-R, please take the time to acquaint your-self with its operation, controls, programable features, care, and maintenance instructions found in this owner's manual.





G5 SPEC-R PARTS LIST >

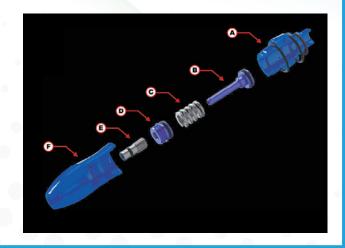
- A. G5 Spec-R Body
- B. G5 Spec-R Enlarged Frame
- C. Eye Cover
- D. Eye Sensor
- E. OPR (Operational Pressure Regulator)
- F. Dump-Valve Bolt
- G. Back Cap
- H. Low-Rise Clamping Feedneck
- I. Two-Way Solenoid
- J. Trigger
- K. OLED Profiler Board
- L. RAPS™ (Rapid Air Pressurizing System) ASA
- M. Power Button
- N. Grip
- O. Body/Frame Contact Screw #1
- P. Body/Frame Contact Screw #2





INLINE REGULATOR >

- A. Operating Pressure Regulator Top Housing (Collar)
- B. Regulator Piston
- C. Regulator Spring
- D. Piston Seal
- E. Regulator Velocity Adjustment Screw
- F. Operating Pressure Regulator Bottom Housing





GS SPEC-R BOLT SYSTEM >

- A. Bolt Body
- B. Bolt Bumper
- C. Back Cap
- D. Back Cap Bumper





EVERYTHING YOU NEED TO GET STARTED >

- One 9V battery. Be sure that the battery is fresh and from a reputable manufacturer.
- Rechargeable Batteries are NOT recommended By DP Engineering
- Paintball loading device. (Recommended minimum load rate of 25 BPS)
- 68 caliber paintball. Always use fresh, high-quality paint with proper bore size .68 caliber paint for best results
- Approved air tank utilizing COMPRESSED AIR or NITROGEN ONLY.

DP Engineering Recommends an output pressure from the Tank Source be between the range of 450PSI to 650PSI. If unsure of the tank output, it is recommended that you contact your tank manufacturer. Do not exceed 850PSI tank output pressures.



BARREL COVER >

Always use the supplied barrel cover before airing up your G5 when it is not in use at the field. Doing so will help secure the safety of yourself and those around you.





INSTALLING THE BATTERY

- Carefully remove the 3 hexagonal screws (5/64") holding the right panel in place.
- Attach 9V battery to the grip frame.
- Replace battery in grip frame as shown in illustration C. Do not use over force.
- Replace grip and screws. Do not over tighten screws!







ATTACHING A PAINTBALL LOADER >

- Release clamp on feedneck.
- · Loosen thumbscrew counterclockwise by hand.
- · Insert feed tube of loader unit.
- Close clamp securely. Loader should fit snug within feedneck.
- If loader is loose, remove and adjust thumbscrew clockwise





ATTACHING AIR TANK TO RAPS™ FLIP LEVER ASA >

- Swing flip lever to the 'release' position.
- Attach air tank by carefully screwing it into the threaded portion of the RAPS™ ASA. Make sure tank fitment is tight and all the way in.
- Return flip lever of the RAPS™ASA to the 'close' position.
- A brief sound of air entering the system is normal. The G5 SPEC-R is now pressurized.

NEVER USE CO2! NITROGEN OR COMPRESSED AIR TANKS ONLY!











VELOCITY ADJUSTMENT >

- Locate the (1/8") hex key wrench included with your G5 SPEC-R.
- Adjust screw located at the bottom side of the Operating Regulator (OPR) to increase or decrease velocity.
- Turn screw counterclockwise to increase velocity.
- Turn screw clockwise to decrease velocity.

WARNING:

DP ENGINEERING RECOMMENDS THAT THE VELOCITY NEVER EXCEED 300 FPS. FAILURE TO FOLLOW REGULATIONS REGARDING MAXIMUM ALLOWABLE VELOCITY, CALCULATED IN FEET PER SECOND (FPS). MAY RESULT IN DAMAGE OF PAINTBALL MARKER, SERIOUS INJURY OR DEATH. BE RESPONSIBLE AND ALWAYS USE A CHRONOGRAPH TO DETERMINE ACCURATE VELOCITY BEFORE PLAY.





