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AUTHORITY

C to U: 31 May 1979 DoDD 5200.10 gp-4. E/4 to A/1, 29 Apr 1980 per OAG  
D/A ltr.

# **SECURITY**

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18) OACSFOR

19) OT-RD-670482

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Lessons Learned, DEPARTMENT OF THE ARMY  
HEADQUARTERS, 1ST BATTALION, 63D ARMOR [U].  
Fort Riley, Kansas 66442

1  
D May 1967

AD389979

SUBJECT: 9 Operational Report - Lessons Learned RCS CSFOR

no. 2 for period ending 30 Apr 67

REGISTERED  
MAY 22 1968

TO: Assistant Chief of Staff for Force Development  
Department of the Army  
Washington, D. C. 20310

11 5 May 67

12 42 p.

Downgraded at 3 year intervals  
Declassified after 12 years  
DOD DIR 5200.10

1. (U) REFERENCES:

- a. AR 1-19.
- b. DA Message 805034 from ACSFOR dated 10 May 1966.

2. (U) REPORT PERIOD: This is the second report and covers the period 1 April to 30 April 1967.

3. (C) SIGNIFICANT ORGANIZATION OR UNIT ACTIVITIES:

- a. By Fifth Army General Order 141 dated 17 April 1967 the unit was removed from D status and placed on C1 (2.2).
- b. Transition training and preparations for overseas movement continued during the period.
- c. The annual General Inspection was held from 10 April to 12 April. The unit received an overall rating of Superior.
- d. Five (5) M551 General Sheridans were received on 2 April.
- e. A chronological listing of all significant activities can be found in ANNEX A.

4. (C) PERSONNEL:

- a. (X) The strength of the unit in terms of deployable enlisted personnel is found in ANNEX B. A shortage of middle grade NCO's continues to exist.
- b. (X) The deployability of enlisted personnel due to estimated termination of service does not become critical until 1 April 1968 (ANNEX C).

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c (S) The request for modification of the TO&E to include a personnel section was returned by Fifth Army without action 24 April 1967.

d (U) COMARC Message 56403 dated 24 April 1967 requests DA Authority to cancel selected outstanding personnel requisitions for this unit.

5. (U) TRAINING:

a. All special M551 transition courses have been completed:

SCHOOL	OFFICERS	EM
ATAC New Vehicle School	1	2
Track Vehicle Mechanics (Ft Knox)	0	27
Turret Mechanics (Ft Knox)	1	8
Leaders Course (Ft Knox)	20	22
Crewmembers Course (Ft Knox)	0	141
	<u>22</u>	<u>200</u>

b. Organizational turret and track vehicle mechanics courses have been initiated locally for personnel who arrived after completion of special courses.

6. (U) INTELLIGENCE AND SECURITY:

The Battalion security plan for the M551 is in ANNEX D.

7. (C) LOGISTICS:

a. Supply:

(1) The delivery dates of the M551's has slipped. The current schedule is:

- 5 arrived on 24 April
- 12 expected on 4 May
- 6 expected on 5 May
- 11 expected on or about 15 May
- Remainder - Unknown

(2) Turn in of M78A3 tanks is as follows:

- 6 shipped to Anniston on 24 January
- 8 shipped to SEA on 15 April
- 6 shipped to Anniston on 28 April
- Remainder to be shipped to Anniston upon arrival of M551's.

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DOD DIR 5200.10

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(3) A request for issue of one Trainer, Sheridan Weapons System, XM-40 (turret trainer) was forwarded to HQ USCONARC on 27 April 1967.

b. Maintenance: The unit has received PLL listing for the M551 from the Supply and Maintenance Division, Project Manager - Sheridan Weapons System. The listing appears adequate initially.

8. COMMANDERS OBSERVATIONS AND RECOMMENDATIONS:

a. (C) Personnel:

(1) Recommend that a "T" qualifier be added to the MOS of each fully trained M551 Crewman MOS 11E and Turret Mechanics MOS 45G20. Reference - OPO Manual, (Department of the Army Personnel Management Development Office). SUBJECT: New Equipment Personnel Requirements Summary dated January 1967.

(2) Recommend that selected M551 school trained personnel currently assigned to G Co, 15th Armor, Fort Hood, be reassigned to this unit.

(3) Recommend reconsideration be given to the request to provide this unit with a nine (9) man personnel section.

(4) Recommend that members of this unit be exempt from levy action until the training base is equipped to provide trained M551 replacements in Tank Crewmen, Turret Mechanics, Track Mechanics and Maintenance Officer MOS's.

b. (C) Training:

(1) Recommend that this unit be directed to conduct a troop test.

(2) Recommend that this unit be authorized to fire the Shillelagh Missile.

(3) Recommend that any future unit to be equipped with the M551 give full consideration to a personnel swimming program. Particular emphasis should be given to the training of mechanics for deep water recovery operations. The Battalion Scout Platoon and all Recovery Sections should have qualified personnel for scuba type operations. Future units of this type should be equipped with a resuscitator in each Medical Evacuation Team.

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c. (U) Organization:

(1) A proposed modified TO&E is included as ANNEX E. This TO&E modification is based on two factors.

(a) The modification necessitated because of the special characteristics of the M551 particularly its amphibious characteristics.

(b) The modification suggested for South East Asia employment.

(2) Recommend immediate action be taken to increase the number of authorized Turret Mechanics MOS 45G from eight (8) to twelve (12). It is considered that the major maintenance problems with the M551 will be in the turret. It should be noted that at the present time there is conflicting guidance. TO&E 17-35G authorizes eight (8) Turret Mechanics 45G20 and AR 310-32 (para 8C0 provides for three (3) per tank company and three for the battalion maintenance platoon.

(3) The substitution of the M578 for the M88 recovery vehicle is the best interim solution. At the present time there is no recovery vehicle in the inventory with mobility characteristics equal to the M551. Thus it is doubtful that any current recovery vehicle will be able to gain access to areas where recovery of the M551 would be required. The immediate solution appears to be the use of another M551 for recovery operations. Thus it is recommended that each M551 deployed to SEA be equipped with a tow pintle and tow bar. (See Para (2) (d) (3) below).

d. (C) Logistics:

1. Supply:

(a) Combat Vehicle Crew Helmets were ordered as follows:

234 Regular  
102 Large

Upon receipt of regular CVC helmets it was determined that the medium was too light for head size 6-7/8. Less than five (5) percent of the personnel can comfortably wear size medium. Recommend that TA50-901 reflect comfortable hat sizes, a float, and a table of percentages of sizes that should be ordered.

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(b) Training ammunition availability continues to be a critical problem. The only period available at Fort Riley until late August will end on 31 May 1967. No firm ETA on required 152mm main gun ammunition (XM11E3TF-T) is known.

(c) Availability of the gunner periscope, XM44 is critical. The following actions have been taken to obtain known assets in COMUS:

a. Requested from Project Manager, all sixteen (16) in stock.

b. Requested thru G-2, Fort Riley to COMARC that seventeen (17) XM44 at USATCA (now in storage vehicle) and five (5) XM44 in Automotive Department Instructional Vehicles, USAARMS, Fort Knox, be transferred with mounts on a temporary basis.

c. Current status:

Five (5) on hand  
Three (3) (original shipment for G Co, 15th Armor, Fort Hood) due on 5 May in vehicles.

(2) Maintenance:

(a) Recommend that an annotation of the page number and part nomenclature be included on the PLL listing, thus eliminating the need for additional man hours in preparation.

(b) Three (3) engine oil drain plugs were broken in initial removal due to excessive torque at time of assembly. The Allison field representative notified the factory and it is expected that this condition will be corrected.

(c) Slip-ring and contact points on the Commander's Cupola arrived improperly adjusted.

(d) The following equipment improvement reports are being submitted.

(1) Installation of a tow pintle on rear of M551 to accept a tow bar.

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(2) Installation of a return spring for the loaders hatch lock pin to prevent breaking pin when hatch is closed.

(3) Modification of battery hold down clamp to prevent batteries from breaking loose when only two (2) are mounted in the compartment.

(4) Installation of a solid base for the bustle net.

