

Military Weapons



PROGRAM

COLT'S M16 RIFLE SYSTEM

18, June, 1968

M16步槍表演節目表

1. Introduction: The M16 Rifle will be shown, and a general description will be given on how the rifle operates, the material used in the major parts will also be described.
簡介
2. Two magazines (40 rds.) will be fired from the M16 Rifle to illustrate the ease of firing and lack of recoil.
半自動及全自動射擊40發，以示操作容易後座力小。
3. Firing will be done from the shoulder, from hip position, and firing one hand. The rifle will also be shot with the butt of the rifle resting against the firer's chin. 40 rounds will be fired in this phase of the demonstration.
以槍托抵住下顎以行射擊等方法射擊四十發，以示後座力極度輕微。
4. A field stripping demonstration will be given, showing how the rifle can be assembled and disassembled for cleaning.
裝拆表演
5. The Commando Sub-Machine Gun (U. S. Mod. XM177) will be shown, and the difference to the M16 explained. 2 magazines (40 rds.) will then be fired to show the ease with which it can be fired.
突擊衝鋒槍射擊四十發。
6. The Heavy Barrel Automatic Rifle will be shown, and its characteristics explained. 2 magazines (40 rds.) will then be fired to show the rifle's operation.
重自動步槍射擊四十發。
7. M16 accessories will be shown. This will include the bipod, bayonet, and rifle grenades. A rifle grenade will be fired.
槍榴彈射擊練習彈一發，射距離150公尺。
8. The 40mm Grenade Launching Attachment will be shown (U. S. Mod. XM148). The operation of the launcher will be described, and then 2 rounds will be fired.
40公厘擲彈筒射擊練習彈兩發，射距離200公尺。
9. The shocking power of the M16 Rifle will be illustrated by shooting at several watermelons and cans filled with water.
M16步槍衝擊力表演(對西瓜及水桶射擊)
10. The penetrating power of the M16 Rifle will be shown by firing at a brick wall 4 ft. high x 4 ft. long.
M16步槍射擊表演(對磚牆)
11. The accuracy of the M16 Rifle will be shown by firing at a target 100 meters away. 40 rounds will be fired.
M16步槍100公尺精密射擊四十發。
12. The ability of the M16 Rifle to operate under adverse conditions will be shown by the following tests.
惡劣狀況下射擊。
 - A. Water Test: The rifle will be completely submerged in water. The water will then be shaken out, and the rifle fired 2 magazines (40 rds.) to show that water does not affect the operation of the weapon.
浸水測驗
 - B. Sand Test: The rifle will be loaded and the muzzle covered. The rifle will then be completely buried in dirt. The rifle will then be removed from the dirt, and without cleaning will be fired 2 magazines (40 rds.)
泥土測驗
13. Guests will then be invited to fire the various weapons, so that they personally evaluate their merits.
請來賓親自試射而予證實。

Demonstration Given By: Mr. William O'Hara, COLT'S Foreign Manager

表演主持人：柯爾特國外部經理奧哈拉

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DEMONSTRATION BRIEFING

Gentlemen:

It is indeed a pleasure to have you here with us today. During the next 20 minutes, we will show you the M16 weapon system, how it operates, how well it performs, and most important - what it can do for you in terms of effectiveness, ease of training, and low maintenance cost.

The M16 is a gas-operated, air-cooled, magazine-fed rifle. It is capable of both semi and full automatic fire.

The M16 is 5.56 mm, or .22 caliber. It fires a 55 grain bullet at 3250 feet per second. This gives it a striking energy of 1300 ft/lbs. The rifle weighs 6.5 pounds, the ammunition 3 pounds per hundred rounds. This combination results in a lightweight, fast firing weapon which is easy to fire and yet has ample power to handle most military situations.

Notice the ease with which this weapon is fired, even with one hand. This is because of the low recoil of the cartridge, coupled with the straight line design. The center of the bore passes right through the buttplate, minimizing the tendency of the weapon to rise.

Our latest addition to the M16 family is the Commando Submachine Gun. It uses the same receiver, uses the same basic moving parts, uses the same magazine, and fires the same ammunition. The basic difference is in the barrel, which is 11.5" long instead of 20", and the buttstock which is made of aluminum and can slide forward to a stowed position when not needed.

