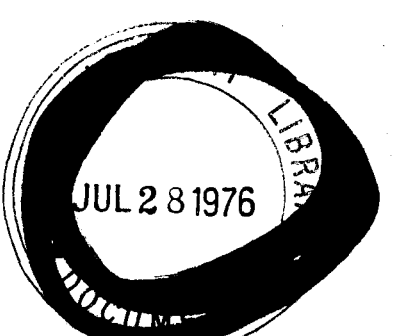
FM 21-7

WAR DEPARTMENT

BASIC FIELD MANUAL

LIST OF TRAINING FILMS, FILM STRIPS, AND FILM BULLETINS

January 1, 1943



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January 1, 1943

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1943

For sale by the Superintendent of Documents, Washington, D. C.

WAR DEPARTMENT,
WASHINGTON, January 1, 1943.

FM 21–7, List of Training Films, Film Strips, and Film Bulletins is published for the information and guidance of all concerned.

[A. G. 062.11 (1–4–43).]

BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

J. A. ULIO,
Major General,
The Adjutant General.

DISTRIBUTION:

R and H (10); Bn and L (3).

(For explanation of symbols see FM 21–6.)

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BASIC FIELD MANUAL

LIST OF TRAINING FILMS, FILM STRIPS, AND FILM BULLETINS

(This pamphlet, together with FM 21–6, January 1, 1943, supersedes FM 21–6, July 1, 1942; including paragraphs 4 and 5, Training Circular No. 70; Training Circular No. 71; section I and paragraphs 3 and 4, section II, Training Circular No. 78; Training Circular No. 82; paragraphs 4 and 5, section II, Training Circular No. 98; section II, Training Circular No. 110, War Department, 1942; and paragraphs 3 and 4, Training Circular No. 1, War Department, 1943.)

SECTION I

TRAINING FILMS AND FILM STRIPS

■ 1. SCOPE.—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 conduct and supervision of training can employ them to maximum advantage in accomplishment of the training objective.

a. Training films.—(1) 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. Nearly all training films are available in both 16-mm and 35-mm.

(2) The various steps required in production and release of a training film are similar to those involved in 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.

b. 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 in detail appropriately vital points of the discussion.

■ 2. PURPOSE OF VISUAL TRAINING AIDS.—*a. General.*—In 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 proper use of visual aids better illustrates and simplifies textbook and other conventional forms of instruction, and materially shortens the time required for 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 combat units with maximum efficiency in a minimum of time. Through 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 rapid accomplishment of their training missions.

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 troops a general orientation to

the course. During discussion or review they may be used to advantage also for demonstrating correct procedures and methods or techniques which should be 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 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 pieces of 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.

■ 3. 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 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 contributes further to saving in equipment, material, and transportation.

(4) Instruction in care, maintenance, and operation of new material is often available in training films before 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 organizations in conducting demonstrations adequate in scope and perfection of detail to meet the objective. Regardless of location or local limitations, demonstrations are available to *all* field forces by means of training films, which in their production utilize carefully coordinated and rehearsed service school demonstrations, prepared under the most favorable conditions of terrain, facilities, and thoroughly trained personnel. This results in standardization of instruction to widely scattered troops.

(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.

c. Value as training aids.—When used correctly 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 FM 21–5, Military Training, and shown in TF 7–295, Military Training, and FS 7–75, Visual Aids To Training.

■ 4. ASSISTANCE TO TRAINING AGENCIES.—A training film distribution and instruction branch composed of experts in visual education has been established in the War Department, under supervision of the Chief Signal Officer. Personnel from this organization will make periodic visits to the field for the purpose of inspecting projection equipment and library facilities. This personnel also is available to training agencies for consultation and recommendation relative to 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 suggestions as to how maximum benefits may be attained from visual aids in military training.

■ 5. 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 flexible and economical use of these facilities consistent with a wide variety of training needs. In order that maximum benefits may be obtained from proper integration of training film subjects in the training program, a knowledge of training film libraries available, and how subjects may be obtained from them, is essential for all personnel charged with conduct of training.

b. Film libraries.—(1) A central distribution library for training films is maintained at headquarters of each service command and oversea department. These libraries are

stocked with all training film subjects released by the War Department as listed in paragraph 13 and in 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 service command or department. Requests from posts or separate organizations to which a sublibrary is not available (see (3) below) will be addressed to the commanding general of the service command, specifying whether a 35-mm or 16-mm size is required (see AR 105–260). Training films are accountable property and are issued for retention only to film libraries accountable for signal property. They may be shipped on loan to other military organizations, civil defense agencies, and to certain schools which train army personnel.

(2) Distribution of training films and film strips to Army Air Forces units and to units of the Army Ground Forces and Services of Supply stationed at Army Air Forces stations in the continental United States, is made by the Commanding General, Army Air Forces. Requisitions for issue of films to such stations and units should be placed through Army Air Forces supply channels rather than through service command signal officers. (See A. A. F. Regulations No. 65–4.) Service Army Air Forces units located at Army Ground Forces or Services of Supply stations, and in foreign stations, are supplied by the Chief Signal Officer through service command, department, or task force signal officers.

(3) Training film sublibraries 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 sublibrary is to make immediately available for troops it serves the subjects for which there is relatively constant training need. Other subjects for which there is only occasional or infrequent need are obtained from the central distribution library on a temporary loan basis by timely requests to the commanding general of the service command. Initial stockage of these sublibraries by the War Department is based on recommendations of the Commanding General, Army

Ground Forces, and of the chiefs of arms and services concerned, after consideration of the training objectives of troops stationed at these locations. Subjects not initially stocked at sublibraries, for which a continuing training need subsequently develops, may be obtained for permanent retention by the sublibrary by requisition on the service command signal officer. Subjects initially stocked which are subsequently found to be needed rarely, or not at all, *should be promptly reported to the Chief Signal Officer* through channels, in order that they may be made available elsewhere. Separate or small organizations located in close proximity to a sublibrary, but not a component of the major troop concentration it serves, may obtain training film subjects on a temporary loan basis upon application to the sublibrary.

(4) Auxiliary libraries under the control of local sublibraries have been established at some posts where schools are situated, and may be established elsewhere upon authorization by the Chief Signal Officer where circumstances make such action advisable. Auxiliary libraries so established are provided with training films in accordance with their needs by the Chief Signal Officer through the service command library and local sublibrary.

(5) Reception center libraries are established at each reception center for its exclusive use. These libraries are stocked with prints of basic training subjects *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.
TF 25–670, Organization of the Army.

(*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—Position and Facings.

(6) The following training films *should be seen by every enlisted man* during his first 6 months of training, in addition to films on basic subjects which are required by War Department instructions to be shown to all personnel passing through reception centers. When time and subject matter limitations do not permit scheduled showings of these films in the training program, special arrangements may be necessary. It is better that men see many films under less-than-ideal conditions than lack the information, vital to their welfare and safety, that is contained in the films. The running time of films on the following list is approximately 7 hours, and may constitute a minimum 7 weeks' program of 1 hour, once a week.

Films every enlisted man should see

Serial No.	Subject
TF1–258	Identification of Aircraft—General Characteristics and Types of United States Military Airplanes.
1–259	Identification of Aircraft—Distinguishing Features of United States Military Airplanes.
3–216	Adjustment of the Service Gas Mask.
3–217	Inspection of the Service Gas Mask.
5–12	Map Reading.
5–146	Means of Antimechanized Defense.
7–108	Technique of Small Arms Fire Against Attack Aviation.
7–109	Defense of Infantry Columns Against Attack Aviation.
7–110	Defense of Infantry Areas Against Attack Aviation.
7–233	Determining Direction in the Field.
7–234	Use of Natural Cover and Concealment.
7–236	Weapons of the Infantry Division.
7–249	Instruction of the Soldier, Dismounted, Without Arms—Steps and Marchings.

Serial No.	Subject
TF7–275	Operations of a Reconnaissance Patrol at Night.
7–280	The Reconnaissance Scout.
8–304	First Aid for Gas Casualties.
11–225	Interrogation of Prisoners.
11–321	Combat Counterintelligence.
11–324	Safeguarding Military Information.
25–394	Detection of Booby Traps.
25–670	Organization of the Army.
FS1–38	Points to Look For in the Identification of Aircraft.

■ 6. DISTRIBUTION OF FILM STRIPS.—Initial distribution of film strips is made by the War Department to organizations through service command signal officers upon recommendation of the Commanding General, Army Ground Forces, and of chiefs of the arms and services. Subsequent distribution to Army Ground Forces and Services of Supply units is made by the service command signal officer or Chief Signal Officer upon direct request of the organization or installation desiring them. Distribution to Army Air Forces units is made by the Army Air Forces through their own supply channels.

■ 7. 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 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 constant availability of equipment and films 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 will coordinate its use among subordinate units of the division to insure that maximum benefit is obtained from it. He will arrange with the local sublibrary serving his division for prints of training films required.

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

(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 unit or local post sublibrary, 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 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 is in direct proportion to their effective utilization by instructors in the 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 maximum effectiveness from the use of training films and film strips:

(1) In formulating a 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 (*b* (5) above) as well as a knoweldge of subjects contained in the list of training films following in this manual. 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 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 use-

ful. 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 completion of the course. The second would give best results at a definite point in the course after 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 knowledge of their content on the part of the instructor is equally as essential as his knowledge of texts or any other material used in 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 personnel in the rear to see it without eye strain and 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. These theaters are equipped with 35-mm projection equipment.

(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

showing of the film or film strip by a brief explanation of the object or scope of the film and essential points which should be looked for by the audience. 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.

d. Training film examination.—(1) *General.*—(*a*) Following the screening of each film, a brief examination should be conducted by the instructor for the purpose of reviewing essential points of the subject and impressing them on the minds of students. This examination may be oral or written, but the question should be carefully prepared, confined to the content of the film, and designed to determine the student's understanding of the material presented. An informal summation conducted by the instructor should follow the examination to clarify important points of the subject.

(*b*) The technique described below, together with the sample form, is a guide only. The same technique can be applied to most training films by the individual instructor, the test of questions 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.*—A mimeographed form similar to the sample following this paragraph. One for each member of the class.

Pencils if available—one for 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 when 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 answers on the quiz sheet should be explained before and again after 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 that 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 will improve 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 by 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, if quiz sheets bear the names of the individuals of the class, that they are 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 Service," which is stocked at all libraries and is, therefore, available for all instructors to use in becoming familiar with the procedure outlined. 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. Yes.

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 should you look him in the eye as you salute him? A. Yes.

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

Q. You are at mess. An officer speaks to you. Should you 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 Colors" 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.		

■ 8. ERRORS IN USE OF VISUAL TRAINING AIDS.—As a 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) 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. 7*c* (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.

■ 9. PROJECTION FACILITIES.—*a. Release prints.*—Most 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 paragraphs 13–15, following. 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 projection of training films at such times as will not conflict with regularly scheduled showings of the U. S. Army Motion Picture Service. (Par. 7*d*, AR 210–390.)

(2) The second type of projection equipment available is the portable 16-mm sound projector. This equipment is suitable for projection of films before groups 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.

Issue of projectors is authorized by Tables of Allowances now being published in connection with AR 310–60. Schools of the arms and services and requests in excess of Tables of Allowances, are supplied in accordance with individual needs.

(3) Personnel used as projectionists are required to take the necessary instruction and examination on care and operation of 16-mm equipment. A permit will be issued by film librarians on completion of this course.

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 enables it to be rotated among the companies of the battalion, and used in any location equipped with a suitable power outlet. Unlike motion picture projectors, however, the light source of the film strip projector is of sufficient magnitude 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 from dirt.

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

(6) 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.

■ 10. RULES FOR USE OF 35-MM FILMS.—The following instructions will govern 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 the projector is being threaded up, 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 the machine is started.

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.

■ 11. 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 silent type films. On the silent type projector 16-mm sound film subjects cannot be run. They can be used only on 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. Insects attach themselves to the film and are wound on the reel. Chemical reaction resulting from decomposition of these insects often injures and in some cases ruins the film. 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 being run through the projector.

g. Film broken during projection may be momentarily secured on the take-up reel with a small piece of tape or paper clips.

■ 12. STORAGE AND CARE 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 combustion is completed immediately, the film is cellulose nitrate. If the film smoulders 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 since 1940 are on safety bases.

e. All film should be cleaned and checked after each showing.

(1) 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 the film thoroughly 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.

(2) In the repairing of sound film, in 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.

SECTION II

LISTS

■ 13. SOUND TRAINING FILMS.—*a*. The following list shows training films issued to date, by serial number, title, year of release, number of reels, running time, and a brief synopsis of their content. /

b. Sound prints of all subjects are available in both the standard 35-mm size and 16-mm size unless otherwise indicated.

c. All films not permanently stocked at sublibraries or auxiliary libraries may be obtained by application to service command central distribution libraries. (See par. 5*b*, preceding, and par. 19, AR 105–260.)

d. Numbers indicate the arm or service primarily responsible for preparation of the subject matter (see par. 3, FM 21–6) and the Signal Corps serial number of the film. The index indicates films in series not listed consecutively. Subjects applicable to more than one arm or service are indicated by a superior "a" (ª). Films which have been released since the July 1, 1942 edition of FM 21–6 are indicated by an asterisk (*).

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels: 35-mm	Number of reels: 16-mm	Running time (minutes)
TF 1–116	1940	Theory of Aerial Gunnery—Forces Acting on the Projectile. (Animated drawings show various forces acting upon projectile when fired from airplane. Forces are propellent force, gravity, air resistance, draft due to rotation of projectile, and force due to movement of airplane.)	1	1	11
1–117	1940	Theory of Aerial Gunnery—Sighting. (Animated drawings show fundamentals of sighting machine gun from airplane in flight. Various types of sights and methods of mounting machine guns).	2	1	17
* 1–133	1941	Modern Weather Theory and Structure of Storms—Primary Circulation. (Atmospheric waves. Kind of weather associated with various parts of typical wave.)	2	1	19
* 1–134	1941	Modern Weather Theory and Structure of Storms—Development and Characteristics of Atmospheric Waves. (Convection, deflection of air currents due to various causes; formation of polar front and restoration of equilibrium.)	2	1	14

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF • 1–135	1941	Aircraft Engines—Types, Mechanism, and Oiling System. (Types of airplane engines. Animated drawings cover the principles involved in operation and systems and methods of lubrication.)	4	1	36
• 1–136	1941	Aircraft Engines—Elements of Electricity as Applied to Ignition Systems. (Animated drawings show subjects of elementary electricity and magnetism, applying principles involved to engine ignition systems.)	3	1	28
• 1–137	1941	Aircraft Engines—Carburetion. (Types of carburetions. Principles of operation shown by animated drawings. Application to airplane engines.)	4	1	36
1–138	1941	Aerial Photography—Introduction. Aerial Camera Types. (Types of cameras used by Air Corps for aerial photography. Care in operation and maintenance.)	1	1	10
1–139	1941	Aerial Photography—K–12 Camera. (Use, action, and precautions in loading, operation, and maintenance.)	1	1	11
1–140	1941	Aerial Photography—The A–1B Magazine. (Action and precautions in loading, operation, and maintenance.)	1	1	9

1–141	1941	Aerial Photography—The T–3A Camera. (Action and precautions in loading, operation, and maintenance.)	2	1	16
1–142	1941	Aerial Photography—Processing the Film. (Actions and precautions in developing film and making prints therefrom. Use of aerial photographs in making mosaics.)	2	1	21
1–153	1941	Modern Aladdin's Lamp. (Commercial film showing details of manufacture and operation of vacuum tubes. Film originally produced for Western Electric Company.)	3	1	22
1–159	1942	Aircraft Machine Gun Sights—Harmonization. (Wind vane front sight and relationship to gun. Approximate range and speed of target. Principle of collimator in which rays of light form sight line. Front sighting bead mounted on hinged arms. Proper adjustment of bolts to free and move sights. Vertical adjustment.)	2	1	16
1–160	1941	Aerodynamics—Air Flow. (Visible air streams illustrate turbulence and magnitude of wake produced by various angles of attack and various types of airfoils.)	2	1	18
1–161	1941	Aerodynamics—Forces Acting on the Airfoil. (Relative wind, lift, and drag. Animated drawings show effects. Methods by which measurements of forces are made in wind tunnel tests.)	3	1	26
1–162	1942	Airplane Hydraulic Brakes—Principles of Operation. (Hydraulic braking system. Master cylinder. Pressure control valve and pressure debooster. Work that maintenance crew must understand in keeping hydraulic brake system of airplane in constant perfect operation.)	2	1	19

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 1-163	1941	Synchronization of Aircraft—Principles of Synchronization. (Definition and need for synchronization. Units which accomplish synchronization and manner in which units function.)	1	1	8
1-164	1941	Synchronization of Aircraft—Care and Maintenance of Synchronizing Units. (Definition and need for synchronization, and principles involving operation.)	2	1	15
1-174	1942	Aircraft Hydraulic Systems, BC-I Airplanes. (Title self-explanatory.)	2	1	15
1-175	1942	Aircraft Hydraulic Systems—Maintenance. (Proper methods for assembly and maintenance of hydraulic systems.)	4	1	33
1-204	1942	Celestial Navigation—Position Finding on the Earth. (Theory and step-by-step procedure of plotting lines of position and determinining relative locations.)	2	1	14
1-206	1942	Telegraph Printer. Part I.—Operation. (First film of series. Mechanics of operation.)	2	1	15
1-207	1942	Telegraph Printer. Part II.—General Principles. (Title self-explanatory.)	1	1	7

1–208	1942	Telegraph Printer. Part III.—Transmitting Mechanism. (Title self-explanatory.)	1	1	9
1–209	1942	Telegraph Printer. (Part IV).—Receiving and Printing Mechanism. (Title self-explanatory.)	2	1	12
1–210	1942	Telegraph Printer. (Part V.)—Assembly and Installations. (Title self-explanatory.)	2	1	17
1–211	1941	Airplane Structures—Structural Units, Materials, and Loads for which Designed. (Types of airplane structural units. Introduction to series of films covering detailed construction of wings, fuselage, control surfaces, and alighting gear.)	1	1	8
1–212	1941	Airplane Structures—Wing Construction. (Details of type wing construction in photographs and diagrams.)	1	1	11
1–213	1941	Airplane Structures—Fuselage Construction. (Construction of several types of fuselage; comparisons in principle and matériel.)	1	1	8
1–214	1942	Airplane Structures—Control Surfaces. (Construction and operation of control surfaces, such as ailerons, stabilizer, elevator, fin, rudder.)	1	1	10
1–215	1942	Airplane Structures—Alighting Gear. (Construction and operation, on both fixed and retractable gear, of struts, wheels, drag links, brakes, shock absorbers, and retracting motors and allied devices.)	1	1	10
* 1–221	1941	Small Arms Ammunition—Handling and Storage. (Approved methods of handling and storing small arms ammunition.)	1	1	11
* 1–222	1941	Small Arms Ammunition—Calibers .50, .30, and .45 Cartridge. (Construction and use of various types of small arms ammunition included in title.)	1	1	9

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF [a] 1–223	1941	Small Arms Ammunition—Loading. (Approved methods of loading small arms, including automatic pistol, Springfield rifle, Garand rifle, automatic rifle, and sub-machine gun.)	2	1	19
[a] 1–226	1942	Aerial Bombs—Loaded. (Construction and component parts of all types of bombs, methods of handling, setting fuzes, loading bombs into bomb bays, responsibilities of officers and men directly concerned.)	2	1	13
1–227	1941	Aerial Bombs—Practice. (M38–A–2, 100-pound practice bomb. M37 parachute practice bomb. General assembly of fuzes and spotting charges.)	2	1	13
[a] 1–229	1941	Wizardry of Wireless. (Commercial film covering elementary technical aspects of radio communications.)	2	1	19
1–238	1942	Tow Targets—Launching. (Types of sleeve and flag antiaircraft tow targets. Technique of handling and launching targets. Methods of loading and releasing.)	2	1	16

1–239	1942	Tow Target Equipment, Operation and Maintenance—C–5 Windlass. (Care and maintenance of mechanical equipment pertaining to tow targets, windlass, cable, fastenings, drag assembly, release cones.)	2	1	16
1–245	1941	Aerial Navigation—Maps and the Compass. (Fundamentals of maps, compass. Proper uses and coordination.)	2	1	13
1–246	1942	Airplane Propeller—Principles and Types. (Fundamentals of design and operation common to all aircraft propellers. Behavior as airfoil; relation to pitch and diameter; pitch changes in various types.)	3	1	17
1–247	1942	Synchronization of Aircraft, Installation and Adjustment. (Removal of cowling over motor. Breakdown and inspection of machine gun. Inspection of tube, wire assemblies, and impulse generator. Setting up of gun in motor cowling blast tubes. Rough sighting of gun. Adjustment of ammunition feed and chutes.)	5	1	27
1–255	1941	Aerial Bombs—Equipment for Loading Bombs. (Essential equipment used by Air Corps in preparing, transporting, and loading bombs into airplanes.)	2	1	16
1–256	1942	Aerial Bombs—Methods of Loading Bombs. (Prescribed methods of preparing aerial bombs for loading. Delivery of bombs to airplanes. Testing bombing mechanism. Engaging bombs on racks. Use of bomb trucks. Bomb slings and hoists. Final inspection of bombs, racks, and controls.)	2	1	18

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *1–258	1942	Identification of Aircraft—General Characteristics and Types of U. S. Military Airplanes. (Basic types of aircraft. Function and characteristics of each. Types shown: pursuit, observation, training, transport, bombardment. Speed, number of engines, armament, uses.)	1	1	8
*1–259	1941	Identification of Aircraft—Distinguishing Features of U. S. Military Airplanes. (Use of field glasses. Unique features of U. S. military planes which aid in identification. Details on shape and parts, as well as types.)	2	1	15
1–260	1942	Aircraft Machine Guns and Cannon—Caliber .50 Machine Gun—Stripping and Assembling. (Thoroughly comprehensible picture of mechanical operation of various parts, assemblies, subassemblies of caliber .50 machine gun.)	2	1	19
1–261	1942	Aircraft Machine Guns and Cannon—Caliber .50 Machine Gun—Operation. (Dissassembly and assembly of caliber .50 machine gun. Detail of bolt group, oil buffer group, breech assembly. Proper cleaning and oiling of entire gun.)	2	1	15

1–277	1942	Theory of Bombing. (Physical laws on which bombing theory is based. Computation of formulas determining point of release in bombing fixed and moving targets.)	2	1	19
1–285	1942	Hamilton Constant Speed Propeller—Theory and Operation. (Transmission shift, pitch positions, counterweight, oil governor, preflight inspection, take-off, cruising speed, and landing approach.)	2	1	12
1–286	1942	Hamilton Constant Speed Propeller—Removal and Disassembly. (Method of removal from plane. How to prevent damage to working parts. How to transport it to shop.)	3	1	21
1–287	1942	Hamilton Constant Speed Propeller—Servicing and Inspection. (Mechanical operations in servicing and inspection of propeller.)	3	1	21
1–288	1942	Hamilton Constant Speed Propeller—Reassembly and Adjustment. (Construction and step-by-step reassembly of Hamilton constant speed propeller.)	4	1	37
1–289	1942	Hamilton Constant Speed Propeller—Installation. (Shows in detail each step in installation.)	1	1	9
1–290	1942	Celestial Navigation—Location of Points on the Celestial Sphere. (Solar system, celestial sphere and interrelationships between celestial and terrestrial spheres. Location and relative positions of zephyr nadir, horizon altitude azimuth hour angle and sidereal hour angle.)	3	1	17
1–292	1942	Airplane Antennas—Types and Typical Installation. (Types of antenna. Strains imposed by vibrations and icing. Causes of failure through improper handling of wire at time of installation.)	3	1	23

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF [a]1–294	1941	Identification of Aircraft—Characteristics of Foreign Aircraft—German pursuits Me–109. (Title self-explanatory.)	1	1	8
1–305	1942	Airplane Hydraulic Brakes—Types, Construction, and Action. (Mechanical components of several types of airplane hydraulic brakes. Detailed assembly and action of brake.)	4	1	29
*1–306	1942	Airplane Hydraulic Brakes, Part III.—Brake Adjustment, Bendix Brakes. (Complete instructions for proper periodic inspections; removal, installation, adjustment of brake shoes; burnishing-in new lining; bleeding hydraulic brake system; causes and remedies of pedal trouble, dragging brakes.)	1	1	9
1–307	1942	Airplane Hydraulic Brakes—Brake Adjustment, Hayes and Goodyear Brakes. (Methods of checking, adjusting, and testing clearance on three types of brakes. Actual operations and advice on most efficient procedures.)	2	1	17
1–308	1942	Airplane Hydraulic Brakes. Part V.—Servicing the Brake Line. (Title self-explanatory.)	2	1	20

*1–309	1942	Airplane Hydraulic Brakes. Part VI.—Care and Maintenance of Hydraulic Brake Actuating Cylinders. Replacement and repair of brake actuating cylinders; maintenance and replacement of parts of single- and double-acting piston-type cylinder; annular piston of Disco type brakes; replacement of expander tubes in expander tube brakes.)	2	1	13
1–310	1941	Curtiss Electric Propeller—Removal and Disassembly. Part II. (Part of series covering servicing of P–40 airplane. Details of removal and disassembly of Curtiss electric propeller.)	1	1	10
1–311	1942	Aircraft Machine Guns and Cannons—37-mm Automatic Cannon. (Rate of fire and penetration; installation, stripping, and assembling; cleaning and oiling; precautions.)	3	1	31
1–312	1942	Airplane Structure. Part VII.—Static Testing. (Methods of testing static elements of aircraft. Location of elastic axis of wing, torsional testing of wing, and negative acceleration. Not designed for average Air Corps enlisted men.)	2	1	12
*1–313	1942	Physiology of High Altitude Flying. (Disadvantages and obstacles of high altitude flying; mechanical devices used to overcome these obstacles; physics of atmosphere, temperature, atmospheric pressure, partial pressure of oxygen and aeroembolism discussed in relation to overcoming problems they present.)	4	1	35
*1–316	1941	1820 Wright Engines—Preparation for Tear-down. (Title self-explanatory.)	1	1	8