*W. Russell Todd*

5 Annexs		W. RUSSELL TODD
Annex A	Significant Events	LTC, Armor
Annex B	Deployable Personnel (C)	Commanding
Annex C	ETS Schedule	
Annex D	Security of Tank M551	
Annex E	Modified Table of Organization and Equipment	

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ALRGT-0 (5 May 67) 1st Ind (c)  
SUBJECT: Operational Report - Lessons Learned RCS CSFOR-65 (U)

DA, HEADQUARTERS FORT RILEY, Fort Riley, Kansas 66442 16 MAY 1967

TO: Commanding General, Fifth U.S. Army, ATTN: ALFGC-TN, 1660 East  
Hyde Park Boulevard, Chicago, Illinois 60615

(C) In compliance with AR 1-19, the following comments are submitted on the basic communication.

a. (C) Personnel.

(1) Addition of a "T" Qualifier to the MOS of Each Fully Trained M551 Crewman, MOS 11E, and Turret Mechanics, MOS 45G20 (Paragraph 8a(1), basic communication). Recommend immediate action be taken to add the "T" qualifier to MOS indicated. Due to the newness of the equipment, there are few school trained personnel on the M551. Identification of these personnel is essential for effective utilization in the program.

(2) Authorization of a Nine (9) Man Personnel Section (Paragraph 8a(3), basic communication). Recommend request for authorization be reconsidered. This section is particularly desirable if the unit eventually deploys to Southeast Asia and must operate as a separate unit.

(3) Action to Make Certain M551 Qualified Personnel Levy Exempt (Paragraph 8a(4), basic communication). The school trained M551 personnel currently assigned to the battalion are considered critical to the development of an effective training base. At a minimum personnel should be levy exempt until sufficient additional personnel have been trained in the battalion to provide operational continuity.

b. (C) Training.

(1) Troop Test (Paragraph 8b(1), basic communication). The 1/63 Armor has begun to receive the M551 and is in an excellent position to conduct a troop test on the M551. Further, it is considered essential that the General Sheridan receive a thorough, impartial evaluation by a using unit prior to any mass issue of the new system. Recommend this task be assigned the 1/63 Armor.

(2) Firing of the Shillelagh Missile (Paragraph 8b(2), basic communication). By using improvised range facilities, the Shillelagh Missile can be fired at Fort Riley. Providing ammunition

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ALRGT-0 (5 May 67)

SUBJECT: Operational Report - Lessons Learned RCS CSFOR - 65 (U)

can be made available, recommend the unit be authorized to fire the missile.

(3) Personnel Swimming Program (Paragraph 8b(3), basic communication). Concur with the unit commander's evaluation. The M551 is designed to be waterborne. As such, it is essential that the capabilities outlined by the unit commander be incorporated into any future unit with a similar configuration.

c. (U) Organization.

(1) Proposed MTOE (Paragraph 8c(1) and Annex E, basic communication). Recommend every consideration be given to adopting the proposed MTOE, basic communication. This proposal has taken into consideration the following:

(a) The special characteristics of the M551.

(b) The probable future employment of the battalion in Southeast Asia.

(2) Increase of Authorized Turret Mechanics, MOS 45G (Paragraph 8c(2), basic communication). Concur with the comments of the battalion commander. Additional mechanics are essential to prevent increased deadline rate.

(3) Substitution of M78 for M88 Recovery Vehicle (Paragraph 8c(3), basic communication). Recommend substitution of the M78 for M88 recovery vehicle as a recovery vehicle until a more effective vehicle can be developed. Further recommend equipping deploying M551 vehicles with a tow bar and pintle.

d. (C) Logistics.

(1) Combat Vehicle Crew Helmets (Paragraph d(1)(a), basic communication). Nonconcur in TA reflecting desired information. TA is designed to designate allowances. Unit is required to research applicable publication describing item to requisition correct size or type; computable sizes should be included as a guide in the applicable supply publication. A "float" of combat vehicular crewman's helmets should not be designated in applicable TA. Unit commander may request an increase in allowances under the provisions of AR 310-22, however, these type items would normally be stocked at installation level as "Float" instead of at organization level. The table of percentages of sizes that should be ordered should

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AIRGT-0 (5 May 67)

SUBJECT: Operational Report - Lessons Learned RCS CSFOR - 65 (U)

not be used for this type of item. This helmet is a high dollar (\$91) item and should be ordered by the unit, in required sizes. The feasibility of publishing computable hat sizes will be discussed with AMC.

(2) Training Ammunition. (Paragraph d(1)(b), basic communication). Training ammunition should begin arriving at Fort Riley on 12 May.

(3) XM44 Availability (Paragraph d(1)(c), basic communication). This headquarters has no later information on the availability of the XM44.

(4) Annotation of Page Numbers and Parts Nomenclature. (Paragraph d(2)(a), basic communication). The G4 will investigate the feasibility of annotating page numbers and nouns of future support lists. Support lists currently in the unit's possession were not prepared by this headquarters.

FOR THE COMMANDER:

*Marion L. Hughes*

MARION L. HUGHES  
1LT, AGC  
ASST AG

5. Incl  
nc

Copy Furnished:

CO, 1/63 Armor, Ft Riley, Kansas

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AIR MAIL

ALFGC-TN (5 May 67) 2d Ind (C)  
SUBJECT: Operational Report - Lessons Learned, RCD CSFOR-65 (U)

HEADQUARTERS FIFTH UNITED STATES ARMY, Fort Sheridan, Illinois 60037

TO: Commanding General, United States Continental Army Command, Fort  
Monroe, Virginia 23351

8 JUN 1967

(C) This headquarters concurs in the comments and recommendations provided by the unit commander and the installation commander with the following exceptions and additions:

a. Personnel.

(1) Paragraph 8a(1). The OPO manual referenced by the unit is not available in this headquarters. Since the intent is to identify personnel trained on the M551 and since these personnel seem to be in short supply the recommendation to provide an identifier should be given favorable consideration.

(2) Non-concur with paragraph 8a(2) of the basic letter. The recommendation in sub-paragraph (4) below to stabilize the 11E and 45G (cadre column TOE) is deemed sufficient.

(3) Non-concur with paragraph 8a(3) of the basic letter. It is not considered necessary that the nine man personnel section be authorized until it is clearly established that the battalion will be operating as a separate battalion. While the unit is attached to a larger unit or a USAG, the personnel administrative support supplied by these organizations is deemed adequate.

(4) Paragraph 8a(4), basic letter. It is recommended that MOS 11E and 45G in only the cadre column of the TOE be stabilized. Requests for stabilization of these MOS and positions should be on an individual basis, i.e., Fort Riley determines what number of cadre spaces 11E and 45G the installation can fill with M551 trained personnel and then requests a definite time for stabilization of EM by name.

b. Operations. No additional comments.

c. Training and Organization. Reference paragraph 8c(1), basic letter, paragraph c(1), 1st Indorsement, Annex E, basic letter. Concur with comments regarding the substitution of tracked vehicles for wheeled vehicles and additional personnel to maintain them. These substitutions will affect the mobility of the battalion in any theater or situation. Non-concur with recommendations for a MTOE to tailor the battalion specifically for combat in SEA at this time. The unit is not presently programmed for SEA and it is felt that flexibility will be sacrificed by implementation of a MTOE.

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ALFGC-TN (5 May 67)

2d Ind (C)

23 JUN 1967

SUBJECT: Operational Report - Lessons Learned, RCS CSFOR-65 (U)

d. Intelligence.

(1) Reference paragraph 3a(7): Annex D. It is recommended that the third sentence which reads "verified by the company commander or his representative" be changed to read "verified by the company commander or his officially designated representative."

(2) Reference paragraph 3b(3), Annex D: The phrase that reads "security clearance" be changed to read "security and access clearance."

(3) Reference paragraph 3b(5), Annex D: While recognition is given to the attempt in not drawing unnecessary attention to the tank and area, the more predominate phase of security, interpreted here, is to preclude unauthorized personnel from entry and to specifically point out that the area in question is an exclusion area. This headquarters, therefore, does not agree with the proposed action of not posting signs, but recommends instead that signs be posted in accordance with the warning sample indicated in AR 380-20.

e. Logistics.

