

INFANTRY NEWS



THE INDIVIDUAL SOLDIER radio (ISR), being developed under the Soldier Enhancement Program, is projected for fielding in Fiscal Year 1996.

The small lightweight radio will improve intrasquad command and control in training and in all combat scenarios. With it, the transmission of orders and other critical information within the squad will be easier and faster.

The following are the required characteristics for ISR development:

- No larger than 70 cubic inches.
 - Weigh less than 30 ounces, including battery, headset, carrying case, and antenna.
 - Powered by a throwaway or rechargeable battery capable of 12 hours operation.
 - Frequency selected will not interfere with the current combat net radio FM frequency of 30-87.975 megahertz. The ISR will have a preset capability that is externally selectable without any alignment.
 - Range of 700 meters over rolling, slightly wooded terrain. At least 250 meters will be achieved by a soldier in a prone position or operating from a fox-hole.
 - Capable of one-handed operation, with multiple input/output capability—internal microphone and speaker, external microphone and speaker (headset)—compatible with the PASGT helmet and load bearing equipment, and capable of accepting a remote push-to-talk switch.
 - Rugged enough to withstand the conditions and stress of combat; not operationally degraded if dropped from a minimum height of one meter, onto the ground, rocks, or other hard surfaces.
- The ISR will increase the individual soldier's effectiveness and situational awareness, especially at night.

BRADLEY CORNER

The Bradley Proponency Office at Fort Benning is developing a revision of Field Manual (FM) 23-1, *Bradley Fighting Vehicle Gunnery*, which is scheduled for distribution during Fiscal Year 1996. This revision is considered necessary because of changes in gunnery strategy and the fielding of new equipment.

First, we are changing from a gunnery strategy with a "Cold War" focus to a more flexible strategy based on contingency missions. This new strategy will allow units to develop gunnery programs that are based on their mission essential task lists (METLs) and conditions of mission, enemy, troops, terrain, and time (METT-T).

In addition, the M2A2/M3A2 Operation DESERT STORM (ODS) Bradley is to be fielded in FY 1996. It will be equipped with an eyesafe laser rangefinder, the global positioning system with digital compass system, a driver's thermal viewer, and an improved vehicular intercom system. These vehicles are designed to accept the battlefield combat identification system (BCIS) and a missile countermeasure device. Other major events reflected in the FM revision are the fielding of the precision gunnery system, the thru-sight video, and Bradley-equipped air defense artillery units.

The revised FM 23-1 will consist of two volumes in the same size as FM 7-7J, stapled and punched. Soldiers will be able to place both volumes in either an Army black binder or a green TM-type binder for protection. Soldiers can build their own books to fit their

needs and keep them on the vehicles instead of bookshelves.

FM 23-1, Volume 1, titled *Crew Member's Handbook*, will contain information specific to the vehicle and the crew members. Some of the subject areas are vehicle and weapon system characteristics, target acquisition, fire commands, engagement techniques, fire control and distribution, weapon system checks and malfunctions, and gunnery training objectives.

Volume 2, titled *Trainer's Handbook*, will contain the training-manager information a master gunner needs to build and sustain a successful gunnery program. The chapters in this volume are Bradley Training Program, Training Devices, Ranger Operations, Gunnery Evaluation, and Gunnery Training from Preliminary to Tactical. Cavalry and air defense tactical gunnery training are covered in separate chapters. Training Circular 23-5, *BFV Training Devices*, has been incorporated into the chapter on training devices.

The appendixes will be in Volume 2, covering the Bradley Gunnery Skills Test, boresighting and testing procedures, limited visibility gunnery, and scaled ranges. A new appendix will provide the basics of combat vehicle identification.

Anyone who has comments or suggestions for this revision is invited to write Commander, 1st Battalion, 29th Infantry, ATTN: ATSH-INA-BPO, Ft. Benning, GA 31905; call DSN 784-6201, commercial (706) 544-6201; or FAX DSN 784-6751, commercial (706) 544-6751.

INFANTRY NEWS

THE TABLE shown here lists all infantry doctrine and training literature published to date, along with DA Form 12 block numbers. It is intended as a quick-reference aid for units in ordering these publications.

Obviously, such an extensive list cannot be published often, but the literature updates that appear from time to time in the Infantry News section can be used to supplement this list.

A PARACHUTIST ANKLE brace has been shown to reduce the incidence of ankle injuries in initial airborne training as well as in an operational airborne environment.

The initial study involved almost 800 airborne students at Fort Benning, Georgia. The incidence of ankle sprains in the test was 1.8 percent among the students without the braces and .3 percent



among those with braces. Shortly after completion of this study, the airborne school began furnishing braces to all their students. Subsequently, students had 52 percent fewer ankle sprains than historical norms and 80 percent fewer fractures.