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *1–317	1941	1820 Wright Engines—Preliminary Disassembly. (Title self-explanatory.)	2	1	14
1–323	1942	Airplane Structures—Manufacturing Methods. (Methods of airplane manufacture, including design, drafting, make-up construction, template lay-out, sheet metal lay-out, subassembly, final assembly.)	3	1	25
*1–326	1942	Aerial Navigation, Part II.—Dead Reckoning Procedure. (Preflight, preparation, take-off, flight, landing, completion of log chart.)	3	1	26
1–327	1942	Aerial Navigation—Radio Aids. (Radio aids, radio ranges, range stations. Zones "A" and "N." Radio beams, zones of silence. Station identification signals, range station markers, "Z" type markers, fantype markers. Adjusting flight to beam, weather reports, radio compass, radio direction finder. Common errors in range finding.)	4	1	29
1–328	1942	Aerial Navigation—Airways Flying. (Function of traffic control area, airway priorities, beacons and markers, rules for contact flight, traffic regulations for instrument flight.)	4	1	38

*1–329	1942	Aerial Navigation—Search and Interception. (Title self-explanatory.)	2	1	18
*1–330	1942	Aerial Navigation—Radius of Action. (Title self-explanatory.)	1	1	10
1–331	1942	The Automatic Pilot—Principles of Gyroscopic Flight Instruments. (Rigidity and application of precision and driving forces for gyroscopes. Rotary axis, driving power, maintenance, rigidity, caging mechanism and installation of directional gyroscope.)	1	1	8
1–332	1942	Gyroscopic Flight Instruments—The Gyro Horizon. (Principles of construction of gyroscopic artificial horizon.)	1	1	9
*1–373	1942	Identification of Aircraft—Focke-Wulf Kurrier FW 200. (Title self-explanatory.)	2	1	16
*1–400	1942	Tactics and Technique of Air Reconnaissance and Observation. (Classes of observation missions; types of aircraft used; employment of communication and photographic equipment; responsibilities of observer; importance of properly employed aerial observation.)	2	1	14
1–403	1942	Field Lighting Set, B–2—Use. (Principles involved, installation, application of B–2 light set in connection with blackout landings.)	1	1	7
1–404	1942	The Type B–2 Field Lighting Set. (Set designed for landing under night blackout conditions. Principles involved. Cable lay-out. Process of setting up set.)	3	1	24
*1–406	1942	Fighter Aviation in Air Defense—Observation, Control, and Interception. Detecting, control room, plotting, planning, interception of enemy aircraft.)	2	1	17

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF [a] 1–417	1942	Identification of Aircraft—Italian Bomber Cantiere Z–1007. (Title self-explanatory.)	1	1	8
[a] 1–418	1942	Identification of Aircraft — Wellington Bomber. (Title self-explanatory.)	1	1	9
[a] 1–419	1942	Identification of Aircraft—Bristol Beaufighter. (Title self-explanatory.)	1	1	6
[a] 1–420	1942	Identification of Aircraft—Manchester Bomber. (Title self-explanatory.)	1	1	4
1–421	1942	Identification of Aircraft—Japanese Navy Scouting Seaplane 95. (Title self-explanatory.)	1	1	7
1–422	1942	Identification of Aircraft—Japanese Navy Patrol Bomber 97. (Title self-explanatory.)	1	1	8
[a] 1–423	1942	Indentification of Aircraft—German FW 187. (Title self-explanatory.)	3	1	17
[a] 1–424	1942	Identification of Aircraft—Hurricane. (Title self-explanatory.)	1	1	6
[a] 1–425	1942	Identification of Aircraft—Japanese Biplanes, Navy Fighter 95 and Navy Torpedo Bomber 96. (Title self-explanatory.)	2	1	13
[a] 1–426	1942	Identification of Aircraft—Hampden Bomber. (Title self-explanatory.)	1	1	4

[a] 1-427	1942	Identification of Aircraft—Japanese Fighter Bombers, Seversky 98, Nakajima 98. (Title self-explanatory.)	1	1	10
[a] 1-428	1942	Identification of Aircraft—Heinkel 115. (Title self-explanatory.)	1	1	6
[a] 1-429	1942	Identification of Aircraft—Whitley Bomber. (Title self-explanatory.)	1	1	5
[a] 1-430	1942	Identification of Aircraft—Bristol Blenheim and Bristol Beaufort. (Title self-explanatory.)	1	1	7
[a] 1-431	1942	Identification of Aircraft—Japanese Medium Army Bomber 98. (Title self-explanatory.)	1	1	9
[a] 1-432	1942	Identification of Aircraft—German Pursuit Types HE 112 and HE 113. (Title self-explanatory.)	2	1	14
[a] 1-433	1942	Identification of Aircraft—Halifax Bomber. (Title self-explanatory.)	1	1	5
[a] 1-434	1942	Identification of Aircraft—German Bombers JU 87 and JU 88. (Title self-explanatory.)	1	1	9
[a] 1-435	1942	Identification of Aircraft—German Heinkel 111K MK Va. (Title self-explanatory.)	1	1	6
[a] 1-436	1942	Identification of Aircraft—Japanese Medium Bombers 96 and 97. (Title self-explanatory.)	2	1	16
[a] 1-437	1942	Identification of Aircraft—Japanese Army Light Bomber. (Title self-explanatory.)	1	1	9
[a] 1-438	1942	Identification of Aircraft—Spitfire. (Title self-explanatory.)	1	1	4
[a] 1-439	1942	Identification of Aircraft—Japanese Fighters 96 and 97. (Title self-explanatory.)	2	1	11
[a] 1-440	1942	Identification of Aircraft—German Messerschmitt ME 110. (Title self-explanatory.)	1	1	7
[a] 1-441	1942	Identification of Aircraft—German Dornier DO 215. (Title self-explanatory.)	1	1	9

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF [a] 1–442	1942	Identification of Aircraft—Italian Macchi 200. (Title self-explanatory.)	1	1	7
[a] 1–443	1942	Identification of Aircraft—German JU 52. (Title self-explanatory.)	1	1	5
[a] 1–444	1942	Identification of Aircraft—Stirling Bomber. (Title self-explanatory.)	1	1	4
[a] 1–445	1942	The 1820 Wright Engine—Removing Cylinder and Nose Section. (Step-by-step removal of cylinder and nose sections, safety precautions and tools for each operation.)	1	1	10
[a] 1–446	1942	The 1820 Wright Engine—Disassembling Power Section. (Removing generators and housing from power section of engine; front supercharge section and magnetos. Pressing out of main bearing assembly.)	2	1	15
[a] 1–447	1942	The 1820 Wright Engine—Disassembling Supercharger Section. (Proper tools, precautions against damaging important parts.)	2	1	18
[a] 1–448	1942	The 1820 Wright Engine—Disassembling the Nose. (Step-by-step operation of two mechanics in disassembling nose section.)	1	1	6

*1–449	1942	The 1820 Wright Engine—Disassembling Crankshaft Section. (Tools necessary and care exercised.)	1	1	9
1–450	1942	The 1820 Wright Engine—Cleaning Up. (Title self-explanatory.)	2	1	20
1–451	1942	Hamilton Hydromatic Propeller—Theory and Operation. (First of series, dealing with basic essentials.)	2	1	16
1–452	1942	Hamilton Hydromatic Propeller—Removal. (Steps in removal of propeller.)	1	1	10
1–453	1942	Hamilton Hydromatic Propeller—Servicing. (Steps in washing and testing distributor valve, magnetic inspection of ferrous parts and micrometer testing.)	1	1	8
1–454	1942	Hamilton Hydromatic Propeller—Reassembly and Adjustment. (Title self-explanatory.)	5	2	47
1–455	1942	Hamilton Hydromatic Propeller—Installation. (Title self-explanatory.)	2	1	13
*1–456	1942	Curtiss Electric Propeller—Disassembly of the Power Unit. (Complete disassembly of unit, hub and blades, governor.)	1	1	26
1–457	1942	Curtiss Electric Propeller—Disassembling Hub and Blade. (Parts of hub—sockets, slip ring assembly, blades, nut, bearing, stack, and gear.)	2	1	14
1–458	1942	Curtiss Electric Propeller—Disassembling Governor. (Parts of governor—oil servo mechanism, oil pump and relief valve, flyweights, switch.)	2	1	16
1–459	1942	Curtiss Electric Propeller—Reassembling Power Unit. (Title self-explanatory.)	4	1	35

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 1–460	1942	Curtiss Electric Propeller—Reassembling Hub and Blades. (Description of hub—sockets, slip ring assembly, rod connectors, blades—blade nut, bearing stack, blade gear.)	3	1	22
1–461	1942	Curtiss Electric Propeller—Reassembling the Propeller. (Title self-explanatory.)	3	1	23
1–462	1942	Curtiss Electric Propeller—Balancing. (Balancing of hub assembly and power unit.)	2	1	17
*1–463	1942	Curtiss Electric Propeller—Theory and Operation. (Theories and principles of operation in detail; explanation and demonstration of working parts; actual operation; regulating speeds, multi-engine installations.)	4	1	30
1–464	1942	Curtiss Electric Propeller—Installation. (Title self-explanatory.)	2	1	12
1–468	1942	Hamilton Hydromatic Propeller—Disassembly. (Title self-explanatory.)	3	1	26
1–470	1942	Vacuum Tubes. Part I.—Electron Theory and the Diode Tube. (Electron theory; use and function of vacuum tubes; use of diode and duo diode as rectifier.)	2	1	14

1–471	1942	Vacuum Tubes. Part II.—The Triode and Multipurpose Tubes. (Principles, structure, use, function.)	2	1	14
1–472	1942	Radio Receivers. Part I.—Principles and Typical Circuits. (Title self-explanatory.)	2	1	17
1–474	1942	Radio Antennas—Creation and Behavior of Radio Waves. (Electric and magnetic fields, generation of electromagnetic waves, behavior, ground wave, reflection and refraction, ionosphere, causes of fading.)	2	1	11
1–475	1942	Radio Antennae—Fundamentals. (Importance and use of traveling waves; standing waves; current and voltage distribution, feeding; harmonics; inductance and capacity of halfwaves; trailing and receiving antennae.)	2	1	13
1–476	1942	Radio Transmitters—Principles and Typical Circuits. (Fundamentals of radio frequency oscillator: inductance, circuits, amplifier tube, feed back, function of the grid, power sources.)	2	1	18
*1–479	1942	Incendiary Bombs—Thermit and Magnesium. (Purpose, destructive ability, methods for control, preventive measures from standpoint of individual.)	2	1	15
1–482	1942	Aircraft Machine Guns and Cannon—20-mm Aircraft Gun—Stripping and Assembling. (Daily process of disassembling, assembling. Driving spring and rear buffer, breechblock, magazine slide, trigger and housing, sear block, muzzle brake, recoil adapter, gas cylinder.)	4	1	37
1–483	1942	Aircraft Machine Guns and Cannon—Care and Cleaning. (Importance of details in care and cleaning.)	2	1	25

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of rees		Running time (minutes)
			35-mm	16-mm	
TF *1-487	1942	Oxygen Equipment—Types and Use at High Altitudes. (Identification of masks; operation of equipment; cleaning oxygen masks; types of oxygen installations; checking masks and regulators.)	2	1	23
*1-490	1942	Take-offs and Landing. Part I. (Basic principles, technique and proper sequences of operation for successful take-off.)	1	1	9
*1-492	1942	Formation Flying (Basic). (Importance of formation flying as a military maneuver; illustrates and explains, through animated diagrams, numbering and positioning of airplanes in vee, echeloned to right, echeloned to left; signaling procedure; dangers of wash; duties of leader; turning in formation; formation take-offs, landings.)	1	1	8
*1-494	1942	Gentle, Medium, Steep, Climbing, and Gliding Turns. (Methods of making gentle turns; medium turns, cause and correction of skids and slips; climbing turns, effect of torque; gliding turns with power on, power off, stalling speed, steep turns; importance of practice, coordination and accuracy.)	1	1	11

*1–495	1942	Chandelles and Lazy Eights. (Composite training maneuver combining several basic maneuvers: shallow dive, climbing turn, steep turn, recovery at materially reduced speed, problems in orientation.)	1	1	7
*1–499	1942	Airplane Hydraulic Brakes—Brake Adjustment, Bendix Duo Servo. (Minor and major adjustments of Bendix Duo Servo brakes. Particular attention to checking clearances.)	2	1	16
1–500	1942	Hydraulic Brakes—Disassembly and Reassembly—Hayes Brakes. (Title self-explanatory.)	2	1	20
1–502	1942	Airplane Hydraulic Brakes—Disassembly and Reassembly—Goodyear Disk Brake. (Title self-explanatory.)	2	1	15
1–503	1942	Airplane Hydraulic Brakes—Disassembly and Reassembly—Hayes Expander Type Brake. (Title self-explanatory.)	1	1	11
*1–505	1942	Plan Your Practice Solos. (Stresses importance of not wasting practice solo time, showing and analyzing examples of wasted practice, and proper method of planning.)	2	1	13
1–507	1942	Automatic Pilot A–2—Basic Principles. (Functions and use, control units, principles of operation, function of parts, systems, adjustment and connections.)	1	1	10
1–508	1942	Automatic Pilot A–2. Part III.—Mechanics. (Principles and functions of four control units. Hydraulic and vacuum systems, auxiliary parts.)	2	1	18
*1–509	1942	Automatic Pilot. Part IV.—Operation of the A–2 Automatic Pilot. (Preflight checks, take-off, normal automatic flight procedure, turns and spirals, emergency procedures.)	2	1	12

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 1–511	1942	Alighting Gear P–38. Part I.—Removal of Nose Alighting Gear. (Detailed step-by-step instruction for raising nose wheel off ground and removing gear.)	1	1	6
1–512	1942	Alighting Gear P–38. Part II.—Installation of Nose Alighting Gear. (Bracing of gear, raising assembly, insertion of fulcrum pin, adjustment of position indicator links, checking clearance, lowering nose.)	1	1	6
1–513	1942	Alighting Gear P–38. Part III.—Removal of Main Alighting Gear. (Detailed instructions on wing jacking, safety precautions; roping or using cribbing; disconnecting fulcrum, hydraulic lines, and position indicator links; lowering alighting gear assembly.)	1	1	8
1–514	1942	Alighting Gear P–38. Part IV.—Installation of Main Alighting Gear. (Detailed analysis of installation—raising gear, insertion of fulcrum pin, adjusting position indicator links, checking and connecting brake system.)	1	1	5

1–515	1942	Alighting Gear P–38. Part V.—Inspection of Alighting Gear. (Procedure using Inspection Form 41A.)	1	1	10
1–516	1942	Alighting Gear P–38. Part VI.—Maintenance of Alighting Gear. (Detailed step-by-step instructions for maintenance as performed on field by first echelon.)	2	1	13
1–517	1942	The Sensitive Altimeter. Part I.—General Use. (Reading, altimeter as a pressure instrument, "standard atmosphere," effect of pressure variations, zero setting system, scale correction card, effect of temperature variations, use on typical missions.)	2	1	18
1–519	1942	Alighting Gear P–38. Part VII.—Assembly of Alighting Gear Shock Strut. (Retracting action and steps in assembling Oleo strut from complete break-down of parts.)	3	1	22
1–522	1942	Identification of Aircraft—2-engine Fighter Quiz. (Title self-explanatory.)	1	1	6
*1–528	1942	Instrument Flying and Landing. Part III.—Climbs and Glides. (Proper execution during instrument flight; technique of handling throttle and elevators, distinct functions of each; function of rate-of-climb or vertical speed indicator; instrument readings.)	1	1	6
*1–531	1942	Instrument Flying and Landing—Air Forces Landing System. (Illustrates use of radio compass, runway localizer, altimeter, directional gyro, artificial horizon, and marker beacon receptor in blind flying.)	2	1	11

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *1-532	1942	Preflight Inspection of B–17E. Part I.—Crew Chief. (Complete routine to be followed by crew chief and assistants, under three headings: exterior inspection, interior inspection, engine check.)	4	1	41
1-533	1942	Preflight Inspection of B–17E. Part II.—Radio Mechanic. (Routine preflight inspection of radio equipment: antennae, liaison set, command set, radio compass, interphone system.)	3	1	30
1-534	1942	Preflight Inspection of B–17E. Armorer. (Complete routine by mechanics making preflight inspection of side waist, tail, nose, lower ball turret, upper local turret, bomb bay and controls.)	4	1	31
1-536	1942	Parachutes—Construction and Types. (History and uses of parachutes; modern use to drop soldiers and equipment.)	1	1	10
1-537	1942	Folding and Packing the Service Seat Parachute. (Construction of parachute; illustrations of component parts; types of packs.)	1	1	17

1–538	1942	Parachutes—Folding and Packing the Form-fitting Back Parachute. (Routine and complete inspection, repair and overhaul, testing, cleaning, storage, instructions for using parachute.)	1	1	6
1–539	1942	Parachutes—Folding and Packing the Training Double Parachute. (Detailed adjustment of seat type parachute, double type, T–3; back type, B–7; and attachable, A–29.)	1	1	12
1–540	1942	Parachutes—Folding and Packing the Attachable Parachute. (Title self-explanatory.)	1	1	8
*1–541	1942	Parachutes. Part VI.—Adjustment of the Harness. (Complete description of correct folding of "TR" and "TM" (chest and back parachutes). Precautions to be taken.)	2	1	16
*1–542	1942	Parachutes—Maintenance. (Details of folding and packing operations of attachable A–2 parachute.)	2	1	17
*1–544	1942	Celestial Navigation—Bearings, Single Line of Position and Fixes. (Determining position; use of Ageton tables, form, and star of altitude curves; computation of lines of position.)	2	2	19
*1–545	1942	Celestial Navigation—Latitude by Polaris. (Relationship between latitude and elevated pole, position and diurnal path of Polaris and reduction of altitude of elevated pole; methods of solution by mathematical formula and use of tables of altitude of Polaris.)	1	1	9
*1–546	1942	Celestial Navigation. Part III.—Time. (Defines and explains time elements used in solving practical problems.)	1	1	10

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *1–547	1942	Celestial Navigation—Constellations and Navigational Stars. (Title self-explanatory.)	2	1	12
1–550	1942	Celestial Navigation. Part IV.—Solution of Illustrative Problems. (Problems in preparation for flight, procedure in airplane, altering course, arriving at destination.)	4	1	32
1–566	1942	Servicing the Aviation Spark Plug. (Construction, spindle or core electrode, washer and installation, mica barrel, complete assembling of spark plug. Example of ship reporting for service and routine checking.)	2	1	23
1–619	1942	Identification of U. S. Army Aircraft—B–25 Medium Bomber. (Title self-explanatory.)	1	1	10
1–672	1942	WEFT System of Aircraft Identification. Part I.—Basic Characteristics. (Importance of aircraft identification; main variations in wings, engines, fuselages, tail assemblies. Navy training film converted into Army training film.)	1	1	13

1–673	1942	WEFT System of Aircraft Identification. Part II.—Special Characteristics. (Characteristics other than basic. Animation, models, straight photography. Navy training film converted into Army training film.)	1	1	10
1–674	1942	Interrogation of Prisoners—Aviation. (German methods of obtaining information from prisoners; correct information to be revealed by all prisoners. British training film converted into Army training film.)	2	1	72
*1–701	1942	The Allison Engine. Part I.—Introduction and Characteristics, V–1710 Engine. (General features and design characteristics of Allison V–1710 engine and six major subassemblies into which engine is divided during disassembling procedure.)	1	1	8
*1–702	1942	The Allison Engine. Part II.—V–1710 Engine, Unpacking. (Removing shipping crate from engine, transferring engine from shipping crate to overhaul stand; accessories removed, engine made ready for major overhaul job.)	3	1	25
*1–703	1942	The Allison Engine. Part V*a*.—Removing of Reduction Gears, V–1710 Engine, Type "F." (Essential parts of "F" type reduction gear assembly; location of assembly, all operations necessary in removing disassembly of unit.)	3	1	20
*1–704	1942	The Allison Engine.—Disassembly of Cylinder Blocks on V–1710 Engine. (Procedure by which cylinder blocks are removed and disassembled into smallest practical parts; removal and disassembly of rocker arms, cam shaft, valves.)	1	1	14

Sound training films—Continued

	Serial No.	Calendar year released	Subject	Number of reels: 35-mm	Number of reels: 16-mm	Running time (minutes)
TF	*1–705	1942	The Allison Engine. Part V*a*.—Disassembly of Reduction Gears, V–1710 Type "F" Engine. (Essential parts of "F" type reduction gear assembly; removing and disassembling.)	2	1	18
	*1–706	1942	The Allison Engine. Part V*b*.—Disassembly of Reduction Gears, V–1710 Type "E" Engine. (Essential parts of "E" type reduction gear assembly; location of assembly; operations necessary in disassembling.)	2	1	20
	*1–707	1942	The Allison Engine V–1710.—Disassembly of Accessory Housing. (Operations covering removal of accessory housing, and complete disassembly.)	4	1	33
	*1–708	1942	The Allison Engine.—Disassembly of Crankshaft Unit. (Parts making up unit; removal, disassembly.)	2	1	17
	*1–710	1942	Allison Engine. Part IX*a*.—Reassembling the Reduction Gears, V–1710, Type "F" Engine. (Step-by-step assembly and installation of parts and units comprising both front and rear cases of reduction gears; how cases are joined together and prepared for installation on "F" type engine.)	1	1	30

*1–711	1942	The Allison Engine—Reassembling the Reduction Gears, V–1710 "E" Engine. (How parts and units comprising both front and rear cases of reduction gear housing are reassembled; how two cases are attached to each other and prepared for installation on "E" type engine.)	1	1	25
*1–718	1942	Communication Facilities of the O–52 Airplane. (Characteristics of BC–307B transmitter, interpolation of settings for various frequencies; operation of BC–224–B receiver; establishment of two-way communication.)	3	1	27
*1–728	1942	Preparation of Aircraft Engines for Storage Preservation. (Routine for dehydrating and sealing aircraft engines to protect them from rust and corrosion while in storage and transit. Demonstrated on Pratt and Whitney 1830 engine.)			
*1–729	1942	Preparation of Aircraft Engines for Storage—Retreatment and Preparation for Service. (Time interval and method of inspecting engines in storage; opening and represerving of engines which require further treatment; how stored engine is prepared for service.)			
*1–731	1942	Disassembly of P–40. Part I.—Engine Cowling and Keel Fairing. (Removal of side, top, and blister cowls; cowl flap doors; front bottom cowl; rear bottom cowl; cowl flaps and supports; cooler exit duct and radiator shutter, and three sections of keel fairing.)	1	1	10

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *1–732	1942	Disassembly of P–40. Part II.—Oil and Coolant Radiators. (Step-by-step removal of the three radiators; one oil and two coolant, located below the engine.)	1	1	7
*1–733	1942	Disassembly of P–40. Part III.—Movable Control Surfaces. (How to remove trim tabs, rudder, elevators, ailerons, and flaps.)	1	1	11
*1–734	1942	Disassembly of P–40. Part IV*a*.—Fixed Tail Surfaces. (Removal of five sections of empennage fairing, vertical fin (containing tail navigation light), and horizontal stabilizer.)	1	1	5
*1–735	1942	Disassembly of P–40. Part V.—Radio Equipment. (How antenna is detached from wing, fuselage, and tail; disconnecting and removing radio unit, consisting of battery, receiver, dynamotor, transmitter, and antenna current indicator.)	1	1	7

*1–736	1942	Disassembly of P–40. Part VI.—Separation of Fuselage and Wings. (Removal of wing fairing; placing airplane on stand; disconnections and removals in cockpit area, at leading edge, underside, and top side of wing; hoisting fuselage clear of wing; stands, stand fittings, slings, and hoists.)	2	1	19
*1–737	1942	Disassembly of P–40. Part VII.—Fuel Tanks. (Removal of belly, fuselage and wing tanks; details of all necessary disconnects in cockpit and wings.)	2	1	15
*1–738	1942	Disassembly of P–40—Landing Gear. (Removal of tail wheel assembly and main landing gear.)	2	1	13
*1–739	1942	Disassembly of P–40. Part IX.—Armament. (Removal of ammunition boxes, and one of six Browning cal. .50 machine guns located in wings; also, one of wing bomb racks.)	1	1	8
*1–740	1942	Disassembly of P–40—Wing Panels. (Step-by-step, removing pitot tube, wing tip, connecting parts of both sections of detached wing panel.)	2	1	14
*1–741	1942	Disassembly of P–40—Allison Engine. (Demonstrates in detail complete disassembly of the Allison engine.)	2	1	15
*1–742	1942	Disassembly of P–40. Part XII.—Canopy and Windshield. (Disconnecting canopy and windshield from fuselages; principles of canopy's operation; further disassembly of bulletproof glass windshield.)	1	1	8
*1–743	1942	Disassembly of P–40—Instrument and Switch Panels. (Removal of gun sight, instrument panel, hydraulic gun charger panel, breaker switch panel.)	1	1	7

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *1–744	1942	Disassembly of P–40—De-icing, Coolant, and Oil Tanks. (Steps in disconnecting and removing windshield de-icer spray tank, coolant expansion tank, protective armor, oil supply tank.)	1	1	8
*1–745	1942	Disassembly of P–40—Miscellaneous Equipment. (Special tools used in disassembly of P–40 airplane; removal of landing gear, warning horn, oxygen supply tank, hydraulic pump, hydraulic reserve tank, fuselage flare gun.)	1	1	9
*1–746	1942	Assembly of the P–40—Allison Engine (including bomb racks). (Demonstrates complete assembly for Allison engine.)	2	1	15
*1–747	1942	Assembly of the P–40—Rolls Royce Merlin Engine —Aircraft Instruments. (Demonstrates complete disassembly of Rolls Royce Merlin engine.)	2	1	12
*1–778	1942	Formation Procedures for Bad Weather Areas. Part I.—For Bombers. (Title self-explanatory.)	1	1	10

*1–810	1942	Airplane Turrets. Part I.—Bendix Upper Turrets, Operation and Servicing. (Bendix Amplidyne model upper turret, type A–9; how principal parts function; gunner's preflight inspection; operation of controls; gunner's after-flight servicing, checking.)	2	1	17
*1–811	1942	Airplane Turrets. Part II.—Bendix Lower Turrets. Operation and Servicing. (Bendix Amplidyne model lower turret, type A–10; how principal parts function; gunner's preflight inspection; operation of controls; emergency manual operation; gunner's after-flight servicing, checking.)	2	1	19
*1–813	1942	Airplane Turrets—Martin Upper Turrets, Servicing and Operation. (Structure and function of parts including ring gear, gun cradles, motors, azimuth and elevation amplidynes, electrical systems, interrupters; detailed operation of turret.)	3	1	21
*1–817	1942	Airplane Turrets—Sperry Upper Local Turret, Operation and Servicing. (Function of turret and its computing sight; preflight and after-flight servicing; operation; precautionary measures emphasized.)	-----	-----	-----
*1–830	1942	Airplane Gunsights—Collimator Sights, Principles and Operation. (Title self-explanatory.)	1	1	5
*1–831	1942	Airplane Gunsights—Collimator Sights. Part II.—Maintenance and Adjustment. (Daily flight inspection; disassembly and reassembly for replacement of parts; lens adjustment of N–series noncomputing sights.)	2	1	20

