

57-2A

INSTRUCTIONS

for the

INSTALLATION AND OPERATION

of the

COLT TWO - and THREE - SHOT BURST CONTROL MODE

Parts contained in this modification kit
may be installed in

M16, XM16E1, Sub-Machine Gun
and Heavy Assault Rifle

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MODIFICATION KIT
THREE SHOT BURST CONTROL

INTRODUCTION

This modification kit contains all parts, tools and instructions necessary for the installation of the Colt Three Shot Burst Control. This modification may be made on any of the Colt AR-15 series of weapons, including the M-16, XM16E1, Sub Machine Gun CAR-15 and Rifle Heavy Assault M-1 CAR-15. Two shot burst control procedures and parts are identical except for the hammer cam. Two shot cam is listed separately in the parts list, Section IV.

CHAPTER I

THREE SHOT BURST CONTROL

INSTRUCTIONS

SECTION I - GENERAL

- 1.1 - The Colt Burst Control provides an additional fire control mode for the Colt AR-15 series of weapons. When a weapon is so equipped, and the fire control selector is set on the burst position, each pull of the trigger will cause full automatic fire of three consecutive rounds. This function will continue until another fire control mode is selected or until the magazine is empty.
- 1.2 - When this modification is installed there will be four positions for the selector lever (safety): SAFE, SEMI, AUTO and BURST. The BURST position will be located directly underneath the AUTO position with the selector pointing downward.

(a) Label. A label is supplied which must be affixed to the receiver before installation of the selector lever. The label is placed over the present selector lever markings to indicate the positions of the lever with burst control added. To apply the label, clean all dirt and oil from the receiver. To prevent instant adhesion, and to permit the label to slip easily for positioning, wet the receiver with water and detergent. Remove backing sheet from the label. Place label on receiver in proper position. Using a stiff piece of cardboard, squeegee water and bubbles from the label working from the center to the edge. Wipe clean with a damp cloth. Be certain all edges adhere tightly.

SECTION II - INSTALLATION

- 1.3 - PARTS. A parts list will be found in SECTION IV. Parts may be identified in Figure I.
- 1.4 - DISASSEMBLY. Disassemble the lower receiver as illustrated in Fig. 3-5, Steps 16-22 in TM 9-1005-249-14, Rifle, 5.56 MM, M16 and XM16E1. DO NOT remove the action spring guide assembly.

1.5 - ASSEMBLY

(a) Trigger Assembly. To simplify installation of the trigger assembly proceed as follows:

Holding trigger as it appears in the weapon, place the two disconnect springs (large springs) into the two large holes of the trigger slot. One end of the disconnect spring is larger than the other. Twist the large end into the hole. To facilitate this procedure insert the nose of a cartridge into the smaller end of the spring and rotate the spring clockwise, pressing firmly into the hole at a slight angle. The spring will now fit tightly in the hole. Place Semi Disconnect Auxiliary Spring (small spring) into the smaller hole. Place Burst Disconnect (with nose hook) into right side of trigger slot. Place Semi Disconnect into left side of trigger slot. Be certain the three springs are properly positioned. Insert a short pin (half a trigger pin is ideal) through holes in the trigger and disconnects. This will hold assembly together. Assemble trigger spring to trigger. Place assembly into the receiver in the proper position. Insert trigger pin. As trigger pin is pushed home the short pin will be ejected.

1.6 - All Burst Control parts are installed in the same way as standard parts as shown in Fig. 3-5, Steps 2-8, in TM 9-1005-249-14.

SECTION III - OPERATION

1.7 - Set selector lever at Burst position with pointer pointing straight down. This will hold SEMI Disconnect inoperative and permit Burst disconnect to operate. Pull and hold the trigger. The hammer will fall. As the cartridge fires and the hammer is cocked by action of the bolt and bolt carrier, the hammer cam will rotate with the hammer. The first of two shallow notches on this cam will engage the nose hook of the Burst Disconnect. Because of the shallow notch the disconnect hook cannot move forward far enough to catch the hammer. Forward action of the bolt carrier will release the hammer from the automatic sear. The hammer will fall, firing the second shot in the burst. This process will then be repeated automatically. As the hammer is cocked by the bolt carrier after the third shot the hammer cam will rotate a deeper notch into position under the nose hook of the burst disconnect. This deeper notch will permit the Burst Disconnect to move farther forward than did either of the two shallow notches. When the hammer is released from the automatic sear by the forward motion of the bolt, the hammer will be engaged by the Burst Disconnect halting the automatic cycle. When the trigger is released the disconnect moves rearward with the trigger, releasing the hammer which is simultaneously engaged by the trigger sear. The next squeeze of the trigger will start the three round burst cycle again.

NOTE

The first pull of the trigger after selection of the burst mode may not result in the full three round burst, depending upon the position of the hammer cam. The next squeeze will fire the full burst if enough cartridges remain in the magazine.

SECTION IV - PARTS LIST

Parts may be identified in Figure 1. Standard parts are shown in the top row for comparison.

NAME	NUMBER	ILLUSTRATION KEY Figure 1
Trigger	GX5070	1B
Disconnect Springs (2)	61925	2Std.
Disconnect Auxiliary Spring	GX5069	3B
Semi Disconnect	GX5071	4B
Burst Disconnect	GX5068	5B
Selector Lever	GX5066	6B
Sear	GX4940	7B
Hammer Spring	GX5067	8B
Hammer	GX5056	9B
Hammer Cam (3-shot)	GX4999	10B
Hammer Clutch Spring	GX4931	11B
Decal	GX6039	Not Shown

The following standard parts are interchangeable:

Trigger Spring	61657	Mounted on Trigger
Trigger Pin	61654	4
Sear Pin	61615	7
Hammer Pin	61654	10

NOTE

The above parts are supplied for three-shot burst control. Two-shot burst control is also available. Only the hammer cam need be changed. All other parts are identical.

Hammer Cam (2-shot)	GX4930	Not Shown.
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FIGURE 1.