

Reference

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Rev.

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WAR DEPARTMENT

BASIC FIELD MANUAL

**LIST OF PUBLICATIONS
FOR TRAINING, INCLUDING
TRAINING FILMS AND
FILM STRIPS**

February 1, 1942

FM 21-6

BASIC FIELD MANUAL

U.S. ARMY
LIST OF PUBLICATIONS
FOR TRAINING, INCLUDING
TRAINING FILMS AND
FILM STRIPS



February 1, 1942

UNITED STATES
GOVERNMENT PRINTING OFFICE
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WAR DEPARTMENT,
WASHINGTON, February 1, 1942.

FM 21-6, List of Publications for Training, including Training Films and Film Strips, is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

E. S. ADAMS,
Major General,
The Adjutant General.

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BASIC FIELD MANUAL

LIST OF PUBLICATIONS FOR TRAINING

(This pamphlet supersedes FM 21-6, September 1, 1941; Training Circulars Nos. 64 (section II), 65, and 69, War Department, 1941.

SECTION I

FIELD SERVICE REGULATIONS, FIELD MANUALS, AND
TECHNICAL MANUALS

■ 1. SCOPE.—This manual contains lists or references to lists of publications or matter required for military training.

■ 2. TEXTS.—The primary texts for training in schools, including extension courses, in garrison, in training centers, and in the field are War Department training publications issued, as a general rule, in the form of Field Service Regulations, Field Manuals, and Technical Manuals. Technical Regulations will eventually be eliminated by the inclusion of suitable material in other training documents.

a. *Field Service Regulations* constitute the basis of instruction of all arms and services in the operations of war and announce the basic doctrines which are expanded and applied in other texts. They contain the fundamental considerations concerning the employment of the combined arms and the combined services, and the strategical, tactical, and administrative employment of larger units and territorial commands. For convenience, Field Service Regulations are numbered in the Field Manual series.

b. *Field Manuals* constitute the primary means for expanding the basic doctrines of the Field Service Regulations. They are published in three general divisions as follows:

(1) The *Field Manuals for the several arms and services* contain instructions relative to the tactics and technique involved in the employment of such arms and services, together with data needed in the theater of operations.

(2) The *Basic Field Manuals* contain training and reference data applicable to more than one arm or service, with special reference to the smaller units.

(3) The *Staff Officers' Field Manual* is a compilation of information and data to be used as a guide for the operations in the field of the general staff or a similar staff group of all units in peace and war.

c. *Technical Manuals* consist of a series of pamphlets supplementing the Field Manuals covering subjects, the separate treatment of which is considered essential to a fuller accomplishment of the training prescribed in the Field Manual series. The scope of this series includes pamphlets describing matériel and containing instructions for the operation, care, and handling thereof; guidebooks for instructors and specialists; material for extension courses; reference books; and the like.

Blank and drill ammunition used in "basic weapons" is covered in the FM 23-series. Blank ammunition used by field artillery or antiaircraft artillery will be covered in the Technical Manual for the particular weapon. Blank ammunition for harbor defense and railway artillery will be covered in TM 9-905, when published.

■ 3. NUMBERING.—The number of each pamphlet will consist of two parts: the basic number and subnumber.

a. The *basic numbers* will be as follows:

1. Air Corps.
2. Cavalry.
3. Chemical Warfare Service.
4. Coast Artillery Corps.
5. Corps of Engineers.
6. Field Artillery.
7. Infantry.
8. Medical Department.
9. Ordnance Department.
10. Quartermaster Corps.
11. Signal Corps.
12. Adjutant General's Department.
13. Inspector General's Department.
14. Finance Department.
15. Judge Advocate General's Department.
16. Chaplains.
17. Armored Force.
18. Tank Destroyer.
19. Military Police.

- 20 to 31. Basic Field Manuals.
- 100. Field Service Regulations.
- 101. Staff Officers' Field Manual.
- 105. Umpire Manual.

b. The *subnumbers* for Field Manuals will be from 1 to 199 and for Technical Manuals 200, etc.

c. *Examples:*

FM 6-110—Field Artillery Field Manual—Pack Artillery.

FM 22-5—Basic Field Manual—Infantry Drill Regulations.

FM 100-5—Field Service Regulations—Operations.

TM 4-235—Technical Manual—Coast Artillery Target Practice.

d. *Reference.*—For references in correspondence or publications, Field Manuals and Technical Manuals will ordinarily be referred to by number only, that is, FM 6-110 or TM 4-235; if it is necessary to identify the publication further, the title will be added, that is, FM 6-110, FAFM, Pack Artillery; TM 4-235, Coast Artillery Target Practice.

■ 4. CHANGES.—a. In order that prompt recommendations may be submitted, each agency charged with the preparation of a manual will keep a folder of suggested changes. Serious errors will be reported at once.

b. *How effected.*—When the subject matter contained in a pamphlet is changed or corrected, it will be published as a change only when it is deemed inadvisable to revise and reprint the entire pamphlet.

c. *When promulgated.*—Changes will, as a general rule, be published as soon as practicable after the necessity for a change arises. The number and date of the change will follow the classification number at the end of each paragraph. A change requiring immediate attention will be published in a War Department numbered training circular (see sec. II), or as a printed change.

d. *How published.*—When printed, changes will be published on one side of the page only so that they may be cut and pasted over the matter which they change.

e. *How numbered.*—Changes will be numbered in a single series for each edition of each pamphlet, a new series being started with the first change pertaining to an edition.

f. Drafts.—Drafts of matter submitted for publication as changes will contain both the existing and the proposed matter, the matter to be omitted, with a line drawn through it, and the proposed matter underscored.

g. Minor changes.—Minor changes, such as those intended merely to change the rhetorical construction of a portion of regulations for purposes of clarity or those not involving a change of doctrine, will be allowed to accumulate and will be published in a revision of the regulations in question.

h. Changes affecting other publications.—When changes are prepared which may affect other War Department publications or portions thereof to the extent of requiring modifications of the latter, changes to the other publications so affected will be prepared and submitted at the same time.

■ 5. COPYRIGHTED MATTER.—See AR 310-10.

■ 6. HOW DISTRIBUTED.—Training publications and changes thereto will be distributed through the distributing agencies enumerated in AR 310-200.

■ 7. ALLOWANCES.—*a.* The initial distribution of pamphlets will be in accordance with the following unless otherwise directed:

(1) Ten copies of every pamphlet to the headquarters of GHQ and of each army, corps, corps area, or department.

(2) Two copies of every pamphlet to—

(a) Office of each chief of arm, service, and the National Guard Bureau.

(b) Headquarters of each division unless a larger allowance is indicated by symbols. See paragraph 19.

(c) Headquarters of each general and special service school.

(d) Headquarters of the United States Military Academy.

(e) Each arm and service board.

(3) One copy of every pamphlet for—

(a) Headquarters of each garrisoned post or camp.

(b) The official office file of the professor of military science and tactics of each educational institution maintaining Reserve Officers' Training Corps or section 55c NDA units. The reference library of each educational institution maintaining one or more units of the Reserve Officers' Training Corps is entitled to receive for each unit one copy of the training

publications pertaining to the unit. Junior Reserve Officers' Training Corps units will be given the same distribution as senior infantry units.

(4) To headquarters other than the above, as indicated opposite each pamphlet in the list under paragraph 19.

b. Individuals, headquarters, and offices may, on showing need therefor, obtain any printed pamphlet by applying to the distributing agency serving them.

■ 8. INSPECTION OF OFFICIAL FILES OF PUBLICATIONS.—*a.* Commanding officers will have all official files of military publications of their commands inspected semiannually and will require that they be kept properly posted to date. These publications will at no time be removed from the custody of the organization or office to which issued, and commanding officers will see that the publications are transferred to the successor in the office or in command.

b. Stocks or copies of any publication on hand which are in excess of current or anticipated need will be reported to the distribution agency for instructions as to disposition.

SECTION II

TRAINING CIRCULARS

■ 9. SCOPE.—The purpose of training circulars is to promulgate new doctrine for test; to issue minor changes in Field Manuals and Technical Manuals, or other training literature; and to disseminate War Department training policies from time to time. Training information that should receive wide distribution should be forwarded by all agencies charged with the formulation of training policies. This applies particularly to changes in existing Field Manuals, Technical Manuals, and Training Circulars. Changes in Army Regulations and War Department Circulars are ordinarily published in War Department numbered Circulars rather than Training Circulars.

■ 10. NUMBERING.—Training circulars will be numbered consecutively for each calendar year. For references in correspondence or publications an abbreviation such as "TC 1" (1941) may be employed.

■ 11. DISTRIBUTION.—Same as paragraph 14, AR 310-200.

SECTION III

LISTS OF PRINTED PUBLICATIONS

■ 12. ARMY REGULATIONS.—For list of Army Regulations, see AR 1-10. For Army Regulations on safety precautions, see AR 750-10 and 850-20.

■ 13. FIRING TABLES.—For list of Firing Tables, see Standard Nomenclature List No. F-69 distributed by the Ordnance Department.

■ 14. INSTRUCTION CHARTS.—Instruction charts are prepared and issued by the Ordnance Department covering ammunition and small arms. Each chart is listed in the appropriate Standard Nomenclature List, under Equipment: Articles for Instructional Purposes.

■ 15. MOBILIZATION REGULATIONS.

No.	Title	Date	Changes
MR-Gen-----	Mobilization-----	Apr. 1, 1940	
MR 1-1-----	Personnel—Basic Instructions-----	Sept. 1, 1939	C 1.
1-2-----	Personnel Requirements—Computing, Reporting, and Establishing.	July 15, 1939	C 2.
1-3-----	Officers—Personnel Procedures-----	Oct. 30, 1939	C 1, 2.
(Old) 1-7 ¹ -----	Wartime Classification of Commissioned Personnel	Oct. 15, 1934	C 1.
1-4-----	Officer Candidates—Personnel Procedures-----	Oct. 25, 1939	C 1.
1-5-----	Procurement and Reception of Volunteers during Mobilization.	Oct. 1, 1940	
1-7-----	Reception of Selective Service Men-----	Oct. 1, 1940	C 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18.
1-8-----	Enlisted Men—Classification, Assignment, Reclas- sification, and Reassignment, and Separation from the Service.	Sept. 18, 1940	
1-9-----	Standards of Physical Examination during Mobil- ization.	Aug. 31, 1940	C 1.
1-10-----	Morale-----	Oct. 21, 1939	
1-11-----	Certain Categories of Personnel-----	Apr. 1, 1940	
2-1-----	Military Intelligence-----	Oct. 1, 1938	
3-1-----	Organization and Training-----	Nov. 23, 1940	
4-1-----	Supply; Construction; Transportation-----	Jan. 5, 1940	C 1.
4-2-----	Hospitalization-----	Feb. 13, 1940	C 1.

¹ Will eventually be superseded by MR 1-3.

■ 16. MOBILIZATION TRAINING PROGRAMS.

No.	Title	Date	Changes
MTP 1-1-----	Air Corps Mobilization Training Program for Air Corps squadrons at Unit Training Centers for Air Corps Recruit Reception Centers and for Enlisted Replacement Centers.	Dec. 20, 1940	
2-1-----	Cavalry Mobilization Programs for cavalry units at Unit Training Centers.	Oct. 1, 1940	C 1, 2.
2-2-----	Cavalry Mobilization Training Program for cavalry replacements at Cavalry Replacement Training Centers.	July 22, 1941	
3-1-----	Chemical Warfare Mobilization Training Programs for chemical regiments at Unit Training Centers and for chemical troop replacements at Enlisted Replacement Centers.	Sept. 18, 1940	
3-2-----	Chemical Warfare Mobilization Training Programs for chemical warfare service units at Unit Training Centers and for service company replacements at Enlisted Replacement Centers.	Sept. 19, 1940	
3-3-----	Chemical Warfare Mobilization Training Program for Enlisted Replacements at Chemical Warfare Replacement Training Centers.	Nov. 26, 1941	
4-1-----	Coast Artillery Mobilization Training Program for Coast Artillery Replacements at Coast Artillery Replacement Training Centers.	Oct. 2, 1941	
4-2-----	Coast Artillery Mobilization Training Program for harbor defense regiments, Coast Artillery Corps, at Unit Training Centers.	Sept. 4, 1940	

4-3-----	Coast Artillery Mobilization Training Program for antiaircraft artillery regiments (mobile), Coast Artillery Corps, at Unit Training Centers.	Sept. 5, 1940
4-4-----	Coast Artillery Mobilization Training Program for railway artillery regiments (excepting 12-inch and 14-inch guns, Coast Artillery Corps, at Unit Training Centers.	Aug. 26, 1940
4-5-----	Coast Artillery Mobilization Training Program for railway artillery regiments (12-inch and 14-inch guns), Coast Artillery Corps, at Unit Training Centers.	-----do-----
4-6-----	Coast Artillery Mobilization Training Program for 155-mm gun regiments (tractor-drawn), Coast Artillery Corps, at Unit Training Centers.	Sept. 5, 1940
4-7-----	Coast Artillery Mobilization Training Program for barrage balloon units at Unit Training Centers.	June 21, 1941
5-1-----	Engineer Mobilization Training Programs for engineer troops at Unit Training Centers.	Dec. 19, 1941
5-2-----	Engineer Mobilization Training Program for Engineer Replacements at Engineer Replacement Training Centers.	Dec. 20, 1941
6-1-----	Field Artillery Mobilization Training Programs for field artillery regiments at Unit Training Centers and for field artillery replacements at Enlisted Replacement Centers.	July 25, 1940
7-1-----	Infantry Mobilization Training Programs for infantry regiments at Unit Training Centers and for infantry replacements at Enlisted Replacement Centers.	Sept. 26, 1940

C 1.

C 1.

No.	Title	Date	Changes
7-2-----	Infantry Mobilization Training Programs for infantry battalion, antitank, at Unit Training Centers.	Oct. 1, 1940	
7-3-----	Infantry Mobilization Training Programs for infantry replacements at Enlisted Replacement Centers.	Mar. 1, 1941	
8-1-----	Medical Department Mobilization Training Program for Medical Department units at Unit Training Centers and Medical Department replacements at Enlisted Replacement Centers.	Sept. 9, 1940	
8-5-----	Medical Department Mobilization Training Program for Medical Replacement Training Centers.	Nov. 17, 1941	
9-1-----	Ordnance Mobilization Training Program for Ordnance Department enlisted replacements at Ordnance Replacement Training Centers.	Aug. 21, 1941	
9-2-----	Ordnance Mobilization Training Program for ordnance company, maintenance, at Unit Training Centers.	Oct. 1, 1940	C I.
9-3-----	Ordnance Mobilization Training Program for ordnance company, ammunition, at Unit Training Centers.	Oct. 15, 1940	C I.
9-4-----	Ordnance Mobilization Training Program for ordnance company, depot, at Unit Training Centers.	Oct. 1, 1940	C I.

9-5-----	Ordnance Department Mobilization Training Program for the ordnance company, aviation, air base.	June 30, 1941
9-6-----	Ordnance Department Mobilization Training Program for the ordnance company, aviation, bombardment.	-----do-----
9-7-----	Ordnance Department Mobilization Training Program for the ordnance company, aviation, pursuit.	-----do-----
10-1-----	Quartermaster Mobilization Training Programs for quartermaster units at Training Centers and for replacements at Enlisted Replacement Centers.	Oct. 1, 1940
10-2-----	Quartermaster Mobilization Training Programs for quartermaster replacements at Quartermaster Replacement Training Centers.	July 25, 1941
11-1-----	Signal Corps Mobilization Training Programs for Signal Corps units, Ground Forces, at Unit Training Centers.	Jan. 13, 1942
11-2-----	Signal Corps Mobilization Training Program for Signal Corps enlisted replacements at Signal Corps Replacement Training Centers.	Aug. 4, 1941
11-3-----	Signal Corps Mobilization Training Programs for Signal Corps Units, Air Forces, at Unit Training Centers.	Jan. 16, 1942
14-1-----	Finance Department Mobilization Training Program for Enlisted Replacements at Finance Department Replacement Training Centers.	Jan. 9, 1942
17-1-----	Armored Force Mobilization Training Program for Armored Force Replacements at Armored Force Replacement Training Centers.	Jan. 31, 1942

No.	Title	Date	Changes
19-1-----	Military Police Mobilization Training Program for Military Police Units (ZI).	Jan. 13, 1942	
20-1-----	Special Training Units, Mobilization Training Program for special training units at Replacement Training Centers.	July 17, 1941	
20-2-----	Mobilization Training Program for Enlisted Replacements at Branch Immaterial Replacement Training Centers.	Dec. 31, 1941	

■ 17 TABLES OF BASIC ALLOWANCES AND ALLOWANCES.

No.	Title	Date	Changes
T/BA 1-----	Air Corps-----	Oct. 1, 1941	C 1.
2-----	Cavalry-----	do-----	C 1.
3-----	Chemical Warfare Service-----	do-----	C 1, 2.
4-----	Coast Artillery Corps-----	do-----	C 1.
5-----	Corps of Engineers-----	do-----	C 1.
6-----	Field Artillery-----	do-----	C 1.
7-----	Infantry-----	do-----	C 1.
8-----	Medical Department-----	do-----	C 1.
9-----	Ordnance Department-----	do-----	C 1.

10	Quartermaster Corps	do	C 1.
11	Signal Corps	do	C 1, 2, 3.
17	Armored Force	do	C 1, 2.
17T	Armored Force (Armored Division only)	Jan. 26, 1942	
18	Tank Destroyer	Dec. 1, 1941	
19	Military Police	Oct. 1, 1941	C 1.
21	Quartermaster Clothing and Individual Equipment.	do	C 1, 2, 3.
T/A	Animals for Schools, Replacement Training Centers, and Administrative Overhead, Continental United States and for Oversea Garrisons. Targets and Target Equipment	July 15, 1941	
		Oct. 10, 1939	C 1, 2, 3, 4, 5.
1-1	Air Corps Replacement Training Center (Technician).	Dec. 1, 1941	
1-2	Air Corps Advanced Flying School (Single Engine and Twin Engine), Basic Flying School, and Air Navigation School.	Nov. 20, 1941	
2-1	Cavalry Replacement Training Center	Oct. 1, 1941	C 1.
2-2	Cavalry School	Aug. 15, 1941	C 1, 2.
2-25	United States Military Academy, Cavalry Squadron, and Cavalry Detachment, Fort Myer, Virginia.	Oct. 1, 1941	C 1.
3-1	Chemical Warfare Service Replacement Training Center.	do	C 1, 2.
3-2	Chemical Warfare School	Aug. 1, 1941	C 1.
4-1	Coast Artillery Replacement Training Centers	Oct. 1, 1941	
5-1	Engineer Replacement Training Centers	do	C 1.
5-2	Engineer School	do	
6-1	Field Artillery Replacement Training Center	do	C 1.
6-2	Field Artillery School and Field Artillery Board	do	C 1.

No.	Title	Date	Changes
7-1	Infantry Replacement Training Centers.....	Oct. 1, 1941	C 1.
7-2	Infantry School and Infantry Board.....	do	
8-1	Medical Department Replacement Training Centers.	do	C 1.
8-2	Medical Field Service School.....	do	
9-1	Ordnance Replacement Training Center.....	do	
9-2	Ordnance School.....	do	
10-1	Quartermaster Replacement Training Centers.....	do	C 1.
10-2	Quartermaster School.....	do	
10-4	Quartermaster Motor Transport Specialist Schools	do	
11-1	Signal Corps Replacement Training Center.....	do	C 1, 2.
11-2	Signal Corps School.....	do	C 1.
17-1	Armored Force Replacement Training Center.....	Jan. 26, 1942	
17-2	Armored Force Officer Candidates School.....	Oct. 1, 1941	
17-5	Armored Force School.....	do	
20	Equipment for Posts, Camps, and Stations Cleaning, Preserving, and Lubricating Materials, Recoil Fluids, Special Oils, and Similar Items of Issue.	do do Aug. 5, 1941	

■ 18. TABLES OF ORGANIZATIONS.—See list of Tables of Organization, October 1, 1941.

■ 19. TRAINING PUBLICATIONS.—*a. General.*—(1) The lists below show the pamphlets other than confidential or secret, published to date by number, title, and date of publication, the number of the changes thereto, together with symbols indicating the distribution of each pamphlet.

(2) *Explanation of symbols.*—A combination of letters, indicating the headquarters of organizations and numbers, indicating the specific arms or services to which the distribution is limited, is used. The meanings of these are as follows:

(a) *Letters.* (See also (d) and (e) below.)

D.—Headquarters of divisions. If more than two copies are issued, see paragraph 7a(2)(b).

B.—Headquarters of brigades.

R.—Headquarters of regiments.

Bn.—Headquarters of battalions or similar organizations.

C.—Headquarters of companies and similar units.

I.—Used in combination with the above letters indicates the pamphlet is to be issued to interested organizations only.

H or *L.*—*H* used in combination with the above letters indicates that the pamphlet will be issued to the particular organization specified and higher headquarters; *L* to particular organization specified and lower headquarters.

X.—Special distribution as directed by the War Department.

(b) *Numbers.*

1. When *not* in parentheses, numbers are used to indicate the various arms and services as follows:

1. Air Corps.
2. Cavalry.
3. Chemical Warfare Service.
4. Coast Artillery Corps.
5. Corps of Engineers.

6. Field Artillery.
7. Infantry.
8. Medical Department.
9. Ordnance Department.
10. Quartermaster Corps.
11. Signal Corps.
12. Adjutant General's Department.
13. Inspector General's Department.
14. Finance Department.
15. Judge Advocate General's Department.
16. Chaplains.
17. Armored Force.
18. Tank Destroyer.
19. Military Police.

2. When in parentheses numbers indicate the number of copies to be furnished.

(c) Where a letter is not followed by any numbers, it indicates that the pamphlet is distributed to all the headquarters described by that letter. Numbers following a letter indicate that the distribution is limited to the headquarters of organizations of those arms and services identified by the numbers. Where a dash (—) is used between numbers, it indicates that all the serial numbers between the end numbers are included in the distribution.

(d) The distribution for Air Corps units will be on the following basis:

Headquarters, Air Force Combat Command, air forces,
and air bases—same distribution as for divisions;
Wings—same as for brigades;
Groups—same as for regiments;
Squadrons—same as for battalions;
Separate flights or detachments—same as for com-
panies.

(e) Distribution for medical installations will be on the following basis:

Hospital center	} Same as for divisions.
General hospital	
Medical Department	
concentration center	

Auxiliary surgical hospital	}	Same as for brigades.		
General dispensary				
Hospital train				
Medical laboratory, army or communications zone				
Medical examining unit, aviation				
Medical laboratory, general				
Medical supply depot, army or communications zone				
Station hospital, communications zone or zone of interior (symbol <i>SH</i>)	}	Same as for regiments.		
25 beds or under as noted for <i>SH</i> under distribution of manual.				
50 beds or under, twice the num- ber noted.				
100 beds or under, three times the number noted.				
200 beds or under, four times the number noted.				
500 beds or under, five times the number noted.				
1,000 beds or under, six times the number noted.				
2,000 beds or under, ten times the number noted.				
Surgical hospital			}	(Symbol <i>M</i>).
Evacuation hospital				
Veterinary station hospital				
Veterinary evacuation hospital				
Veterinary general hospital				
Convalescent camp				
Convalescent hospital				
Veterinary convalescent hospital				
Attached medical and veterinary detachments—same as for companies.				

(3) *Example of symbols.*—A pamphlet with distribution symbols D (8); B 7 (2); R 4, 6, and 7 (10); IR 5 (10); Bn 3, 4, 6, 7, and 9 (3); IBn 5 (3); IC 3-7 (10); C 9 (2). Distribution in addition to that provided in paragraph 7a as follows:

(a) D (8).

1. Eight copies to the headquarters of all divisions.
2. Eight copies to each hospital center, general hospital, Medical Department Concentration Center.
3. Eight copies to the headquarters, Air Force Combat Command and to each air base headquarters.

(b) B 7 (2).

1. Two copies to the headquarters of all infantry brigades.
2. Two copies to each of the offices of G-1, G-2, G-3, and G-4 infantry brigade headquarters.

(c) R 4, 6, and 7 (10); IR 5 (10).

Ten copies to the headquarters of each coast artillery, field artillery, and infantry regiment and to each interested engineer regiment.

(d) Bn 3, 4, 6, 7, and 9 (3); IBn 5 (3).

Three copies to the headquarters of each chemical warfare, coast artillery, field artillery, infantry, and ordnance battalion, and to each interested engineer battalion.

(e) IC 3-7 (10); C 9 (2).

Ten copies to each interested chemical warfare, coast artillery, engineer, field artillery, and infantry company or similar unit, and two copies to each ordnance company.

b. Field Manuals.—The numbers to be assigned to the pamphlets which have not as yet been numbered in the new series are shown in parentheses in the first column.

No.	Title	Date	Changes	Distribution
FM 1-5-----	AIR CORPS FIELD MANUAL Employment of Aviation of the Army.	Apr. 15, 1940	-----	R and H 1-7, and 17 (6); Bn 1 (8), 17 (5); IBn 7 (5); IC 7 (5); 11 (2).
1-10-----	Tactics and Technique of Air Attack.	Nov. 20, 1940	-----	R and H 1-7, and 17 (6); Bn 1 (8), 17 (5); IBn 7 (5); IC 7 and 11 (5).
1-15-----	Tactics and Technique of Air Fighting.	Sept. 9, 1940	-----	Do.
1-20-----	Tactics and Technique of Air Reconnaissance and Observation.	Feb. 10, 1941	-----	Do.
1-30-----	Air Navigation-----	Aug. 30, 1940	-----	B and H 1 (6); R 1 (4); Bn 1 (4).
1-35-----	Aerial Photography-----	Dec. 20, 1940	-----	D (3); B 1 (6), 2, 4, 6, 7, and 17 (2); R 1 (4), 2, 4-7, 10, and 17 (3); Bn 1, 2, 4-7 and 17 (3); IBn 1 (6); IC 1 and 11 (5).
1-40-----	Intelligence Procedure in Aviation Units.	Sept. 9, 1940	-----	B and H 1 (6); B 7 and 17 (6), 2, 4, and 6, (2); R 1 (4), 7 and 17 (5); IR 4 (3); Bn 1 (4), 7 and 17 (2); IC 11 (2).

No.	Title	Date	Changes	Distribution
1-45-----	Signal Communication---	Sept. 5, 1940	-----	B and H (6); R 1, 5, and 17 (4); Bn 1, 5, and 17 (4); C 5 (2); IC 11 (10).
1-60-----	Reviews and Inspections. CAVALRY FIELD MANUAL	Apr. 4, 1941	-----	Bn and H 1 (6); IR 5 (5); IBn 9 and 11 (3); IC 5, 8, 9, and 11 (2).
2-5-----	Horse Cavalry-----	Aug. 6, 1940	*C1-----	B and H 2 (5); R 2 (10); R and H 1, 6, 7, and 17 (2); Bn 2 (5); IBn 5 and 6 (5); C 2 (3); IC 2 (20), 11 (2).
2-10-----	Mechanized Elements-----	Apr. 8, 1941	-----	B and H 1, 2, and 17 (5), 4, 6, and 7 (2); R 1 and 17 (5), 2 (10), 7 (2); IR 5 and 6 (5); Bn 2 and 17 (5); IBn 5 and 6 (5), 8 and 10 (2); C 2 (2); IC 2 (20), 6, 9, and 11 (2).
2-15-----	Employment of Cavalry-----	do-----	*C1-----	B and H 1, 2, and 17 (5), 4, 6, and 7 (2); R 1 and 17 (5), 2 (10), 7 (2); IR 5 and 6 (5); Bn 2 and 17 (5); IBn 5 and 6 (5), 8 and 10 (2); C 2 (2); IC 2

(20), 5, 6, 7, 9, and 11 (2).					
					Bn and H (5); IC 3 (15).
(3-5)-----	CHEMICAL WARFARE SERVICE FIELD MANUAL	Aug. 1, 1938			B 2; R 2, 7, and 17 (5); Bn and H 3 (5); IC 2, 7, and 17 (10), 3 (15).
3-10-----	Vol. I, Tactics and Technique. Examination for Gunners.	June 10, 1940			D (5); B (3); IR 2, 7, 10, and 17 (3); Bn and H 3 (3); C 3 (2).
3-15-----	Supply and Field Service.	Feb. 17, 1941		*C1----	
	COAST ARTILLERY FIELD MANUAL				
4-5-----	Seacoast Artillery: Organization and Tactics.	July 29, 1940		*C1----	IBn and H 4 (5); IC 4 (3).
4-10-----	Gunnery-----	July 3, 1940			Do.
4-15-----	Fire Control and Position Finding.	July 29, 1940			IBn and H 4 (5); C 4 (15).
4-20-----	Formations, Inspections, Service, and Care of Matériel.	Apr. 10, 1940		*C1----	IBn and H 4 (5); IC 4 (25).
4-25-----	Service of the Piece—155-mm Gun.	do			Do.

Changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

No.	Title	Date	Changes	Distribution
4-35	Seacoast Artillery—Con. 14-inch Gun, M1920- MII on Railway Mount, M1920.	June 15, 1940	*C1	IBn and H 4 (3); IC 4 (25).
4-40	12-inch Mortar, Rail- way Artillery.	May 20, 1940	*C1	IBn and H 4 (5); IC 4 (25).
4-45	12-inch Gun, Rail- way Mount, M1918, Railway Artillery.	Apr. 10, 1940	*C1	Do.
4-50	8-inch Gun, Railway Artillery.	May 15, 1940		Do.
4-55	12-inch Mortar (Fixed Armament).	do.		Do.
4-60	12-inch Gun (Bar- bette Carriage).	do.		Do.
4-65	10-inch Gun (Disap- pearing Carriage).	Apr. 10, 1940		Do.
4-70	6-inch Gun (Disap- pearing Carriage).	May 1, 1940		Do.
4-75	6-inch Gun on Bar- bette Carriage.	Apr. 10, 1940		Do.
4-80	12- and 14-inch Guns (Disappearing Car- riage).	May 1, 1940		Do.
4-85	16-inch Gun and Howitzer.	June 20, 1940	*C1	Do.

4-90-----	3-inch Rapid-fire Gun (Barbette Carriage).	May 20, 1940	-----	Do.
4-105-----	Antiaircraft Artillery: Organization and Tactics.	Aug. 12, 1940	(1)	Bn and H 4 (3) 17 (2); IBn and H 4 (5); IC 4 (15).
4-110-----	Gunnery, Fire Control, and Position Finding, Antiaircraft Guns.	Aug. 10, 1940	C1-----	B 1 (2); Bn and H 4 (3); IBn and H 4 (5); IC 4 (15).
4-111-----	Position Finding and Control Antiaircraft Searchlights.	July 6, 1940	-----	R and H 1 (2); Bn and H 4 (3); IBn and H 4 (5); IC 4 (25).
4-112-----	Gunnery, Fire Control, and Position Finding, Antiaircraft Automatic Weapons.	July 12, 1940	-----	R and H 1 (2); Bn and H 4 (3); IBn and H 4 (5); IC 4 (25).
4-115-----	Operation of Matériel and Employment of Personnel, Antiaircraft Searchlight Units.	June 20, 1940	C1-----	Do.
4-120-----	Formations, Inspections, Service and Care of Matériel.	July 16, 1940	*C1-----	Bn and H 4 (3); IBn and H 4 (5); IC 4 (25).

Changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

† Training Circular No. 9, War Department, 1941.

