For more product information please visit our website

www.guay2.com

100% Made in Taiwan Please consult your dealer or G&G ARMAMENT for overhaul maintenance and technical guidance.



Manufactured by G&G ARMAMENT

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INSTRUCTION MANUAL

GR16 G4

For more product information please visit our website www.guay2.com



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M16 (more formally Rifle, Caliber 5.56 mm, M16) is the U.S. military designation for a family of rifles derived from the ArmaLite AR-15 and further developed by Colt starting in the mid-20th century.

The M16 rifle family including the M16/A1/A2/A3/A4 has been the primary infantry rifle of the United States military since the 1960s.

Introduction

The M16A1 was simply the M16 with a forward assist feature requested by the Army. All early versions fired the M193/M196 cartridge in semi- or full-automatic modes. The M16A2 is a select fire rifle capable of semi-automatic or three-round bursts and incorporating design elements desired by the Marine Corps.The M16A3 was essentially an M16A2 with an M16A1 fire control group; this had only limited procurement by the United States Navy .

The M16A4 became standard issue for the United States Marine Corps during Operation Iraqi Freedom, increasingly replacing the earlier M16A2. In the United States Army, a combination of the M16A4 and M4 Carbine have replaced the A2 as frontline rifles.

The M16 is primarily manufactured by Colt and Fabrique Nationale de Herstal, with variants produced by numerous countries around the world.



GR16/G4. GR16 series list









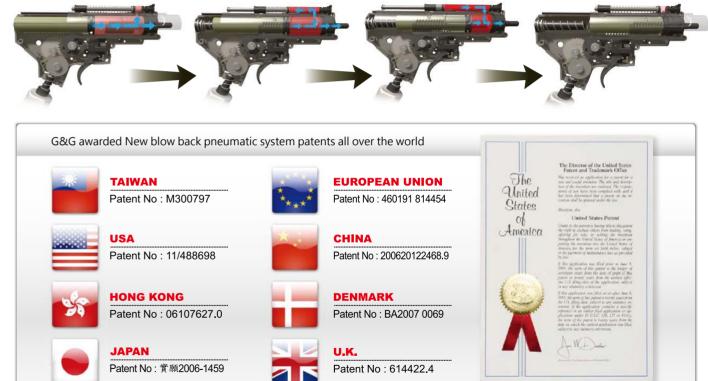
New Blow Back Pneumatic system

True to the faith of mimicking real life firearms, G&G is proud to present its new Pneumatic Blow Back system to its line of airsoft guns.Conventional airsoft blow back utilizes tow hook springs to mimic real life bolt actions, which often lead to excess wear, tear and poor reliability in the gear box. To alleviate the problem of conventional systems, G&G has independently developed the Pneumatic Blow Back system; a piston driven, gas operated mechanism to better mimic real life bolt actions.

This new technology utilizes compressed air to move the bolt, which enables the action without adding extra stress to the gear box.

This class leading system represents a significant milestone in the airsoft industry.







GR16/G4. Patents





- All products employ high precision 6.04mm barrel. Use with precision 5.95mm BB pellets is highly recommended. Damage to the product due by faulty BB pellets voids the warranty. Use with caution.
- A The buyer and the user of this product shall adhere to all local laws regulating the usage and the ownership of airsoft guns.

- A This product is intended for users 18 years or older.
- A Read all instructions before using this product.
- Adult supervision required.

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- Always wear safety goggles when using this product.
- Misuse or careless handling of this product may cause injury.
- May be hazardous up to 50 meters.



When you carry the air gun,attach the safety cap,set the selector lever to the safety position and always put the air gun in a case or bag.

Safety procedures: 1.Attach the safety cap to the muzzle. 2.Set the selector lever to the safety position. 3.Remove the magazine. 4.Remove the battery.

You may be liable for damaging

public, personal property, no for

!! injuring a person or an animal

even if you only mean to shoot

as a "practical joke." Always

observe good manners and

enjoy fun sport shooting.





Select a safe place for operating the air gun, avoid places where people and cars are around.

When shooting the air guns for target practice or in a game situation,you and all participants must wear safety goggles or other eye protective gear.Also,pay attention to ricochets.It is very important to pay attention to third parties other than the participants.





Always attach the safety cap to the muzzle,remove the battery and store the air gun in a case or bag and at a place that is out of reach by children.

