

TM 43-0001-28-10

DEPARTMENT OF THE ARMY TECHNICAL
MANUAL

ARTILLERY AMMUNITION:
AUTHORIZED PROJECTILE, FUZE, AND PROPELLING
CHARGE COMBINATIONS
FOR
HOWITZER, LIGHT, TOWED, 105MM: M101, M101A1,
AND M102

Approved for public release; distribution is unlimited

Headquarters, Department of the Army, Washington, DC
31 August 1988

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You can help improve this manual. If you find any mistakes or know of a way to improve the procedures, please let us know. Mail your DA Form 2028 (Recommended Changes to Publications and Blank Forms), direct to: Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAY-T (D), Picatinny Arsenal, New Jersey 07806-5000. A reply will be furnished direct to you.

INTRODUCTION

SCOPE

This manual contains a listing of authorized projectile, fuze, and propelling charge combinations for the light towed, 105mm, M101, M101A1, and M102 howitzer. For ready reference and ease of handling, this information is published in chart form. When a conflict exists in the data in this manual and other published technical manuals, this manual will take precedence.

PRECAUTIONS

Precautions and restrictions to be observed in handling fuzes and firing ammunition with cartridge/projectile-fuze combinations indicated in this manual are published in TM 9-1015-203-12&P and TM 9-1015-234-10.

*This manual supersedes TM 43-0001-28-10 dated 30 June 1986.

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KEY	TO ABBREVIATIONS AND SYMBOLS
x	----- AUTHORIZED
●	----- AUTHORIZED
APERS-T	----- Antipersonnel with tracer
BD	----- Base detonating
BE	----- Base ejection
CS	----- A tactical riot control agent
GB	----- Nonpersistent toxic (casualty) nerve gas
H	----- Mustard gas
HD	----- Distilled mustard gas
HE	----- High explosive
HEP	----- High explosive plastic
HEP-T	----- High explosive plastic with tracer
HERA	----- High explosive rocket assisted
Illum	----- Illuminating
MT	----- Mechanical time
MTSQ	----- Mechanical time and superquick
P	----- Requires removal of supplementary charge if present
PD	----- Point detonating
TP-T	----- Target practice with tracer
VT	----- Variable time
WP	----- White phosphorus

**AUTHORIZED CARTRIDGE/FUZE COMBINATIONS
HOWITZER, LIGHT, TOWED, 105MM: M101, M101A1 AND M102**

FUZES										TYPE AND MODEL NO. OF CARTRIDGE	FIRING LIMITATIONS					
PD	MT	MTSQ			BD	VT										
M557/M572	M739 Series	M78 Series	M563 Series	M565	M501 Series	M548	M564	M577 Series	M582 Series	M62 Series	M91 Series	M513 Series	M728	M732		
X	X	X				X		X						X	HE, M1 (NORMAL CAVITY)	
X	X	X				X		X				P	P	X	HE, M1 (DEEP CAVITY)	M513 or M728 Fuzes are not to be fired at Charge 7 except under emergency combat conditions.
			X												APERS-T, M546	Not to be fired overhead of friendly troops. Restricted to Charge 7 for targets between 275 and 400 meters, firing at Charge 6 with a Fuze setting of 0.5 seconds is permitted.
				X											SMOKE, BE, M84/M84B1	
			X		X	X									SMOKE, BE, M84A1	
X															SMOKE, WP, M60/M60A1	
X	X					X	X								SMOKE, WP, M60A2	
X	X						X	X					2 P		HERA, M548	Charge 7 authorized rocket-on and rocket-off modes. Charges 3,4,5, and 6 authorized rocket-off only under emergency combat conditions.
X	X														GAS, H OR HD, M60 ³	
X	X														GAS, GB, M360 ³	

See footnotes at end of table.

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AUTHORIZED CARTRIDGE FUZE COMBINATIONS
HOWITZER, LIGHT, TOWED, 105MM: M101, M101A1 AND M102 - Continued

FUZES							TYPE AND MODEL NO. OF CARTRIDGE	FIRING LIMITATIONS								
PD	MT	MTSQ			BD	VT										
M557 / M572 Series	M739 Series	M78 Series	M563 Series	M565	M501 Series	M548	M564	M577 Series	M582 Series	M62 Series	M91 Series	M513 Series	M728	M732		
			X		X										HE, M444	
									X	X					HEP/HEP-T, M327	
				X											ILLUM, M314, M314A1, M314A2	
			X		X	X									ILLUM, M314A3	
									4	4					TP-T, M67	
									X	X					TACTICAL, CS, M629	

- WARNING:**
- DO NOT FIRE M513 SERIES FUZES OUTSIDE THE FOLLOWING TEMPERATURES LOWER LIMIT: 0°F. UPPER LIMIT: + 120° FIMS DESENSITIZING CAP USED ON M513 SERIES FUZES ONLY.
 - THE M548 CARTRIDGE ASSEMBLED WITH THE M728 VT FUZE IS NOT TO BE FIRED AT CHARGE 7 EXCEPT UNDER EMERGENCY COMBAT CONDITIONS.

- NOTE:**
- SOME GAS PROJECTILES MAY COME WITH THE M508 PD FUZE.
 - THE M67 TP-T CARTRIDGES CONTAIN EMPTY FUZE BODIES WITH A TRACER.

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