



SGP-QCB 5.56MM Semi Automatic

(available in multiple calibers)

Information Manual

Version 1.0

One Great Company– Another Superb Product

The AR15/M16 series of rifles are as varied in function as they are in manufacturer. This being the case- almost all companies with a market share lay claim to an innovation that is said to improve function and reliability. It's usually through word of mouth and trial and error that usually weed out the "wannabes" from well experienced and often quiet professionals that build a product knowing that some day your life may depend on it. It must function when called into action.



***Accessories such as the forward pistol grip, optics, folding back-up sights are not included.**

Gas Piston with a twist- TNW Firearms Inc. has taken the new focus on Gas Piston System (GPS) Quick Change Barrel (QCB) for the AR series of rifles to a new level. They've designed a component system with interchangeable barrels! That's right- go from a short barreled entry weapon to a long range sniper system in seconds.



Cleaning our Gas Piston System takes very little time and reduces chamber fouling to an absolute minimum. Most of the gases are expelled out of the gas piston under the hand guards.

**FIREARMS ARE DANGEROUS WEAPONS
READ THE INSTRUCTIONS AND WARNINGS
IN THIS MANUAL THOROUGHLY AND
CAREFULLY BEFORE USING.**

Inside this Information Manual

Safety and Warnings

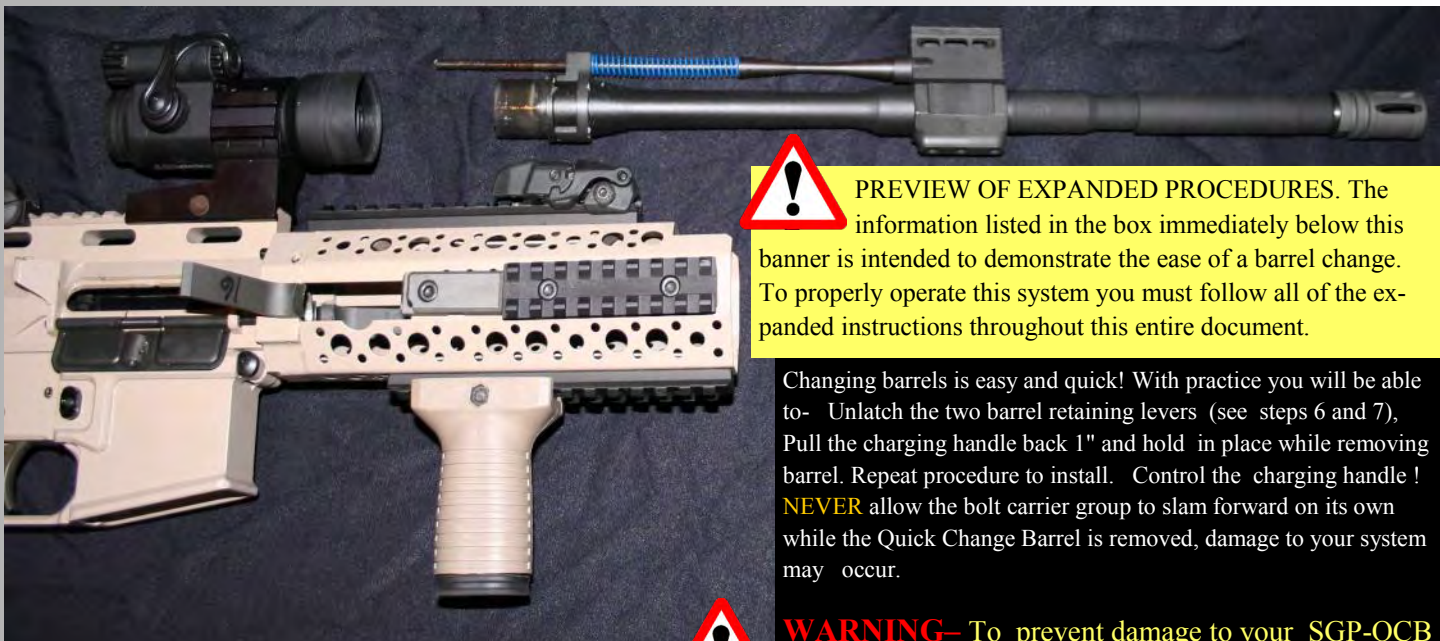
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Try our SGP with your favorite legal suppressor.