Orange tip disclaimer :

- All G&G Airsoft products came with a permanent fixed orange tip required by law, which will grant Airsoft legal usage in the United States and complied with the United States laws.
- ▲ If you altering or removing the orange tip and or if the item is modified or abused, all warranty will be void.

Never direct the muzzle towards a person, animal or in any direction. That may cause harm or damage to the third party.



Looking into the muzzle is extremely dangerous regardless of BB's having been loaded or not.If you get hit in the eye by a BB pellet,you may in worst case,lose your eye sight.



There may be cases where some BB's remain in the gun after the magazine has been removed.After removal of the magazine,direct the muzzle towards a safe direction and pull the trigger to confirm that there are no BB's remain in the gun,then attach the safety cap.



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GR16/G4. Warning

Warning

For more product information please visit our website www.guay2.com





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Make sure to put the barrel and safety cap on the muzzle, except when you are shooting. Do this to prevent accident, discharge of BB's and also for dust protection purpose. Never pull the trigger while the barrel and the safety cap is attached.



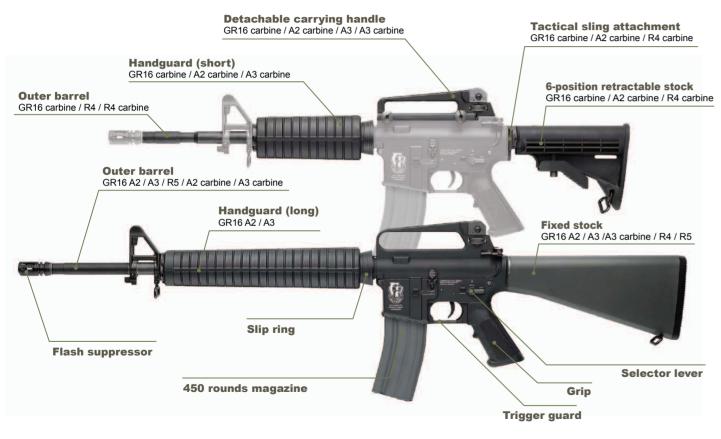
Activating the trigger carelessly is extremely dangerous.Never put your finger on the trigger unless the safety cap is removed and you are ready to shoot a target.



Disassembling or modifying the gun may adversely affect the performance and make it dangerous. "It may be against the Law."



GR16 metal series components





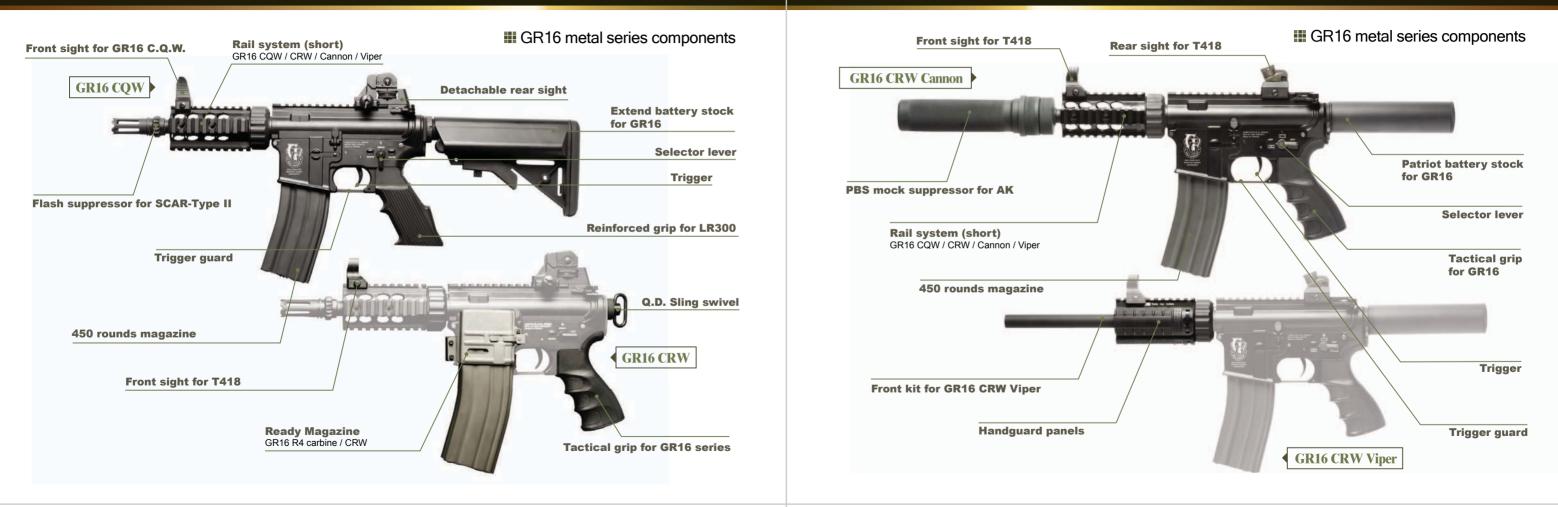
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GR16/G4. GR16 metal series components