(1) Reference paragraph 8d(2)(d)(1) basic letter: A reply has been received from the commodity command on equipment improvement report (EIR) pertaining to installing a tow pintle on rear on M551 to accept a tow bar. EIR has been presented to the vehicle engineers for evaluation.

(2) Reference paragraph 8d(2)(c) basic letter: This headquarters will determine what action has been taken between the Fort Riley command, the Commodity Command Field Maintenance Technicians (FMT) and the manufacturers to insure proper adjustment of slip ring and contact points on the commanders cupola of future vehicle issues.

(3) Reference paragraph 8d(1)(c) basic letter and paragraph d(3), 1st Indorsement. Information obtained from USAHECOM on 29 May 1967, indicated that eight M551's were shipped with the XM44 gunner periscope. An additional sixteen M551's are scheduled for shipment on or about 31 May 1967. Ten will be equipped with the gunner periscope and six will be shipped without the XM44 installed at Fort Riley

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ALNGC-TN(5 May 67)

2d Ind (C)

JUN 1967

SUBJECT: Operational Report - Lessons Learned, RCS CSFOR-65 (U)

by depot personnel; the remaining shortage of XM44 (35) is scheduled for delivery on or about 1 December 1967. This headquarters has requested that USCONARC provide for a loan of 22 each XM44 gunner periscopes from Fort Knox. A reply to this request is still awaited.

(4) Reference paragraph d(1), 1st Indorsement. Concur with comment as pertains to combat vehicle crew helmets.

FOR THE COMMANDER:

*C. D. Waite*

C. D. WAITE  
2LT, AGC  
Asst Adjutant General

5 Incl  
nc

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ATOPS-MGT(5 May 67 3d Ind (C)  
SUBJECT: Operational Report - Lessons Learned, RCS CSFOR-65 (U)

Headquarters, United States Continental Army Command, Fort Monroe,  
Virginia 23351 4 AUG 1967

TO: Assistant Chief of Staff for Force Development, Department of the  
Army, Washington, D.C. 20310

(FOUO) The observations and recommendations of the Commander, 1st  
Battalion, 63d Armor as indorsed by intermediate headquarters are concurred  
in subject to the following comments:

a. (U) Personnel:

(1) Identification of Fully Trained M551 Crewmen. It is  
understood that a proposal is presently under study in Department of the  
Army which would establish an equipment/weapons identification system.  
The system, referred to as Additional Skill Identifier (ASI) will identify  
additional training received which is not presently identified by the  
awarded MOS. Pending approval and implementation, the 1st Bn, 63d Armor  
is being informed to consider one of the following methods to identify M551  
trained personnel:

(a) Submit to Chief, OPO, DA, ATTN: OPOPMO, a specific  
request to use identifier T, in accordance with the procedures in AR 600-20.

(b) Annotate item 28 of the individual DA Form 20.

(2) Levy of M551 Qualified Personnel. It is noted that a  
large levy has already been made on the 1st Bn, 63d Armor. If such actions  
continue the effectiveness of the unit will be questionable since replace-  
ments will not be M551 trained until an M551 AIT program is initiated,  
probably late in CY 67.

b. (U) Training. Authorization to Fire the Shillelagh Missile.  
Shillelagh missiles are authorized and available to support training of the  
1/63d Armor at Fort Riley.

c. (U) Organization:

(1) Concur with comment of CG, Fifth US Army. The reporting  
unit is being informed that requests for action, such as approval of MTOE,  
will be processed as separate actions in accordance with appropriate  
regulations governing submission of such requests.

(2) Recommend action to replace M88 Medium Recovery Vehicles  
with M578 Light Recovery Vehicles. The shortage of M88 for units requiring  
the capability is critical.

FOUO

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B/KC, 1st Bn, 63d Armor

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ATOPS-MGT(5 May 67)

3d Ind (C)

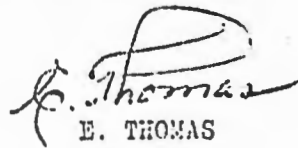
SUBJECT: Operational Report - Lessons Learned, RCS CSFOR-65 (U)

d. (FOUO) Logistics:

(1) Training Ammunition (616 rounds 152mm TP-T). This ammunition scheduled to arrive at Fort Riley on 12 May was received and expended.

(2) Availability of Gunner Periscope XM44. In addition to the 16 XM44 periscopes to be provided by USAMC Project Manager, Fort Knox has been directed to ship 4 periscopes. Additional XM 44 cannot be provided by Fort Knox without an adverse impact on the training base.

FOR THE COMMANDER:



E. THOMAS  
LTC, AGC  
Asst., AG

5 Incl  
n/c

*FOUO*

*13/20, 1st 401 2nd + 3rd*

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HEADQUARTERS  
1ST BATTALION 63D ARMOR  
Fort Riley, Kansas 66442

5 May 1967

## SIGNIFICANT EVENTS 1-30 APRIL 1967

2 April 1967: Mr. Thompson and Mr. Stramm, Maintenance Division, AMC, and Mr. Smith, Supply Division, AMC, arrived for discussion of problem areas in support of M551 project.

10 April 1967: Mr. Bennett, Allison Division, General Motors, arrived in support of M551 project.

11 April 1967: Mr. Weslok, Allison Division, General Motors, arrived for indefinite period to assist in training and maintenance with the M551. He replaced Mr. Bennett.

15 April 1967: Forty-five (45) enlisted men returned from special three (3) week Sheridan Crewmans Course at Fort Knox.

17-19 April 1967: Mr. Lawrence, Mr. Collins and Mr. Bennett, Allison Division, General Motors, visited and discussed problem areas and provided orientation to Post and Battalion personnel. Film on Operation Mudlark was shown.

18 April 1967: Battalion placed on C status by Authority GO 141 HQ Fifth USA.

18-28 April 1967: Battalion supported Fifth Army Pistol Matches with five (5) Officers and forty-seven (47) Enlisted Men.

20 April 1967: Mr. Cave, Mr. Griggs and Mr. Wallace, MICOM Representative, arrived for indefinite period in support of M551 project.

24 April 1967: Arrival of five (5) General Sheridan's.

24 April 1967: Mr. Bronson and Mr. Vanderwarden, Project Managers Office, visited for coordination with the Battalion Commander and Staff. Problems discussed included, E.I.R.'s, conventional ammunition needs of this unit for tank gunnery, short falls of XM44 periscopes and possible solutions, projected delivery dates of the M551, and firing data on conventional ammunition.

ANNEX A.

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100-100-100  
3100-100-100  
100-100-100

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DEPARTMENT OF THE ARMY  
HEADQUARTERS, 1ST BATTALION 63D ARMOR  
Fort Riley, Kansas. 66442

DEPLOYABLE PERSONNEL

GRADE	AUTHORIZED	ASSIGNED	
		31 MARCH 1967	30 APRIL 1967
E-9	1	1	1
E-8	7	5	4
E-7	17	13	15
E-6	62	26	31
E-5	173	21	30
E-4	155	34	51
E-3	143	187	248
E-2	4	192	135
E-1	0	4	3
TOTALS	562	483	518

ANNEX B.

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ANNEX D: 11340

HEADQUARTERS  
1ST BATTALION 63D ARMOR  
Fort Riley, Kansas 66442

REGULATION  
NUMBER 380-5

31 March 1967

SECURITY OF TANK M551

1. GENERAL:

a. This Annex provides instructions and procedures for adequate protection and security of the Sheridan/Shillalagh Tank M551. It also contains guidance for the operation and control of designated restricted areas.

b. Suggestions and/or recommended changes to this Annex should be forwarded to this Headquarters, ATTN: S2

2. RESPONSIBILITIES:

a. Upon receipt of the Tank, M551 within the Battalion, the S4 will notify the company(s) and sign the vehicles to them. Upon signing for the vehicles the recipient will assume the responsibility for their security.

b. It is the commander's responsibility at each echelon to insure that the vehicles are properly safeguarded. Periodic security inspections will be conducted by units to include checks during and after duty hours in consonance with the security procedures outlined in this regulation and other existing security directives.

c. Commanders will also insure that the personnel of his unit are thoroughly indoctrinated in proper security procedures.

d. The Battalion S2 will make unannounced security inspections and forward the results to the Battalion Commander informing him of the inspected unit's security status.