TRIGGER ADJUSTMENT >

- There are four adjustment screws (marked A, B, C and D) to adjust the trigger on the G5 SPEC-R.
- Screw A (5/64") adjusts the amount of trigger travel prior to the marker firing. Turning this screw clockwise will reduce the amount of trigger travel. Turning this screw counterclockwise will increase the amount of trigger travel.
- Screw B (5/64") sets the amount of trigger travel after the marker has been fired. Turning the screw clockwise will reduce the amount of trigger travel. Turning the screw counterclockwise will increase the amount of trigger travel.





TRIGGER ADJUSTMENT CONTINUED >

- Screw C (3/32") adjusts the strength of the trigger's return to rest by either reducing or increasing the magnetic pull. Turning this screw counterclockwise will decrease the strength.
- Turning this screw clockwise will increase the strength. Do not turn the screw too far doing so may weaken the magnetic pull and prevent the trigger from being able to rest.
- Screw D (5/64") adjusts the length of the trigger's touch the micro-switch. Turning this screw counterclockwise will decrease the length. Turning this screw clockwise will increase the length. Do not turn the screw too far doing so may damage the micro switch.







CARE AND MAINTENANCE >

Your G5 SPEC-R was designed to be reliable, easy to maintain, and easy to repair. Routine maintenance will ensure many years of performance and enjoyment. When in doubt, always seek the assistance of a certified technician from a reputable pro shop, or contact DP Engineering Customer Service.

DEGASSING the G5 SPEC-R

Always be sure to completely de-gas your marker before performing maintenance or service repair. Carefully follow the instructions below in sequence to ensure that all remaining air has been removed from the entire operation.

- 1. Flip the RAPS™ASA to the "OFF" position; unscrew to disconnect the air tank from the RAPS™ASA.
- 2. Remove the paintball loading device and check to make sure there are no paintballs within the breech.
- 3. Turn the eyes to the "OFF" position and point the marker to a safe direction, then fire 1-2 shots to remove air from the OPR. Be aware that the marker may still fire without an air system attached!
 - 4. POWER OFF the marker.



IMPORTANT NOTES BEFORE SERVICING YOUR MARKER >

- Use of hydrocarbon based oils, low viscosity lubricants, and other lubricants
 Not specifically designed for dp markers can severly damage internal
 Seals and moving components and are not recommended.
- Apply maintenance to the recommended components/areas in accordance to the Instructions in this manual.
- Do not apply excessive lubricant.
- Always inspect your marker after each use. Clean if needed.
- Never apply excessive force when removing or replacing screws. Doing so may Strip the screw heads or damage threads.
- Always use the correct size and the appropriate tools to prevent stripping of material
- Refrain from submersing entire marker in liquid. Keep sensitive electronics
 Such as solenoid and OLED circuit board free from moisture and extreme temperatures
- Never allow someone who is unfamiliar with your marker to perform maintenance or repair work. When in doubt, contact DP Engineering customer service.



CLEANING THE EYE-SENSOR BREAK BEAM SYSTEM >

The function of the break beam sensor eyes is to allow the firing circuit to 'time' the activation of the solenoid. This prevents 'chopping' of paint, which is caused by the bolt cycling within the breech without the paintball being seated in the proper firing position.

When the eye sensors are ON, the gun will not fire if the beam does not sense a paintball. To ensure proper function, the eye sensors should be cleaned after every other use, or when paintballs have been broken within the marker. More frequent cleaning may be necessary when using paintballs that have 'oily residue' on the surface of the shell. To avoid malfunction, always use fresh and clean paint from a reliable manufacturer.







CLEANING THE EYE-SENSOR BREAK BEAM SYSTEM CONTINUED >

To clean the eyes:

- 1. Locate the eyes cover plates on either side of your G5 SPEC-R.
- 2. Using provided hex key wrench (5/64"), carefully remove the eye cover screw as well as the grip panel screws on Tone side by inserting ball point tip and turning wrench handle counterclockwise.
- 3. Lift eye cover plate, exposing eye wires, and ball detent.







CLEANING THE EYE-SENSOR BREAK BEAM SYSTEM CONTINUED >

- 4. Carefully pull out the eyes sensors from the socket, do not lose the ball detent and eye cover screw.
- 5. With a cotton swab, gently wipe the back and front side of the eye sensor and the eye socket to remove any debris or residue.
- 6. Replace eye sensors back to original position. Be sure the eyes are aligned correctly and facing the direction of the breech.
- 7. Replace eye cover plate in original position and gently tighten eye cover screws clockwise.

