

Training FOR THE REAL WORLD™

STAND-OFF TRAINING DISTANCES FOR FX® MARKING CARTRIDGES ONLY: The FX® 9000 Series protective equipment has been designed and tested under rigorous laboratory conditions to resist impact from all FX® Marking Cartridges. GD-OTS Canada strongly recommends the following minimum stand-off training distances when firing at protected personnel*: 1-foot (30cm) for 9mm FX® and .38 cal FX® Marking cartridges, 3-foot (1m) for 5.56mm FX® Marking cartridges clipped and 6-foot (2m) for 5.56mm FX® Marking cartridges linked. Due to the nature of the FX® training system, end users must refer to their respective in-service training guidelines and regulations for the authorized force-on-force stand-off distances. * Protected personnel are defined as personnel using approved mandatory FX® head, throat and groin protection (and no exposed skin when using 5.56mm FX® Marking Cartridges). The FX® 8000 Series protective equipment may still be used with 9mm FX® and .38 cal. FX® Marking cartridges only.

FX®

WARNING

Use of this product without the mandatory safety equipment can result in serious injuries

CQT®

WARNING

Not for use against human targets

WARNING

IMPROPER USE CAN CAUSE SERIOUS INJURY OR DEATH.

This product requires the same firearm handling precautions as standard firearms. Use only with firearms in good condition. Keep barrel free of any obstructions. Use Simunition® conversion kit only in appropriate models and calibres of firearms as indicated on the conversion barrel and/or slide. If the gun fails to fire, avoid exposure to the breech when unloading and point the muzzle in a safe direction. Wear approved eye and ear protection, as required. The manufacturer shall not be liable for injuries or damage resulting from the use of this conversion kit.

KEEP OUT OF REACH OF CHILDREN.

Be aware that a firearm converted with this Simunition® conversion kit, like all firearms, if handled in a careless or reckless manner can be dangerous and lethal. Consequently, the Simunition® conversion kit accompanying these Handling and Safety Instructions has been sold under the express understanding that the manufacturer of this conversion kit declines any responsibility for consequences arising out of either intentional or accidental discharge of firearms and ammunitions used with this conversion kit, or from its function when used for purposes or subjected to treatment for which it was not designed.

It is mandatory that Simunition®-converted weapons be clearly identified as such, before any training takes place. A good practice is to use blue tape for FX® ammunition and yellow tape for CQT® ammunition on the trigger guard and grip. After training, kits and weapons must be thoroughly cleaned and lightly lubricated to avoid potential functioning problems. Remove colored tape as applicable.

ONLY FX® IS NON-LETHAL, CQT® IS CONSIDERED LETHAL.

WARRANTY: General Dynamics Ordnance and Tactical Systems-Canada Inc. (GD-OTS Canada) warrants that the goods shall be free from defect in materials and workmanship during the period of 24 months following the date of delivery. This warranty is the exclusive warranty given by GD-OTS Canada.

LIMITATION ON WARRANTY: Simunition® conversion kits are designed to fire Simunition® reduced energy cartridges only. Use of this Simunition® conversion kit with any other kind or brand of ammunition shall void the warranty.



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Training FOR THE REAL WORLD™

Simunition® Conversion kit for 9mm HK416D145RS and HK416D10RS Products No. 5311080 and 5311090

Handling and Safety Instructions

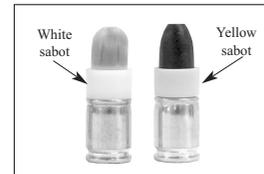


Fig. I
9mm FX® (left) and CQT® (right)

Intended only for supervised training conducted in accordance with Simunition® safety training protocols by Law Enforcement, Military and Simunition® approved Commercial Range Programs.

The safe use of the 9mm reduced-energy cartridges requires the installation of the appropriate conversion kit. Proper installation of the kit is required to help preclude the inadvertent chambering of most 9 x 19mm live, lethal ammunition and ensure the proper operation and cycling of the weapon. For safety reasons, conversion kits are manufactured from the same quality materials as original service parts.

The Simunition® conversion kit for HK416 family of weapons consists of 6 items designed and developed for training with reduced-energy 9mm FX® and CQT® ammunition only.

- A Bolt group (Fig. III)
- B Upper receiver group (Fig. III)
- C Clear plastic magazine HK416 for 9mm reduced-energy cartridge (Qty: 2 un.) (Fig. III)
- D Disassembly tool, Simunition® magazine (Fig. III)
- E Spring Action (recoil) FX®
- F Buffer assembly FX®

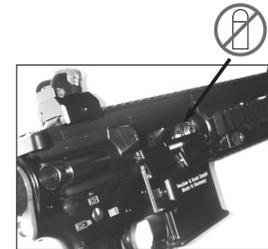


Fig. II

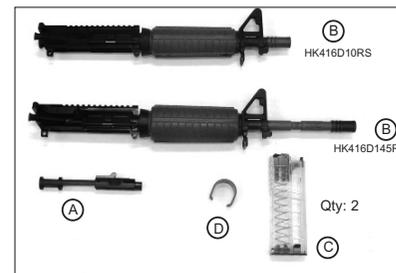


Fig. III

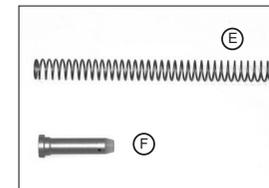


Fig. IIIA

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Fig. IV

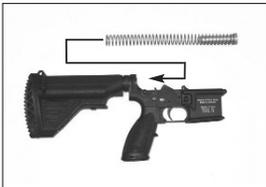


Fig. V



Fig. VI



Fig. VII



Fig. VIII

Installation

Note: the word “weapon” will describe all models of HK416.

