



US Patent #10306739

SHOTGUN SIMULATOR / BUMPER LAUNCHER

Simulator requires MAPP gas cylinder (not included).

Bumper Launcher requires use of approved Thunder Equipment Bumpers (not included)

 **WARNING! ONLY PROPERLY TRAINED USERS OVER 16 YEARS OF AGE SHOULD OPERATE THIS EQUIPMENT**

KEYS REQUIREMENTS FOR SAFE OPERATION

1. **ALWAYS KEEP THE MUZZLE POINTED IN A SAFE DIRECTION:** A safe direction is one in which an accidental discharge will not cause injury to yourself or others. Be especially careful when you're loading or unloading. No one will be injured by an accidental discharge if you keep your simulator pointed in a safe direction.
2. **SIMULATOR SHOULD BE UNLOADED (GAS REMOVED) WHEN NOT IN USE:** Load gas into the simulator only when preparing for use or heading to the field. Before passing it to someone else ensure the safety is on (yellow button rotated away from red mark alignment).
3. **DON'T RELY ON YOUR SAFETY:** Treat every simulator as if it can fire at any time. Never touch the igniter button until you are ready to fire.
4. **USE PROPER FUEL:** Never use any fuel in your shooter except for factory new MAPP gas. Never use refillable containers of any type. Properly disposed of empty cylinders based on local ordinances.
5. **ALWAYS WEAR EYE AND EAR PROTECTION AT ALL TIMES**
6. **BE SURE THE BARREL IS CLEAR OF OBSTRUCTIONS BEFORE SHOOTING**
7. **NEVER LAUNCH ANY OBJECTS FROM THE SHOOTER OTHER THAN APPROVED THUNDER EQUIPMENT BUMPERS**
8. **NEVER ALTER OR MODIFY YOUR SHOOTER IN ANY WAY**



WARNING! NEVER PUT ANYTHING ON THE END OF YOUR SIMULATOR OTHER THAN APPROVED THUNDER EQUIPMENT BUMPERS. NEVER PLUG THE END OF YOUR SIMULATOR FOR ANY REASON. FAILURE TO COMPLY COULD CAUSE PROPERTY DAMAGE, SERIOUS INJURY, OR DEATH.

STARTUP AND LAUNCH SEQUENCE

The sequence to fire your launcher is a two step process. Depressing the button approximately flush with the outer cylinder readies the system to fire by expelling fuel into the chamber. Complete the firing sequence by fully depressing the button (slightly below the outer cylinder) which causes the system to fire. The timing in between the two steps needs no longer than 1-2 seconds under average operating conditions.



WARNING! EYE AND EAR PROTECTION SHOULD BE WORN AT ALL TIMES WHILE OPERATING THIS UNIT

1. **BEFORE INSTALLING FUEL, INSPECT THE END OF YOUR SIMULATOR TO ENSURE THE END IS CLEAN, FREE OF DEBRIS AND NOT PLUGGED IN ANY MANNER.**
2. **INSTALL MAPP GAS** (not included): Install can of MAPP gas (yellow can) into the threads at the rear of the simulator. MAPP gas is readily available at all major home improvement retailers and many discount stores like Wal-Mart. The shorter, fatter MAPP gas cylinders produced by BernzoMatic® have more fuel and are shorter which make the shooter more compact and ergonomic but any MAPP cylinder will work sufficiently.
CAUTION: DO NOT STRIP THE SIMULATOR THREADS BY FORCEFULLY INSTALLING THE GAS CANISTER, IT WILL FIT. STRIPPED OR DAMAGED THREADS ARE NOT COVERED UNDER WARRANTY.



WARNING! THERE SHOULD BE NO INDICATION OF CONTINUOUS GAS FLOW AFTER THE CANISTER IS INSTALLED. IF YOU HEAR CONTINUOUSLY FLOWING, SMELL GAS ESCAPING WHEN SYSTEM IS NOT IN USE, OR THE TANK BECOMES UNEXPLAINABLY COLD, UNSCREW THE TANK IMMEDIATELY AND CONTACT THUNDER EQUIPMENT.

3. **ADJUST CARRY STRAP:** When using the simulator for manual bird throwing it is best to put the strap over your opposite shoulder and face the shooter towards the rear. When shooting bumpers, although there is no recoil, the shooter should be facing forward.



WARNING! WHEN SHOOTING BUMPERS MAKE SURE THE STRAP IS SET SUFFICIENTLY TO ALLOW MAXIMUM DISTANCE BETWEEN THE END OF THE SHOOTER AND USERS EXTREMITIES. DO NOT DISCHARGE BUMPERS WITH TUBE CLOSE TO USERS HEAD OR FACE

4. **SAFETY MECHANISM:** The safety mechanism is engaged by rotation of the yellow ignition button. The safety mechanism provides protection against accidental or unintentional discharge under normal usage when properly engaged and in good working order. To engage the safety mechanism, rotate the igniter button so the red marks are not aligned. This should prevent the button from being depressed.

5. **SHOTGUN SIMULATOR:** Rotate the yellow button until the two red marks are aligned. This releases the safety and prepares the machine for firing. Face the simulator to the rear of the thrower (see photo) which projects the sound back toward the running line. Depress the button approximately flush with the outer cylinder readies the system to fire by expelling fuel into the chamber. Complete the firing sequence by fully depressing the button (slightly below the outer cylinder) which causes the system to fire. The timing in between the two steps needs no longer than 1-2 seconds under average operating conditions.



WARNING! IF AFTER FIRING THE SYSTEM DOES NOT SHUT OFF, FIRST TAP HARD ON THE SIDE OF THE SIMULATOR NEAR THE IGNITER BUTTON. IF SYSTEM DOESN'T SHUTDOWN, IMMEDIATELY REMOVE THE GAS CYLINDER. CONTACT THUNDER EQUIPMENT IF THIS SITUATION OCCURS EVEN IF THE SIMULATOR STOPS.

6. **BUMPER LAUNCHER:** The protective rod installed on the end must be removed in order to allow installation of the bumper. Install a Thunder Equipment approved bumper on the end of the small tube at the front of the simulator. Face the simulator toward the front of the thrower (see photo) Depress the button approximately flush with the outer cylinder readies the system to fire by expelling fuel into the chamber. Complete the firing sequence by fully depressing the button (slightly below the outer cylinder) which causes the system to fire. The timing in between the two steps needs no longer than 1-2 seconds under average operating conditions.



WARNING! ONCE THE SIMULATOR FIRES, IMMEDIATELY RELEASE THE IGNITION BUTTON TO SHUT OFF IGNITION. HOLDING THE FIRING BUTTON DOWN AFTER IGNITION FOR AN EXTENDED TIME CAUSES THE IGNITION TUBE TO OVERHEAT.



WARNING! NEVER TRANSPORT SIMULATOR WITH MAPP GAS INSTALLED



WARNING! Failure to comply with applicable safety precautions could cause property damage, serious injury or death. Thunder Equipment accepts no liability for personal injury, property damage, or death sustained while handling same or damage caused during the operation or transportation of this machine whether specifically stated in manuals or otherwise.

FOR PRODUCT QUESTIONS OR CONCERNS CONTACT:

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