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *1–838	1942	Airplane Fixed Guns—Removal, Servicing and Installation in the P–38. (Armament of P–38; dismounting and assembly of both machine guns and cannon.)	2	1	19
*1–876	1942	Servicing the P–39—Wheels and Tires. (Removal, servicing, and installation of both main and nose wheels and tires.)	1	1	8
*1–877	1942	Servicing the P–39—Removal and installation of Main Wheel Spindle. (Removal of spindle, and installation after complete servicing.)	1	1	10
*1–878	1942	Servicing the P–39—Removal and Installation of Landing Gear Struts. (Removal of struts, and installation after servicing.)	1	1	7
*1–900	1942	Identification of U. S. Army Aircraft—B17FW. (Features of wings, engines, fuselage, tail (WEFT system) used in identification of B 17 FW.)	1	1	9
*1–901	1942	Identification of U. S. Army Aircraft—B 24D. (Distinguishing features of B 24D, WEFT system.)	1	1	9
*1–902	1942	Identification of U. S. Army Aircraft—A 20B. (Distinguishing features of A 20B, WEFT system.)	1	1	10

*1–903	1942	Identification of United States Army Aircraft—A–28 Lockheed Light Bomber. (Title self-explanatory.)	1	1	8
*1–904	1942	Identification of U. S. Army Aircraft—A 24. (Identifying characteristics of A 24, WEFT system.)	1	1	9
*1–905	1942	Identification of U. S. Army Aircraft—A 31. (Features of wing, engine, fuselage, tail identification of A 31, WEFT system.)			
*1–906	1942	Identification of U. S. Army Aircraft—P–38E Lockheed (2-engine) Pursuit. (Title self-explanatory.)	1	1	9
*1–907	1942	Identification of U. S. Army Aircraft—C–54 (DC–4) Douglas 4-engine Heavy Transport. (Title self-explanatory.)	1	1	9
*1–908	1942	Identification of U. S. Army Aircraft—C–47 and C–53 Douglas Medium Bomber. (Title self-explanatory.)	1	1	9
*1–909	1942	Identification of U. S. Army Aircraft—C–60A (2-engine) Medium Transport. (Title self-explanatory.)	1	1	8
*1–910	1942	Identification of U. S. Army Aircraft—P51. (WEFT system—wings, engine, fuselage, tail—distinguishing features of P51.			
*1–912	1942	Identification of U. S, Army Aircraft—P–39 L. Bell Pursuit. (Title self-explanatory.)	1	1	9
*1–916	1942	Identification of U. S. Army Aircraft—C–45–B Beech Light (2-engine) Transport. (Title self-explanatory.)	1	1	11

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 2-14	1934	Cavalry Command Crossing an Unfordable Stream. (Training cavalry command for crossing unfordable stream; crossing animals and men; ferrying wagons and loads; selection of crossing points.)	2	1	16
2-17	1935	Cavalry Rifle Platoon from Mounted to Dismounted Action. (Securing led horses, mobile and immobile; employment of platoon from mounted to dismounted action.)	1	1	12
2-18	1935	Tactical Employment of Caliber .50 Machine Gun by Cavalry. (Characteristics of caliber .50 machine gun and tactical employment.)	1	1	8
* 2-37	1939	Roles, Capabilities, and Limitations of Combat Vehicles of Mechanized Cavalry. (Operation of motorcycles, scout cars, armored cars, combat cars, half-track personnel carriers, mortar carriers. Methods of refueling and maintenance of vehicles on march and in bivouac.)	5	1	45

2–252	1941	Light Machine-gun Platoon, Cavalry Rifle Troop—Organization and Equipment of Platoon and Squad Drill. (Motion pictures and animated diagrams demonstrate organization of platoon, equipment, basis of squad drill.)	1	1	10
2–253	1941	Light Machine-gun Platoon, Cavalry Rifle Troop—Platoon Drill. (Companion piece to above. Platoon drill.)	2	1	20
* 2–254	1942	Light Machine-gun Platoon, Cavalry Rifle Troop. Part II.—Employment. (Cavalry rifle troop operating alone contacts enemy forces in desert terrain. Light machine-gun platoon covers enemy positions while two rifle platoons execute flanking movement.)	2	1	15
2–600	1942	Horsemanship. Part I.—Saddling and Bridling. (First of a projected series of six. Parts of saddle and bridle, detailed instructions on blanketing, saddling, bridling.)	3	1	24
2–601	1942	Horsemanship. Part II.—Mounting and the Military Seat. (Actions and positions, effects of poor seat on both horse and rider.)	3	1	30
2–602	1942	Horsemanship. Part III.—Aids and Gaits. (Rates and types of movement of horse (gaits) and means used to control horse and obtain these movements (aids.)	4	2	39
2–603	1942	Horsemanship. Part IV.—Suppling Exercises. Exercises to supple muscles and parts of body most used in riding—neck, shoulders, loins, hip joints, knees, ankles.)	2	1	16

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 2-604	1942	Horsemanship. Part V.—Jumping and Cross-country Riding. (Bold riding as essential to successful cavalry operations; practicing balance, chute ditches, big jumps, cross-country equitation.)	3	1	32
*2-943	1942	Pack Transportation. Part I.—Selection of the Animal. (Selecting cavalry pack horse; requirements regarding height, weight, and build of horse; illustration and explanation of favorable and unfavorable points or characteristics.)	2	1	18
*2-944	1942	Pack Transportation. Part II.—The Pack Saddle. (Illustration and explanation of principal parts of cavalry pack saddle; type of saddle used; importance of proper placement and adjustment; correct saddling procedure.)	2	1	17
*2-945	1942	Pack Transportation. Part III.—The Cargo Saddle. (Type of saddle used for various cargo lash loads; correct placement and adjustment; method of loading, balancing, securing supplies and weapons.)	2	1	21

*2–946	1942	Pack Transportation. Part IV.—Field Adjustment and Carrying of Equipment. (Fundamentals of cargo and cavalry pack transportation; types of hanger loads and lash loads; loading supplies and ammunition in hanger; equipment used for lash loads; use of manta in wrapping supplies; placing and securing load.)	2	1	17
*2–982	1942	Cavalry Rifle Platoon—Organization, Equipment, and Drill. (Title self-explanatory.)	2	1	25
[a] 3–10	1933	Tactical Employment of Chemical Troops in an Attack. (Chemical company in support of division in attack. Use of smoke in screening operations of infantry.)	2	1	20
[a] 3–216	1941	Adjustment of the Service Gas Mask. (Correct manner of adjustment and use of service gas mask.)	2	1	17
[a] 3–217	1941	Inspection of the Service Gas Mask. (Personal inspection, care, minor repairs, disinfection.)	1	1	9
[a] 3–218	1941	Adjustment of the Training Gas Mask. (Correct manner of adjustment and use of training gas mask.)	2	1	17
[a] 3–219	1941	Inspection of the Training Gas Mask. (Personal inspection, care, minor repairs, and disinfection.)	1	1	8
3–591	1942	Horse Gas Masks M4 and M5. (Adjusting both types of mask and fitting horse mask for first time. Removal of mask and placement in carrier. Inspection by troop commander. Scenes of cavalry and artillery in full equipment, day and night.)	3	1	20
3–650	1942	Collective Chemical Protection. (Protection of troops by use of gas shelters; duties of gas sentinels.)	1	1	10

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF [a] *3–667	1942	Decontamination Procedures. Part I.—Personnel and Areas. (Duties of decontamination squad in treating contaminated areas through which troop movement is necessary; includes cement highway, care of clothing, personal decontamination, decontamination of material.)	2	1	19
[a] *3–687	1942	Decontamination Procedure. Part II.—Equipment. (Duties of decontamination squads of 1st, 2d, 3d, and 4th echelons in decontaminating trucks, tanks, weapons, and other field equipment.)	1	1	11
[a] *3–689	1942	Defense Against Chemical Warfare. (Precautions necessary for safe handling of chemical agencies; necessity for wearing gas masks at all times. Illustrates common mistakes made in handling mask by depicting episodes from last war.)	1	1	10
4–9	1932	Tactical Employment of a Battery of 155-mm Guns, Tractor-drawn (CA). (Gun battery, in route column, going into position, and firing at sea target. Functions of position finding and fire-control systems.)	2	1	16

4–101	1939	Employment and Operation of Submarine Battery. (Organization and equipment of submarine mine battery. Loading of mine planter. Procedure in laying and firing submarine mines.)	4	2	38
4–156	1941	Railway Artillery—Emplacement and Firing of 12-inch Mortar and 8-inch Gun. (Loading and firing 12-inch mortar and 8-inch gun used by railway artillery.)	2	1	19
4–185	1942	Antiaircraft 37-mm Gun Battery. Part I.—Organization, Movement on the Road, Movement into Position. (Organization and transportation equipment of battery. Duties of each man. Order of vehicular progress. Battery commander selects battery position and leads guns to sites with their integral equipment and teams.)	2	1	14
4–186	1942	Antiaircraft 37-mm Gun Battery. Part II.—Emplacement of the Gun and Preparation of the Gun for Firing. (Individual duties of each man, emphasizing place and particular job in team. Coordinated precision of well trained and integrated team.)	3	1	22
4–187	1942	Antiaircraft 37-mm Gun Battery. Part III.—Fire-control Equipment, Firing. (Four phases of servicing of piece, demonstrating each man's job, by the numbers, before showing team in simultaneous operation.)	4	1	21
4–188	1941	37-mm Antiaircraft Gun Battery—Care of Gun After Firing. (Cleaning piece, checking adjustments, lubrication after firing.)	3	1	29

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 4–189	1941	37-mm Antiaircraft Gun Battery—Movement out of Position—March Order. (Dismounting gun, placing it in condition for travel; followed by march order.)	2	1	20
4–190	1942	Antiaircraft Machine-gun Battery—Mission, Care and Adjustment of the Gun and Mount, Handling of Ammunition. (Mission of caliber .50 antiaircraft machine-gun battery. Care and adjustment of gun and mount. Procedure of handling ammunition. Organization of battery. Duties of each man. Assembly and disassembly of gun. Recoil and cooling systems.)	4	1	33
4–191	1942	Antiaircraft Machine-gun Battery—Preparation for Movement, Action on the Road, Emplacement of Gun, Selection of Position. (Battery commander's orders, reconnaissance, and order of march. Duties of each man during march. Engagement of target during march. Going into bivouac. Selection of position and emplacement of gun.)	3	1	28

4–192	1941	Antiaircraft Machine-gun Battery—Fire-control Equipment, Firing. (Theory and technique of fire control and firing of antiaircraft machine-gun battery.)	2	1	15
4–193	1941	Antiaircraft Machine-gun Battery—Care and Maintenance of Gun and Mount. (Operating of antiaircraft machine-gun battery team in care, lubrication, cleaning, and maintenance of cal. .50 machine gun.)	2	1	21
4–194	1941	Antiaircraft Machine-gun Battery—Movement Out of Position; March Orders. (Striking of machine-gun emplacement and battery's movement out of position.)	2	1	12
4–197	1941	Antiaircraft Searchlight Battery—Preparation for Action; Drill of the Searchlight Section. (Drill and coordination of searchlight battery team.)	2	1	16
4–198	1941	Antiaircraft Searchlight Battery. Part IV.—Movement Out of Position; March Order. (Final part of series shows displacement of equipment, movement, march order.)	2	1	17
4–240	1942	Three-inch Antiaircraft Artillery Gun Battery—Section 1.—Movement Into Position, Emplacement of 3-inch Gun M3 on M2A2 Mount. (Organization of gun battery, personnel of gun section. Equipment, capabilities and characteristics of prime mover, gun mount cradle, traversing and elevating equipment, various subassemblies. Ammunition and emplacement of gun on M2A2 mount.)	2	1	19

Sound training films —Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 4–241	1942	Three-inch Antiaircraft Artillery Gun Battery. Section 2.—Preparation of M3 Gun for Firing. (Detailed movement of each man in gun battery; teamwork necessary.)	3	1	30
4–242	1942	Three-inch Antiaircraft Artillery Gun Battery. Section 3.—Fire-control Equipment. (Detailed operation.)	4	1	38
4–243	1942	Three-inch Antiaircraft Artillery Gun Battery. Section 4.—Drill of Gun Section, Service of Piece. (Drill in height and range finding; servicing of piece.)	2	1	18
4–244	1942	Three-inch Antiaircraft Artillery Gun Battery. Section 5.—Movement out of Position, March Order. (Last of series: displacement of gun, preparation for travel, movement out of position, march order.)	4	1	35
4–269	1941	37-mm Antiaircraft Gun M1A2 on M3 Mount—Emplacement of Gun and March Order. (Mechanics of emplacement; march order; techniques on soft or boggy ground.)	2	1	13

4–278	1942	Antiaircraft Automatic Weapons Trainer. (Detailed construction; drill of crew. General principles of theory and operation of equipment engaging aircraft targets.)	2	1	16
4–320	1942	90-mm Antiaircraft Gun—Emplacement and March Order. (Teamwork necessary to emplace gun, from selection and preparation of site, through all mechanical steps to finish when gun is ready for action.)	4	1	23
4–374	1942	Antiaircraft Searchlight Battery, Care and Maintenance of Searchlight Equipment—Control Station, Sound Locator, Power Plant, and Cable. (Title self-explanatory.)	3	1	27
4–380	1942	Antiaircraft Searchlight Battery, Care and Maintenance of Searchlight Equipment—The Battery. (Operator cleans component parts of antiaircraft searchlight, using proper cleansing agents in correct manner.)	4	1	24
4–398	1942	Antiaircraft Searchlight Battery—Searchlight Section Equipped with M1 Trailers. Part I.—Preparation for Action. (Items of equipment; unloading of trucks and trailers. Detailed operations in setting up sound locator, searchlight, control station, and power plant.)	2	1	19
4–399	1942	Antiaircraft Searchlight Battery—The Searchlight Sections Equipped with M1 Trailers. Part II.—March Order. (Operations to move searchlight equipment out of position. Disassembling control station, power plant, sound locator, searchlight. Loading searchlight into trailer. Connecting trailer to truck. Loading.)	2	1	18

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 4–585	1942	Height Finder M1—Use. (Use, importance, and assembly of tripod, cradle, and height finder in preparation for action.)	2	1	16
4–586	1942	Height Finder. Part II.—Adjustment Prior to Operations. (Duties of observer, range altitude setter, and elevation tracker in assembly and ascertaining correct orientations before instrument is used; means of check testing.)	4	1	34
4–587	1942	Height Finder M1—Drill. (Drill to keep observers in training; training of replacements; determining of individual observer's calibration corrections. Devised for use of more than one crew at a time.)	1	1	10
4–588	1942	Height Finder M1—March Order. (Title self-explanatory.)	1	1	10
4–589	1942	Height Finder M1 and M2. Part V.—Care and Maintenance. (Title self-explanatory.)	5	2	47
*4–605	1942	Radio Set SCR–268. Part I.—Assembly of Mount. (Purpose of this radio; functions; principles of operation; proper placement of equipment; means of transportation; functions of crew in assembly of mount.)	5	2	55

*4–606	1942	Radio Set SCR–268.— Disassembly of Mount and packing of Trailers. Duties of disassembly crew in disassembly of mount; packing equipment for army transportation; proper place for equipment in power trailer or mount trailer.)	4	2	42
*4–607	1942	Radio Set SCR–268. Part III.—Placing in Operation. (Coordination necessary for successful operation; specific duties of each member of the crew in inspection of equipment before, during, and after operation.)	1	1	16
*4–608	1942	Radio Set SCR–268. Part IV.—Tracking Targets. (Methods of locating target; determining range and altitude; operation of the oscilloscope.)	1	1	11
*4–610	1942	Radio Set SCR–268. Part VI.—Synchronization with the Searchlight. (Title self-explanatory.)	2	1	20
*4–631	1942	12-inch Gun Battery, Barbette Carriage. Part II.—Breech Mechanisms. (Firing mechanism in relation to both electric and manual switch; integrate parts; working of parts; use, construction, and servicing of obturator; safety tests; precautions in regard to electric and manual switch.)	2	1	18
*4–634	1942	12-inch Gun Battery, Barbette Carriage. Part V.—Safety Precautions. (Title self-explanatory.)	2	1	12
*4–640	1942	Care and Maintenance of the 90-mm Antiaircraft Gun. Part I.—Routine Maintenance. (Restricted Title.) (Title self-explanatory.)	2	1	18
*4–641	1942	Care and Maintenance of the 90-mm Antiaircraft Gun. Part II.—Regular Inspection. (Restricted Title.) (Title self-explanatory.)	2	1	19

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *4–647	1942	Mechanisms of M5 and M6 Directors. (Title self-explanatory.)	------	------	------
4–666	1942	Automatic Weapons Firing Unit. Part XII.—40-mm Antiaircraft Gun. (Title self-explanatory. British training film converted into Army training film.)	2	1	20
4–675	1942	Three-point System of Identification of U. S. Cruisers. (Use of three-point system—turrets, masts, stacks—on ship models to point out identifying characteristics of U. S. heavy cruisers (Wichita class).)	2	1	16
4–676	1942	Three-point System of Identifying U. S. Destroyers. (Title self-explanatory.)	3	1	31
4–685	1942	Antiaircraft Mechanical Mathematics. (Mechanical principles and mathematical theories on machine computers in addition and subtraction, multiplication and division, triangulation, and charting of above problems on appropriate drums and indices. British training film converted into Army training film.)	2	1	17

4–686	1942	Antiaircraft Gun Director. (Mechanical mathematics which form theoretical basis for operation of antiaircraft predictor shown through animation and diagrams. British training film converted into Army training film.)	2	1	26
*4–688	1942	Automatic Weapons Firing Unit. Part XIII.—Gunnery for Antiaircraft Artillery Automatic Weapons. (Title self-explanatory.)	4	2	34
*4–692	1942	Antiaircraft Artillery Gun Directors M4 and M7. Part I.—Setting Up, Leveling, and Adjusting the Levels. (Correct methods; also decided advantages of M7 over M4 director.)	2	1	15
*4–694	1943	Antiaircraft Gun Directors M4 and M7. Part III.—Orienting and Synchronizing. (Title self-explanatory.)	1	1	11
*4–696	1942	Antiaircraft Artillery Gun Directors M4 and M7. Part V.—Fitting Director for a Change of Ammunition. (Removal and installation of ballistic cam and corresponding dials and plates; precautionary measures.)	3	1	29
*4–917	1942	Fire Control and Position Finding for Seacoast Artillery. Part I.—Position Finding Systems. (Principles of position finding and systems used in firing seacoast artillery; process of determining range and direction of target; various types of guns and duties of crew.)	4	2	39

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *4-918	1942	Fire Control and Position Finding for Seacoast Artillery. Part II.—Nonstandard Ballistic Conditions. (Explanation of nonstandard ballistic conditions and application of corrections; range corrections in relation to wind, drift, and rotation of earth; determining velocity of projectile; atmosphere density; data on variations in muzzle velocity; use of plotting boards and meteorological instruments.)	3	1	26
*4-919	1942	Fire Control and Position Finding for Seacoast Artillery. Part III.—Computing and Setting Firing Data. (Determining correct angle of elevation; use of range correction board; computations and solutions regarding direction, deflection; arming and sighting target; methods of setting data on guns. Firing of a complete Case II practice course from commencement of tracking to firing of first salvo.)	3	2	33

*4–920	1942	Fire Control and Position Finding for Seacoast Artillery. Part IV.—Pointing Methods and Reference Numbers. (Case I pointing; case II pointing methods for both range and direction; case III methods as applied to fixed and mobile guns; advantages in use of reference numbers.)	2	2	22
*4–921	1942	Fire Control and Position Finding for Seacoast Artillery. Part V.—MI Plotting Board and MI Range Correction Devices. (Orientation and operation of MI plotting board; orientation of master key and gun push button illustrated and explained; MI correction board and MI percentage corrector.)	4	2	40
*4–922	1942	Fire Control and Position Finding for Seacoast Artillery. Part VI.—MI Deflection Board. (Operation for both case II and case III pointing; initial adjustment or zeroing; setting of check problems; for case III pointing, operation of displacement corrector illustrated and explained.)	3	2	28
*4–923	1942	Fire Control and Position Finding for Seacoast Artillery. Part VII.—Dispersion, Errors, and Spotting Systems. (General information of spotting systems; elementary explanation of dispersion, accidental error, systematic error, and probable error; 2-station terrestrial system of spotting, and use of splash scale in an azimuth instrument.)	2	1	14
*4–924	1942	Fire Control and Position Finding for Seacoast Artillery. Part VIII.—M3 Spotting Board. (Operation; set-up on spotting board in relation to corresponding positions on the ground; methods of checking and adjusting synchronization of azimuth scale.)	2	1	19

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *4–925	1942	Fire Control and Position Finding for Seacoast Artillery. Part IX.—Fire Adjustment—The Magnitude Correction Method and Lateral Adjustment. (Magnitude corrections method of fire adjustment; operation of fire adjustment board in conjunction with spotting board; difference between trial fire and fire for effect; brief explanation of lateral adjustment.)	3	1	27
*4–926	1942	Fire Control and Position Finding for Seacoast Artillery. Part X.—Fire Adjustment—The Bracketing Method. (Use of bracketing method of fire adjustment; comparison of applicability with magnitude corrections method; construction and operation of bracketing adjustment chart; rules for adjusting trial fire.)	2	1	16
*4–947	1942	Antiaircraft Artillery Gun Directors M4 and M7. Part VI.—Care and Maintenance. (Special precautions to be exercised in moving of directors, storage, and exercising the gun.)	2	1	18

*5–12	1935	Map Reading. (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, visibility.)	5	2	43
5–118	1940	River Crossing—Assault Boats. (Methods of handling assault boats, movement to river bank, launching, operation. Use in ferrying troops across streams.)	1	1	9
5–119	1940	River Crossing—Foot Bridge Uses. (Construction and uses of standard foot bridges.)	1	1	9
5–120	1940	River Crossing—Foot Bridge Construction. (Title self-explanatory.)	1	1	10
5–121	1940	River Crossing—Light Ponton Bridge Uses. (Title self-explanatory.)	1	1	9
5–122	1940	River Crossing—Light Ponton Bridge Equipment. (Title self-explanatory.)	1	1	11
5–123	1940	River Crossing—Light Ponton Bridge Construction. (Title self-explanatory.)	3	1	30
*5–145	1941	Armored Combat Vehicles. (First of series of five pictures on methods of antimechanized defense. Various types of combat vehicles, domestic and common, showing capabilities and limitations.)	2	1	18
* 5–146	1941	Means of Antimechanized Defense. (Orientation picture showing use of defensive weapons employed against combat vehicles.)	1	1	9
* 5–147	1941	Antitank Mine M–1. (Construction, assembly, operation, placement, concealment of antitank mine.)	1	1	9
* 5–148	1941	Antitank Obstacles. (Natural obstacles which delay or hinder advance of tanks, such as soft ground, steep banks, trees, stumps.)	1	1	8

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF [a] 5–149	1941	Road Blocks. (Blocking roads against advance of tanks, by such means as destruction of bridges, road craters, barricades of logs, trees, wire.)	1	1	9
[a] 5–199	1941	Pioneer Equipment—Wirecutting Tools. (Types of wirecutting tools used by pioneer troops; purpose and manner of use.)	1	1	8
[a] 5–200	1941	Pioneer Equipment—Woodcutting Tools. (Types of woodcutting tools used by pioneer troops; purpose and manner of use.)	1	1	8
[a] 5–201	1941	Pioneer Equipment—Manila Rope. (Use of various sizes of manila rope with which pioneer troops are supplied.)	1	1	8
[a] 5–202	1941	Pioneer Equipment—Hitches. (Manner in which various "hitches" are made, and uses.)	1	1	10
[a] 5–203	1941	Pioneer Equipment—Knots and Bends. (Manner in which various "knots and bends" are made, and uses.)	2	1	15
5–220	1941	Barbed Wire Materials. (Types of barbed wire and other equipment used in construction of barbed wire obstacles.)	1	1	8

5–224	1941	Portable Barbed Wire Obstacles. (Types and construction of portable barbed wire obstacles.)	1	1	11
* 5–237	1942	Portable Water Purification Unit, Model 1940. (Setting up at water point. Pump section. Filling of chemical feed tanks and chlorine feed bags.)	3	1	27
5–263	1941	Double Apron Fence. (Construction details. Approved method of construction.)	1	1	10
5–268	1942	Ponton Rowing Drill. (Stability, rather than speed, of ponton boats. Necessity for teamwork and precision.)	1	1	10
* 5–270	1942	Explosives and Demolitions. Part I.—TNT. (Physical characteristics of TNT; relative safety; insolubility in water; inflammability in small quantities.)	1	1	10
* 5–271	1942	Explosives and Demolitions. Part II.—Nonelectric Blasting Equipment. (Techniques of handling explosives. How to light and splice fuses. Use of timed, or safety fuses. Handling nonelectric detonating caps and placing charge.)	1	1	10
5–272	1942	Explosives and Demolitions. Part III.—Electric Blasting Equipment. (Technique of electric blasting. Equipment used in blasting stationary tank.)	2	1	13
5–273	1942	Explosives and Demolitions. Part IV.—Primacord. (PETN: how to handle and detonate it, with and without TNT cubes, under various circumstances.)	2	1	12
5–279	1941	10-ton Ponton Boat, Model 1938. (Photographic description; manner in which launched, handled when in water, and removed from water.)	1	1	10

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 5–284	1942	10-ton Ponton Rafts. (Method of construction; carrying and placing balk and chess, attaching side rails, and strengthening ponton bay.)	2	1	12
5–322	1942	Pneumatic Paving Breaker. (Principle, mechanism, assembly, operation, use, and care of Thor Pneumatic Paving Breaker.)	3	1	24
5–378	1942	Construction of Timber Trestle. (First of series of four films. Title self-explanatory.)	3	1	22
5–379	1942	Construction of Abutment. (Title self-explanatory.)	1	1	8
5–391	1942	Floor System for Timber Bridge—The Stringer. (Title self-explanatory.)	2	1	21
5–392	1942	Floor System of Timber Trestle Bridge—Guard Rails and Flooring and Hand Rails. (Title self-explanatory.)	2	1	13
5–565	1942	Repairs and Storage of 10-ton Ponton Bridge Equipment. (Repair kit. Temporary and permanent repairs. Cleaning and inspection. Special fittings. Painting, storage of bridge.)	2	1	19

