

M1 Garand Info

Basic data on the M1 Garand rifle:

I-5. Tabulated Data

a. Rifle, M1.

Weight of rifle w/o equipment	9.5 lb. approx.
Weight of rifle w/bayonet	10.5 lb. approx.
Length of rifle	43 in.
Length of barrel	24 in.
*Muzzle velocity	2,750-2,800 fps
*Maximum effective range	500 yd.
*Maximum effective rate of fire (aimed rounds per minute)	16-24
*Number of cartridges in clip	8
*Types of ammunition	Ball, armor-piercing-incendiary, tracer, blank, rifle grenade cartridge and dummy

M1 Trouble Shooting Guide

MALFUNCTION	PROBABLE CAUSE	CORRECTIVE ACTION
Failure to load	Damaged clip Improperly assembled receiver components	Replace clip. Disassemble, and reassemble correctly
Failure to feed	Weak or broken operating rod spring Binding or damaged operating rod	Replace spring Take rifle to a gunsmith
Bolt fails to close	Dirty or deformed ammunition Cartridge case holding bolt out of battery Dirty chamber Extractor does not snap over rim of cartridge Frozen ejector spring and plunger Restricted movement of or damaged operating rod Weak or broken operating rod spring	Clean or replace ammunition. Pull bolt to the rear and remove dirty or deformed cartridge. Clean chamber Clean bolt assembly and extractor recess Replace extractor Replace ejector Take rifle to a gunsmith Replace spring

	Damaged receiver	Take rifle to a gunsmith
Failure to fire	Bolt not in battery Defective ammunition Firing pin worn, damaged, or movement restricted Inadequate firing pin protrusion Weak or broken hammer spring Hammer damaged or broken	See “bolt fails to close”. Follow procedures for misfires Replace firing pin If previous step complete, take rifle to a gunsmith Replace hammer spring Replace hammer
Short recoil	Gas cylinder lock screw loose Gas cylinder lock not fully seated Carbon or foreign matter in gas cylinder or barrel port Defective operating rod spring Gas cylinder not fully seated Improper lubrication in cold weather Unserviceable gas cylinder Unserviceable gas piston	Tighten lock screw, replace if necessary Tighten gas cylinder lock Clean Replace spring Remove and properly install gas cylinder Clean and lubricate properly Replace gas cylinder Replace operating rod or take to gunsmith
Failure to extract	Cartridge seized in chamber Damaged or deformed extractor Ruptured cartridge case	Remove cartridge and clean chamber Replace extractor Remove cartridge case
Failure to eject	Short recoil Weak, frozen or distorted ejector spring and plunger	See “short recoil”. Replace ejector
Failure of bolt to be held rearward after last round is fired	Insufficient rearward movement of bolt Defective or broken operating rod catch Defective operating rod.	See “short recoil”. Replace operating rod catch Replace operating rod
Failure of clip to eject	Broken or deformed clip latch spring	Replace clip latch spring