3. PROCEDURES:

a. Administrative:

(1) Several components of the Sheridan/Shillalagh Tank M551 are currently classified CONFIDENTIAL, and will be safeguarded in accordance with para 50a(3) AR 380-5. The components which are currently classified CONFIDENTIAL are the Tracker, Signal Data Converter, Modulator, Transmitter and Starlight Scope for the .50 Cal Machine Gun. The following procedures will be strictly adhered to in order to properly safeguard the above equipment.

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ANNEX D

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(2) Each vehicle will become a security container and will be locked with an approved three (3) digit dial-type combination pad lock (Sergeant, Greenleaf). Locks will be issued directly to the companies by S-4.

(3) Upon receipt of equipment and locks the following forms will be completed and maintained as prescribed below.

(a) Log Books for the M551 Tank will be conspicuously marked on the front, back and binding: "THIS VEHICLE CONTAINS CLASSIFIED COMPONENTS".

(b) DA Form 672 (Safe or Cabinet Security Record): This form will become an integral part of the Log Book and will be maintained in accordance with para 53, AR 380-5.

(c) DA Form 727 (Classified Container Information): Copy-1 maintained in the log book; Copies 2 and 3 maintained by Bn S2.

(d) See Appendix 1 for proper method of completing forms.

(4) Locks: Upon receipt of the Greenleaf locks the individual Tank Commander will change the combination as per instructions attached to the lock. He will complete DA Form 727 as follows:

(a) Copy-1 --filled out and maintained in the Log Book

(b) Copy-2 --attach to outside of brown envelope

(c) Copy-3 --place inside of brown envelope along with instructions for changing the combination and change key, then seal the envelope.

(d) Copies 2 and 3 will be delivered to the S2 office for filing. The Gunner and Platoon Leader should be listed on DA Form 727 as Alternates.

(e) Only the Tank Commander and Gunner concerned will know the combination to a lock for a particular vehicle. Combinations prescribed in para 3a(4) (d) above.

(5) When ever an individual, having access to a combination, is relieved of responsibility (clearing Post, change of duty assignment, ect.) the combination will be changed and a new DA Form 727 initiated.

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(6) Only the Tank Commander for a specific vehicle, Platoon Leader, or Company Commander will be able to obtain the combination to a lock from S2 in cases of Emergency. Under extreme conditions on the spot determination will be made.

(7) Unit Commanders will maintain a current access roster of personnel authorized to enter the vehicle and/or view the classified components. This roster should reflect the individual's name, position and degree of clearance. Personnel whose names do not appear on this roster will not be allowed to handle these components until such times as their clearance and need to know have been verified by the Company Commander or his representative. A copy of this roster will also be maintained in Company Maintenance Shop.

b. Physical Security:

(1) Commander's and Driver's Hatches of the vehicle will be firmly secured from the inside and the loaders hatch will be secured from the outside with the Greenleaf lock. The exterior openings of the transmitter and XII 44 periscope must be securely fastened from the inside and checked prior to locking the loader's hatch.

(2) Starlight Scopes will be stored inside the vehicle in such a manner as to preclude damage to the equipment. When the Scope is mounted in its proper location or outside of vehicle for any other purpose it will be covered, unless actually being used.

(3) When ever a vehicle is opened it will not be left unattended. An individual possessing the proper security clearance will remain with it at all times until it is locked.

(4) During non-duty hours a normal motor pool guard is sufficient security for the vehicles within the Motor Park providing all vehicles are secured in accordance with subparagraph b(1) above. Guards will be instructed to periodically check the tanks to insure that the vehicles are secure and have not been tampered with.

(5) Restricted Areas will not be posted with signs to preclude drawing unnecessary and additional attention to them as prescribed in AR 380-20. During duty hours, proper indoctrination, alertness, and ability of personnel working in the motor pool, to detect unauthorized persons in the area and following the procedures prescribed in this Annex is sufficient security.

(6) Classified Spare Parts and classified components which are removed for repair will be safeguarded in accordance with para 50a(3), AR 380-5.

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(7) Shops that store classified repair parts need not be secured with a Greenleaf Lock. However such material will be kept in a security container within the building. Vehicles left inside of shops will comply with para 3b(1) above.

(8) An adequate system for control of keys to shop areas will be established in each unit storing classified repair parts and/or components. A key control officer or NCO shall be appointed to control issue, and maintain adequate records of all keys used to lock the building. Keys shall be made available only to those individuals whose official duties so require.

(9) Loss of any key will compromise the lock involved which will require immediate replacement of the compromised lock. Personnel possessing keys will be instructed in their proper safeguarding and the necessity for immediate reporting of loss or compromise thereof.

(10) Accountability of classified components will be governed by the provisions of paragraph 21c, AR 380-5 and existing regulations governing the control of sensitive items.

(11) Security of Training Areas: During training or Field Exercises, Units are still responsible for security of the vehicles. Vehicles will not be left unattended. The procedures prescribed in para 3b(1) and b(3) will apply. When personnel is called into a group for instructions a guard will remain with the vehicles.

(12) Class Rooms and Training Areas: When classes are given indoors or out, pertaining to classified components, guards will be stationed outside of the class room or around the training area to keep unauthorized persons a satisfactory distance away from the area so that the instructions can not be seen or overheard.

#### 4. SUPPORTING UNITS:

a. When vehicles are sent to Supporting Units (Field Maintenance) for repair or other required services, their security is the responsibility of the Director/Commander of that unit.

b. The Battalion Maintenance Officer will insure that contact teams from supporting elements have proper clearances prior to allowing them access to classified components. He will request this information from the Supporting Unit and where possible maintain a roster of these personnel.

c. Before contact teams go to the companies, they will first check in with the Battalion Maintenance Officer. The Maintenance Officer will in turn notify the company concerned of the presence and security clearance of individuals on the team.

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d. The Bn Maint Officer will also maintain a roster of those individuals of the supporting unit authorized to receipt for vehicles.

5. SHIPMENT OF THE M551 TANK: When M551's or similar type vehicles and equipment containing CONFIDENTIAL components are shipped from this installation within CONUS and without guards, a bradded bolt and an officially affixed seal on the loaders hatch will be required to meet the requirements of para 12c(1), AR 380-55.

6. COMPROMISES: Evidence of compromise of possible compromise of the sheridan/shillclagh weapons system, Tank M551, will be reported to the Battalion S2 Officer, who will take appropriate action in accordance with FR Reg 380-1 para 2a.

FOR THE COMMANDER:

BARRY C. JUNNIER  
1/LT           Armor  
Adjutant

OFFICIAL:

*Barry C. Junnier*  
BARRY C. JUNNIER  
1/LT           Armor  
Adjutant

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HEADQUARTERS  
1ST BATTALION 63D ARMOR  
Fort Riley, Kansas 66442

ALRSU

5 May 1967

SUBJECT: Modification of Tables of Organization and Equipment:  
TOE 17-36G and TOE 17-37G

TO: See Distribution

1. Attached are modifications to TOE 17-37G (Tank Company) and TOE 17-36G (Headquarters and Headquarters Company, Tank Battalion) desired by this battalion.

2. These modifications are based on two considerations:

a. The battalion will be equipped with the light weight M551 General Sheridan rather than the M60 or M48 series tank.

b. The battalion may be deployed to an overseas theater with the M551 during fiscal year 1968.

(C) 3. The introduction of the M551 General Sheridan has changed the character of our battalion to that of an amphibious tank battalion. This additional capability has necessitated altering our support structure so that the logistical echelon of the battalion is able to support the combat echelon in order not to be halted by water barriers. Significant changes requested to resolve this problem have been:

4. a. The addition to the transportation section of the battalion a tracked, amphibious cargo section equipped with M548 cargo carriers.

b. The substituting of an M113 launcher AVLB for the M48 or M60-series AVLB. This item is still under evaluation and development at the Engineer Board in Fort Belvoir, Virginia.

c. The substitution of the light tracked recovery vehicle M578 for the medium VTR M88. This is an interim solution until a recovery vehicle is built on a Sheridan chassis.

d. The substitution of the Tank Company's 3/4 ton Maintenance section truck for an M113 Armored Personnel Carrier.