1. Pointing the muzzle of the weapon in a safe direction, remove the magazine, lock the bolt group back and visually check (Fig. II) to ensure that there is no ammunition in the chamber and upper receiver.
2. Following weapon OEM factory guidelines, disassemble the upper receiver from the lower receiver by pushing back the two retaining pins through the upper receiver (Fig. IV).
3. Ensure that the conversion kit is clean and lubricated. The barrel must be clean and free from residual plastics or FX® marking compound. The bolt group must be lightly lubricated on the contact surfaces with the upper receiver, as per weapon OEM factory guidelines.
4. Exchange the service buffer and service recoil spring with the Simunition® buffer and recoil spring as per weapon OEM factory guidelines. (Fig. V)
5. Assemble the Simunition® upper receiver group with the service lower group using the two retaining pins as per weapon OEM factory guidelines. (Fig. VI)
6. The use of the Simunition® blue handguard (Fig. VIII) and blue plastic tape on the trigger guard and butt stock is strongly recommended to identify that the weapon has been converted for training with FX® marking cartridges. **For training with 9 mm CQT® (target practice cartridges), it is mandatory to place a bright yellow tape on the barrel, handguard, trigger guard and grip.** The Simunition® blue handguard can only be used with reduced-energy cartridges that generate very low heat transfer to the barrel and handguard.
7. Manually cycle the weapon and ensure all weapon mechanisms are operational as per weapon OEM factory guidelines.
8. Use with reduced-energy cartridge only. Handle the cartridges with care in order not to dislodge the bullets from the sabot. Magazines (Fig. VII) should not be loaded with more than 20 cartridges at one time. **NEVER MIX** different types (ex: FX® and CQT®) of reduced-energy cartridge as each type is used for a specific training application. **ONLY FX® AMMUNITION IS NON-LETHAL. CQT® AMMUNITION IS LETHAL.**

Note: For optimal function with the kit, General Dynamics Ordnance and Tactical Systems-Canada inc. recommends cleaning the barrel and chamber using a 9mm caliber brass (Fig XI) or stainless steel brush after the firing of every 80 cartridges or training session.

You may experience increase malfunction when using this kit at temperature below 10°C.

To prepare the weapon for use with 5.56mm service ammunition:

1. Pointing the muzzle of the rifle or carbine in a safe direction, remove the Simunition® 9mm reduced-energy magazine, lock the bolt group back and visually check that there is no ammunition in the chamber and upper receiver.
2. Following weapon OEM factory guidelines, disassemble the Simunition® upper receiver group from the service lower receiver by pushing back the two retaining pins through the upper receiver.
3. **Exchange the Simunition® buffer and recoil spring with the service parts** as per weapon OEM factory guidelines.
4. Assemble the service upper receiver group with the service lower group using the two retaining pins as per OEM factory guidelines.
5. Lubricate the weapon as per weapon OEM factory guidelines.
6. Manually cycle the weapon and ensure all weapon mechanisms are operational as per weapon OEM factory guidelines.

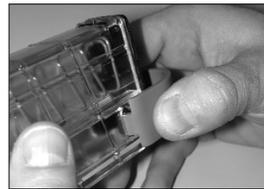


Fig. IX

MAGAZINE MAINTENANCE

The Simunition® Magazine Disassembly Tool (fig. IX) will assist the user when disassembling all types of Simunition® training magazines (9 mm FX®/SecuriBlank™ and 5.56 mm FX®/SecuriBlank™). This tool will ease disassembly and prevent damages from occurring to the magazine when disassembling Simunition® training magazines for cleaning or regular maintenance.

To disassemble the magazine, align the two protruding tabs on the Disassembly Tool with the slots on both sides of the magazine (as shown in Fig. IX). Once aligned, press firmly with the thumb and index until the bottom plate pops out. Under control, remove bottom plate, spring and follower and proceed with cleaning.

Clean all plastic parts with water soap and soft brush. Make sure all plastic part are completely dry. Re-assemble the magazine as per fig. X. Spring orientation is important for optimal functioning. A very thin coat of oil must be applied to prevent rust on spring.

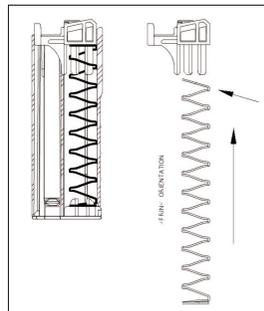


Fig. X

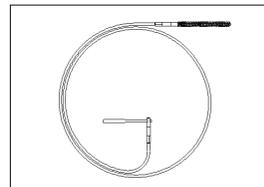


Fig. XI

Spare parts available:

| | |
|-----------|---|
| 5305720SP | Bolt Carrier Assembly |
| 5311070SP | Clear plastic magazine HK416 for 9mm reduced-energy cartridge |
| 5310790SP | Disassembly tool, Simunition® mag |
| 5304235SP | Blue Handguard, M4A1/HK416D145RS |
| 5305165SP | Blue Handguard, M16 Carbine/HK416D10RS |
| 5311085SP | Spring action (Recoil) FX® |
| 5311086SP | Buffer assembly FX® |