GR16 metal series components



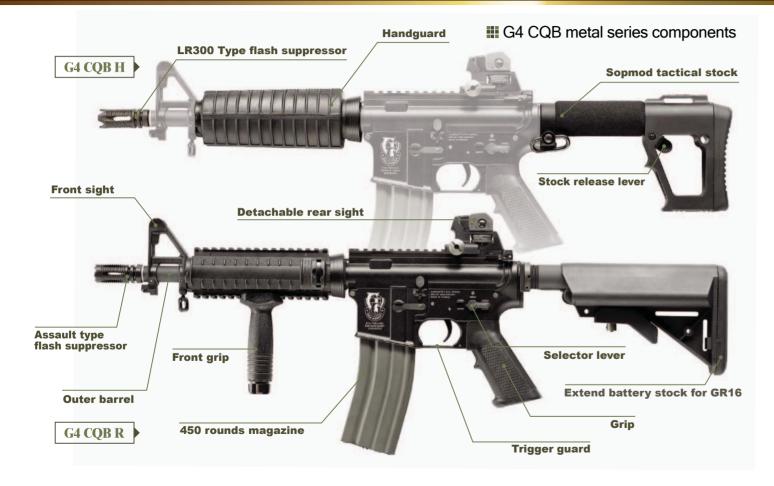




GR16/G4. GR16 metal series components







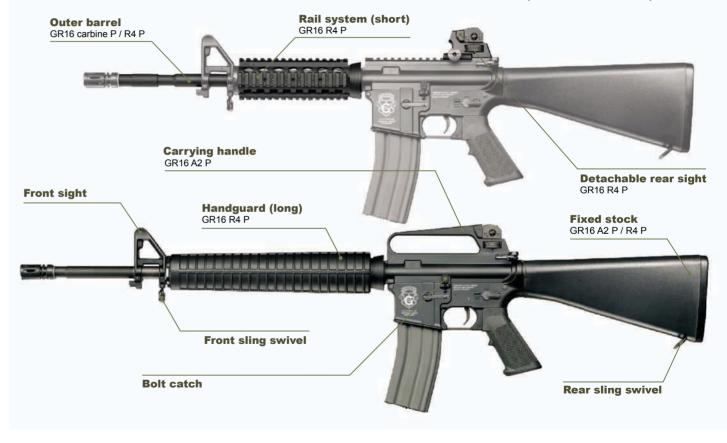


G4 CQB metal series components









GR16 plastic series components



Selector and safety setting

Warning

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- ▶ Never operate the Selector while pulling the trigger. Otherwise, malfunctions may occur.
- ▶ Pulling the trigger with the Selector being set at safe mode may damage the air gun.

Always set the safety mode setting until immediately afrer firing



Safety setting mode

The trigger can not be pulled

When you are not firing the gun or during storage. Always set the selector to the Safe position and attach the protective cap on the muzzle.



Single shot

The gun will fire one shot each time when pulling the trigger.



The gun will fire automatically while the trigger remains pulled.

Warning

▶ Use only the G&G battery purchased from your local dealer.

For fixed stock version



Connect the connector until you heard a click sound.Insert battery into the fixed stock.

For handguard version

Pull the slip ring and hold.

Remove the lower handguard.

GR16 Metal carbine / A2 carbine

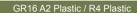




Set the battery beside the outer barrel. Connect battery plug with the connector until you heard a click sound.

Installing battery

GR16 Metal A2 / A3 / A3 carbine / R4 / R5







Close battery cover.

