

Tank Destroyer School

DEPARTMENT of TACTICS

Camp Hood, Texas



Tank Destroyer Umpire Charts

UMPIRE MANUAL ILLUSTRATING FM-105-5

The Charts herein present graphically the Rules dealing with Fire-Power and Penalties (Losses and Delays) laid down in FM-105-5, Dated April 23, 1942.

Each Chart carries a reference showing where the Rule may be found in the Umpire Manual.

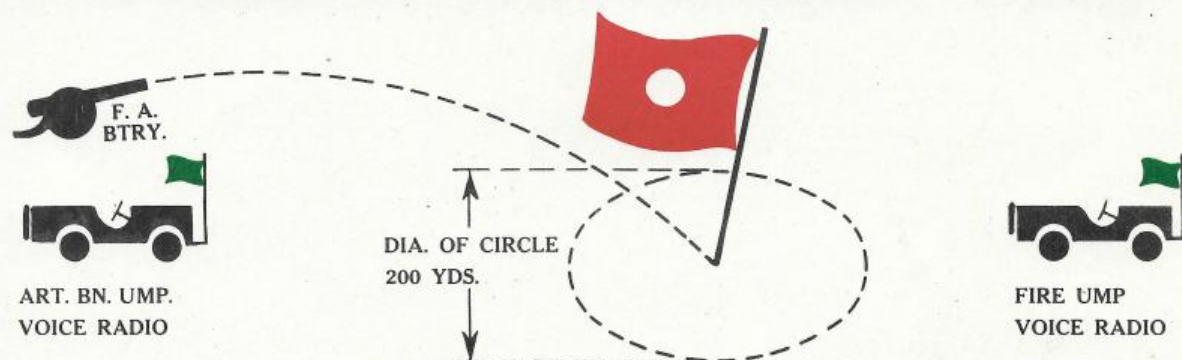
MAY 1943

TDS-108

INDEX

CHART	PAGE
MARKING ARTILLERY FIRE — — — — — — — — — —	1
EFFECT OF ARTILLERY FIRE	
DELAYS — — — — — — — — — —	1
VEHICLES PASSING THRU — — — — — — — — — —	2
VEHICLES WITHIN — — — — — — — — — —	2
EFFECT OF AIR ATTACKS	
LOSSES — — — — — — — — — —	3
DELAYS — — — — — — — — — —	4
EFFECTIVE RANGES - T. D. WEAPONS — — — — — — — — — —	5
FIRE POWER - T. D. vs. TANKS — — — — — — — — — —	6
EFFECT OF VARIOUS WEAPONS ON T. D. GUNS — — — — — — — — — —	7
T. D. GUNS vs. INFANTRY — — — — — — — — — —	7
EFFECT OF GRENADES AND MINES — — — — — — — — — —	8
EFFECT OF ANTIAIRCRAFT FIRE — — — — — — — — — —	8

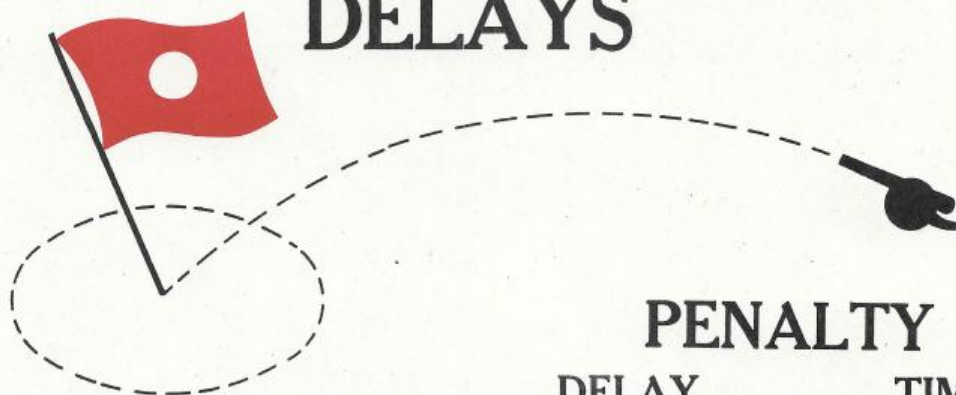
MARKING ARTILLERY FIRE



FOR MARKING ARTILLERY FIRE - PAR. 29.

FOR PROCEDURE OF MARKING ARTILLERY FIRE - PAR. 31.