5–571	1942	Air Compressor and Air Tools—Pneumatic Rock Drill, Model 75. (Thor sinker rock drill, rotating type, standard equipment with every air compressor unit. Diagrams and close-ups show assembly, lubrication, inspection, operation.)	2	1	19
5–572	1942	Explosives and Demolitions—Demolition of the Concrete Arch Bridge. (Process of preparing bridges of two types, 50-foot single-span bridge and 5-span, earth-filled arch bridge, for demolition by haunch and crown charges.)	1	1	8
5–573	1942	Explosives and Demolitions—Demolition of a Reinforced Concrete Deck Girder Bridge. Part I. (Partial and progressive demolition of five spans with pressure charges, bangalore torpedoes, and abutment charges.)	1	1	6
5–574	1942	Explosives and Demolitions—Cratering by Explosives. (Boring, priming, and detonation of single and multiple charge craters designed as road obstacles.)	1	1	9
5–575	1942	Explosives and Demolitions—Dynamite. (Percentage ratings, packing, safety precautions, nitroglycerin dynamite.)	2	1	13
5–597	1942	Explosives and Demolitions—Demolition of a Reinforced Concrete Deck Girder Bridge. Part II. (Continuation of TF 5–573.)	1	1	9
5–598	1942	Explosives and Demolitions—Cutting by Explosives. (Explosives for cutting timber and steel.)	1	1	8
5–615	1942	Portable Steel Bridge. Part I.—H–10 Portable Steel Bridge. (Duties of work section, bolt section, and abutment section, in moving, handling, and assembling truss of H–10 portable steel bridge.)	2	1	19

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *5–620	1942	Portable Single Span Steel Bridge—Equipage for H–20 Loading. (Methods and materials used in constructing portable single span bridge.)	1	1	10
5–623	1942	Air Compressor and Air Tools. (Motorized air compressor and tools; operation and maintenance.)	2	1	21
* *5–645	1942	Camouflage—Individual Concealment. (Principles involved in individual concealment: making uniforms inconspicuous; use of existing terrain; movements which confuse enemy observer.)	1	1	10
* *5–646	1942	Camouflage—Bivouac Area. (Reconnaissance procedure in selection of bivouac area; precautions in maintaining effective concealment; methods and materials used for camouflage; protective positions to be taken by troops while under aerial observation.)	1	1	11
* *5–648	1942	Camouflage—Use of Artificial Materials. (Use of artificial materials to improve available positions where there is little opportunity for natural concealment; types of garnishing: firenet, flat-top net; method of constructing artificial means of concealment.)	2	12	13

*5–649	1942	Camouflage Principles. (Description of objects easily discerned by enemy aerial observation: unusual shadows; unnatural tone or shape; regular pattern of objects; precautions against aerial photographs; importance of selecting position; making maximum use of existing natural concealment.)	1	1	10
*5–651	1942	Maintenance of Heavy Equipment. Parts I and II.—Engineer Tractor Dozer—Daily and Weekly Maintenance. (Importance of keeping tractor dozer in good condition by daily and weekly inspections to check for leakage of oil and water, loose parts; cleaning and checking cooling system and air cleaner equipment; changing of lubricants and periodic lubrication of motor bearings, rollers, accessory parts; keeping tracts free from mud and dirt when equipment is not in use.)	3	1	31
*5–697	1942	Air Compressor and Air Tools—Pneumatic Clay Digger. (Purposes, correct usage, and animated pictures of functioning of clay digger; complete disassembly and assembly of equipment; daily routine checks to assure long life and proper functioning.)	2	1	14
*5–698	1942	Air Compressor and Air Tools. Part V.—Pneumatic Wood Borer. (Complete disassembly and assembly of wood borer for performing periodic routine checks in maintenance of equipment; correct use of and proper manner of sharpening bits.).	1	1	9

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *5-699	1942	Air Compressor and Air Tools. Part VIII.—Pneumatic Nail Driver. (Purpose and correct use of equipment; complete disassembly and assembly for periodic routine checks in maintenance procedure.)	2	1	17
*5-955	1942	Air Compressor and Air Tools. Part VI.—Pneumatic Circular Saw. (Animated drawings of functioning of saw; correct usage; proper means of maintenance of equipment, reconditioning of blades.)	2	1	20
*5-956	1942	Air Compressor and Air Tools. Part VII.—Pneumatic Chain Saw. (Usage of saw; methods of lubrication; routine periodic safeguards in maintenance.)	2	1	16
*5-961	1942	Camouflage for All Arms. (Title self-explanatory.)	2	1	30
*5-962	1942	Antivehicle Obstacles—Elementary. (Title self-explanatory.)	3	2	47
*6-103	1040	Truck-drawn Units—Reconnaissance and Preparation of Routes. (Preliminary reconnaissance necessary before operating over difficult terrain. Steps taken to prepare routes for movement of vehicles.)	1	1	10

*6–104	1940	Truck-drawn Units—Difficult Terrain. (Procedure when motor vehicles must be moved over terrain presenting natural obstacles other than stream crossings. Field expedients.)	3	1	29
*6–105	1940	Truck-drawn Units—Stream Crossings. (Field expedients to move motor vehicles across streams of various sizes.)	2	1	19
*6–106	1940	Truck-drawn Units—Movement of Disabled Vehicles. (Technique of replacing in operation vehicles disabled through overturning and bogging down.)	1	1	9
*6–111	1939	Preparation of Fire—The Mil Relation. (Mil and applicability of mil relation to military use.)	1	1	11
6–112	1939	Preparation of Fire—Instruments. (Use of field artillery instruments in preparation of fire.)	1	1	8
6–124	1940	155-mm Howitzer M1918A1, Truck-drawn. The Section: Duties at the Gun Park—Care on the March. (Title self-explanatory.)	2	1	15
6–125	1940	155-mm Howitzer M1918A1, Truck-drawn. The Section: Duties at the Firing Position—Firing Duties. (Title self-explanatory.)	3	1	27
6–126	1940	155-mm Howitzer M1918A1, Truck-drawn. The Section: Duties at March Order. (Title self-explanatory.)	1	1	10
*6–183	1942	155-mm Gun, Model 1918A1—Service of the Piece Before and During Action. (Vulnerable points of 115-mm gun; gun crew going through routine duties of operation, servicing before and during action; description of gun.)	4	2	41

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 6-230	1941	240-mm Howitzer. Part I.—Personnel and Equipment, and Emplacing. (Organization of battery. Details of gun, transportation, and other equipment.)	5	2	47
6-231	1941	240-mm Howitzer. Part II.—Service of the Piece. (Duties of personnel in emplacing and assembling 240-mm howitzer for firing.)	2	1	18
6-232	1941	240-mm Howitzer. Part III.—Displacing. (Duties of personnel in displacement and preparing for march order.)	3	1	32
6-611	1942	105-mm Howitzer. Part I.—Mechanical Functioning. (Nomenclature of parts; mechanical operation.)	4	2	38
6-612	1942	105-mm Howitzer. Part II.—Service of the Piece. (Uncoupling, preparing for action, performing service of the piece, and march order.)	3	1	26
6-613	1942	105-mm Howitzer. Part III.—Firing Battery on the March and in Position. (Example and description of position of firing battery vehicles.)	3	1	27

*6–684	1942	105-mm Howitzer Battalion. (High mobility and capabilities of intense concentration of fire when employed in tactical units of 105-mm howitzer battalion.)	7	2	63
*6–940	1942	Technique of Fire Direction, 105-mm Howitzer Battalion. Part I.—The Observed Fire Chart. (Disposition of artillery battalion, observed fires by individual batteries; organization and duties of fire-direction center personnel; construction and use of battalion observed-fire chart.)	3	2	42
*6–941	1942	Technique of Fire Direction, 105-mm Howitzer Battalion. Part II.—The Surveyed Firing Chart and Determining and Application of Correction. (Construction and use of surveyed firing chart; determination and application of corrections obtained by registration; handling of mission observed from the air.	2	1	27
*6–942	1942	Technique of Fire Direction, 105-mm Howitzer Battalion. Part III.—Handling of Prearranged Fire and Use of Meteorological Data. (Functioning of fire-direction center during displacement; preparation of prearranged fires; use of meteorological data; center-of-impact registration; massing of fires of division artillery.)	2	2	30
*6–978	1942	Field Artillery Against Tanks. (Title self-explanatory.)	1	1	10
*6–994	1942	105-mm Howitzer Battery—Organization of Position. (Title self-explanatory.)			

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels: 35-mm	Number of reels: 16-mm	Running time (minutes)
TF [a] 7–20	1935	River Crossing by an Infantry Battalion. (Philippine infantry demonstrate use of organization equipment for preparing floats. Crossing of individual and organization equipment. Use of safety buoys. Organization and crossing by unit.)	1	1	8
[a] 7–25	1938	Bayonet Training. (Execution of thrusts, butt strokes, and parries; bayonet course being run; normal speed and slow motion.)	9	1	76
7–28	1937	Employment of Machine Guns in the Attack. (Illustrative tactical situation. Instructions by company commander, platoon, and section leaders. Movement of machine guns into action, employment in attack.)	3	1	31
7–29	1938	Employment of Machine Guns in the Defense. (Illustrative tactical situation. Orders by company commander and platoon leader. Action of section leader. Location and installation of guns. Fire missions. Preparation of fields of fire and obstacles. Firing and operation of machine guns in defense.)	3	1	26

* 7–35	1938	Infantry Hasty Field Fortifications. (Principles involved in location and construction of skirmishers' trenches and fox holes, barbed wire entanglements, caliber .30 machine-gun emplacements, caliber .50 machine-gun emplacements. Miscellaneous infantry installations including those for infantry mortar, command posts, aid stations, concealment of vehicles.)	6	2	50
7–108	1940	Technique of Small Arms Fire against Attack Aviation (Vulnerable parts of airplanes. Technique of firing from ground at airplane targets.)	2	1	17
7–109	1940	Defense of Infantry Columns against Attack Aviation. (Technique of antiaircraft defense for columns on road. Uses of infantry organization weapons.)	2	1	18
7–110	1940	Defense of Infantry Areas against Attack Aviation. (Defense of bivouac areas against low-flying aviation.)	1	1	7
7–143	1941	Infantry Drill—The Squad. (Close order drill, school of the squad.)	1	1	10
7–144	1941	Infantry Drill—The Platoon. (Close order drill, school of the platoon.)	2	1	14
7–151	1941	Parachute Training in the German Army. (German film showing methods of training and operation of German parachute troops. English translation added.)	2	1	15
7–228	1942	Battle Formations—Rifle Platoon. (Extended order formations of rifle platoon, illustrating how, why, and when used. Duties of platoon leaders, platoon sergeant, and guide in approved march.)	5	1	43

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF [a] 7–233	1942	Determining Direction in the Field. (Individual soldier learns how to orient himself and determine direction in field by use of landmarks, prismatic compass, maps, and sketches. Field expedients if soldier lacks compass or more conventional means of determining direction.)	1	1	9
[a] 7–234	1941	Use of Natural Cover and Concealment. (Individual movement in prescence of enemy observation.)	2	1	18
[a] 7–236	1942	Weapons of the Infantry Division. (Types of weapons with sound of firing, passage of shell or bullet through air, and strike. Useful in identifying weapons.)	6	2	56
[a] 7–248	1941	Instruction of the Soldier, Dismounted, Without Arms—Position and Facings. (Elementary instruction of soldier.)	2	1	22
[a] 7–249	1941	Instruction of the Soldier, Dismounted, Without Arms—Steps and Marchings. (Title self-explanatory.)	2	1	22

7–250	1941	60-mm Mortar—Mechanical Training. (Mechanical construction, assembly, adjustment, general principles of employment. Sighting and firing not covered in this film.)	2	1	20
[a] 7–251	1941	60-mm and 81-mm Mortar—Sights and Sight Setting. (Use of sights for both mortars; firing of 60-mm mortar on range.)	3	1	28
[a] 7–265	1942	Sand Table. Part I.—Preparation. (Set-up and materials needed for planning sand table.)	3	1	27
[a] 7–266	1942	Sand Table. Part II.—Use. (Practical use and application of sand table to tactical problems in combat situation. Completed table shows range of mountains, valley, rivers, roads, and forests.)	2	1	20
7–275	1942	Operations of a Reconnaissance Patrol at Night. (Beginning with preliminary daylight training and reconnaissance, 6-man patrol prepares for and goes on realistic night patrol in enemy territory.)	4	1	39
7–280	1942	Reconnaissance Scout. (Duties of individual scout, demonstrating technique of cross-country scouting.)	1	1	10
[a] 7–295	1941	Military Training. (Methods of instruction prescribed in FM 21–5, BFM, Military Training. Visual aid to instructors, as guide in organization of groups or classes and effective presentation of instructional matter.	6	2	58
7–318	1942	Platoon Scouts. (Cautious advance by bounds of platoon and its point. Rudiments of such advance from beginning of patrol to contact with hostile forces.)	1	1	11

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 7-393	1942	Battle Formations—Rifle Squad. (Extended order formations of rifle squad, how and why used; sets up and solves problems involving descriptions by squad leaders of formations, routes of advance, maintenance of contact and direction, and others.)	4	1	32
7-560	1942	School of the Soldier, Manual of Arms. Part I.—Nomenclature for Drill, Movements from Order Arms. (Title self-explanatory.)	3	1	29
7-561	1942	School of the Soldier, Manual of Arms. Part II.—Movements from Port Arms, Other Movements. (Title self-explanatory.)	2	1	17
7-637	1942	Know Your Enemy—Air-borne Troops. (Identifying enemy paratroops by description of clothing and equipment. British training film converted into Army training film.)	2	1	22
*7-668	1942	37-mm Antitank Gun, M3—Action and Service of the Piece. (Duties of gun squad; action and service of the piece; action on wheels; safety precautions.)	4	2	38

*7–677	1942	Ski Equipment. (Details of necessary clothing and equipment; how special equipment and clothing should be used to safeguard life; complete list of equipment issued each trooper.)	2	2	21
*7–678	1942	Snow Camping Above Timberline. (Selection of camp site that will afford concealment from enemy; obscuring tracks when approaching camp location; duties of squad in grading camp site and pitching tent; lighting, cooking, and sleeping facilities; transporting, storing, and preparing food, obtaining water supply.)	4	2	42
*7–679	1942	Snow Camping in Timber. (Title self-explanatory.)	3	2	24
*7–680	1942	Ski Safety. (Adjusting ski bindings and heel springs; determining type of wax; adjustment of rucksack; wearing snow goggles. Treatment of snow blindness; use of sunburn preventive; ski apparel while traveling; extra apparel when resting.)	2	2	21
*7–681	1942	Ski Safety—First Aid and Emergency Repair of Equipment. (First aid for various types of accidents; handling and removing injured; emergency repair of equipment.)	4	1	41
*7–682	1942	Ski Sled. (Title self-explanatory.)	2	1	20
*7–683	1942	Ski Mountaineering. (Individual equipment, route, objectives; concealment, safety precautions; use of compass and map; maintaining contact; operation of ski poles; touring technique; paces, proper gradients, through dense timber, crossing streams, climbing rock or ice slopes; avalanche precautions and technique; transporting equipment.)	4	1	36

Sound training films —Continued

Serial No.	Calendar year released	Subject	Number of reels: 35-mm	Number of reels: 16-mm	Running time (minutes)
TF ª 8–33	1938	First Aid. (Aid expedients available under service conditions. Use of first-aid packet; controlling hemorrhage and protecting wounds; treatment of fractures; moving casualties.)	4	------	33
ª 8–150	1941	First Aid. Part IV.—Injuries and Accidents. (Accidents and injuries occurring in everyday military life.)	3	1	26
ª 8–154	1941	Sex Hygiene. (Venereal diseases: cause, effects, and prevention.)	3	1	26
ª 8–155	1941	Personal Hygiene. (Basic principles of personal cleanliness, hygiene, sanitation.)	4	1	36
ª 8–304	1942	First Aid for Gas Casualties. (Prompt first-aid emergency treatment for mustard, Lewisite, lacrimator or tear gas, irritant smoke, irritant gases (chlorine, phosgene, chloropicrin), white phosphorus.)	2	1	20
* 8–999	1942	The Fly. (British film converted into War Department training film. Fly as carrier of germs which produce harmful effects on troops. Counteracting unsanitary conditions.)	2	1	16

* 8–1000	1942	The Louse. (British film converted into War Department training film. Louse as carrier of disease; diseases which can be caused by lice; means of decontaminating bodies, clothing and other material to which lice have access.)	2	1	20
9–30	1937	Elementary Principles of the Recoil Mechanism. (Hydraulic type recoil brakes. Operation of elements of recoil mechanism. Pneumatic type counterrecoil system, operation.)	2	1	13
9–31	1937	Recoil Mechanism, French 75-mm Gun, Model 1897. (Principles and operation of recoil mechanism shown by means of animated cut-outs.)	1	1	11
9–113	1940	Machining the Shell for 3-inch Antiaircraft Gun. (Sequence of machining and other incidentals of operations in manufacturing 3-inch antiaircraft shell.)	2	1	21
9–114	1940	Loading, Assembling, and Packing Ammunition for 3-inch Antiaircraft Gun. (Steps involved in loading shell and case of 3-inch antiaircraft round.)	2	1	20
[a] 9–169	1941	Electrical System of the Diesel Tractractor. (Commercial film adapted as War Department training film. Title self-explanatory.)	1	1	9
[a] 9–170	1941	Fuel System of the Diesel Tractractor. (Commercial film adapted as War Department training film. Title self-explanatory.)	1	1	8
[a] 9–171	1941	Engine of the Diesel Tractractor. (Commercial film adapted as War Department training film. Title self-explanatory.)	2	1	20
[a] 9–172	1941	Power Train of the Diesel Tractractor. (Commercial film adapted as War Department training film. Title self-explanatory.)	3	1	32

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF [a] 9–173	1941	Track and Suspension System of the Diesel Tractor. (Commercial film adapted as War Department training film. Title self-explanatory.)	2	1	19
9–614	1942	Heavy Wrecking Truck M1, Series 2—Operation and Use. (Title self-explanatory.)	3	1	23
*9–618	1942	Unexploded Bombs. (Characteristics and capabilities of various German bombs; extent of damage; crater created when bomb fails to detonate; defusing and disposing of unexploded bombs.)	5	2	43
*9–970	1942	Care and Maintenance of Pneumatic Tires—Tire Designs and Functions. (Title self-explanatory.)	2	1	11
9–971	1942	Care and Maintenance of Pneumatic Tires—Preventive Maintenance. (Title self-explanatory.)	2	1	15
*9–972	1942	Care and Maintenance of Pneumatic Tires—Part III.—Removing and Replacing Wheels. (Title self-explanatory.)	1	1	9
*9–973	1942	Care and Maintenance of Pneumatic Tires. Part IV.—Mounting and Dismounting Tires with Full Drop-center Rims. (Title self-explanatory.)	2	1	14

*9–974	1942	Care and Maintenance of Pneumatic Tires. Part V.—Mounting and Dismounting Tires with Semi-drop-center Rims. (Title self-explanatory.)	2	1	18
*9–975	1942	Care and Maintenance of Pneumatic Tires. Part VI.—Tire Repairs. (Title self-explanatory.)	2	1	12
*9–976	1942	Care and Maintenance of Pneumatic Tires. Part VII.—Mounting and Dismounting Combat Tires. (Title self-explanatory.)	2	1	20
*9–977	1942	Care and Maintenance of Pneumatic Tires. Part VIII.—Bullet-resisting Tubes. (Title self-explanatory.)	1	1	9
10–158	1941	Diesel Engines—Principles, Operation, and Applications. (Fundamental principles of Diesel engine construction. Details of operation. Various types and uses.)	2	1	16
10–165	1941	Construction and Use of Oxyacetylene Welding Equipment. (Title self-explanatory.)	1	1	16
10–166	1941	Gasoline Motors. (Fundamental principles of operation. Development from simplest form to more complicated multicylinder automobile engine.)	2	1	17
[a]10–167	1941	Hydraulic Brakes. (Elementary principles of hydraulics. Application to automobile brakes.)	1	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	30
10–291	1942	Trouble Shooting, Motor Maintenance—Functions of the Fuel and Ignition Units. (Designed to facilitate diagnosis of engine trouble by imparting working knowledge of principles of gasoline engine and related parts.)	2	1	14

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 10–299	1942	Automotive Trouble Shooting. Part XIII.—Hydraulic Brakes. (Detecting faults in brakes and brake systems; methods of repair.)	3	1	27
10–300	1942	Automotive Trouble Shooting. Part XV.—The Clutch. (Positions of clutch in operation, and maintenance of clutch units.)	2	1	21
10–301	1942	Automotive Trouble Shooting. Part XVI.—Drive Shaft and Axle. (Drive shaft in operation; inspection, repair, maintenance.)	3	1	28
*10–319	1942	Trouble Shooting, Motor Maintenance—Cooling System Troubles. (Failures of thermostat, pump, radiator; leaks of all types throughout system; methods of draining and cleaning rust and sediment in all parts.)	4	1	32
*10–376	1942	Trouble Shooting, Motor Maintenance—Cranking System. (How to locate mechanical troubles when engine will not start or runs improperly. System of checking ignition and fuel gage, electrical circuit and battery; checking voltmeter. Entire electric circuit shown in animation.)	2	1	14

*10–377	1942	Trouble Shooting, Motor Maintenance—Fuel System—Engine Will Not Start. (How to check trouble when starting system turns over engine, but engine does not run on own power. Checking fuel pump for fuel supply, supply at carburetor, system from fuel tank to filter, fuel pump.)	2	1	13
*10–384	1941	Dodge 4 x 4 Truck—Driver's Operating Instructions. (Basic and special operating instructions.)	2	1	19
*10–385	1941	Dodge 4 x 4 Truck—Systematic Greasing and Lubrication. (Periodic greasing and lubrication performed in 1st and 2d echelons of maintenance.)	2	1	22
*10–396	1942	Automotive Trouble Shooting. Part VI.—Ignition System at Various Speeds. (Title self-explanatory.)	2	1	21
10–570	1942	Automotive Trouble Shooting. Part X.—Engine Tune-up. (Detailed steps in checking 20 parts of engine, shown through diagrams and close-ups.)	6	2	56
10–592	1942	Automotive Trouble Shooting. Part XIA.—Wheels. (Detecting faults in wheel alignment, bent wheels, wheel bearing; correction and repair.)	2	1	15
10–593	1942	Automotive Trouble Shooting. Part XIB.—Spring and Shock Absorbers. (Detecting faults, adjustment of springs and shock absorbers during chassis overhauling.)	2	1	15
10–595	1942	Automotive Trouble Shooting. Part XII.—Lighting System. (Detail of lighting system of army vehicles; basic causes of trouble; detection and correction.)	2	1	20
10–596	1942	Trouble Shooting. Part XVII.—Transmission and Transfer Care. (Purpose and importance; detecting faults; making repairs.)	2	1	19

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 10–639	1942	Spark Plug. (Function and care; elimination of faults in ignition system.)	2	1	17
10–654	1942	Motorcycle Driver Training. Part I.—Description and Function. (Operating parts of motorcycle necessary to be mastered as part of driver training.)	1	1	11
*10–929	1942	Hand Measuring and Power Tools—Operation and Care of Portable and Bench Grinders. (Title self-explanatory.)	3	1	18
*10–930	1942	Hand Measuring and Power Tools—Portable Electric Drills. (Title self-explanatory.)	3	1	19
*10–931	1942	Hand Measuring and Power Tools—Electric Valve Grinding Tools. (Title self-explanatory.)	6	1	29
*10–932	1942	Hand Measuring and Power Tools—Care and Use of Files. (Title self-explanatory.)	6	1	24
*10–933	1942	Uses and Abuses of Twist Drills. (Title self-explanatory.)	3	1	27
11–157	1941	Military Courtesy and Customs of the Service. (Basic military training subject. Title self-explanatory.)	3	1	26

11–168	1941	Basic Principles of Skiing. (Skiing equipment; methods of walking, climbing, turns, other basic principles soldier should learn when beginning to ski.)	4	1	38
[a] 11–177	1941	Basic Signal Communication—Field Wire Splices. (Types, methods of making field wire splices.)	2	1	21
11–178	1941	Basic Signal Communication—Field Wire Ties. (Types of field wire ties, showing conditions under which they are used, and manner in which they are made.)	1	1	9
[a] 11–184	1941	Conduct of Physical Training. (Calisthenics and other methods of physical training for instructor and soldier.)	3	1	30
[a] 11–205	1942	Safeguarding Military Information—Cryptographic Security. (When and how to employ cryptography. Type of code to use. How to write message, paraphrase it; preliminaries of encoding and transmission. Specialists and officer personnel comprise sole effective audience.)	2	1	21
11–225	1941	Interrogation of Prisoners. (Film produced by British War Office, partially re-edited by U. S. Signal Corps. Activities of number of British captives showing how careless remarks and replies to questions may be fruitful source of information to enemy.)	4	1	37
[a] 11–235	1941	Articles of War. (Composition of military courts and history. More important punitive articles. Results of failure to conform to military law.)	5	2	47
11–257	1941	Care and Maintenance of Tapered Roller Bearings. (Commercial film prepared on Timken service manual. Title self-explanatory.)	3	1	31

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 11–262	1941	Point Control of Traffic. (Various techniques used by military police organization and military police individually in correct control of traffic.)	2	1	26
[a] 11–274	1941	Pistol Bullseyes. (16-mm only.) (Pistol marksmanship from preliminary instruction to record firing.)	------	1	20
11–296	1941	Technique and Mechanics of Arrest and Search of Persons. (16-mm only.) (Produced by Federal Bureau of Investigation. Title self-explanatory. At request of Federal Bureau of Investigation, film when shown, will be shown in entirety.)	------	3	69
11–297	1942	Basic Signal Communication—Field Wire Line Construction. (Detailed methods including construction orders, surface-line construction, overcoming obstacles, tagging line constructions to instruments, to terminal strips, installations to command posts.)	2	1	19
11–298	1942	Mitchell Camera. (Parts and operation of this 35-mm professional motion-picture camera, showing motor lenses, magazines, accessories, and tripod.)	2	1	17