! PREVIEW OF EXPANDED PROCEDURES. The information listed in the box immediately below this banner is intended to demonstrate the ease of a barrel change. To properly operate this system you must follow all of the expanded instructions throughout this entire document.

Changing barrels is easy and quick! With practice you will be able to- Unlatch the two barrel retaining levers (see steps 6 and 7), Pull the charging handle back 1" and hold in place while removing barrel. Repeat procedure to install. Control the charging handle ! **NEVER** allow the bolt carrier group to slam forward on its own while the Quick Change Barrel is removed, damage to your system may occur.

! WARNING-- To prevent damage to your SGP-QCB **Never** lock carrier to rear when barrel is out of the gun .

*Accessories such as the forward pistol grip, optics, folding back-up sights are not included.

* Please read the following warnings, cautions and notes.



Safety – It's Your Responsibility

SAFETY MUST BE THE FIRST AND CONSTANT CONSIDERATION OF EVERY PERSON WHO HANDLES FIREARMS AND AMMUNITION. (The terms His, Him, Her, Hers, or She are interchangeable with regards to this informational manual.)

This information manual is designed to assist you in learning how to use and care for this system properly. Only when you are certain you fully understand the manual and can properly carry out its instructions should you practice loading, unloading, etc. with live ammunition in a safe area that eliminates the possible injury or death of a bystander or system operator. This manual will not teach you how to shoot, nor will it teach you safe handling practices, it only offers suggestions as to how you can safely handle this product until you can take an approved safety course.

If you have doubts about your ability to handle or use this particular system safely, then you should seek supervised instruction. Such personalized instruction is often available from gun dealers, gun clubs or police departments. If none of these sources can help you contact the National Rifle Association.

The person with a gun in his possession has a full-time job. He cannot guess; he cannot forget. He must know how to use his firearm safely. Do not use any firearm without having a complete understanding of its particular characteristics and safe use. Remember: There is NO such thing as a foolproof gun.

This Information Manual is Designed for Color Printing and Viewing Please Contact Us If You Have Special Needs and Require an Adjusted Black and White Copy.



Before Using Your SGP-QCB You Must Adhere to the Following Basic Safety Principles

- A loaded firearm has the potential to kill. Intelligently and respectfully handled it is safe.
- An accident is always the result of basic safety rules neglect.
- Accident prevention is user responsibility.
- Never point a firearm at anything you don't want to shoot.
- Before handling a firearm be sure to use correct and undamaged ammunition.
- Be sure your firearm is clean – before loading inspect the barrel to ensure it is perfectly clean and free of debris and any obstructions. Shooting with an obstruction in the barrel such as dirt, mud, grease, lodged bullet or jacket residues, etc, can cause barrel bulging and/or rupture.
- Never assume that the chamber is empty, visually inspect it every time you handle the gun.
- Avoid alcoholic beverages or drugs before and during shooting.
- Always wear ANSI approved Safety Glasses or Safety Goggles.
- Store firearms and ammunition separately, beyond the reach of children and persons of diminished capacity.

Let's get started...



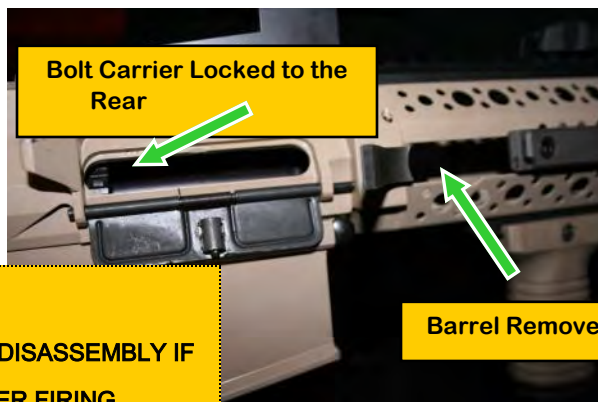


WARNING! READ THIS SPECIAL NOTE BEFORE YOU BEGIN

Step 1

Point the weapon in a safe direction. Ensure the magazine is removed, unload the firearm and place the weapon in the "Safe" position.

When removing/changing the gas piston system quick change barrel always keep your body positioned out of the way of the path of the barrel. In other words if you are properly removing the barrel after making the weapon absolutely safe you do not want to injure yourself by pulling the barrel free of the upper receiver and striking yourself. Do not allow the bolt carrier group to SLAM forward after the barrel has been removed from the upper receiver!