EFFECT of ARTILLERY FIRE DELAYS



PENALTY

		DELAY	TIME
ROAD		ADVANCE OF T D UNIT	DURATION OF FIRE
BRIDGE		ADVANCE OF T D UNIT	DURATION OF FIRE
DEFILE		ADVANCE OF T D UNIT	DURATION OF FIRE
PONTON BRIDGE UNDER CONSTRUCTION		CONSTRUCTION OF BRIDGE DELAYED	DURATION OF FIRE

SAME FOR BRIDGE IF UNDER SMALL ARMS FIRE AT LESS THAN 1,000 YDS.

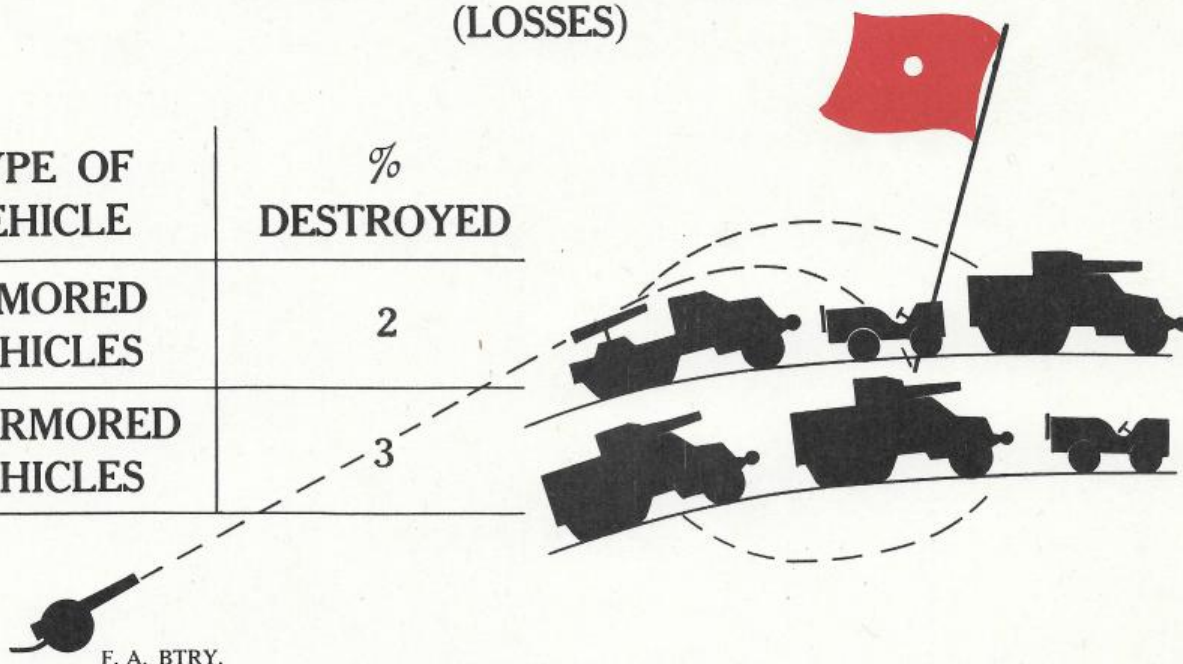
DELAY DUE TO FIRE ON ROAD, BRIDGE OR DEFILE - PAR. 28A.

DELAY OF PONTON CONSTRUCTION - PAR. 28B.

EFFECT of ARTILLERY FIRE

VEHICLES PASSING THROUGH
A BATTERY CONCENTRATION
(LOSSES)