[a] 11–321	1942	Combat Counterintelligence. (Precautions against revealing information to enemy, taken in bivouac area as unit moves forward. Search for, and confiscation of, articles which might betray information to enemy. Costly results of disobedience of camouflage discipline. Dramatic and effective film for all combat troops.)	3	1	28
[a] 11–324	1941	Safeguarding Military Information. (For military and civilian personnel to impress absolute necessity for keeping eyes open and mouths shut.)	2	1	12
[a] 11–325	1942	Safeguarding and Proper Handling of Classified Material. (Necessity and methods of safeguarding military materials and information; use of classifications, such as restricted, confidential, secret, registered. Relative meaning of each classification; handling required on all types of material.)	2	1	18
[a] 11–382	1941	Know Your Enemy. (Identification of tanks, through motion pictures, still photography, diagrams. British film.)	4	2	44
[a] 11–383	1941	Friend or Foe. (Identification of tanks, through motion pictures, still photography, diagrams. British film.)	6	2	55
11–397		Basic Signal Communication—Field Wire Laying Equipment. (Title self-explanatory.)	2	1	20
[a] 11–551	1942	Motor Vehicle Driver—Responsibility, Nomenclature, Fire Regulations, Accident Prevention. (Title self-explanatory.)	3	1	25
[a] 11–552	1942	Motor Vehicle Driver—Hand Signals, Road Rules and Regulations. (Hand signals in motor convoy and elsewhere; road rules and regulations which Army driver must obey.)	2	1	12

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF ▪ 11–553	1942	Motor Vehicle Driver—Elementary Driving Instructions and Inspections. (Group of driver candidates instructed in routine inspections of vehicle and equipment. Initial steps in right and wrong methods of driving.)	3	1	25
▪ 11–554	1942	Motor Vehicle Driver—Difficult Driving. (Methods, expedients, and techniques in hazardous driving; bogs, steep and sharp grades, turns with and without trailers.)	2	1	18
▪ 11–555	1942	Motor Vehicle Driver—Traction Aids and the Winch. (Appropriate use of traction aids and expedients over terrain with conditions demanding them.)	3	1	27
▪ 11–556	1942	Motor Vehicle Driver—Map Reading. (Types of maps, symbols, and scales. Film cannot replace actual study and memorizing of symbols by candidate driver.)	1	1	9

[a] 11–557	1942	Motor Vehicle Driver—Marching and Night Driving. (Three types of organized march: close column, open column, infiltration. Determining speed and distance between vehicles; parking, camouflage, care of vehicles. Night driving with and without black-out lights.)	2	1	20
[a] 11–558	1942	Motor Vehicle Driver—First Echelon Maintenance. (Lubrication, adjustment of certain specified parts, tire removal and repair, cleaning of filters and batteries, general upkeep of vehicle, engine, frame, body.)	4	1	35
[a] 11–559	1942	Motor Vehicle Driver—Loading, Trouble Shooting, Reports, and Vehicle Abuse. (Proper overseeing of vehicle loading. Reports required of driver. General technique of trouble shooting.)	3	1	27
11–590	1942	Climbing and Working on Poles. (Use of lineman's equipment TE–21 in construction and repair; testing by pike pole and inspector's probe, use of climbers and safety belt, care of equipment.)	2	1	15
11–621	1942	Care and Release of Pigeons in the Field. (Use of pigeons for signal communication primarily at critical times when other means are not expedient; care in handling and releasing.)	1	1	10
*11–622	1942	Electricity and Magnetism. Part I.—Elements of Electricity. (Title self-explanatory.)	1	1	14
*11–629	1942	Radio Set SCR–270—Locating and Reporting Targets. (Title self-explanatory.)	2	2	18

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF [a] 12–578	1942	Classification of Enlisted Men—Personnel Placement in the Army—Army A. G. O. Form No. 20, Card. (Case studies show function of 28 sections of *Soldier's Qualification Card* as used by interviewers, classifiers, and assignment officers in reception centers to place recruits in proper training centers.)	2	1	12
17–264	1941	Armored Force Drill—Light Tank Crew. (Composition of light tank crew, duties of each member during drill, mounted, dismounted, and in action.)	2	1	12
[a] 17–314	1942	Half-track Driving—Advanced. (Operation and purpose of vehicles over varied terrain during normal and unusual weather conditions. Special emphasis upon prevention of mechanical damage to vehicle and equipment in tow by proper manipulation of gears and speed, knowledge of terrain through maps and photographs, teamwork of car crew.)	2	1	16
17–315	1942	Armored Force Drill—Mounted Drill. (Drill formation, columns, lines, echelon right, and wedge. Communication controls: radio, messenger, pyrotechnics, flag, hand and arm signals.)	2	1	15

17–375	1942	Tank Driving—Basic. (Starting of gasoline and Diesel engine; elementary driving; signals; stopping; inspection; maintenance.)	2	1	20
*17–576	1942	Tank Driving. Part II.—Advanced. (General principles of advanced tank driving; cross-country operation including steep slopes, obstacles, soft ground, fording streams; combat driving; night driving, night signals.)	3	1	22
17–577	1942	Armored Force Drill—Medium Tank Crew. (Duties and actions of each member of 7-man crew during drill, inspection, mounted, dismounted, and in action.)	2	1	14
[a]*17–617	1942	Motorcycle Driving, Advanced. (Operation of the motorcycle; technique of riding over slippery surfaces, soft dirt, sharp ridges, ditches; fording streams; climbing steep slopes; operation with side car; precautions; scouting and traffic duties.)	2	1	13
*17–963	1942	Thompson Submachine Gun—Functioning. (Title self-explanatory.)	1	1	5
*17–964	1942	Thompson Submachine Gun—Assembly and Disassembly. (Title self-explanatory.)	1	1	11
*17–965	1942	Thompson Submachine Gun—Manual of Arms. (Title self-explanatory.)	1	1	7
*17–966	1942	Thompson Submachine Gun—Loading and Firing. (Title self-explanatory.)	1	1	4
*17–967	1942	Thompson Submachine Gun—Marksmanship. (Title self-explanatory.)	1	1	9
[a]25–152	1941	Ignition and Spark Plug. (Fundamentals of construction, operation, maintenance of spark plugs and ignition systems in motor vehicles.)	1	1	12

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 25–333	1942	Engine Lathe—Rough Turning Between Centers. (Produced by Office of Education, Department of Interior. Setting up engine lathe for rough turning job between centers on a piece already cut to length and centered. Safety precautions in dress and work; use of various controls on lathe.)	2	1	15
25–334	1942	Engine Lathe—Turning Work of Two Diameters. (Produced by Office of Education, Department of Interior. Sequence of operations when turning gear blank with shaft, from solid piece of round stock.)	2	1	14
25–335	1942	Engine Lathe—Cutting a Taper with Compound Rest and with Taper Attachment. (Produced by Office of Education, Department of Interior. Turning sharp taper on bevel gear blank with compound rest, and slight taper on shaft with taper attachment.)	1	1	11

25-336	1942	Engine Lathe—Drilling, Boring, and Reaming Work Held in Chuck. (Produced by Office of Education, Department of Interior. Cutting tapered hole in solid forged steel gear blank. Centering piece in chuck, rough facing, drilling, taper-boring, reaming.)	1	1	11
25-337	1942	Engine Lathe—Cutting an External National Fine Thread. (Produced by Office of Education, Department of Interior. Shapes of threads and uses. Characteristics of national fine thread; cutting thread on lathe.)	2	1	13
25-338	1942	Milling Machine. (Produced by Office of Education, Department of Interior. Earliest parts of standard plain milling machine.)	1	1	7
25-339	1942	Milling Machine—Cutting Keyways. (Produced by Office of Education, Department of Interior. Setting up shaft on table of milling machine for cutting keyway at each end. Selection of cutter. Determination of speed and feed. Setting machine for depth and length of cut.)	2	1	15
25-340	1942	Milling Machine—Straddle and Surface Milling to Close Tolerances. (Produced by Office of Education, Department of Interior. Rough milling solid bar of stock all over, and finish milling to given shape and size.)	3	1	27
25-341	1942	Milling Machine—Straddle Milling. (Produced by Office of Education, Department of Interior. Straddle milling pair of connecting rods held in fixture. Function of fixtures in production work.)	2	1	18

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 25–342	1942	Milling Machine—Plain Indexing and Cutting a Spur Gear. (Produced by Office of Education, Department of Interior. Set-up of milling machine. Use of dividing head. Cutting 8-pitch spur gear with 36 teeth.)	3	1	25
25–343	1942	Vertical Boring Mill—Rough Facing, Turning, and Drilling on a Vertical Turret Lathe. (Produced by Office of Education, Department of Interior. Rough facing, rough turning, and drilling aluminum casting held in chuck jaws of vertical turret lathe.)	3	1	31
25–344	1942	Vertical Boring Mill—Rough Facing, and Boring and Turning a Shoulder on a vertical Turret Lathe. (Produced by Office of Education, Department of Interior. Tooling up vertical turret lathe for production work requiring independent use of vertical and side heads.)	2	1	22

25–345	1942	Vertical Boring Mill—Facing, Turning, Boring, Grooving, Chamfering on a Vertical Turret Lathe Using Two Heads. (Produced by Office of Education, Department of Interior. Tooling up lathe for operations requiring simultaneous use of both vertical and side heads.)	3	1	31
25–346	1942	Steel Rule. (Produced by Office of Education, Department of Interior. Forms of rule in general use. Fractional scales and correct use.)	2	1	14
25–347	1942	Micrometer. (Produced by Office of Education, Department of Interior. Forms of micrometer. How micrometers are read. Correct use and care.)	2	1	15
25–348	1942	Fixed Gages. (Produced by Office of Education, Department of Interior. Types of fixed gages and their importance in modern mass production.)	2	1	17
25–349	1942	Vernier Scale. (Produced by Office of Education, Department of Interior. Detailed study, largely in animation, of principles of Vernier scale and application to precision measurement.)	2	1	19
25–350	1942	Height Gages and Standard Indicators. (Produced by Office of Education, Department of Interior. Fundamental principles of Vernier height gage; forms of standard indicators; use.)	2	1	12
[a] 25–394	1942	Detection of Booby Traps. (British film converted into War Department training film. Planting, discovering, defusing booby traps placed in open trenches, or in structures of all types.)	2	1	21
25–624	1942	Cutting a Keyway on a Finished Shaft. (Produced by Office of Education, Department of Interior. Procedures used with shaper in cutting keyway on finished shaft to given dimensions.)	2	1	13

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 25–625	1942	Machining a Rectangular Cast Iron Block. (Produced by Office of Education, Department of Interior. Operations on shaper in rough and finished machining of rectangular block all over to given dimensions. Animation demonstrates and defines speed and feed.)	2	1	15
25–626	1942	Drilling and Tapping a Cast Steel Valve Body. (Produced by Office of Education, Department of Interior. Procedures with radial drill for drilling, and tapping to given specification, blind holes in cast steel valve body using jig. Demonstration of action of tap.)	2	1	19
25–627	1942	Drilling to a Lay-out and Spotfacing a Cast Iron Valve Body. (Produced by Office of Education, Department of Interior. Methods used with radial drill for drilling to lay-out and spotfacing to given dimensions, flange of cast iron valve body. Technique used in drawing over drill that has started off center.)	2	1	15

25–628	1942	Machining a Tool Steel V-block. (Produced by Office of Education, Department of Interior. Explains shaper to machine V-block from solid piece of tool steel to given dimensions.)	2	1	20
*25–670	1942	Organization of the Army. (Title self-explanatory. This film will be shown through enlisted and commissioned personnel, and to new personnel within first 30 days of active duty. In addition it will be shown to all enlisted men while students in officer candidate schools (Sec. II, T. C. No. 100, W. D., 1942).)	3	2	24
*30–938	1942	Mr. Blabbermouth. (Vital comparison of figures on military and naval strength, production capacities, and supplies of oil, rubber, and minerals, to counteract stories false in origin which spread confusion both to civilian populace and military personnel. Yankee ingenuity is also shown in its ability to create and develop materials which surpass those of the enemy.)	2	1	19
*30–949	1942	Don't Talk. (Shows clearly how F. B. I. works in combating espionage and sabotage. Thoroughness of this bureau's work is assuring to last minute detail. How careless remarks about industry and production help enemy agents in plotting and carrying out acts of sabotage. How F. B. I. is protecting war time industry.)	2	1	21

Sound training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF *30–950	1942	Next of Kin. (British film converted into War Department training film. Importance of safeguarding military information. Numerous places and incidents where harmless conversation about military information may fall into hands of enemy. British security officer's role in combating sabotage and espionage.)	6	2	79
*55–937	1942	Military Stevedoring. Part I.—Loading Cargo Ships. Results of training Army men in principles of stevedoring. Army stevedores, in complete harmony and unison, loading and unloading hatch; dividing hatch into decks for appropriate stowage of supplies; sealing hatch; stowing and lashing deck cargo. Explanation of terms referring to equipment, supplies, members of crew.	2	1	18

■ 14. SILENT TRAINING FILMS.—Silent 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 all sublibraries but may be obtained for temporary loan by application to commanding generals of service commands. All subjects are available in both 35-mm and 16-mm size unless otherwise indicated. Silent 16-mm films can be run on 16-mm sound projectors without damage to the film.

Silent training films—Continued

Serial No.	Calendar year released	Subject	Number of reels		Running time (minutes)
			35-mm	16-mm	
TF 4–9	1932	Tactical Employment of a Battery of 155-mm Guns, Tractor-drawn (CA). (Gun battery, in route column, going into position and firing at sea target. Functions of position-finding and fire-control systems.)	2	1	16
4–23	1939	Antiaircraft Regiment—Training for Spotters. (Antiaircraft spotting instruction *Applicable only to antiaircraft units of coast artillery.*)	3	1	32
6–4	1930	Driving and Draft, Horse-drawn Artillery. (Pair and team in fundamental movements; common errors of driving. Draft over difficult terrain, up and down steep grades, over obstacles.)	4	2	48

■ 15. FILM STRIPS.—Where matter contained in the film strip is not self-explanatory, brief notes accompany the strip (see AR 105–260). Organizations should requisition film strips in the manner described in paragraphs 5 and 6. There is no property accountability for film strips. For information on film strip projection, see paragraph 9c. Subjects applicable to more than one arm or service are indicated by a superior "a" (a). Films which have been released since the July 1, 1942 edition of FM 21–6 are indicated by an asterisk (*).

Film strips

Serial No.	Subject	Remarks
FS 1–1	Summary of Flight Rules. (Situations that arise when flying airways, and procedure to comply with Department of Commerce regulations. Covers rules in Part I, Manual No. 60, Civil Air Regulations, as approved by Civil Aeronautics Board.)	No notes.
1–2	Airport Traffic Control. (Situations that arise when flying airways, and procedure to comply with Department of Commerce regulations. Covers rules in Part I, Manual No. 60, Civil Air Regulations, as approved by Civil Aeronautics Board.)	Do.
1–3	Airway Traffic Control. (Situations that arise when flying airways, and procedure to comply with Department of Commerce regulations. Covers rules in Part I, Manual No. 60, Civil Air Regulations, as approved by Civil Aeronautics Board.)	Do.
*1–4	Machine Tools. Part I.—Lathe. (Nomenclature, practical use, and operation.)	Do.
*1–5	Machine Tools. Part II.—Milling Machine. (Nomenclature, practical use, and operation.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	[a] 1–6	Machine Tools. Part III.—Planers. (Nomenclature, practical use, and operation.)	No notes.
	[a] 1–7	Machine Tools. Part IV.—Shaper. (Nomenclature, practical use, and operation.)	Do.
	1–8	Aerodynamics. (Motion of air and force it exerts upon solids moving through air. How turbulence and skin friction oppose useful dynamic reaction.)	Do.
	1–9	Aircraft Engine Repairs—Classification of Engine Types. (Engines classified as to type, in line, V type, double V type, X type, opposed or flat type, radial type, and cubic inch displacement. Engine units such as cylinders, pistons, crankshafts, described. Suggestions as to factory methods of numbering cylinders. Reference, pars. 9–17, TM 1–405.)	Do.
	1–10	Introduction to Airplane Structures. (Air Corps designation of airplanes. Types, models, and series. Principal structural units illustrated. Emphasis on nomenclature of airplane structures. Markings and insignia. Reference, pars. 1–4, TM 1–410.)	Do.
	1–11	Forced Landings. (46 frames showing what to do. General procedure: Establish safe glide; secure field; maneuver into best position for landing. How procedure is put into practice.)	Do.
	1–12	Using an Aircraft Machine Gun. (Nomenclature and operation of cal. .30 and cal. .50 aircraft machine gun. Synchronization of guns with propeller. P35, P38, P39, and P43 equipped with the armament. Armament installations and methods of firing from different positions.)	Do.

*1–13	Use of Aerial Chemical Spray Tanks. (Airplane chemical spray tank for dissemination, during flight, of smoke screen materials. Preparation for filling E6R9 tank. Operation for releasing smoke and gas on flight mission. Precautions when filling and cleaning tank.)	Do.
*1–14	Browning Aircraft Machine Gun, Cal. .30, M2—Functioning of Parts During Recoil and Counterrecoil. (Operation of extractor assembly during recoil and counterrecoil. Functioning of breech lock, firing mechanism, firing pin, belt feeding mechanism, face of bolt. Operation of front barrel bearing assembly.)	Do.
*1–15	Principles of Internal Combustion Engines. (Operation of 4-cycle aircraft engine shown by photographs of cutaway sections and diagrams. Basic principles illustrated by common analogy.)	Do.
1–16	Structural Units of the Airplane. Fuselage, engine mount, wings, stabilizer, cowling, fairing. Internal construction of structural units, cutaway section views. Types of construction.)	Do.
1–17	Aircraft Storage Batteries. (Types of batteries used on airplane; operating principles. Battery described, container, plates, separators, electrolyte, vent system, terminals. Charging methods. Testing batteries in the field.)	Do.
1–18	Synchronization of Aircraft. Part I. Principles of Synchronization. (Synchronizing aircraft machine guns on airplanes. Gun synchronizer, trigger motor, tube and wire assembly which connects the two, control unit which enables pilot to fire at will. Relationship of the four units and principles.)	Do.
1–19	Use of Tow Target Equipment. (A–5 aerial camera target towed 600 feet in rear of plane and fired upon by gunners in other planes, by ground rifles and machine guns. A–6 antiaircraft gunnery target. Typical installation: C–5 windlass in B–40 airplane. C–4A tow target windlass.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS 1–20	Enlarging Aerial Negatives. (Enlarging, reducing, restitution of aerial negatives with Army Air Forces project printer, type B–9.)	No notes.
1–21	Assembling Aerial Photographic Mosaics. (Equipment used in photographic airplane making reconnaissance map. Films being processed, dried; negatives being numbered, checked with index map to determine how area has been covered. How prints are assembled; laying reconnaissance strip.)	Do.
1–22	Principles of Liquids and Gases. (Basic physical principles as applied to liquids; incompressibility, pressure transmission; application of principles. Pascal's law demonstrated to show mechanical advantage obtained by liquids. Application to hydraulic units of airplane. Laws of gases with respect to pressure, volume, temperature.)	Do.
1–23	Introduction to Airplane Instruments. (Principles of instrument operation. Instruments classified as pressure gages, tachometers, thermometers. Electrical and mechanical types.)	Do.
1–24	Hamilton Standard 2-position Propellers. (Purpose, use, limitations. Blades and hub, showing spider assembly, propeller piston, cylinder, counter-weight assembly; special parts for attachment to engine. Suggestions for inspection and maintenance.)	Do.
1–25	Processing Aerial Film. (Development, fixation, washing, drying, respooling aerial roll films, using type B–3A film developer assembly and type A–3 roll film dryer.)	Do.

1–26	Tachometers and Synchronism Indicators. (Operating principles of tachometers. Specific application on airplane. Inspection and maintenance. Application of systems of sychronization with use of tachometers on multiple-engine installations.)	Do.
1–27	Cylinder and Piston Assemblies. (Technical details. Application of thickness gage and micrometers used by airplane mechanics. Inspection and checking cylinder and piston defects.)	Do.
1–28	Curtiss Electric Propeller. (Propeller, both aluminum and steel blades. Particular attention to hub, showing electrical unit which operates blade or pitch angle of blade. Installation and removal. Some pictures on inspection and maintenance.)	Do.
1–29	Airplane Flight Control Surfaces and Wing Flaps. (Primary and secondary control surfaces; function of control surfaces with respect to fundamental axis of airplane; construction and maintenance of control surfaces. Inspection of control surfaces receives special attention—22 pictures and illustrations.)	Do.
1–30	Loading the Type T–3A Aerial Camera. (Step-by-step procedure to load type T–3A aerial camera, a multiple-lens camera used chiefly as an aid in construction of line maps.)	Do.
1–31	A Preliminary Study of the Identification of Aircraft. (Airplane reduced to basic parts: wings, fuselage, control surfaces, power plant, landing gear. Five points taken up in detail to provide knowledge necessary for identifying planes. Ten questions at end for review purposes.)	Do.
*1–32	The Sun. (Elementary study, in color, of origin of solar system; salient features of sun's characteristics; effect upon the earth.)	----------
1–33	Don'ts. Part I.—Day Flying. (68 frames: what not to do during daylight flying. Typical "don'ts" concern weather, operation instructions, engine.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	*1–34	Aircraft Engine—Carburetion. (Thorough description of carburetor, its construction and operation. Provisions for unusual conditions that airplane carburetors are subject to. A number of review frames at the end.)	
	*1–35	Connecting Rods and Crankshafts, Bearings and Crank Cases. (Purpose, essential parts, means of assembling and disassembling connecting rods, crankshafts, crank cases.)	No notes.
	1–36	Aircraft Gun Camera—Type H–3. (Opening frames present camera. Remaining parts: (1) assembling camera, visible parts labeled; (2) disassembly, parts labeled; (3) accessories; (4) film magazines; (5) general operation; (6) inspections; (7) lubrication; (8) installation on ship; (9) boresighting; (10) final check; (11) flight and use; (12) development of films; (13) interpretation; (14) storage.	Do.
	[a] 1–37	Operation of Bookkeeping Machine. Part I. (99 frames showing operation of National Cash Register billing machine, used by Army Air Forces to record details on stock card.)	Do.
	[a] 1–38	Points to Look for in the Identification of Aircraft. (51 frames: identifying aircraft by WEFT system—wings, engine, fuselage, tail.)	Do.
	1–39	Aerial Bombs. Part I.—Fuzing and Handling of Loaded Bombs. (Detailed cross section of both nose and tail fuzes; nomenclature of principal parts of explosive, fragmentation and demolition, and chemical bombs.)	Do.

1–40	Synchronization of Aircraft. Part II.—Care and Maintenance of Synchronizing Units. (59 frames: steps of disassembly and assembly; care and maintenance.)	Do.
1–41	Use of Wind Vane Aerial Machine-gun Sights. (37 frames: how to use sights; consideration of propellent force, gravity, drift due to rotation, air resistance.)	Do.
1–42	Flared Tube Connections. (Assembly of tubing in BC–1 airplane. Fabrication of tube flares over tightened assemblies and distorted flares and assemblies. Flare and fitting for proper assemblies.)	Do.
1–43	Synchronization of Aircraft. Part III.—Disassembly and Assembly of the Trigger Motor. (Title self-explanatory.)	Do.
1–44	Training and Duties of a Bombardier and Navigator. (Gives prospective bombardiers accurate picture of training and duties. Special reference to knowledge of mathematics required. Sample bombing mission: bombardier at work in nose of bomber; nearness of two propellers; does not take off nor land in nose of bomber; setting bombsight and releasing bombs; making reports, etc. Shows training in navigation, type of mathematics used, navigation mission, working conditions of navigators, where they sit in plane, etc.)	Do.
1–45	Aerial Bombs. Part II.—Fuzing and Handling of Practice Bombs. (Assembly and component parts of M38–A–2 practice bomb; inspection, preparation, operation of sand loading bomb. M1–A1 spotting charge. M37 parachute fragmentation bomb. M104 practice fuzes; operation of fuzing M37 with the M104.)	Do.
[a]1–46	Parachutes. Part II.—Construction and Care of the Parachute. Various kinds of parachute assemblies; three major units; construction of component parts. Second sequence illustrates proper and improper method of handling parachute.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	[a]1–47	Properties of Photographic Lenses. (Function of lens; pinhole lenses; focal length; size of image; necessity for focusing; inversion of image.)	No notes.
	1–48	Care and Cleaning of Photographic Lenses. (Care to insure proper functioning. Precautions in use. Method of cleaning.)	Do.
	[a]1–49	Parachutes. Part IV.—Maintenance of Parachutes, Folding and Packing. (Fitting and adjusting parachute to wearer; parachute assemblies which are reparable and can be overhauled, or which should be condemned; drop testing; cleaning and proper method of drying; system of storage and shipping.)	Do.
	[a]1–50	Valve and Ignition Timing. (Valve operation of 4-stroke cycle engine. Early and late timing specifications. Check and procedure on typical radial and liquid-cooled engines illustrate valve-timing principles. Method of checking ignition timing illustrated on standard types of engines.)	Do.
	1–51	Thermometer. (Use, operation, and maintenance of various types of aircraft thermometers.)	Do.
	1–52	Pressure Gages. (Application of pressure gages on airplanes; purpose and use. Bourdon mechanism, diaphragm mechanism, aneroid mechanism.)	Do.
	1–53	Generator and Regulator Systems—Principles. (Required daily 25- and 50-hour, 100-hour and special inspections.)	Do.
	1–54	Synchronization of Aircraft. Part IV.—Inspection, Care, and Maintenance of the Impulse Tube and Wire Assembly and Control Assembly. (Step-by-step procedure.)	Do.