While we call this a Submachine Gun, it is really much more since it combines the fast action capability of the submachine gun with the long range accuracy and effectiveness of a rifle. This weapon is as effective, both in accuracy and power, at 300 yards, as the normal submachine gun is at 50 yards.

To complete our weapon system, we have a bipod mounted heavy barrel version of the M16 Rifle. This weapon will provide the backup fire normally handled by a squad automatic weapon, yet it is light enough to be used as a rifle as well.

This weapon is capable of a sustained fire rate of 40 rounds per minute. From the bipod position, an experienced man can keep all shots in the block of

the standard "A" target, while firing full automatic. This is because there is fast locktime and no bolt jolting, due to its firing from a closed bolt.

The M16 Rifle is capable of firing any rifle grenade with a .22 mm tail piece. This includes all grenades in the U. S. Arsenal and all NATO grenades. The M16 does this without the need of a grenade launching adaptor. The grenade is simply slipped over the barrel, a grenade launcher cartridge inserted, and the grenade is ready for launching.

Grenades will be propelled from 150-250 yards, depending upon their weight and shape. You will notice that the cartridge ejected. It is possible to magazine feed the cartridges. Using the rifle as a mortar, a two-man team can keep up a rapid rate of fire.

SHOCK POWER.....(CANS FULL OF WATER, WATERMELONS, COCONUTS, CEMENT BLOCK WALL)

We show you these things not to illustrate that the 5.56 cartridge is more powerful than the larger .30 caliber weapons, but that it is adequately powerful to do the job. It will do the job, and at the same time give your soldiers greater fire power, longer sustained fighting power-whatever the situation may be.

I now invite you to try these weapons. We will have all these types available and plenty of ammunition. I will also be available to answer any questions you may have. Thank you.

報 告 詞

各位先生：

此次M16步槍性能示範，蒙各位長官光臨，感到十分榮幸。在這二十分鐘示範表演當中，我們將向各位介紹M16之操作與功能。使各位明瞭這種武器效果良好，訓練容易，而且保養費用也特別少。

M16步槍是氣體作用的自動步槍，槍管是用空氣散熱冷卻，用彈匣裝填子彈，能夠作半自動或全自動射擊的步槍。

M16步槍之口徑為5.56公厘(0.22吋)，初速為3,250呎/秒，子彈有1,300呎/磅之衝擊力，步槍全重為6.5磅，每一百發子彈重約三磅，這種步槍很輕，發射速度快，使用容易，所以在各種戰鬥中都能發揮最大威力。

這種步槍射擊操作很容易，甚至用一隻手也可射擊。因為它的後坐力很小，而且槍身，自動部份，槍管中心線，經由槍托底板成直線設計，如此可減少武器射擊時跳動之弊。

再介紹與M16步槍相似的突擊衝鋒槍，這種槍之自動部份與M16自動步槍完全一樣，使用同樣子彈、彈匣。所不同的是槍管較短，祇有11.5吋長，M16槍管長為20吋，突擊衝鋒槍托板是鋁製的，可以伸縮，不用時可以向前推進去。這種槍發射速度快，而且也很準確，這種槍在300碼距離的效果與其他一般衝鋒槍50碼之效果一樣。

我們還有一種帶腳架的重管自動步槍，雖然這種槍輕得可以像其他步槍一樣使用。可用作班一般之自動火力支援。

這種武器持續之發射速度為每分鐘四十發(最大速度850發)，因為槍身活動部份沒有搖動現象。所以一位老練的射手使用腳架作完全自動射擊時，可使所有子彈都命中標準「A」靶。

M16步槍發射所有美國兵工廠造的，與北大西洋組織國家所造各種槍榴彈。M16自動步槍不需再另加發射連接裝置，就可直接將槍榴彈放在槍管上，裝妥槍榴彈擲射子彈發射槍榴彈。

