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FM 23-90 C1 Change 1 Headquarters Department of the Army Washington, DC, 9 December 2002 Mortars This change updates misfire procedures for ground- and carrier-mounted 120-mm

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Washington, DC, 17 July 2008 Mortar Fire Direction
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ATP 3-21.90 MCTP 3-01D TACTICAL EMPLOYMENT OF
MORTARS. October 2019 . DISTRIBUTION RESTRICTION:
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target first. This allows infantrymen to confront the enemy while supporting the battle plan.

~~FM 23-90 Chptr 3 60 mm Mortar, M224~~

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Training Circular TC 3-22.90 Mortars March 2017 This publication prescribes guidance for leaders and members of mortar squads. It concerns mortar squad training and is used with the applicable technical manuals (TMs) and Army training programs. It presents practical solutions to assist in the timely delivery of accurate mortar fires, but does not discuss all possible situations. Local requirements may dictate minor variations from the methods and techniques described herein. However, principles should not be violated by modification of techniques and methods. The scope of this publication includes mortar squad training at the squad level.

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The 60-milimeter (mm) mortar, M224/M224A1; 81-mm mortar, M252/M252A1; 120-mm mortars, M120/M121; and the Recoil Mortar System 6-Lightweight (RMS6-L) are discussed, and includes nomenclature, sighting, equipment, characteristics, capabilities, and ammunition. (Refer to ATTP 3-21.90 for information on the tactics, techniques, and procedures that mortar sections and platoons use to execute the combat mission.) This publication prescribes DA Form 5964 (Gunner's Examination Scorecard-Mortars).

This publication prescribes guidance for leaders and crewmen of mortar squads. It concerns mortar crew training, and it is used with the applicable technical manuals (TMs) and Army Training and Evaluation Programs (ARTEPs). It

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presents practical solutions to assist in the timely delivery of accurate mortar fires, but does not discuss all possible situations. Local requirements may dictate minor variations from the methods and techniques described herein. However, principles should not be violated by modification of techniques and methods. The scope of this publication includes mortar crew training at the squad level. The 60-mm mortar, M224; 81-mm mortar, M252; and 120-mm mortars, M120/M121 are discussed, to include nomenclature, sighting, equipment, characteristics, capabilities, and ammunition. (For information on the tactics, techniques, and procedures that mortar sections and platoons use to execute the combat mission, refer to FM 7.90.)

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The scope of this publication includes mortar crew training at the squad level. The 60-mm mortar, M224; 81-mm mortar, M252; and 120-mm mortars, M120/M121 are discussed, to include nomenclature, sighting, equipment, characteristics, capabilities, and ammunition. (For information on the tactics, techniques, and procedures that mortar sections and platoons use to execute the combat mission, refer to FM 7.90.) Mortars are suppressive indirect fire weapons. They can be employed to neutralize or destroy area or point targets, screen large areas with smoke, and provide illumination or coordinated high-explosive/illumination. The mortar platoon's mission is to provide close and immediate indirect fire support for maneuver battalions and companies. For mortar fire to be effective, it must be dense and must hit the target at the right

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time with the right projectile and fuze. Good observation is necessary for effective mortar fire. Limited observation results in a greater expenditure of ammunition and less effective fire. Some type of observation is desirable for every target to ensure that fire is placed on the target. Observation of close battle areas is usually visual. When targets are hidden by terrain features or when great distance or limited visibility is involved, observation can be achieved by radar or sound. When observation is possible, corrections can be made to place mortar fire on the target by adjustment procedures; however, lack of observation must not preclude firing on targets that can be located by other means. Mortar fire must be delivered by the most accurate means that time and the tactical situation permit. When possible, survey data or

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systems, such as the Mortar Fire Control System (MFCS), are used to accurately locate the mortar position and target. Under some conditions, only a rapid estimate of the location of weapons and targets may be possible. To achieve the most effective massed fires, the MFCS should be used or a survey using accurate maps should be made of each mortar position, registration point, and target. The immediate objective is to deliver a large volume of accurate and timely fire to inflict as many enemy casualties as possible. The number of casualties inflicted in a target area can usually be increased by surprise fire. If surprise massed fires cannot be achieved, the time required to bring effective fires on the target should be kept to a minimum. The greatest demoralizing effect on the enemy can be achieved by

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delivering the maximum number of effective rounds from all the mortars in the shortest possible time. Mortar units must be prepared to accomplish multiple fire missions. They can provide an immediate, heavy volume of accurate fire for sustained periods. In heavy brigade combat team (HBCT) companies, mortars are normally fired from mortar carriers; however, they maintain their capability to be ground-mounted. Firing from carriers permits rapid displacement and quick reaction. Infantry brigade combat team (IBCT) companies must fire their mortars from the ground. Mortars should be employed in defilade to protect them from enemy direct fire and observation, and to take the greatest advantage of their indirect fire role. Although the use of defilade precludes sighting the weapons directly at the target (direct lay), it is

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necessary for survivability. Because mortars are indirect fire weapons, special procedures ensure that the weapon and ammunition settings used will cause the projectile to burst on or above the target. A coordinated effort by the indirect fire team ensures the timely and accurate engagement of targets.