DO NOT OVERTIGHTEN!

8. Repeat the same procedure on the other side.

HELPFUL HINT

DO NOT PULL ON THE EYE WIRES. USE A SMALL PICK OR SCREW DRIVER TO
GENTLY LIFT THE WIRES UP. THIS WILL LIFT THE EYE SENSORS OUT OF THE MOLEX
SOCKET



CLEANING THE BALL DETENTS >

The ball detents should be inspected during the cleaning of the eye sensors. Replace these parts should you notice any damage, no matter how slight.

- 1. Locate the eye cover plates on either side of your G5 SPEC-R body.
- 2. Using provided hex key wrench (5/64"), carefully remove the eye cover screw on one side by inserting ball point tip and turning wrench handle counterclockwise.
- 3. Place finger within breech, and gently push on the detent from the inside of marker body. Remove ball detent.
- 4. With a cotton swab, clean ball detent, and detent groove.
- 5. Replace detent back to original position, with the circular side down towards the breech.
- 6. Replace eye cover plate in original position and gently tighten eye cover screws clockwise

DO NOT OVERTIGHTEN!

7. Repeat the same procedure on the other side.



CLEANING THE BALL DETENTS CONTINUED >





OPERATING PRESSURE REGULATOR (OPR) >

Disassembly and Maintenance

The OPR regulates the amount of air-flow, which determines paintball velocity. Regular inspection and cleaning of your OPR is an essential part of keeping your G5 SPEC-R running in top condition. Follow the easy steps outlined below to ensure that your OPR remains trouble-free.

GENERAL DISASSEMBLY OF OPR

- 1. With a firm hold on the Regulator Body, unscrew by hand the entire unit in a counterclockwise direction. If the OPR unit is difficult to turn by hand, your (1/4") hex key may be used to remove OPR body.
- 2. By hand or with the assistance of hex key wrench (1/4") at the bottom & unscrew the OPR from the Regulator Top Housing using a (5/16") hex key (not included with your G5 Spec-R).





OPERATING PRESSURE REGULATOR (OPR) CONTINUED >

Take out Regulator Piston and remove Regulator Spring.

- 3. Carefully disassembly Regulator Piston and Regulator Spring.
- 4. Using supplied hex key wrench (1/4") and (7/32") carefully disassemble the Regulator Bottom Cap and Piston Seal with turning wrench handle counterclockwise.







NOTE: Do not unscrew by using wrench or pliers, as doing so may scratch and damage the anodized surface



OPERATING PRESSURE REGULATOR (OPR) CONTINUED >

- 5. Using supplied hex key wrench (1/8") turn clockwise to remove Regulator Adjustment Screw.
- 6. Remove all visible debris and dirt with a lightly dampened and clean cotton cloth. Do not to scratch the surface of any regulator parts.
- . Lightly apply a small amount of DP-40 PLUS lubricant to the tip of a cotton swab.



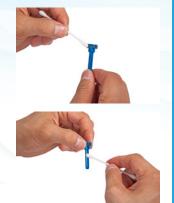
NOTE: Be careful not to apply excess pressure, as doing so may damage sensitive parts and/or strip delicate threads.



OPERATING PRESSURE REGULATOR (OPR) CONTINUED >

CLEANING AND MAINTENANCE OF OPR

- Remove all visible debris and dirt with a lightly dampened and clean cotton cloth.
 Do not scratch the surface of any regulator parts.
- 2. Lightly apply a small amount of DP-40 lubricant to the tip of a cotton swab.
- 3. Apply lubricant to the o-ring located on the base of the Regulator Piston Seal. Apply lubricant to the 2 o-rings located on the Piston Seal.
- 4. Apply lubricant to the o-ring located on the base of the Regulator Adjustment Screw.