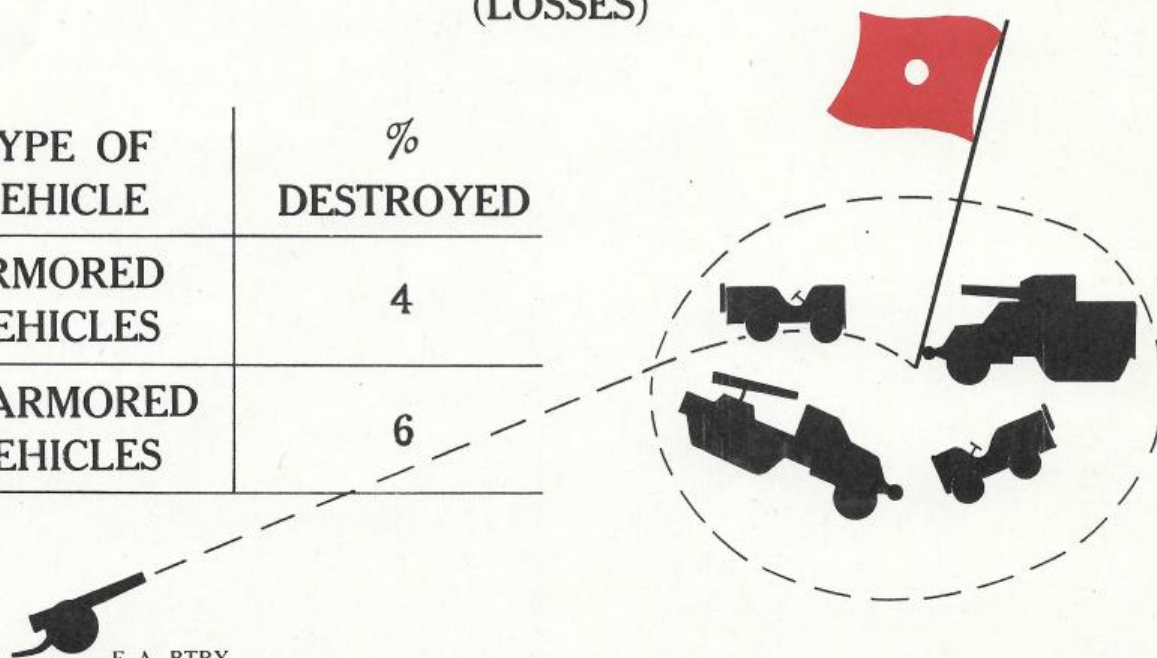
TYPE OF VEHICLE	% DESTROYED
ARMORED VEHICLES	2
UNARMORED VEHICLES	3



SEE PARAGRAPH 22F-(1)

VEHICLES WITHIN
A BATTERY CONCENTRATION
(LOSSES)

TYPE OF VEHICLE	% DESTROYED
ARMORED VEHICLES	4
UNARMORED VEHICLES	6



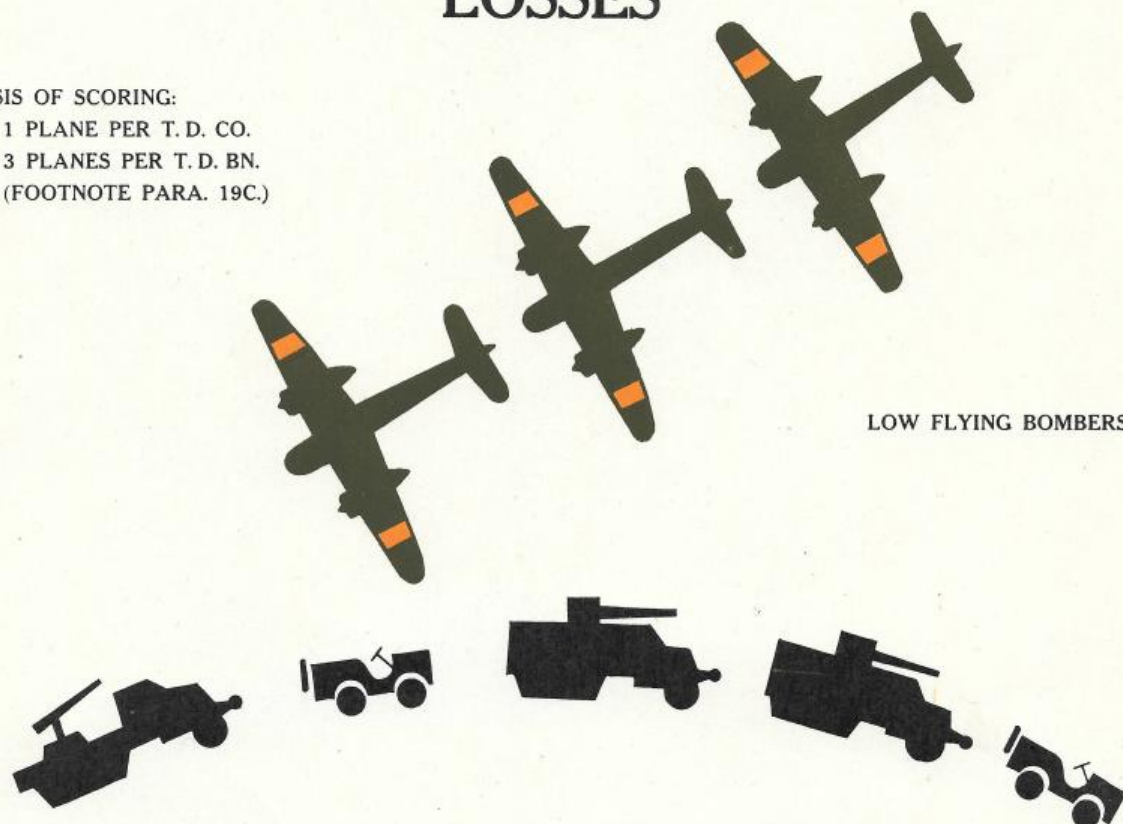
SEE PARAGRAPH 22F-(2)