No.	Title	Date	Changes	Distribution
†4-125	Antiaircraft Artillery— Continued Service of the Piece— 3-inch Antiaircraft Gun.	Jan. 17, 1942	-----	B 1 (2); Bn and H 4 (3); IBn and H 4 (5); IC 4 (25).
4-130	105-mm Antiaircraft Gun.	June 17, 1940	-----	B 1 (2); IBn and H 4 (5); IC 4 (25).
4-135	Marksmanship and Service of the Piece—Antiair- craft Machine Gun.	June 1, 1940	-----	R and H 1 and 2 (5); Bn and H 4 (3); IBn and H 4 (10); IC 4 (25).
†4-140	37-mm Antiaircraft Gun (Case I Firing).	Sept. 5, 1941	-----	Do.
4-150	Examination for Gun- ners.	May 20, 1941	-----	D (1); R 2, 4, 7, and 17 (2); Bn 4 (2); C 4 (5); IC 2, 7, and 17 (5).
4-155	Reference Data----- ENGINEER FIELD MANUAL	Oct. 1, 1940	-----	B 1 (1); R and H 4 (10); Bn and L 4 (5).
5-5	Troops and Operation-----	Jan. 31, 1941	*C1-----	B and H (3); R 5 (10); Bn 5 (5); C 5 (10).
5-10	Communications, Con-	Sept. 9, 1940	*C1-----	D (6); Bn and H 5 (5); C 5

5-15-----	struction, and Utilities. Field Fortifications-----	Oct. 1, 1940	Cl, #2-	(10). B and H 1, 2, 6, 7, and 17 (4); R and L 1-4, 6, 7, and 17 (5); Bn and H 5 (5); C 5 (10).
5-20-----	Camouflage-----	June 1, 1940	-----	D (5); B 1, 2, 4, 7, and 17 (2); R 1-7, 10, and 17 (5); Bn 1-7, 10, 11, and 17 (3); C 2-7, 10, 11, and 17 (3).
†5-25-----	Explosives and Demoli- tions.	Jan. 12, 1942	-----	B and H 1 (4), 2, 4, 6, 7, and 17, (3); R 1 (4), 2-7, and 17 (6); Bn 2-7, and 17 (2); C 5 (5), 4 (1); IC 2, 3, 7, and 17 (5).
5-30-----	Engineer Antimechanized Measures.	June 10, 1940	*Cl-----	D 1 (6), 17 (10); B 1 (4), 2, 4, 6, and 7 (2), 17 (5); R 1 (4), 2, 4-7, 10, and 17 (6); Bn 1, 2, 4-8, and 10 (2), 11 (10), 17 (5); C 4, 5, 8-10 (2), 17 (5); IC 2 and 11 (2), 7 (10).
5-35-----	Reference Data-----	Feb. 15, 1941	*Cl, 2--	D (5); B (3); R 2, 5, and 17 (10), 3, 6, and 7 (5); IR 4 (5); Bn 2-11, and 17 (5); C 2, 5, and 17 (10), 3, 6, 7, 9, 10, and 11 (5).

Changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

†Pamphlets marked with a dagger (†) have been revised since Sept. 1, 1941, and include all changes to date of revision.

No.	Title	Date	Changes	Distribution
6-5-----	FIELD ARTILLERY FIELD MANUAL			
6-5-----	Organization and Drill	Oct. 1, 1939	-----	D 2, 7, and 17 (5); B 17 (2); R 2, 7, 10, and 17 (2); Bn and H 6 (7); C 6 (16); IC 8 (3).
6-20-----	Tactics and Technique	July 10, 1940	C1 1-----	D 2 (5); B 2 (2); 6 (10), 17 (5); R 2, 10, and 17 (2), 6 (7), 5 and 7 (5); Bn 5 and 17 (2), 6 (7); C 6 (12).
6-40-----	Firing	Oct. 10, 1939	-----	B 2 (2), 6 (10); R 6 (7); Bn 6 (8); C 6 (16); C and H 4 (2).
6-50-----	Service of the Piece— 75-mm Gun, M1897 and M1897A4, Horse- Drawn and Truck- Drawn.	Oct. 1, 1939	-----	Bn and H 6 (4); IB 6 (10); IR 6 (6); IBn 6 (7); IC 6 (16); IC and H 9 (2).
6-55-----	75-mm Gun, M2, Horse- Drawn, and Truck- Drawn.	do-----	(2)	Do.
6-60-----	75-mm Gun, M1916 and M1916A1, Horse- Drawn and Truck- Drawn.	do-----	-----	Do.

6-65	75-mm Gun, M1917A1, Truck-Drawn.	do	Do.
6-70	75-mm Howitzer, Horse- Drawn and Truck- Drawn.	Oct. 14, 1939	Do.
*6-75	105-mm Howitzer, M2, Truck-Drawn.	Dec. 12, 1941	Bn and H 6 (4); IB 6 (10); IR 6 (6); IBn 6 (7); IC 6 (16); IC and H 9 (2).
6-80	155-mm Howitzer, M1918A1, Truck- Drawn.	Oct. 10, 1939	Do.
6-85	155-mm Gun, M1918	do	Bn and H 6 (4); IB 6 (10); IR 6 (6); IBn 6 (7); IBn and H 4 (1); IC 6 (16); IC and H 9 (2).
*6-90	155-mm Gun, M1	Jan. 17, 1942	D (2); Bn and H 6 (4); IB 6 (10); IR 6 (6); IBn 6 (7); IC 6 (16); IC and H 9 (2).
6-95	240-mm Howitzer, M1918	Jan. 2, 1940	B 2 (2), 6 (3); IBn and H 6 (7); IC 6 (16); IC and H 9 (2).
6-110	Pack Artillery.	Mar. 1, 1940	Do.
6-120	The Observation Bat- talion.	June 29, 1939	B 2 (2), 6 (3); Bn and H 6 (5); Bn 9 (2); IBn 6 (10); IC 6 (20).

Pamphlets not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

† Section III, Training Circular No. 24, War Department, 1941.

‡ Section II, Training Circular No. 71, War Department, 1941.

§ Section I, Circular No. 46, War Department, 1940.

No.	Title	Date	Changes	Distribution
6-130-----	Reference Data-----	Oct. 1, 1940	-----	B 2, 7, and 17 (3), 6 (5); R 5 and 7 (3), 6 (12), 10 (2); Bn 6 (10); IBn and H 8 (2); C 6 (16); IC and H 9 (2).
7-5-----	INFANTRY FIELD MANUAL Organization and Tactics of the Rifle Battalion and Components.	-----do-----	*C 1-----	R and H 2, 3, 5, 6, and 17 (5); 4 and 7 (10); Bn 4, 5, 6, and 7 (3); C 4 (10), 6 (2), 7 (15).
*7-25-----	Headquarters Company, Intelligence and Signal Communication, Rifle Regiment.	Sept. 4, 1941	*C1-----	B 7 (4); R 7 (5), 3, 5, 8, 10 and 17 (2); Bn 9 (2); IC 7 (15), 11 and 17 (5); C 7 (2).
7-30-----	Service Company and Medical Detachment (Supply and Evacua- tion) Rifle Regiment.	July 18, 1941	-----	B 7 and 17 (2); R 7 and 17 (5); Bn 10 (2); C 7 (2); IC 7 and 17 (15).
7-35-----	Antitank Company, Rifle Regiment.	May 23, 1941	*C1-----	D 2, 7, and 17 (5); B 2, 6, 7, and 17 (5); R 2, 5, and 6 (10), 7 and 17 (20); IBn 7 (30), 2 and 17 (5); IC 2, 7, and 17 (20).

*8-5	MEDICAL FIELD MANUAL Mobile Units of the Medical Department.	Jan. 12, 1942	R and H (2); R 8 (SH (2), M (10)); Bn 8 (5); C 8 (5).
8-10	Medical Service of the Division.	Nov. 27, 1940	R and H (2); R 8 (SH 2, M 10); Bn 8 (5); C 8 (5).
8-15	Medical Service of the Corps and Army.	Feb. 25, 1941	R and H (2); R 8 (SH 1, M 10); Bn 8 (5); C 8 (4).
8-25	Medical Service in Joint Oversea Operations.	Mar. 28, 1940	R and H (2); R 8 (SH 2, M 10); Bn 8 (5); C 8 (5).
8-35	Transportation of the Sick and Wounded.	Feb. 21, 1941	B (2); R (2), 8 (10); Bn 8 (5); C 8 (10).
8-40	Field Sanitation.	Aug. 15, 1940	C and H (5); R 8 (SH 2, M (10)); Bn 8 (10).
8-45	Records of Morbidity and Mortality (Sick and Wounded.)	Oct. 1, 1940	B and H (2), 8 (10); R 8 (10) (SH 2, M 10); Bn and L 8 (5).
8-50	Splints, Appliances, and Bandages.	Sept. 11, 1940	D 8 (10); B 8 (5); R and H (3); R 8 (SH 2, M 10); Bn 8 (10); C 8 (5).
8-55	Reference Data.	Mar. 5, 1941	D (3), 8 (10); B (2), 8 (10); R (3), 8 (SH 1, M 10); Bn 8 (3); C 8 (5).
9-5	ORDNANCE FIELD MANUAL.	Oct. 16, 1939	R and H (2); Bn 1-7, and 17 (2); Bn and L 9 (10).

Pamphlets and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

No.	Title	Date	Changes	Distribution
10-5-----	<p>QUARTERMASTER FIELD MANUAL</p> <p>Quartermaster Operations.</p>	Mar. 10, 1941	C1-----	R and H (2); R and L 10 (5); Bn 1, 3, 5, and 7 (2); IBn and H 8 (2); IC 3 (4).
11-5-----	<p>SIGNAL CORPS FIELD MANUAL</p> <p>Mission, Functions, and Signal Communication in General.</p>	Apr. 15, 1940	(1)	R and H (3); Bn 1-7, and 17 (2), 11 (10); C 11 (5); IC 1-7, and 17 (2).
†11-10-----	<p>Organization and Operations in the Infantry Divisions.</p>	Oct. 6, 1941	*C1-----	Bn and H 3-7, 9, and 10 (2); Bn 11 (10); IC 7 and 11 (10).
11-15-----	<p>Organizations and Operations in the Cavalry Division and Cavalry Corps.</p>	July 24, 1940	-----	Bn and H 2 (5); IBn 5 and 6 (5), 11 (10); IC 11 (5).
11-17-----	<p>Signal Organizations and Operations in the Armored Division and Armored Corps.</p>	Feb. 17, 1941	-----	R and H 1, 2, 7, and 17 (2); IBn 5, 6, 7, and 17 (2); Bn 11 (10); IC 11 (10).

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11-20-----	Organizations and Operations in the Corps, Army, Theater of Operations, and GHQ. ADJUTANT GENERAL'S FIELD MANUAL	Nov. 11, 1940	C1-----	D (3); B (2); Bn 11 (5); C 11 (5).
12-105-----	The Army Postal Service. ARMORED FORCE FIELD MANUAL	Nov. 12, 1940	C1, *2-	D (8); B (3); R (5); IBn (3).
*17-5-----	Armored Force Drill-----	Jan. 12, 1942	-----	D 2 and 7 (5); IR 2 and 7 (5); Bn and H 17 (5); IBn 2 and 5-10 (3); C 17 (20); IC 2 and 5-11 (5).
21-5-----	BASIC FIELD MANUAL Military Training-----	July 16, 1941	-----	R and H (10); Bn and L (5); Bn 1 (10).
21-6-----	List of Publications for Training.	Sept. 1, 1941	-----	R and H (10); Bn and L (3).
21-10-----	Military Sanitation and First Aid.	July 31, 1940	-----	B and H (5); R (10); Bn (5), 1 (10); C (15).
21-15-----	Equipment, Clothing, and Tent Pitching.	Oct. 1, 1940	C1-----	Do.

Pamphlet and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

†Pamphlet marked with a dagger (†) has been revised since Sept. 1, 1941.

‡Section II, Training Circular No. 55, War Department, 1941.

No.	Title	Date	Changes	Distribution
21-20	Physical Training	Mar. 6, 1941	-----	B (3); R (5); Bn (3), 1 (10); C (10).
21-25	Elementary Map and Aerial Photograph Reading.	Apr. 12, 1941	*C1	D (3); B 1, 2, 4, 6, 7, and 17 (2); R 1, 2-7, 10 and 17 (5); Bn 1 (10); 2-7, 11 and 17 (5), 9 and 10 (2); C 2, 5-7, and 17 (10), 1, 3, 4, 9-11 (5).
*21-26	Advanced Map and Aerial Photograph Reading.	Sept. 11, 1941	-----	D (3); B 1, 2, 4, 6, 7, and 17 (2); R 1-7, 10, and 17 (5); Bn 1 (10), 2-7, 11, and 17 (5), 9 and 10 (2); C 2, 5-7, and 17 (10), 1, 3, 4, and 9-11 (5).
†21-30	Conventional Signs, Military Symbols, and Arbitrary Sketching.	Nov. 26, 1941	-----	B and H (5); R (10); Bn (5), 1 (10); C (10).
21-35	Sketching	June 1, 1939	-----	B and H (5); R (10); Bn and L 1-11, and 17 (5).
21-40	Defense Against Chemical Attack.	May 1, 1940	(1)	B and H (5); R (10); Bn (5), 1 (10); C (10).
21-50	Military Courtesy and Discipline.	Jan. 31, 1941	*C1	R and H (10); Bn (5), 1 (20); C (20).
21-100	Soldier's Handbook	July 23, 1941 ²	-----	C and H (5); X.

21-105-----	Engineer Soldier's Handbook.	Mar. 12, 1941	-----	D 2, 7, and 17 (2); R 2, 7, and 17 (5), 5 (10); Bn 5 (3); C 5 (5); X. Bn and H (5); C (20).
22-5-----	Infantry Drill Regulations.	Aug. 4, 1941	-----	
23-5-----	U. S. Rifle, Caliber .30, M1.	July 20, 1940	*C1, 2-	C and H (5); IBn 1 (20); IC (20).
23-10-----	U. S. Rifle, Caliber .30, M1903.	Jan. 2, 1940	C1, *2-	C and H (5); IBn 1 (10); IC (20).
23-15-----	Browning Automatic Rifle, Caliber .30, M1918A2 with Bipod.	Aug. 27, 1940	C1, *2-	B 7 (2); R 3 and 7 (10); Bn 3 and 7 (5); C 7 (5); 9 (2); IC 3 (5), 7 (15).
23-20-----	Browning Automatic Rifle, Caliber .30, M1918A2 without Bipod.	Oct. 1, 1940	C1-----	B 7 (2); R 3, 4, 6, and 7 (10); IR 5 (10); Bn 3, 4, 6, 7, and 9 (3); IBn 5 (3); IC 3-7 (10); C 9 (2).
23-25-----	Bayonet, M1905-----	Jan. 2, 1940	-----	R 4 (5), 7 (15); Bn 4 and 7 (5); C 4 (10), 7 (20), 9 (2); IC and H 5 (10).
23-30-----	Hand Grenades-----	do-----	-----	B 1, 2, 7, and 17 (3); R 1 and 6 (2), 2, 3, 5, and 7 (5), 17 (3); Bn 1-3, 5-7, and 17 (3); C 2, 3, and 5 (5), 6 and 9 (2), 7 (10), 17 (3).

* Pamphlet and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk (*).

† Pamphlet marked with a dagger (†) has been revised since Sept. 1, 1941.

‡ Section II, Training Circular No. 13, War Department, 1941, section II, Training Circular No. 53, War Department, 1941, and

§ section II, Training Circular No. 5, War Department, 1942.

¶ No initial distribution of this manual was made. Replacement of copies now in hands of individuals is not contemplated.

No.	Title	Date	Changes	Distribution
23-35-----	Automatic Pistol, Caliber .45, M1911, and M1911A1.	Apr. 30, 1940	*C1-----	Bn and H (5); Bn 1 (10); C 20.
*23-36-----	Revolver, Colt, Caliber .45, M1917, and Revolver, Smith and Wesson, Caliber .45, M1917.	Oct. 20, 1941	-----	Bn and H (5); Bn 1 (10); C (10).
†23-40-----	Thompson Submachine Gun, Caliber .45, M1928A1.	Dec. 31, 1941	-----	B1 (2), 2, 6, and 17 (5), 7 (3); R 1 (2), 2 (5), 7 (3), 17 (10); IR 5 (5), 6 (10); Bn 2, 9, and 17 (5), 7 (3); IBn 1, 5, 6, and 11 (5); C 9 (2), 17 (20); IC 2 (20), 5, 6, and 11 (10), 7 (2).
23-45-----	Browning Machine Gun, Caliber .30, HB, M1919A4, Ground.	Aug. 14, 1940	C1-----	Bn and H (5); IC 2, 4-7, and 17 (15), C 9 (2).
23-50-----	Browning Machine Gun, Caliber .30, HB, M1919A4 (Mounted in Combat Vehicles).	May 6, 1940	C1, *2--	B and H 2, 7, and 17 (5); R 2 and 17 (10); IR 5 and 6 (10); IBn 2, 5, 6, 11, and 17 (5); IC 2, 5, 6, 11, and 17 (15), C 9 (2).

23-55-----	Browning Machine Gun, Caliber .30, M1917.	June 20, 1940	C1-----	B1, 2, 7, and 17 (2); R1 (2); 2, 5, and 7 (5); Bn 1 (2), 2 and 7 (5); IBn 5 and 11 (5); IC 2, 5, 7, and 11 (20), C 9 (2).
23-60-----	Browning Machine Gun, Caliber .50, HB, M2, Ground.	Sept. 25, 1940	*C1-----	R and H 2, 4, 7, and 17 (5); IR 5 and 6 (5); Bn 2, 4, 7, and 17 (3); IBn 5, 6, and 11 (5); C 2 (3), 17 (20); IC, 2, 4-7, (10), 11 (5), 3 (3), 9 (2).
23-65-----	Browning Machine Gun, Caliber .50, HB, M2 (Mounted in Combat Vehicles).	Apr. 10, 1940	(¹)	B and H 2, and 17 (5), 7 (3); R 2 and 17 (5); IR 6 (5); Bn 2 and 17 (3); IBn 6 and 11 (3); IC 2, 6, 11, and 17 (10); C 9 (2).
23-70-----	37-mm Antitank Gun, M3.	Oct. 1, 1940	(²)	R and H 2, 7, and 17 (5); IR 6 (5); IBn 2, 6, 7, and 17 (5); IC 2, 6, 7, and 17 (15); C 9 (2).

Pamphlet and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

†Pamphlet marked with a dagger (†) has been revised since Sept. 1, 1941.

‡ Training Circular No. 15, War Department, 1941, and section I, Training Circular No. 44, War Department, 1941.
 § Section II, Training Circular No. 14, War Department, 1940, Training Circular No. 15, War Department, 1941, and Training Circular No. 23, War Department, 1941.

No.	Title	Date	Changes	Distribution
23-80	37-mm Gun, Tank, M5 (Mounted in Tanks).	June 25, 1941	*C1 1--	D 2, 7, and 17 (8); R 17 (10); Bn 9 (2), 17 (5); C 9 (2), 17 (5); IC 17 (20).
23-85	60-mm Mortar, M2	July 19, 1940	(2)	B 7 (2); R 7 (5); IC 7 (10); C 9 (2).
23-90	81-mm Mortar, M1	June 20, 1940	(3)	B and H 2, 7, and 17 (3); R 2, 7, and 17 (5); Bn 2 and 7 (3); IC 2, 7, and 17 (10); C 9 (2).
24-5	Signal Communication	Nov. 1, 1939	(4)	Bn and H 1-7, and 17 (5), 11 (10); C 11 (10); IC 1-7, and 17 (10); 11 (20).
24-6	Radio Procedure	Mar. 6, 1941	*C1, 2, 3.	Bn and H 1-7, and 17 (5); Bn 11 (10); IC 1-7, and 17 (5), 11 (20).
24-10	Joint Army and Navy Radio Procedure.	Nov. 20, 1940	*C1----	D (3); B (2); R (5); Bn 1 (3); IBn 1, (15) 2, 5, 6, 11, and 17 (3); IC 1, 2, 4-7, and 9 (3), 17 (5), 11 (10).
25-5	Animal Transport	June 15, 1939	C1-----	B and H 2, 6, and 7 (5); R 2 5-8, and 10 (5); IBn and L 2, 3, 5-8, and 10 (5).

25-6-----	Dog Team Transporta- tion	Jan. 4, 1941	-----	B (2); IR 5-7 and 10 (5); IBn 5-10 (5); IC 5-11 (10).
25-10-----	Motor Transport.	Sept. 18, 1939	-----	B and H 1, 2, 6, and 7 (5); R (10); Bn (5); C 5, 11, and 17 (10); IC 2, 4, 6-10 (10).
26-5-----	Interior Guard Duty	Jan. 2, 1940	*C1-----	Bn and H (5); C (20).
27-5-----	Military Government	July 30, 1940	-----	D (20); Bn and H (2).
27-10-----	Rules of Land Warfare	Oct. 1, 1940	-----	R and H (5); Bn (3).
27-15-----	Military Law, Domestic Disturbances.	Feb. 6, 1941	*C1-----	R and H (5); Bn and L (3).
28-5-----	The Band	Mar. 31, 1941	-----	B and H (2); R (3); IC (10).
*29-5-----	Military Police	Dec. 8, 1941	-----	R and H (2); IBn and L 2 and 17 (10), 7 (15).
30-5-----	Military Intelligence:	Apr. 17, 1940	C1-----	Bn and H (5); C (2); IC (5).
30-10-----	Combat Intelligence	Nov. 30, 1940	-----	Do.
30-15-----	Observation	July 22, 1940	-----	Do.
	Examination of Enemy Personnel, Repatriates, Documents, and Ma- tériel.		-----	
30-20-----	Military Maps	May 27, 1940	C1-----	Do.

Pamphlet and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

¹ Section I, Training Circular No. 63, War Department, 1941.

² Section III, Training Circular No. 13, War Department, 1941, section II, Training Circular No. 24, War Department, 1941, and section I, Training Circular No. 61, War Department, 1941.

³ Section III, Training Circular No. 4, War Department, 1941, section IV, Training Circular No. 13, War Department, 1941, section II, Training Circular No. 24, War Department, 1941, and section II, Training Circular No. 61, War Department, 1941.

⁴ Training Circular No. 3, War Department, 1941, and section II, Training Circular No. 28, War Department, 1941.

No.	Title	Date	Changes	Distribution
30-21-----	Military Intelligence—Con. Role of Aerial Photog- raphy.	Nov. 1, 1940	-----	Bn and H (5); C (2); IC (5).
30-25-----	Counterintelligence-----	Feb. 15, 1940	*C1-----	Do.
*30-26-----	Regulations for Corre- spondents Accompany- ing U. S. Army Forces in the Field.	Jan. 21, 1942	-----	X.
30-30-----	Identification of U. S. Government Aircraft.	Sept. 18, 1940	C1-----	B and H (5); R (10); Bn and L (5); C 4 (20), 17 (10), 11 (2); IC 11 (50).
30-34-----	Identification of Soviet- Russian Aircraft.	July 18, 1941	-----	X.
30-35-----	Identification of German Aircraft.	July 5, 1941	-----	X.
30-38-----	Identification of Japa- nese Aircraft.	Mar. 10, 1941	-----	X.
*30-39-----	Identification of Italian Aircraft.	Oct. 24, 1941	-----	X.
30-40-----	Identification of United States Armored Ve- hicles.	May 21, 1941	-----	D (3); B (5); R 1, 3, 4, and 10 (5), 2, 5-7, and 17 (10); Bn 2, 5-7, and 9 (10), 17 (15); IBn 7 (15); C 2, 3, 6, 7, and 9 (5), 17 (15); IC 2 and 7 (15).

				Do.
30-42	Identification of Foreign Armored Vehicles, German, Japanese, Russian, Italian, and French.	June 20, 1941		
*30-50	Identification of United States Naval Vessels.	Oct. 11, 1941		R and H 1 (6); IR 4 (5); IBn 1 (4), 4 (3); IC 4 (10).
*30-51	Identification of British Naval Ships.	Dec. 29, 1941		R and H 1 (10), 4 (3); I Bn 1 (15), 4 (5); IC 4 (5).
30-55	Identification of German Naval Ships.	June 19, 1941		R and H 1 (10), 4 (3); IBn 1 (15); IC and H 4 (5).
*30-58	Identification of Japanese Naval Vessels.	-----do-----		D 1 (6); B 1 and 4 (5); R 1 (10); IR 4 (5); IBn 1 (10), 4 (3); IC 4 (15).
31-10	Coast Defense	July 12, 1941		D (6); B (5); IB 1, 4, 6, and 17 (10); R 1-7, 10, and 17 (10); Bn 9 and 11 (3).
*31-15	Operations in Snow and Extreme Cold.	Sept. 18, 1941		B and H (6); R and L (3).
*31-20	Jungle Warfare	Dec. 15, 1941		B and H (6); R and L (3).
	FIELD SERVICE REGULATIONS			
100-5	Operations	May 22, 1941		R and H (10); Bn and L (5).
100-10	Administration	Dec. 9, 1940	(1)	Do.

Pamphlets and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

1 Paragraph 1, section II, Training Circular No. 73, War Department, 1941.

No.	Title	Date	Changes	Distribution
	STAFF OFFICERS' FIELD MANUAL			
101-5-----	The Staff and Combat Orders.	Aug. 19, 1940	(1)	R and H (10); Bn L (5).
101-10-----	Organization, Technical and Logistical Data.	June 15, 1941	(2)	D (15); B (10); R (10); Bn (5).
<i>c. Technical Manuals.</i>				
TM 1-205-----	Air Navigation-----	Nov. 25, 1940	-----	B and H 1 (6); R 1 (4); Bn 1 (4).
1-206-----	Celestial Air Navigation--	Mar. 4, 1941	(2)	D 1 (6); B 1 (6); R 1 (5); I Bn 1 (10).
1-219-----	Basic Photography-----	July 1, 1941	-----	B (2); R and H 1 (6); R 2, 4, 6, 7, 10, and 17 (2), 5 (5); Bn 1, 5, and 11 (2); IBn 1 (10); C 11 (2).
1-220-----	Aerial Photography-----	July 8, 1941	-----	Do.
1-221-----	Tables of Coverage and Tables for Construction of Polyconic Projections for Aerial Photography.	July 16, 1941	-----	Do.

1-230	Weather Manual for Pilots.	May 27, 1940	R and H 1 (6); 4 (5); IBn 1 and 4 (10).
1-250	Precision Bombing Practice.	Mar. 7, 1941	R and H 1 (6); IBn 1 (10).
1-251	Handbook for Bombardiers.	Mar. 31, 1941	R and H 1 (6); IBn 1 (10); Bn 9 (2); IC 9 (2).
1-270	Aerial Gunnery Practice and Record Firing.	Apr. 10, 1941	R and H 1 (6); Bn 1 (10).
1-305	Theory of Ballooning.	Apr. 25, 1940	IBn and H 1 (5); B 4 (3).
1-315	Hydrogen.	Oct. 1, 1940	B 1 (3); IR 1 (3); R 3 (3); IBn and H 4 (3); Bn and L 3 (2).
1-320	Airship Aerodynamics.	Feb. 11, 1940	R and H 1 (3); IBn 1 (5).
1-325	Aerostatics.	Oct. 1, 1940	Bn and H 1 and 4 (3).
1-400	Theory of Flight.	Feb. 24, 1940	B and H 1 (6); R and L 1 (1).
†1-405	Aircraft Engines.	Dec. 9, 1941	B and H 1 and 17 (5); R 1 and 17 (10); Bn 1, 9, and 17 (5); IBn 1 (10); IC 9 and 17 (5).
1-406	Aircraft Electrical Systems.	Oct. 18, 1940	Bn and H 1 (6); Bn 9 and 11 (2); IBn 1 (10); IC 9 and 11 (3).
†1-407	Aircraft Induction, Fuel, and Oil Systems.	Nov. 4, 1941	Bn and H 1 and 17 (6); IBn 1 (10); Bn 9 (2); IC 9 (2).
†1-408	Aircraft Engine Operation and Test.	Dec. 24, 1941	Do.

†Pamphlets marked with a dagger (†) have been revised since Sept. 1, 1941.

1 Paragraph 2, section II, Training Circular No. 73, War Department, 1941.

2 Section II, Training Circular No. 1, War Department, 1942.

3 Section II, Training Circular No. 43, War Department, 1941.

4 Section I, Training Circular No. 29, War Department, 1941.

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No.	Title	Date	Changes	Distribution
1-409	Aircraft Armament and Pyrotechnics.	July 30, 1941	---	R and H 1 (6); Bn 1 (10); IC 3 and 9 (5).
†1-410	Airplane Structures	Oct. 29, 1941	---	Bn and H 1 (6); IBn 1 (10); Bn 9 and 11 (3); IC 9 and 11 (2).
†1-411	Airplane Hydraulic Systems and Miscellaneous Equipment.	Oct. 20, 1941	---	Bn and H 1 (6); IBn 1 (10); Bn 9 (2); IC 9 (3).
1-412	Aircraft Propellers	Oct. 21, 1940	C1	Do.
1-413	Aircraft Instruments	Nov. 7, 1940	---	Bn and H 1 (6); IBn 1 (10); Bn 9 (2); IC 9 (3).
1-415	Airplane Inspection Guide	Mar. 24, 1941	---	R and H 1 (6); Bn 1 (10); 9 (2); IC 9 (2).
1-420	Lathes	Nov. 29, 1940	---	Bn and H 1 (1); Bn 9 (2); IBn 1 (10); 10 (3); Bn and L 5 (5); IC 9 and 10 (5).
1-421	Milling, Machines, Shapers, and Planers.	July 12, 1941	---	Do.
1-422	Grinding Machines	Nov. 26, 1940	---	Do.
*1-423	Heat Treating and Inspection of Metals.	Sept. 10, 1941	---	Do.
1-430	Welding	Feb. 20, 1941	---	Do.
1-435	Aircraft Sheet Metal Work.	Feb. 10, 1941	*C1	Do.
1-440	Parachutes, Aircraft Fabrics, and Clothing.	Jan. 10, 1941	---	Bn and H 1 (6); IBn 1 (10).

1-445	Link Trainer Operation and Training.	Sept. 7, 1940		Bn and H 1 (6); IR and L 8 (2).
1-455	Electrical Fundamentals	Jan. 27, 1941	*C1	B (2); R 1, 4-6, and 17 (5); Bn 1, 4-6, 11, and 17 (5); IBn 1 (10); C 4, 5, and 11 (5); 1 C 6 and 17 (5). Bn and H 1 (6); 2, 4-7, and 17 (5); IC 11 (5).
1-460	Radiotelephone Procedure, Air Corps.	Mar. 21, 1941		D (3); B (2); R (5) 1 (10); Bn 1 (3); IBn 1 (15), 2, 5, 6, 11, and 17 (3); IC 1, 2, 4-7, and 9 (3), 17 (5), 11 (10).
*1-465	Air-Ground Communication.	Dec. 2, 1941		D (2); Bn and H 1 (6); 17 (4); IBn 1 (10).
1-490	Electrical Armament Controls.	May 19, 1941		R and H 1 (6); Bn 1 (10), 9 (2); IC 9 (3).
1-495	Aircraft Machine-gun Sights.	Mar. 26, 1941		R and H 1 (6); IBn 1 (10); Bn 9 (2); IC 9 (2).
1-500	Bomb Racks, Tow Target Equipment, and Flare Racks.	May 2, 1941		Bn and H 1 (6).
1-505	Aircraft Cameras (Machine Gun).	Mar. 7, 1941		R and H 1 (6); Bn 1 (1), 9 (2); IBn 1 (5); IC 9 (2).
1-510	Synchronizing	Apr. 25, 1941		B and H (2); Bn and H 1 (6); IR 5 (2), 8 (SH 5); IC 8 (2); IC and H 7 (5).
1-705	Physiological Aspects of Flying and Maintenance of Physical Fitness.	July 25, 1941		

† Pamphlets marked with a dagger (†) have been revised since Sept. 1, 1941.