DISASSEMBLY AND MAINTENANCE OF DUMP VALVE BOLT AND DUMP VALVE PLUG >

- 1. Unscrew front of barrel from G5 SPEC-R body.
- 2. Use supplied hex key wrench (1/4") on the back of marker and unscrew back cap.
- 3. Remove Dump Valve Plug from marker body.
- 4. Remove Dump Valve Bolt from marker body. If may be necessary to use your finger to pull it or push it out, as illustrated.
- 5. Wipe off all visible debris and grime from the Dump Valve Bolt, Dump Valve Plug and internal of G5 SPEC-R body with a soft dampened cotton cloth and cotton swab.







DISASSEMBLY AND MAINTENANCE OF DUMP VALVE BOLT AND DUMP VALVE PLUG CONTINUED >

- 6. Lightly apply DP-40 PLUS lubricant to the tip of a cotton swab.
- 7. Apply lubricant directly onto the Dump Valve Bolt.
- 8. Apply lubricant to the o-rings located on the back cap.

NOTE: the above steps are all that are required for normal bolt maintenance.







WARNING: Never use force during disassembly or reassembly. Always seek assistance from a DP Dealer or contact DP Engineering customer service if you are uncertain of any instructions described in this manual.



SEPARATING THE G5 BODY FROM THE TRIGGER FRAME >

- 1. Carefully remove the 3 hexagonal screws (5/64") holding the right panel in place.
- 2. Gently secure the base of the connectors and pull up to remove the plugs. DO SO ONE AT A TIME. It may be helpful to use needle nose pliers. Note the location and direction of the connectors on the circuit board for reassembly.







SEPARATING THE G5 BODY FROM THE TRIGGER FRAME CONTINUED >

- 3. Locate screw #1 underneath G5 Spec-R body between OPR and Trigger Guard and screw #2 behind the trigger frame. Using (3/32") allen key wrench, loosen Connector Screw by turning it counterclockwise.
- 4. Separate the G5 Spec-R body from the trigger frame.







SOLENOID MAINTENANCE >

The G5 Spec-R solenoid is a delicate electronic component that requires minimal maintenance or service.

DP Engineering does not recommend maintenance of this part, or its internals. The following instructions are provided for reference and for expert technicians only.

- 1. Using (5/64") hex key, locate and remove both screws securing the solenoid to the marker body.
- 2. Once both screws are removed, gently lift and remove the solenoid.
- 3. Place solenoid on a flat surface, with the wiring harness side facing down and solenoid disassembly screw facing up.
- 4. Secure base of solenoid casing with an adjustable wrench (not provided). Using a slotted (flathead) screwdriver, remove screw carefully by turning it counterclockwise. Be extremely careful not to strip the screw.



SOLENOID MAINTENANCE CONTINUED >









SOLENOID MAINTENANCE CONTINUED >

- 5. Remove solenoid spring.
- 6. With thin tweezers or needle nose pliers, carefully remove the solenoid piston by gently securing the tip and pulling it out.
- 7. Carefully inspect and clean solenoid piston o-rings. Make sure the o-ring are not cracked, broken, or show signs of wear. Replace parts if necessary.
- 8. With a cotton swab, lightly apply a small amount of DP-40 PLUS lube to the solenoid piston assembly.
- 9. Replace in reverse order.



SOLENOID MAINTENANCE CONTINUED >





WARNING!

NEVER USE FORCE WHEN REMOVING OR
REINSTALLING THE SOLENOID AND ITS SENSITIVE INTERNALS. BE CAREFUL NOT TO BEND, TWIST, OR BREAK
DELICATE WIRES, AS DOING SO MAY RENDER THE UNIT
INOPERATIVE OR CAUSE IT TO MALFUNCTION.

REMOVING THE G5 SPEC-R TRIGGER FROM THE FRAME >

- 1. Locate the two trigger return spring plate screw. Use (5/64") allen key wrench to loosen and remove both screws by turning them counterclockwise. Be careful not to misplace the screws and trigger return spring.
- 2. Locate trigger remove the two fix trigger screw. Use (3/32") allen key wrench to loosen and remove screw by turning it counterclockwise.
- 3. Remove trigger assembly by lifting it up and out of G5 trigger frame.











RAPS™ FLIP LEVER ASA REMOVAL AND MAINTENANCE >

The RAPS™ ASA was designed to be virtually maintenance free. However, it may be necessary to occasionally clean and inspect for debris or damage, as either may cause malfunction or leaking of air.

- 1. Locate screws within grip frame as illustrated, and unscrew with (5/32") allen key wrench.
- 2. Using (5/64") allen key wrench, loosen and remove screw by turning it counterclockwise. See next page.