EFFECT of AIR ATTACKS

LOSSES

BASIS OF SCORING:

- 1 PLANE PER T. D. CO.
- 3 PLANES PER T. D. BN.
- (FOOTNOTE PARA. 19C.)



LOSSES per AIRPLANE per ATTACK

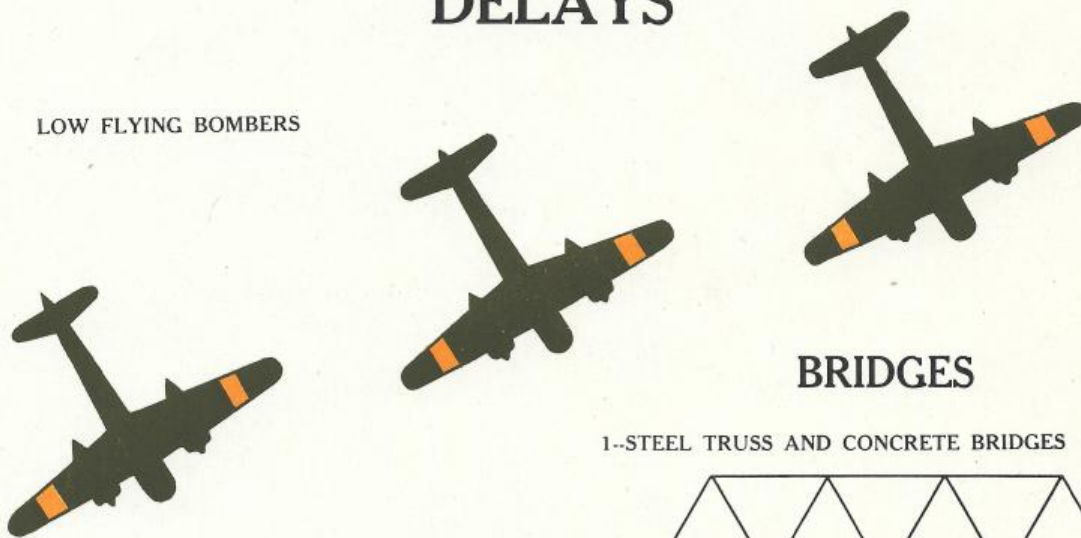
LOSSES	VEHICLES	
	ARMORED	UNARMORED
ATTACK WITH SURPRISE	1	2
ATTACK WITHOUT SURPRISE	$\frac{1}{5}$	$\frac{1}{3}$

SEE PARA. 22F. FOR LOSSES; 22G. FOR PERIOD OF OUT OF ACTION; 22H. RE. AMBULANCES; RATION AND MAIL TRUCKS; 22I. RE. CARGOES OF VEHICLES.

EFFECT of AIR ATTACKS

DELAYS

LOW FLYING BOMBERS



COLUMNS



T. D. UNIT IN COLUMN -
DELAY OF 30 MINUTES



FOOT TROOPS IN COLUMN -
DELAY OF 15 MINUTES

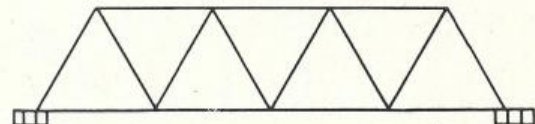


TANK COLUMN -
DELAY OF 30 MINUTES

SEE PARA. 28E.