* Pamphlets and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk (*).

c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
2-220	The Horseshoer.	Mar. 11, 1941		D 2 (3); B 2 and 6 (2); IR 2, 5, and 6 (5); IBn 2, 5 and 6 (2); IC 2, 5, 6, 8, and 10 (5).
*3-205	The Gas Mask	Oct. 9, 1941		C and H (5).
3-215	Military Chemistry and Chemical Agents.	Oct. 1, 1940		R 3 (10); Bn 3 (5); C and H (2); C 3 (15).
3-240	Meteorology	Aug. 6, 1940		R and H (3); R 3 (10); Bn 3 (5); Bn and L (1); IC 3 (15).
3-250	Storage and Shipment of Dangerous Chemicals.	Dec. 5, 1940	(1)	R and H (3); R 3 (10); Bn and L 3 (3); IC 3 (10).
3-305	Use of Smokes and Lacrimators in Training.	July 5, 1940		R and H (3); R 3 (10); Bn 2-7 (5), 9 and 11 (2), 17 (10); IC 3 (5).
4-205	Coast Artillery Ammunition.	Feb. 17, 1940		B 4 (3); R 4 (4); Bn 4 (3), 6 (2); C 4 (5), 9 (2).
4-210	Coast Artillery Weapons and Matériel.	Mar. 1, 1940	C1, 2	Do.
4-225	Orientation	July 15, 1941		B 4 and 6 (5); R 4 (5); Bn 4 (5); IBn 6 (5); C 4 (2); IC 4 and 6 (5).
4-235	Coast Artillery Target Practice.	Feb. 27, 1941	C1 ²	B (2); R and L 4 (10).
*4-240	Meteorology for Coast Artillery.	Dec. 20, 1941		Bn and H 4 and 6 (2); IC 4 (5), 6 and 11 (3).

4-245	Preservation and Care of Seacoast Defense Materiel.	June 30, 1941	-----	C and H 4 and 9 (1); IC and H 4 and 9 (5); Bn 9 (2).
4-250	Stereoscopic Range and Height Finding.	July 20, 1940	-----	B 4 (3); R 4 (4); Bn 4 (3), 9 (2); IC 4 (2), 9 (2).
*4-310	Coast Artillery Gunner's Instruction, Fixed Seacoast Artillery, Expert Gunners.	Jan. 27, 1942	-----	IBn and H 4 (3); IC 4 (X).
*4-315	Coast Artillery Gunner's Instruction, Mobile Seacoast Artillery, First and Second Class Gunners.	Jan. 22, 1942	-----	Do.
*4-325	Coast Artillery Gunner's Instruction, Antiaircraft Gun, Automatic Weapon, and Headquarters Batteries, First and Second Class Gunners.	Dec. 16, 1941	-----	IBn and H 4 (3); IC 4 (AA Gn Btry (40)); AA Auto W Btry (40); AA Hq. Btry, Regt (30); AA Hq Btry, Bn (20); Repl Tng Cen, Gn and W Btrys (250); Repl Tng Cen, Hq Btry (125).
*4-330	Coast Artillery Gunner's Instruction, Antiaircraft Searchlight Batteries, First and Second Class Gunners.	Dec. 3, 1941	-----	IBn and H (3); IC 4 (X).

Pamphlets not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ()

¹ Section I, Training Circular No. 37, War Department, 1941.

² Section II, Training Circular No. 51, War Department, 1941, and "Annual Supplements" on target practice.

c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
5-230	Topographic Drafting	Nov. 12, 1940	---	D (5); B (3); R 1-3, 5-7, and 17 (5); Bn 1, 2, 4-7, 11, and 17 (2); IC 2, 4, 6, 7, 11, and 17 (5), 5 (10). B and H (2); R 2, 4-7, and 17 (3); IBn and L 4 and 5 (5), 6 (10); Bn 11 (2); IC 11 (5).
5-235	Surveying	Oct. 1, 1940	---	R and H 2, 4-7, and 17 (3); IBn and L 4 and 5 (5); IBn 6 (10).
5-236	Surveying Tables	July 10, 1940	---	D 1, 2, 7, and 17 (5); R 1 (5); IBn 1 and 5 (10); IC 5 (20).
*5-240	Aerial Photography	Nov. 21, 1941	---	X.
*5-265	Protective Concealment for Seacoast Fortifications.	July 25, 1941	---	X.
*5-268	Repair of Fish Nets	June 24, 1941	---	X.
*5-269	Materials for Protective Concealment.	Sept. 17, 1941	---	X.
5-270	Standard Stream Crossing Equipment.	Nov. 1, 1940	*C1	D (5); B (3); R 2, 4, 6, 7, 8, 10; and 17 (5); 5 (10); Bn (5); IBn 5 (10); IC 5 (10). IR 4, 5, and 10 (5); IBn 5 (5).
5-400	Military Railways and Inland Waterways.	Nov. 30, 1940	(1)	

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5-405	Railway Operating Battalion.	Nov. 29, 1940	---	R 5 (5); IR 4 (5); IBn 5 (10).
5-410	Railway Shop Battalion	do	---	Do.
6-200	Field Artillery Survey	May 15, 1941	---	B 6 (8); R 6 (3); Bn 6 (8); C 6 (6).
6-210	Conduct of Field Artillery Fire Using Air Observation.	Apr. 5, 1941	---	B 4 and 6 (3); R 6 (10), 7 (5); R and H 1 (6); IBn 1 (10); Bn and L 6 (4), 11 (1).
†6-215	Abbreviated Firing Tables.	Dec. 15, 1941	---	B 2, 7, and 17 (3); Bn and H 6 (5); C 6 (8).
6-220	Field Artillery Fire-control Instruments.	Feb. 26, 1941	---	B 2, 7, and 17 (3); Bn and H 6 (5); Bn 9 (2); C 6 (15), 9 (2).
6-225	Field Artillery Trainer	Jan. 15, 1941	---	D (2); B 6 (3); R 6 (5); IR 2 (5); Bn 6 (5); IBn 17 (5); IC 2 and 17 (10).
6-230	Fire-Control Code	May 12, 1941	*C1	B 1 and 6 (5), 2, 7, and 17 (2); R 1 and 6 (10); Bn 6 (6); IBn 1 (10); IC 11 (8).
6-600	Notes for Field Artillery Replacement Training Centers.	Mar. 19, 1941	---	X.
*6-605	Field Artillery Individual and Unit Training Standards.	Nov. 18, 1941	---	D2, 7, and 17(5); B6(5); R6(10); Bn 6(5); C6(20).

* Pamphlets and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk. (*)

† Pamphlet marked with a dagger (†) has been revised since Sept. 1, 1941, and includes all changes to date of revision.

‡ Training Circular No. 57, War Department, 1941.

c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*6-650	Field Artillery Notes, Meteorological Data Using British 25-PR Range Tables.	Jan. 16, 1942	---	X.
8-220	Medical Department Soldier's Handbook.	Mar. 5, 1941	---	X.
*8-225	Dental Technicians	Jan. 28, 1942	---	X.
*8-227	Methods for Laboratory Technicians.	Oct. 17, 1941	---	D8 (10); B8 (5); R8 (SH5); Bn 8 (3); IC 8 (2).
*8-233	Methods for Pharmacy Technicians.	Oct. 13, 1941	---	D8 (10); B8 (5); R8 (SH5); Bn 8 (3); C8 (2).
8-240	Roentgenographic Technicians.	July 3, 1941	---	X.
8-260	Fixed Hospitals of the Medical Department (General and Station Hospitals).	July 16, 1941	---	X.
*8-275	Military Roentgenology	Jan. 26, 1942	---	X.
8-285	Treatment of Casualties from Chemical Agents.	July 10, 1941	---	D (3), 8 (15); B (5), 8 (10); R (5), 8 (SH 5); Bn 8 (3); C 8 (5).
8-300	Notes on Eye, Ear, Nose, and Throat in Aviation Medicine.	Nov. 26, 1940	---	B and H (2); R and H 1 (6); R 8 (SH 5); IBn 8 (5); IC 8 (5).

8-305-----	Notes on Cardiology in Aviation Medicine.	Nov. 12, 1940	-----	Do.
8-310-----	Notes on Physiology in Aviation Medicine.	Oct. 21, 1940	-----	B and H (2); R and H 1 (6); IR 5 (2), 8 (SH 5); IC 8 (5).
8-320-----	Notes on Psychology and Personality Studies in Aviation Medicine.	Jan. 27, 1941	-----	R and H (2), 1 (6), 8 (SH 5); IBn 8 (5); IC 8 (5).
8-325-----	Outline of Neuropsychiatry in Aviation Medicine.	Dec. 12, 1940	-----	Do.
8-450-----	Veterinary Administration.	May 1, 1941	-----	X.
*8-500-----	Hospital Diets	Oct. 13, 1941	-----	X.
9-225-----	Browning Machine Gun, Caliber .50, M2, Aircraft, Fixed and Flexible.	Nov. 8, 1940	-----	R and H 1 (6); Bn 1 (10), 9 (2); IC 9 (2).
9-226-----	Browning Machine Gun, Caliber .50, M2, Water-cooled, and Mounts.	Dec. 10, 1940	(1)	B (2); R 1, 2, 5-7, and 17 (2); IR 4 (10); Bn 9 (2); IC 1, 2 4-7, 9, and 17 (2).
*9-227-----	20-mm Aircraft Gun Matériel, M1 and M2.	Dec. 16, 1941	-----	D 1 (2); IB 1 (2); IR 1 (2); IBn 1 and 9 (2); IC 1 (2), 9 (4).
9-235-----	37-mm AA Gun Matériel, M1A2.	Dec. 31, 1940	(2)	R and H 1 and 4 (3); IBn 4 and 9 (3); IC 4 (5), 9 (2).

Pamphlets not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

1 Section II, Training Circular No. 71, War Department, 1941.

2 Training Circular No. 17, War Department, 1941.

c. *Technical Manuals—Continued.*

No.	Title	Date	Changes	Distribution
9-240	37-mm Aircraft Gun Matériel, M4.	Apr. 10, 1941	-----	R and H 1 (6); IBn 1 (10); Bn 9 (2); IC 9 (2).
9-280	U. S. Rifle, Caliber .22, M1922, and M1922M1, and M2.	Oct. 1, 1940	-----	R and H (5); Bn 2, 4, 5, 7, 9-11, and 17 (2); C 2, 4, 5, 7, 9-11, and 17 (5).
*9-292	Projector, Signal Ground, M4.	Oct. 18, 1941	-----	D 2 and 7 (5); B 2 and 7 (2); R 2 and 7 (2); IC 2 (2), 7 (5), 9 (2).
9-305	75-mm Gun Matériel, M1897 and Modifications.	Mar. 31, 1941	(1)	B 6 (3); IR 6 (5); IBn 6 and 9 (2); IC 6 (10), 9 (2).
†9-307	75-mm Gun Matériel, M2 and M3 (tank).	Oct. 8, 1941	*C1	B 17 (2); IR 17 (2); Bn 9 (2); IBn 17 (2); C 9 (2).
9-315	75-mm Gun and Carriage, M1917 and Modifications.	Oct. 1, 1940	-----	B 2, 6, 7, and 17 (3); IR 6 (5); Bn 9 (2); IC 9 (2).
9-320	75-mm Howitzer Matériel.	June 21, 1941	-----	B 6 (2); IR 6 (3); Bn 9 (2); IC 9 (2).
9-325	105-mm Howitzer Matériel, M1A1 and M2.	May 1, 1941	*C1	B 6 (2); IR 6 (3); Bn 9 (2); IC 9 (2).
*9-345	155-mm Gun Matériel, M1917, M1918 and Modifications.	Nov. 1, 1941	-----	IB 4 (3); B6 (2); IR 4 and 6 (3); IBn 4 and 6 (3), 9 (2); IC4 (6), 6 (12), 9 (4).
9-350	155-mm Gun Matériel, M1.	Feb. 1, 1941	-----	B 6 (2); IR 6 (5); IBn 6 (2); Bn 9 (2); IC 9 (2).

9-360	3-Inch Antiaircraft Gun Matériel (Mobile).	Oct. 1, 1940	-----	D 1 (4); B 1 and 4 (2); IR 1 (2), 4 (4); IBn 4 (3); Bn 9 (2); IC 4 (1), 9 (2). IBn and H 4 and 9 (2); IC 4 (3) 9 (2).
9-370	90-mm Antiaircraft Gun Matériel, M1.	July 1, 1941	-----	B 2 and 6 (2); R 2 and 6 (3); Bn 9 (2); IC 2, 6, and 9 (2).
9-705	Scout Cars, M3, M3A1, and 4.2 Mortar Motor Carriage, M2.	Feb. 19, 1941	-----	B 17 (6); IR 17 (6); Bn 9 (2); IBn 17 (4); IC 9 (2); 17 (5).
9-725	Light Tanks	Apr. 17, 1941	-----	D (2); IB 2, 7, and 17 (2); IR 22, 3, 5, 7, and 17 (2); IBn 2, 3, 5, 7, 9, and 17 (2); IC 2, 5, 7, and 17 (2), 9 (4).
*9-710	Half-Track Vehicles	Jan. 5, 1942	-----	D 17 (3); B 17 (2); IR 17 (3); IBn 17 (1), 9 (2); IC 17 (2), 9 (4).
*9-750	Medium Tank, M3	Oct. 1, 1941	-----	D 2, 7, and 17 (3); B 4 and 6 (3); R 2, 4-7, 10, and 17 (10); IBn 2, 6, 7, and 17 (3), 9 (4); IC 9 (2).
*9-850	Cleaning, Preserving, Lubricating, and Weld- ing Materials and Simi- lar Items Issued by the Ordnance Department.	Aug. 21, 1941	-----	D (5); B (3); R 1, 3, 8, and 10 (3), 2, 4-7, and 17 (5); Bn 1-7, 9, 11, and 17 (2); C 2-7, 9, 11, and 17 (3).
9-855	Targets, Target Ma- terials, and Rifle Range Construction.	June 19, 1941	-----	R and H 1 (6); IBn 1 (10); Bn 9 (2); IC 3 (5), 9 (2).
9-980	Bombs for Aircraft	Sept. 23, 1940	-----	

Pamphlets and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

†Pamphlet marked with a dagger (†) has been revised since Sept. 1, 1941.

‡Section III, Training Circular No. 46, War Department, 1941.

c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*9-1205-----	Ordnance Maintenance: Browning Machine Gun, Cal. .30, All Types, U. S. Machine Gun, Cal. .22, and Trainer, Cal. .22.	Nov. 15, 1941	-----	D2, 7, and 17 (2); B6 (2); R1, 2, 5-7, and 17 (1); IBn 9 (1); IC9 (2).
*9-1225-----	Browning Machine Gun, Cal. .50, all types.	Jan. 5, 1942	-----	D 1, 2, 7, and 17 (4); B 1, 2, 4, 6, 7, and 17 (2); IR 1, 7, and 17 (5); IBn 9 and 17 (2); IC 9 (4).
9-1235-----	37-mm Antiaircraft Gun, M1A2, and Carriage, M3.	Nov. 27, 1940	-----	B (2); R, 2, 4, 7, and 17 (1); Bn 4 (3); IC 4 and 9 (5).
9-1245-----	37-mm Gun, M3, and Carriage, M4.	Jan. 15, 1941	-----	R and H 2, 4, 6, 7, and 17 (2); Bn 9 (2); IC 9 (2).
*9-1305-----	Gun and Carriage, 75- mm, M1897, All Types, and Special Field Ar- tillery Vehicles.	Oct. 27, 1941	-----	ID (2); IB 6 (2); IBn 6 and 9 (2); IC 9 (4).
9-1320-----	75-mm Howitzer Maté- riel.	June 20, 1941	-----	B 6 (2); IR 6 (1); Bn 9 (2); IC 9 (4).
9-1350-----	155-mm Gun Matériel, M1.	July 15, 1941	-----	IBn 9 (2); IC 9 (4); X.
9-1360-----	3-Inch Antiaircraft Gun Matériel, M2A2, M2A1, M1A2, M1A1, T1A2, and T1A1.	July 25, 1940	-----	B and H 1 (2); B 4 (2); IR 1 and 4 (1); Bn 9 (2); IC 9 (4).

9-1525	Angle of Site Instrument, M1917.	Apr. 4, 1941	---	R 2, 5, 6, 7, and 17 (1); IBn 9 (2); IC 9 (4).
*9-1530	Aiming Circles, M1, M1918 (French), M1916, and M1916, M1.	Aug. 19, 1941	---	B 6 and 7 (2); R 6 and 7 (1); IR 4 (1); IBn 9 (4); IC 9 (6).
*9-1535	Sights, M4, M3 (For 60-mm and 81-mm Mortar Matériel); Sights M2A3, M2A1, M2 (For 81-mm Mortar Matériel).	Sept. 12, 1941	---	D 2, 7, and 17 (2); B 2, 7, and 17 (2); R 2, 7, and 17 (1); Bn 9 (2); IC 9 (4).
*9-1547	Mount, Telescope M16; Quadrant, Range, M3; Telescope, Elbow, M5.	Nov. 13, 1941	---	IBn 6 and 9 (2); IC 9 (4).
*9-1548	Panoramic Telescope M1 and Telescope Mount M3.	Oct. 15, 1941	---	B 6 (2); IR 6 (1); IBn 9 (2); IC 9 (4).
*9-1549	Mount, Telescope, M15A1, Quadrant, Range, M1.	Nov. 14, 1941	---	D (2); Bn 9 (2); IC 9 (4).
9-1550	Sight, M1901 (French)	May 31, 1941	---	B 6 (2); IR 6 (1); Bn 9 (2); IC 9 (4).
*9-1551	Mount, Telescope, M21; Telescope Panoramic, M5A3; Telescope Panoramic, M12A2; Quadrant, Range, M4; Mount, Telescope, M23; Light Instrument, M5.	Nov. 19, 1941	---	D 2, 7, and 17 (2); IBn 9 (2); IC 9 (4).

Pamphlets not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*9-1552	Mount, Telescope, M22, Telescope Panoramic, M5A4; Telescope, Panoramic, M12A1; Quadrant, Range, M5; Telescope, Elbow, M14; Mount, Telescope, M23 (for 75-mm Gun Carriage, M2A3). Quadrant Sights. M1917, M1917A1, M1918, M1918A1.	Nov. 14, 1941	-----	D (1); IBn 9 (2); IC 9 (4).
9-1555	Elevation Quadrant, M1.	Aug. 14, 1941	-----	B4 and 6 (2); IR 4 and 6 (1); IBn 4, 6, and 9 (2); IC 9 (4).
*9-1557	Telescope M6 and Telescope Mount M19.	Oct. 20, 1941	-----	B 4 (2); IR 4 (1); Bn 9 (2); IC 9 (4).
*9-1578	Battery Commander's Telescope, M1915A1.	Oct. 2, 1941	-----	R and H 2, 4, 6, 7, and 17 (2); Bn 9 (2); IC 9 (4).
*9-1580	Telescopic Sights M1 and T3.	June 6, 1941	-----	B 6 (2); R 6 (1); Bn 9 (2); IC 9 (4).
*9-1581	Range Finders, 1-Meter, Base and 80-CM Base, All Types.	Oct. 4, 1941	-----	R and H 2, 4, 7, and 17 (2); Bn 9 (2); IC 9 (2).
9-1585	Setters, Fuze, Bracket, M1916, Series; Setters, Fuze, Hand, M1912 and M1913 Series.	May 23, 1941	-----	R and H 7 (2); Bn 9 (2); IC 9 (4).
9-1590		July 1, 1941	-----	D 2, 7, and 17 (2); B 4 and 6 (2); IR 4 and 6 (1); Bn 9 (2); IC 9 (4).

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9-1595	Prismatic Compass, M1918.	July 17, 1941		B and H (2); R 2, 4-7, and 17 (1); Bn 9 (2); IC 9 (4).
9-1605	Set, Control Equipment, Automatic Gun, AA, M1.	Feb. 21, 1941		B 4 (2); IR 4 (1); Bn 9 (2); IC 4 and 9 (3).
9-1606	Sighting System, M2, with Telescope, M7, for 37-mm Antiaircraft Gun.	Aug. 13, 1941		B 4 (2); IR 4 (1); IBn 4 and 9 (2); IC 9 (4).
9-1610	Instrument, Flank Spotting, M1 Rule, Flank Spotting, M1.	July 8, 1941		B 4 (2); IR 4 (1); Bn 9 (2); IC 9 (4).
*9-1611	Field Glass, Type EE	Sept. 12, 1941		IBn 9 (2); IC 9 (4).
9-1635	Fuze Setter, M8	Feb. 8, 1941	*C1	B 4 (2); IR 4 (1); Bn 9 (2); IC 4 and 9 (2).
*9-1640	Fuze Setter, M9	Sept. 18, 1941		B 4 (2); IR 4 (1); IBn 9 (2); IC 9 (4).
*9-1641	Fuze Setter, T15	Oct. 17, 1941		B 4 (2); IR 4 (1); IBn 9 (2); IC 9 (4).
*9-1650	Director, M3	Sept. 15, 1941		B 4 (2); IR 4 (1); Bn 9 (2); IC 9 (4).
9-1655	Director, M4	July 18, 1940		B 4 (2); IR 4 (1); IBn 4 (3); Bn 9 (2); IC 4 and 9 (4).
9-1656	Data Transmission System, M4.	Jan. 15, 1941	(1)	B 4 (2); IR 4 (1); IBn 4 and 9 (2); IC 4 and 9 (2).
9-1660	Locator, Sound, M2	Oct. 9, 1940		B 4 (2); IR 4 (1); Bn 9 (3); IC 9 (4).
9-1661	Sound Locators M1A1 to M1A8, Inclusive.	Apr. 15, 1941		B 4 (2); IR 4 (1); Bn 9 (2); IC 9 (4).
9-1662	Binaural Training Instruments, M1 and M2.	July 8, 1941		B 4 (2); IR 4 (1); Bn 9 (4); IC 4 (2), 9 (6).

Pamphlets and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

1 Section I, Training Circular No. 26, War Department, 1941.

c. *Technical Manuals—Continued.*

No.	Title	Date	Changes	Distribution
*9-1675	Azimuth Instruments, M1910 and M1910A1 (Degrees).	Sept. 15, 1941	---	B 4 (2); IR 4 (1); Bn 9 (2); IC 9 (4).
9-1680	Azimuth Instrument, M1918.	July 8, 1941	---	B (2); R 2, 4, 6, 7, and 17 (1); Bn 9 (4); IC 9 (5).
*9-1685	Depression Position Finder M1907.	Oct. 14, 1941	---	B 4 (2); IR 4 (1); IBn 9 (2); IC 9 (4).
*9-1695	Depression Position Finder M1.	Nov. 21, 1941	---	IR and H 4 (2); IBn 9 (2); IC 9 (4).
*9-1752	Auxiliary Generator (Homelite Model HRH-28) for Medium Tank, M3.	Aug. 4, 1941	---	IBn 9 (2); IC 9 (4).
*9-1900	Ammunition, General.	Sept. 8, 1941	---	D (2); B 4 and 6 (2); IBn 9 (2); IC 9 (4).
9-2571	Instruction Guide: Plotting Board, M1918A1.	Apr. 17, 1941	---	IBn and H 4 (3), 9 (2); IC 4 (5), 9 (2).
9-2579	Telescope, T15.	Aug. 13, 1941	---	X.
†9-2615	Generating Unit, M1.	Nov. 15, 1941	---	B 4 (2); IR 4 (2); Bn 9 (2); IBn 4 (2); IC 4 and 9 (2).
9-2623	Height Finder, M1.	Nov. 19, 1940	---	B 6 (2); IR 6 (5); Bn 9 (2); IBn 6 (3); IC 6 (8), 9 (2).
9-2653	Stereoscopic Tester, M1A1.	Mar. 27, 1941	---	B 4 (5); IR 4 (2); Bn 9 (3); IBn 4 (2); IC 4 (2), 9 (4).
9-2655	Director, M4.	July 18, 1940	---	B 4 (2); Bn 9 (3); IC and H 4 (2); IC 9 (3).

9-2660	Sound Locator, M2	Oct. 11, 1940	R and H 4 (3); IBn and H 4 (5); Bn 9 (2); IC 4 (10), 9 (2).
†9-2662	Binaural Training Instrument, M2.	Nov. 21, 1941	B 4 (2); IR 4 (2); IBn 4 and 9 (2); IC 4 and 9 (4).
*9-2674	Telescope Mount, M20; Panoramic Telescope, M8; Elevation Quadrant, M1.	Aug. 30, 1941	Hq (HD) 4 (3); IR 4 (3); IBn 4 (1); Bn 9 (3); IC 4 (1); 9 (4).
*9-2675	Azimuth Instrument, M1910A1.	Nov. 17, 1941	R and H 4 (1); IBn 4 (1); IC 4 (1), 9 (2); Hq HD (2)
†9-2681	Plotting Boards, M3 and M4.	Jan. 21, 1942	IBn and H 4 (3), 9 (2); IC 4 (5), 9 (2).
9-2682	Spotting Board, M3	Jan. 7, 1941	IBn and H 4 (3), 9 (2); IC 4 (5), 9 (4).
*9-2683	Plotting Board, M5	July 23, 1941	IBn and H 6 (3), 9 (2); IC 6 (5), 9 (2).
*9-2684	Sound Ranging Plotting Board, M1.	Aug. 1, 1941	IBn and H 6 (3), 9 (2); IC 9 (4).
9-2777	Instruction Manual and Parts List—TracTrac-Tor Heavy (Diesel Model TD-18).	Apr. 10, 1941	D 7 and 17 (3); B 4 and 6 (5); IR 4 and 6 (8); Bn 9 (2); IC 9 (3).
9-2778	Instruction Manual and Parts List—TracTrac-Tor, Medium (Model T-6).	Aug. 27, 1941	D 2, 7, and 17 (3); IR 5 (8); Bn 9 (2); IBn 5 (3); IC 9 (3).
9-2900	Military Explosives	Aug. 29, 1940	C and H (5); IC 5 (10).

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† Pamphlets marked with a dagger (†) have been revised since Sept. 1, 1941.

! No initial distribution of this manual was made. Replacement of copies now in hands of individuals is not contemplated.

c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
10-205	Mess Management	Apr. 1, 1940	---	B and H 8 (5); B (2); R 1-8, 10, and 17 (5); Bn 1 (3), 2-11, and 17 (2); C 2-11, and 17 (3). R and H (3).
10-210	Inspection of Subsistence Supplies.	Sept. 23, 1940	---	B (2); R (5); IC 10 (5).
10-215	Commissary Operation	Sept. 12, 1940	---	B (2); R and H 1, 3, and 4 (3); IR and H 8 (2); IR and L 10 (5); Bn and H 5 (2); IC 5 (5).
10-220	Utilities	do	---	B and H (3); IR and L 10 (10).
10-225	Inspection of Textiles	Aug. 20, 1940	---	R and H (3); IBn 2 (1); IC 2 (1), 10 (10).
10-226	Classification, Processing, and Inspection of Leather and Leather Equipment.	Jan. 3, 1941	---	R and H (2); R and L 10 (5).
10-227	Inspection of Shoes	Feb. 18, 1941	---	R and H (3); IBn 1, 5, 9, and 10 (5); IC 3 (4), 10 (10).
10-250	Storage and Issue	Oct. 1, 1940	---	D (3); B (2); R 1-11, and 17 (5); Bn 1-11, and 17 (3); C 1-11, 14, and 17 (2).
10-310	Property Accounting	Nov. 22, 1940	---	B (2); R (5); Bn (2).
10-325	Agent Officers	Aug. 30, 1940	*C1	

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10-350	Laundries, Laundry Battalions, and Laundry Companies.	Nov. 27, 1940		D (10); IBn 10 (5); IC 10 (5).
10-370	Rail Transportation, Zone of the Interior.	Apr. 8, 1941		D (3); B (2); R (5); IBn and L (5).
10-380	Water Transportation.	Feb. 14, 1941		B (1); R (2); IBn 10 (10).
10-390	Operation of the Remount Breeding Service.	Feb. 28, 1941		B2 and 6 (5); IR 2 and 6 (3); IC and H 8 (2), 10 (5).
*10-395	Remount.	Dec. 18, 1941		B (2); IB 6 (2); R2 (5); IR 6 (5), 8 (3); IBn 8 (2), 10 (5), IC 8 (2), 10 (5).
10-405	The Army Cook.	June 9, 1941 ¹		R and L (5); IC 8 and 10 (10).
10-410	Army Baker.	Mar. 22, 1941 ¹	(²)	R and L (3); IC 10 (20).
10-440	The Blacksmith and the Welder.	June 16, 1941		B and H (3); R 1-8, 10, and 17 (5); I R 10 (10); Bn 1-6, 8-11, and 17 (5); C 17 (3); I C 2-11 (3).
*10-445	The Machinist.	Nov. 12, 1941		B 1 (6), 2, 4, and 6 (2); R1 (6), 2, 4-7, and 17 (5), 10 (15); Bn 5, 10, and 17 (5), 9 (2); IBn 1, 2, and 6 (5); C 10 and 17 (3); IC 2, 4-7, 10, and 17 (10), 3 (5).

Pamphlets and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

¹No initial distribution of this manual was made. Replacement of copies now in hands of individuals is not contemplated.

²Section III, Training Circular No. 55, War Department, 1941.

c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*10-450-----	Sheet Metal Work, Body, Fender, and Radiator Repairs.	Nov. 21, 1941	-----	B 1 (6), 2, 4, 6, and 17 (2); R 1 (6), 2-7, 11, and 17 (5), 10 (15); Bn 5, 10, and 17 (5), 9 and 11 (2); IBn 1, 2, 4, and 6 (2); C 9, 10, and 17 (3), 11 (2); IC 2, 3, 4, 6, and 7 (2), 5 (5).
10-510-----	The Motor Vehicle-----	Oct. 1, 1940	-----	B and H (3); R (10); Bn 1 (10); IBn and L 2-11, and 17 (10).
10-515-----	The Motorcycle-----	Dec. 13, 1940	-----	D (3); B (2); R (10); Bn 1 (10), 3, 5, 8-11, and 17 (5); IBn 2, 4, 6, and 7 (5); C 3, 5, 6, 9, and 11 (5), 10 (10), 17 (15); I C 2 (15), 4 (5), 7 (10).
10-540-----	Automotive Lubrication--	Dec. 26, 1940	-----	B and H (3); R (10); Bn 1 (10); IBn and L 2-11, and 17 (10).
10-545-----	Motor Transport Inspections.	Dec. 30, 1940	-----	Do.
10-550-----	Fuels and Carburetion--	Dec. 27, 1940	*C1-----	Do.
10-560-----	Chassis, Body, and Trailer Units.	May 20, 1941	*C1-----	B (2); R 1-8, 10, and 17 (5); Bn 1, 10, and 17 (5); IBn 2-8, 9, and 11 (3); IC 10, 11, and 17 (5), 1-8, 9, and 11 (3).