1–55	Nose Assemblies. (Typical nose section assemblies: propeller reduction gears, installation of thrust bearings, oil transfers and rings, propeller oil control valves. Radial engine complete assemblies. Methods of checking fire orders.)	Do.
[a]1–56	Parachutes. Part III.—Maintenance of Parachutes—Inspection. (Inspecting service seat type parachute; routine and complete inspection.)	Do.
1–57	Loading Type A–1B Camera Magazine. (Step-by-step procedure of loading A–1B magazine in K–3B or K–12 aerial camera.)	Do.
1–58	Fuel Level Gages. (Both mechanical and electrical gages; operating principles; inspection and maintenance of types employed in Army forces.)	Do.
1–59	Mathematics for Navigators. (Topics included in refresher course in mathematics for bombardiers and navigators. Diagrams and illustrations on logarithms, trigonometric functions and solution of triangles, slide rule, definition of terms.)	Do.
1–60	Aircraft Engine Pumps. (Coolant, fuel and oil pumps. Relief valve. Various types of vacuum pumps. Reference pars. 30–33, TM 1–405.)	Do.
1–61	Formation Flying. (Title self-explanatory.)	Do.
1–62	Hamilton Standard Constant Speed Propeller. (Component parts; principles of operations; maintenance and inspection.)	Do.
1–63	Effective Study Methods (Study conditions and techniques; assignments and note taking.)	Do.
1–64	Intake and Exhaust Systems. (Title self-explanatory.)	Do.
1–65	Aerial Bombs. Part III.—Equipment for Loading. (Title self-explanatory.)	Do.
1–66	Aircraft Engine Troubles—General. (Common engine troubles in compression and ignition systems; causes for lack of compression; ignition troubles from improper or defective spark plugs.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS 1–67	Aerial Navigation—Dead Reckoning. Part I.—Radius of Action Returning to Same Base. (Determining factors, terminology, ideal solution.)	No notes.
1–68	Aerial Navigation—Dead Reckoning. Part II.—Radius of Action Returning to Alternate or Moving Base. (Ideal solution through development of factor diagram; effect of data change.)	Do.
1–69	Cross Country by Maps. (Cross country problem shows general principles. Conventional symbols and logs.)	Do.
1–70	Aerial Traffic Patterns. (Reasons, check points, field traffic and squadron patterns, night flying.)	Do.
1–71	System of Procurement and Exchange of Aircraft Parts. (Broken parts on engine which require replacement; procurement from squadron supply depot, and repair. Schematic diagram shows possible routes of item, and parts each section may play in supplying parts.)	Do.
1–72	Aircraft Engine Operation. (Starting, warming up, ground testing, stopping engines. Operation under various flight conditions.)	Do.
1–73	Aircraft Inspection Procedures. (Shows aviation cadet procedure by which his airplane is maintained.)	Do.
1–74	Aircraft Engine Lubricants (color). (Physical properties of lubricants and their application to aircraft.)	

1–75	Hamilton Standard Hydromatic Propeller. (Special features, purpose, use, limitations. Hub, dome assembly, distributor valve removal and installation. Suggestions on inspection and maintenance requirements.)	Do.
1–76	Aircraft Maintenance Inspection. Part IV.—Inspection of Camera. (Photographer adjusting and inspecting camera prior to take-off, and entering symbols on Form No. 41.)	Do.
1–77	Aircraft Engine Fuels (color). (Title self-explanatory.)	Do.
1–78	Identification of Aircraft—British Blenheim Types. (Title self-explanatory.)	Do.
1–79	Identification of Aircraft—ME–109F, Messerschmitt. (Title self-explanatory.)	Do.
1–80	Antennas. (Sound and light wave phenomena; production of radio waves; electromagnetic spectrum; standing waves on antennas; loading of antenna; ground systems, feeding antenna. Propagation of radio waves; radiation patterns; reception with loop antenna; radio range stations and aircraft antennas.)	Do.
1–81	Aircraft Maintenance Inspection. Part III A.—Inspection of Armament Equipment—Guns. (Routine in preflight inspection.)	Do.
1–82	Aircraft Engine Troubles—Starting. (Difficulties: cold weather, carburetion, compression, ignition, starter.)	Do.
1–83	Parachutes. Part VIII.—Instruction for Using Parachutes. (How to handle and inspect immediately before use; how to make jump; how to land on ground and in water.)	Do.
*1–84	Aerial Navigation—Dead Reckoning Problems. Part III.—Interception. (Problems of interception; plotting course while on assignments of interception.)	Do.
*1–85	A–2 Bomb Rack Release. (Electrical and mechanical structures; methods of loading bombs and testing apparatus for mechanical flares.)	Do.
*1–86	Alternating Currents. (Title self-explanatory.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS *1–87	M–103 Nose Fuze. (Fuze and integral parts: primer, denoter, booster.)	No notes.
*1–88	Aerial Navigation. Part V.—Graphic Solutions of Radius of Action. (Computations and construction for distance-fuel graph; use in preflight computations with wind zones. Interpretation of graph with reference to actual flight and critical points.)	----------
*1–89	Aerial Navigation—Dead Reckoning. Part IV.—Patrol and Search. (Defines search mission; responsibility of navigator; terms appearing in search and patrol orders. Factors affecting search, methods, common search and patrol patterns.)	----------
*1–93	Glider Training. Part IV.—Tow Ropes and Cables. (Ropes and cables employed in operation of gliders; methods of splicing, repair of breaks, straight splicing, eye splicing, etc. Airplane and glider releases treated in latter half of film.)	----------
*1–94	Glider Training. Part V.—Launching Equipment. (4 types of launching equipment, with pre-take-off, take-off, and releasing procedure for each. Safety precautions prior to and after take-off.)	----------
*1–96	M–106 Tail Fuze. (Description, use, installation, sequence of operation, precautions in handling this arming pin, delay-action fuze. Component subassemblies and function of each. Pertinent installation, arming and removal data.)	----------

*1–98	Elementary Pilot Training. Part II.—Effect of Controls. (Essential introductory lessons for aviation cadets, what happens when they depress stick, kick rudder to left, etc. Correlates movement of stick and rudder with sensations they receive. Emphasis to eliminate "manhandling" of controls. Illustrates how well airplane reacts to relaxed operator.)	
*1–99	Aerial Bombs. Part IV.—Method of Loading Bombs. (Procurement, arming, loading, inspection, and safety precautions associated with handling of aerial bombs. Providing B–18 and B–17E with required bomb load, complete procedure of ordnance and Air Corps personnel.)	
*1–100	Starting Systems—Maintenance. (Routine daily, preflight and periodic inspection and maintenance of direct-cranking, inertia (hand and electric), cartridge-type aircraft starting systems and portable field energizer; installation and method of seating new brushes; commutator care.)	
*1–101	Aircraft Engine Maintenance. (Preflight, daily, periodic inspection and maintenance of both radial and liquid-cooled aircraft engines. Ground operation of engines; instrument and controls checks; ignition checks; keeping maintenance forms records.)	
*1–102	Printing Aerial Film. (Title self-explanatory.)	
*1–103	Aerial Navigation—Star Identification. Part I.—Names of Constellations and the Navigational Stars. (Names of principal navigational stars; how to recognize them by reference constellations and geometric patterns formed by stars.)	
*1–104	General Principles of the Propeller. (Function and operation. Elements of designs of propeller shape with reference to airfoils and linear velocities. Thrust, pitches, angles, slip feathering and wind milling. Propeller development traced and modern construction illustrated for several types. Normal and abnormal stresses.)	

Film strips—Continued

	Serial No.	Subject	Remarks
FS	*1–105	Elements of Electricity as Applied to the Airplane. Part I. (Elementary and general. Permanent and temporary magnets and their fields; terrestrial magnetism. Electricity, the hydraulic analogy, definitions, sources, and conductance. Electromagnetic principles. Ohm's law; calculations of series and parallel circuits.)	
	*1–106	Elements of Electricity as Applied to the Airplane. Part II. (Simple testing procedure and test equipment for airplane circuits: San Antonio Air Depot continuity tester, voltmeter, test lamp, Hickok volt-ohm meter. Circuit diagrams, pictures of busbars, fuses, switches. Installation of lugs; typical trouble shooting procedure. Difficult electrical repair a specialist job.)	
	*1–107	Airplane Hydraulic Systems—P–40E–1. Part I.—Operations. (Hydraulic system of P–40E–1 and operation of all component parts. Four principle hydraulic units: main landing gear, tail wheel, gun chargers, wing flaps. Operation of main hydraulic power system.)	
	*1–108	Airplane Hydraulic Systems—P–40E–1, Inspection and Maintenance. (Periodic inspection and maintenance. Complete checking, methods of bleeding and purging systems of air, replenishing hydraulic fluid, safety precautions. Parts subjected to wear and deterioration, requiring frequent adjustment; means of correction. Film adapted for training mechanics.)	

*1–110	The Army Air Corps. (Official song of U. S. Army Air Forces. Film presents words, two lines per frame; handsomely decorated backgrounds. Excellent for bringing up volume in group singing.)	
*1–111	Installations—Typical Instrument Installations in Cockpits. (Typical installations of instruments, panels, hardware; inspection and maintenance. General problems of instrument mountings and difficulties most apt to be found. Care given installations involving hardware for tubing connections, electrical connections to instruments, all connections passing through firewall.)	
*1–112	Aircraft Engine Troubles—Operating. (Most common engine troubles: causes, results, trouble shooting, preventive action, repair. Ignition, fuel, oil, generator, cooling systems; specific malfunctions, remedial instructions.)	
*1–113	Hydraulic System Units. Part I.—A Simple System. (Operation of hydraulic system of airplanes. Photographs, cutaways, and sketches of actuating pumps, emergency hand pump, relief valves and standpipes, pressure gage, pressure gage snubber, reservoir, etc., and operation; system operation as a whole.)	
*1–114	Identification of U. S. Aircraft—North American B–25 Medium Bomber. (Flight views pointing out identifying characteristics of wings, engines, fuselage, and tail.)	
*1–123	British Reconnaissance Types. Part I. (Identification, showing front, side, plan and perspective views in silhouette, with outstanding characteristics labeled and arrowed. Types featured: Short "C" class flying boat, short "G" class, Anson, Albacore.)	

Film strips—Continued

	Serial No.	Subject	Remarks
FS	*1–124	British Trainer Types. (Identification, showing front, side, plan and perspective views in silhouette, with outstanding characteristics labeled and arrowed. Types featured: Battle "T", Botha, Miles Master Mk. III.)	
	*1–125	British Fighter Types. (Identification, showing front, side, plan and perspective views in silhouette, with outstanding characteristics labeled and arrowed. Types featured: Beaufighter, Beaufighter II, Mohawk III and IV, Whirlwind, Bell Airacobra.)	
	*1–126	British Fighter Types. (Identification, showing front, side, plan and perspective views in silhouette, with outstanding characteristics labeled and arrowed. Types featured: Vultee Vanguard 48, Roc, Buffalo, Kitty Hawk.)	
	*1–127	British Bomber Types. Part I. (Identification, showing front, side, plan and perspective views in silhouette, with outstanding characteristics labeled and arrowed. Types featured: Whitley, Whitley IV and V, Liberator, Liberator II.)	
	*1–128	British Bomber Types. Part II. (Identification, showing front, side, plan and perspective views in silhouette, with outstanding characteristics labeled and arrowed. Types featured: Wellington V, Albermarle, LB 30–A, Boston.)	
	*1–129	British Bomber Types. Part III. (Identification, showing front, side, plan and perspective views in silhouette, with outstanding characteristics labeled and arrowed. Types featured: Beaufort, Stirling, Douglas B–18–A, Digby, Lancaster.)	

*1–130	British Bomber Types. Part IV. (Identification, showing front, side, plan and perspective views in silhouette, with outstanding characteristics labeled and arrowed. Types featured: Hudson, Vengeance, Battle.)	
*1–131	British Bomber Types. Part V. (Identification, showing front, side, plan and perspective views in silhouette, with outstanding characteristics labeled and arrowed. Types featured: Wellington–Mk. I, Wellington–Mk. II, Wellington–Mk. III and IV.)	
*1–132	British Bomber Types. Part VI.	
*1–148	Aircraft Compasses	
*1–158	Parachutes—Fitting and Adjusting Harness	
*1–160	Radiation	
*1–163	Pitot-Static Instruments	
*1–165	Harmonization of Guns and Sights	
2–1	Care of Animals. (Elementary hipology; feeding, grooming, preservation of horseflesh during service in field; care after long periods of strenuous effort (marches, etc.); animal records; diagnosis and treatment of ordinary ailments.)	Notes.
[a] 2–7	Horsemanship Instruction, Mounted—Suppling Exercises and Riding Hall Movements. (Suppling exercises pictured; basic riding hall movements diagrammed.)	No notes.
2–8	Horsemanship Instruction, Mounted—Jumping and Cross-country Riding. (Adjustment of equipment for jumping; gymnastics of jump; use of half-saddle position while mounted; cross-country riding.)	Do.
2–9	Horsemanship Instruction—Shoeing Animals. (Examination for need of shoeing, normal shoeing, inspection of newly shod horse, corrective shoeing, horseshoeing equipment.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS 2–10	Thompson Submachine Gun, Caliber .45, M1928A1, Mechanical Training. Part I. (Nomenclature, disassembly of groups, care and cleaning, reassembly, ammunition, method of transport.)	No notes.
2–11	Horsemanship Instruction—Mounting, Dismounting, and the Military Seat. (Procedure of mounting and dismounting. Diagram showing break-down of military seat.)	Do.
2–12	Horsemanship—Blanket, Saddle, and Bridle. (Correct way to saddle, unsaddle, bridle, unbridle, blanket, surcingle; purpose and correct adjustment of lip thong.)	Do.
*2–13	Horsemanship Instruction—Stable Management. (Instruction of cavalry unit in construction of garrison and field picket lines; correct ventilation; correct grooming; use of blankets; use of restraint when handling animals.)	Do.
*2–14	Horsemanship Instruction—Feeding and Watering. (Digestive system of animals. Rules for feeding, constituents, proportions, preparation. Rules for watering under average conditions.)	Do.
*2–15	Horsemanship Instruction, Mounted—Aids and Gaits. (Using aids to change gait of horse from any of the following beats: walk, slow trot, gallop.)	Do.
*2–16	Organization of the Army of the United States. (Administrative establishment from Commander-in-Chief to combat division.)	Do.
*2–17	Browning Machine Gun, Cal. .30, M1919A4—Stoppages and Immediate Action, Technique of Fire.	Do.

*2–18	Cavalry Weapons—Browning Machine Gun, Caliber .30, M1919A4—Headspace Adjustment, Care and Cleaning, and Mechanical Functioning. Adjusting headspace; care, cleaning, mechanical functioning.)	----------
* 3–1	Defense Against Chemical Attack—Chemical Agents and First Aid. (Characteristics of chemical agents. How to recognize various agents. First-aid treatment of gas casualties.)	Notes.
* 3–2	Effects of Weather, Terrain, Weapons, and Tactics. (General effect of weather and terrain on employment of chemical agents; characteristics of chemical weapons and ammunition; basic principles covering tactical employment of chemical agents.)	Do.
* 3–3	Protection and Protective Equipment. (Individual and collective protection devices, including masks, canisters, protective clothing, decontamination materials and equipment, protective shelters, etc.)	Do.
* 3–4	Nomenclature and Air Flow System of the Standard Service Gas Mask. (Detailed nomenclature. Passage of air through mask.)	Do.
* 3–5	Nomenclature and Air Flow System of the Standard Training Gas Mask. (Detailed nomenclature. Passage of air through mask.)	Do.
3–6	Nomenclature and Parts of Miscellaneous Gas Masks. (Nomenclature of miscellaneous military masks and respirators.)	Do.
* 3–7	Principles of Gasproofing for Shelters. (Two general types of gasproof shelters (ventilated and unventilated) with notes on improvisation.)	Do.
* 3–8	Nomenclature and Air Flow System—Horse Gas Mask, M4 and M5. (Nomenclature for structural differences, components, parts, use with equipment, air flow system, packing.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	3–9	Livens Projector, MI. (Nomenclature and emplacement of Livens projector MI; nomenclature and assembly of Livens projector shell M11; preparation and weights of ammunition; wiring for firing; laying projector; testing wired circuit; packing and marking; accessories.)	No notes.
	3–11	Hand Decontaminating Apparatus M1 and M2. (Use, description, storage, shipment, care, safety precautions of apparatus and accessories.)	Do.
	3–14	Portable Chemical Cylinder. (Nomenclature, assembly, instructions for wiring for electrical firing; packing and shipping; cleaning, testing, drying; filling and charging cylinder.)	Notes.
	*3–15	Protective Clothing—Types of Protective Clothing—Permeable and Impermeable. (Chemically treated outer and underclothing, socks and shoes; adjustment for maximum protection against gas; treatment for preservation and decontamination.)	No notes.
	*4–1	Characteristics of Naval Targets. (77 frames briefly survey types of naval vessels in principal navies of world. Emphasis on identification. Representative views with pertinent data as to displacement and armament. Notes contain much detailed information not readily shown on frames.)	Notes.
	*4–2	Identification of Aircraft. (61 frames deal briefly with identification by sound, markings, structure, silhouettes. Tactical formations. Types of aircraft now in use in principal air forces of the world. Accompanying notes contain data not readily shown on frames; also International marking system for aircraft.)	Do.

4–6	Seacoast Artillery Weapons and Matériel. Part I. (Classification; construction; supports; carriages and mounts; recoil and counterrecoil, elevating, and traversing mechanisms.)	Do.
4–7	Seacoast Artillery Weapons and Matériel. Part II. (Obturation; breechblocks; firing mechanisms; loading mechanisms.)	Do.
4–8	Seacoast Artillery Weapons and Matériel. Part III. (Sights; guns, fixed and mobile; subcaliber guns and tubes; seacoast searchlights.)	Do.
*4–13	Antiaircraft Searchlight. Part I.—Sperry, M1941—Introduction, Nomenclature, Principal Electrical Circuits, the Antiaircraft Problem . (Essential parts; principal electrical circuits; antiaircraft problem.)	Do.
4–14	Aircraft Searchlight—Sperry M1941—Ventilating System, Zero Reader, Follow-up System. (Parts and operation.)	Do.
4–15	Fire Control and Position Finding, Antiaircraft Artillery. Part I—Elements of Data. (Finding data for a point in space so that shell may burst at this point.)	Do.
*4–16	Antiaircraft Gun and Accessories. Part II.—90-mm Antiaircraft Gun. Section I.—Main Elements Except Breech Mechanism and Related Parts. (Proper placement of guns; parts and mechanism of mount, trailer, breech.)	Do.
*4–17	Fire Control and Position Finding, Antiaircraft Artillery. Part II. (Elements of data for automatic weapons and gunnery problems in regard to moving targets.)	Do.
*4–18	155-mm Gun. Part II.—Matériel. Section I. (Divided into two parts. Brief description of historical backgound and general characteristics of gun, carriage, breech, and accessory parts; practical questions and answers for matérial covered.)	Do.
*4–19	155-mm Gun Regiment. Part II.—Matériel. Section II. (Parts and matériel; mechanical assembly and disassembly for parts of carriage, care, recuperator; test on nomenclature.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS *4–20	155-mm Gun. Part II—Matériel. Section III. (Parts and functions of telescope mount, gunner's quadrant, panoramic telescope, limber, 37-mm subcaliber mount and 37-mm tank cradle; different projectiles used in gun, methods of marking and pointing projectiles.)	Notes.
*4–21	Antiaircraft Artillery Accessories. Part I.—3-inch AA Gun M3, Mount M2A2. (Traveling position, brake action, emplacement and leveling of gun, equilibrator adjustment, elevation adjustment and operation. Closing frames give statistical data and questionnaire.)	No notes.
*4–22	Antiaircraft Searchlight—Sperry M1941—Distant Electrical Control System, Lamp and Lamp Control Mechanism.	Do.
*4–23	Antiaircraft Searchlight—General Electric M1941—Introduction, Nomenclature, Principal Electric Circuits, the Antiaircraft Problem.	Notes.
*4–24	Position Finding and the Linear Speed Method Theory. (Cartoons give continuity to diagrams and photographs designed to solve problems of finding present position and predicting future positions. True-false quiz added.)	No notes.
*4–25	Antiaircraft Searchlight—General Electric M1941—Ventilating System, Lamp and Lamp Control Box. (Diagrammatic description and captions.)	Do.

*4–26	Antiaircraft Artillery, Automatic Weapons—Director M5. (Nomenclature, principles, theory of operation, limits of direction; generating unit, packing chest. Questions on features and principles.)	Do.
*4–27	Fire Control and Position Finding, Seacoast Artillery. Part I.—Basic Principles. (Explanation of azimuth; knowledge of angles and their measurement; use of horizontal angles, computation of horizontal distance measured in yards.)	----------
*4–28	Identification of Merchant Ships. (Classifying merchant ships according to type and characteristics; information translated into symbols.)	Notes
*4–29	Antiaircraft Artillery, Automatic Weapons—Browning Machine Gun, Cal. .50, M2, Water Cooled, and Mounts. (General views of cal. .50 machine gun M2; mounts and nomenclature; precautions to be taken before, during, and after fire; immediate action in case of stoppage.)	No notes
*4–31	Coast Artillery Ammunition. Part I.—General Information. (Divided into four sections. Sec. I defines a round of ammunition, discusses 3 elements of ammunition; sec. II, kind of powder and where used; sec. III, forms of packaging ammunition; sec. IV, general information about powder, requirements in military explosives.)	Do.
* 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.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS [a] 5–3	Camouflage. (Examples of World War practice and common errors. Elements of modern practice. Primarily for ROTC instruction.)	Notes.
5–5	Portable Bridges. (H–10 and H–20 steel truss bridges.)	Do.
[a] 5–6	Obstacles. (Examples of World War practice. Modern wire obstacles and methods. Antimechanized obstacles of wire, ditches, logs, posts, rails, mines, blocks.)	Do.
[a] 5–7	Demolitions. (Examples of World War demolitions. Modern equipment and procedure.)	Do.
5–8	Assault Boats and Footbridges. (Title self-explanatory.)	Do.
5–9	Ponton Bridges. (Examples of World War bridges. Modern equipment and procedure.)	Do.
5–10	Present Day Camouflage. (Special film strip for special course to be conducted at Ft. Belvoir, Va., for intelligence officers.)	Do.
[a] 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.
6–1	Field Artillery Wire Communication—Telephones and Switchboards. (Title self-explanatory.)	Do.
6–2	Field Artillery Wire Communication—Telegraphy. (Simplex and phantom circuits. Wire installations and maintenance. Field artillery wire systems.)	Do.

6–3	Field Artillery Firing—Preparation of Fire. (Determination of data with instruments and from maps. Use of plotting equipment. Restitution from air photos. Schedule fires. MDC. Survey procedure.)	Do.
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.)	Do.
6–6	Field Artillery Firing—Conduct of Fire. Part III. (Air observation and liaison methods.)	Do.
6–7	Field Artillery. Elementary Gunnery. (Interior and exterior ballistics, dispersion, effect of projectiles, in elementary firing.)	Notes.
6–8	Field Artillery Weapons. (Cannon now in service, showing development and modification since 1918.)	Do.
6–9	Field Artillery Prime Movers and Vehicles. (Reconnaissance vehicles, trailers, wire carrying and laying vehicles, ammunition carriers.)	Do.
*7–1	U. S. Rifle, Cal. .30, M1. Part I.—Mechanical Training, Care and Cleaning, Functioning. (Characteristics of M1 rifle; disassembling into groups; ammunition; care and cleaning; charts and pictures function of the piece.)	No notes.
*7–2	U. S. Rifle, Cal. .30, M1. Part II.—Mechanical Training, Stoppages and Immediate Action, Service of the Piece. (Charts causes and corrections of malfunctions. Steps of immediate action, loading and unloading, safety precautions.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS *7-3	U. S. Rifle, Cal. .30, M1. Part III.—Marksmanship. (Pictures and charts preparatory marksmanship training, 1,000-inch range practice, known distance range practice, including sight picture, triangles, use of 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. (General types, construction of each; throw from standing, kneeling, prone positions; throwing range, courts; coach and pupil method; score card; safety precautions.)	Do.
*7-5	U. S. Rifle, Cal. .30, Model 1903. Part I.—Description, Disassembling, Assembling, Care and Cleaning. (Title self-explanatory.)	Do.
*7-6	U. S. Rifle, Cal. .30, Model 1903. Part II.—Functioning, Individual Safety Precautions. (Loading magazine and chamber, extraction of empty case, unloading, use of cut-off, safety lock, cocking piece, safety precautions.)	Do.
*7-7	Infantry Weapons and Their Characteristics—Individual Weapons. (Characteristics and use of U. S. rifle, cal. .30, M1, M1903, M1903A1; U. S. rifle, cal. .22, M1922M1; bayonet M1905; Browning automatic rifle, cal. .30, M1918, M1918A1, M1918A2; automatic pistol, cal. .45, M1911, M1911A1; hand grenade Mk II, CN-DM M6, CN M7.)	Do.

*7–8	Infantry Weapons and Their Characteristics—Crew-served Weapons. (Characteristics and use of Browning machine gun, cal. .30, M1917, M1919A4; Browning machine gun, cal. .50; 37-mm gun M1916; 37-mm antitank gun M3; 60-mm mortar M2; 81-mm mortar M1.)	Do.
*7–9	Infantry Signals. Part I.—Whistle Signals, General Arm-and-hand Signals. (Signals such as *forward, halt, commence firing,* and *cease firing,* used by all infantry units.)	Do.
*7–10	Infantry Signals. Part II.—Signals for Crew-served Weapons. (Hand-and-arm signals such as *action, elevate,* and *off carts* applicable to crew-served weapons of the infantry.)	Do.
*7–11	60-mm Mortar M2. Part I.—Organization, Description, Disassembling, Assembling, Care and Cleaning. (Characteristics, employment, principal parts, and care.)	Do.
*7–12	60-mm Mortar M2. Part II.—Sighting Equipment, Instruments, Ammunition, Safety Precautions, and Misfires. (Aiming stakes; details of M4 sight; field glass, type EE; lensatic compass, modified prismatic type; ammunition types, shell markings, shell container, ballistic data, propelling charge, cotter ring and pin; safety precautions and misfires, method of removing shell.)	Do.
*7–13	60-mm Mortar M2. Part III.—Placing Mortar in Action. (Transportation, hand carrying of equipment, training in duties of each man. Squad mounting mortar, firing, removing misfire, going out of action. Mounting on steep slopes.)	Do.
7–14	Manual of the Saber. (How and when each movement is executed. *Draw, carry, present, order, parade rest, port saber,* use of the saber knot, and *return saber.*)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	[a] 7–15	60-mm Mortar M2. Part IV.—Marksmanship. (Method of instruction, and execution by mortar crew, using exercises outlined in FM 23–85. Sight setting, laying for direction, laying for elevation, use of range table, establishing direction of fire, loading, range estimation, fire orders, sensing, conduct of fire, preparation and use of range cards, use of progress chart.)	No notes.
	[a] 7–16	Automatic Pistol, Cal. .45, Models 1911, 1911A1. Part I.—Mechanical Training Description, Nomenclature, Ammunition. (FM 23–35.) (Mechanism, principal parts, magazine, cleaning equipment of pistol; construction, packing, ballistics of ball cartridge.)	Do.
	[a] 7–17	Automatic Pistol, Cal. .45, Models 1911, 1911A1. Part II.—Disassembling, Assembling, Care and Cleaning. (FM 23–35.) (Disassembly sufficient for ordinary field cleaning; complete disassembly and assembly of the piece and magazine; care and cleaning, in garrison, after firing, and in combat.)	Do.
	[a] 7–18	Pitching and Striking the Pyramidal Tent. (Steps in detail. Locally made tent frames. Sibley stove installed in tent. Diagram with tent nomenclature.)	Do.
	[a] 7–19	Pitching and Striking the Wall Tent. (Step-by-step procedure in pitching, striking, folding wall tent with fly. Diagram with tent nomenclature.)	Do.
	7–20	Arm and Hand Signals for Motor Transport. (Diagrams civilian hand signals, electrical and mechanical signal, standard infantry signals from FM 22–5.)	Do.