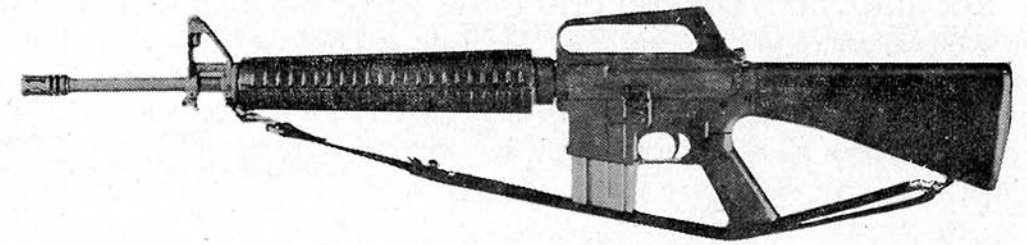
因槍榴彈之重量與形狀槍榴彈可投擲至150碼-250碼之距離，也可以用彈匣裝填擲射子彈。如以兩人操作發射槍榴彈，以此槍作為迫擊砲之用途，可保持迅速之發射率。

破壞力……(對裝滿水桶，水泥磚牆射擊)

我們對各位作這些表演，並非是說明0.22口徑槍彈較0.30口徑武器威力為大，而是說明0.22子彈在完成任務方面較為適當，不論任何狀況，M16步槍能使士兵有較大的火力，和較持久的戰鬥力。

我們現有此等各式武器，也有足夠的彈藥，請各位來試射。各位如有問題，請提出來我們可以答覆各位，謝謝各位。

M16 RIFLE 步 槍



Description and Purpose 性能說明

The M16 Rifle is a gas operated, air cooled, magazine fed, semi-automatic or fully automatic shoulder weapon. It feeds from a 20-round or 30-round aluminum magazine. The M16 is designed for use as a standard military rifle for all services and is being issued to all troops in Viet Nam. It is the lightest military rifle in production in the world. It features a simple gas system and an advanced locking system, straight line construction, light weight, and extremely simple maintenance.

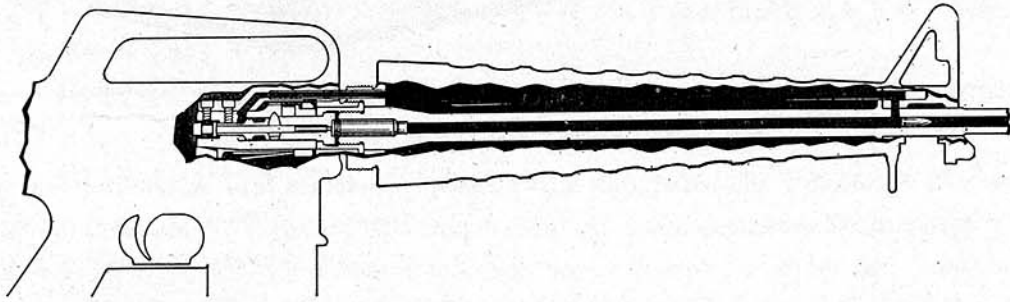
M16步槍係由氣體作用自動。槍管係空氣冷卻，用彈匣裝填，能半自動，全自動，口徑為5.56公厘之肩用武器。為美國陸軍之制式步槍，正使用於越南戰場，為目前使用之步槍中為最輕者。氣體自動部份簡單，緊鎖優良，直線結構，重量輕，保養簡單。

Characteristics 諸 元

Caliber 口徑	.223	5.56 mm.
Overall length 全長	38.6"	980 mm.
Barrel length 槍管長	20"	507 mm.
Height 高度	8.8"	223 mm.
Rifling 來複線	Button	—
Pitch 經度	1 in 12	305 mm.
Number of grooves 膛線	6	—
Weight (without magazine) 重量(無彈匣)	6.5 lbs.	2.94 kg.
Weight of bipod 腳架重	.5 lbs.	.22 kg.
Weight of 20 round magazine full 20發彈匣裝滿全重	.71 lbs.	.32 kg.
Weight of 30 round magazine full 30發彈匣裝滿全重	1.0 lbs.	.46 kg.
Muzzle velocity 初速	3250 ft./sec.	990 m/s
Muzzle energy 衝力	1285 ft.-lbs.	178 m. kg.
Rate of fire 射擊速度	650-850 R.P.M.	—
Safety 保險裝置	Rotary-Blocks Trgger	—

ADVANTAGES 優點

STRAIGHT LINE CONSTRUCTION—The barrel, bolt, recoil buffer unit and stock are assembled in a straight line. The light recoil of the 5.56 mm cartridge is carried straight back to the shoulder, and vertical dispersion or barrel climb is virtually non-existent even in full automatic fire. Recoil and noise are relatively low, and trainees learn to shoot quickly and with high scores.