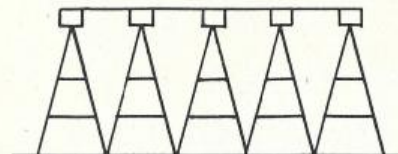
BRIDGES

1--STEEL TRUSS AND CONCRETE BRIDGES



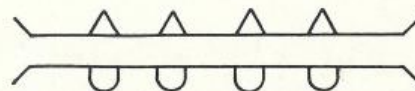
- A. 1--HIT--100 lb. BOMB--NO EFFECT.
- B. 1--HIT--300 lb. TO 600 lb. BOMB--DELAY.
2 HRS. AFTER ARRIVAL OF MEN &
MATERIAL (1 PLATOON ENGS. W 2
TRUCKS OF TIMBER.)
- C. 1--HIT--1000 lb. - 2000 lb. BOMB--DELAY
OF 3 HRS. AFTER ARRIVAL OF MEN
& MATERIAL (1 PLATOON ENGS.
W 3 TRUCKS OF TIMBER.)

2--WOODEN HIGHWAY AND R.R. BRIDGES



- 1--HIT --- 100 lb. BOMB & UP --- SAME AS
B. ABOVE.

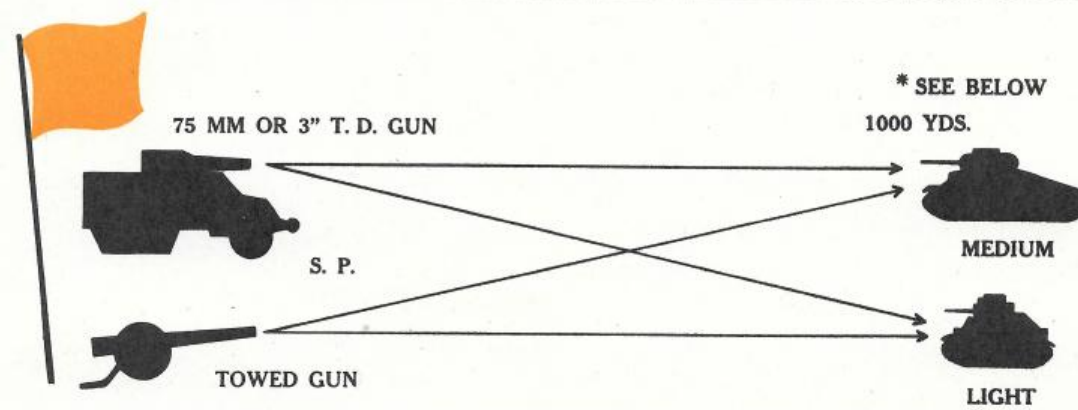
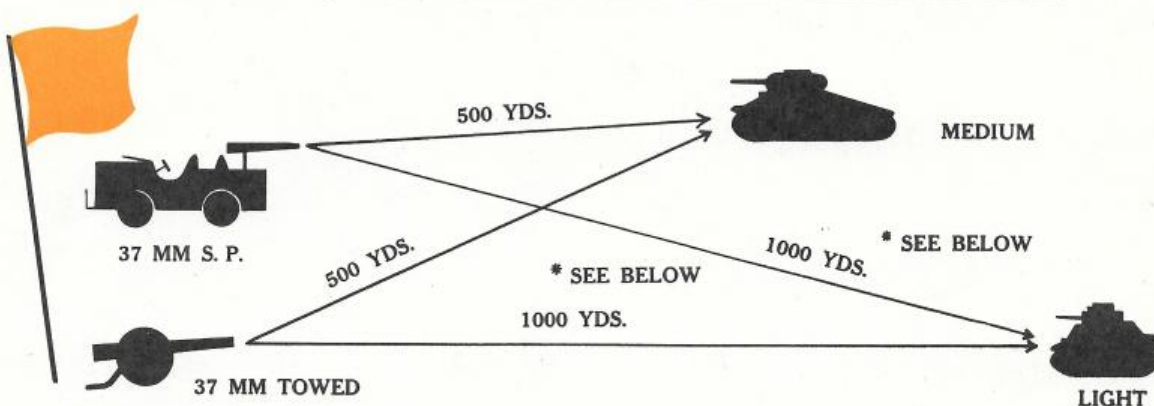
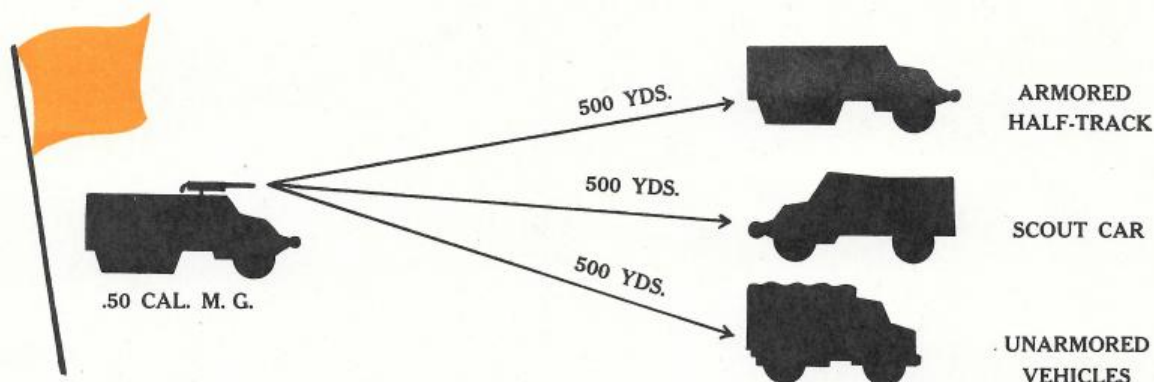
3--PONTON BRIDGE