10-565	Automotive Brakes	Mar. 8, 1941		B (3); R (5); IBn 1, 2, 5, 6, 9-11, and 17 (2); IC (5).
10-570	The Internal Combustion Engine.	Feb. 4, 1941	*CI	B and H (3); R 1 and 17 (10), 2-8, and 10 (5); IR 10 (10); Bn 1 and 17 (5) IBn 2-6, 8-11 (5); C 17 (3); IC 2-11 (3).
10-575	Diesel Engines and Fuels	July 25, 1941		B 1, 2, 4, 6, 7, and 17 (2); R 1, 2, 4-7, 10, and 17 (5); IBn 2-6, 9, 10, and 17 (5); IC 2-6, 9, 10, and 17 (5).
10-580	Automotive Electricity	Jan. 29, 1941		B (2); R 1, and 17 (10), 2-8, and 10 (5); Bn 1, 4, 5, 10, 11, and 17 (5); IBn 2, 3, 6, and 9 (3); C 9, 11, and 17 (5); IC 2, 4-8, and 10 (5).
10-585	Automotive Power Transmission Units.	Apr. 10, 1941		D (3); B (2); R 1-8, 10, and 17 (10); Bn 1 and 17 (10); Bn 3, 5, and 7 (3); IBn 2, 6, 8, and 10 (3); C 3-5 (10); C 8-11, and 17 (15); IC 2, 4-7 (15).
10-590	Hand, Measuring, and Power Tools.	May 26, 1941		B (2); R 1-8, 10, and 17 (5); Bn 1, 10, and 17 (5); IBn 2-8, 9, and 11 (3); IC 10 and 17 (5), 1-8, 9, and 11 (3).
10-610	Refrigeration Company	Oct. 1, 1940		R and H (2); IBn and L 10 (5).
*10-630	Graves Registration	Sept. 23, 1941		R and H (6); Bn and L (2); IC 10 (10).

* Pamphlet and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk (*).

c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
10-1100	Parts List, Truck, ¼-ton, 4 x 4, Ford (Model G. P.).	Oct. 1, 1941	*C1	X. ¹
10-1101	Maintenance Manual, ¼-ton, 4 x 4, Ford (Model G. P.).	do	*C1	X. ¹
10-1102	Parts List, Truck, ¼-ton, 4 x 4, Willys (Model MA).	Aug. 20, 1941		X. ¹
10-1103	Maintenance Manual, Truck, ¼-ton, 4 x 4, Willys (Model MA).	do		X. ¹
10-1104	Parts List, Truck, 2½-ton (LC), 6 x 6, G. M. C. (Model CCKWX-353).	July 18, 1941	*C1	X. ¹
10-1105	Maintenance Manual, Truck, 2½-ton, 6 x 6, G. M. C. (Model CCKWX-353).	do		X. ¹
*10-1106	Parts List, Truck, 4- to 5-ton, 4 x 4, Coe, Federal (Model 94 x 43).	July 10, 1941		X. ¹
*10-1107	Maintenance Manual, Truck, 4- to 5-ton, 4 x 4, Coe, Federal (Model 94 x 43).	do		X. ¹

*10-1108	Parts Lists, Truck, Prime Mover, 6 x 6, Corbitt (Model 50SD6).	Aug. 27, 1941	X. ¹
10-1110	Parts List and Maintenance Manual, Watson, Semitrailer, 2-wheel (2dt), Animal and Cargo, Model No. TD-32-G.		X. ¹
10-1112	Parts List and Maintenance Manual, Watson, Semitrailer, 2-wheel (10-ton Gross) Model No. B-34.		X. ¹
*10-1114	Parts List, Truck, 2½-ton (LC) 4 x 2, International (Model K-7).	July 26, 1941	X. ¹
*10-1115	Maintenance Manual, Truck 2½-ton (LC) 4 x 2, International (Model K-7).	do.	X. ¹
*10-1116	Parts List, Tractor Truck, 4 to 5-ton, 4 x 4, Autocar (Model U-7144-T).	Sept. 4, 1941	X. ¹
*10-1117	Maintenance Manual, Tractor Truck, 4 to 5-ton, 4 x 4, Autocar (Model U-7144-T).	do.	X. ¹

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c. *Technical Manuals*—Continued

No.	Title	Date	Changes	Distribution
*10-1118	Parts List, Tractor Truck, 5- to 6-ton, 4 x 4, Auto-car (Model U-8144-T).	Sept. 4, 1941	---	X. ¹
*10-1119	Maintenance Manual, Tractor Trucks, 5- to 6-ton, 4 x 4, Autocar Model U-8144-T).	do	---	X. ¹
10-1120	Parts List, Truck, ½-ton, 4 x 4, Dodge (Models WC-1-USA and WC-3-USA thru WC-11-USA).	July 24, 1941	---	X. ¹
10-1122	Parts List, Truck, ½-ton, 4 x 4, Dodge (Models WC-1-USA thru WC-10-USA).	do	Cl	X. ¹
10-1123	Maintenance Manual, Truck, ½-ton, 4 x 4, Dodge (Models WC-1-USA and WC-3-USA thru WC-11-USA).	do	*Cl	X. ¹
*10-1126	Parts List, Truck, 1½-ton, (LC), 4 x 4, Chevrolet (Models G-7105, G-7106, G-7107, G-7116, G-7117, G-7113, G-7127).	Aug. 14, 1941	---	X. ¹

*10-1127	Maintenance Manual, Truck, 1½-ton, (LC), 4 x 4, Chevrolet (Models G-7105, G-7106, G-7107, G-7113, G-7116, G-7117, G-7127, G-7133).	Aug. 15, 1941	-----	X. ¹
*10-1130	Parts List, Truck, 1½-ton, (LC), 4 x 4, Chevrolet (Model G-7123 Cab-Over-Engine).	Dec. 1, 1941	-----	X. ¹
*10-1131	Maintenance Manual, Truck, 1½-ton, (LC), 4 x 4, Chevrolet (Model G-7123).	-----do-----	-----	X. ¹
*10-1132	Parts List, Left Hand Drive, four door sedans—Chevrolet (Job 73 L-Black Finish) (Job 73-OD Finish) and (Job 73 M-OD export).	Oct. 22, 1941	-----	X. ¹
*10-1133	Maintenance Manual, Passenger Car, Chevrolet (Model BG).	Oct. 1, 1941	-----	X. ¹
*10-1136	Combined Maintenance Manual and Parts List, Truck, 1½ to 3-ton, 4 x 4, Coe G. M. C. (Model AFKX-352).	Aug. 8, 1941	-----	X. ¹

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c. *Technical Manuals*—Continued

No.	Title	Date	Changes	Distribution
*10-1140	Parts List, Truck, 2½-ton, 4 x 2, International (Model K-7).	Aug. 20, 1941	-----	X.1
*10-1141	Maintenance Manual, Truck, 2½-ton, 4 x 2, International (Model K-7).	do	-----	X.1
*10-1144	Parts List and Illustrations, Truck, 5-ton, 4 x 2, International (Model KR-11).	July 29, 1941	-----	X.1
*10-1145	Maintenance Manual, Truck, 5-ton, 4 x 2, International (Model KR-11).	July 26, 1941	-----	X.1
*10-1146	Parts List, Truck, 2½-ton, 6 x 6, G. M. C. (Models CCKW-352-353).	Aug. 26, 1941	-----	X.1
*10-1147	Maintenance Manual, Truck, 2½-ton, 6 x 6, G. M. C. (Models CCKW-352-353).	do	-----	X.1
*10-1148	Parts List, 5-passenger Sedan, Plymouth (Model P-11).	Aug. 28, 1941	-----	X.1

*10-1149	Maintenance Manual, 5-passenger Sedan, Plymouth (Model P-11).	do	X.1
*10-1150	Parts List, 5-passenger Sedan, Plymouth (Model P-11).	do	X.1
*10-1151	Maintenance Manual, 5-passenger Sedan, Plymouth (Model P-11).	do	X.1
*10-1152	Parts List, Truck, 1/2-ton, 4 x 4, Dodge (Models WC 21 through WC 27, WC 40, and WC 41).	Nov. 21, 1941	X.1
*10-1153	Maintenance Manual, Truck, 1/2-ton, 4 x 4, Dodge (Models WC 21, WC 22, WC 23, WC 24, WC 25, WC 26, WC 27, WC 40, and WC 41).	Sept. 10, 1941	X.1
*10-1156	Parts List, Truck, 1 1/2-ton, 4 x 2, Dodge (Model WF-31).	Nov. 25, 1941	X.1
*10-1157	Maintenance Manual, Truck, 1 1/2-ton, 4 x 2, Dodge (Model WF-31).	do	X.1
*10-1158	Parts List, Prime Mover, 6-ton, 6 x 6, Corbitt (Model 50SD6).	Aug. 29, 1941	X.1

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c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*10-1159	Maintenance Manual, Prime Mover, 6-ton, 6 x 6, Corbitt (Model 50SD6).	Aug. 29, 1941	-----	X. ¹
*10-1160	Combined Maintenance Manual and Parts List, Tractor Truck, 5-ton, 4 x 4, Coe, Auto Car (Model U-5044).	do	-----	X. ¹
*10-1164	Parts List, Truck, ½-ton (LC), 4 x 2, Chevrolet Series 3101 (Job 73S Cabs, Job 73T Panel Body).	Oct. 30, 1941	-----	X. ¹
*10-1165	Maintenance Manual, Truck, ½-ton (LC), 4 x 2, Chevrolet (Model 3103 and 3105).	Nov. 15, 1941	-----	X. ¹
*10-1166	Parts List, Truck ¾-ton, (LC), 4 x 2, Chevrolet (Model BL and Truck 1½-ton (LC), 4 x 2, Chevrolet (Model MR)).	Sept. 15, 1941	-----	X. ¹
*10-1167	Maintenance Manual, Trucks, ¾- and 1½-ton (LC), 4 x 2, Chevrolet (Models 3604 and 4107).	Nov. 15, 1941	-----	X. ¹

*10-1172	Parts List, Truck, 2½-ton (LC) 4 x 2, International (Model K-7).	July 26, 1941	-----	X. ¹
*10-1173	Maintenance Manual, Truck, 2½-ton (LC), 4 x 2, International (Model K-7).	do	-----	X. ¹
*10-1174	Parts List, Motorcycle, Solo, Harley-Davidson (Model 42-WLA).	Sept. 11, 1941	-----	X. ¹
*10-1175	Maintenance Manual, Motorcycle, Solo, Harley-Davidson (Model 42-WLA).	do	-----	X. ¹
*10-1177	Maintenance Manual, Motorcycle, Solo, Harley-Davidson (Models 1940-41-42).	do	-----	X. ¹
*10-1178	Parts List, Truck, 1½-ton 4 x 4, Dodge (Models VF-404, 405, 406, 407).	Sept. 13, 1941	-----	X. ¹
*10-1179	Maintenance Manual, Truck, 1½-ton, 4 x 4, Dodge (Models VF-404, 405, 406, 407).	do	-----	X. ¹
*10-1182	Parts List, Truck, 6-ton, 6 x 6, Mack (Model NM).	Sept. 26, 1941	-----	X. ¹

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c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*10-1183	Maintenance Manual, Truck, 6-ton, 6 x 6, Mack (Model NM).	Sept. 26, 1941	-----	X. ¹
*10-1188	Parts List, Truck, 2½-ton (LC), 6 x 4, Mack (Model NB).	Sept. 17, 1941	-----	X. ¹
*10-1189	Maintenance Manual, Truck, 2½-ton (LC), 6 x 4, Mack (Model NB).	do	-----	X. ¹
*10-1190	Parts List, Truck, 2½-ton, 4 x 2, Mack (Model EES).	Oct. 7, 1941	-----	X. ¹
*10-1191	Maintenance Manual, Truck, 2½-ton, 4 x 2, Mack (Model EES).	do	-----	X. ¹
*10-1192	Parts List, Truck, 1½-ton, 4 x 4, Dodge (Model VF-401, 402, 403).	Sept. 17, 1941	-----	X. ¹
*10-1193	Maintenance Manual, Truck, 1½-ton, 4 x 4, Dodge (Model VF-401, 402, 403).	do	-----	X. ¹
*10-1194	Parts List, Truck, ½-ton, Dodge (Model VC-1 and VC-5).	do	-----	X. ¹

*10-1195	Maintenance Manual, Truck, ½-ton, 4 x 4, Dodge (Model VC-1 and VC-5).	do.		X. ¹
10-1198	Parts List, Truck, ½-ton, 4 x 4, Dodge (Models WC-4-USA and WC-6-USA thru WC-11-USA).	July 28, 1941		X. ¹
10-1200	Parts List, Truck, ½-ton, 4 x 4, Dodge (Model WC 12 through WC 20).	Aug. 16, 1941		X. ¹
10-1201	Maintenance Manual, Truck, ½-ton, 4 x 4, Dodge (Models WC-4-USA and WC-6-USA thru WC-20-USA).	July 28, 1941	*C1	X. ¹
10-1202	Parts Price List, Truck, 1½-ton, 4 x 4 (LC), Chevrolet (Model G-4112).	June 28, 1491	*C1, 2, 3, 4.	X. ¹
10-1203	Maintenance Manual, Truck, 1½-ton, 4 x 4 LC Chevrolet Model G4112YP).	Oct. 17, 1941	*C1, 2, 3.	X. ¹
10-1204	Parts List, Truck, ¼-ton, 4 x 4, Bantam (Model BRC).	Aug. 20, 1941		X. ¹

Pamphlets not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().

¹ One copy supplied with each vehicle; additional special distribution as directed; requisitions for copies will be submitted only when vehicles to which manual pertains are serviced or operated by requisitioning agency.

c. *Technical Manuals—Continued.*

No.	Title	Date	Changes	Distribution
10-1205	Maintenance Manual, Truck, ¼-ton, 4 x 4, Bantam (Model BRC).	Aug. 20, 1941	---	X. ¹
*10-1206	Parts List, Truck, ¼-ton, 4 x 4, Willys (Model MB).	Aug. 29, 1941	C4, 5	X. ¹
*10-1207	Maintenance Manual, Truck, ¼-ton, Willys (Model MB).	do	C 3	X. ¹
*10-1209	Maintenance Manual, Truck, ½-ton, 4 x 4, Dodge (Models WC-12, WC-13, WC-15, WC-16, and WC-18).	Aug. 18, 1941	---	X. ¹
*10-1210	Parts List, Truck, ½-ton, 4 x 4, Dodge (Model VC-1 thru 5).	Sept. 10, 1941	---	X. ¹
*10-1211	Maintenance Manual, Truck, ½-ton 4 x 4, Dodge (Models VC-1 thru 5).	do	---	X. ¹
*10-1226	Parts List, Truck, 1½-ton 3-ton, 4 x 4, GMC (Model AFKX-352).	Sept. 24, 1941	---	X. ¹
*10-1231	Maintenance Manual, Truck 1½-ton 3-ton, 4 x 4, GMC (Model AFKX-352).	Sept. 26, 1941	---	X. ¹

*10-1232	Parts List, Truck, 2½-ton, 6 x 6, GMC (Model ACKWX-353).	Sept. 26, 1941	CI-----	X.1
*10-1233	Maintenance Manual, Truck, 2½-ton, 6 x 6, GMC (Model ACKWX-353).	do-----	-----	X.1
*10-1238	Parts List, Truck, 2½-ton, 4 x 4, GMC (Model AFKX-502).	do-----	-----	X.1
*10-1239	Maintenance Manual, Truck, 2½-ton, 4 x 4, GMC (Model AFKX-502).	do-----	-----	X.1
*10-1241	Maintenance Manual, Truck, 2½-ton, 6 x 6, GMC (Model ACKWX-353).	do-----	-----	X.1
*10-1250	Parts List, Truck, ½-ton, (LC) 4 x 2, Chevrolet Job 21G—Cab W1 Telephone Maintenance Body, Job Nos. 21H and 21J—Cab W1 Cargo.	Jan. 2, 1942	-----	X.
*10-1251	Maintenance Manual, Truck, ½-ton (LC), 4 x 2, Chevrolet (Model 3103, 3104 and 3116).	do-----	-----	X.1

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c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*10-1258	Parts List, Truck, 1- to 2½-ton, 4 x 2, GMC (Models AC-100 to 450 and AF-240 to 450). Maintenance Manual, Truck, 1- to 2½-ton, 4 x 2, GMC (Models AC-100 to 450 and AF-240 to 450).	Oct. 3, 1941	---	X. ¹
*10-1259	Maintenance Manual, Truck, 1- to 2½-ton, 4 x 2, GMC (Models AC-100 to 450 and AF-240 to 450).	do	---	X. ¹
*10-1261	Maintenance Manual, Truck, 2½- to 5-ton, GMC (Models AC-500 to 850 and AF-500 to 850).	do	---	X. ¹
*10-1262	Parts List, Truck, 2½-ton, 6 x 4, GMC (Model AFWX-354).	Oct. 1, 1941	---	X. ¹
*10-1265	Maintenance Manual, Truck, 1½- to 3-ton, 4 x 4 (Model CCK-353).	do	---	X. ¹
*10-1270	Parts List, Truck, 2½-ton, 4 x 2, Reo (Models 21 BHHS and 21 XHHS).	Oct. 7, 1941	---	X. ¹
*10-1271	Maintenance Manual, Truck, 2½-ton, 4 x 2, Reo (Models 21 BHHS and 21 XHHS).	do	---	X. ¹

*10-1276---	Parts List, Motorcycle (Model 640 and 640B).	Oct. 13, 1941	X. ¹
*10-1279---	Maintenance Manual, Motorcycle (Model 640 and 640B).	do	X. ¹
*10-1280---	Parts List (Second Edition), Motorcycle (Model 640 and 640B).	Oct. 10, 1941	X. ¹
*10-1282---	Parts List, Motorcycle (Model 340 and 340B).	Oct. 13, 1941	X. ¹
*10-1283---	Maintenance Manual, Motorcycle (Model 340 and 340B).	do	X. ¹
*10-1298---	Parts List, Truck, 1½-ton (LC), 4 x 2, Chevrolet Model 4103, Cab with Dump Body.	Jan. 20, 1942	X. ¹
*10-1299---	Maintenance Manual, Truck, 1½-ton (LC), 4 x 2, Chevrolet (Model 4103).	Jan. 15, 1942	X. ¹
*10-1301---	Shop Manual, 1941 Chevrolet Passenger Cars and Trucks.	Oct. 15, 1941	X. ¹
*10-1303---	Shop Manual, 1941 Chevrolet Cars.	do	X. ¹
*10-1305---	Shop Manual, 1941 Chevrolet Trucks.	do	X. ¹

* Pamphlets not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk (*).

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c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*10-1306	Parts List, ½-ton, Chevrolet Suburban Carry-all Body (Model 3101).	Oct. 17, 1941	---	X. ¹
*10-1308	Parts Price List, ½-ton, 4 x 2, Chevrolet Small Cargo and Telephone Maintenance Truck (Model 3101).	do	---	X. ¹
*10-1310	Parts Price List, Truck, 1½-ton, 4 x 2, Chevrolet (Series 4000).	do	Cl	X. ¹
*10-1312	Master Parts Price List, Chassis and Body Parts, Chevrolet (Six-cylinder Models 1929-1941).	do	---	X. ¹
*10-1316	Parts List, Tractor Truck, 4 x 2, Chevrolet (Model 4103-SAR).	do	---	X. ¹
*10-1318	Parts Price List, 1-ton Trailer, Ben-Hur (Model 41-120).	Oct. 29, 1941	---	X. ¹
*10-1324	Parts List, 1-ton, Trailer, Ben-Hur (Model 41-33).	Nov. 5, 1941	---	X. ¹

*10-1342	Chassis Parts and Price List, Passenger Cars and Trucks, Ford (Models 1938-39-40-41).	Nov. 19, 1941	X. ¹
*10-1350	Parts List, Solo Motorcycles and Side Cars, Harley - Davidson (Models 1940-41 WLA 45-inch, 1940 UA 74-inch, 1940 LE).	Nov. 25, 1941	X. ¹
*10-1352	Parts List, Solo Motorcycles, Harley - Davidson (Models 1940 and 1941 WLA 45-inch).	do	X. ¹
*10-1354	Parts List, Motorcycles, Servicers, and Side Cars, Harley - Davidson (Models 1930 to 1940 inclusive).	do	X. ¹
*10-1359	Instruction Folder (45-A) Motorcycles, Solo, Harley - Davidson (Model 1941 WLA 45).	do	X. ¹
*10-1361	Instruction Folder (45-B), Motorcycles, Solo, Harley - Davidson (Model 1941 WLA 45).	do	X. ¹

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c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*10-1368	Parts List, Truck, 1/2-ton, 4 x 4, Dodge (Models WC-12, WC-13, WC-15, WC-16, and WC-18).	Dec. 15, 1941	-----	X.1
10-1370	Maintenance Manual and Parts List, Trailer, 2-wheel, 1-ton, Cargo, Nash (Model A).	July 14, 1941	-----	X.1
10-1400	Parts List, Truck, 1 1/2-ton, 4 x 4, GMC, Model AFKX-352.	July 10, 1941	-----	X.1
10-1401	Maintenance Manual, Truck, 1 1/2-ton to 3-ton, 4 x 4, GMC (Model AFKX-352).	do	-----	X.1
10-1430	Parts List, Chevrolet, 1 1/2-ton, 4 x 4 (LC), Model Nos. G4105, G4113, G4152, G4162, G4163, G4165, G4174.	Oct. 8, 1941	-----	X.1
10-1431	Maintenance Manual, Truck, 1 1/2-ton, 4 x 4, Chevrolet, Model (G4105, G4112, G4113, G4152, G4162, G4163, G4165, and G4174).	June 28, 1941	-----	X.1

10-1500	Parts List, Truck, 2½-ton, 6 x 6, GMC (Model CCKW-352 and 353).	July 12, 1941	X. ¹
10-1501	Maintenance Manual, 2½-ton, 6 x 6, Truck, GMC (Models CCKW-352 and 353).	do	X. ¹
10-1502	Parts List, Truck, 2½-ton (LC), 6 x 6 (4dt), Studebaker (Model US-6).	July 17, 1941	X. ¹
10-1503	Maintenance Manual, Truck, 2½-ton (LC), 6 x 6 (4dt), Studebaker (Model US-6).	do	X. ¹
10-1504	Parts List and Illustrations, Truck, 2½-ton, 6 x 6, International (Model M-5-6).	July 29, 1941	X. ¹
10-1505	Maintenance Manual, Truck, 2½-ton, 6 x 6, International (Model M-5-6).	do	X. ¹
10-1600	Parts List, Truck, 6-ton, 6 x 6 (4 dt), Mack (Model MM-3).	June 28, 1941	X. ¹
10-1601	Maintenance Manual, Truck 6-ton, 6 x 6, Prime Mover, Mack (Model NMSD).	Nov. 19, 1941	X. ¹

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c. *Technical Manuals*—Continued

No.	Title	Date	Changes	Distribution
10-1602	Parts List, Truck, 4-ton, (HC), 6 x 6, Diamond T (Model 967).	July 16, 1941	*C1	X. ¹
10-1603	Maintenance Manual, Truck, 4-ton (HC), 6 x 6, Diamond T (Model 967).	do.		X. ¹
10-1604	Parts List, Truck, 4-ton, 6 x 6, Diamond T (Models 968, 969, and 970).	Oct. 7, 1941		X. ¹
10-1605	Maintenance Manual, Truck, 4-ton, 6 x 6, Diamond T, (Models 968, 969, and 970).	June 28, 1941		X. ¹
*10-1606	Parts List, Truck, 4-ton, 6 x 6, Diamond T (Models 969-A, and 970-A).	Oct. 7, 1941	C1	X. ¹
*10-1607	Maintenance Manual, Truck, 4-ton, 6 x 6, Diamond T (Models 968A, 969A, and 970A).	Oct. 7, 1941		X. ¹
10-1700	Parts List, Truck, 4-ton, 4 x 4 (HC), COE, GMC (Model AFKX-804).	Aug. 20, 1941		X. ¹

10-1701	Maintenance Manual, Truck, 4-ton, 4 x 4 (HC), COE, GMC (Model AFKX-804); Parts List, GMC, 1½-ton, 4 x 2 (LC), COE, K-18, Model No. CF-351.	do	X.1
10-1702			X.1
10-1703	Maintenance Manual, Truck, 1½-ton, 4 x 2, GMC (Model CF-351).	Oct. 1, 1941	X.1
10-1704	Parts List, Truck 5-ton, 4 x 4, COE, Mack (Model NJU-1).	do	X.1
10-1705	Maintenance Manual, Tractor Truck, 5-ton, 4 x 4, Mack (Model NJU-1 and NJU-2).	Aug. 29, 1941	X.1
*11-231	Radio Sets SCR-178 and SCR-179.	Dec. 15, 1941	D(2); Bn and H 6 (5), IC 11 (10).
11-232	Radio Set SCR-177-B.	Aug. 9, 1941	R and H 4 (5); IBn 4 (2); Bn 11 (2); IC 4 (2), 11 (4).
11-239	Radio Set SCR-203.	Aug. 14, 1941	IC and H 2, 6, and 11 (5).
11-273	Radio Sets SCR-193-A, SCR-193-B, SCR-193-C, SCR-193-D, and SCR-193-E.	Apr. 12, 1941	B 1, 2, and 17 (3); R2 and 17 (10); IR 5 and 7 (10); IBn 2, 5, 7, and 17 (3); IC 2, 5, 7, and 17 (5), 11 (10).

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c. *Technical Manuals—Continued.*

No.	Title	Date	Changes	Distribution
*11-300	Frequency Meter Sets, SCR-211-A, SCR-211-B, and SCR-211-C.	Dec. 19, 1941	-----	R 1, 2, 4, 6, 7, and 17 (3); IBn and L 1, 2, 4, 6, 7, 11, and 17 (4).
*11-302	Charging Set SCR-169	Dec. 10, 1941	-----	B 2 (2); IR 2 and 4 (2); IBn 4, 6, and 11 (3); IC 2, 4, 6, and 11 (3).
11-330	Switchboards BD-71 and BD-72.	June 30, 1941	*C1	D 1, 2, 7, and 17 (3); B1, 2, 4, 6, 7, and 17 (2); R 1, 3, 4, 6, 7, and 17 (5); IR 8 (2); IBn 1, 4, 6, and 9 (3); Bn 3 (3); IC 4, 6-9 (2), 3 and 11 (5).
11-331 11-333	Switchboard BD-14 Signal Corps Telephone EE-8 A.	Dec. 10, 1941 Apr. 24, 1940	----- (1)	IC and H 1, 11, and 17 (5). Bn and H (3); IC 3, 4, 6, and 9 (5); C 11 (10).
*11-340	Telephone Central Office Set TC-2.	Nov. 1, 1941	-----	X.
*11-351	Telegraph Sets TG-5 and TG-5-A.	Sept. 22, 1941	*C1	Bn 11 (5); IC and H 4, 6, 7, and 17 (3); IC 11 (5).
11-353	Installation and Maintenance of Telegraph Printer Equipment.	July 2, 1941	-----	R and H 1 (5); Bn 1 and 11 (6); IC 1 (1), 11 (5).
11-360	Reel Unit RL-26 and RL-26-A.	Aug. 21, 1941	-----	R 7 (2); Bn 11 (5); IC and H 1, 6, and 7 (3); IC 11 (5).

11-361	Signal Corps Test Sets EE-65 and EE-65-A.	Aug. 25, 1941		B 1, 2, 4, 6, and 17 (2); R 1, 2, 4-6, and 17 (3); Bn 11 (2); IBn 1, 4-6 (5); IC 2, 4-6, and 17 (3), 11 (5). Bn and H 1, 3-6 (3); Bn 11 (5); IC 3-6, and 11 (5). B (1); Bn 11 (2); C 11 (5); IC 11 (10).
11-362	Reel Unit RL-31	July 1, 1941		R and H 1 (6); B 4 and 6 (3); R 4 (3); IBn 1 (5); Bn 11 (3); IC 1, 4, 6, and 11 (3).
11-410	The Homing Pigeon	Sept. 10, 1940		R and H (3); Bn 4, 6, 9, and 17 (3), 11 (5); IBn 2, 5, 7, and 10 (3); C 11 (10); IC 2-7, 10, and 17 (3).
11-420	Tables of Vertical and Horizontal Compo- nents of Distances of Pilot Balloons.	Aug. 7, 1941		X.
*11-430	Storage Batteries for Sig- nal Communication ex- cept those pertaining to aircraft.	Jan. 16, 1941		
*11-431	Target Range Communi- cation Systems.	do		
11-454	The Radio Operator	Feb. 24, 1941	C1,*2	B (2); R 1, 2, 4-7, and 17 (6); Bn 1 and 11 (10); IBn 2, 4-7, and 17 (3); IC 2-7, and 17 (10), 11 (15).
11-455	Radio Fundamentals	July 17, 1941		D 1, 2, 7, and 17 (3); B (2); R 1-7, and 17 (5); Bn 3, 4, and 17 (5), 1 and 11 (10); IBn 2, 5-7 (5); IC 1 (3), 2-7 (10), 11 and 17 (15).

Pamphlets and changes not listed in FM 21-6, Sept. 1, 1941, are marked with an asterisk ().
 † Section II, Training Circular No. 26, War Department, 1941.

c. *Technical Manuals*—Continued.

No.	Title	Date	Changes	Distribution
*11-461	Air-Ground Liaison Code, Training Edition No. 2.	Sept. 1, 1941	---	B and H 1, 2, 6, 7, and 17 (3); IR 1 (10); R2 6, 7, and 17 (5); IBn 1, 2, 6, and 17 (5); C and H 11 (2); IC 2, 6, 7, and 17 (5), 11 (8).
12-250	Administration	May 1, 1940	---	B (2); R (5); Bn and L (2).
16-205	The Chaplain	Apr. 21, 1941	---	B (2); R (3); IBn (1).
20-250	Field Music	Sept. 20, 1940	---	B (2); R (10); Bn and L (3); IC (20).
*30-220	Corps Area Intelligence	Jan. 8, 1942	---	X.
30-230	Post, Camp, and Station Intelligence, Zone of the Interior.	Mar. 3, 1941	---	X.
30-250	Military Dictionary, Spanish.	Feb. 1, 1941	---	X.
*30-252	Portuguese Phrase Book	Jan. 17, 1942	---	X.
*30-254	Military Dictionary, Russian.	Aug. 5, 1941	---	X.
*30-255	Military Dictionary, German.	do	---	X.
*30-256	Icelandic Phrase Book	Sept. 5, 1941	---	X.
30-257	Military Dictionary, Portuguese.	June 1, 1941	---	X.
*30-450	Handbook on German Military Forces.	Dec. 17, 1941	---	D (5); B (3); R (5); Bn and L (2).

*30-480----	Handbook on Japanese Military Forces.	May 14, 1941	-----	D (5); B (2); R (5); Bn (2); C (3).
*31-200----	Maintenance and Care of Pneumatic Tires.	Jan. 1, 1942	-----	X.

d. Technical Regulations.

TR 1120-5----	Candles-----	Feb.	9, 1931	-----	C and H 1-7, 9, 11, and 17 (5).
1120-75----	4.2-inch Chemical Mortar, MIA1.	Dec.	5, 1939	-----	R and H 3 and 17 (10); Bn 3 (5); C 9 (5); IC 3 and 17 (5).
1210-31----	Radio Set, Type SCR-171.	Dec.	8, 1932	-----	D (2); IBn and H 2, 6, 11 (5).
1230-5----	The Buzzerphone, Type EE-1-A.	Dec.	6, 1929	C1-----	R and H 7 and 11 (5).
1236-1----	Meteorological Message for the Artillery.	June	20, 1934	-----	IC and H 6 and 11 (3).
1300-30G--	Browning Aircraft Machine Guns, Caliber .30; M1918MI and M1919.	May	21, 1929	C1, 2--	C 9 (10); IC and H 1 (10).
1300-30J--	Browning Machine Gun, Caliber .30, M2, Aircraft, Fixed and Flexible Types.	July	15, 1939	(1)-----	D (2); IC and H 1 (10); C 9 (3).
1305-75B--	Gun and Carriage, 75-mm, M1916A1, and M1916-MIA1.	Jan.	2, 1940	-----	D (2); R 6 (5); Bn 6 (5); C 9 (3); IC 6 (10).

Pamphlets not listed in FM 21-6, Sept. 1, 1941, remarked with an asterisk ().

1 Section II, Training Circular No. 10, War Department, 1940.

c. *Technical Regulations*—Continued.