Annex E

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ALRSU

5 May 1967

SUBJECT: Modification of Tables of Organization and Equipment:  
TOE 17-36G and TOE 17-37G

e. The substitution of an M548 Cargo Carrier for the 2 1/2 ton supply truck and maintenance truck in the tank company.

f. Additional track vehicles and turret mechanics to meet the greater density of tracked vehicles in the battalion.

4. To further tailor the battalion to fight in the terrain of SE Asia additional modifications are needed and are included:

a. The addition of a mechanized infantry squad to each tank company headquarters for local security.

b. The substitution of two PPS-4 radars to replace the AN/TPS-33 radars in the surveillance section.

c. The substitution of an Armored Personnel Carrier for a vehicle ambulance M171 found in the battalion evacuation section.

5. These requested modifications do not reflect the request for a battalion personnel section which was submitted in 1 April 1967. Additional minor changes to MOS's grade structure, individual weapons, radios, and allied equipment is shown in detail in the tables of the TOE modification request.

*W Russell Todd*

W. RUSSELL TODD  
LTC, Armor  
Commanding

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DATE 10/10/2001

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(1) (see 11/11/51)

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TABLE OF ORGANIZATION AND EQUIPMENT

SECTION I - GENERAL - PART A

(AR 310-31)

TOE NUMBER	TITLE	PRESENT STRENGTH	PROPOSED STRENGTH
17-37G	Tank Company, Tank Bn	87	98

DISCUSSION:

1. General: This TOE modification is dictated by two factors:

a. The companies to be organized under this MTOE will be equipped with the M551 General Sheridan Tank rather than the M60 or M48 series tanks.

b. The companies may be deployed to SE Asia.

2. Personnel Changes:

a. Headquarters Section, para 01:

(1) Line 09 - raise grade of Company Clerk from E4 to E5. The duties of a company clerk require skills and experience well above what is expected of a specialist E4.

(2) Line 10 - delete two light truck drivers, E3. The replacement of an M113 for the 1st Sergeant's 1/4 ton truck and a cargo carrier, M548, for the 2 1/2 truck changes the requirement for two light truck drivers to two personnel carrier drivers.

(3) Line 12 - add two personnel carrier drivers, E4. See justification for deletion of two light truck drivers above. The 1st Sergeant's driver will have the additional duty of radio operator.

b. Maintenance Section, para 02: Add one turret mechanic, E5. An additional turret mechanic is authorized by AR 310-32. This individual should be grade E5, ordnance trained, to handle the complexities of the M551 turret. He has a supervisory requirement over the other two turret mechanics.

c. Security Section: See para 3e, TOE 17-37G. As stated above this company is programmed for deployment into a combat area where local security will be of utmost importance. The security squad will consist of the following personnel:

(1) One Section Leader E6, MOS: 11E40.

(2) One personnel Carrier Driver E4, MOS: 11E20  
(Additional duty: radio operator).

(3) Eight Armored Crewman E3, MOS: 11E10.

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3. Equipment Changes:

a. Headquarters Section, para 01:

- (1) LIN B49546 - Add twelve bayonets w/scabbard for personnel assigned to Security Squad, and additional mechanics.
- (2) LIN B67218 - Add one binocular, 7x50 for Security Squad Leader.
- (3) LIN B67629 - Add two binoculars, infra red driving for two additional M113 personnel carriers assigned 1st Sergeant and Security Squad.
- (4) LIN H73666 - Add two flashlights for two additional M113 personnel carriers.
- (5) LIN J71304 - Add four goggles for drivers and vehicle commanders of two additional M113 personnel carriers.
- (6) LIN W55650 - Add two panel markers for the two additional M113 personnel carriers.
- (7) LIN Q54618 - Delete AN/VRC-47 radio. 1/4 ton truck to be replaced by M113 with different radio configuration.
- (8) LIN Q78282 - Add one AN/GRA-39 control group for M113 used by Company 1st Sergeant.
- (9) LIN R95114 - Add 10 rifles, 7.62mm, M14 for Security Squad.
- (10) LIN U29238 - Add one Starlight Scope for Security Squad.
- (11) LIN W95811 - Delete. To be replaced by M548 Cargo Carrier.
- (12) LIN X40146 - Delete. To be replaced by M548 Cargo Carrier.
- (13) LIN X60833 - Change from 2 to 1. 1/4 ton truck for 1st Sergeant to be replaced by M113 Personnel Carrier to provide cross country capability in marginal terrain and armored protection while in field locations. Additional M113 could serve as company command post as needed. Equipped with radio set AN/VRC-43 to enable 1st Sergeant to monitor Company and Battalion Command nets and Battalion Logistical net.

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(14) LIN D12086 - Add two Carriers, Personnel, Full Tracked, M113al for Company 1st Sergeant (See (13) above) and for security squad (see personnel changes).

(15) LIN Q45964 - Add Radio Set AN/VRC-12 to be mounted in truck 1/4 ton for Tank Company Commander. This would enable the Company Commander to monitor both Battalion and Company command nets.

(16) LIN Q55188 - Add Radio Set AN/VRC-49. To be mounted in 1st Sergeant's Carrier, Personnel, M113 to enable 1st Sergeant to monitor command nets of Battalion and Company.

(17) LIN Q53223 - Add Radio Set AN/VRC-46. To be mounted in Carrier, Personnel, M113 of Security Squad.

(18) LIN D11048 - Add one Carrier, Cargo, M548 to replace truck 2 1/2 ton in (11) above. This tracked cargo carrier will enable company supply to accompany the tank companies over water barriers or through marginal terrain. Present truck 2 1/2 ton would be unable to provide this continuous support.

b. Maintenance Section, para 02:

(1) LIN B49546 - Add one bayonet w/scabbard for additional turret mechanic.

(2) LIN N96741 - Add one pistol. 45 Caliber for additional turret mechanic.

(3) LIN R50680 - Delete. M88 VTR is too heavy for terrain in expected area of deployment. Recovery capability of M88 VTR is beyond needs of company equipped with 17 ton M551 General Sheridan.

(4) LIN W32730 - Delete. Common tool set number 2 felt not needed at company level

(5) LIN W57801 - Add one turret mechanic's tool kit for additional turret mechanic authorized.

(6) LIN W95537 - Delete trailer for 3/4 ton truck. Item to be substituted by M113 personnel carrier.

(7) LIN W95811 - Delete. 1 1/2 ton trailer. Item to be replaced by M548 Cargo Carrier.

(8) LIN X39872 - Delete truck 3/4 ton. To be replaced by M113 Personnel Carrier.

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(9) LIN X40146 - Delete truck 2 1/2 ton w/e.  
Item to be replaced by M548 cargo carrier.

(10) LIN R50543 - Add Recovery Vehicle Light, M578.  
This vehicle is much lighter and more compatible with requirements of tank company, equipped with 17 ton M551 General Sheridan.

(11) LIN W32593 - Add tool kit, automotive common #1 to replace present number 2 set now authorized.

(12) LIN D11048 - Add Carrier, Cargo, Full Tracked, M548 to replace truck 2 1/2 ton in (9) above. The addition of tracked vehicle for the wheeled truck 2 1/2 ton will enable company maintenance section to support company in spite of marginal terrain and water barriers.

(13) LIN D12086 - Add one Carrier, Personnel, M113 to replace truck 5/4 ton of maintenance section. The substitution of a tracked vehicle will enable company maintenance to provide continuous support over water barriers and marginal terrain.

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TABLE OF ORGANIZATION AND EQUIPMENT

SECTION I - GENERAL - PART A

(AR310-31)

TOE NUMBER	TITLE	PRESENT STRENGTH	PROPOSED STRENGTH
17-36G	Hq & Hq Co, Tk Bn	323	355

DISCUSSION:

1. General: This TOE modification has been dictated by two factors:

a. This battalion will be issued M551 General Sheridan tanks in lieu of the M60 or M48 series tanks.

b. The battalion may be alerted for deployment to SE Asia.