GR16 carbine Plastic / GR16 Light carbine Plastic

G4 CQB H



Hold the battery and pull the slip ring. Remove the lower handquard



Installing battery

G4 CQB R / G4 CQB S

G4 CQB R / G4 CQB S

Warning

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► Use only the G&G battery purchased from your local dealer.

For Extend battery stock version



1. Push the stock release lever. 2. Pull the stock to last position.



1.P ull and hold the stock release lever mount. 2. Pull out the stock.



Turn and take off the battery cover.

GR16 Metal CQW

GR16 Metal CQW

For Extend battery stock version



Insert battery into the stock.



Connect battery plug with the connector until you heard a click sound.



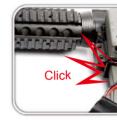
Reinstall the stock.



▶ Use only the G&G battery purchased from your local dealer.

For Ready magazine version



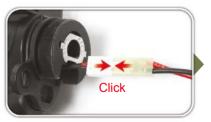


Pull out the connector.

Connect battery plug with the connector until you heard a click sound.

For Patriot battery stock version





Connect battery plug with the connector until you heard a click sound.

GR16/G4. Installing battery

Installing battery







Insert into upper receiver and connect firmly until you heard a click sound.

GR16 Metal CRW Cannon / CRW Viper



- 1. Insert battery into the stock.
- 2. Locking the stock.



Sight adjustment

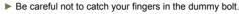


Warning

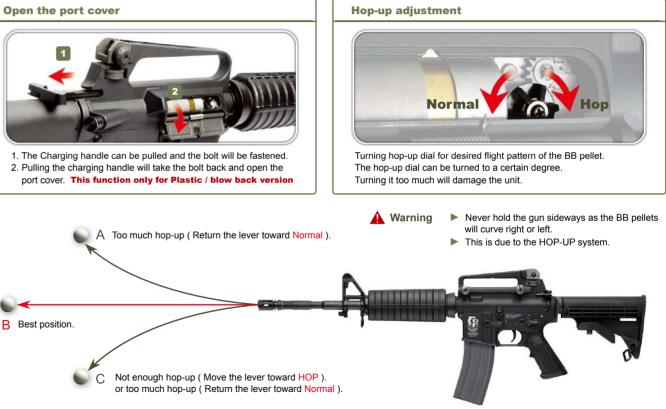
Make sure not to lose the adjustment tool.



Warning







Used for full automatic firing.



Charging handle & Hop-up adjustment

Depress the trigger guard



Warning

Only adjust if the gear noise becomes shrilly.





Depress the trigger guard plunger with a proper tool and open the trigger guard.



The motor adjustable screw is at the bottom of the grip. Use a screwdriver to adjust.

Forward grip setting



Set the forward grip on the rail.



Move the forward grip to adjust position.



Fasten the knob.

Install carrying handle





Connect the detachable carrying handle with the upper receiver.

Fasten the interface knob.

Install rear sight





Put on the detachable rear sight on the upper receiver.

Fasten the interface knob.

Movable parts

GR16/G4. Movable parts

Movable parts



Finish.

Q.D. sling swivel setting

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Movable parts



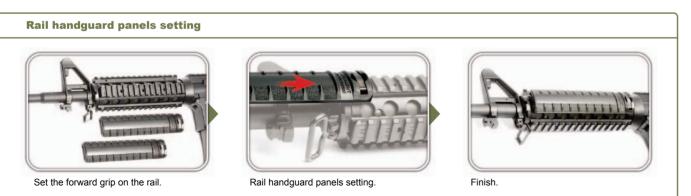
Put on Q.D.sling swivel mount on the rail. Fasten the screw.



Install the Q.D.sling swivel on the Q.D.sling swivel mount.



Install the Q.D. sling swivel on the sopmod tactical stock.



Remove the handguard





Remove the lower handguard.



GR16/G4. Movable parts

Movable parts



Setting the magazine .GR16/G4



Setting the magazine



Warning

▶ Make sure to set the magazine upwards. It is securely installed when you heard a click sound. ► Confirm that the safety lever is set to Safety position and do not place your finger on the trigger.

Setting the magazine



Open the cover of magazine.



Load G&G 5.95mm BB pellets into the magazine. The magazine is capable of holding approximately 450 pellets.



After the BB pellets had been loaded.Close cover and turn the gear on the bottom until the sound changes.

Setting the magazine



Insert the magazine into the body until you hear a click sound.

To release the magazine



Press the magazine release.