PUBLISHED INFANTRY DOCTRINE AND TRAINING LITERATURE			
MANUAL NUMBER	TITLE	PUBLICATION DATE	DA FORM 12 BLOCK NO.
ARTEP 7-7J-Drill	BFV Battle Drills	12/08/92	1438
ARTEP 7-8-Drill	Battle Drills for the Infantry Rifle Platoon and Squad	11/03/93	0767
ARTEP 7-8-MTP	MTP for the Infantry Rifle Platoon and Squad	09/30/88	0768
ARTEP 7-10-MTP	MTP for the Infantry Rifle Company	10/03/88	0769
ARTEP 7-20-MTP	MTP for the Infantry Rifle Company	12/27/88	0162
ARTEP 7-30-MTP	MTP for the Infantry Brigade (Command Group/Staff)	02/17/89	0854
ARTEP 7-90-Drill	Drills for the Infantry Mortar Platoon, Section, and Squad	02/14/90	0770
ARTEP 7-90-MTP	MTP for the Infantry Mortar Platoon, Section, and Squad	08/10/89	0822
ARTEP 7-91-Drill	Drills for the Antiarmor (TOW) Platoon, Section, and Squad	02/15/90	0362
ARTEP 7-91-MTP	MTP for the Antiarmor Company/Platoon/Section	10/12/89	0823
ARTEP 7-92-MTP	MTP for the Infantry Scout Platoon/Squad and Sniper Team	03/16/89	0824
ARTEP 7-93-MTP	MTP for the Long-Range Surveillance (Hvy/Lt) Company/ Detachment Team	12/27/88	0782
ARTEP 7-94-MTP	MTP for the Infantry Battalion HHC and CS/CSS Platoon	10/12/89	0855
ARTEP 71-2-MTP	MTP for the Tank and Mechanized Infantry Battalion Task Force	10/03/88	0776
FM 7-7	The Mechanized Infantry Platoon and Squad (APC)	03/15/85	0222
FM 7-7J	The Mechanized Infantry Platoon and Squad (Bradley)	05/07/93	0794
FM 7-8	The Infantry Rifle Platoon and Squad	04/22/92	0782
FM 7-10	The Infantry Rifle Company	12/14/90	0078
FM 7-20	The Infantry Battalion	04/06/92	0079
FM 7-30	The Infantry Brigade	04/24/81	0783
FM 7-85	Ranger Unit Operations	06/09/87	0136
FM 7-90	Tactical Employment of Mortars	10/09/92	0801
FM 7-91	Tactical Employment of Antiarmor Platoons, Companies and Battalions	09/30/87	0802
FM 7-92	Infantry Recon Platoon and Squad (Airborne, Air Assault, Light Infantry)	12/23/92	4894
FM 7-93	Long-Range Surveillance Unit Operations	06/09/87	0804
FM 7-98/ FMFRP 7-8-1	Operations in a Low-Intensity Conflict (LIC)	10/19/92	4766
FM 21-18	Foot Marches	06/01/90	0164
FM 21-20	Physical Fitness Training	09/30/92	0165
FM 21-26	Map Reading and Land Navigation	07/05/93	0166
FM 21-60	Visual Signals	09/30/87	0173
FM 21-150	Combatives	09/30/92	0176
FM 22-5	Drill and Ceremonies	12/08/86	0178
FM 23-1	Bradley Fighting Vehicle Gunnery	03/01/91	0469
FM 23-9	M16A1 and M16A2 Rifle Marksmanship	03/07/89	0187
FM 23-10	Sniper Training and Employment	08/17/94	1335
FM 23-14	M249 Light Machine Gun in the Automatic Rifle Mode	01/26/94	1059

A second study was conducted using approximately 450 soldier volunteers of the 82d Airborne Division from Fort Bragg, North Carolina. This study was conducted under operational conditions, including nighttime jumps with full combat loads and full follow-on mis-

sions. Preliminary results revealed six times as many ankle sprains among soldiers without braces than with braces.