No.	Title	Date	Changes	Distribution
TR 1305-240A	240-mm Howitzer Matériel, M1918 and M1918A1.	Jan. 15, 1933	-----	R 4 (5); IBn 4 (5).
1320-DB	Altimeters	Nov. 29, 1938	-----	D (2); C and H 4 (5); C 9 (3). Do.
1320-DL	Data Transmission Systems, M2, M2A1, and M2A2 Instrument Trailers, M2 and M2-A1 (including Power Units).	Dec. 30, 1938	-----	
1355-75A	Ammunition for 75-mm Field Guns, M1897 (French), M1916 (American), and M1917 (British).	Nov. 21, 1927	-----	IC and H 6 (10); C 9 (3).
1355-155A	Ammunition for 155-mm Howitzers, M1917 (French), and M1918 (American).	Nov. 23, 1927	Cl, 2	D (2); IC and H 4, 6 (10); C 9 (3).
1355-155B	Ammunition for 155-mm Field Guns, M1918 MI (French GPF).	Nov. 25, 1927	Cl, 2	Do.
1355-240A	Ammunition for 240-mm Howitzer, M1918 (Schneider).	Nov. 28, 1927	-----	D (2); IC and H 4 and 6 (10); C 9 (3).

1365-14A--	Ammunition for 14-inch Guns, M1907, M1907-M1, M1909, M1910, M1910M1, and M1920.	May 10, 1928	C1-----	IR and L 4 (10); C 9 (2).
1400-30A--	U. S. Rifles, Caliber .30, M1903, M1903A1, and M1917.	Aug. 10, 1938	-----	D (1); C and H 9 (5).
1400-30E--	Browning Automatic and Machine Rifles.	Nov. 28, 1928	-----	Do.
1405-A-----	Special Field Artillery Vehicles.	Dec. 10, 1932	-----	D (1); IC and H 4 and 6 (5); C 9 (5).
1405-75B--	Gun and Carriage, 75-mm, M1916A1 and M1916-M1A1.	Jan. 2, 1940	-----	D (1); IC and H 6 (5); C and H 9 (5).
1405-155A--	155-mm Howitzer Matériel, M1917A, M1917-A2, M1917A3, M1918 and M1918A1, M1917 and M1918.	do-----	-----	Do.
1405-155C--	155-mm Gun Matériel, M1918.	Mar. 16, 1931	C1-----	Do.
1410-120---	Instructions for Ordnance Maintenance Companies, 37-mm Gun Matériel, Infantry and Tank Types.	Mar. 29, 1926	-----	D (1); C and H 9 (5).

SECTION IV

TRAINING FILMS AND FILM STRIPS

■ 20. GENERAL.—*a.* Training films and film strips, supplemented by illustrations in printed manuals, constitute the primary visual aids for training the Army. The purpose of this section is to describe specifically the visual aid facilities furnished by the War Department, to explain how they are intended to be used and how they are made available for use, in order that all personnel responsible for the conduct and supervision of training can employ them to the maximum advantage in accomplishment of the training objective.

b. Training films.—Military training films are sound motion pictures produced specifically for use as aids in expediting and standardizing instruction of the Army. They teach through the eye and ear combined and by thus utilizing two of the physical senses compel interest, and impress a lasting picture of the lesson or lessons presented.

c. Film strips.—A film strip is a series of still transparencies portrayed on individual, consecutive frames of a strip of 35-mm motion picture film. Film strips are designed for instructional purposes in those subjects where no concept of motion is involved. Since any individual frame can be held on the screen as long as desired, film strips are of great value in enabling the student to check his work with the correct procedure or technique shown on the screen, or to permit the instructor to point out and discuss appropriately vital points of the discussion.

d. Value as training aids.—When correctly used by training agencies, training films and film strips are powerful aids in expediting and standardizing instruction. They are neither designed for, nor can they be most effective as, the sole means of class or unit instruction. They are not a substitute for practical application, *but are intended for use by the instructor as instructional aids.* Their improper use indicates a failure on the part of training agencies to understand and apply the methods of instruction discussed in section VI, FM 21-5, Military Training.

■ 21. PURPOSE OF VISUAL TRAINING AIDS.—*a. General.*—In the expansion of the visual aid program the War Department has

merely adopted the most advanced and proven instructional methods of recognized experts in the teaching profession. Experience has demonstrated that the proper use of visual aids better illustrates the textbook and other conventional forms of instruction as well as materially shortens the time required for the absorption of new information. These considerations are of primary importance in a military program which has for its objective the welding of large numbers of untrained troops into efficient combat units in a minimum of time. By making available training films and film strips covering the entire field of military subjects, training agencies have been provided with a valuable medium which can assist them in the rapid accomplishment of their training missions. The maximum potential instructional value of these aids can never be attained, however, until all personnel charged with the conduct of training are prepared to consider the question of their usefulness with an open mind, and utilize them properly.

b. Classes of training films.—(1) Training films are designed for use in the applicatory system of instruction and ordinarily in the explanation and demonstration phases (pars. 66-67, FM 21-5). They are often invaluable to the instructor in providing for the troops a general orientation to the course. During discussion or review they may be also used to advantage for demonstrating correct procedures and methods or techniques which should have been followed in practice. They are of material assistance to officers in preparing themselves to give instruction, or to provide a quick review of a subject prior to the conduct of a training inspection.

(2) Since training films are intended for a definite purpose and for use at a specific time and place in the training program they are divided into the following classifications:

(a) *Basic.*—This type of film presents factual knowledge for general instruction and is intended for every arm and service. It is designed to equip enlisted men with basic information as early as possible in their military careers. Since the great majority of these men have acquired the national habit of seeking general information as well as entertainment in the motion picture theater, this type of film exploits this habit by incorporating to the fullest extent, human interest factors based on accepted military doctrine. Examples of

this basic type are the films on "Sex Hygiene," "Personal Hygiene," "Military Courtesy and Customs of the Service," and the "Articles of War."

(b) *Mechanical*.—Subjects in this class explain the mechanical functioning or operating characteristics of weapons, matériel, and equipment; illustrate the organization or equipment of units; and explain physical or chemical phenomena of military value. Examples of this type of film are those pertaining to the theory of aerial gunnery, the construction and operation of various types of motors, the stripping, assembling, and functioning of various ordnance, and organization or equipment.

(c) *Technical*.—Films of this class illustrate the use of weapons and equipment, and the actions of an individual or a group in performing an operation or series of operations. Examples are films dealing with the use of various types of pioneer equipment; the duties of personnel manning various crew-served weapons; and the technique of fire of weapons.

(d) *Tactical*.—Films of this type illustrate the application of basic combat tactics of the different arms and services. The titles of such films are self-explanatory.

■ 22. **ADVANTAGES OF TRAINING FILMS.**—In any training program the proper use of training films, carefully integrated with the training schedule, possesses the following advantages:

a. *Saving in training time.*—(1) Training films concentrate attention on essentials by showing only the significant action or thing. Interest-diverting factors are eliminated.

(2) They bring demonstrations of tactical exercises or equipment to the troops, thus eliminating the time-consuming factors of moving troops to demonstration areas.

(3) The same demonstration can be shown repeatedly without expending time and labor in setting up facilities or equipment for each demonstration. This further contributes to a savings in equipment, material, and transportation.

(4) Instruction in the care, maintenance, and operation of new material is often available in training films before the arrival of this equipment in the field, thereby enabling troops to be better prepared to operate it immediately upon its delivery.

b. *Improvement in quality of instruction.*—(1) Local limitations of terrain, highly trained personnel, time, funds, or

facilities may frequently restrict many organizations in conducting demonstrations sufficiently adequate in scope and perfection of detail to meet the objective sought. Regardless of their location or local limitations, demonstrations are available to *all* of the field forces by means of training films which in their production utilize the advantages of carefully coordinated and rehearsed service school demonstrations, prepared under the most favorable conditions of terrain, facilities, and thoroughly trained personnel. Standardization of instruction to widely scattered troops will result.

(2) In the mechanical functioning of weapons or motors, action which is concealed from view by exterior parts, or is so slow or fast that it cannot be observed in its normal operation, is clearly depicted by means of animation or slow motion.

(3) Training films permit all members of an organization to see and hear simultaneously all phases of an action, which otherwise could be seen and heard by only a few observers close to the operation being discussed.

■ 23. PREPARATION OF TRAINING FILMS.—The various steps required in the production and release of a training film are similar to those involved in the preparation and publication of a training manual or other form of training literature. Extreme care is exercised in all stages of production in order to insure accuracy for instructional purposes, as a film permits no interpretation or correction by the instructor after it has been shown to troops. Since retention by the observer of the visual image presented by a film is vastly more complete and lasting than the same impression received from the spoken or written word, the standard of performance established for the observer must approach perfection as closely as possible. Each film follows the principles of accepted teaching method, is designed for showing before a particular audience group, and conforms in all details to approved War Department doctrine or technique.

■ 24. PROJECTION FACILITIES.—*a. Release prints.*—Training films are released in both 35-mm and 16-mm sizes. Lists of all training film and film strip subjects which have been released, with a brief outline of their scope, are contained in paragraph 33*b*, *c*, and *d* below. Lists of subjects released between successive revisions of this manual are published in

War Department Training Circulars and incorporated in the succeeding revision.

b. Motion picture projectors.—(1) Two types of sound motion picture projection equipment are now in use in the Army. One type is the large, 35-mm, regular theater-size projector which is installed in all theaters operated by the U. S. Army Motion Picture Service. At posts where U. S. Army motion picture theaters are in operation the 35-mm equipment is available for the projection of training films at such times as will not conflict with regularly scheduled showings of the U. S. Army Motion Picture Service. (Par. 7e, AR 210-390.)

(2) The second type of projection equipment available is the portable 16-mm sound projector. This equipment is suitable for the projection of films before groups of the size of a company or similar organization, and can be used in any recreation room, mess hall, or other location capable of being darkened and provided with a convenient power outlet. While projectors are now shipped on the basis of one per regiment, War Department Tables of Basic Allowances are being revised to provide for a distribution of one per battalion, for training purposes only.

c. Film strip projectors.—Film strip projectors have been provided on the basis of one per battalion or similar organization. The portability of this equipment likewise enables it to be rotated among the companies of the battalion and used in any location equipped with a suitable power outlet. Unlike the motion picture projectors, however, the light source of the film strip projector is of sufficient magnitude as not to require a darkened room. Film strips may be projected upon the outer walls of buildings which are not in the direct rays of the sun.

d. Operation of projectors.—The projection equipment furnished by the War Department for training purposes is rugged, durable, and easy to operate. Observance of the following simple rules will result in improved projection qualities and reduced maintenance problems:

(1) Follow carefully the instructions accompanying projection equipment in regard to threading of the film and adjustment of the equipment.

(2) Protect from excessive moisture.

(3) Oil projection equipment when necessary but do not get oil on the film.

(4) Keep sprocket teeth, aperture plates, and lenses free of dirt.

(5) Keep loose ends of film off the floor and keep film clean.

(6) Film can be cleaned of dirt and grease with a soft, clean cloth. This cloth can be saturated with carbon tetrachloride if it is desired to clean thoroughly the film of oil and grease. This must be done while winding the film slowly across a pair of rewinders and allowing the tetrachloride to evaporate before it reaches the take-up reel. Adequate ventilation should be provided during this process.

(7) In repairing sound film, in the areas where no modulation of the sound track occurs, several picture frames may be removed without seriously affecting the picture. Whenever modulation of the sound track occurs, two or three frames may generally be removed without seriously affecting the resultant sound. Removal of any considerable length will generally cause the loss of complete words or mar their intelligibility. Wherever this occurs, a report will be made to the office from which the film was obtained so that the necessary reprints can be made.

(8) Motion picture projectors cannot be run backward or stopped to permit projection of individual frames of film. Proper reproduction of sound necessitates a uniform film speed of 90 feet per minute for 35-mm films and 36 feet per minute for 16-mm films.

■ 25. STORAGE OF FILMS.—*a.* For instructions governing storage of nitrocellulose films, see AR 850-65. Nitrocellulose (nitrate) film is highly inflammable and must be afforded fireproof storage.

b. Cellulose acetate (safety) film ignites and burns approximately the same as ordinary newspaper. Storage conditions considered satisfactory for ordinary newspaper are usually satisfactory for cellulose acetate film.

c. In most instances the film manufacturer indicates on the film whether the film is nitrate or safety. If no designation can be found, the following test is recommended:

Place a small piece of film in a spoon and heat the spoon with a candle. If the film ignites with a "pop" and combus-

tion is completed immediately, the film is cellulose nitrate. If the film smolders slowly and burns quietly for a few seconds, the film is cellulose acetate.

d. All 16-mm films are on safety base and are subject to the same storage regulations as 35-mm safety film. All 35-mm release prints made subsequent to 1940 are on safety bases.

■ 26. RULES FOR USE OF 35-MM FILMS.—The following instructions will govern in connection with the use of standard or 35-mm films:

a. A qualified operator only will be permitted to operate the projector.

b. Nitrate films are highly inflammable or even explosive under certain conditions; therefore, they must not be exposed to excessive heat or to fire hazards such as furnaces, stoves, open flame, heating pipes, or to the projector light beam except while the projector is running. Safety films, although not as highly inflammable as nitrate, should be handled with similar precaution during projection.

c. Smoking will not be permitted in the projection booth or elsewhere near the films.

d. While threading up the projector and at all other times when the film breaks or stops moving across the aperture, the douser on the lamphouse will be closed.

e. Magazine doors and the door to the projector head will be closed before starting the machine.

f. In case the film catches fire in the projection head, stop the machine.

DO NOT OPEN MAGAZINE DOORS. LEAVE IMMEDIATELY.

g. A chemical fire extinguisher and a bucket of sand will always be kept in the projection booth for emergency use.

h. In the standard or 35-mm size, either silent or sound films can be run through either the silent or sound type of projector without physical damage to the film.

■ 27. RULES FOR USE OF 16-MM FILMS.—*a.* The substandard or 16-mm films are all of the slow-burning or "safety" base type and consequently are not hazardous to handle in projection.

b. They will be protected from excessive heat.

c. The 16-mm sound film subjects are on single sprocket hole type film with the sound track occupying the area

normally occupied by the second row of sprocket holes in the silent type film. On the silent type projector 16-mm sound film subjects cannot be run. They can be used only on the sound type equipment.

d. Silent type subjects in 16-mm size can be run through 16-mm sound projectors without damage.

e. Sound pictures necessitate a 50-percent increase in projection speed over the silent type. Most 16-mm sound film projectors provide for two speeds:

(1) Sound picture speed.

(2) Silent picture speed.

Satisfactory sound cannot be obtained by running sound films at silent film speed.

f. During outside operation of 16-mm motion-picture equipment, many insects are attracted to the strong light of the projector as the film is unwound from one reel and wound on to the other reel. Insects attach themselves to the film and are wound on the reel. Chemical reaction resulting from the decomposition of the insects which have been wound on the film often injures the film and in some cases the film is ruined. In order to avoid this during operation of 16-mm projection equipment out-of-doors, an electric fan should be operated continuously upon the projector and upon the reel on which the film is wound after the film is run through the projector.

■ 28. DISTRIBUTION OF TRAINING FILMS.—*a. General.*—Training films have been made available to all training agencies by means of a library system of distribution and circulation, designed to insure a flexible and economical use of these facilities consistent with a wide variety of training needs. In order that the maximum benefits may be obtained from a proper integration of training film subjects in the training program, a knowledge of the availability of training film libraries, and the manner in which subjects may be obtained therefrom, is essential for all personnel charged with the conduct of training.

b. Film libraries.—(1) A central distribution library for training films is maintained at each corps area headquarters and oversea department. This library is stocked with all training film subjects released by the War Department as listed in paragraph 33 below and successive editions of this

manual. The central distribution library provides a training film distribution service, on a temporary loan basis, to all organizations within the corps area or department. Requests from posts or separate organizations to which a sub-library is not available (see (2) below) will be addressed to the corps area commander specifying whether a 35-mm or 16-mm size is required (see pars. 19 and 20, AR 105-260).

(2) Training film sub-libraries are established at major troop concentrations, including divisional camps and replacement training centers, within the continental United States, and at oversea bases. The purpose of the sub-library is to have immediately available for the troops served therefrom the subjects for which there is a relatively constant training need. Other subjects for which there is only an occasional or infrequent need are obtained from the central distribution library on a temporary loan basis by timely requests to the corps area commander. The initial stockage of these sub-libraries by the War Department is based on the recommendations of chiefs of arms and services concerned, after consideration of the training objectives of the troops stationed at these locations. Subjects not initially stocked at sub-libraries, and for which a continuing training need subsequently develops, may be obtained for permanent retention by the sub-library upon request to the Chief Signal Officer. Subjects initially stocked and which are subsequently found to be needed rarely, or not at all, *should be promptly reported to the Chief Signal Officer in order that they may be made available elsewhere.* Separate or small organizations located in close proximity to sub-libraries, but not a component of the major troop concentration served therefrom, may obtain training film subjects on a temporary loan basis upon application to the most convenient sub-library.

(3) Auxiliary libraries under the control of local sub-libraries, are established at posts where schools are situated, or where circumstances make advisable. The auxiliary libraries so established are provided with training films in accordance with their needs by the local sub-library.

(4) Reception center libraries are established at each reception center for their exclusive use. These libraries are stocked with prints of those basic training subjects which are *required* by War Department instructions to be shown to

personnel passing through the reception center. These subjects are—

- (a) TF 8-154 Sex Hygiene
- TF 8-155 Personal Hygiene
- TF 11-157 Military Courtesy and Customs of the Service
- TF 11-235 Articles of War

(b) Provided the interim between their processing and forwarding to units or installations to which assigned permits, all personnel passing through reception centers will also attend a showing of the following basic subjects:

- TF 8- 33 First Aid, Parts I-III
- TF 8-150 First Aid, Part IV. Injuries and Accidents
- TF 7-248 Instruction of the Soldier, Dismounted, Without Arms, Positions and Facings

(5) The procedure for the distribution of training films described in the preceding subparagraphs applies to all elements of the United States Army except the Army Air Forces. The method of distribution for those forces is described in A. A. F. Regulations No. 65-4.

■ 29. DISTRIBUTION OF FILM STRIPS.—The initial distribution of film strips is made by the War Department directly to organizations upon recommendation of the chiefs of the arms and services. Subsequent distribution is made by the Chief Signal Officer upon direct request of the organization or installation desiring them.

■ 30. USE OF TRAINING FILMS.—*a. General.*—Two requirements are fundamental in the use of visual training aids if they are to accomplish the results of which they are potentially capable. The first requirement is a local, centralized responsibility for the physical control of projection equipment and films. The second is a clear understanding on the part of all instructor personnel of what visual instruction is and how visual aids should be utilized in unit training.

b. Equipment and facilities.—Training films, film strips, and the equipment required for projecting them are facilities provided specifically for training purposes. Their use must be coordinated by the local commanding officer in the same manner as other limited training facilities, such as rifle ranges, to insure that each unit of his command may have

its necessary share of time for use in training (par. 19, FM 21-5). While the local signal property officer is accountable for projection equipment and films, *property responsibility is a function of the training section of the local commander's staff to insure the constant availability of this equipment for training purposes.* A suggested organization for properly utilizing visual aids in a combat division, and the scope of its functions is outlined below. This functional operation may be modified to conform to any unit or training installation.

(1) A designated officer in the operations and training division or section will be responsible for visual aid training in the division.

(2) This officer will have property responsibility for all projection equipment furnished the division and coordinate its use among the subordinate units of the division to insure that the maximum benefit is obtained from it. He will arrange with the local sub-library serving his division for prints of training films required in the division.

(3) He will maintain an up-to-date catalog of all films in the sub-library serving the division with a synopsis of their scope and running time and the number of prints of each subject.

(4) He will maintain a booking schedule to provide for the use of films within the division which will enable him to fill and adjust timely requests for films to be included in subordinate training schedules.

(5) Upon arrival of new films in the sub-library he will arrange for an early showing to all subordinate operations and training officers so that they may be promptly informed of the availability of new material.

(6) He will continually check on the use being made of training films by subordinate units in the division to see that all training agencies are familiar with the subjects in the film library and the scope of each; that these subjects are integrated in the training schedules at the proper time, and are being presented in accordance with proper instructional method. By his thorough knowledge of all phases of the training program, he will assist subordinate training agencies in obtaining the maximum benefits of these facilities.

c. Use by instructors.—The value of training films and film strips as training aids in enabling instructors to accomplish

their training mission is in direct proportion to the effective utilization of these aids by instructors in their conduct of training. This implies a clear understanding on the part of personnel charged with training of what visual instruction is and its capabilities and limitations. Training films are not automatic teachers which take the place of the instructor. Because a thing or subject is observable it is not necessarily observed. While much can be learned from simply seeing and listening to films, full advantage is not taken of their potentialities as training aids if the instructor does nothing more than screen them. The following procedure is suggested for all training echelons in obtaining the maximum effectiveness from the use of training films and film strips:

(1) In formulating the training program, the operations and training officer will include as text references training films and film strips pertinent to the scope of training prescribed for each subject. This requires a familiarity with the material available in the local film library in b(5) above as well as a knowledge of subjects contained in paragraph 33 below. Since the existing state of training varies so widely in different organizations, the operations and training officer will preview all training films or film strips in the same manner that he reviews a training manual or other form of literature, to insure that the visual aids he includes in his program are applicable to the particular training mission in each subject.

(2) In the same manner that he anticipates the need for other limited training facilities and makes timely provision for their availability when needed by subordinate echelons, the operations and training officer will coordinate the use of the limited amount of projection equipment allotted the regiment.

(3) Before preparing his detailed schedule the company or similar unit commander will preview the training films and film strips cited as text references to determine at what period in the instruction a particular film will be most useful. In certain films having several parts, only that part having particular reference to the specific phase of the subject then being taught should be shown. Certain films deal with general principles and activities in a given situation. Others show in detail how some particular operation is carried out.

The first would be more suited to giving a general orientation at the beginning of a course of instruction, or for review purposes at the completion of the course. The second would give best results at a definite point in the course after the general principles have been assimilated. Only a preview of available films will determine whether or not they are applicable, and where, in the schedule, they can be used most profitably.

(4) The instructor designated in the training schedule to conduct training in a specific subject must coordinate all available material in his lesson planning (see pars. 88-92, FM 21-5). This requires a preview of the film or film strips to be used, since a knowledge of their content on the part of the instructor, is as equally essential as his knowledge of texts or any other material used in the presentation of the subject. Failure on the part of any instructor to familiarize himself thoroughly with the content of a film prior to its screening will result in his inability to discuss the pertinent points illustrated, cause embarrassment to the instructor and waste valuable training time.

(5) With 16-mm projection equipment, audiences should be limited to groups not exceeding a company in size; and preferably to a platoon. If larger groups are present the screen image is not sufficiently bright to permit the personnel in rear to see it without eye strain and with resulting loss of interest. Certain types of basic films such as "Sex Hygiene" and "Articles of War" can well be shown in War Department theaters before large audiences.

(6) Ordinarily screenings should not exceed 30 minutes in length with films on not more than one subject shown in each half day of instruction.

(7) The mechanism of instruction as described in paragraph 64, FM 21-5 should be followed whenever training films and film strips are used. The instructor should preface the showing of the film or film strip by a brief explanation of the object or scope of the film and the essential points which should be looked for by the audience. The screening of the film provides the demonstration phase. Whenever possible the object or equipment being shown on the screen should be present in the classroom. This is especially desirable where film strips are used to describe equipment or illustrate a manual operation, as it enables the student to check his work

with correct procedure on the screen as explained by the instructor. If it is impracticable to bring larger items of matériel into the classroom, the class should be taken to them immediately following the screening in order that they may inspect or operate the object itself and crystallize the screen presentation while it is still fresh in their minds. This constitutes the application phase.

(8) Following the screening of each film, a brief examination should be conducted by the instructor for the purpose of reviewing the essential points of the subject and impressing them on the minds of the students. This examination may be oral or written but the questions should be carefully prepared, confined to the content of the film and designed to determine the student's understanding of the material presented. Appendix I gives a suggested technique with question and answer form, for conducting an examination. An informal summation conducted by the instructor should follow the examination to clarify important points of the subject.

■ 31. ERRORS IN USE OF VISUAL TRAINING AIDS.—As the result of surveys conducted by the War Department the following more common errors have been noted in the use of training films by various training agencies:

a. Failure to integrate appropriate training films at the proper time in the training schedule. Since each training film is intended for instruction in a specific subject it can have little instructional value if it is not used at the time troops are receiving instruction in that subject.

b. Use of training films as fillers-in for rainy day or inclement weather instruction. This results from an inadequate or improper training plan. Responsible commanders must insure that units do not use films in this manner.

c. Failure of instructors to apply correct instructional methods as prescribed in section VI, FM 21-5. This has resulted in—

(1) Marching troops to a theater or projection room and showing them a film without explanation as to what they are to see and why they are to see it.

(2) Failure of the instructor to insure that classroom facilities, especially ventilation, are adequate. (See par. 85, FM 21-5.)

(3) A complete absence of any discussion following the film, or check to determine whether the audience has absorbed the subject matter.

(4) The consecutive showing of a number of unrelated films without interruption.

(5) Showing of films to audiences so large in size that the instructor is unable to exercise proper supervision. This results in loss of control by the instructor and loss of interest by the audience (see par. 30c(5) above).

(6) Lack of knowledge or preparation by the instructor, resulting from his failure to preview the training film or film strip prior to screening.

(7) Insufficient and ineffective supervision by higher commanders of the use of training films and prompt remedial action to eliminate indifference or incorrect methods.

■ 32. ASSISTANCE TO TRAINING AGENCIES.—A visual aid section composed of experts in visual education is being established in the War Department under the supervision of the Chief Signal Officer. Personnel from this section will make periodic visits to the field for the purpose of inspecting projection equipment and library facilities. This personnel also will be available to training agencies for consultation and recommendation relative to the local utilization of visual training aids. All training agencies are encouraged to avail themselves of the experience of this personnel during their visits of inspection with a view to obtaining their suggestions as to how the maximum benefits may be attained from visual aids in military training.

■ 33. LISTS OF TRAINING FILMS AND FILM STRIPS.—*a. General.*—The lists below show the training films and film strips published to date by number, title, and year of release, together with a brief synopsis of their content.

b. Sound training films.—(1) All subjects are available in the standard 35-mm size and those available also in 16-mm size are so indicated after the title. Silent 16-mm films can be run on 16-mm sound projectors without damage to the film; *but sound 16-mm films CANNOT be run on silent 16-mm projectors without destroying the film.*

(2) All films not permanently stocked at sub-libraries or auxiliary libraries may be obtained by application to corps

area central distribution libraries. (See par. 28b(2) above and par. 19, AR 105-260.)

(3) Numbers indicate the branch primarily responsible for the preparation of the subject matter (see par. 3) and the Signal Corps serial number of the film.

(4) Subjects applicable to more than one arm or service are indicated by an asterisk (*).

(5) Subjects under preparation and whose release had not been completed on date of publication of this manual are indicated by a dagger (†). The release of these subjects is expected on or before April 1, 1942. The number of reels and running time of each subject are shown on the film container.

c. Silent training films.—(1) Silent training films are no longer being produced but a limited number are still in circulation. These are being withdrawn as rapidly as they can be revised and replaced by sound films. These films are not stocked in sub-libraries but may be obtained for temporary loan by application to corps area commanders. All subjects are available in the standard 35-mm size, and those available also in 16-mm size are so indicated after the title. Silent 16-mm films can be run on 16-mm sound projectors without damage to the film.

(2) See b(3) and (4) above.