- A. 1--HIT--100 lb. BOMB & UP --- 1 HR.
AFTER ADD'L. MATERIAL FOR 1 3 OF
BRIDGE IS ON SITE.

SEE PARA. 27E.

EFFECTIVE RANGES TD WEAPONS



EFFECT OF T. D. FIRE FROM STATIONARY GUN - SEE PARA. 22C.
LOSSES OF VEHICLES OVERRUNING A T. D. GUN - SEE PARA. 22F.

* LOSSES ARE NOT ASSESSED WHEN FIRE DUELS
ARE AT RANGES OVER 500 YDS.

FIRE POWER TD vs. TANKS

LOSSES ARE NOT ASSESSED WHEN FIRE
DUELS ARE AT RANGES OVER 500 YDS.

(SEE PARA. 24C.)

1. WHEN TANK DESTROYER
GUNS (SP OR TOWED) OR
TANKS ARE BEHIND NAT-
URAL OR ARTIFICIAL COV-
ER.*

TOWED
GUN



SCORE
2

S. P.



SCORE
2

LIGHT



SCORE
2

MEDIUM



SCORE
4

SEE PARA. 24E.

2. WHEN TD GUN OR TANK
IS UNPROTECTED BY COVER.

TOWED
GUN



SCORE
1

S. P.



SCORE
1

LIGHT



SCORE
1

MEDIUM



SCORE
2

SEE PARA. 24E.

NOTES. T. D. GUN MUST DISPLAY ORANGE FLAG AND KEEP GUN
ACCURATELY LAID ON TARGET TO RECEIVE CREDIT FOR
FIRE.

IF WEAKER GUN WITHDRAWS UNDER COVER WITHIN 30
SEC. AFTER HOSTILE FIRE OPENS, IT WILL NOT BE DES-
TROYED.

* CONCEALMENT IS NOT COVER NECESSARILY.

EFFECT of VARIOUS WEAPONS ON TD GUNS

S. P. T. D. GUN



LT. TANK

- T. D. GUNS OVERUN BY TANKS
OR ARMORED VEHICLES UNLESS
DESTROYED BEFOREHAND BY
FIRE -

LOSSES AS ASSESSED BY UMPIRE.