Pull the magazine out of receiver.



Select a safe place for operating the air gun. Never put your finger on the bolt when operating the air gun.

Firing





Remove the protective cap only when you are ready for firing the gun.





Set the Selector Lever to Semi or Full Auto. It is installed properly when you heard a



and into the body.

click sound.

GR16/G4. Firing

Firing



- 1. Charge the battery if the firing cycle becomes slow.
- 2. Pausing using the air gun for about 5 to 10 minutes after firing about 500 rounds, in order to ensure long service lives of the motor and battery.



Maintenance



Warning

- Make sure no dirt gets into the chamber to avoid clogging of pellets.
- ► Hop-up may be unstable for 200 to 300 rounds after using silicone oil, this is the normal operation of the gun.
- ▶ Never use CRC-556, WD40 or other corrosive lubricant.



- 1. Drop a few drops of silicone oil or teflon oil into the pellet entrance. After inserting BB pellets into the magazine, fire the gun for up to 200~300 pellets.
- 2. To complete the cleaning, use the cleaning rod (with cotton) to remove excess oil.

Warning

- Do not jam the cleaning rod into the barrel by force.
- Should the BB's remains inside the barrel after following the instruction above, with the protection cap over the barrel, point the gun to a safe direction, and discharge any loosened BB's in semi-automatic mode.