Sound Training Films

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 1-27-----	1938	Attack Aviation—Bombardment of Airdromes. (Also 16-mm sound.) (Selection of targets. Assignment of missions. Method of attacking a target, rally points, formations.)	2	19
1-107-----	1940	Attack Aviation—Infantry Targets. (To be shown to officers and Air Corps audiences only.) (Also 16-mm sound.) (This training film describes low-flying aviation, the equipment, crew, and armament. The operation of low-flying bombardment is demonstrated. The use of machine guns, bombs, and liquid chemical spray is described and demonstrated. Types of targets are described and shown.)	2	16
*1-115-----	1940	Air Corps Observation—Field Artillery Missions. (Also 16-mm sound.) (Shows how observation aviation assists the artillery by locating targets and by sensing fire. Illustrations are first given, followed by demonstrations, showing the complete mission from the initial conference to the final "check-out," including the procedure of proper adjustment of fire in each case.)	5	44

1-116	1940	Theory of Aerial Gunnery, Forces Acting on the Projectile. (Also 16-mm sound.) (By means of animated drawings the various forces acting upon a projectile when fired from an airplane are discussed in detail. These forces are the propellant force, gravity, air resistance, draft due to rotation of the projectile, and the force due to the movement of the airplane.)	1	11
1-117	1940	Theory of Aerial Gunnery, Sighting. (Also 16-mm sound.) (Mainly by means of animated drawings the fundamentals of sighting a machine gun from an airplane in flight are discussed. Various types of sights and methods of mounting machine guns are shown.)	2	17
*1-133	1941	Modern Weather Theory and Structure of Storms—Development and Characteristics of Atmospheric Waves. (Also 16-mm sound.) (This picture shows how atmospheric waves are formed and developed and discusses the kind of weather associated with various parts of a typical wave.)	2	19
*1-134	1941	Modern Weather Theory and Structure of Storms—Primary Circulation. (Also 16-mm sound.) (This picture discusses convection, deflection of air currents due to various causes; the formation of a polar front and the restoration of equilibrium.)	2	14

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *1-135-----	1941	Aircraft Engines—Types, Mechanism, and Oiling System. (Also 16-mm sound.) (This picture shows various types of airplane engines and by animated drawings covers the principles involved in their operation. It also shows by animated drawings various systems and methods of lubrication.)	4	36
*1-136-----	1941	Aircraft Engines—Elements of Electricity as Applied to Ignition Systems. (Also 16-mm sound.) (This picture by means of animated drawings covers the subjects of elementary electricity and magnetism and applies the principles involved to engine ignition systems.)	3	28
*1-137-----	1941	Aircraft Engines—Carburetion. (Also 16-mm sound.) (Various types of carburetions are discussed, the principles of operation shown by animated drawings, and the application to airplane engines explained.)	4	36

1-138.....	1941	Aerial Photography—Introduction. Aerial Camera Types. (Also 16-mm sound.) (This picture covers in some detail the various types of cameras used by the Air Corps for aerial photography. In general it discusses the care which must be exercised in the operation and maintenance of these cameras.)	1	10
1-139.....	1941	Aerial Photography. (Also 16-mm sound.) (This picture discusses in detail the K-12 Camera, showing its use, the action and precaution which must be taken in loading, operation, and maintenance.)	1	11
1-140.....	1941	Aerial Photography—The A-1B Magazine. (Also 16-mm sound.) (This picture discusses in detail the A-1B Magazine showing the action and precautions which must be taken in loading, operation, and maintenance.)	1	9
1-141.....	1941	Aerial Photography—The T-3A Camera. (Also 16-mm sound.) (This picture discusses in detail the T-3A camera showing the action and precautions which must be taken in loading, operation, and maintenance.)	2	16
1-142.....	1941	Aerial Photography—Processing the Film. (Also 16-mm sound.) (This picture shows in detail the actions and precautions which must be taken in developing the film and making prints therefrom. It also shows how aerial photographs are used in making mosaics.)	2	21

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 1-153-----	1941	Modern Aladdin's Lamp. (Also 16-mm sound.)----- (A commercial film showing the details of manufacture and operation of vacuum tubes. This film was originally produced for the Western Electric Company.)	3	22
1-160-----	1941	Aerodynamics—Air Flow. (Also 16-mm sound.)----- (This picture shows by means of visible air streams the turbulence and magnitude of the wake produced by various angles of attack and various types of airfoils.)	2	18
1-161-----	1941	Aerodynamics—Forces Acting on an Airfoil. (Also 16-mm sound.) (This picture defines relative wind, lift, and drag, and by means of animated drawings it shows their effects. It also shows methods by which measurements of these forces are made in wind tunnel tests.)	3	26
1-163-----	1941	Synchronization, Aircraft—Principles of Synchronization. (Also 16-mm sound.) (This picture covers the definition and need for synchronization. Also describes the units which accomplish synchronization and indicates the manner in which these units function.)	1	8

1-164-----	1941	Synchronization, Aircraft—Care and Maintenance of Synchronizing Units. (Also 16-mm sound.) (This training film covers the definition and need for synchronization, and the principles involving operation.)	2	15
1-174-----	1941	Aircraft Hydraulic Systems, BC-I Airplanes. (Also 16-mm sound.) (The title is self-explanatory.)	2	15
1-175-----	1941	Aircraft Hydraulic Systems—Maintenance. (Also 16-mm sound.) (This training film covers proper methods for assembly and maintenance of hydraulic systems in aircraft.)	4	33
*1-206-----	1942	Telegraph Printer—Operation. (Also 16-mm sound.) --- (Content of this film is as indicated in the title. De-tailed use of animation is an aid to clarity.)	2	15
*1-207-----	1942	Telegraph Printer—General Principles. (Also 16-mm sound.) (Content of this film is as indicated in the title. De-tailed use of animation is an aid to clarity.)	1	7
1-211-----	1941	Airplane Structures—Structural Units, Materials and Loads for which Designed. (Also 16-mm sound.) (This film shows various types of airplane structural units. It serves as an introduction to a series of films covering detailed construction of wings, fuselage, control surfaces, and alighting gear.)	1	8
1-212-----	1941	Airplane Structures—Wing Construction. (Also 16-mm sound.) (Discloses details of type wing construction in photographs and diagrams.)	1	11

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 1-213-----	1941	Airplane Structures—Fuselage Construction. (Also 16-mm sound.) (Shows construction of several types of fuselage and the comparisons in principle and matériel.)	1	8
1-214-----	1942	Airplane Structures—Control Surfaces. (Also 16-mm sound.) (This film shows through photography and animation, the construction and operation of the control surfaces of the airplane, such as the ailerons, stabilizer, elevator, fin, rudder, etc.)	1	10
1-215-----	1942	Airplane Structures—Alighting Gear. (Also 16-mm sound.) (This film covers, in photographic and animated detail, the construction and operation, on both fixed and retractable gear, of the struts, wheels, drag links, brakes, shock absorbers, and retracting motors and allied devices. Thorough and well organized from a motion picture production viewpoint, the film is interesting to affected personnel, though somewhat fundamental.)	1	10

*1-221-----	1941	Small Arms Ammunition—Handling and Storage. (Also 16-mm sound.) (This picture shows approved methods of handling and storing small arms ammunition.)	1	11
*1-222-----	1941	Small Arms Ammunition—Calibers .50, .30, and .45 Cartridge. (Also 16-mm sound.) (The purpose of this film is to familiarize the student with small arms ammunition in general. It shows the construction and use of the various types of small arms ammunition included in the title.)	1	9
*1-223-----	1941	Small Arms Ammunition—Loading. (Also 16-mm sound.) (This picture shows approved methods of loading small arms, including the automatic pistol, Springfield rifle, Garand rifle, automatic rifle, and sub-machine gun.)	2	19
*1-226-----	1942	Aerial Bombs—Loaded. (Also 16-mm sound.)----- (This film shows the construction and component parts of all various types of bombs, the methods of handling them, setting the fuzes, loading the bombs into the bomb bays, and the responsibilities of the officers and men directly concerned with this operation.)	2	13
1-227-----	1941	Aerial Bombs—Practice. (Also 16-mm sound.)----- (This film deals primarily with the M-38-A-2, 100-pound practice bomb, and the M-37 parachute practice bomb, showing the general assembly of fuses and spotting charges.)	2	13

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *1-229	1941	Wizardry of Wireless. (Also 16-mm sound.) (A commercial film covering elementary technical aspects of radio communications.)	2	19
1-238	1942	Tow Targets—Launching. (Also 16-mm sound.) (This film shows the various types of sleeve and flag anti-aircraft tow targets, the technique of handling and launching targets and methods of loading and releasing.)	2	16
1-239	1942	Tow Targets—Operation and Maintenance—C-5 Windlass. (Also 16-mm sound.) (A discussion of the care and maintenance of all mechanical equipment pertaining to tow targets, the windlass, cable, fastenings, drag assembly, release cones, etc.)	2	16
1-245	1941	Aerial Navigation—Maps and the Compass. (Also 16-mm sound.) (Teaches the fundamentals of maps, compass, and the proper uses and coordination of both.)	2	13
1-246	1941	Airplane Propellers—Design and Operation. (Also 16-mm sound.)		
1-247	1941	Synchronization of Aircraft, Installation and Adjustment. (Also 16-mm sound.)		

1-255.-----	1941	Aerial Bombs—Equipment for Loading Bombs. (Also 16-mm sound.) (This film deals with the essential equipment used by the Air Corps in preparing, transporting, and loading bombs into airplanes.)	2	16
1-256.-----	1941	Aerial Bombs—Methods of Loading Bombs. (Also 16-mm sound.)	1	8
*1-258.-----	1942	Identification of Aircraft—General Characteristics and Types of U. S. Military Airplanes. (Also 16-mm sound.)	2	15
1-259.-----	1941	Identification of Aircraft—Distinguishing Features of U. S. Military Airplanes. (Also 16-mm sound.) (This title is self-explanatory.)	2	19
1-260.-----	1942	Aircraft Machine Guns and Cannon—.50 Machine Gun—Stripping and Assembling. (Also 16-mm sound.) (This vivid combination of photography and animation gives a thoroughly comprehensible picture of the mechanical operation of the various parts, assemblies, and subassemblies of the caliber .50 machine gun.) The script was evidently prepared so as to avoid complex details which would be of only academic interest to other than a ballistic expert. The result gives the gunner all the information he requires and enough additional principles of operation to make his gun a clearly understood implement rather than an awe inspiring maze of high speed, lethal steel parts.)	2	

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 1-261-----	1942	<p>Aircraft Machine Guns and Cannon—Caliber .50 Machine Gun—Operation. (Also 16-mm sound.) (The clearly developed story of this film covers the detail of the disassembly and assembly of the caliber .50 machine gun. Next shown is the detail of the bolt group, oil buffer group, breech assembly. Finally we see the proper cleaning and oiling of the entire gun.)</p>	2	15
1-288-----	1942	<p>Hamilton Constant Speed Propeller—Reassembly and Adjustment. (Also 16-mm sound.) (Shows in lucid detail construction and step by step reassembly of Hamilton constant speed propeller.)</p>	4	37
1-289-----	1942	<p>Hamilton Constant Speed Propeller—Installation. (Also 16-mm sound.) (Shows in detail each step in the installation of the propeller.)</p>	1	9
*1-294-----	1941	<p>Identification of Aircraft—Characteristics of Foreign Aircraft—German pursuits Me-109. (Also 16-mm sound.)</p>	1	8

1-310-----	1941	Curtiss Electric Propeller, Removal and Disassembly. (Also 16-mm sound.) (This picture is a part of the series covering the servicing of the P-40 airplane, and shows the details of removal and disassembly of the Curtiss electric propeller.)	1	10
1-312-----	1942	Airplane Structure—Part VII, Static Testing. (Also 16-mm sound.) (This film deals with various methods of testing the static elements of aircraft. It covers such matters as the location of the elastic axis of the wing, torsional testing of the wing, and negative acceleration. The picture is not designed for the average Air Corps enlisted men.)	2	12
*1-316----	1941	1820 Wright Engines, Preparation for Tear-down. (Also 16-mm sound.) (The title of this subject is self-explanatory.)	1	8
*1-317----	1941	1820 Wright Engines, Preliminary Disassembly. (Also 16-mm sound.) (The title of this subject is self-explanatory.)	2	14
1-328-----	1942	Aerial Navigation—Airways Flying. (Also 16-mm sound.) (This picture covers the function of the traffic control area, airway priorities, beacons and markers, rules for contact flight, and traffic regulations for instrument flight.)	4	38
2-14-----	1934	A Cavalry Command Crossing an Unfordable Stream. (Also 16-mm sound.) (Training a cavalry command for crossing unfordable stream. Methods of crossing animals and men. Ferrying of wagons and loads. Selection of crossing points.)	2	16

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 2-17-----	1935	The Cavalry Rifle Platoon from Mounted to Dismounted Action. (Also 16-mm sound.) (Methods of securing led horses, mobile and im- mobile. Demonstration of the employment of a platoon from mounted to dismounted action.)	1	12
2-18-----	1935	The Tactical Employment of Caliber .50 Machine Gun by Cavalry. (Also 16-mm sound.) (Characteristics of the caliber .50 machine gun and its tactical employment.)	1	8
*2-37-----	1939	Roles, Capabilities, and Limitations of Combat Vehicles of the Mechanized Cavalry. (Also 16-mm sound.) (The operation of the following vehicles of the mechanized cavalry are described and demon- strated: motorcycles, scout cars, armored cars, combat cars, half-track personnel carriers, and mortar carriers. There are also demonstrated the methods of refueling and maintenance of vehicles on the march and in bivouac.)	5	45
2-252-----	1941	Light Machine-Gun Platoon, Cavalry Rifle Troop—Or- ganization and Equipment of the Platoon and Squad Drill. (Also 16-mm sound.) (Demonstrates with motion pictures and animated	1	10

2-253	1941	diagrams the organization of the platoon, its equipment, and the basis of squad drill.) Light Machine-Gun Platoon, Cavalry Rifle Troop— Platoon Drill. (Also 16-mm sound.) (Companion piece of the above. This film demonstrates platoon drill by use of motion pictures and animated diagrams.)	2	20
*2-254	1942	Light Machine-Gun Platoon, Cavalry Rifle Troop— Employment. (Also 16-mm sound.) (A cavalry rifle troop operating alone contacts enemy forces in desert terrain. The light machine-gun platoon is then employed in covering enemy positions while two rifle platoons execute a flanking movement.)	2	15
*3-10	1933	Tactical Employment of Chemical Troops in an Attack. (Also 16-mm sound.) (A chemical company in support of a division in an attack; use of smoke in screening operations of the infantry.)	2	20
*3-216	1941	Adjustment of the Service Gas Mask. (Also 16-mm sound.) (This training film shows in detail the correct manner of adjustment and the use of the service gas mask.)	2	17
*3-217	1941	Inspection of the Service Gas Mask. (Also 16-mm sound.) (This training film covers the personal inspection, care, minor repairs, and disinfection of the service gas mask.)	1	9
*3-218	1941	Adjustment of the Training Gas Mask. (Also 16-mm sound.) (This training film shows in detail the correct manner of adjustment and the use of the training gas mask.)	2	17

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *3-219-----	1941	Inspection of the Training Gas Mask. (Also 16-mm sound.) (This training film covers the personal inspection, care, minor repairs, and disinfection of the training gas mask.)	1	8
4-9-----	1932	The Tactical Employment of a Battery of 155-mm Guns, Tractor-drawn (CA). (Also 16-mm sound.) (The gun battery, in route column, going into position, and firing at a sea target. The functions of position finding and fire-control systems.)	2	16
4-101-----	1939	Employment and Operation of Submarine Mine Battery. (Also 16-mm sound.) (Shows the organization and equipment of the submarine mine battery. Loading of the mine planter is demonstrated; mines are loaded; and procedure involved in laying and firing submarine mines is explained and described.)	4	38
4-156-----	1941	Railway Artillery—Emplacement and Firing of the 12-inch Mortar and 8-inch Gun. (Also 16-mm sound.) (This picture deals with the details of operation connected with loading and firing the 12-inch mortar and the 8-inch gun used by the railway artillery.)	2	19

4-185-----	1942	The Antiaircraft 37-mm Gun Battery—Organization, Movement on the Road, Movement into Position. (Also 16-mm sound.) (This film clearly shows the organization and transportation equipment of the battery. Each man's duties are clearly defined and the order of vehicular progress is shown. The Battery commander selects the battery position and leads the guns to their sites with their integral equipment and teams.)	2	14
4-186-----	1942	The Antiaircraft 37-mm Gun Battery—Emplacement of the Gun and Preparation of the Gun for Firing. (Also 16-mm sound.) (The individual duties of each man are shown in sequence, emphasizing his place first and his particular job in the team. Next, the same actions are repeated simultaneously, demonstrating the coordinated precision of a well-trained and integrated team.)	3	22
4-187-----	1942	The Antiaircraft 37-mm Gun Battery—Fire Control Equipment, Firing. (Also 16-mm sound.) (This picture covers four phases of the servicing of the piece, pursuing in each the technique of demonstrating each man's job, by-the-numbers, before showing the team in simultaneous operation.)	4	21
4-188-----	1941	The 37-mm Antiaircraft Gun Battery—Care of Gun After Firing. (Also 16-mm sound.) (This film shows the proper methods of cleaning the piece, checking adjustments, and lubrication after firing.)	3	29

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 4-189-----	1941	The 37-mm Antiaircraft Gun Battery—Movement out of Position—March Order. (Also 16-mm sound.) (This film is concerned with dismounting the gun and placing it in condition for travel, followed by the march order.)	2	20
4-190-----	1942	The Antiaircraft Machine-Gun Battery—Mission, Care and Adjustment of the Gun and Mount, Handling of Ammunition. (Also 16-mm sound.) (This film demonstrates the mission of the caliber .50 antiaircraft machine-gun battery, the care and adjustment of the gun and mount, the procedure of handling the ammunition, the organization of the battery, and the duties of each man. The assembly and disassembly of the gun is clearly shown in detail as well as the recoil and cooling systems.)	4	33
4-191-----	1942	The Antiaircraft Machine-Gun Battery—Preparation for Movement, Action on the Road, Emplacement of Gun, Selection of Position. (Also 16-mm sound.) (This picture demonstrates the battery commander's orders, reconnaissance, and the order of march. Next, in some detail, are shown the duties of each	3	28

4-192-----	1941	man during the march; and the engagement of the target during the march, followed by going into bivouac, the selection of position and emplacement of the gun.)	2	15
		The Antiaircraft Machine-Gun Battery—Fire Control Equipment, Firing. (Also 16-mm sound.) (This film illustrates the theory and technique of the fire control and the firing of the antiaircraft machine-gun battery.)		
4-193-----	1941	The Antiaircraft Machine Gun Battery—Care and Maintenance of Gun and Mount. (Also 16-mm sound.) (Demonstrates the operating of the antiaircraft machine-gun battery team in the care, lubrication, cleaning, and maintenance of the cal. .50 machine gun.)	2	21
4-194-----	1941	The Antiaircraft Machine-Gun Battery—Movement Out of Position; March Orders. (Also 16-mm sound.) (Shows the striking of the machine gun-emplacement and the battery's movement out of position.)	2	12
4-195-----	1941	The Antiaircraft Searchlight Battery—Preparation for Action; Emplacement of Equipment. (Also 16-mm sound.) (Shows the equipment of the battery, its emplacement, and preparation for action.)	3	28
4-196-----	1941	The Antiaircraft Searchlight Battery—Preparation for Use: Orienting and Synchronizing. (Also 16-mm sound.) (Orientation and synchronization of the searchlight battery as it is prepared for use.)	2	15

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 4-197-----	1941	The Antiaircraft Searchlight Battery--Preparation for Action; Drill of the Searchlight Section. (Also 16-mm sound.) (Shows in detail the drill and coordination of searchlight battery team.)	2	16
4-198-----	1941	The Antiaircraft Searchlight Battery--Movement Out of Position; March Order. (Also 16-mm sound.) (Final part of series shows displacement of equipment, movement, and march order.)	2	17
4-240-----	1942	Three-Inch Antiaircraft Artillery Gun Battery, Section 1--Movement Into Position, Emplacement of 3-Inch Gun M3 on M2A2 Mount. (Also 16-mm sound.) (This picture shows the organization of the gun battery and the personnel of the gun section. Next is shown the equipment, capabilities, and characteristics of the prime mover, the gun mount cradle, traversing and elevating equipment, and the various subassemblies. Next covered is the ammunition and the emplacement of the gun on the M2A2 mount.)	2	19

4-241-----	1942	Three-Inch Antiaircraft Artillery Gun Battery, Section 2—Preparation of M3 Gun for Firing. (Also 16-mm sound.) (This section is devoted to the preparation of the M3 gun for firing, and shows the detailed movement of each man in the gun battery and the team work necessary in the preparation of the gun for firing.)	3	30
4-242-----	1942	Three-Inch Antiaircraft Artillery Gun Battery, Section 3—Fire Control Equipment. (Also 16-mm sound.) (This section shows the detailed operation of the battery fire control equipment.)	4	38
4-243-----	1942	Three-Inch Antiaircraft Artillery Gun Battery, Section 4, Drill of the Gun Section—Service of the Piece. (Also 16-mm sound.) (This section demonstrates the drill of the gun section in height finding and range, and servicing of the piece.)	2	18
4-244-----	1942	Three-Inch Antiaircraft Artillery Gun Battery, Section 5, Movement out of Position—March Order. (Also 16-mm sound.) (The last part of this series demonstrates the displacement of the 3-inch gun, preparation for travel, movement out of position, and the march order.)	4	35
4-269-----	1941	The 37-mm Antiaircraft Gun—M1A2 on M3 Mount—Emplacement of Gun and March Order. (Also 16-mm sound.) (This film concerns the mechanics of the emplacement of the gun, march order, and demonstrates same techniques on soft or boggy ground.)	2	13

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 4-278-----	1942	The Antiaircraft Automatic Weapons Trainer. (Also 16-mm sound.) (This film shows the detailed construction of the automatic weapons trainer and the drill of the crew, at the same time explaining the general principles of the theory and the operation of the equipment while engaging aircraft targets.)	2	16
†4-320-----	1942	90-mm Antiaircraft Gun—Emplacement and March Order. (Also 16-mm sound.)	-----	-----
*5-12-----	1935	Map Reading. (Also 16-mm sound.)----- (May be run in two sections: Reels 1, 2, and 3—types of maps, scales, conventional signs, distance, direction, latitude and longitude, rectangular and polar coordinates; reels 4 and 5—elevation, contours, slopes, profiles, and visibility.)	5	43
5-118-----	1940	River Crossing—Assault Boats. (Also 16-mm sound.)----- (This film shows the methods of handling assault boats, including their movement to the river bank, launching, and operation. Their use in ferrying troops across streams is demonstrated.)	1	9

5-119.....	1940	River Crossing, Foot Bridge Uses. (Also 16-mm sound.)-- (The construction and uses of standard foot bridges are explained and demonstrated.)	1	9
5-120.....	1940	River Crossing, Foot Bridge Construction. (Also 16- mm sound.) (Foot bridge construction is explained and dem- onstrated in detail.)	1	10
5-121.....	1940	River Crossing, Light Ponton Bridge Uses. (Also 16- mm sound.) (The uses of light ponton bridges are explained and demonstrated.)	1	9
5-122.....	1940	River Crossing, Light Ponton Bridge Equipment. (Also 16-mm sound.) (Handling and the employment of light ponton bridge equipment is explained and demonstrated.)	1	11
5-123.....	1940	River Crossing, Light Ponton Bridge Construction. (Also 16-mm sound.) (Construction of light ponton bridge is described and explained in detail.)	3	30
*5-145.....	1941	Armored Combat Vehicles. (Also 16-mm sound.)----- (The first of a series of five pictures on methods of antimechanized defense. This picture deals with various types of combat vehicles, domestic and common, showing their capabilities and limita- tions.)	2	18
*5-146.....	1941	Means of Antimechanized Defense. (Also 16-mm sound.) (An orientation picture showing the use of various defensive weapons employed against combat vehicles.)	1	9

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *5-147-----	1941	The Antitank Mine M-1. (Also 16-mm sound.)----- (This picture shows the construction, assembly, operation, placement, and concealment of the antitank mine.)	1	9
*5-148-----	1941	Antitank Obstacles. (Also 16-mm sound.)----- (This film shows and discusses a number of natural obstacles which delay or hinder the advance of tanks, such as: soft ground, steep banks, trees, stumps, etc.)	1	8
*5-149 ----	1941	Road Blocks. (Also 16-mm sound.)----- (This film covers a number of measures which may be taken to block roads against the advance of tanks, by such means as destruction of bridges, road craters, barricades of logs, trees, wire, etc.)	1	9
*5-199-----	1941	Pioneer Equipment—Wirecutting Tools. (Also 16-mm sound.) (This film illustrates various types of wirecutting tools used by pioneer troops and shows the purpose for and manner in which they are used.)	1	8

*5-200-----	1941	Pioneer Equipment—Woodcutting Tools. (Also 16-mm sound.) (This film illustrates various types of woodcutting tools used by pioneer troops and shows the purpose for and manner in which they are used.)	1	8
*5-201-----	1941	Pioneer Equipment—Manila Rope. (Also 16-mm sound.) (This picture illustrates the use of various sizes of manila rope with which pioneer troops are supplied.)	1	8
*5-202-----	1941	Pioneer Equipment—Hitches. (Also 16-mm sound.) (This picture illustrates the manner in which various "hitches" are made, and the various uses to which each may be put.)	1	10
*5-203-----	1941	Pioneer Equipment—Knots and Bends. (Also 16-mm sound.) (This picture illustrates the manner in which various "knots and bends" are made and the various uses to which each may be put.)	2	15
5-220-----	1941	Barbed Wire Materials. (Also 16-mm sound.) (This picture shows the various types of barbed wire and other equipment used by the Army in connection with the construction of barbed wire obstacles.)	1	8
5-224-----	1941	Portable Barbed Wire Obstacles. (Also 16-mm sound.) (This picture shows the various types of portable barbed wire obstacles and illustrates in detail the manner in which these are constructed.)	1	11
†*5-237-----	1942	Portable Water Purification Unit, Model 1940. (Also 16-mm sound.)	-----	-----

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 5-263	1941	Double Apron Fence. (Also 16-mm sound.) (This film illustrates by both action and animation the construction details of the double apron fence, and shows the approved method by means of which construction is accomplished.)	1	10
†5-271	1942	Explosives and Demolitions—Part II, Nonelectric Blasting Equipment. (Also 16-mm sound.)	---	---
5-273	1942	Explosives and Demolitions—Part 4, Primacord. (Also 16-mm sound.)	2	12
5-279	1941	10-ton Ponton Boat, Model 1938. (Also 16-mm sound.) (This simple and well-organized film tells the story of PETN and how to handle and detonate it, with and without TNT cubes, under various circumstances. Of real interest to specialists.)	1	10
5-284	1942	10-ton Ponton Rafts. (Also 16-mm sound.) (A photographic description of the 10-ton ponton boat. The film shows the manner in which it is launched, handled when in the water, and removed from the water.) (This picture shows the method of construction of 10-ton ponton rafts, discussing the methods of carrying and placing the balk and chess, attaching side rails and strengthening the ponton bay.)	2	12

6-15-----	1935	Reconnaissance and Occupation of a Position by a 75-mm Battery of Artillery, Horse-drawn. (Also 16-mm sound.) (Organization of the gun battery. Reconnaissance of position and selection of observation posts. Selection and occupation of a position.)	2	18
6-19-----	1936	Sensing of Field Artillery Fire----- (Sensing interpretations, illustrative problems. Sensing of salvos and volleys. Sensing of shrapnel and smoke shell.)	2	16
*6-102-----	1939	Truck-drawn Units, Vehicles, and Accessories. (Also 16-mm sound.) (Shows vehicles of the Field Artillery and demonstrates their ability to leave roads and operate cross country. Describes vehicle maintenance sections and training of drivers to operate individually and as part of a group.)	1	10
*6-103-----	1940	Truck-drawn Units—Reconnaissance and Preparation of Routes. (Also 16-mm sound.) (Covers the preliminary reconnaissance necessary before operating over difficult terrain. Steps which must be taken to prepare routes for the movement of vehicles over them are shown.)	1	10
*6-104-----	1940	Truck-drawn Units—Difficult Terrain. (Also 16-mm sound.) (Covers the procedure to be employed when motor vehicles must be moved over terrain presenting natural obstacles, other than stream crossings. Field expedients to permit movement of motor vehicles over difficult terrain are explained and demonstrated.)	3	29

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *6-105-----	1940	Truck-drawn Units—Stream Crossings. (Also 16-mm sound.) (Field expedients to permit movement of motor vehicles across streams of various sizes are explained and demonstrated.)	2	19
*6-106-----	1940	Truck-drawn Units—Movement of disabled Vehicles. (Also 16-mm sound.) (In this film is explained and demonstrated the technique of replacing in operation vehicles which have become disabled through overturning and bogging down.)	1	9
*6-111-----	1939	Preparation of Fire—The Mil Relation. (Also 16-mm sound.) (This training film defines and describes the mil and the applicability of the mil relation to military use.)	1	11
6-112-----	1939	Preparation of Fire—Instruments. (Also 16-mm sound.) (Shows and describes the use of instruments used by the Field Artillery in the preparation of fire.)	1	8

6-124.....	1940	The 155-mm Howitzer (M1918A1, Truck-drawn). The Section: Duties at the Gun Park—Care on the March. (Also 16-mm sound.) (In this picture are shown and discussed in detail, the various duties of personnel of the 155-mm howitzer section at the gun park and on the march.)	2	15
6-125.....	1940	The 155-mm Howitzer (M1918A1, Truck-drawn). The Section: Duties at the Firing Position—Firing Duties. (Also 16-mm sound.) (This picture shows and discusses in detail the various duties of personnel of the 155-mm howitzer section in firing position.)	3	27
6-126.....	1940	The 155-mm Howitzer (M1918A1, Truck-drawn). The Section: Duties at March Order. (Also 16-mm sound.) (This picture shows and discusses in detail the various duties of personnel of the 155-mm howitzer section at march order.)	1	10
6-127.....	1940	The 75-mm Gun (Model M2A2, Truck-drawn). The Section: Duties at the Gun Park and on the March. (Also 16-mm sound.) (In this picture are shown and discussed in detail the various duties of personnel of the 75-mm gun section on the march.)	2	20
6-128.....	1941	The 75-mm Gun (Model M2A2, Truck-drawn). The Section: Duties at the Firing Position—Firing Duties. (Also 16-mm sound.) (This picture shows the detailed duties, individually and collectively, of the section equipped with the 75-mm gun (Model M2A2, truck-drawn) at the firing position preliminary to firing, and during firing.)	3	27

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 6-129-----	1941	<p>The 75-mm Gun (Model M2A2, Truck-drawn). The Section: Duties at March Order. (Also 16-mm sound.) (This picture shows the detailed duties, individually and collectively, of the personnel of the section equipped with the 75-mm gun (Model M2A2, truck-drawn) in preparing the section for the march.)</p>	1	9
6-130-----	1941	<p>The 75-mm Gun (Model 1897A-4, Truck-drawn). The Section: Duties at the Gun Park and on the March. (Also 16-mm sound.) (This picture shows the detailed duties, individually and collectively, of the personnel of the section equipped with the 75-mm gun (Model 1897A-4, truck-drawn) at the gun park and during the march.)</p>	2	14
6-131-----	1941	<p>The 75-mm Gun (Model 1897A-4, Truck-drawn). The Section: Duties at the Firing Position—Firing Duties. (Also 16-mm sound.) (This picture shows the detailed duties, individually and collectively, of the personnel of the section equipped with the 75-mm gun (Model 1897A-4,</p>	3	30

6-132-----	1941	truck-drawn) at the firing position, preliminary to firing, and during firing.) The 75-mm Gun (Model 1897A-4, Truck-drawn). The Section: Duties at March Order. (Also 16-mm sound.) (This picture shows the detailed duties, individually and collectively, of the personnel of the section equipped with the 75-mm gun (Model 1897A-4, truck-drawn) in preparing the section for the march.)	1	9
6-230-----	1941	The 240-mm Howitzer—Part I, Personnel and Equipment, and Emplacing. (Also 16-mm sound.) (This film covers the organization of the 240-mm howitzer battery. It also shows the details of the gun, the transportation, and other equipment of the battery.)	5	47
6-231-----	1941	The 240-mm Howitzer—Part II, Service of the Piece. (Also 16-mm sound.) (This film depicts the various operations, and the duties of the personnel involved, in emplacing and assembling the 240-mm howitzer for firing.)	2	18
6-232-----	1941	The 240-mm Howitzer—Part III, Displacing (This film depicts the various operations and duties of the personnel involved in displacement and preparing for march order of the 240-mm howitzer.)	3	32
*7-13-----	1935	Signal Communication within the Infantry Regiment. (Also 16-mm sound.) (The operation of the means of signal communication available within the infantry regiment. The organization of communication facilities. Regimental command posts. Communication problems incident to the moving of command posts.)	5	45

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *7-20-----	1935	River Crossing by an Infantry Battalion. (Also 16-mm sound.) (Philippine infantry demonstrates use of organization equipment for preparing floats. The crossing of individual and organization equipment. The use of safety buoys. Organization for crossing. Demonstration of crossing by unit.)	1	8
7-24-----	1936	Musketry and Combat Practice Firing. (Also 16-mm sound.) (Musketry training. Range estimation. Target designation. Landscape target firing. The cone of dispersion. Assault fire. Individual action. Squad problems.)	6	42
*7-25-----	1938	Bayonet Training. (Also 16-mm sound.)----- (Execution of thrusts, butt strokes and the parries. Description of the bayonet course being run. Movements demonstrating normal speed and slow motion.)	9	76
7-28-----	1937	Employment of Machine Guns in the Attack. (Also 16-mm sound.) (Illustrative tactical situation. Instructions by company commander, platoon, and section leaders.	3	31

7-29-----	1938	Movement of machine guns into action and their employment to assist in the attack.) Employment of Machine Guns in the Defense. (Also 16-mm sound.) (Illustrative tactical situation. Orders by company commander and platoon leader. Action of the section leader. Location and installation of guns. Fire missions. Preparation of fields of fire and obstacles. The firing and operation of machine guns in defense.)	3	26
*7-35-----	1938	Infantry Hasty Field Fortifications. (Also 16-mm sound.) (Illustrates the principles involved in the location and construction of skirmishers' trenches and fox holes, barbed wire entanglements, caliber .30 machine-gun emplacements, caliber .50 machine-gun emplacements; and miscellaneous infantry installations including those for the infantry mortar, command posts, aid stations, and concealment of vehicles.)	6	50
7-108-----	1940	Technique of Small Arms Fire against Attack Aviation. (Also 16-mm-sound.) (Vulnerable parts of airplanes are shown. Technique of firing from the ground at airplane targets is explained and demonstrated.)	2	17
7-109-----	1940	Defense of Infantry Columns against Attack Aviation. (Also 16-mm sound.) (The technique of antiaircraft defense for columns on the road; the uses of infantry organization weapons are explained and demonstrated.)	2	18

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 7-110	1940	Defense of Infantry Areas against Attack Aviation. (Also 16-mm sound.) (This training film shows methods of defense of bivouac areas against low-flying aviation.)	1	7
7-143	1941	Infantry Drill—The Squad. (Also 16-mm sound.)	1	10
7-144	1941	(Close order drill, school of the squad.) Infantry Drill—The Platoon. (Also 16-mm sound.)	2	14
7-151	1941	(Close order drill, school of the platoon.) Parachute Training in the German Army. (Also 16-mm sound.) (A German film showing methods of training and operation of German parachute troops. An English Translation of the accompanying commentator lecture has been added.)	2	15
*7-233	1942	Determining Direction in the Field. (Also 16-mm sound.) (This picture shows the individual soldier how to orient himself and determine direction in the field by use of land marks, a prismatic compass, maps, and sketches. The film also outlines field expedients if the soldier lacks a compass or more conventional means of determining direction.)	1	9