ALLOW THE WEAPON TO COOL BEFORE DISASSEMBLY IF PERFORMING THIS PROCEDURE AFTER FIRING.

Step 2

Remove any magazine from the firearm—Point the weapon in a safe direction that will prevent injury. Clear the weapon.

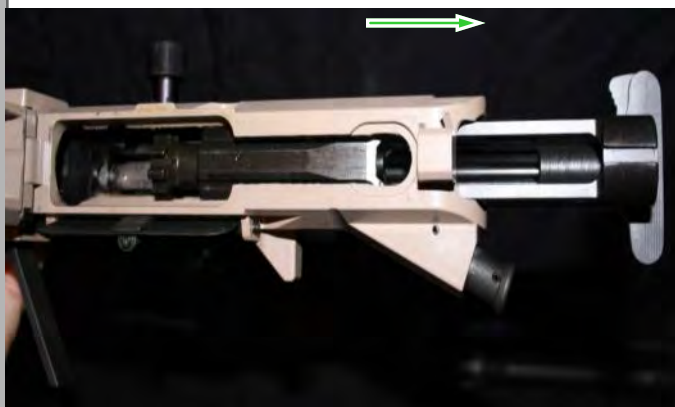
Ensure the bolt carrier is forward. Push or tap out the rear takedown pin and rotate the upper receiver forward.



Step 3

Warning! Wear ANSI approved eye protection to prevent injury.

Turn the SGP-QCB upside down with the charging handle parallel to the floor. Slide the charging handle 3/4 of the way out of the upper receiver. Remove the bolt carrier group. Slide the charging handle out of the upper receiver. You must align the bell portion of the charging handle with the cutout in the upper receiver to remove it.



Step 4

To reduce the possibility of disassembling an unsteady weapon, after removing the bolt carrier for cleaning close the upper receiver. This will reduce the possibility of a pinching or other injury.

Remove the firing pin retaining pin. →



Remove the firing pin. →

**TIPS**

- Placing your smaller parts in a container will prevent a few headaches and choice words later.
- Keep several dry rags around for cleaning, gripping and protection from dents and scratches.

Step 5

Remove the cam pin. →



Remove the bolt from the carrier. →

**Step 6**

Using an appropriate sized tool, depress the barrel retaining latch lock (push toward the front of the barrel). There is a cutout in the locking portion for the tip of the tool.



Push in the direction of the end of the barrel.

Step 7

Once the lock is depressed. Lift up and rotate the hinge back towards the receiver.



Repeat the process on the opposite side. Your barrel is ready for removal.

Notice the bolt and carrier is removed for ease of disassembly and reassembly.

**TIPS**

- Remember! If you are having to force a piece or part back together it's time to step back and take a breather. Then tackle the project again.
- Some of the modern super bore cleaners and blasters will ruin a finish and also do a number on your jewelry or eye-glasses.

WARNING!

Before pulling the gas piston quick change barrel out of the upper receiver make sure that you are not directly in the path of the barrel when it slips free to prevent injury to yourself or others.

WARNING!

AFTER SHOOTING THE BARRELS ARE **EXTREMELY HOT** AND CAN SEVERELY BURN YOU! DO NOT PLACE HOT BARRELS NEAR A FUEL SOURCE OR OTHER COMBUSTIBLE MATERIAL.

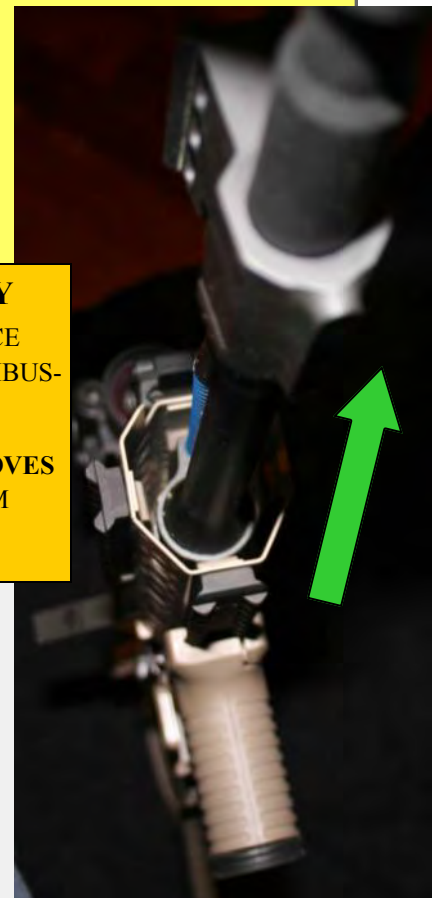
ALWAYS WEAR FLAME AND HEAT RESISTANT GLOVES WHEN CHANGING OUT HOT BARRELS OR LET THEM COOL BEFORE HANDLING.