RAPS™FLIP LEVER ASA REMOVAL AND MAINTENANCE CONTINUED >

- 4. Use a lightly dampened cloth and/or cotton swab to remove debris or grime from all RAPS™ ASA components, including the piston, spring, lever, and casing.
- 5. Clean and inspect o-ring located on the base of the piston. Replace o-ring if it appears worn, cracked, or damaged. Using a cotton swab, apply a small amount of DP-40 PLUS lubricant on the o-ring.
- 6. Make sure the spring is properly seated on the piston, then reassemble the RAPS™ASA in the reverse order of assembly.









STATEMENT OF LIABILITY >

The manufacturer assumes no responsibility for this product's sale or distribution. PROPERTY DAMAGE, BODILY INJURY, OR DEATH could occur due to misuse, abuse or failure to follow the manufacturer's instructions stated in this manual. The manufacturer will assume no responsibility for physical injury or property damage resulting from the use of this marker. The information in this document is subject to change without prior notice. The manufacturer assumes no responsibility for any errors that may appear in this document.





DISCLAIMER >

Notice is hereby given that this owner's manual is part of the article owned in whole by the manufacturer, known as indicated by this disclaimer and all illustrations within the manual. All rights for manufacturing and reproducing of such articles or any part thereof are reserved by the manufacturer. Neither said article nor any part thereof may be manufactured or reproduced in any way except by the written authorization of the manufacturer. All proprietary truths and information are the sole property of the manufacturer.





WARRANTY >

DANGEROUS POWER™ warrants this G5 Spec-R paintball marker, to the initial retail purchaser, to be free from defect in original materials and/or workmanship for twelve(12) months from the original date of purchase, with the following exceptions:

- 1. Disposable parts (batteries, o-rings, seals, micro switch, air pressure hose, rubber and/or plastic material parts, etc.) are not included in this limited lifetime warranty.
- 2. Electronic parts on this marker are fully warranted for 30 days from the original date of purchase.
- 3. Bolt and striker system of this marker are fully warranted for 6 months from the original date of purchase.
- 4. Surface damages (scratches and nicks) or operation failure due to accident, neglect, improper disassembly and reassembly, are expressly not covered under this warranty.



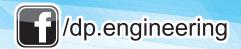
WARRANTY CONTINUED >

PURCHASER IS RESPONSIBLE FOR ALL RENDERED SERVICES NOT COVERED UNDER THIS LIMITED WARRANTY, INCLUDING ANY APPLICABLE SHIPPING COSTS, LABOR, AND/OR INSTALLATION.

DANGEROUS POWER™ reserves the right to determine the legitimacy of claimed defective original parts and their eligibility for coverage under the terms of this warranty. DANGEROUS POWER™, its authorized dealers, affiliates, and/or agents, will not be held liable under this warranty, state, federal, or common law for any product failure, personal injury, or property damage resulting from improper use and/or alteration of this product. This limited warranty is non-transferable and is valid only upon presentation of a completed warranty registration card and original proof of purchase. There are no other warranties or guarantees, expressed or implied, made by the manufacturer on this paintball marker.

PAINTBALL MARKERS ARE NON-REFUNDABLE AND ARE NOT SUBJECT TO EXCHANGE FROM THE MANUFACTURER.





Patent Notice: The following products are protected by patents in the U.S. and elsewhere. This website is provided to satisfy the virtual patent marking provisions of various jurisdictions including the virtual patent marking provisions of the America Invents Act. This page is intended to serve as notice under 35 USC 287(a)). The following list of products may not be all inclusive, and other products not listed here may be protected by one or more patents. Information included in this database does not preclude us from pursuing any and all legal rights we may have for the purpose of protecting those rights on our intellectual property.

Additional patents may be pending in the U.S. and elsewhere.

List Of Products: Fusion 7, Fusion 8, Threshold, IQ, G3, REV-I, G3SE, G3 LE, G3/IQ, G3 Spec-R, G4, Fusion X, Fusion Elite, E1, G5, M3-AList of Patents: US7950380, US8006681, US7634991, US7500478, US7658186, US7581537, US7793549.

US7156135, US7401607, US7392802, US7252080, US7290537, US7045726, US6959703, US7861704B2, US8720427, US7861704, US7640923

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