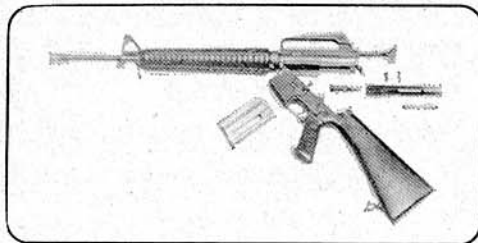


直線結構——槍管、槍機、後退器與槍托均裝在一直線上。5.56公厘口徑子彈之輕度後坐力，係直向後方肩部。因此，甚至在全自動射擊時，也沒有垂直散佈和槍管向上跳動之現象。後坐與噪音都很小，新兵學習射擊容易迅速，並能獲得優良成績。

UNIQUE GAS OPERATING SYSTEM—The bolt and bolt carrier form a piston and cylinder activated by gas, fed back from a port near the muzzle. This eliminates the weight and complexity of the conventional operating rod. The bolt locks directly to the barrel, and the full force developed at maximum chamber pressure is contained between these two parts. The receiver is not a part of the locking system and can be made of lightweight aluminum alloy. These advanced design features permit exceptionally light weapons.

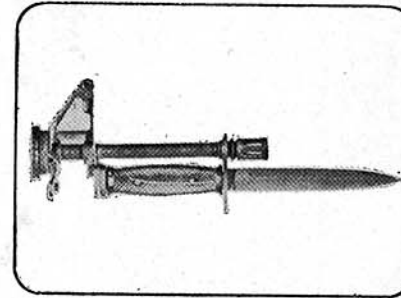
特別的氣體自動作用——槍口附近排出氣體向後，使槍機部份作活塞作用。此種作用減少一般操縱桿之重量與複雜性。槍機直接與槍管緊鎖。藥腔產生之最大膛壓則在此兩部份之間。承受器不屬於緊鎖部份，可用輕的鋁合金製造，此等進步設計使武器重量大為減少。

SIMPLICITY OF MAINTENANCE AND OPERATION—The point of a bullet is the only tool required for routine disassembly for field maintenance. Detail disassembly can be accomplished using the firing pin as a tool. All parts are designed to preclude incorrect assembly. Operating controls are logically located for maximum ease of operation. Training time for familiarization is reduced substantially as a result of the simplicity and limited number of working parts of Colt's M16 Rifle.



操作保養簡單——祇需用子彈之尖端就可以做野戰保養日常之拆卸工作。細部拆卸工作，可用撞針作工具來完成。所有零件經設計絕不會錯誤裝配，操作控制各位置配置適當，控制操作容易，機件簡單可縮短訓練時間。

EQUIPMENT 配附件



BAYONET—The knife-type bayonet slips over the flash suppressor and locks on the bayonet lug. The bayonet is easily affixed and removed.

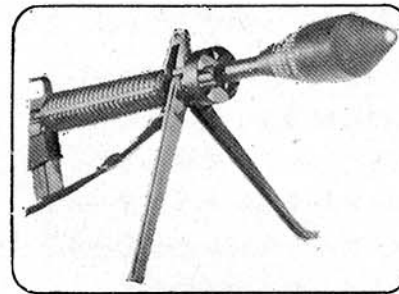
刺刀——刀狀刺刀係套在防火帽上，裝在刺刀座上。刺刀裝上及卸下十分容易。



SCOPE—An integral mount for a 3X scope sight is provided in the carrying handle. The scope can be attached in a few seconds without the use of tools.