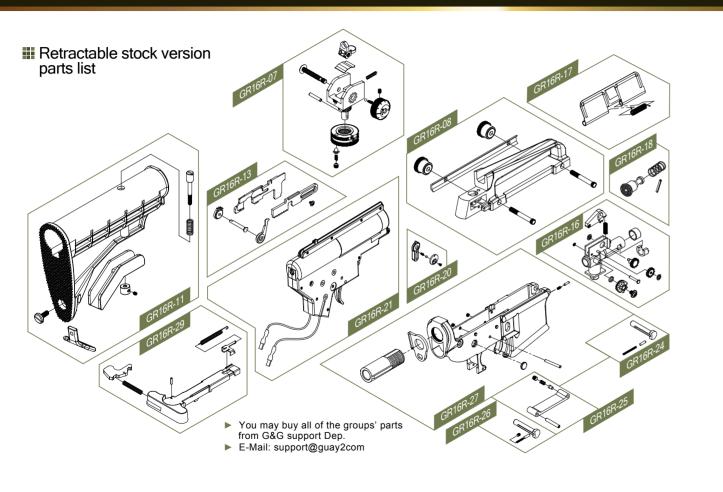


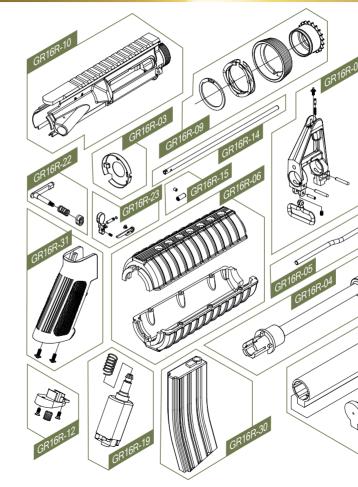
SYMPTOM	CAUSE	ACTION	
No operation at all	Selector lever is set to safety.	Set the selector lever to Semi or Full Auto.	
	Battery is not charged.	Change the battery.	
	Battery connector is disconnected.	Connect the connector.	
	The \ominus and \oplus of battery connector is reversed.	Connect the connector correctly(check the fuse).	
	Expired motor life(50,000 to 60,000 rounds) or poor electrical connection.	Replace the motor(purchasing from your dealer or us)or check and repair the contact	
Although motor is revolving,	Pellets are clogged inside the magazine.	Insert the charging rod into the magazine and move up and down a few times to remove clogged pellets.	
no pellet can be fired	Pellets are clogged in the chamer.	Remove clogged pellets using the cleaning rod.	
no pellet can be lired	Faulty gear.	Purchase the replacement gear from your dealer or G&G and repair.	
Full suits exerction not	Insufficient battery power.	Charge the battery.	
Full-auto operation not functional (automatic firing)	Magazine feed with faulty pellet .	Repair clogging of the magazine.	
iuncional (automatic inng)	Poor electrical connection.	Consult your dealer or us for overhaul maintenance or repair.	
	Damaged or worn chamber set.		
	Damaged or worn piston set (O-ring,piston spring)	Replace the replacement parts.(Purchasing from your dealer or $G\&G$)	
Shooting distance becomes	Something is jammed in the inner barrel	Use the cleaning rod and clean the inner barrel.	
shorter	Faulty BB pellets (too small or heavy)	Use the genuine G&G Pellets.	
	Shortage of silicone oil	Drop a few drops of silicone oil from the chamber upper .	
	Gear problem caused by too many blank firing		
Tee loud exercting poice	Worn or damaged gear	Consult your dealer or G&G for overhaul maintenance, part replacement	
Too loud operating noise	Gear problem caused by too many blank firing	(gear,etc.) or repair.	
Pellets being fallen out from	Damaged or worn chamber set.		
barrel end	No hop setting.	Turn the hop adjustment lever toward Hop.	
	Faulty BB Pellets (too small).	Use the G&G Pellets.	
Pellets flying upwards	Too much hop setting	Gradually return adjustment lever towards Normal.	
Short flying distance of pellets (less hopping up effect)	Too much hop setting	Gradually return adjustment lever towards Normal.	
	Hop packing contaminated by oil or dirt Dirt inside the barrel	Fire pellets equivalent to 4 to 5 magazine or clean the chamber using cleaning rod.	
	Worn or damaged hop packing.		
Operate a direct		Purchase the replacement part from your dealer or G&G and replace it.	
Cannot adjust	Damaged adjustment lever or other pasts	Purchase the replacement part from your dealer or G&G and replace it.	
Frequent pellet clogging	Too much hop setting	Gradually return adjustment lever towards Normal.	
	Improper or too large sized BB pellets.	Use the BB pellet supplied by G&G Armament.	
	Dirty hop packing	Clean using the cleaning rod or consult your dealer or G&G for repair.	
If gun gets wet	Stop operation immediately,disconnect the battery,wipe off water from inside the main body and the battery.After completely dried,carry or trial firing.If the unit is not operational,please contact your local dealer for repair		

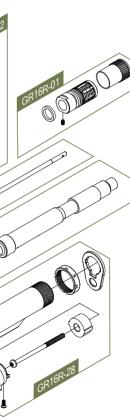
GR16/G4. Trouble clinic











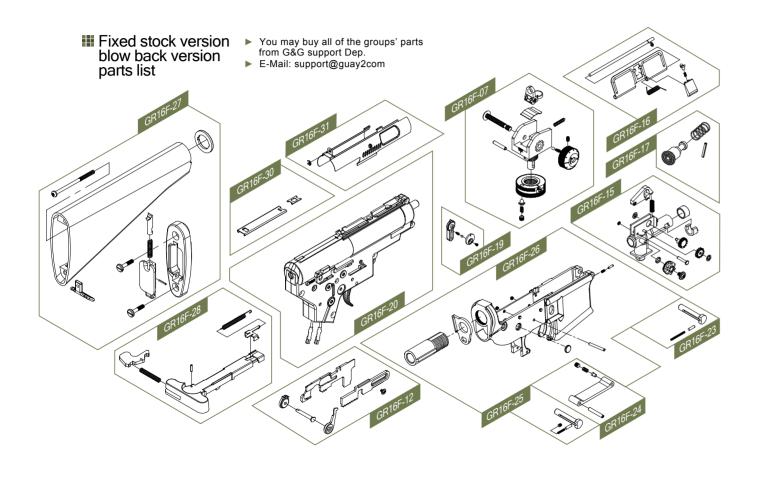
GR16R-01	Flash suppressor set
GR16R-02	Front sight set
GR16R-03	Handguard front fixed ring
GR16R-04	Outer barrel set
GR16R-05	Piston rod
GR16R-06	Handguard set
GR16R-07	Rear sight set
GR16R-08	Detachable carrying handle
GR16R-09	Slip ring
GR16R-10	Upper receiver set
GR16R-11	Retractable stock
GR16R-12	Grip bottom set
GR16R-13	Selector plate
GR16R-14	Inner barrel
GR16R-15	Hop-up rubber set
GR16R-16	Hop-up set
GR16R-17	Port cover set
GR16R-18	Assist knob set
GR16R-19	Motor set
GR16R-20	Selector lever set
GR16R-21	Gear box set
GR16R-22	Magazine catch set
GR16R-23	Bolt catch set
GR16R-24	Front frame lock pin set
GR16R-25	Trigger guard set
GR16R-26	Rear frame lock pin set
GR16R-27	Lower receiver
GR16R-28	Retractable stock set
GR16R-29	Charging handle
GR16R-30	Magazine
GR16R-31	Grip