The ankle brace, made of an alloy of acrylic and polyvinyl chloride (PVC), was chosen for its rigidity and impact resistance. Further testing is under way

**PUBLISHED INFANTRY DOCTRINE
AND TRAINING LITERATURE (CONT'D)**

MANUAL NUMBER	TITLE	PUBLICATION DATE	DA FORM 12 BLOCK NO.
FM 23-24	Dragon Medium Antitank/Assault Weapon System, M47	04/03/90	1338
FM 23-25	Light Antiarmor Weapons	08/17/94	4321
FM 23-27	MK 19, 40-mm Grenade Machine Gun, MOD 3	12/27/88	4324
FM 23-30	Grenades and Pyrotechnic	12/27/88	0196
FM 23-31	40-mm Grenade Launcher, M203	05/01/72	0197
FM 23-34	TOW Weapon System	08/17/94	3885
FM 23-35	Combat Training with Pistols and Revolvers	10/03/88	0200
FM 23-65	Browning Machine Gun, Caliber .50, HB, M2	06/19/91	0203
FM 23-67	Machine Gun, 7.62-mm, M60	02/29/84	0204
FM(M) 23-90	Mortars (TO 11W2-5-13-21)	09/19/90	0209
FM 23-91	Mortar Gunnery	12/06/91	0470
FM 57-38	Pathfinder Operations	04/09/93	0401
FM(M) 57-220	Basic Parachuting Techniques and Training (TO 14D1-2-2/FMFM 7-41)	06/01/90	1224
FM(M) 57-230	Advanced Parachuting Techniques and Training (TO 14D1-2-1-121/FMFM 7-42)	09/13/89	1442
FM 71-2	The Tank and Mechanized Infantry Battalion Task Force	09/27/88	0506
FM 90-4	Air Assault Operations	03/16/87	0400
FM 90-5	Jungle Operations	08/16/82	0307
FM 90-8/ FMFRP 7-8-3	Counter guerrilla Operations	08/29/86	1231
FM 90-10-1	An Infantryman's Guide to Urban Combat	05/12/93	1232
FM 90-26	Airborne Operations	12/18/90	4655
STP 7-11BCHM-SM-TG	Soldier's Manual, MOS 11B/C/H/M, and Trainer's Guide, Infantryman	09/30/88	4382
STP 7-11C-SM-TG	Soldier's Manual, MOS 11C, and TG, Indirect Fire Infantryman	08/16/94	4456
STP 7-11H-SM-TG	Soldier's Manual, MOS 11H, and TG, Heavy Antiarmor Weapons Infantryman	09/30/88	4457
STP 7-11M-SM-TG	Soldier's Manual, MOS 11M, and TG, Fighting Vehicle Infantryman	09/30/88	4458
STP 7-11II-MQS	MOS II, Infantry Branch (II) Company Grade Officer's Manual	07/16/91	3407
TC 7-9	Infantry Live-Fire Training	09/30/93	5146
TC 21-3	Soldiers' Handbook for Individual Operations and Survival in Cold Weather Areas	03/17/86	1325
TC 21-21	Water Survival Training	06/30/91	4666
TC 21-24	Rappelling	09/24/91	5059
TC 23-2	90-mm Rocket Launcher, M20ZA1	04/07/78	1331
TC 23-5	Bradley Fighting Vehicle Training Devices	05/13/91	4442
TC 90-1/ FMFRP 7-15-1	Military Operations on Urbanized Terrain Training	09/30/93	3858
TC 90-6-1	Military Mountaineering	04/26/89	1444

to confirm the data before the ankle brace is fully incorporated into the airborne soldier's equipment.

THE AT8 BUNKER defeat munition has successfully completed technical design and operational testing by the

U.S. Army Armament Research, Development, and Engineering Center. During these tests, more than 200 weapons were fired against a variety of urban targets, including bunkers, light armor, and concrete walls.

The AT8 is a lightweight, disposable, multipurpose direct fire weapon

designed for urban warfare. It combines the Army's M136 launch tube and propulsion system with the warhead and fuze from the Marine Corps' shoulder-fired multipurpose assault weapon (SMAW). Because the launchers are the same, the preparation-to-fire sequence of the AT8 is identical to that of the M136, which eliminates the need for new infantry training or logistical support equipment and effort.

The AT8 has a self-discriminating fuze that enables it to distinguish between hard and soft targets. On impact with a bunker, it delays detonation until the warhead has buried itself inside the bunker wall. Against hard targets, such as light armor or walls, the fuze detonates the warhead on impact.

The weapon is expected to be type classified and fielded to the first units during Fiscal Year 1995.

THE U.S. ARMY Officer Candidate Alumni Association, Inc., is planning a membership meeting and reunion to be held at Fort Benning 27-30 April 1995. Included on the schedule will be a briefing on the current status of OCS, a visit with officer candidates, visits to the National Infantry Museum and the OCS Hall of Fame, along with a dinner, a reception, and a memorial service.

Anyone who is interested in additional information about the reunion or the Association may write to The U.S. Army Officer Candidate Alumni Association, Inc., P.O. Box 52192, Fort Benning, GA 31995-2192. Association membership dues are \$10.00 per year.