瞄準鏡——三倍瞄準鏡係裝在提把上，不必使用工具即可將瞄準鏡在數秒以內安裝在提把上。

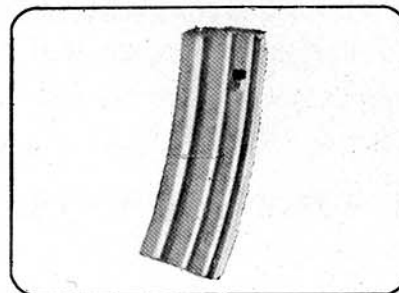
RIFLE GRENADE LAUNCHER—The grenade launcher/flash suppressor, standard on every basic rifle, will accommodate Energa and current standard U.S. military rifle grenades without supplementary attachments. It will also launch current standard U.S. military hand grenades with the appropriate adaptor.



槍榴彈發射器——標準槍榴彈發射器與防火帽，可不用其他輔助附件，即可發射美國現用之槍榴彈，此項發射器如加適當連結器，也可發射美國制式手榴彈。

BIPOD—An easily attached/removed aluminum bipod provides stability for prone automatic or semi-automatic fire.

腳架——鋁製腳架裝卸容易，射擊時可增進其穩定性。



30 ROUND MAGAZINE—The 30 round magazine increases the combat readiness of the infantryman by 50 per cent. It also provides greater sustained firepower under all conditions.

三十發彈匣——三十發彈匣可增進步兵戰備程度百分之五十，並可有較大的持續火力。

MILITARY WEAPONS IN THE M16 RIFLE FAMILY

M16 配合武器

The Commando Submachine Gun and the Heavy Barrel Automatic Rifle (HBAR) are based on the M16 Rifle which has proven its military effectiveness, reliability and versatility so well in combat. A variety of alternate configurations have been developed to meet the current requirements for shoulder weapons of infantry, armored, airborne and all other special forces.

由於M16步槍已於戰場上證實其效能優良，可靠確實及其多種性能。經發展研究，改進其結構及外形而創造突擊衝鋒槍及重自動步槍，以適應步兵、裝甲兵、空降及其他特種部隊所需之肩用式武器。

The 40 mm Grenade Launcher is designed to be used together with the M16 Rifle to launch highly effective 40 mm HE grenade. Using the rifle as a mortar, it greatly increases its shock power as well as its killing power.

40 mm擲彈筒係使能適用於M16步槍而設計，可發射40 mm高爆榴彈，使此步槍能作迫擊砲之用途，以增強其震駭力及殺傷力。

COMMANDO SUBMACHINE GUN

突擊衝鋒槍



Description and Purpose 性能說明

The Commando is designed for use by tankers, helicopter crewmen, pilots, or others who work where space is limited. The Commando is also ideally suited for use in place of a pistol by personnel operating crew-served weapons. It has the compact size of a conventional submachine gun, but it weighs less and has an effective range of 300 meters. The Commando uses the same ammunition as the M16 Rifle and employs the same basic components. The telescopic butt stock increases its compact length from 28.3 inches to 31.0 inches for use in standard sighting position.

突擊衝鋒槍係為戰車兵，直昇機部隊，駕駛或有限空間活動之人員所設計。多人操作武器之人員亦可以此替代手槍。其具有一般衝鋒槍之外形體積，但其重量較輕而具有三百公尺之有效距離。突擊衝鋒槍與M16步槍使用同一種子彈，其托底板可由28.3吋延伸至31.0吋以適應正常瞄準。

Characteristics 諸元

Caliber 口徑	.223	5.56 mm.
Overall length (butt stock closed) 槍托收縮時全長	28.3"	719 mm.
Overall length (butt stock extended) 槍托延伸時全長	31.0"	787 mm.
Barrel length 槍管長	10"	254 mm.
Height (without magazine) 高度	8.8"	223 mm.
Rifling 來復線	Button	—
Pitch 纏度	1 in 12	305 mm.
Number of grooves 膛線	6	—
Weight (without magazine) 未帶彈匣時全重	5.5 lbs.	2.50 kg.
Weight of 20 round magazine full 20發彈匣裝滿時全重	.71 lbs.	.32 kg.
Weight of 30 round magazine full 30發彈匣裝滿時全重	1.0 lbs.	.46 kg.
Muzzle velocity 初速	2750 ft./sec.	838 m/s
Muzzle energy 衝力	923 ft.-lbs.	129 m. kg.
Rate of fire 射擊速度	650-850 R.P.M.	—
Safety 安全裝置	Rotary-Blocks Trigger	—

HEAVY BARREL AUTOMATIC RIFLE

(HBAR) 重自動步槍



Description and Purpose 性能說明

The Heavy Barrel Automatic Rifle is identical to the M16 Rifle except that its barrel is 1.1 pounds heavier. The HBAR can maintain the sustained fire required of a squad automatic rifle. Its effectiveness in this role is enhanced by the use of 5.56 mm ammunition since more rounds can be carried and full automatic fire can be controlled accurately and easily.