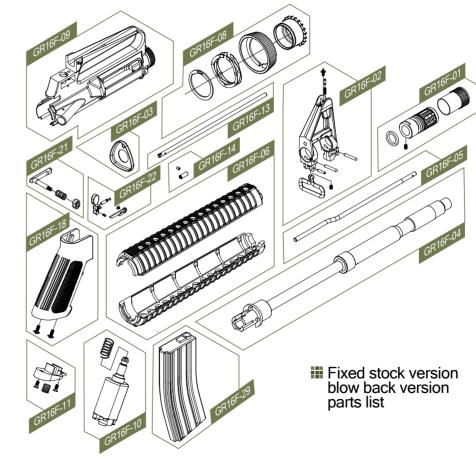










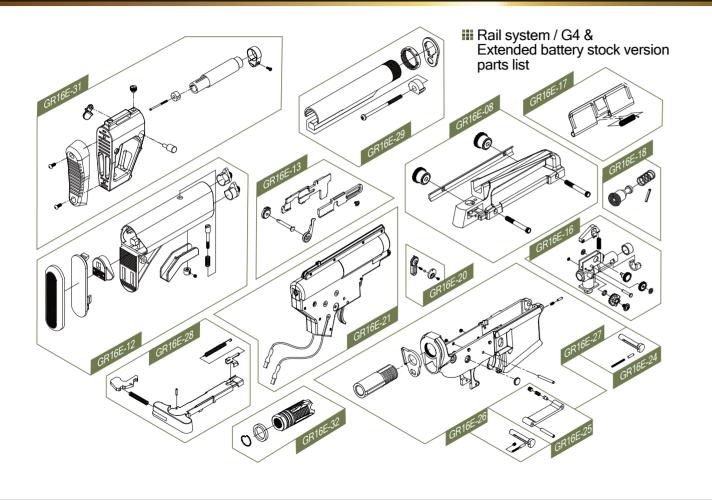


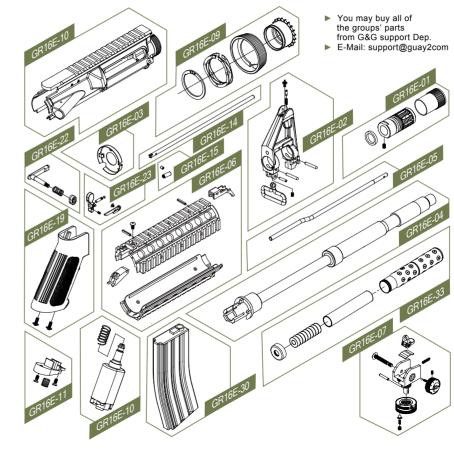
GR16/G4. Fixed stock & blow back version parts list

GR16F-01	Flash suppressor set
GR16F-02	Front sight set
GR16F-03	Handguard front fixed ring
GR16F-04	Outer barrel set
GR16F-05	Piston rod
GR16F-06	Handguard set
GR16F-07	Rear sight set
GR16F-08	Slip ring
GR16F-09	Upper receiver set
GR16F-10	Motor set
GR16F-11	Grip bottom set
GR16F-12	Selector plate
GR16F-13	Inner barrel
GR16F-14	Hop-up rubber set
GR16F-15	Hop-up set
GR16F-16	Blow back version port cover set
GR16F-17	Assist knob set
GR16F-18	Grip
GR16F-19	Selector lever set
GR16F-20	Blow back version gear box set
GR16F-21	Magazine catch set
GR16F-22	Bolt catch set
GR16F-23	Front frame lock pin set
GR16F-24	Trigger guard set
GR16F-25	Rear frame lock pin set
GR16F-26	Lower receiver
GR16F-27	Fixed stock
GR16F-28	Charging handle
GR16F-29	Magazine
GR16F-30	Charging upper cover
GR16F-31	Blow back version charging plate