7–21	Antimechanized Defense. Part I.—Passive Means of Defense. (Construction and relative effectiveness of many types of obstacles, natural and artificial, employed by infantry: log hurdles, antitank ditches, gullies, shell holes, pile obstacles, tetrahedrons, abatis, timber walls, cribs, wire cables, concertinas.)	Do.
7–22	Pitching and Striking the Latrine Screen. (Detailed procedure in pitching, striking, and folding. Diagram of pitched screen, with nomenclature.)	Do.
7–23	Manual of the Guidon. (FM 22–5.) (Design, display, and manual of the guidon: *Order, carry, facings, rests, present, salute, double time,* and position of guidon bearer in formation.)	Do.
7–24	81-mm Mortar M1. Part I.—Mechanical Training, Description, Mounting, Dismounting, Care and Cleaning. (FM 23–90.) (Characteristics, data, nomenclature of mortar and ammunition. Disassembling, assembling; steps of mounting and dismounting, establishing direction, placing base plate, actions of No. 1 and No. 2; care and cleaning after firing and in case of gas attack.)	Do.
7–25	81-mm Mortar. Part II. (M4 sight in detail, nomenclature, operation, mounting, use in laying in elevation and deflection, dismounting, sight case, care and cleaning. Use of firing and deflection tables; laying mortar without sight; spare parts and accessories. Fire-control instruments, nomenclature and use of compass, field glass, wire communication equipment of mortar squad.)	Do.
7–26	81-mm Mortar. Part III. (81-mm ammunition: nomenclature, propelling charge, stabilizing fins, fuzes, method of packing; safety precautions before and after mounting, before and during firing; removal of misfire from mortar; causes of misfires.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	[a] 7–27	81-mm Mortar. Part IV.—(Training for placing mortar in action. Carrying mortar and equipment; unloading from truck; equipment carried by members of squad; mounting mortar for action; laying and firing mortar, and handling ammunition.)	No notes.
	[a] *7–28	Preparatory Marksmanship Training. (Sighting and aiming, position, trigger squeeze, rapid fire, effect of wind and sight changer, examination before range practice.)	Do.
	[a] *7–29	Identification of Foreign Mechanized Vehicles. Part II.—Identification of Italian Armored Cars and Tanks. (General shape, size, suspension and special equipment of the following Italian armored vehicles and tanks: armored cars, Fiat Carden—Lloyd scout car, Fiat armored car, light tanks, and medium tanks.)	Do.
	[a] *7–30	Identification of Foreign Mechanized Vehicles. Part III.—Identification of Japanese Tanks and Armored Cars.	Do.
	7–31	Browning Automatic Rifle, Cal. .30, M1918, M1918A1, M1918A2. Part I. (General characteristics, data, nomenclature of Browning automatic rifle; development from M1918 through M1918A1 to M1918A2, indicating basic differences; firing at ground and air targets; ammunition; field disassembling and assembling, each movement of disassembling illustrated.)	Do.
	7–32	Browning Automatic Rifle, Cal. .30, Models 1918, 1918A1, 1918A2. Part II. (How to disassemble and assemble 1918A2 bipod; two methods of removing and replacing firing pin without disassembling rifle; removing and replacing extractor without disassembling rifle; disassembling and assembling magazine.)	Do.

[a] 7–33	Browning Automatic Rifle, Cal. .30, M1918 and M1918A1. Part I.—General Description, Disassembling and Assembling. (General characteristics of rifle. Details disassembly authorized to be performed by individual soldier without supervision; includes disassembly of operating group and trigger mechanism; assembling in reverse order indicated but not illustrated. Checks for correct assembly of trigger mechanism.)	Do.
[a] 7–38	U. S. Rifle, Cal. .30, M1903. Part III.—Marksmanship, 1st, 2d, and 3d Exercises. (FM 23–10.) (Method of instruction, executing exercises with sight bar, alining on target, making triangles. Correct and incorrect sight pictures. Necessity of careful, faithful practice.)	Do.
*7–39	Rifle Marksmanship—Range Practice—U. S. Rifle, Cal. .30, MI. Part I.—Safety Precautions. (Precautions necessary for conduct of firing on range, upon arrival at range, to be taken before, during, and after firing.)	Do.
[a] *7–40	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, MI. Part II.—Second Step Position Exercises.	Do.
*7–41	Preparatory Marksmanship Training, U. S. Rifle, Cal. .30, M1. Part IV.—Rapid Fire. (FM 23–5). (Important elements to be considered in rapid fire exercises of preparatory marksmanship training; general rapid fire exercise procedure; reloading rifle, duties of coach.)	Do.
[a] 7–45	Browning Machine Gun, Cal. .30, M1917. Part I. (General characteristics. Direct, indirect, overhead fire; use in attack, in defense, against airplanes; blank firing attachments. Nomenclature, tripods, cooling system. Organization of heavy weapons company.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS [a] 7–46	Browning Machine Gun, Cal. .30, M1917. Part II.—Disassembling, Assembling, by Groups. (FM 23–55.) (Removal of backplate, bolt handle, bolt, lock frame, barrel extension and barrel, latch and cover. Replacing groups; making headspace adjustment.)	No notes.
7–47	Browning Machine Gun, Cal. .30, M1917. Part III. (Detailed disassembling and assembling of bolt, lock frame, barrel extenion, cover.)	Do.
7–48	Browning Machine Gun, Cal. .30, M1917. Part IV. (Disassembling shock absorbing groups, belt-holding pawl, steam tube; packing breech and muzzle ends of barrel; changing parts (time an element), parts not requiring removal of barrel, parts requiring removal of barrel.)	Do.
[a] 7–49	Browning Machine Gun, Cal. .30, M1917. Part V. (Procedure for keeping gun in good working condition. General care and cleaning; care before and after gas attack; points to be observed before, during, and after firing.)	Do.
[a] 7–50	Browning Machine Gun, Cal. .30, M1917. Part VI.—Mechanical Functioning: Loading, Unloading, Clearing Gun, Trigger Action, Backward Movement of Parts. (Operation of the trigger mechanism, mechanical functioning of each part and group of parts during first (backward) phase of movement.)	Do.

* 7–51	Browning Machine Gun, Cal. .30, M1917. Part VII.—Mechanical Functioning (Continued): Forward Movement of Parts, Automatic Fire. (Mechanical operation, detail functioning of each part and group of parts during second (forward) phase of movement.)	Do.
* 7–53A	Browning Machine Gun, Cal. .30, M1917. Part IX, Section 1.—Training for Placing the Gun in Action—Gun Drill. (Securing equipment; forming crew; changing numbers and duties; examining gun equipment; putting gun into action; clearing gun; taking gun out of action.)	Do.
* 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.)	Do.
* 7–57	Browning Machine Gun, Cal. .30, M1917. Part XIII. (Target designation; 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.)	Do.
* 7–58	Browning Machine Gun, Cal. .30, M1917. Part XIV. (Technique of fire; direct laying overhead fire.)	Do.
7–60	Browning Machine Gun, Cal. .30, HB, M1919A4 (Ground). Part I.—Mechanical Training; Description; Disassembling; Assembling by Groups. (FM 23–45.) (Characteristics, principle of operation, mount, nomenclature, use, disassembling and assembling by groups.)	Do.
* 7–61	Browning Machine Gun, Cal. .30, HB, M1919A4 (Ground). Part II. (Detailed disassembling and assembling of bolt lock frame barrel extension and cover; disassembling shock absorbing group and belt holding pawl; changing parts when time is a factor.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS 7–63	Browning Machine Gun, Cal. .30, M1917. Part VIII, Section I.—Stoppages and Immediate Action. (Detail methods in reduction of machine-gun stoppages by procedure of immediate action.)	No notes.
*7–64	Browning Machine Gun, Cal. .30, M1917. Part VIII.—Tripod Mountings, Accessories, Fire Control Instruments, and Ammunition. (Accessories of equipment and instruments which facilitate preparation and control of fire; use of optical instruments; ammunition used.)	Do.
7–65	Browning Machine Gun, Cal. .30, M1917. Part XI. Section I.—Machine-gun Marksmanship, Sighting and Aiming Exercises. (Equipment for instruction within each squad; use of sighting bar; correct alinement of machine-gun sights on a target.)	Do.
7–68	37-mm Antitank Gun M3. Part I.—Characteristics and Description. (General characteristics, data, nomenclature of gun M3 mounted on M4 carriage; moving gun by carrier and by hand; ease in manipulating and firing gun; types of ammunition used; targets engaged; organization of antitank company and squad.)	Do.
[a] 7–69	Browning Machine Gun, Cal. .50, HB (Flexible) M2, Ground. Part I.—Mechanical Training—Description, Characteristics. (Introductory. Principal parts, characteristics, uses, methods of fire. Types of ammunition used; accessories.)	Do.

[a] 7–70	Browning Machine Gun, Cal. .50, HB (Flexible) M2, Ground. Part II.—Mechanical Training—Continued. (Detailed disassembling and assembling of barrel, backplate, driving spring and rod, bolt, barrel extension, oil buffer body groups. Headspace adjustment illustrated.)	Do.
[a] 7–71	Browning Machine Gun, Cal. .50, HB (Flexible) M2, Ground. Part III.—Care and Cleaning, Spare Parts, Accessories, and Ammunition. (Points to be observed before, during, and after firing; special precautions essential to safety and satisfactory operation. Types of ammunition; markings and containers.)	Do.
[a] 7–72	37-mm Antitank Gun M3. Part II.—Disassembling, Assembling. (Disassembling and assembling necessary for normal care, cleaning, adjustment, and repair.)	Do.
7–73	37-mm Gun, Antitank M3. Part IV.—Care and Cleaning. Duties of the squad: preventive maintenance; care before, during, and after fire; protection against chemicals; decontamination after gas attack.)	Do.
* 7–74	Browning Automatic Rifle, Cal. .30, M1918A2, With Bipod. Part I.—Mechanical Training, Description, Disassembly and Assembly. (Mechanical training, disassembly and assembly of all models of Browning automatic rifle.)	Do.
[a] * 7–75	Visual Aids to Training. (Problems which can be solved and simplified by blackboards, charts, models, sand table, motion pictures, film strips, opaque projection.)	Do.
* 7–76	37-mm Gun, Antitank M3. Part III.—Mechanical Functioning. (Opening breech; extraction; cocking; closing breech; firing gun, and action of recoil mechanism; safety features of firing mechanism.)	Do.
* 7–77	U. S. Carbine, Cal. .30, M1. Part I.—Characteristics and Description. Weight, length, accurate firing range, gas operated magazine, methods of carrying, correct firing position.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	[a] *7–78	Identification of Foreign Mechanized Vehicles. Part I.—Identification of German Armored Cars and Tanks (TM 30–450). *Restricted.* (Illustrates by means of photographs and diagrams identifying characteristic visible features of German armored cars and tanks. Emphasis on such features as general shape and size, suspension systems, special equipment.)	No notes.
	*7–79	Air Landed Troops and C–47 Airplanes. (Marking and packing equipment in C–47 airplane; storage of rifles, parachutes; use of parachutes; change from paratroop regalia to combat equipment on landing.)	Do.
	*7–80	37-mm Antitank Gun in C–47 Airplanes. (Loading gun, using 2-ramp treadways.)	Do.
	*7–81	75-mm Pack Howitzer in C–47 Airplanes. (Complete loading procedure.)	Do.
	*7–82	1-ton Trailer in C–47 Airplanes. (Loading trailer, less bows and top; process cannot be accomplished in earlier models.)	Do.
	*7–83	¼-ton Truck in C–47 Airplanes. (Routine minor changes before loading; loading process cannot be accomplished in earlier models.)	Do.
	*7–84	Preparatory Marksmanship Training (U. S. Rifle, Cal. 30, M1). Part III.—Trigger Squeeze Exercises. (Rules for practice and execution of trigger squeeze exercises from all positions; instructions for coach.)	----------
	[a] *7–85	Preparatory Marksmanship Training. (U. S. Rifle, Cal. .30 M1). Part V.—Effect of Wind; Sight Changes; Use of Score Book.	Do.

*7–86	Browning Machine Gun, Cal. .30, M1917. Part IX.—Training for Placing the Gun in Action (FM23–55). (Putting gun into action for antiaircraft fire; moving gun; manipulation of gun; putting out base and aiming stakes; measuring vertical angles and quadrant elevation.)	Do.
*7–87	Browning Machine Gun, Cal. .30, M1917. Part IX.—Training for Placing the Gun in Action, Battery Drill (FM23–55). (Battery drill; designating battery position; securing equipment for going into battery; putting gun into battery; emplacing; laying on initial aiming point; laying for elevation; battery exercises.)	Do.
*7–88	Antitank Grenades. Part I.—Description, Types, Characteristics, and Mechanical Training (FM 23–30). (Various types; accessories; essential mechanical training.)	Do.
[a] 8–1	First Aid and Sanitation—Disposal of Waste. (Field sanitary devices noted in FM 21–10 for care and disposal of human excreta, garbage, liquid wastes from kitchen, baths, wash tubs, laundries.)	Do.
[a] 8–2	Communicable Disease Control—Control of Respiratory Diseases. (Standards of floor and air space, bed spacing, cubiculization and ventilation (ROTC).)	Do.
[a] 8–3	Water Supply and Purification. (Procurement responsibility, requirements, sources, methods of field purification, storage and distribution (ROTC).)	Do.
[a] 8–4	Food Control. (Control of intestinal diseases; field messes, ice boxes, washing of mess kits, fly development, traps and bait.)	Do.
[a] 8–5	Control of Insect-borne Diseases. (Sanitary devices for fly, mosquito, louse, and flea control, including rat proofing.)	Do.
8–6	Venereal Disease Control. (Venereal diseases, their lesions and some of their complications, control and prophylaxis.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	[a] 8–7	First Aid. (General; first-aid precautions, steps in treatment and varieties of hemorrhage. First-aid treatment of fractures, snake bites, drowning; 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; military and sanitary factors in selecting a camp site.)	Do.
	8–9	Water Supply and Purification. (Procurement responsibility, requirements, sources, methods of field purification, storage and distribution. More comprehensive and advanced than FS 8–3.)	Do.
	8–10	Food Control. (Same scope as FS 8–4)	Do.
	8–11	Disposal of Wastes in Camps and Bivouacs. (Same scope as FS 8–1.)	Do.
	8–12	Control of Insect-borne Diseases. (Same scope as FS 8–5)	Do.
	8–13	Sanitary Inspection, Reports, Orders and Surveys; Statistical Methods. (Types, basic, military and environmental features of sanitary survey; types of reports; statistical methods including charts.)	Do.
	[a] 8–14	Organization of the Field Army. (Emphasizing nature and extent of medical service.)	Notes.
	8–15	Army Leg Splint, Half Ring, Hinged. (General principles governing care of fractures and extensive soft tissue injuries of lower limb; demonstration of use of this splint in indicated cases.)	Do.

* 8–16	Ambulance Loading and Unloading. (Animal- and motor-drawn ambulances.)	Do.
	Medical Service, Infantry Division:	
8–17	Unit Medical Service (Medical Detachments). (Organization, installations by, tactical operations of medical detachments of infantry division.)	Do.
8–18	Section I.—Division Surgeon's Office. (Organization, command and staff functions of division surgeon's office of infantry division.) Section II.—Medical Regiment. (Functions and functional divisions of medical regiment; tactical dispositions.)	Do.
8–19	Headquarters and Service Company, Medical Regiment. (Functions, functional divisions, location of functional activities.)	Do.
8–20	1st Battalion (Collecting), Medical Regiment. (Organization of collecting battalions, collecting companies; tactical operation.)	Do.
8–21	2d Battalion (Ambulance), Medical Regiment. (Organization of ambulance battalions, ambulance companies; tactical operations.)	Do.
8–22	3d Battalion (Clearing), Medical Regiment. (Organization of clearing battalions, clearing companies; tactical operations.)	Do.
8–23	Medical Battalion. (Organization, combat functions, functions other than combat, establishment of installations of medical battalion to serve infantry division, motorized division, corps troops.)	No notes.
* 8–24	Shelter Tent Pitching. (Each step in erection of single shelter tent and double shelter tent.)	Do.
8–25	First Aid for Gunshot Wounds of the Face and Jaws. Control of hemorrhage, clearance and maintenance of air passage, stabilization of parts; bandages, wiring, prevention of shock, evacuation.)	Notes.
8–26	Roller Bandages—Barton, Modified Barton, and Parker Bandages. (Detailed methods of application.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	8–27	Roller Bandages—Circular, Modified Gibson, Knotted, and Recurrent Bandage of Head. (Detailed methods of application.)	Notes.
	8–28	Roller Bandages—Four-tailed, First-Aid Packet, Figure-of-Eight, Crossed (One Eye), Crossed (Both Eyes). (Detailed methods of application.)	Do.
	8–29	Emergency Bandaging of Face and Jaw Injuries. (Utilization of compress, bandages, wound dressings; 14 types of bandages applied in emergency bandaging of face and jaw injuries; first-aid packet; medical pouch and contents, normal and capacity.)	Do.
	8–30	Triangular Bandages—Face and Jaw Wounds. (Preparation and application of triangular and cravat bandages; fronto-occipital triangle (head cap), cravat of head or ear, chin-cheeks-scalp cravat, triangular compressed bandage.)	Do.
	8–31	Roller Bandage—Face and Jaw Wounds. (Preparation, application, and removal of roller bandage; principles of application of figure-of-eight, spiral reverse, and spica bandages.)	Do.
	8–32	Extra-Oral Traction Appliances—Wooden Tongue Depressor Traction Appliance and Metal Coat Hanger Traction Appliance. (Methods of preparation and application.)	Do.
	8–33	Clearing of Air Passage—Face and Jaw Wounds. (Methods, procedures in clearance and maintenance of air passages.)	Do.
	8–34	Intra- and Extra-Oral Splints. (Designing, fabricating, vulcanizing, casting, curing, preparing of various types of oral splints; adjustment and application of vulcanite, silver, and acrylic resin splints.)	Do.

8–35	Control of Hemorrhage—Face and Jaw Wounds. Digital pressure, compress, pack, bandage, ligations. Stabilization and fixation of part, prevention of shock, litter and ambulance evacuation.)	Do.
8–36	Care and Treatment of Face and Jaw Wounds. (First aid and therapy for various types of wounds of soft tissues and bony structures; control of hemorrhage, clearance and maintenance of air passages, application of traction. Treatment of shock and infections, use of antitoxins, toxoids, débridement, surgical measures.)	Do.
8–37	Immobilization of Fractures. (Application of wiring and elastic traction for fixation, including single and multiple loop, wire for traction—use of elastics.)	Do.
▪ 8–38	General Structure of the Horse and Mule. (Elementary anatomy, bones, muscles, nerves, other systems; certain principles of physiology.)	No notes.
8–39	Heavy Tent Pitching—Hospital Tentage, Ward Tent. (Each step in formal method of erecting hospital tentage, ward tents.)	Notes.
8–40	Medical Squadron. (Organization and functions of service of medical squadron and components to cavalry division.)	No notes.
▪ 8–41	Emergency Measures for Wounds and Their Immediate Complications. (Treatment of open wounds, severe contusions, shock, burns; chemotherapy in these traumatic states.)	Notes.
8–42	Preparation and Administration of Intravenous Solutions. (Blood transfusion and infusion of electrolytes; preparing and administering blood substance.)	Do.
▪ *8–43	Methods of Training, Basic Military Training	No notes.
*8–44	Medical Service of the Cavalry Division	Notes.
*8–45	Restraint and Control of Animals. (Methods used by cavalry in controlling animals for training purposes. Description of meaning of restraint in training horses for specific purposes.)	No notes.

Film strips—Continued

Serial No.	Subject	Remarks
FS *8–49	Animal Injuries—Prevention, First Aid, and Emergency Treatment. (Definition; causes; classification; preventive measures; medical treatment of injuries.)	No notes.
* 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 weapons.)	Do.
* 9–3	Small Arms—Machine Guns and Mounts. (Captioned photographs of each standard weapon.)	Do.
* 9–4	Field Artillery. (Captioned photographs of each standard weapon.)	Do.
* 9–5	Railway and Seacoast Artillery. (Captioned photographs of each standard weapon.)	Do.
* 9–6	Aircraft and Antiaircraft Artillery—Guns. (Captioned photographs of each standard weapon; progressive development.)	Do.
* 9–7	Aircraft and Antiaircraft Artillery—Fire Control. (Captioned photographs of each standard instrument; progressive development.)	Do.
* 9–8	Automotive Matériel. (Captioned photographs.)	Do.
9–9	Gun, Automatic, 20-mm, M2.—Disassembly and Assembly of Weapon. (Dissassembling into component parts; variations in reverse process of reassembling. Primarily for instruction of ordnance personnel.)	Do.

9–10	Gun, 75-mm, M1897A4 and Carriage; Gun, 75-mm, M2A3. Part I.—Basic Disassembly and Assembly. (First of 2 strips; graphical representation, primarily for ordnance personnel, of significant details in basic disassembly and assembly of major units.)	No notes.
9–11	Gun, 75-mm, M1897A4 and Carriage; Gun, 75-mm, M2A3. Part II.—Disassembly and Assembly of Units. (Second of 2 strips, primarily for ordnance personnel. Disassembly and assembly of units removed as shown in FS 9–10.)	Notes.
[a] 9–15	Military Explosives. (Captioned photographs of containers and types of powder. Excellent training and basic training.)	Do.
[a] 9–16	Small Arms Ammunition. (Captioned photographs and cross-section drawings of each type of small arms ammunition. Excellent material for basic training.)	Do.
[a] 9–17	Artillery Ammunition. (Unusual captioned photographs illustrating types of artillery ammunition. Excellent material for basic training.)	Do.
[a] 9–18	Bombs and Pyrotechnics. (Captioned photographs of each type of bomb, nose, and tail fuze. Table of bomb assemblies, correct to September 1, 1940. Excellent for basic training.)	Do.
[a] 9–19	Hand Grenades and Trench Mortar Ammunition. (Captioned photographs of each type of ammunition; containers for shipment and storage in the field. Excellent for basic training.)	Do.
[a] 9–20	U. S. Rifle, Cal. .30, M1. Part I.—Disassembly and Assembly—3d and 4th Echelon. (Rifle detail, disassembly and assembly.)	Do.
[a] 9–21	U. S. Rifle, Cal. .30, M1903A1. Part I.—Disassembly and Assembly—3d and 4th Echelon. (M1903A1 rifle in detail, disassembly, assembly, nomenclature, inspection. Historical background of M1903 and M1917 rifles, briefly.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	9–22	U. S. Rifle, Cal. .30, M1903A1. Part II.—Inspection and Repair—3d and 4th Echelon. (Necessary inspection procedure and use of inspection gages.)	Notes.
	9–23	U. S. Rifle, Cal. .30, M1. Part II.—Inspection and Repair—3d and 4th Echelon. (Necessary inspection procedure and use of inspection gages.)	Do.
	9–24	Browning Machine Gun, Cal. .50, M2. Part I.—Disassembly and Assembly—3d and 4th Echelon. (Title self-explanatory.)	Do.
	9–26	Howitzer, 105-mm, M2A1 and Carriage; Howitzer, 105-mm, M2. Part I.—Basic Disassembly and Assembly. (First of 2 dealing with 105-mm howitzer. Limited in scope, intended primarily for ordnance personnel. Removal of subassemblies and variations in reverse process of reassembling.)	Do.
	9–27	Howitzer, 105-mm, M2A1 and Carriage; Howitzer, 105-mm, M2. Part II.—Nomenclature, Disassembly and Assembly of Units, Inspection. (Second of 2. Intended primarily for ordnance personnel. Nomenclature of major parts of weapon; disassembly and assembly of units; inspection procedures.)	No notes.
	9–28	Gun, Automatic, 37-mm, M4. Part I.—Disassembly and Assembly of Weapon. (Title self-explanatory. Intended for use by ordnance personnel only.)	Notes.

9–29	Gun, Automatic, 37-mm, M4. Part II.—Disassembly and Assembly of Weapon. (Second half, dependent on FS 9–28, cannot be used alone except when class instruction is concerned with disassembly of a certain part of the weapon, such as recuperator mechanism. Intended for use by ordnance personnel only.)	Do.
9–30	Unexploded Bombs. Part I.—Objects Which May Be Dropped From the Air. (Demonstration on following objects and their condition as found after air raid: German, Italian and Japanese H. E. bombs; German incendiary bombs; parachute mines; parachute flares; ariplane cannon shells.)	Do.
9–31	Unexploded Bombs. Part II.—Reconnaissance of Air Raid Incidents. (Distinguishing characteristics of high and low altitude bombing in respect to spontaneous and delayed explosions; charts and effects of unexploded bombs on ground, roads, buildings.)	Do.
9–32	Unexploded Bombs. Part III.—Evacuation and Traffic Restrictions, Protection Against Exploded Bombs. (Detailed instructions respecting buried and unburied bombs, parachute mines, antiaircraft shells, camouflets; protection against U. X. B.)	Do.
	Dual General Motors Diesel Engine Series	
*9–33	Disassembly of the Twin Engine into Single Engines	No notes.
*9–34	Removal of the Subassemblies from the Cylinder Block	Do.
*9–35	Disassembly and Assembly of the Cylinder Block	Do.
*9–36	Disassembly and Assembly of the Cylinder Head	Do.
*9–37	Disassembly and Assembly of the Blower Head	Do.
*9–38	Disassembly and Assembly of the Pump Assemblies	Do.
*9–39	Disassembly and Assembly of the Governor Assembly, Camshaft, Balance Shaft, and Air Heater.	Do.
*9–40	Disassembly and Assembly of the Engine Transfer Gear Housing, Clutch Housing, and Fan Assemblies.	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	*9–41	Disassembly and Assembly of the Injector	No notes.
	*9–42	Disassembly and Assembly of the Generator and Starting Motor Assembly.	Do.
	*9–43	Blower System—Theory of Operation	Do.
	*9–44	Blower System—Assembly and Timing	Do.
	*9–45	U. S. Rifle, Cal. .30 M1917, Enfield	Notes.
	10–20	Quartermaster Battalion, Bakery. (Organization, personnel, equipment, and supply of quartermaster battalion (bakery) and quartermaster company (bakery) at war strength.)	No notes.
	10–29	Graves Registration Units. (Duties and organization of quartermaster company, graves registration service, by means of photographs taken during World War.)	Do.
	*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.)	Do.
	*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.)	Do.
	*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.)	Do.