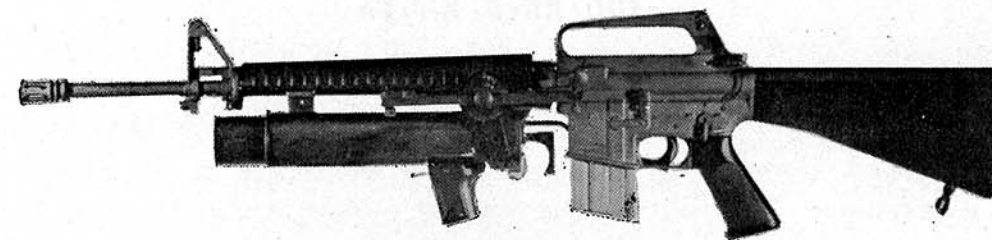
重自動步槍槍管較M16步槍槍管重1.1磅外，重自動步槍與M16步槍完全一樣，重自動步槍可維持班所需之一般支援火力。由於採用5.56公厘口徑彈藥，而能隨帶多量彈藥，故其效能愈益顯著，且其全自動火力能精確容易控制。

Characteristics 諸元

Caliber 口徑	.223	5.56 mm.
Overall length 全長	38.6"	980 mm.
Barrel length 槍管長	20"	507 mm.
Height (without magazine) 高度	8.8"	223 mm.
Rifling 來復線	Button	—
Pitch 纏度	1 in 12	305 mm.
Number of grooves 膛線	6	—
Weight (without magazine) 全重 (未附彈匣)	7.6 lbs.	3.44 kg.
Weight of bipod 腳架重	1.7 lbs.	.77 kg.
Weight of 20 round magazine full 20發彈匣裝滿全重	.71 lbs.	.32 kg.
Weight of 30 round magazine full 30發彈匣裝滿全重	1.0 lbs.	.46 kg.
Muzzle velocity 初速	3,250 ft./sec.	990 m/s
Muzzle energy 衝力	1,285 ft.-lbs.	178 m. kg.
Rate of fire 射擊速度	650-850 R.P.M.	—
Safety 保險裝置	Rotary—Blocks Trigger	—

40MM GRENADE LAUNCHER

擲彈筒



(Shown on M16 Rifle)

裝置於M16步槍上

Description and Purpose 性能說明

This 40MM self-contained grenade launcher is designed for mounting on the M16 (as shown above), and is adaptable to other current military rifles. Colt's grenade launcher gives the grenadier selection of either point or area fire capability as required.

40mm 擲彈筒係設計裝置於M16步槍上使用，也可按裝於其他步槍上使用。射手可以此作槍榴彈點放射擊或面積射擊。

Characteristics 諸元

Caliber 口徑	40 mm.	40 mm.
Overall length 全長	16.5 inches	425 mm.
Width with sight 寬度 (裝瞄準鏡)	4.1"	106 mm.
Height 高度	5.8"	150 mm.
Length of barrel 筒長	10"	254 mm.
Rifling 來復線	Broached	—
Pitch 纏度	1 turn in 48"	1220 mm.
Number of grooves 膛線	6	—
Weight 重量	2.8 lbs.	1.27 kg
Operation 操作法	Manual	—
Feed 裝填	Hand	—
Muzzle velocity 初速	240 ft./sec.	73 m/s
Rate of fire 射擊速度	12 R.P.M.	—
Type of firing 發射法	Single Shot	—