2. Personnel Changes:

a. Company Headquarters, para 02: add one Tracked Vehicle Mechanic, E4. Addition of six tracked cargo carriers, M548, and two M113 AVLB's (See Section III, Equipment Allowances) requires additional Tracked Vehicle Mechanic as specified in AR 310-22

b. Battalion Headquarters Section, para 03:

(1) Add an Assistant Intelligence Sergeant E5. This would provide 24 hour operational capability for the section. He would have additional duty as a clerk typist.

(2) Line 15 - add two light truck drivers for S-2 and S-4. Presently the S-2 driver is assigned to Battalion Transportation Section which is incompatible to the needs of both sections. The S-4 needs an assigned driver, for the duties of a Battalion Mail Clerk require full time attention.

c. Battalion Communications Platoon, para 06.

(1) Line 01 - Raise grade of Comm Chief to E7. Comm Chief has the responsibilities and size platoon equivalent to a combat arms platoon.

(2) Line 02 - Raise grade of Senior Radio Mechanic from E5 to E6. Felt necessary for individual to fulfil his supervisory role over the other battalion Radio Mechanics.

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d. 2 Scout Sections, para 08: Line 05 - add 9 scout observers. When M113's are substituted for M114's, an additional observer is needed to man the additional machine gun. Would provide four men per M113.

e. 4 Mortar Squads, para 10: Line 01 - raise grade of squad leader from E5 to E6. Mortar Squad Leader is responsible for a tracked vehicle and a crew of five personnel. This is equivalent to the responsibility of a tank commander, authorized grade E6.

f. Transportation Section, para 12:

(1) Line 02 - raise grade of Truckmaster from E6 to E7. The Battalion transportation section, with the addition of six tracked cargo carriers, M548, has increased in size and complexity. The raise in grade is commensurate with his additional responsibilities.

(2) Line 04 - raise grade of Ammunition Specialist from E4 to E5. The M551 ammunition requires a greater degree of experience in handling and, with the addition of tracked cargo carriers, M548, there are additional personnel to supervise.

(3) Add a Track Section Leader, E5. The addition of six tracked cargo carriers, M548 and 12 personnel to transportation section requires a section leader.

(4) Add two Senior Tracked Vehicle Drivers, E5. Each responsible for a squad of three tracked cargo carriers, M548 and five personnel.

(5) Add six Tracked Vehicle Drivers, E4 to drive the tracked cargo carriers, M548.

(6) Add three Assistant Tracked Vehicle Drivers, E3, to assist in driving, maintaining, and loading the tracked cargo carrier M548 (Capacity 6 tons).

g. Headquarters Company Mess Team, para 14: Line 01 - Raise grade of Battalion mess Steward from E6 to E7. Authorized grade of Battalion mess Steward in "E" series TOE was E7. This is a possible mistake in printing "G" series TOE.

h. Armored Vehicular Launched Bridge Section, para 16:

(1) Line 02 - add two Bridge Section Sergeants E5. Addition of two AVLB's to the section requires additional crews.

(2) Line 03 - add two Armored Vehicle Drivers. Addition of two AVLB's to section requires additional crews.

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i. Battalion Maintenance Platoon, para 17:

(1) Add one Repair Parts Specialist E5. Responsibilities include supervision of five other repair parts specialists in the battalion. Present need is filled by assigning mission as additional duty to other personnel in Maintenance Platoon, resulting in unnecessary work overload.

(2) Add one Turret Mechanic, E5. Needed to supervise the eleven turret mechanics authorized in the battalion by AR 310-32, paragraph 8c (20)(c) (Three in each company, two in Battalion Maintenance Platoon). Issued turret mechanic's tool kit.

(3) Add one Track Vehicle Mechanic E4. Addition of fourteen tracked vehicles to battalion requires two track vehicle mechanics as specified in AR 310-22 (See section III, Equipment allowances.) Second Tracked Vehicle Mechanic to be in Hq & Hq Co Maintenance Section.

3. Equipment Changes:

a. Battalion Headquarters Section, Para 03:

(1) LIN 53112 Change Radio set: AN/VRC-46, from 1 to 2 to be mounted in Carrier, Command Post M577. This additional radio would provide the Battalion S2 the capability of maintaining and transmitting on two radio nets (Battalion and higher command intelligence nets) and to monitor the air observer net found in SE Asia.

(2) LIN 54285 - delete one Radio Set AN/VRC-47 found in Battalion S-3 Carrier, Command Post. This radio to be replaced by Radio Set AN/VRC-49 which provides a two channel monitoring and transmitting capability. See (5) below.

(3) LIN 54618 - delete one Radio Set AN/VRC-47 mounted in truck 1/4 ton. This radio to be replaced by Radio Set AN/VRC-49 providing the Battalion Commander a two channel monitoring and transmitting capability.

(4) LIN 90474 - delete one Radio Teletypewriter set AN/VRC-29 mounted in Carrier Command Post. This radio to be transferred to Battalion Communications Platoon and replaced by Radio Set AN/VRC-49 in (5) below.

(5) LIN 55151 - add one Radio Set AN/VRC-49 to the Battalion S-3 Carrier Command Post M577. See justification in (2) above. This radio set is presently assigned to the Battalion Communications Platoon.

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(6) LIN 455299 - Add one radio set AN/VRC-49 to be mounted in 1/4 ton truck. This radio replaces the AN/VRC-47 now authorized the Battalion Commander. See (3) above.

b. Battalion Ground Surveillance Section, para 04:

(1) LIN J42685 - Change Generator for PPS-4 radar from 4 to 6. See (3) below.

(2) LIN J42822 - Delete AN/TPS-33 and allied equipment to be replaced by AN/PPS-4.

(3) LIN 416099 - Change AN/PPS-4 Radar from 4 to 6. Ranges found in area of probable deployment seldom exceed 1 Km. The AN/TPS-33 scans 91m to 18Km which exceeds all normal requirements. The PPS-4 is more maneuverable and more compatible with the short ranges.

(4) LIN 417469 - Delete, see justification in (2) above.

c. Headquarters Tank Section, para 05:

(1) LIN 45945 - Add one radio set AN/VRC-12 to be mounted in tank 4551, General Sheridan. This radio is to replace the radio set AN/VRC-46 now authorized. A two channel monitoring capability is needed to enable the Forward Air Controller to direct air strikes and monitor both the Battalion Command Net and the command net of the company he is supporting.

(2) LIN 453704 - Delete. To be replaced by Radio Set AN/VRC-12 in (1) above.

d. Battalion Communication Platoon, para 06:

(1) LIN D11538 - Change Carrier, Command Post, from 1 to 2. Additional M577 replaces truck 3/4 ton with trailer. This substitution would provide additional armored security and cross country capability to Battalion Communications Section operating with Battalion CP.

(2) LIN 455151 - Delete one Radio Set AN/VRC-49 mounted in Carrier, Command Post light. This radio to be replaced by radio teletypewriter AN/VRC-29 presently carried by the Battalion S-3.

(3) LIN W95537 - Delete. For justification, see (1) above.

(4) LIN X39872 - Delete. For justification, see (1) above.

(5) LIN U81707 - Add one SB-22 switch board to provide from 12 to 17 additional telephone lines. Needed to handle battalion base camp telephone complex.

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(6) LIN 453112 - Add one radio set AN/VRC-46 mounted in additional Carrier Command Post M577.

e. Battalion Scout Platoon Headquarters, para 07:

(1) LIN D11401 - Delete. Vehicle not deployable to SE Asia.

(2) LIN D12086 - Add one additional Carrier, Personnel Full Tracked M113 to replace nondeployable M114.

(3) LIN Y42371 - Delete. Replaced by Night Vision Sight.

(4) LIN U29238 - Add two Starlight Scopes to replace infra-red equipment in (3) above.

(5) LIN L92386 - Add two M60 Machineguns for Carrier, Personnel M113.

f. 2 Scout Sections, para 08:

(1) LIN A71438 - Delete. Radio capability of expected enemy not sufficient to require use of RDF antenna AT-784/PRC.

(2) LIN D11401 - Delete. To be replaced by deployable Carrier Personnel M113.

(3) LIN U29238 - Change Starlight Scope from 4 to 8. Starlight equipment needed on each vehicle rather than one per squad as now authorized.