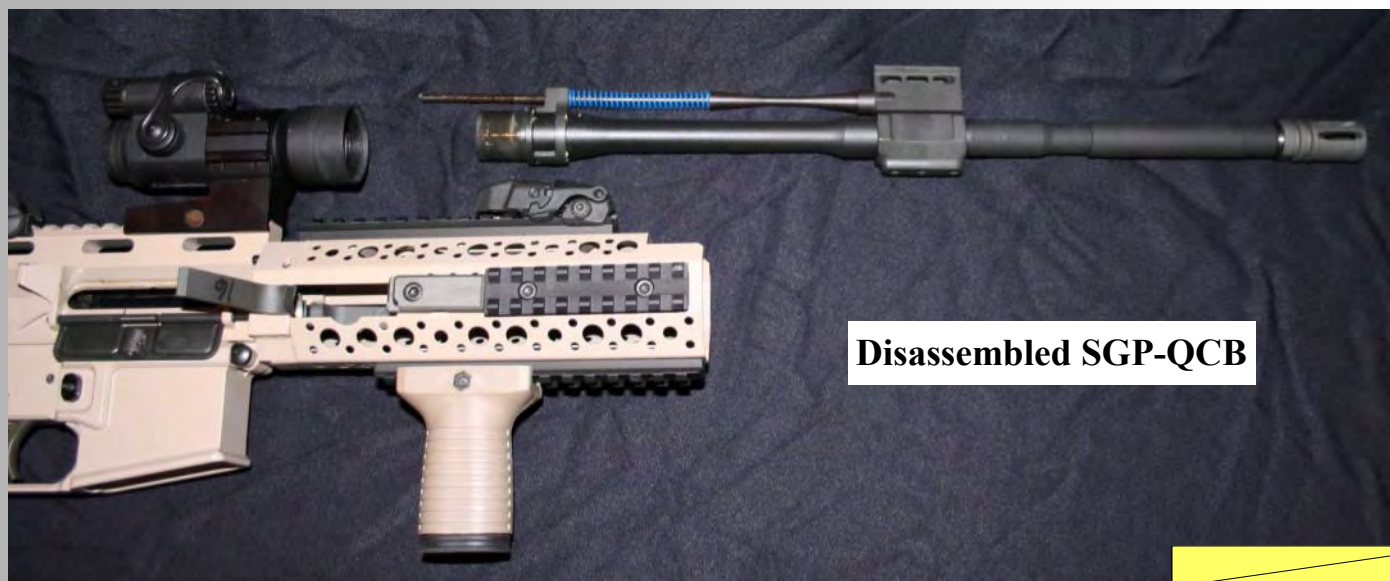
NOTE:

Pull straight up.

It may be necessary to twist back and forth to ease removal.

It is not necessary to remove the gas piston spring and push rod during cleaning. Use any commercial gun cleaning solvent and soft bristle brush to clean.



**Disassembled SGP-QCB**

Reassembly is performed by reversing the instructions. Below you'll find a few tips to streamline the process.

TIPS

- If you get stuck at a point just jump on the internet and YouTube TNW to see more data.
- Surplus 5.56 ammunition works extremely well in this firearm.
- Always wear hearing protection.