A COMPARISON BETWEEN THE COLT AR15 (M16) AND THE AR18 RIFLES

1. AR18 handguard material is glass reinforced plastic much like the M16 handguard. However, the AR18 pistol grip we believe to be made of a polycarbonate. This polycarbonate material, probably Lexan, is similar to the material used for the pistol grip and buttstock of the Stoner 63 weapon system. This material has not proven to be satisfactory in Vietnam because it is attacked by solvents used to clean weapons in the field. On the other hand, the M16 handguard, buttstock and pistol grip materials are not attacked by cleaning solvents of any kind.
2. The AR18 has several openings that permit entrance of dirt and debris into the rifle. The AR18 trigger opening, and more important, the ejector port and charging handle are completely open to the elements. This situation is an extremely poor one if combat occurs in adverse climatic conditions. Sand, mud, water and debris of other kinds get into the operating mechanism of the weapon through these openings and impair function. On the other hand, the M16 rifle operating mechanism is completely enclosed when it is not being fired. It is equipped with a dust cover for the ejection port. The M16 has proven superior to other weapons under adverse conditions in Vietnam.
3. All of the AR18 springs are of music wire which corrode very rapidly in a wet climate. The M16 rifle features almost exclusively stainless steel springs which are extremely corrosion resistant.
4. The buttstock of the AR18 is very weak in construction, particularly in the hinge area.
5. If a new barrel is required for the AR18, a completely new Upper Receiver is needed. The M16 barrel may be replaced readily simply by unscrewing the barrel locking nut and inserting a new barrel.
6. The 20-round magazine used by the AR18 is a Colt's magazine.
7. The AR18 does not feature an Arctic trigger. The M16 does feature an Arctic trigger which could be of importance in Korea and in North China in cold weather.

8. The barrel material used in the M16 is superior to that used in the AR18. In addition, the M16 features a chrome plated chamber which is extremely important as a corrosion preventative in adverse climatic conditions. The AR18 does not have a chrome plated chamber.
9. The M16 has been in high volume production since 1963. Most of the problems which exist when a new military rifle is put into volume production are solved by the experience gained in producing the weapon over a period of time. The fact that Colt's has solved these problems can be attested to by our current production rate. This cannot be said of the AR18.

M16 步槍與 AR18 步槍之比較

- 一、AR18 自動步槍之護手部份，係由加強玻璃塑膠材料製成，與M16 所用材料雖相近似。但其槍握把所用材料為多元碳酸質材料，此種材料尚未證實能適用於越戰場；因為此種材料可為現在使用之清潔劑所侵蝕。而M16自動步槍之護手、槍托、握把所用材料，則不會受到任何清潔劑之侵蝕。
- 二、AR 18 自動步槍有若干孔口無防塵裝置，易為灰塵及碎片進入；其板機孔、退彈孔、彈匣裝填孔完全暴露在外，在不良氣候時此種影響愈為嚴重。且砂、泥、水、以及其他碎片可經由此等孔口進入武器機件內部而損害武器之功能。而 M16 自動步槍之退彈部份裝有防塵蓋，不射擊時內部機件完全密封，在不良氣候之越戰中證明M16自動步槍較其他武器為優良。
- 三、AR18 自動步槍所用之彈簧鋼絲在潮濕氣候中極易生銹，M16 所用彈簧鋼絲全為不銹鋼絲。
- 四、AR18 自動步槍之槍托部份，尤其是在鉸鏈部份不十分堅固。
- 五、AR18 自動步槍如需更換槍管時，必需將其上部承受器整套更換。M16自動步槍更換槍管，祇需將固定螺帽打開換上新槍管。方法簡單換裝迅速。
- 六、AR18 自動步槍所用之20發彈匣，亦為「柯爾特」製品。
- 七、AR18 自動步槍沒有寒帶用板機裝置，而M15自動步槍裝有寒帶用板機裝置，此種裝置在寒帶（如韓國及中國東北各省）作戰，極為重要。
- 八、M16自動步槍槍管所用的材料較 AR18 自動步槍為優。M16自動步槍槍管之藥膛部份鍍鉻一層。在不良氣候中有防銹功能。AR18 自動步槍藥膛則未鍍鉻。
- 九、自1963年開始M16已大量生產，凡軍用步槍需經由一般之生產時期逐次解決其大部困難問題後，始能開始大量生產。目前我們柯爾特的大量生產是證明我們已經解決了這些困難問題，但是 AR18 要到這樣一個標準，還有很遠一段距離。