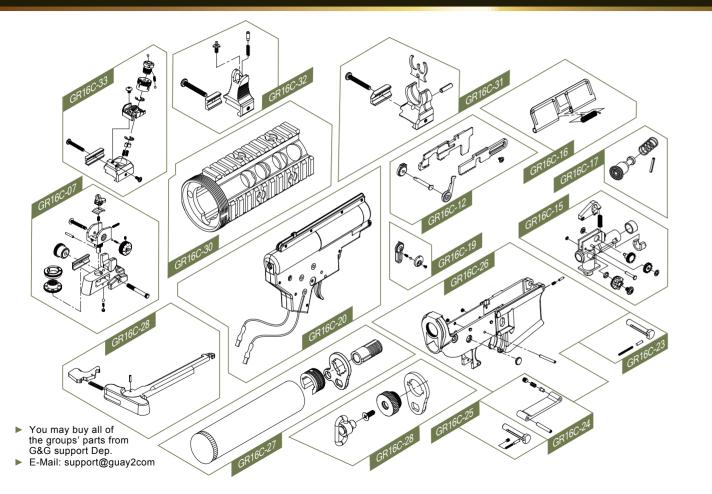


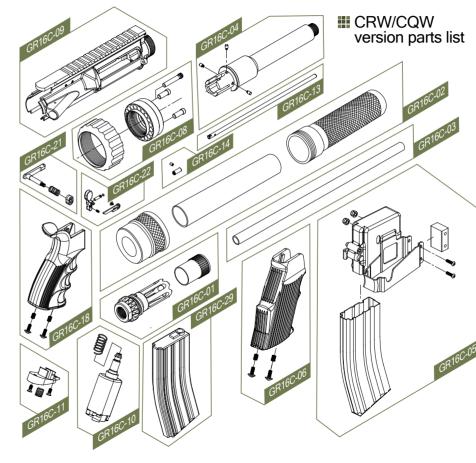
GR16F-01	Flash suppressor set
GR16F-02	Front sight set
GR16F-03	Rail system front fixed ring
GR16F-04	Outer barrel set
GR16F-05	Piston rod
GR16F-06	Rail system set
GR16F-07	Detachable carring handle
GR16F-08	Slip ring
GR16F-09	Upper receiver set
GR16F-10	Motor set
GR16F-11	Grip bottom set
GR16F-12	Extended battery stock
GR16F-13	Selector plate
GR16F-14	Inner barrel
GR16F-15	Hop-up rubber set
GR16F-16	Hop-up set
GR16F-17	Port cover set
GR16F-18	Assist knob set
GR16F-19	Grip
GR16F-20	Selector lever set
GR16F-21	Gear box set
GR16F-22	Magazine catch set
GR16F-23	Bolt catch set
GR16F-24	Front frame lock pin set
GR16F-25	Trigger guard set
GR16F-26	Rear frame lock pin set
GR16F-27	Lower receiver
GR16F-28	Charging handle
GR16F-29	Extended battery stock set
GR16F-30	Magazine
GR16F-31	G4 sopmod tactical stock
GR16F-32	Assault type flash suppressor
GR16F-33	G4 mock sound suppressor











GR16/G4. CRW/CQW version parts list

GR16C-01	CQW/CRW flash suppressor set
GR16C-02	Cannon mock suppressor set
GR16C-03	Viper mock suppressor set
GR16C-04	Outer barrel set
GR16C-05	Ready Magazine set
GR16C-06	CQW grip
GR16C-07	CQW/CRW rear sight set
GR16C-08	Slip ring
GR16C-09	Upper receiver set
GR16C-10	Motor set
GR16C-11	Grip bottom set
GR16C-12	Selector plate
GR16C-13	Inner barrel
GR16C-14	Hop-up rubber set
GR16C-15	Hop-up set
GR16C-16	Port cover set
GR16C-17	Assist knob set
GR16C-18	CRW/Cannon/Viper Grip
GR16C-19	Selector lever set
GR16C-20	Gear box set
GR16C-21	Magazine catch set
GR16C-22	Bolt catch set
GR16C-23	Front frame lock pin set
GR16C-24	Trigger guard set
GR16C-25	Rear frame lock pin set
GR16C-26	Lower receiver
GR16C-27	CRW Cannon/Viper stock
GR16C-28	Q.D. Sling swivel
GR16C-29	Magazine
GR16C-30	Rail system(short)
GR16C-31	CRW/Cannon/Viper front sight
GR16C-32	CQW front sight
GR16C-33	Cannon/Viper rear sight set