This publication, "Mortars" (FM 3-22.90), prescribes guidance for leaders and crewmen of mortar squads. It concerns mortar crew training, and it is used with the applicable technical manuals (TMs) and Army Training and Evaluation Programs (ARTEPs). It presents practical solutions to assist in the timely delivery of accurate mortar fires, but does not discuss all possible situations. Local requirements may dictate minor variations from the methods and techniques described herein.

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However, principles should not be violated by modification of techniques and methods. The scope of this publication includes mortar crew training at the squad level. The 60-mm mortar, M224; 81-mm mortar, M252; and 120-mm mortars, M120/M121 are discussed, to include nomenclature, sighting, equipment, characteristics, capabilities, and ammunition.

This manual provides guidance for MOS 11C soldiers and their trainers on the employment of the 60-mm (M224 and M19) mortars, 81-mm (M252 and M29A1) mortars, 4.2-inch (M30) mortar, and 120-mm (M120) mortars. It discusses the practical applications of ballistics and a system combining the principals, techniques, and procedures essential to the delivery of timely and accurate mortar fire. (See FM 23-90 for

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information on mechanical training, crew drills, and the characteristics, components, and technical data of each mortar.)

This Army and Marine Corps multiservice publication serves as doctrinal reference for the employment of mortar squads, sections, and platoons. It contains guidance on tactics and techniques that mortar units use to execute their part of combat operations described in battalion-, squadron-, troop-, and company-level manuals. This publication also contains guidance on how a mortar unit's fires and displacement are best planned and employed to sustain a commander's intent for fire support. The target audience of this publication includes mortar squad, section, and platoon leaders,

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company and battalion commanders, battalion staff officers, and all others responsible for controlling and coordinating fire support during combined arms operations. Training developers also use this manual as a source document for combat critical tasks. Combat developers use this manual when refining and revising operational concepts for Infantry and reconnaissance mortar organizations. This publication serves as the primary reference for both resident and nonresident mortar tactical employment instruction.

Army Techniques Publication ATP 3-09.30 Observed Fires
SEPTEMBER 2017 Army Techniques Publication (ATP)
3-09.30 sets forth the doctrine pertaining to the organization,
equipment, mission command, operations, and provides

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techniques for employing fire support assets as an observer which can be applied within the framework of decisive action or unified land operations. It is applicable to any Army personnel observing for artillery or mortar fires, close air support, army attack aviation, or naval surface fire support. See ATP 3-09.32 for information on close air support, army attack aviation, or naval surface fire support. The principal audience for this publication is FA commanders, staffs, and personnel at the field artillery brigade (FAB), division artillery (DIVARTY), and brigade combat team (BCT) and separate FA battalions and below. Commanders, staffs, and subordinates ensure that their decisions and actions comply with applicable United States, international, and in some cases host-nation laws and regulations. Commanders at all

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levels ensure that their Soldiers operate in accordance with the law of war and the rules of engagement (See FM 27-10).

Training Circular (TC) 3-09.81, "Field Artillery Manual Cannon Gunnery," sets forth the doctrine pertaining to the employment of artillery fires. It explains all aspects of the manual cannon gunnery problem and presents a practical application of the science of ballistics. It includes step-by-step instructions for manually solving the gunnery problem which can be applied within the framework of decisive action or unified land operations. It is applicable to any Army personnel at the battalion or battery responsible to delivered field artillery fires. The principal audience for ATP 3-09.42 is all members of the Profession of Arms. This includes field

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artillery Soldiers and combined arms chain of command field and company grade officers, middle-grade and senior noncommissioned officers (NCO), and battalion and squadron command groups and staffs. This manual also provides guidance for division and corps leaders and staffs in training for and employment of the BCT in decisive action. This publication may also be used by other Army organizations to assist in their planning for support of battalions. This manual builds on the collective knowledge and experience gained through recent operations, numerous exercises, and the deliberate process of informed reasoning. It is rooted in time-tested principles and fundamentals, while accommodating new technologies and diverse threats to national security.

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When the U.S. military invaded Iraq, it lacked a common understanding of the problems inherent in counterinsurgency campaigns. It had neither studied them, nor developed doctrine and tactics to deal with them. It is fair to say that in 2003, most Army officers knew more about the U.S. Civil War than they did about counterinsurgency. The U.S. Army / Marine Corps Counterinsurgency Field Manual was written to fill that void. The result of unprecedented collaboration among top U.S. military experts, scholars, and practitioners in the field, the manual espouses an approach to combat that emphasizes constant adaptation and learning, the importance of decentralized decision-making, the need to understand

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local politics and customs, and the key role of intelligence in winning the support of the population. The manual also emphasizes the paradoxical and often counterintuitive nature of counterinsurgency operations: sometimes the more you protect your forces, the less secure you are; sometimes the more force you use, the less effective it is; sometimes doing nothing is the best reaction. An new introduction by Sarah Sewall, director of the Carr Center for Human Rights Policy at Harvard's Kennedy School of Government, places the manual in critical and historical perspective, explaining the significance and potential impact of this revolutionary challenge to conventional U.S. military doctrine. An attempt by our military to redefine itself in the aftermath of 9/11 and the new world of international terrorism, The U.S. Army /

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Marine Corps Counterinsurgency Field Manual will play a vital role in American military campaigns for years to come. The University of Chicago Press will donate a portion of the proceeds from this book to the Fisher House Foundation, a private-public partnership that supports the families of America's injured servicemen. To learn more about the Fisher House Foundation, visit www.fisherhouse.org.

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