WARNING! READ THIS SPECIAL NOTE BEFORE YOU BEGIN

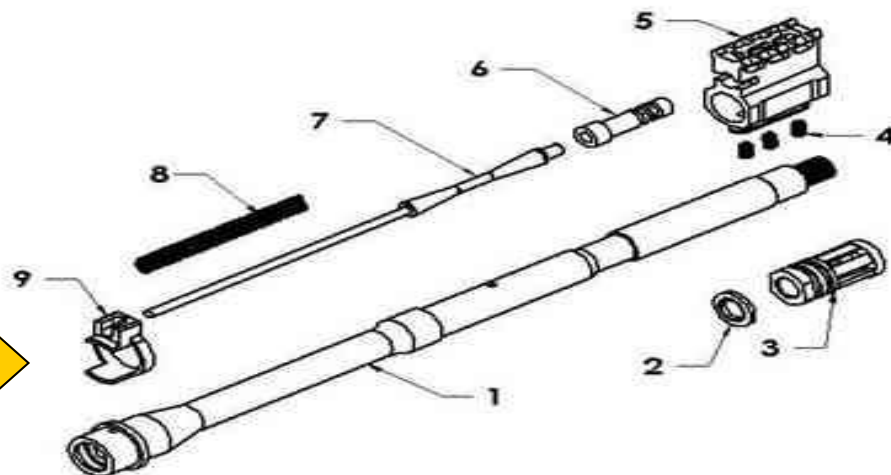
DO NOT ALLOW THE BOLT CARRIER GROUP TO SLAM FORWARD WITHOUT THE BARREL INSTALLED. IT WILL DAMAGE THE CARRIER GROUP AND THE UPPER RECEIVER.



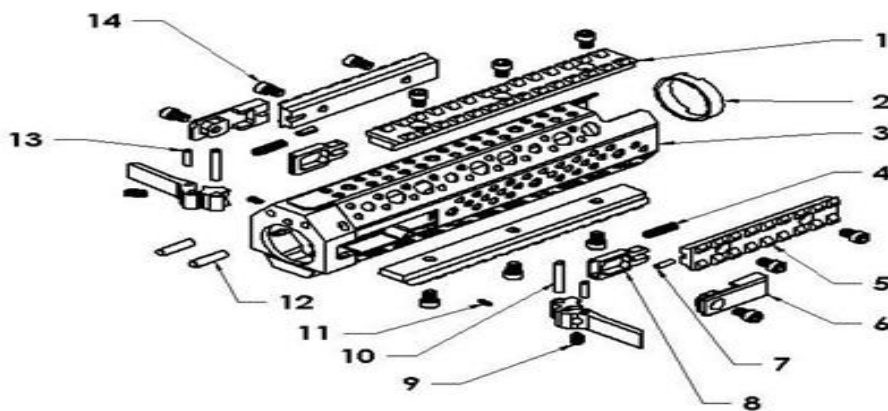
When reassembling the barrel to the receiver ensure it is completely seated before depressing the retaining/locking hinge lever.

Rotate the retaining hinge down and under the hinge lock. Make sure you apply enough pressure to allow the lock to slide out over the hinge. It should look like the picture above.

**SGP15A QCB16 Barrel
Exploded View**

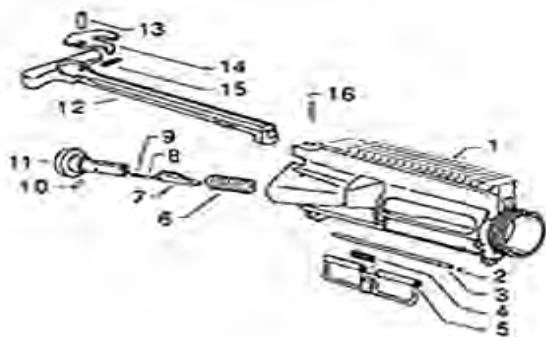


Item	Part number	Qty	Name
1	SGP15A37	1	Barrel, QCB M4
2	SGP15A105	1	washer
3	SGP15A106	1	Flash Hider
4	SGP15A107	3	set screw dog point
5	SGP15A18	1	Cylinder Block, Tall
6	AR15A13	1	Piston
7	SGP15A21	1	Op Rod
8	AR15A114	1	Spring, 3"
9	SGP15A36	1	Spring Stand