*7-234-----	1941	Use of Natural Cover and, Concealment. (Also 16-mm sound.) (Methods of individual movement in the presence of enemy observation are demonstrated and explained.)	2	18
*7-248-----	1941	Instruction of the Soldier, Dismounted, Without Arms—Position and Facings. (Also 16-mm sound.) (This film covers elementary instruction of the soldier. Not only does it depict the manner in which the soldier should perform the various movements involved, but it is an excellent example of the manner in which this basic instruction should be imparted.)	2	22
*7-249-----	1941	Instruction of the Soldier, Dismounted, Without Arms—Steps and Marchings. (Also 16-mm sound.) (This film covers elementary instruction of the soldier. Not only does it depict the manner in which the soldier should perform the various movements involved, but it is an excellent example of the manner in which this basic instruction should be imparted.)	2	22
7-250-----	1941	The 60-mm Mortar—Mechanical Training. (Also 16-mm sound.) (This film explains the mechanical construction, assembly, adjustment, and general principles of employment of the 60-mm mortar. Sighting and firing are not covered in this film.)	2	20

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *7-251-----	1941	The 60-mm and 81-mm Sights and Sight Setting. (Also 16-mm sound.) (This film demonstrates use of the sights for both 60-mm and 81-mm mortars and the actual firing of a 60-mm mortar on the range.)	3	28
7-275-----	1942	Operations of a Reconnaissance Patrol at Night. (Also 16-mm sound.) (Beginning with preliminary daylight training and reconnaissance, the 6-man patrol prepares for the realistic night patrol in enemy territory. Each step is clearly and succinctly stated from such details as how to walk silently under varying conditions to the stealthy destruction of enemy mines under a guarded bridge, the overpowering of an enemy sentry, and the eliciting of vital information by observation.)	4	39
7-280-----	1942	The Reconnaissance Scout. (Also 16-mm sound.) (The duties of the individual scout are shown in detail, demonstrating the technique of cross-country scouting.)	1	10

*7-295-----	1941	Military Training. (Also 16-mm sound.) (This film is based on the methods of instruction prescribed in FM 21-5, BFM, Military Training. It is designed to provide a visual aid to instructors, as a guide in their organization of groups or classes and the effective presentation of instructional matter.)	6	58
7-318-----	1942	Platoon Scouts. (Also 16-mm sound.) (Essentially a demonstration of the cautious advance by bounds of a platoon and its point. This film shows the rudiments of such an advance in a general way from the beginning of the patrol to the contact with the hostile forces.)	1	11
*8-26-----	1937	The Medical Regiment (Medical Service with an Infantry Division). (Also 16-mm sound.) (The division medical service in battle, operations of ambulance battalion, hospital battalion, collecting battalion, selection of a location for installations. Method of handling casualties, treatment of wounded. The veterinary collecting station. Establishment of a hospital station.)	6	61
*8-33-----	1938	First Aid. (Also 16-mm sound.) (Methods of first aid involving aid expedients available under service conditions. The use of the first-aid packet, methods of controlling hemorrhage and protecting wounds. The treatment of fractures. Methods of moving casualties.)	4	33
*8-150-----	1941	First Aid—Part IV. Injuries and Accidents. (Also 16-mm sound.) (This picture shows the treatment of accidents and injuries occurring in everyday military life.)	3	26

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF #8-154	1941	Sex Hygiene. (Also 16-mm sound.) (This film deals with the subject of venereal diseases including their cause, effects, and prevention.)	3	26
#8-155	1941	Personal Hygiene. (Also 16-mm sound.) (This film deals with basic principles of personal cleanliness, hygiene, and sanitation.)	4	36
9-30	1937	Elementary Principles of the Recoil Mechanism. (Also 16-mm sound.) (Hydraulic type recoil brakes are explained. The operation of the elements of recoil mechanism is demonstrated by means of animation. Description of the pneumatic type counterrecoil system, and the operation illustrated.)	2	13
9-31	1937	Recoil Mechanism French 75-mm Gun, Model 1897. (Also 16-mm sound.) (The principles of the recoil mechanism are shown by means of animated cut-outs, and all elements of the recoil mechanism are explained and their operation demonstrated.)	1	11

9-113-----	1940	Machining the Shell for 3-inch Antiaircraft Gun. (Also 16-mm sound.) (Shows sequence of machining and other incidentals of operations in manufacturing the 3-inch antiaircraft shell.)	2	21
9-114-----	1940	Loading, Assembling and Packing Ammunition for 3-inch aircraft Gun. (Also 16-mm sound.) (Shows the steps involved in loading the shell and case of the 3-inch antiaircraft round.)	2	20
*9-169-----	1941	The Electrical System of the Diesel Tractor. (Also 16-mm sound.) (A commercial film which has been adapted for use as a War Department training film. The title is self-explanatory.)	1	9
*9-170-----	1941	The Fuel System of the Diesel Tractor. (Also 16-mm sound.) (A commercial film which has been adapted for use as a War Department training film. The title is self-explanatory.)	1	8
*9-171-----	1941	Engine of the Diesel Tractor. (Also 16-mm sound.) (A commercial film which has been adapted for use as a War Department training film. The title is self-explanatory.)	2	20
*9-172-----	1941	Power Train of the Diesel Tractor. (Also 16-mm sound.) (A commercial film which has been adapted for use as a War Department training film. The title is self-explanatory.)	3	32

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *9-173-----	1941	The Track and Suspension System of the Diesel tractor. (Also 16-mm sound.) (A commercial film which has been adapted for use as a War Department training film. The title is self-explanatory.)	2	19
10-158-----	1941	Diesel Engines—Principles, Operation, and Applications. (Also 16-mm sound.) (This picture deals with the fundamental principles of Diesel engine construction. It shows the details of operation and its various types and uses.)	2	16
10-165-----	1941	Construction and Use of Oxyacetylene Welding Equipment. (Also 16-mm sound.) (The title is self-explanatory.)	1	16
10-166-----	1941	Gasoline Motors. (Also 16-mm sound.) (This film deals with the fundamental principles of operation of the gasoline engine and shows its development from the simplest form to the more complicated multi-cylinder automobile engine.)	2	17
*10-167-----	1941	Hydraulic Brakes. (Also 16-mm sound.) (In this picture the elementary principles of hydraulics are discussed and the application of these principles to automobile brakes is shown.)	1	8

10-176	1941	Automobile Body Repairing. (16-mm ONLY.) For limited distribution to Q. M. C. only. For first and second echelon maintenance.	3 (1,200 ft.)	30
*10-384	1941	The Dodge 4 x 4 Truck, Drivers Operating instructions. (Also 16-mm sound.) (This film covers basic and special operating instructions for the driver of the Dodge 4 x 4.)	2	19
*10-385	1941	The Dodge 4 x 4 Truck, Systematic Greasing and Lubrication. (Also 16-mm sound.) (Covers the periodic greasing and lubrication performed in the 1st and 2nd echelons of maintenance.)	2	22
11-157	1941	Military Courtesy and Customs of the Service. (Also 16-mm sound.) (The title of this basic military training subject is self-explanatory.)	3	26
11-168	1941	Basic Principles of Skiing. (Also 16-mm sound.) (This film is for the instruction of ski troops, and covers skiing equipment and basic methods of walking, climbing, turns, and other basic principles which a soldier should learn when he begins to ski.)	4	38
*11-177	1941	Basic Signal Communication—Field Wire Splices. (Also 16-mm sound.) (This picture shows various types of field wire splices and methods of making them.)	2	21
11-178	1941	Basic Signal Communication, Field Wire Ties. (Also 16-mm sound.) (This film covers the various types of field wire ties, showing the conditions under which they are used, and the manner in which they are made.)	1	9

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *11-184 --	1941	Conduct of Physical Training. (Also 16-mm sound.)----- (Demonstrates calisthenics and other methods of physical training both for instructor and soldier.)	3	30
*11-205 . . .	1942	Safeguarding Military Information—Cryptographic Security. (Also 16-mm sound.) (The film demonstrates when and how to employ cryptography, the type of code to use, how to write the message, paraphrase it and the preliminaries of encoding and transmission. Specialists and officer personnel comprise its sole effective audience.)	2	21
11-225 ----	1941	Interrogation of Prisoners. (Also 16-mm sound.)----- (This film was produced by the British War Office. It has been partially re-edited by the United States Signal Corps. It depicts the activities of a number of British captives and shows how careful remarks and replies to questions may be a fruitful source of information to the enemy.)	4	37
*11-235 ----	1941	Articles of War. (Also 16-mm sound.)----- (Explains composition of military courts and their history, discusses the more important punitive articles, and shows the results of failure to conform to military law.)	5	47

11-257-----	1941	Care and Maintenance of Tapered Roller Bearings. (Also 16-mm sound.) (This is a commercial film prepared on the Timken service manual, the title of which is self-explanatory.)	3	31
11-262-----	1941	Point Control of Traffic. (Also 16-mm sound.)----- (This film is based upon the various techniques to be used by the military police organization and the military police individually in the correct control of traffic.)	2	26
*11-274-----	1941	Pistol Bullseyes. (16-mm ONLY.)----- (This training film deals with the subject of pistol marksmanship, covering all phases from preliminary instruction to record firing.)	3	20
11-296-----	1941	The Technique and Mechanics of Arrest and Search of Persons. (16-mm ONLY.) (A training film produced by the Federal Bureau of Investigation, dealing with the details of the subject matter mentioned in the title. At the request of the Federal Bureau of Investigation, this film, when shown, will be shown in its entirety.)	3	69
*11-324-----	1941	Safeguarding Military Information. (Also 16-mm sound.) (Designed for release to both military and civilian personnel to impress upon all the absolute necessity of keeping eyes open and mouths shut.)	2	12

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF *11-325-----	1942	<p>Safeguarding and Proper Handling of Classified Material. (Also 16-mm sound.) (This film discusses the necessity and methods of safeguarding military materials and information, and the use of the various classifications, such as restricted, confidential, secret, and registered, to attain that end. The relative meaning of each classification and the handling required by it on all types of material is covered thoroughly, including the routing of the documents or materials within an office and the methods of transport permissible under various circumstances.)</p>	2	18
*11-382-----	1941	<p>Know Your Enemy. (Also 16-mm sound.) (This picture is concerned with the identification of tanks, through the use of motion pictures, still photography, and diagrams.)</p>	4	44
*11-383-----	1941	<p>Friend or Foe. (Also 16-mm sound.) (This picture is concerned with the identification of tanks, through the use of motion pictures, still photography, and diagrams.)</p>	6	55

†11-551	1942	The Motor Vehicle Driver, Responsibility, Nomenclature, Fire Regulations, Accident Prevention.	2	12
†11-552	1942	The Motor Vehicle Driver, Hand Signals, Road Rules and Regulations.		
†11-553	1942	The Motor Vehicle Driver, Elementary Driving Instructions and Inspections.		
†11-554	1942	The Motor Vehicle Driver, Difficult Driving.		
†11-555	1942	The Motor Vehicle Driver, Traction Aids and the Winch.		
†11-556	1942	The Motor Vehicle Driver, Map Reading.		
†11-557	1942	The Motor Vehicle Driver, Marching and Night Driving.		
†11-558	1942	The Motor Vehicle Driver, First Echelon Maintenance.		
†11-559	1942	The Motor Vehicle Driver, Loading, Trouble Shooting, Reports and Vehicle Abuse.		
17-264	1941	Armored Force Drill, The Light Tank Crew. (Also 16-mm sound.)	2	12
*25-152	1941	(This picture shows the composition of the light tank crew, duties of each member of the crew during drill, mounted, dismounted, and in action.) Ignition and the Spark Plug. (Also 16-mm sound.)	1	12
25-333	1942	(This picture deals with the fundamentals of construction, operation, and maintenance of spark plugs and ignition systems used in motor vehicles.) The Engine Lathe, Rough Turning Between Centers. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This picture shows the procedures followed in setting up an engine lathe for a rough turning job between centers on a piece already cut to length and centered. Safety precautions in dress and work, and the proper use of various controls on the lathe are stressed.)	2	15

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 25-334-----	1942	The Engine Lathe, Turning Work of Two Diameters. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This film discusses the sequence of operations which must be followed when turning a gear blank with a shaft, from a solid piece of round stock.)	2	14
25-335-----	1942	The Engine Lathe, Cutting a Taper with the Compound Rest and with the Taper Attachment. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This picture shows the operations used when turning a sharp taper on a bevel gear blank with the compound rest and a slight taper on a shaft with the taper attachment.)	1	11
25-336-----	1942	The Engine Lathe, Drilling, Boring, and Reaming Work Held in Chuck. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This film shows the operations to be followed when cutting a tapered hole in a solid forged steel gear blank. The operations of centering piece in a chuck, rough facing, drilling, taper-boring, and reaming are given in detail.)	1	11

25-337-----	1942	The Engine Lathe, Cutting an External National Fine Thread. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. The subject describes various shapes of threads and their uses, gives the characteristics of the national fine thread, and shows the procedures to be followed when cutting such a thread on a lathe.)	2	13
25-338-----	1942	The Milling Machine. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. An introductory subject showing the earliest parts of the standard plain milling machine.)	1	7
25-339-----	1942	The Milling Machine, Cutting Keyways. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This subject shows the setting up of a shaft on the table of the milling machine for cutting a keyway at each end, the selection of the proper cutter, the determination of the correct speed and feed, and the setting of the machine for the correct depth and length of cut.)	2	15
25-340-----	1942	The Milling Machine, Straddle and Surface Milling to Close Tolerances. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This film shows the methods and procedures followed when rough milling a solid bar of stock all over and finish milling the same piece to a given shape and size.)	3	27

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 25-341-----	1942	The Milling Machine, Straddle Milling. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This film shows the procedures followed when straddle milling a pair of connecting rods held in a fixture. The function of fixtures in production work is shown and explained.)	2	18
25-342-----	1942	The Milling Machine, Plain Indexing and Cutting a Spur Gear. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This subject shows the set-up of a milling machine, the use of a dividing head, and the cutting of an 8-pitch spur gear with 36 teeth.	3	25
25-343-----	1942	The Vertical Boring Mill, Rough Facing, Turning, and Drilling on a Vertical Turret Lathe. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This film shows the operations used in rough facing, rough turning, and drilling an aluminum casting held in the chuck jaws of a vertical turret lathe.)	3	31

25-344-----	1942	The Vertical Boring Mill, Rough Facing, and Boring and Turning a Shoulder on a Vertical Turret Lathe. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This film discusses the operations and procedures followed in tooling up a vertical turret lathe for production work requiring the independent use of the vertical and side heads.)	2	22
25-345-----	1942	The Vertical Boring Mill, Facing, Turning, Boring, Grooving, Chamfering on a Vertical Turret Lathe Using Two Heads. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This film shows the operations and procedures followed when tooling up a vertical turret lathe for operations requiring the simultaneous use of both vertical and side heads.)	3	31
25-346-----	1942	Steel Rule. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This subject discusses in detail the steel rule, shows the various forms in general use, explains the fractional scales found on them and demonstrates their correct use.)	2	14
25-347-----	1942	Micrometer. (Also 16-mm sound.) (Produced by the Office of Education, Department of Interior. This subject shows the various forms of the micrometer, explains how micrometers are read and emphasizes their correct use and care.)	2	15

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
TF 25-348----	1942	Fixed Gages. (Also 16-mm sound.) ----- (Produced by the Office of Education, Department of Interior. This subject offers a demonstration of the various types of fixed gages and emphasizes their importance in modern mass production.)	2	17
25-349----	1942	Vernier Scale. (Also 16-mm sound.) ----- (Produced by the Office of Education, Department of Interior. This subject is a detailed study, largely in animation of the principles of the Vernier scale and its application to precision measurement.)	2	19
25-350----	1942	Height Gages and Standard Indicators. (Also 16-mm sound.) ----- (Produced by the Office of Education, Department of Interior. This subject presents the fundamental principles of the Vernier height gage, together with various forms of standard indicators, and demonstrates their use.)	2	12

Silent Training Films

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
*TF 2-64-----	1928	Care of Animals. (Also 16-mm.) (Proper care, feeding, and grooming of the horse and mule. Approved methods of handling, tying on the line, and treatment after exercise, etc. Intended for recruit instruction.)	2	34
2-66-----	1928	The Soldier, Mounted, Without Arms. (Also 16-mm.) (Fundamental mounted instruction. Saddling and bridling, adjustment of the bit. Proper manner of mounting, gathering, and application of the aids. Slow motion shots of riding to the walk, trot, canter, and jumping obstacles.)	2	32
2-73-----	1929	The Cavalry Rifle Platoon—Its Weapons, Organization and Formations. (Also 16-mm.) (Demonstration of the various cavalry weapons, formations of the platoon and some of the principal drill movements.)	2	35
2-74-----	1929	The Cavalry Rifle Platoon, in Mounted Action. (Also 16-mm.) (A simple tactical problem, showing a cavalry platoon acting alone in front of a larger force. Reconnaissance, decisions, and mounted action demonstrated.)	2	28

Serial No.	Calendar year released	Subject	Number of reels	Running time (minutes)
*TF 3-2----- *4-9-----	1930 1932	Defense Against Chemical Warfare. (Also 16-mm.) The Tactical Employment of a Battery of 155-mm Guns, Tractor-drawn (CA). (16-mm, no 35-mm silent.) (The gun battery, in route column going into position, and firing at a sea target. The functions of position finding and fire-control systems.)	3 1	49 12
4-23-----	1939	The Antiaircraft Regiment—Training for Spotters. (Also 16-mm silent.) (This film deals solely with antiaircraft spotting instruction and is <i>applicable only to antiaircraft units of the coast artillery.</i>)	3	32
6-3-----	1930	Harness and Harnessing (Horse-drawn Artillery). (Also 16-mm.) (Nomenclature and function of the principal parts of artillery harness, actual harnessing, and the adjustment of harness.)	3	52
6-4-----	1930	Driving and Draft (Horse-drawn Artillery). (Also 16-mm.) (The pair and team in the fundamental movements, and common errors of driving. Draft over difficult terrain, up and down steep grades, over obstacles, etc.)	4	48

9-57-----	1918	155-mm Recoil System (French, Schneider, Howitzer)----- (Nomenclature and function of the brake and counterrecoil mechanism. Animated drawings.)	1	19
9-58-----	1918	Modern Percussion Fuzes----- (Propelling force, force of impact, basic design, and type of fuzes. Animated drawings.)	1	17
25-5-----	1931	Carbon Monoxide—The Unseen Danger----- (A Bureau of Mines picture. Everyday danger in the home and garage from carbon monoxide gas, remedial treatment and preventive measures.)	1	17
*25-76-----	1930	The Story of Automotive Lubrication----- (A Bureau of Mines picture. Simple instructions in lubrication. Demonstrations of the purpose of lubrication and results of common omissions.)	1	16

d. Film Strips.—(1) Where matter contained in the film strip is not self-explanatory, brief notes accompany the strip (see par. 29, AR 105-260). Organizations may requisition film strips direct from the Chief Signal Officer. There is no property accountability for film strips.

(2) See b(3) and (4) above.

Air Corps.

FS 1-1. Summary of Flight Rules.

Illustrates various situations that arise when flying the airways and proper procedure to comply with Department of Commerce Regulations. In general, covers all the rules as prescribed in Part I, Manual No. 60, Civil Air Regulations, as approved by the Civil Aeronautics Board.—No notes.

1-2. Airport Traffic Control.

Illustrates various situations that arise when flying the airways and proper procedure to comply with Department of Commerce Regulations. In general, covers all the rules as prescribed in Part I, Manual No. 60, Civil Air Regulations, as approved by the Civil Aeronautics Board.—No notes.

1-3. Airway Traffic Control.

Illustrates various situations that arise when flying the airways and proper procedure to comply with Department of Commerce Regulations. In general, covers all the rules as prescribed in Part I, Manual No. 60, Civil Air Regulations, as approved by the Civil Aeronautics Board.—No notes.

*1-4. Machine Tools, Part I, The Lathe.

Covers nomenclature, practical use, and operation.—No notes.

*1-5. Machine Tools, Part II, The Milling Machine.

Covers nomenclature, practical use, and operation.—No notes.

*1-6. Machine Tools, Part III, Planers.

Covers nomenclature, practical use, and operation.—No notes.

*1-7. Machine Tools, Part IV, The Shaper.

Covers nomenclature, practical use, and operation.—No notes.

FS 1-8. Aerodynamics.

This film strip treats of the motion of air and the force it exerts upon solids moving through the air. It demonstrates how turbulence and skin friction oppose useful dynamic reaction.—No notes.

1-9. Aircraft Engine Repairs.—Classification of Engine Types.

In this strip the engines are classified as to type, in line, V type, double V type, the X type, opposed or flat type, the radial type and cubic inch displacement. The engine units such as the cylinders, pistons, crankshafts, etc., are described. Some suggestions as to the factory methods of numbering cylinders are shown. (Reference, pars. 9-17, TM 1-405.)—No notes.

1-10. Introduction to Airplane Structures.

In this strip the Air Corps designation of airplanes is made. Types, models, and series are indicated. The principal structural units are illustrated. Emphasis is placed upon nomenclature of airplane structures. Attention is given to markings and insignia. (Reference, pars. 1-4, TM 1-410.)—No notes.

1-12. Using an Aircraft Machine Gun.

This film strip will show the nomenclature and operation of the cal. .30 and cal. .50 aircraft machine gun, and will picture the synchronization of these guns with the propeller. Scenes will show the P35, P38, P39, and P43 equipped with the armament. Armament installations and correct methods of firing from different positions will be included.—No notes.

***1-14. Browning Aircraft Machine Gun, Cal. .30, M2, Functioning of Parts During Recoil and Counterrecoil.**

This film strip will show the operation of the extractor assembly during recoil and counter-

recoil; the functioning of the breech lock, firing mechanism, firing pin, belt feeding mechanism, face of the bolt, and operation of the front barrel bearing assembly.—No notes.

*FS 1-15. Principles of Internal Combustion Engines.

The operation of the 4-cycle aircraft engine is shown by photographs of cutaway sections and diagrams. The basic principles are illustrated by common analogy.—No notes.

1-16. Structural Units of the Airplane.

In this strip, illustrations dealing with the fuselage, the engine mount, the wings, the stabilizer, cowling, and fairing are shown. The internal construction of the various structural units are illustrated with cutaway section views. Where possible, types of construction are shown.—No notes.

1-17. Aircraft Storage Batteries.

This strip illustrates the types of batteries used on the airplane and their operating principles. The battery is carefully described as to container, plates, separators, electrotype, vent system, and terminals. Charging methods are also illustrated. Methods of testing batteries in the field are described.—No notes.

1-18. Synchronization of Aircraft—Part I—Principles of Synchronization.

This film strip describes methods in synchronizing aircraft machine guns on airplanes. It shows a gun synchronizer, trigger motor, tube and wire assembly which connects the two, and the control unit which enables the pilot to fire at will. The relationship of the four units is pictured and the principles are illustrated.—No notes.

1-20. Enlarging Aerial Negatives.

This shows how enlarging, reducing, and restitution of aerial negatives are accomplished with the Air Corps project printer, Type B-9.—No notes.

Cavalry.

FS 2-1. Care of Animals.

Subject matter deals with elementary hipology, feeding, grooming, features in preservation of horseflesh during service in the field, procedure in care after long periods of strenuous effort (marches, etc.), animal records, and details in connection with the diagnosis and treatment of ordinary ailments.—Notes.

2-2. Army of the United States.

Command-staff, administrative establishment from commander in chief to combat division.—Notes.

2-3. Cavalry Organizations, Cavalry Regiment, Horse.

Organization of the cavalry regiment, horse, diagrammed down to and including the rifle and light machine-gun squads. Basis WD, T/O 2-11, 2-15, 2-17, and 2-18, dated November 1, 1940.—No notes.

Chemical Warfare Service.

*3-1. Defense Against Chemical Attack—Chemical Agents and First Aid.

Characteristics of chemical agents, how to recognize the various agents, and first-aid treatment of gas casualties.—Notes.

*3-2. Effects of Weather, Terrain, Weapons, and Tactics.

General effect of weather and terrain on the employment of chemical agents; characteristics of chemical weapons and ammunition; basic principles covering the tactical employment of chemical agents.—Notes.

*3-3. Protection and Protective Equipment.

Individual and collective protection devices including masks, canisters, protective clothing, decontamination materials and equipment, protective shelters, etc.—Notes.

*3-4. Nomenclature and Air Flow System of the Standard Service Gas Mask.

Detailed nomenclature of the gas mask and passage of air through the mask.—Notes.

***FS 3-5. Nomenclature and Air Flow System of the Standard Training Gas Mask.**

The detailed nomenclature of the standard training gas mask and the passage of air through the mask.—Notes.

3-6. Nomenclature and Parts of Miscellaneous Gas Masks.

Covers the nomenclature of miscellaneous military masks and respirators.—Notes.

***3-7. Principles of Gasproofing for Shelters.**

Covers the two general types of gasproof shelters (ventilated and unventilated) with notes on the improvisation of them.—Notes.

***3-8. Nomenclature and Air Flow System, The Horse Gas Mask, M4 and M5.**

Comprises nomenclature for structural differences, their components, parts, their use with equipment, the air flow system and packing of the horse gas masks, M4 and M5.—Notes.

3-14. The Portable Chemical Cylinder.

This film strip covers the following subjects: Nomenclature and assembly and instructions for wiring for electrical firing of the portable chemical cylinder; packing and shipping; cleaning, testing, and drying; and filling and charging of the cylinder.—Notes.

Coast Artillery Corps.

***4-1. Characteristics of Naval Targets.**

This film strip, containing 77 frames, briefly surveys the types of naval vessels to be found in the principal navies of the world. Special emphasis has been placed on identification. Representative views of the various types of vessels are shown together with pertinent data as to displacement and armament. The accompanying notes contain much detailed information which cannot readily be shown on the various frames.—Notes.

***FS 4-2. Identification of Aircraft.**

This film strip, containing 61 frames, deals briefly with identification by sound, markings, structure, and silhouettes. It shows tactical formations. It presents views of the various types of aircraft now in use in the principal air forces of the world. The accompanying notes contain data that cannot readily be shown on the frames. They also contain the International Marking System for aircraft.—Notes.

4-3. Antiaircraft Artillery Guns and Accessories.

This film strip, containing 92 frames, is confined to antiaircraft artillery gun material. Fire-control equipment is not included. The film strip traces the historical development of antiaircraft artillery guns. It deals in some detail with the 3-inch, 105-mm, and 90-mm antiaircraft guns. It covers construction, nomenclature, and emplacement of the guns. The accompanying notes contain many details that cannot be shown on the frames.—Notes.

4-4. Automatic Weapons, Antiaircraft.

This film strip, containing 65 frames, deals in some detail with the construction and operation of the caliber .50 machine gun, M2, and the 37-mm AA gun, M1A1. It also covers the fire-control system used in the operation of these weapons. The accompanying notes contain many details that cannot be shown on the frames.—Notes.

4-5. Searchlight Equipment, Antiaircraft.

This film strip, containing 29 frames, deals in some detail with searchlights, sound locators, and control stations. It covers the construction and operation of the equipment. It also deals briefly with power plants and searchlight trucks. The accompanying notes contain many details that cannot be shown on the frames.—Notes.

FS 4-6. Seacoast Artillery Weapons and Matériel—
Part One.

Covers classification; construction; supports; carriages and mounts; recoil and counterrecoil mechanisms; and elevating and traversing mechanisms.—Notes.

4-7. Seacoast Artillery Weapons and Matériel—
Part Two.

Covers obturation; breechblocks; firing mechanisms; and loading mechanisms.—Notes.

4-8. Seacoast Artillery Weapons and Matériel—
Part Three.

Covers sights; guns, fixed and mobile; sub-caliber guns and tubes; and seacoast searchlights.—Notes.

Corps of Engineers.

*5-1. Map Reading.

Conventional symbols, types of maps and scales, location of points, military grid, azimuths, orientation, resection, intersection, elevation, relief, contours, military features of terrain.—Notes.

*5-2. Aerial Photograph Reading.

Comparison of vertical and oblique views, 5 and 9 lens composites, mosaics, orientation, interpretation, scales, errors and distortions, stereoscopic vision.—Notes.

*5-3. Camouflage.

Examples of World War practice and common errors. Elements of modern practice. Primarily for ROTC instruction.—Notes.

5-5. Portable Bridges.

The H-10 and H-20 steel truss bridges.—Notes.

*5-6. Obstacles.

Examples of World War practice. Modern wire obstacles and methods. Antimechanized obstacles of wire, ditches, logs, posts, rails, mines, blocks.—Notes.

***FS 5-7. Demolitions.**

Examples of World War demolitions. Modern equipment and procedure.—Notes.

5-8. Assault Boats and Footbridges.—Notes.**5-9. Ponton Bridges.**

Examples of World War bridges. Modern equipment and procedure.—Notes.

5-10. Present Day Camouflage.

Special film strip for special course to be conducted at Ft. Belvoir, Va., for intelligence officers.—Notes.

***5-12. Military Water Supply Procurement.**

World War installations. Modern equipment, mobile plant, portable unit.—No notes.

5-13. Military Water Supply—Purification.

World War installations. Modern equipment, mobile plant, portable unit.—Notes.

Field Artillery.**6-1. Field Artillery Wire Communication.**

Telephones and Switchboards.—Notes.

6-2. Field Artillery Wire Communication.

Telegraphy—simplex and phantom circuits. Wire installations and maintenance. Field artillery wire systems.—Notes.

6-3. Field Artillery Firing, Preparation of Fire.

Determination of data with instruments and from maps. Use of plotting equipment. Resitution from air photos. Schedule fires. MDC. Survey procedure.—Notes.

6-4. Field Artillery Firing—Conduct of Fire, Part I.

Axial precision and bracket, and sensing.—No notes.

6-5. Field Artillery Firing—Conduct of fire, Part II.

Lateral precision and bracket—large and small T.—No notes.

6-6. Field Artillery Firing—Conduct of Fire, Part III.

Air Observation and liaison methods.—No notes.

FS 6-7. Field Artillery, Elementary Gunnery.

Interior and exterior ballistics, dispersion, effect of projectiles, and elementary firing.—Notes.

6-8. Field Artillery Weapons.

Cannon now in the service, showing their development and modification since 1918.—Notes.

6-9. Field Artillery Prime Movers and Vehicles.

The vehicles shown include reconnaissance vehicles, trailers, wire carrying and laying vehicles, and ammunition carriers.—Notes.

Infantry.

***7-1. The United States Rifle, Cal. .30, M1, Part I, Mechanical Training, Care and Cleaning, Functioning.**

This film strip shows the characteristics of the M1 rifle, disassembling into groups, ammunition, care and cleaning, and charts and pictures the function of the piece.—No notes.

***7-2. The United States Rifle, Cal. .30, M1, Part II, Mechanical Training, Stoppages and Immediate Action, Service of the Piece.**

Shows by charts the causes and corrections of malfunctions, and by captioned pictures the steps of immediate action, loading and unloading, and safety precautions.—No notes.

***7-3. The United States Rifle, Cal. .30, M1, Part III, Marksmanship.**

Shows by pictures and charts preparatory marksmanship training, 1,000-inch range practice, and known distance range practice, including the sight picture, triangles, use of the sling, positions, sandbag rest, coach and pupil method, skirmish run, range and windage adjustments, windage clock and rule targets, score sheet, ranges and antiaircraft firing.—No notes.

***7-4. Hand Grenades.**

Shows the general types, construction of each type, the throw from standing, kneeling,

and prone positions, throwing range, courts, coach and pupil method, the score card, and safety precautions.—No notes.

- *FS 7-5. The United States Rifle, Cal. .30, Model 1903, Part I, Description, Disassembling, Assembling, Care and Cleaning.

Shows the general characteristics, disassembling, assembling, and care and cleaning of the 1903 rifle.—No notes.