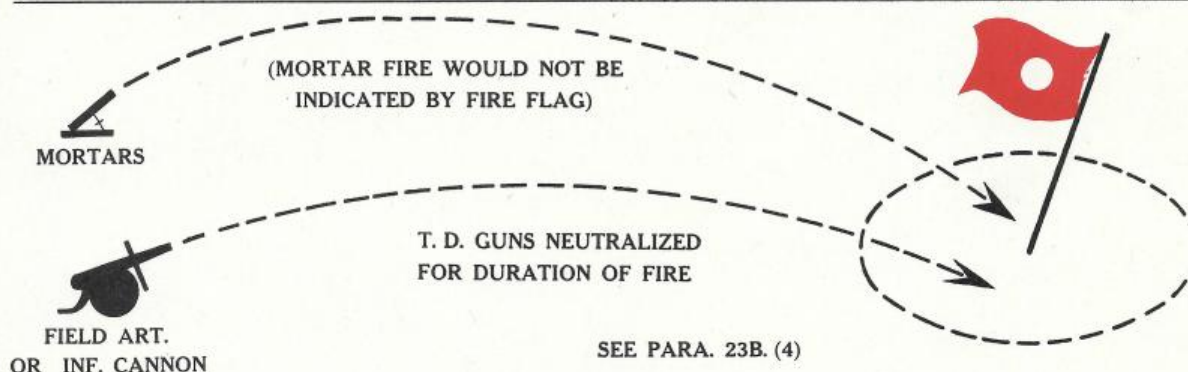


LT. TANK

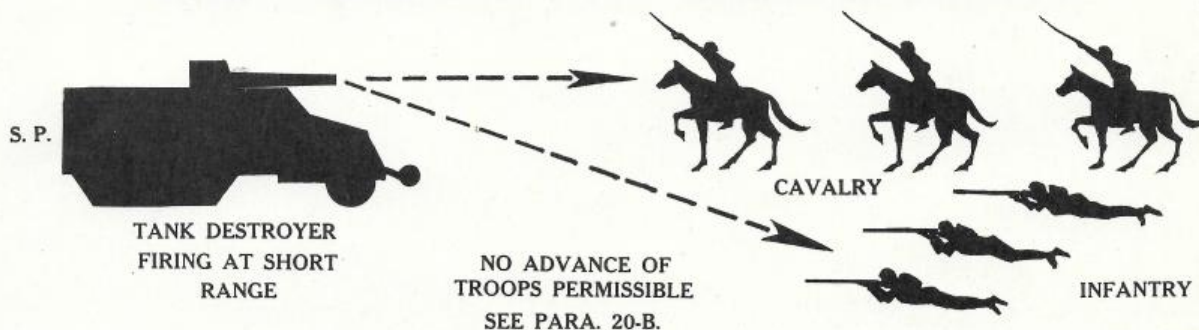


LT. TANK

SEE PARA. 23B. (3)



TD GUNS vs. INFANTRY



S. P. T. D. GUN



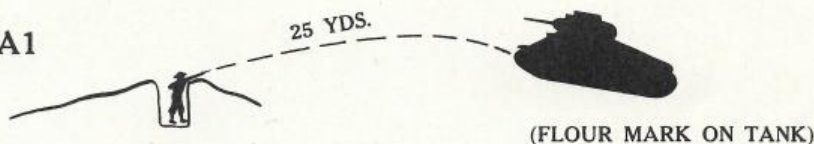
HOSTILE INFANTRY

CAPTURE AND DESTRUCTION
OF T. D. GUNS BY FOOT TROOPS
IS BASED ON THE RELATIVE FIRE
POWER OF T. D. SECURITY FOR-
CES AND ATTACKING FORCES,
WHEN T. D. GUN IS ATTACKED
FROM OTHER THAN THE DIREC-
TION OF FIRE.

SEE PARAS. 20B. AND 23B.

EFFECT of GRENADES & MINES

1. RIFLE GRENADE M9A1



A. WHEN THROWN BY HAND (FLOUR SACK), SOLDIER MUST BE CONCEALED OR BLIND TO FIRE FROM THE TANK. SEE PARA. 22E(1)-(REVISION)

B. WHEN TANKS WITHIN 75 YDS. RIFLEMEN EQUIPPED WITH GRENADES AND WHO SIMULATE FIRE ON TANKS FROM A CONCEALED POSITION MAY BE CREDITED WITH 25 PER CENT OF THE SHOTS FIRED. BLANK CARTRIDGES FIRED AT NOT OVER 10 ROUNDS PER MINUTE WILL BE CONSIDERED AS EFFECTIVE. SEE PARA. 22E(2) (REVISION)

2. MINES



MUST GIVE OFF SMOKE

PRACTICE MINES MUST BE RUN OVER BY TANKS, AND TO BE CLASSED AS EFFECTIVE, MUST GIVE OFF SMOKE AFTER DETONATION.

1 VEHICLE PER MINE DETONATED.

SEE PARA. 22D.

EFFECT of ANTI-AIRCRAFT FIRE

.50 CAL. (DUAL) AA MG.