(4) LIN Y42371 - Delete. To be replaced by Night Vision Sight Crew Served Weapons on (3) above.

(5) LIN D12086 - Add eight Carrier Personnel, M113 to replace nondeployable M114.

(6) LIN L92386 - Add eight M60 Machineguns to increase fire power to M113 in (5) above.

(7) LIN G32473 - Add 5 each, Diving Equipment Set Scuba.

g. Battalion Heavy Mortar Platoon Headquarters, para 09:

(1) LIN 454618 - Delete. Mortar Platoon Leader to be carried by Carrier, Personnel, M113 w/radio set AN/VRC-12.

(2) LIN W95400 - Delete. See (1) above.

(3) LIN X60833 - reduce truck utility 1/4 ton from 4 to 3. Mortar Platoon Leader should be carried in

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Carrier, Personnel, M113. Wheeled vehicles unable to negotiate much of terrain in SE Asia Mortar Platoon would be required to move in. Platoon forward observers can still be carried in FO tank provided by tank companies.

(4) LIN Y42371 - Delete. To be replaced by Night Vision Sight Crew Served Weapons equipment.

(5) LIN D12086 - Add one Carrier, Personnel, M113 to replace less maneuverable truck, utility, 1/4 ton in (3) above.

(6) LIN <sup>Q45716</sup> Q45779 - Add one Radio Set, AN/VRC-12 to be mounted in Carrier, Personnel, M113 for Mortar Platoon Leader.

h. Transportation Section, para 12:

(1) LIN J71304 - Change goggles from 29 to 41 for the additional Cargo Carriers, M548.

(2) LIN K40831 - Delete two trucks, cargo, 5 ton. To be replaced by Carrier, Cargo, full tracked, M548.

(3) LIN D11048 - Add six Carriers, Cargo, Full Tracked M548. Addition of tracked, amphibious cargo carriers to support platoon inables resupply vehicles to accompany M551 General Sheridan across water barriers. Present wheeled 5 ton truck is unable to provide continuous resupply due to limited cross country capability.

(4) LIN Q54618 - Add one Radio Set, AN/VRC-47 for 1/4 ton truck of Transportation Section Leader. Section Leader must be able to contact both wheeled and track sections of his platoon.

(5) LIN Q53075 - Add two Radio Sets, AN/VRC-46 to be mounted in Carrier, Cargo, Full Tracked M548.

i. Armored Vehicle Launched Bridge Section, Para 16:

(1) LIN B49546 - Add four bayonets with scabbard for crews of two additional AVLB's.

(2) LIN C20414 - Delete. A class 60 bridge is far in excess of needs of battalion issued 17 ton M551 General Sheridan. Aluminum bridge under development would more adequately meet the needs of the battalion.

(3) LIN J71304 - Add four goggles for additional AVLB crewman.

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(4) LIN L43664 - Delete. M60 or M48 series tank launcher too heavy for marginal terrain of expected area of deployment. To be replaced by M113 launcher now under development by engineers.

(5) LIN Q55510 - Add two Radio Sets, AN-VRC-53 for the two additional M113 AVLB's requested.

(6) LIN R95114 - Add four rifles, M14, 7.62mm for the crews of the additional M113 AVLB's.

(7) Add four bridges, M113 launched. This bridge is much lighter and more maneuverable in the marginal terrain of expected area of deployment than the class 60 bridge of the M60/M48 series launcher. The aluminum M113 launched bridge can carry all combat vehicles desired by the battalion.

(8) Add four Marginal Terrain Bridge Launchers, M113. See justification in (7) above.

j. Battalion Maintenance Platoon, para 17:

(1) LIN J71304 - Add two goggles for operators of additional wrecker, 5 ton (LIN X63299).

(2) LIN N96741 Add three pistols Cal 45 for three additional personnel requested (See Personnel Changes).

(3) LIN Q54037 - Delete. To be replaced by AN/VRC-47 mounted in Carrier, Personnel, M113.

(4) LIN R50680 - Delete. M88 Recovery Vehicle too heavy for marginal terrain in area of probable deployment and recovery capability far in excess of needs of battalion. To be replaced by lighter, M578 Recovery Vehicle.

(5) LIN W33004 - Add one tool kit automotive mechanic's, light weight for additional mechanic requested (See Personnel Changes).

(6) LIN W57801 - Add one turret mechanic's tool kit for additional turret mechanic requested (See Personnel Changes).

(7) LIN X39872 - Change truck 3/4 ton from 2 to 1. Does not provide Maintenance Officer sufficient armored protection and cross country capability to enable him to support deployed tank companies in terrain of SE Asia. To be replaced by Carrier, Personnel M113.

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(8) LIN X63299 - Add additional wrecker, 5 ton. Requested recovery vehicle, M578 does not have extendable boom to remove engines from M551 Sheridan Tank. Tactical situation in SE Asia dictates battalion splitting maintenance support between field locations and base camps, neither are mutually supporting. Additional wrecker, 5 ton would enable Maintenance Platoon to split this support effort.

(9) LIN R50543 - Add two recovery Vehicles, light M578. See (4) above.

(10) LIN D12086 - Add Carrier, Personnel, Full Tracked, M113. To replace Maintenance Officer's truck 3/4 ton See (7) above.

(11) LIN Q54322 - Add Radio Set AN/VRC-47. To be mounted in Carrier, personnel, M113 for Maintenance Officer.

k. Battalion Medical Platoon Headquarters, para 18:

(1) LIN Q56231 - Delete Radio Set AN/VRC-53. To be replaced by radio set AN/VRC-46 to provide additional transmitting range.

(2) LIN Q53186 - Add Radio Set, AN/VRC-46. See (1) above for justification.

(3) LIN R88696 - Add five (5) each Resusitator Aspirator.

l. Evacuation Section, para 21:

(1) LIN D12086 - Add one Carrier, Personnel, Full Tracked, M113 ambulance. This would provide a medical evacuation vehicle to each tank company capable of negotiating the marginal terrain found in SE Asia. The additional M113 ambulance would replace one M171 1/4 ton ambulance.

(2) LIN J71304 - Add three goggles for crewman of additional M113 ambulance in (1) above.

(3) LIN Q55621 - Add one Radio Set, AN/VRC-53 to be mounted in M113 ambulance in (1) above.

(4) LIN X38639 - Delete One ambulance, 1/4 ton. See (1) above for justification.

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MODIFICATION TABLE OF ORGANIZATION AND EQUIPMENT

TOE: 17-36G

COMD: 1st Bn, 63d Armor

UIC: WAHOAO-EO-CO

SECTION II - PERSONNEL ALLOWANCES

INDEX	DESCRIPTION	GRADE	MOS	STRENGTH LEVEL	REMARKS		
					1	2	3
PARA	LINE	e	d	c	b	a	0
02	COMPANY HEADQUARTERS Track Vehicle Mechanic	E4	63C20	11			
03	BATTALION HEADQUARTERS SECTION Asst Intelligence Sergeant Light Truck Driver	E5 E3	11D40 11E10	1 6			
06	BATTALION COMMUNICATIONS PLATOON Comm Chief Sr Radio Mechanic	E7 E6	31C40 31C40	1 1			
08	2 SCOUT SECTIONS Scout Observers	E3	11D10	17			
10	4 MORTAR SQUADS Squad Leader	E6	11C40	4			
12	TRANSPORTATION SECTION Track Section Leader Sr Tracked Vehicle Driver Tracked Vehicle Driver Asst Track Vehicle Driver Truckmaster Ammo Specialist	E5 E5 E4 E3 E7 E5	11C40 11C20 11C20 11C20 64C40 11E40	1 2 6 3 1 1			

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(S) Review: declassified  
after 18 years.