**SGP15A QCB parts
Exploded View**

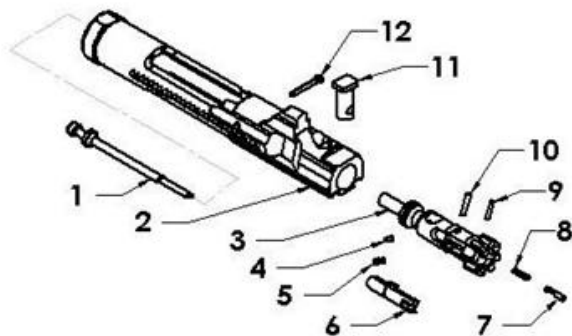
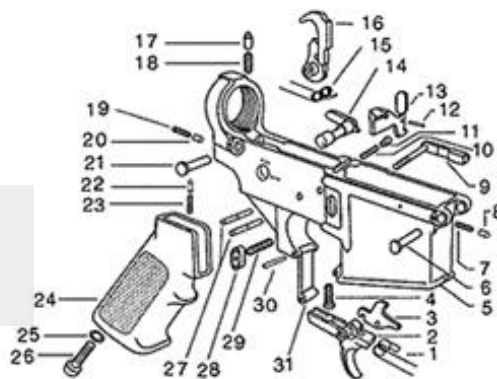
Item	Part number	Qty	Name
1	SGP15A37	2	Rail, 3 Hole
2	SGP15A35	1	Ring Nut
3	SGP15A30	1	Fore Base
4	SGP15A47	2	Catch Spring
5	SGP15A41	2	Rail by Catch
6	SGP15A40	2	Catch Haus
7	SGP15A101	2	1/8" x 3/8 Dowel Pin
8	SGP15A38	2	Catch
9	SGP15A102	2	#10-32 x 3/8" Set screw
10	SGP15A39	2	Pivot
11	SGP15A48	2	Pin Clip
12	SGP15A103	2	3/16" x 3/4" Dowel pin
13	SGP15A46	2	Lock Pin
14	SGP15A104	12	#10-32 x 5/16 S.H.C. Screw



**SGP15B FT parts
Exploded View**

Item	Part number	Name
1	SGP15B17	Upper Receiver, Tall
2	SGP15B101	Pin Retaining Ring
3	SGP15B102	Ejection Port Cover Pin
4	SGP15B103	Ejection Port Cover Spring
5	SGP15B104	Ejection Port Cover
6	SGP15B105	Fwd Assist Spring
7	SGP15B106	Fwd Assist Pawl
8	SGP15B108	Pawl Detent
9	SGP15B109	Pawl Spring
10	SGP15B110	Pawl Spring Pin
11	SGP15B112	Forward Assist Button
12	SGP15B113	Charging Handle
13	SGP15B114	Charging Handle Latch Roll Pin
14	SGP15B115	Charging Handle Latch
15	SGP15B116	Charging Handle Latch Spring
16	SGP15B120	Forward Assist Spring Pin

**SGP15B FT parts
Exploded View**



Item	Part number	Name
1	SGP15D13	Firing Pin
2	SGP15D11	Bolt Carrier, solid key
3	SGP15D12	Bolt
4	SGP15D17	Extractor Spring Insert
5	SGP15D101	Extractor Spring
6	SGP15D16	Extractor
7	SGP15D15	Ejector
8	SGP15D103	Ejector Spring
9	SGP15D104	Ejector Pin
10	SGP15D105	Extractor Pin
11	SGP15D14	Cam Pin
12	SGP15D108	Firing Pin Retaining Pin

**SGP15D parts2
Exploded View**

Item	Part number	Name
1	SGP15C111	Trigger Spring
2	SGP15C112	Trigger, Standard
3	SGP15C113	Disconnecter
4	SGP15C114	Disconnecter Spring
5	SGP15C11	Lower Receiver, Billet
6	SGP15C115	Pivot Pin
7	SGP15C116	Pivot pin Spring
8	SGP15C117	Pivot Pin Detent
9	SGP15C118	Magazine Catch
10	SGP15C119	Bolt Catch Spring
11	SGP15C120	Bolt Catch Plunger
12	SGP15C121	Bolt Catch Roll Pin
13	SGP15C122	Bolt Catch
14	SGP15C123	Safety Selector Lever, standard
15	SGP15C128	Hammer Spring
16	SGP15C129	Hammer
17	SGP15C130	Buffer Retainer
18	SGP15C131	Buffer Retainer Spring
19	SGP15C132	Takedown Pin Spring
20	SGP15C133	Takedown Pin Detent
21	SGP15C134	Takedown Pin
22	SGP15C135	Safety Detent
23	SGP15C136	Safety Detent Spring
24	SGP15C137	Pistol Grip
25	SGP15C138	Lack Warber
26	SGP15C139	Pistol Grip Screw
27	SGP15C148	Hammer and Trigger pin (2 req'd)
28	SGP15C149	Magazine Release Button
29	SGP15C150	Magazine Catch Spring
30	SGP15C151	Trigger Guard Pivot Roll Pin
31	SGP15C152	Trigger Guard



A few of our other products...

Visit our demo of the system on the internet at:

http://www.youtube.com/watch?v=JdxH_pS4XWY

**NEW SGP-QCB IN
COYOTE TAN**

**This is our hottest
item. Pre-Order
yours today!**



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