*10–36	Automotive Brakes. (Terminology; braking system; mechanism and construction; mechanical, hydraulic, air, vacuum, and electrical systems.)	Do.
*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.)	Do.
*10–40	Hand, Measuring, and Power Tools. (Specific purpose, use, and care of common tools of motor vehicle mechanic.)	Do.
*10–41	The Blacksmith and the Welder. (Purpose and correct use of tools and equipment of blacksmith and welder.)	Do.
*10–42	Internal Combustion Engine. (Terminology and definition of terms; principles of operation; types of engines; parts and their coordinated functions. engine lubrication and cooling.)	Do.
*10–43	The Motor Vehicle. (Automotive nomenclature and terminology, common words, terms and phrases; classification, procurement, designation, registration, and description of military motor vehicles; payloads, weights and types; classification of motor vehicle units and assemblies and their functions.)	Do.
*10–44	Fuels and Carburetion. (Carburetor nomenclature, engine fuels, fuel systems, physics and principles of carburetion; types of carburetors, intake and exhaust systems, superchargers, governors.)	Do.
*10–45	Ford V–8 Reconnaissance Car. Part 1.—Maintenance and Lubrication. (Commercial film strip adapted for use as War Department film strip. Title self-explanatory.)	Do.
*10–46	Ford V–8 Reconnaissance Car. Part 2.—Engine Tune-up. (Commercial film strip adapted for use as War Department film strip. Title self-explanatory.)	Do.
*10–47	Ford V–8 Passenger Car. Part 1.—Maintenance and Lubrication Services. (Commercial film strip adapted for use as War Department film strip. Title self-explanatory.)	Do.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	*10–48	Ford V–8 Passenger Car. Part 2.—Engine Tune-up. (Commercial film strip adapted for use as War Department film strip. Title self-explanatory.)	No notes.
	*10–49	The Machinist. (Photographs for use of instructor in explanation of drill press, screw-cutting engine lathe, milling machine, shaper, grinders, and grinding and power hacksaws.)	Do.
	*10–50	28–Series Zenith Carburetor. (Commercial film strip adapted for use as War Department film strip. Title self-explanatory.)	Notes.
	*10–51	23–Series Zenith Carburetor. (Commercial film strip adapted for use as War Department film strip. Title self-explanatory.)	Do.
	*10–52	Construction and Operation of Zenith 450–Series. (Commercial film strip adapted for use as War Department film strip. Title self-explanatory.)	Do.
	10–53	First Echelon of Maintenance. (Duties, functions, and limitations of first echelon; personnel, tools, equipment.)	No notes.
	*10–54	Second Echelon of Maintenance. (Duties, functions, and limitations of second echelon; personnel, tools, equipment.)	Do.
	*10–57	Carter Carburetor. (Commercial film strip adapted for use as War Department film strip. Title self-explanatory.)	Do.
	*10–58	Inspection of Motor Vehicles. (Outline of motor vehicle inspections; purpose, technique, and types of inspection.)	Do.
	*10–59	Sheet-metal Work—Body, Fender, and Radiator Repairs. (Illustrations to be used as instructors' charts in conducting lectures.)	Do.
	*10–61	The Storage Battery. (Battery construction, operation, maintenance, care, and charging methods.)	Do.

[a] 10–62	Motorcycle Inspection—Command, Maintenance, Technical. (Importance of systematic motorcycle inspections and methods of making them, based on TM 10–515. Routines of daily, weekly, monthly, and semiannual inspections.)	Do.
[a] 10–63	Engine Tune-up. Part I. (General tune-up methods, spark plugs, ignition, ignition timing, etc. Adjustments necessary.)	Do.
[a] 10–64	Engine Tune-up. Part II. (See FS 10–63 above.)	Do.
[a] 10–65	Engine Tune-up. Part III. (See FS 10–63 above.)	Do.
[a] 10–66	Electrical Tune-up. (Principal functions of electrical units. Tune-up procedure and minor adjustments. Maintenance and operation of electrical system.)	Do.
10–67	Construction and Application of Ball Bearings. (Theory, construction, and function of the several types of ball bearings.)	Do.
[a] 10–68	GMC 2½-ton, 6 x 6 Truck—Operating the Vehicle. (General functions and applications of various units.)	Do.
[a] 10–69	GMC 2½-ton, 6 x 6 Truck—Operation, Steering, Brake System. (General functions and applications of various units.)	Do.
[a] 10–70	GMC 2½-ton, 6 x 6 Truck—Power Lines, Alex. (General functions and applications of various units.)	Do.
[a] 10–71	GMC 2½-ton, 6 x 6 Truck—Fuel Systems, Cooling System. (General functions and applications of various units.)	Do.
[a] 10–72	Scheduled Lubrication and Minor Adjustments of the U. S. Army Dodge, 4 x 4 Truck. (Systematic and scheduled greasing and lubrication of ½-ton Dodge 4 x 4 truck performed by 1st and 2d echelons; minor adjustments.)	Do.
10–73	Ford 6-cylinder Engine Disassembly. (Removing, dismantling, overhauling, and reassembly.)	Do.
10–74	Ford 6-cylinder Engine Reassembly. (See 10–73 above.)	Do.
[a] 10–75	Factors of Wheel Alinement. (Principles and factors of wheel alinement; causes which may give rise to front-end troubles.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS 10–76	Replacing Glass on the Ford V–8 Passenger Car. (Removal and installation of windshield, door, quarterpanel, rear glass.)	No notes.
[a] 10–79	Principles of the Vacuum Power Brakes. (Theory and advancement principles; hook-up and adjustment.)	Do.
10–80	Servicing of Vacuum Power Brakes. (Repair of brake units; brake adjustment bleeding, flushing, brake relining, main and wheel cylinder overhaul.)	Do.
10–82	Principles of the Down-draft Carburetor. (Principles of operation and construction.)	Do.
10–83	Overhauling the Chevrolet Carburetor. (Principles of operation and construction.)	Do.
[a] 10–84	Motorcycle Lubrication—Indian. (Systematic and periodic lubrication of Indian motorcycle in 1st and 2d echelons.)	Do.
10–86	Chevrolet Truck Steering Gear. (Removal, disassembly in sections, replacement, and adjustment.)	Do.
[a] 10–87	Principles of Front End and Wheel Alinement. (Theory of front end and wheel alinement; correction of front-end troubles.)	Do.
10–88	Chevrolet Hydraulic Brake. (Operation and function of hydraulic system, brake pedal, brake shoes.)	Do.
10–89	Servicing the Chevrolet Hydraulic Brake. (Repair of brake units, bleeding, brake reline, and cylinder overhaul, on Chevrolet trucks and passenger cars.)	Do.
10–90	Motorcycle Lubrication. (500-mile and 1,000-mile procedures for lubricating Harley-Davidson W. L. A. 1941 model solo motorcycle.)	Do.

10–91	How to Use a Micrometer. (Use in determining dimensions. Sleeve graduations and thimble readings; with problems.)	----------
10–92	The Rule. (Fractional and decimal systems; with three problems.)	Do.
10–93	Piston Ring and Related Parts. (Title self-explanatory.)	Do.
*11–3	Film Strip Preparation	Do.
12–1	Special Training in Reading, Writing, and Arithmetic. (Correlated with Sections I and II of the Soldier's Reader; Army words, sentences, numbers.)	Do.
* 17–1	Blocking and Securing Motor Vehicles for Shipment by Railroad. (Blocking and securing various types of vehicles and guns. Number, size of standardized blocks, securing materials required for types of vehicles from solo motorcycles to medium tanks. Applicable to all arms and services.)	Do.
17–2	Thompson Submachine Gun, Cal. .45, M1928A1—Mechanical Training. (Characteristics, nomenclature, assembling and disassembling, functioning, care and cleaning, stoppages and immediate action, spare parts and accessories, safety precautions, ammunition.)	Do.
17–3	Light Tank M2A4—Description and Characteristics. (Characteristics, nomenclature, certain details of construction and functioning of light tanks M2A4 and M3, equipped with either gasoline or Diesel engine.)	Do.
17–4	Medium Tank M2A1—Description and Characteristics. (Characteristics, nomenclature, certain details of construction and functioning.)	Do.
17–5	Signals—Arm and Hand, Flag and Light. (Title self-explanatory.)	Do.

Film strips—Continued

Serial No.	Subject	Remarks
FS 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. (Inspections before operation, at halt, after operation. Inspection duties of tank commander, supervision of all crew members; duties of driver, tank gunner, radio operator.)	Do.
17–8	Medium Tank M3—Description and Characteristics. (Capabilities, common nomenclature, dimensions, armor and armament, ammunition and equipment, crew, engine, power train, suspension, tracks.)	Do.
[a]17–9	The Half-Track—Description and Characteristics. (Types of bodies on half-track chassis; dimensions, armament, equipment, capabilities of half-track. Engine, power train, driving system, suspension, track. Uses of half-track as prime mover.)	Do.
17–10	Tank Maintenance—The Tracks, Light Tank M3, and Medium Tank M3. (Track construction, adjustment, inspection. Maintenance operations, breaking and reversing tracks, changing bogie wheels and volute springs. Results of loose or tight tracks, careless driving, lack of preventive maintenance.)	Do.

17–11	Tank Maintenance—The 25-hour Inspection, Light Tank M3. (Preparation of tank for inspection; inspection before, during, and after engine operation; inspection, tightening, adjustment, and lubrication of engine, engine accessories, fuel and oil systems, power train, suspension system, tank hull.)	Do.
17–12	Tank Maintenance—The 100-hour and 300-hour Inspection, Light Tank M3. (Inspection and adjustment of engine after removal from tank; inspections and operations, special lubrication requirements on both gasoline- and Diesel-engine tanks.)	Do.
17–13	Tank Maintenance—The 25-hour Inspection, Medium Tank M3. (Preparation of tank for inspection; inspection before, during, and after operation; inspection, tightening, adjustment, lubrication of engine; engine accessories, fuel and oil systems, power train, suspension systems, tank hull.)	Do.
17–14	Tank Maintenance—The 100-hour and 300-hour Inspections, Medium Tank M3, Gasoline Engine. (Inspections and adjustments of engine after removal from tank; inspections and operations on tank, including special lubrication requirements.)	Do.
17–15	Browning Machine Gun, Cal. .50, HB, M2—Mechanical Training, Part I. (Complete description, assembly, dissembly.)	Notes.
*17–16	Browning Machine Gun, Cal. .50, HB, M2—Mechanical Training, Part II (Functioning, care and cleaning, stoppages, ammunition, sights, gun mounts, safety precautions.)	Do.
a*17–17	Truck, ¼-ton, 4 x 4—Description and Characteristics. (Body, dimensions, armament, equipment, capabilities; engine, power train, driving system, suspension; use of truck as prime mover.)	Do.
*17–18	37-mm Gun, Tank, M6. (Gun as a whole; disassembly and assembly in general and detail; photographs of hands in relation to parts.)	No notes.

Film strips—Continued

	Serial No.	Subject	Remarks
FS	*17–19	37-mm Gun, Tank, M6. Part II.—Functioning, Care, and Cleaning. (Mechanical functioning; care and cleaning; safety precautions in handling gun.)	
	*17–20	Truck, ¼-ton, First Echelon—Driver Maintenance. (Duties of driver in performing inspections before taking truck out, at the halt, after operations, after 1,000 miles, and road check as tests.	

■ 16. FILM BULLETINS.—*a.* Film bulletins are designed to inform military personnel of current activities and developments in the war effort. It is desired that training officers employ these bulletins as an orientation medium and aids to instruction whenever possible. Bulletins are classified as *restricted* or higher.

b. Film bulletins are distributed to service command central film libraries and post sub-libraries on the same basis as training films.

c. Film bulletins are available in both 16-mm and 35-mm sizes.

Film bulletins—Continued

FB No.	Number of reels	Running time (minutes)	Subject
1	1	------	*a.* 90-mm Antiaircraft Gun. (Firing tests.) Coast Artillery Corps. Fort Monroe, Va.
			b. 16-inch Howitzer. (Firing tests) Coast Artillery Corps. Fort Story, Va.
2	1	8	*a.* New Type Trench Digger. (Demonstration of experimental matériel.) Corps of Engineers. Fort Belvoir, Va.
			b. Experimental Type Flame Thrower. (Also demonstration against enemy pill box.) Corps of Engineers. Fort Belvoir, Va.
			c. Rubber Boats. (Methods of possible employment, demonstration of experimental models in construction of ferry for medium tank, and for ponton bridge purposes.) Corps of Engineers. Fort Knox, Ky.
3	1	11	*a.* Experimental Carriers for 37-mm Gun.— (1) ¼-ton vehicle, ordnance mount. (2) ¼-ton vehicle, Jones mount. (3) Modified Christie tank-type carrier. Ordnance Dept. Aberdeen Proving Ground, Md.
			b. 75-mm New Gun Half-track Carrier. (Firing tests.) Ordnance Dept. Aberdeen Proving Ground, Md.
			c. Experimental Incendiary Bomb. (Tests.) Ordnance Dept. Aberdeen Proving Ground, Md.
			d. Road Craters. (Demonstration of tests for blowing road craters; effectiveness against tanks.) Corps of Engineers. Fort Belvoir, Va.

Film bulletins—Continued

FB No.	Number of reels	Running time (minutes)	Subject
4	1	10	*a.* Wire Thrower, RL–37–T2. (Tests.) (Demonstrating wire throwing, wire laying, recovery.) Coast Artillery Corps. Fort Monroe, Va. *b.* Camouflage Net. (Demonstration of standard flat-top camouflage net.) Corps of Engineers. Fort Belvoir, Va. *c.* Tilt-type (semitrailer). (Demonstration of experimental trailer for transportation of medium tractor.) Corps of Engineers. Fort Belvoir, Va.
5	1	9	*a.* Provisional Infantry Antitank Battalion in Attack. (Demonstration simulating action against enemy tanks. Equipment of battalion includes ¼-ton reconnaissance car with radio receiving-set installation, ¼-ton vehicles equipped with 37-mm gun on ordnance mount, half-track vehicles mounting 75-mm guns.) Infantry. Fort Meade, Md. *b.* Aerial Bombs. (Demonstration of 2 testing methods to determine relative strength of bombing cases.) (1) Firing 500-pound bombs, adapted to 10-inch gun, against 3-inch steel wall. (2) Dropped 250-pound and 1,000-pound bombs from low-flying airplane against 8-inch steel wall. Ordnance Dept. Aberdeen Proving Ground, Md.
6	1	11	*a.* Canadian Medium Tank M3. (Tests on automotive test course.) Ordnance Dept. Aberdeen Proving Ground, Md.

			b. U. S. Army Medium Tank M3. (Tests on automotive test course.) Ordnance Dept. Aberdeen Proving Ground, Md.
7	1	2	Barrage Balloons. (Demonstration of inflation, ascent, and descent of 2 types of barrage balloons being tested by the board.) Coast Artillery Corps. Camp Davis, N. C.
8	1	10	*a.* Self-propelled Gun Carrier for 37-mm Gun. (Firing tests on new type of carrier equipped with oversized tires and motor located at the rear.) Ordnance Dept. Aberdeen Proving Ground, Md.
			b. Self-propelled Gun Carrier for 37-mm Gun. (Demonstration of same gun carrier negotiating broken and swampy terrain.) Infantry. Fort Meade, Md.
			c. 25-ton Ponton Bridge. (Tests to determine whether it will carry U. S. Army medium tank, weighing slightly less than 30 tons.) Engineer Board. Fort Belvoir, Va.
			d. Bofors 40-mm Antiaircraft Gun and Carriage. (Testing equipment on automotive test course.) Ordnance Dept. Aberdeen Proving Ground, Md.
			e. Bofors 40-mm Antiaircraft Gun. (Firing tests.) Coast Artillery Corps. Fort Monroe, Va.
9	1	17	First Division Landing Operations, North Carolina.
10	1	8	90-mm Antiaircraft Gun Battery. (Firing tests of gun battery operated by remote control. Natural sound of firing along with narration.) Coast Artillery Corps. Fort Monroe, Va.
11	1	9	*a.* Mobile 37-mm Gun Mount T21 (Fargo). (Tests on automotive course.) Ordnance Dept. Aberdeen Proving Ground, Md.
			b. Medium Tractor T9. (Testing tractor as prime mover for 90-mm antiaircraft gun.) Ordnance Dept. Aberdeen Proving Ground, Md.

Film bulletins—Continued

FB No.	Number of reels	Running time (minutes)	Subject
12	1	11	*a.* Half-tracks T2 and T3. (Both vehicles tested as prime movers for 105-mm howitzer and as personnel carriers. M2 shown with 105-mm howitzer mounted.) Ordnance Board. Aberdeen Proving Ground, Md. *b.* Concrete Mixer. (Demonstration of concrete mixer for repair of roads in battle zones.) Engineer Board. Fort Belvoir, Va.
13	1	10	*a.* Gas Masks. (Making of masks for Army by civilian plant.) *b.* T16 Half-track and T32 Motor Carriage. (Tests.) Ordnance Dept. Aberdeen Proving Ground, Md. *c.* Hasty Tank Obstacles. (Demonstration.) Engineer Board. Fort Belvoir, Va.
14	1	7	*a.* Daimler Four-wheel Drive English Scout Car. (Tests.) Ordnance Dept. Aberdeen Proving Ground, Md. *b.* 75-mm Tank Gun M2. (Tests.) Ordnance Dept. Aberdeen Proving Ground, Md.
15	2	19	Army Maneuvers. (In North and South Carolina during autumn of 1941.)
16	1	------	Invasion of Crete by the German Army. (*Confidential*, restrictions required by this classification should be rigidly adhered to. Contains narration and natural sound; film made during actual invasion.)
17	2	------	1941 Invasion of Russia by the German Army. (*Confidential*, restrictions required by this classification should be rigidly adhered to. Shows results of avation attack vehicles on roads where they were good targets for airplanes.)

18	1	8	*a.* Multiple Gun, Power-operated Turret. (Tests.) Ordnance Dept. Aberdeen Proving Ground, Md. *b. 155-mm Gun.* (Demonstration of gun mounted on motor carriage with new hydraulically operated trail.) Ordnance Dept. Aberdeen Proving Ground, Md. *c.* Caliber .30. (Tests on new type gun.) Ordnance Dept. Aberdeen Proving Ground, Md.
19	1	10	Miscellaneous subjects. *a.* Motorcycle. (Demonstration of new cycle equipped with driveshaft instead of chain drive.) *b.* Armored Vehicles. (Tests on decontamination procedures conducted at Edgewood Arsenal.) *c. "Aqua Cheeta" (Sea Jeep).* (Tests on new kind of vehicle that moves through water or runs on land.)
20	1	10	Parachute Regiment. (A day with the 503d Parachute Regiment at Fort Bragg, N. C.)
21	1	11	Tank Obstacles. (Demonstration on construction and tests of tank obstacles to learn which are most effective. Different types of obstacles, and tanks trying to go through them.)
22	1	11	Amphibious Force. (A day with the 9th Division at Fort Bragg, N. C., showing division in training as amphibious force. Landing operations from mock-up ships; river crossings in rubber boats.)
23	1	6	Bond Rallies. (War bond parades in Washington, Chicago, New York; speech of Mr. Nevelle Ford of Treasury Department at Fort Wadsworth, N. Y.; speech of Mr. Donald Nelson at Chicago stadium.) Recommended for use by bond officers at military installations.
24	2	21	Parachutists on skiis. (6 weeks' training at Alta, Utah. Fundamentals, explanation of skiis, climbing techniques, ski stance, turns, chair lift, tactical exercises, jumps.)

Film bulletins—Continued

FB No.	Number of reels	Running time (minutes)	Subject
25	1	10	Labor Greets General Somervell. (General Somervell's visit to Michigan's labor and management rally; his trip through industrial plants in central Michigan working on war orders; his speech at banquet given in his honor at Bell Isle, Detroit.)
26	1	9	*a.* Amphibian Cargo Tractor. (Tests.) Ordnance Dept. Aberdeen Proving Ground, Md. *b.* Mobile Laundry Unit. (Demonstration of unit built by Quartermaster Corps, capacity 7,500 men weekly; water supply, size groups, washing machines, drying.) Quartermaster Corps. Camp Lee, Va.
27	1	9	*a.* Women Working on Men's Jobs. (Examples of women working in war industries, setting up and firing guns, trial elevation shooting, determining range errors, recording ballistic data.) Ordnance Dept. Aberdeen Proving Ground, Md. *b.* Mobile Field Baking Unit. (Demonstration of mobile unit, exemplifying ingredients, mixing, oven baking, distribution.) Quartermaster Corps. Camp Lee, Va.
28	1	11	Decontamination of Combat Vehicles. (Tests of armored forces at Edgewood Arsenal, Md., experimenting with procedure for decontamination from mustard gas of men, clothing, ration, and vehicles: scout cars, personnel carriers, light tanks, medium tanks, self-propelled carriers. Use of decontamination chemicals and binders for making material resistant to persistent gas.) Chemical Warfare Service. Edgewood Arsenal, Md.

29	1	9	(Not for general distribution.)
30	1	10	Mobile Machine Records Unit. How Machine Records Branch, The Adjutant General's Office, through Army status card, records activities of every man in the Army. Six machines of 3-trailer mobile unit—key punch, collator, sorter, reproducer, interpreter, tabulator—travel with every corps, keeping up to date Reports of Change submitted by personnel office.)
31	1	11	Battlefield Sounds. (Identification and location of weapons of infantry division by sound of fire of rifles, light and heavy machine guns, antitank gun, field gun, mortars, howitzers, from three points; discharge, under fire, and at receiving end.)
32	1	9	*a.* Soldier Stevedores. (Training methods on Quartermaster Corps SS Dixie equipment; technique of loading and unloading ship cargoes; explanation of nautical terms.) Quartermaster Corps. Fort Dix, N. J. *b.* Pigeons. (Demonstration of usefulness of pigeon in the Army; pigeon barracks, portable loft for carrying pigeons into combat areas; value in reconnaissance activities when radio cannot be used; method of attaching messages to birds; flight of pigeons with messages.) Signal Corps. Fort Monmouth, N. J. *c.* Parachutists. (Training for physical fitness; learning balance; ground landing practice; massed jumping.) Air Ground Support, Army Air Forces } Fort Benning, Ga. *d.* Latin American Officers Visit Edgewood Arsenal. (Inspection tour of chemical plants for demonstration and explanation of protection equipment and uses in chemical warfare of flame thrower, magnesium bomb, phosphorous hand grenade, airplane barrages.) Chemical Warfare Service. Edgewood Arsenal, Md.
34	1	11	Our Troops in New Caledonia. (American troops parading through town of Nouimea, island's capital, along with Free French troops. Portrays and emphasizes peep squadron's efficiency, durability, and strength in surveying island's terrain and setting up battle position for defensive measures.)

Film bulletins—Continued

FB No.	Number of reels	Running time (minutes)	Subject
35	1	11	*a.* Loading of Cargo Airplanes. (Demonstration of practices carried out by airborne infantry in loading jeeps, motorcycles, light artillery, 1½-ton trucks into mock airplanes and cargo airplanes for transportation to battle areas and training areas.) Airborne Command. Fort Bragg, N. C.
37	1	9	Highway to Alaska. (Efficient sources of supply and mobile maintenance units shown making this gigantic task of road building possible. U. S. Army engineers and Corps of Engineers grading, digging, leveling, clearing tract of land, overcoming hundreds of obstacles as they near completion of highway.) Corps of Engineers.
38	1	8	Army Tank Destroyers. (Efficient operation of tank destroyer schools in teaching new methods of operation and maintenance of half-track vehicles. Results of thorough training in changing track under fire and vulnerability of tanks on mock maneuvers.) Tank Destroyer Center. Camp Hood, Tex.
39	1	11	Scrap for Victory. (Aberdeen Proving Ground, Maryland, proving valuable in meeting large demand for scrap metal. Old weapons, field equipment, tanks, coastal defense guns, old shells, railroad mortars, foreign field pieces from last war being salvaged and turned in for scrap.) Ordnance Dept. Aberdeen Proving Ground, Md.
40	1	11	*a.* Alaska Pipe Lines. (Supplies, barges, boats, and equipment transported over 16 miles of portage roads to new point where river is again navigable.)

			b. Emergency River Crossings. (Huge canvas being utilized as emergency measure in floating jeeps, 37-mm gun ammunition carrier, and 1½-ton trucks across stream. Another emergency measure of ferrying demonstrated is cable used as sky bridge.) Infantry Division. Fort Bragg, N. C.
42	1	14	*a.* Convoy Snapshots—Somewhere in the Pacific. (Life aboard convoy ships depicts heartiness of American expeditionary forces on way to battle. How men pass time by participating in recreation and religious services. Importance of convoy shipping supplies and men, keeping open life line of the west.) *b.* Training Under Fire. (Methods used by tank destroyer units in dealing instant death to enemy troops exemplified by tactics of infiltration, hunting snipers, advancing through open country obstacles under fire of live ammunition.) Tank Destroyer Center. Camp Hood, Texas.
43	1	6	Australian Campaign in New Guinea. (Pictorial record of jungle warfare against Japs in New Guinea. Impressive, realistic account of obstacles and limitations to be overcome in warfare of this type.)
44	1	12	Close Combat Firing. (Methods supplementing range instruction for close combat firing under conditions when visibility is poor. Use of natural instincts of men under these conditions. Pistol, tommy gun, and rifle used as weapons of offense in pointing out these procedures.)
45	1	10	U. S. Attacks in the Aleutians. (Landing of supplies and heavy equipment in setting up beach heads and encampments in Aleutian Islands. Construction of airport; first American bomber raid on Kiska.)
46	1	10	4.2 Chemical Mortar for 1942. (Testing for most efficient transportation of mortar and ammunition; arrangement of crew and packing; increasing ammunition load and decreasing personnel needed through use of ¼-ton truck and trailer.) Chemical Warfare Service. Edgewood Arsenal.
48	1	9	Invasion of Poland in 1939 by the German Army.

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