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## TABLE OF ORGANIZATION & EQUIPMENT SECTION III: EQUIPMENT ALLOWANCES

TOE 17-37G

PARA. A.	LINE ITEM		DESCRIPTION C.	EQUIP. LEVEL	
	EGG B.	BASIC CMD. D.		1 D.	RMK I.
01	B49546	3	*Bayonet-Knife: w/scabbard for M14 Rifle	29	
	B67218	3	*Binocular: 7 x 50 Military Reticle	5	
	B67269	2	Binocular: Infrared Driving Metallic Body	5	529
	H73666	2	X Flashlight: PLS RGHT ANG 2 Cell MIN FGE Lamp WRTGHT	16	800
	J71304	8	Goggles Sun Wind & Dust: Single-Aperture two Plastic Lenses	15	909
	N55650	8	Panel Marker: Aerial LN Type VS 17/GVX	4	
	Q54618	1	*DELETE		
	Q78282	1	*Radio Set Control Group: AN/GRA-39	3	
	R95114	3	*Rifle 7.62mm	14	
	U29238	2	Starlight Scope Hand Held or Weapon Mtd.	3	
	W95811	2	DELETE		
	X40146	2	*DELETE		
	X60833	2	*Truck Utility: 1/2 Ton W/E	1	
	D12086	1	*Carrier, Pers, Full Trkd: Armored M113A1	2	113 116
	02	Q45964	1	*Radio Set: AN/VRC-12 mtd in 1/2 Ton Trk	1
Q55188		1	*Radio Set: AN/VRC-49 in M113A1	1	113
Q53223		1	*Radio Set: AN/VRC-46 in M113A1	1	116
D11048		C	*Carrier Cargo FT M548	1	122
B49546		3	*Bayonet-Knife: W/Scabbard for M14 Rifle	16	
	N96741	3	*Pistol Caliber .45 Automatic	12	

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TABLE OF ORGANIZATION & EQUIPMENT  
SECTION III: EQUIPMENT ALLOWANCES

TOE 17-37G

PARA. A.	LINE ITEM		DESCRIPTION C.	EQUIP. LEVEL	
	ECC	BASIC/CND		D.	RMK. I.
02	R50680	3	*DELETE		
	W32730	3	DELETE		
	W57801	3	Tool Kit Turret Mechanic:	3	
	W95537	2	*DELETE		
	W95811	2	DELETE		
	X39872	2	DELETE		
	X40146	2	DELETE		
	W50543	1	*Recovery Veh, Light M578	1	119
	W32593	1	*Tool kit, auto, Common #1	1	118
	D11048	c	* Carrier, Cargo MT M548	1	122

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Declassify at 5 year  
intervals; declassified  
after 10 years

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## TABLE OF ORGANIZATION & EQUIPMENT SECTION III: EQUIPMENT ALLOWANCES

MTOE 17-386

PARA A.	LINE ITEM		DESCRIPTION C.	EQUIP. LEVEL		REMARK I.
	BCC	BASIC QCMD		D.	J.	
03	Q53112	1	*Radio Set: AN/VRC-46 Mounted in Carrier Comd Light Tracked	2		555
	Q54285	1	*Radio Set: AN/VRC-47 Mounted in Carrier Comd Post Light Tracked	2		
	Q54618	1	*Radio Set: AN/VRC-47 Mounted in Truck $\frac{1}{2}$ T	3		
	Q90474	1	*DELETE			
	Q55151	1	*Radio Set: AN/VRC-49 mtd in Carrier Comd Post	1		
	Q 55299	1	*Radio Set: AN/VRC-49 mtd in truck $\frac{1}{2}$ T	1		
04	J42685	2	*Gen St Gas Eng: 0.3 KW AC 115V 1PH 400CY DC 24 To 35V	6		532
	J42822	2	DELETE			
	Q16099	1	*Radar Set: AN/PPS-4	6		
	Q17469	1	*DELETE			
05	Q45945	1	*Radio Set-AN/VRC-12 Mtd in Tank M551	3		
	Q53704	1	*DELETE			
06	D11538	3	*Carrier Comd Post: Light Tracked	2		559
	Q55151	1	*DELETE			
	W95537	2	*DELETE			
	X39872	2	*DELETE			
	U81707	1	*Switchboard SB-22	1		
07	Q53112	1	*Radio Set: AN/VRC-46 mtd in Carrier Comd Post	1		
	D11401	3	*DELETE			
	D12086	3	*Carrier Personnel Full Tracked: Armored	2		

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 TABLE OF ORGANIZATION & EQUIPMENT  
 SECTION III: EQUIPMENT ALLOWANCES

MTOE 17-36G

PARA	LINE ITEM ECC BASIC CMD	DESCRIPTION	EQUIP LEVEL 1	REMARKS	
a	b	c	d	i	
07	Y42371	2 Delete			
	U29238	2 Starlight Scope, hand or wpn mtd	2		
	L92386	3 *Machine Gun, General purpose M60, 7.62mm	2		
08	A71438	1 * Delete			
	D11401	3 * Delete			
	U29238	2 Starlight Scope hand held or wpn mtd	8	509	
	Y42371	2 * Delete			
	D12086	3 *Carrier Personnel FT	8		
	L92386	3 *Machine Gun, General purpose M60, 7.62mm	8		
	G32473	2 Diving Equipment set Scuba	5		
09	Q54618	1 * Delete			
	W95400	2 * Delete			
	X60833	2 *Truck utility: 1/2 ton W/E	3		
	Y42371	2 Delete			
	D12086	3 *Carrier Personnel, FT	1		
	Q45816	1 *Radio Set AN/VRC-12 mtd in Carrier Pers FT	1		
12	J71304	6 Goggles Sun Wind, Dust single aperture two plastic lenses	41	251	
	X40831	2 *Truck Cargo 5 Ton 6x6 LWB W/E	9	545	
	D10790	2 *Carrier Cargo FT M548	6		
	Q54618	1 *Radio Set AN/VRC-47 mtd in truck 1/2 ton	1		
	Q53075	1 *Radio Set AN/VRC-46 mtd in Carrier Cargo FT	2		

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TABLE OF ORGANIZATION & EQUIPMENT  
SECTION III: EQUIPMENT ALLOWANCES

TOE 17-36G

PARA A.	LINE ITEM			DESCRIPTION	EQUIP. LEVEL D.	BMK I.	
	BCC	BASIC	CMD				
16	B19546	3		*Bayonet-Knife: W/Scabbard for M14 Rifle	10	302.	
	C20414	2		*DELETE			
	J71304	8		Goggles Sun Wind & Dust: Single-Aperture two plastic lenses	9	251	
	L43664	2		*DELETE			
	Q55510	1		*Radio Set: AN/VRC-53	4	551	
	R95114	3		*Rifle 7.62mm	10		
		2		*Bridge, M113 Launched, Aluminum	4		
		2		*Launcher, M113 for Bridge, Aluminum	4		
	17	J71304	8		Goggles Sun Wind & Dust: Single-Aperture Two Lenses	16	251
		N96741	3		*Pistol Caliber .45 Automatic:	7	
Q54037		1		*DELETE			
R50680		3		*DELETE			
W33004		8		*Tool Kit Automotive Mechanics: Light Wt.	23	219	
W57801		3		*Tool Kit Turret Mechanic:	3		
X39872		2		*Truck Cargo: 3/4 Ton 4 x 4 W/Winch W/E	1		
X63299		2		*Truck Wrecker: 5 Ton 6 x 6 w/winch W/E	2		
R50543		2		*Recovery Vehicle Light M578	2		
M2086		3		*Carrier, Personnel, FT Armored	1		
Q54322	1		*Radio Set: AN/VRC-47 mtd in Carrier, Personnel FT	1			
18	Q56731	1		*DELETE			

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 TABLE OF ORGANIZATION & EQUIPMENT  
 SECTION III: EQUIPMENT ALLOWANCES

TOE 17-36G

PARA	LINE ITEM ECC BASIC CLD	DESCRIPTION	EQUIP LEVEL 1	REMARKS
a	b	c	d	i
18	Cont			
	Q53186 1	*Radio Set AN/VRC-46 mtd in Carrier, Personnel Full Tracked Armored	1	
	R88696 7	Resusitator Aspirator	5	
21	D12086 3	*Carrier, personnel, Full Tracked Armored	3	
	J71304 8	Goggles Sun Wind, Dust Single aperture two plastic lenses	12	251
	Q55621 1	*Radio Set AN/VRC-53 mtd in Carrier Personnel Full Tracked Armored	3	
	X38639 2	*Truck Ambulance 1/2ton 4x4 W/E	2	

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