- *7-6. The United States Rifle, Cal. .30, Model 1903, Part II, Functioning, Individual Safety Precautions.

Shows the operations of loading the magazine and chamber, extraction of the empty case, unloading, the use of the cut-off, safety lock, and cocking piece, and safety precautions.—No notes.

- *7-7. Infantry Weapons and Their Characteristics, Individual Weapons.

Pictures, gives characteristics and use of the following individual weapons: U. S. Rifle, Cal. .30, M1; U. S. Rifle, Cal. .30, M1903; U. S. Rifle, Cal. .30, M1903A1; U. S. Rifle, Cal. .22, M1922M1; Bayonet, M1905; Browning Automatic Rifle, Cal. .30, M1918; Browning Automatic Rifle, Cal. .30, M1918A1; Browning Automatic Rifle, Cal. .30, M1918A2; Automatic Pistol, Cal. .45, M1911; Automatic Pistol, Cal. .45, M1911A1; Hand Grenade, Mk II; Hand Grenade, CN-DM M6; Hand Grenade, CN M7.—No notes.

- *7-8. Infantry Weapons and Their Characteristics, Crew-served Weapons.

Pictures, gives characteristics and use of the following crew-served weapons: Browning Machine Gun, Cal. .30, M1917; Browning Machine Gun, Cal. .30, M1919A4; Browning Machine Gun, Cal. .50; 37-mm Gun, M1916; 37-mm Antitank Gun, M3; 60-mm Mortar, M2; 81-mm Mortar, M1.—No notes.

- *FS 7-9. Infantry Signals, Part I. Whistle Signals, General Arm-and-hand Signals.

Describes whistle signals, and shows pictorially general hand-and-arm signals such as *forward*, *halt*, *commence firing*, and *cease firing* used by all infantry units.—No notes.

- *7-10. Infantry Signals, Part II. Signals for Crew-served Weapons.

Shows pictorially hand-and-arm signals such as *action*, *elevate*, and *off carts* applicable to crew-served weapons of the infantry.—No notes.

- *7-11. The 60-mm Mortar, M2, Part I. Organization, Description, Disassembling, Assembling, Care and Cleaning.

Shows the characteristics, employment, principal parts, and care of the 60-mm mortar.—No notes.

- *7-12. The 60-mm Mortar, M2, Part II. Sighting Equipment, Instruments, Ammunition, Safety Precautions, and Misfires.

Shows aiming stakes, details of the M4 sight; field glass, type EE, lensatic compass, modified prismatic type; ammunition types, shell markings, shell container, ballistic data, the propelling charge, cotter ring and pin; safety precautions and misfires, including method of removing shell.—No notes.

- *7-13. The 60-mm Mortar, M2, Part III. Placing Mortar In Action.

Shows methods of transportation, hand carrying of equipment, and training in duties of each man. A squad is shown mounting the mortar, firing, removing a misfire, and finally going out of action. The method of mounting on steep slopes is also shown.—No notes.

- 7-14. Manual of the Saber.

Shows how and when each movement of the saber manual is executed. The *draw*, *carry*, *present*, *order*, *parade rest*, *port saber*,

use of the saber knot, and *return saber* are explained.—No notes.

- *FS 7-15. The 60-mm Mortar, M2, Part IV. Marksmanship.

Shows a method of instruction and the execution by the mortar crew, using exercises outlined in FM 23-85. Covers sight setting, laying for direction, laying for elevation, use of the range table, establishing direction of fire, loading, range estimation, fire orders, sensing, conduct of fire, preparation and use of range cards, and use of a progress chart.—No notes.

- *7-16. The Automatic Pistol, Cal. .45, Models 1911, 1911A1, Part I. Mechanical Training, Description, Nomenclature, Ammunition. (FM 23-35.)

Shows by pictures and drawings the mechanism, principal parts, magazine, and cleaning equipment of the pistol; and the construction, packing, and ballistics of the ball cartridge.—No notes.

- *7-17. The Automatic Pistol, Cal. .45, Models 1911, 1911A1, Part II. Disassembling, Assembling, Care and Cleaning. (FM 23-35.)

Shows disassembly sufficient for ordinary field cleaning, complete disassembly and assembly of the piece and magazine, and care and cleaning, in garrison, after firing, and in combat.—No notes.

- 7-23. Manual of the Guidon. (FM 22-5.)

Shows the design, display, and manual of the guidon. The *order, carry, facings, rests, present, salute, double time*, and position of guidon bearer in formation are explained.—No notes.

- 7-24. 81-mm Mortar, M1, Part I. Mechanical Training, Description, Mounting, Dismounting, Care and Cleaning. (FM 23-90.)

Shows characteristics, data, and nomenclature of the 81-mm mortar and ammunition. Pictures disassembling, assembling; the steps of mounting and dismounting, establishing direction, placing base plate, actions of No. 1 and No. 2; and care and cleaning, after firing and in case of a gas attack.—No notes.

FS 7-25. The 81-mm Mortar, Part II.

Shows the M4 sight in detail, giving the nomenclature, operation, mounting, use in laying in elevation and deflection, dismounting, the sight case, care and cleaning; covers the use of the firing and deflection tables; laying the mortar without the sight; spare parts and accessories; and fire control instruments, showing the nomenclature and use of the compass, field glass, and wire communication equipment of the mortar squad.—No notes.

7-26. 81-mm, M1, Part III.

The characteristics of 81-mm ammunition: nomenclature, propelling charge, stabilizing fins, fuzes, and method of packing; safety precautions before and after mounting, before and during firing; removal of a misfire from the mortar, and causes of misfires.—No notes.

***7-27. The 81-mm Mortar, Part IV.**

Training for placing the mortar in action. Shows method of carrying mortar and equipment, unloading from truck, the equipment carried by members of the squad, mounting the mortar for action, laying and firing the mortar and handling ammunition.—No notes.

7-31. The Browning Automatic Rifle, Cal. .30, M1918, M1918A1, M1918A2, Part I.

Shows the general characteristics, data, and nomenclature of the Browning automatic rifle; the development from the M1918 through the M1918A1 to the M1918A2 by indicating the basic differences; the methods of firing at

ground and air targets; ammunition; field disassembling and assembling (shown in detail, each movement of disassembling being illustrated).—No notes.

- FS 7-32. The Browning Automatic Rifle, Cal. .30, Models 1918, 1918A1, 1918A2, Part II.

Shows in detail how to disassemble and assemble the 1918A2 bipod; two methods of removing and replacing the firing pin without disassembling the rifle; removing and replacing the extractor without disassembling the rifle; disassembling and assembling the magazine.—No notes.

- *7-38. United States Rifle, Cal. .30, M1903, Part III, Marksmanship 1st, 2d, and 3d Exercises (FM 23-10).

Shows the coach and pupil method of instruction, executing exercises with the sight bar, alining on the target, and making triangles. Correct and incorrect sight pictures are shown. The necessity of careful, faithful practice is emphasized.—No notes.

- *7-45. Browning Machine Gun, cal. .30, M1917, Part I.

General characteristics of the Browning Machine Gun: direct, indirect, overhead fire, use in attack, in defense, against airplanes; blank firing attachments description: Nomenclature, tripods, cooling system; organization of a heavy weapons company.—No notes.

- *7-46. Browning Machine Gun, Cal. .30, M1917, Part II, Disassembling—Assembling, by Groups (FM 23-55).

Removal of the backplate, bolt handle, bolt, lock frame, barrel extension and barrel, latch and cover from the gun. Replacing groups in gun, including making headspace adjustment.—No notes.

- 7-47. Browning Machine Gun, Cal. .30, M1917, Part Three.

Detailed disassembling and assembling of the bolt, lock frame, barrel extension, and cover.—No notes.

- *FS 7-48. Browning Machine Gun, Cal. .30, M1917, Part IV.

Disassembling the shock absorbing groups, belt-holding pawl, and steam tube; packing the breech and muzzle ends of the barrel; changing parts (time an element) parts not requiring removal of the barrel, parts requiring removal of barrel.—No notes.

- *7-49. Browning Machine Gun, Cal. .30, M1917, Part V.

This strip illustrates the procedure to be followed in keeping the gun in good working condition. It illustrates the general care and cleaning of the gun, as well as its care before and after a gas attack. Also covered are points to be observed before, during, and after firing.—No notes.

- *7-56. Browning Machine Gun, Cal. .30, M1917, Part XII.

Technique of fire. Direct laying. Characteristics of fire, classes of fire. Range determination and windage.—No notes.

- *7-57. Browning Machine Gun, Cal. .30, M1917, Part XII.

This strip shows the methods of target designation, use of reference points, description of target, distribution of fire by section and platoon to engage various types of targets, (point, deep, wide, oblique-fixed, or moving), aiming points, elements of a fire order.—No notes.

- *7-58. Browning Machine Gun, Cal. .30, M1917, Part XIV.

Technique of fire, direct-laying overhead fire.—No notes.

- 7-60. Browning Machine Gun, Cal. .30, HB, M1919A4 (Ground), Part I. Mechanical Training: Description, Disassembling—Assembling by Groups. (FM 23-45.)

The characteristics, principle of operation, mount, nomenclature, use, disassembling and assembling by groups.—No notes.

- *FS 7-61. Browning Machine Gun, Cal. .30, HB, M1919A4 (Ground), Part II.

Detailed disassembling and assembling of the bolt lock frame barrel extension, and cover; disassembling the shock absorbing group, and belt-holding pawl; changing parts when time is a factor.—No notes.

- 7-68. The 37-mm Antitank Gun, M3, Part I. Characteristics and Description.

Shows the general characteristics, data, and nomenclature of the 37-mm antitank gun, M3, mounted on the M4 carriage; the method of moving the gun by carrier and by hand; ease in manipulating and firing the gun; types of ammunition used; targets engaged; the organization of the antitank company and squad.—No notes.

Medical Department.

- *8-1. First Aid and Sanitation—Disposal of Waste.

Field sanitary devices noted in FM 21-10 for proper care and disposal of human excreta, garbage, liquid wastes from kitchen, baths, wash tubs, and laundries.—No notes.

- *8-2. Communicable Disease Control; Control of Respiratory Diseases.

Control of respiratory diseases including standards of floor and air space, bed spacing, cubicalization and ventilation (ROTC).—No notes.

Control of Intestinal Diseases (A and B):

- *8-3. (A) Water Supply and Purification.

Procurement responsibility, requirements, sources, methods of field purification, storage and distribution (ROTC).—No notes.

- *8-4. (B) Food Control.

- Control of intestinal diseases including field messes, ice boxes, washing of mess kits, fly development, traps and bait.—No notes.

- *8-5. Control of Insect-borne Diseases.

Sanitary devices for fly, mosquito, louse, and flea control including rat proofing.—No notes.

***FS 8-6. Venereal Disease Control.**

Venereal diseases, their lesions and some of their complications, control and prophylaxis.—
No notes.

***8-7. First Aid.**

General, including first-aid precautions, steps in treatment and varieties of hemorrhage. First-aid treatment of fractures, snake bites, drowning, and transportation of patients.—No notes.

8-8. Principles of Military Epidemiology; Control of Respiratory Diseases; Selection of Camp Sites.

Responsibility, spread, classification, sources, control of sources, and control measures of communicable disease, housing as it affects respiratory disease, and military and sanitary factors in selecting a camp site.—No notes. (Control of Intestinal Diseases, A, B, and C):

8-9. (A) Water Supply and Purification.

Procurement responsibility, requirements, sources, methods of field purification, storage and distribution. (More comprehensive and advanced than 8-3.)—No notes.

8-10. (B) Food Control.

Same scope as 8-4.—No notes.

8-11. (C) Disposal of Wastes in Camps and Bivouacs.

Same scope as 8-1.—No notes.

8-12. Control of Insect-borne Diseases.

Same scope as 8-5.—No notes.

8-13. Sanitary Inspection, Reports, Orders and Surveys; Statistical Methods.

Types, basic, military and environmental features of sanitary survey, types of reports, and statistical methods including charts.—
No notes.

***8-14. Organization of the Field Army.**

Organization of the field army emphasizing the nature and extent of the medical service.—Notes.

- FS 8-15. Army Leg Splint, Half Ring, Hinged.
General principles governing the care of fractures and extensive soft tissue injuries of the lower limb, and a demonstration of the use of this splint, in indicated cases.—Notes.
- *8-16. Ambulance Loading and Unloading.
A demonstration of ambulance loading and unloading of animal- and motor-drawn ambulances.—Notes.
Medical Service, Infantry Division, Square:
- 8-17. Unit Medical Service (Medical Detachments).
The organization, the establishment of installations by and tactical operations of medical detachments of the infantry division, square.—Notes.
- 8-18. Section I, Division Surgeon's Office.
The organization and command and staff functions of the division surgeon's office of the infantry division, square.
Section II, Medical Regiment.
The functions and functional divisions of the medical regiment and its tactical dispositions.—Notes.
- 8-19. Headquarters and Service Company Medical Regiment.
Functions and functional divisions and location of functional activities of the headquarters and service company, medical regiment.—Notes.
- 8-20. 1st Battalion (Collecting) Medical Regiment.
Organization of collecting battalions, collecting companies and their tactical operation.—Notes.
- 8-21. 2d Battalion (Ambulance) Medical Regiment.
Organization of ambulance battalions, ambulance companies and their tactical operations.—Notes.
- 8-22. 3d Battalion (Clearing) Medical Regiment.
Organization of clearing battalions, clearing companies and their tactical operations.—Notes.

FS 8-23. The Medical Battalion.

The organization, combat functions, functions other than combat and the establishment of the various installations of the medical battalion designed to render service for the infantry division (triangular), infantry division (triangular, motorized), and those units known as corps troops.—No notes.

***8-24. Shelter Tent Pitching.**

Details each step in the erection of the single shelter tent and the double shelter tent.—No notes.

8-25. First Aid for Gunshot Wounds of the Face and Jaws.

Necessary procedure: Control of hemorrhage—clearance and maintenance of air passage—stabilization of parts.

Followed by bandages—wiring—prevention of shock—evacuation.—Notes.

8-26. The Roller Bandages (Barton, Modified Barton, and Parker Bandages).

Detailed method of application of the following bandages:

- a. Barton.
- b. Modified Barton.
- c. Parker.—Notes.

8-27. The Roller Bandages (Circular, Modified Gibson, Knotted and Recurrent Bandage of Head).

Detailed method of application of the following bandages:

- a. Circular.
- b. Modified Gibson.
- c. Knotted.
- d. Recurrent bandage of head.—Notes.

8-28. The Roller Bandages (Four-Tailed, First-Aid Packet, Figure-of-Eight, Crossed (One Eye), and Crossed (Both Eyes)).

Detailed method of application of the follow-

ing bandages:

- a. Four-tailed.
- b. First-aid packet.
- c. Figure-of-eight.
- d. Crossed bandage (one eye).
- e. Crossed bandage (both eyes).—Notes.

FS 8-29. Emergency Bandaging of Face and Jaw Injuries.

Rules for utilization of compress—bandages—wound dressings.

Fourteen types of bandages applied in emergency bandaging of face and jaw injuries. First-aid packet. Medical pouch and contents (both normal and capacity).—Notes.

8-30. Triangular Bandages (Face and Jaw Wounds).

Details methods of preparation and application of triangular and cravat bandages; includes fronto-occipital triangle (head cap), cravat of head or ear, chin—cheeks—scalp cravat, and triangular compressed bandage.—Notes.

8-31. Roller Bandage (Face and Jaw Wounds).

Details methods employed in preparation, application, and removal of roller bandage; includes principles of application of the figure-of-eight, spiral reverse, and spica bandages.—Notes.

8-32. Extra-Oral Traction Appliances (Wooden Tongue Depressor Traction Appliance and Metal Coat Hanger Traction Appliance).

Details methods of preparation and application of the wooden tongue depressor traction appliances and the metal coat hanger traction appliance.—Notes.

Ordnance Department.

***9-1. Small Arms (rifles, pistols, revolvers, automatic rifles).**

Captioned photographs of each standard weapon.—Notes.

***9-2. Infantry and Cavalry Accompanying Weapons.**

Captioned photographs of each standard weapon.—Notes.

- *FS 9-3. Small Arms Machine Guns and Mounts.
Captioned photographs of each standard weapon.—Notes.
- *9-4. Field Artillery.
Captioned photographs of each standard weapon.—Notes.
- *9-5. Railway and Seacoast Artillery.
Captioned photographs of each standard weapon.—Notes.
- *9-6. Aircraft and Antiaircraft Artillery—Guns.
Captioned photographs of each standard weapon. This film includes photographs showing progressive development of this subject.—Notes.
- *9-7. Aircraft and Antiaircraft Artillery—Fire Control.
Captioned photographs of each standard instrument. This film includes photographs showing progressive development of this subject.—Notes.
- *9-8. Automotive Matériel.
Captioned photographs of automotive matériel.—Notes.
- *9-15. Military Explosives.
Captioned photographs of containers and types of powder. Excellent material for training and basic training.—Notes.
- *9-16. Small Arms Ammunition.
Captioned photographs and cross section drawings of each type of small arms ammunition. Excellent material for basic training.—Notes.
- *9-17. Artillery Ammunition.
Unusual captioned photographs illustrating types of artillery ammunition. Excellent material for basic training.—Notes.
- *9-18. Bombs and Pyrotechnics.
Captioned photographs of each type of bomb, nose and tail fuze. Included is a table of bomb assemblies, correct to September 1, 1940. Excellent for basic training.—Notes.

- *FS 9-19. Hand Grenades and Trench Mortar Ammunition.

Captioned photographs of each type of ammunition, and containers for shipment and storage in the field. Excellent for basic training.—Notes.

- *9-20. The U. S. Rifle, Cal. .30, M1, Part I, Disassembly and Assembly (3d and 4th Echelon).

Covers the M1 rifle in detail as to disassembly and assembly.—Notes.

- *9-21. The U. S. Rifle, Cal. .30, M1903A1, Part I, Disassembly and Assembly (3d and 4th Echelon).

Covers the M1903A1 rifle in detail as to disassembly, assembly, and nomenclature and inspection. The historical background of the M1903 and M1917 rifles is covered briefly.—Notes.

- 9-22. The U. S. Rifle, Cal. .30, M1903A1, Part II—Inspection and Repair (3d and 4th Echelon).

Covers necessary inspection procedure and the use of inspection gages.—Notes.

- 9-23. The U. S. Rifle, Cal. .30, M1, Part II—Inspection and Repair (3d and 4th Echelon).

Covers necessary inspection procedure and the use of inspection gages.—Notes.

Quartermaster Corps.

- *10-20. Quartermaster Battalion (Bakery).

The organization, personnel, equipment, and supply of the quartermaster battalion (bakery) and the quartermaster company (bakery) at war strength.—No notes.

- 10-22. Miscellaneous Quartermaster Units.

Quartermaster company—refrigeration.

Quartermaster company—sales commissary.

Quartermaster company—salvage collecting.

Quartermaster battalion—gasoline supply.

The mission; organization to accomplish the mission; transportation and equipment provided; functions, and duties of the specialized personnel of the above listed quartermaster units.—No notes.

FS 10-25. Miscellaneous Quartermaster Units.

Quartermaster company—sterilization and bath.

Quartermaster company—depot (supply).

Quartermaster company—railhead.

Quartermaster company—mobile shoe repair.

The mission; organization provided to accomplish the mission; transportation and equipment provided; functions, and duties of the specialized personnel of the above listed quartermaster units.—No notes.

10-27. Quartermaster Squadron Remount and Operation of a Quartermaster Remount Depot.

The organization and operation of the quartermaster remount depot, together with the organization and functions of the quartermaster remount squadron and remount troop.—No notes.

10-29. Graves Registration Units.

Depicts the duties and organization of the quartermaster company, graves registration service, by means of photographs taken during the World War, showing graves registration units carrying out their allotted duties.—No notes.

***10-33. Automotive Electricity.**

Fundamentals and principles of electricity and magnetism, terminology, storage battery operation and maintenance; battery and magneto ignition system; starting and generator system; lighting and other electrical units and systems.—No notes.

***10-34. Automotive Power Transmission Units.**

Power transmission systems, clutches, overdrives, transfer cases, power take-offs, propeller shafts and universal joints, final drives, differentials, live axles and bearings; terminology and nomenclature.—No notes.

***FS 10-35. Chassis, Body, and Trailer Units.**

Terminology and nomenclature; frames, springs and shock absorbers; suspension and steering systems; wheel alinement, rims and tires; types of bodies, trailer units and trailers.—No notes.

***10-36. Automotive Brakes.**

Terminology; braking system; mechanism and construction; mechanical, hydraulic, air, vacuum and electrical systems.—No notes.

***10-37. Diesel Engines and Fuels.**

Principles of operations, types, including semi-Diesels, parts and their functions including nomenclature, lubrication and cooling, fuels and fuel systems.—No notes.

***10-38. The Motorcycle.**

Description, types and nomenclature of Indian and Harley-Davidson, U. S. Army Model motorcycles, description of units, parts, and their functions.—No notes.

***10-39. Lubrication.**

Theory, source, types, properties, and characteristics of lubricants, selections, problems and use of lubricants, lubrication charts and schedules.—No notes.

***10-40. Hand, Measuring, and Power Tools.**

Explains the specific purpose, correct use, and proper care of the common tools of the motor vehicle mechanic.—No notes.

***10-41. The Blacksmith and the Welder.**

This explains the purpose and correct use of tools and equipment of the blacksmith and welder.—No notes.

***10-42. The Internal Combustion Engine.**

Terminology and definition of terms, principles of operation, types of engines, parts and their coordinated functions; engine lubrication and cooling.—No notes.

***10-43. The Motor Vehicle.**

Automotive nomenclature and terminology, common words, terms and phrases; classifica-

tion, procurement, designation, registration, and description of military motor vehicles; payloads, weights and types; classification of motor vehicle units and assemblies and their functions.—No notes.

***FS 10-44. Fuel and Carburetion.**

Carburetor nomenclature, engine fuels, fuel systems, physics and principles of carburetion; types of carburetors, intake and exhaust systems, superchargers and governors.—No notes.

***10-45. Ford V-8 Reconnaissance Car, Maintenance and Lubrication, Part 1.**

A commercial film strip which has been adapted for use as a War Department film strip. The title is self-explanatory.—No notes.

***10-46. Ford V-8 Reconnaissance Car, Engine Tune Up, Part 2.**

A commercial film strip which has been adapted for use as a War Department film strip. Title is self-explanatory.—No notes.

***10-47. Ford V-8 Passenger Car, Part 1, Maintenance and Lubrication Services.**

A commercial film strip which has been adapted for use as a War Department film strip. The title is self-explanatory.—No notes.

***10-48. Ford V-8 Passenger Car, Part 2, Engine Tune Up.**

A commercial film strip which has been adapted for use as a War Department film strip. The title is self-explanatory.—No notes.

***10-49. The Machinist.**

A series of photographs for use of the instructor in the explanation of the drill press, screw cutting engine lathe, the milling machine, the shaper, grinders, and grinding and power hacksaws.—No notes.

- *FS 10-50. 28-Series Zenith Carburetor.
A commercial film strip which has been adapted for use as a War Department film strip. The title is self-explanatory.—Notes.
- *10-51. 23-Series Zenith Carburetor.
A commercial film strip which has been adapted for use as a War Department film strip. The title is self-explanatory.—Notes.
- *10-52. Construction and Operation of Zenith 450-Series.
A commercial film strip which has been adapted for use as a War Department film strip. The title is self-explanatory.—Notes.
- 10-53. First Echelon of Maintenance.
The duties, functions, and limitations of the first echelon, a description of the personnel, tools, and equipment.—No notes.
- *10-54. Second Echelon of Maintenance.
The duties, functions, and limitations of the second echelon, a description of the personnel, tools, and equipment.—No notes.
- *10-55. Third Echelon of Maintenance.
Outlining the basic functions and limitations of the third echelon of maintenance, a description of the personnel, tools, and equipment authorized.—No notes.
- *10-56. Fourth Echelon of Maintenance.
Outlining the basic functions and limitations of the fourth echelon of maintenance, a description of the personnel, tools, and equipment authorized.—No notes.
- *10-57. Carter Carburetor.
A commercial film strip which has been adapted for use as a War Department film strip. The title is self-explanatory.—No notes.
- *10-58. Inspection of Motor Vehicles.
A general outline of motor vehicle inspections; the purpose, technique, and types of inspection.—No notes.

- *FS 10-59. Sheet Metal Work, Body, Fender, and Radiator Repairs.

Illustrations herein to be used as instructors' charts in conducting lectures on sheet metal work, body, fender, and radiator repairs.—No notes.

- *10-61. The Storage Battery.

This film strip outlines battery construction, operation, maintenance, care, and charging methods.—No notes.

- *10-62. Motorcycle Inspection (Command, Maintenance, Technical).

The importance of systematic motorcycle inspections and methods of making them, based on WD, TM 10-515; illustrates routines of daily, weekly, monthly, and semiannual inspections.—No notes.

- *10-66. Electrical Tune-up.

Principal functions of electrical units, tune-up procedure and minor adjustments, maintenance and operation of the electrical system.—No notes.

Signal Corps.

- *11-1. Basic Signal Communication.

Lettering, message forms, phonetic alphabet, lineman's tools, wire splices, connections for batteries, illustrations of telephones EE-4, EE-5, and EE-8, Army organization and military symbols (92 frames).—Notes.

Armored Force.

- 17-1. Blocking and Securing Motor Vehicles for Shipment by Railroad.

Illustrates methods of blocking and securing various types of vehicles and guns for shipment by railroad. Also contains lists showing number, size of standardized blocks and securing materials required for types of vehicles from solo motorcycles to medium tanks. Applicable to all arms and services.—No notes.

FS 17-2. Thompson Submachine Gun, Cal. .45, M1928A1, Mechanical Training.

Covers the characteristics, nomenclature, assembling and disassembling, functioning, care and cleaning, stoppages and immediate action, spare parts and accessories, safety precautions, and ammunition of the Thompson submachine gun, cal. .45, M1928A1.—No notes.

17-3. The Light Tank, M2A4, Description and Characteristics.

Covers general description of the characteristics, nomenclature, certain details of construction and functioning of light tanks. The light tanks, M2A4 and M3, equipped with either gasoline or Diesel engine are described.—No notes.

17-4. The Medium Tank, M2A1, Description and Characteristics.

Covers general description of the characteristics, nomenclature, certain details of construction and functioning of the medium tank, M2A1.—No notes.

17-5. Signals—Arm and Hand, Flag and Light.—No notes.

17-6. Tank Maintenance, First Echelon, Part I.

Maintenance responsibility of crew; cleaning, inspection, lubrication, tightening nuts and bolts, care of tank tools and guns, care of battery.

Maintenance performed under supervision of second echelon maintenance personnel; removal of armor plates, changing oil, lubrication of certain parts, track maintenance.

Emergency maintenance operations; replacement of fuses, adjustment of control rods, levers and linkages, repairing fuel or oil line leaks.—No notes.

17-7. Tank Maintenance, First Echelon, Part II, Inspections.

Covers in detail inspections before operation, at the halt and after operation. The inspection duties of the tank commander, which include

Supervision of all crew members, and the duties of the driver, the tank gunner, and the radio operator are included.—No notes.

FS 17-8. The Medium Tank, M3, Description and Characteristics.

Covers the general description of the medium tank, M3, to include capabilities, common nomenclature, dimensions, armor and armament, ammunition and equipment, crew, engine, power train, suspension, and tracks.—No notes.

***17-9. The Half-Track, Description and Characteristics.**

Describes types of bodies on the half-track chassis; the various dimensions, armament, equipment, and capabilities of the half-track are shown. Engine, power train, driving system, suspension, and track. The uses of the half-track as a prime mover are described.—No notes.

APPENDIX I

TRAINING FILM EXAMINATION

■ 1. GENERAL.—The technique described below together with the sample form on page 191 are guides only. The questions listed pertain to TF 11-157, "Military Courtesy and Customs of the Service," which is stocked at all libraries and is, therefore, available for all instructors to use in becoming familiar with the procedure outlined herein. The same technique can be applied to most training films by the individual instructor. The test of the questions pertaining to any film being: that the film contains the answer; that the question is neither too simple nor too difficult; that the question is direct, clear, and possible of only one correct answer.

■ 2. PURPOSE.—The purpose of conducting an examination after screening a training film is to increase the instructional value of the film by stimulating the minds of the class to greater concentration, and to provide a means for emphasizing the salient points of instruction brought out in the film.

■ 3. MATERIALS REQUIRED.—Mimeographed form similar to sample on page 191.

One for each member of the class.

Pencils if available. One per each member of the class.

Blackboard and chalk.

■ 4. PROCEDURE.—*a.* After other suitable explanation preceding the screening of the film distribute one copy of the quiz sheet and one pencil if available, to each member of the class. Announce that immediately after the screening each member of the class will be required to answer 15 questions, the answers to which can be given after a careful study of the film. Better results will be obtained if the instructor impresses on the class that if each individual gives the screening of the film his entire attention most answers should be correct.

b. The method of indicating the answers on the quiz sheet should be explained before and again after the screening of the film. The answer to each question will be indicated by punching a hole in either the "yes" or "no" column with a match, pencil, or other object opposite the number of the question asked. If sufficient pencils are available, each member of the class should be required to write his name on his quiz sheet so it can be identified.

c. Before asking the questions, explain again how they will be answered. Ask each question slowly and distinctly. Repeating each question once will be helpful to the class and improve the results.

d. After all questions have been asked, the instructor should read the first question and require a raising of hands by all who answered "Yes," then all who answered "No." The class can then be informed of the correct answer by announcing it or writing it on the blackboard which has been ruled and numbered similarly to the quiz sheet. This procedure is then repeated until all answers have been announced. It is suggested that if the quiz sheets bear the names of the individuals of the class, they be collected even though grading them is not intended.

■ 5. QUESTIONS SUGGESTED.—The following questions are based on TF 11-157, "Military Courtesy and Customs of the Servive." They represent only a few of innumerable questions which can be based on any training film.

Q. Does a colonel wear gold colored leaves on his shoulders?
A. No.

Q. Is a first sergeant of a higher grade than staff sergeant?
A. No.

Q. Your regimental chaplain is a captain. You have reason to talk with him. Do you address him as chaplain?
A. Yes.

Q. You are in a formation. The formation is "at rest." An officer speaks to you. Do you come to attention? A. Yes.

Q. You are standing in the hallway in the headquarters building of your unit. Your headgear is on your head. You are unarmed. An officer passes by. Do you salute him?
A. No.

Q. You are a sentry walking your post. An officer approaches and speaks to you. You have executed the proper salute. An officer senior to the one with whom you are talking passes and is saluted by your officer. Do you also salute the passing officer? A. Yes.

Q. When passing an officer you should look him in the eye when you salute him? A. Yes.

Q. When in civilian clothes with your hat on the hand salute is executed when the National Anthem is played?
A. No.

Q. You are at mess. An officer speaks to you. You should rise and stand at attention? A. No.

Q. You are in charge of a work detail. You are marching at route step and pass your regimental headquarters. The National and Regimental Colors are cased. Do you call your detail to attention and salute them? A. No.

Q. After having your first sergeant's permission to speak to your company commander, you approach his desk. Your headgear is in your left hand. Do you salute him? A. Yes.

Q. When on your post, your company commander who is in civilian clothes passes you. Do you salute him? A. Yes.

Q. You are a member of a group standing outside a recreation building. Do all salute an officer when he approaches?
A. Yes.

Q. You render the same courtesy when "To The Color" is sounded at Retreat as you do to the National Anthem? A. Yes.

Q. You are wearing sidearms and headgear and are in your tent. Do you uncover when an officer enters? A. No.

TRAINING FILM QUIZ SHEET

Name

Orgn.

Yes

No

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

With pencil or match punch hole
for your answer.