Copyright©2013 "Steel Wheels - WWII" ver. 2.4 (Rulebook for game of tactical warfare between armored units in the World War II)

 Game charts - 4 A4 format pages.

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	GAME PROCEDURE TABLE
GAME TURN:	<ol> <li>Maneuver-chips assignment (1 for each platoon-unit less);</li> <li>Indirect fire planning;</li> <li>Maneuvers phases (1 platoon/battery at a time for both armies) of all units on battlefield;</li> <li>Artillery indirect fire;</li> <li>End turn of game.</li> </ol>
MANEUVER - CHIPS Assignment:	<ul> <li>Players count how many platoon-units there are in the respective Armies, the one with the smallest army takes 1 maneuver-chip for each platoon less. A maneuver-chip may be played rather than performing a platoon maneuver.</li> </ul>
INDIRECT FIRE PLANNING:	<ul> <li>Table "COMUNICATION": to verify communication distance between team which is requesting indirect artillery fire and the artillery unit;</li> <li>Table "TEST": to perform DFR or IFR communication test to submit indirect fire request to the artillery unit;</li> <li>If test fails, indirect artillery fire is not available, otherwise player can place on battlefield five I.F. target markers per artillery battery/platoon.</li> </ul>
MANEUVER PHASES: (players alternated)	<ul> <li>First player declares maneuver of a platoon/battery or it plays a maneuver chip;</li> <li>Second player declares maneuver of a platoon/battery which has to fight to contrast the maneuver of the first player, or it plays a maneuver chip;</li> <li>Table "TEST": to perform a Readiness Test, to determine the exact actions sequence of all team-units involved in the same maneuver phase;</li> <li>Actions performing of all team-units (or vehicles) based on priority determined by results of tests RT;</li> <li>Repeat procedure until all platoons/batteries of both players have performed a maneuver.</li> </ul>
SIMPLE MANEUVERS:	<ul> <li>Fleeing-units recovery - Team perform a Courage Test for each leader, if a CT successful, team may perform a "Tactical" movement.</li> <li>Lurk - a team unit (or vehicle) stays motionless and ready to fire, performing no action;</li> <li><u>Conceal</u> - team unit (orly infantry or artillery up to caliber 60mm) moves without exceeding the "Slow" movement of the "Unit chart";</li> <li><u>Fire</u> - team unit (or vehicle) fires the "Stationary" number of shots, with each single weapon listed into the "Unit chart".</li> <li><u>Move</u> - team unit (or vehicle) moves from 1 cm up to the "Tactical" number of cm into the section "Movement" of the "Unit chart";</li> <li><u>Hook on</u> - carrier vehicle hooks artillery piece, it cannot move and it must begin maneuver-segment with the rear near the tails of the artillery piece;</li> <li><u>Unhook</u> - carrier vehicle unbooks artillery piece, vehicle cannot move in the same maneuver-segment;</li> <li><u>Embark</u> - infantry/mortars team dismount from the vehicle, all miniatures must start the movement within 8 cm from sides or rear of vehicle;</li> <li><u>Disembark</u> - infantry/mortars team dismount from the vehicle, all miniatures must be placed within 16 cm from the sides or the rear of the vehicle.</li> </ul>
COMPLEX MANEUVERS:	<ul> <li><u>Move and fire</u> - (or vice versa) team unit performs a "Brief" movement, then it fires the "Moving" number of shots for each weapon into the unit chart;</li> <li><u>Fire and conceal</u> - team unit (only infantry and some artillery) fires the "Moving" number of shots, then it performs a "Slow" movement;</li> <li><u>Unhook and fire</u> - (or vice versa) vehicle unhooks the artillery piece without moving, while it fires the "Stationary" number of shots with each weapon;</li> <li><u>Hook and fire</u> - (or vice versa) vehicle hooks on the artillery piece without moving, while it fires the "Stationary" number of shots with each weapon;</li> <li><u>Load and fire</u> - (or vice versa) vehicle picks up the infantry/mortars team, while it fires the "Stationary" number of shots with each weapon;</li> <li><u>Unload and move</u> - (or vice versa) vehicle unloads the team then it performs a "Brief" movement, also it may fire the "Moving" number of shots;</li> <li><u>Assault</u> - team or armored vehicle fires the "Moving" shots number and performs a "Tactical" movement to take contact with an enemy unit.</li> </ul>
UNIT MOVEMENT:	<ul> <li>Section "Movement" of the unit chart: to know distance, measured in cm, which team unit can move during the movement segment;</li> <li>Table "TERRAIN EFFECTS": to determine if team unit (or vehicle) can transit on specific terrain type and the appropriate movement mode;</li> <li>- if terrain is mined, "MINEFIELD EFFECTS" table must be consulted for each unit which moves on it.</li> </ul>
LIGHT WEAPONS DIRECT FIRE:	<ul> <li>Table "SPOTTING": to verify if team or vehicle can spot the type of enemy unit on a specific terrain type;</li> <li>Section "WEAPONS" of the unit chart: to determine how many light weapons can fire and how many ammunition for each type;</li> <li>Table "LIGHT WEAPON FIRE": to determine effect of fire on target unit.</li> </ul>
HEAVY WEAPONS DIRECT FIRE:	<ul> <li>Table "SPOTTING": to verify if team unit or vehicle can spot the type of enemy unit on the respective terrain type;</li> <li>Section "Weapons" of the unit chart: to determine how many heavy weapons can fire and how many ammunition for each type;</li> <li>Table "HEAVY WEAPONS FIRE": to determine if target units is hit and which part of it; <ul> <li>if target is missed by ammunition "HE" type, use table "HEAVY WEAPONS SCATTER";</li> <li>if target is armored or it is a building, use table "ARMOUR PENETRATION";</li> </ul> </li> <li>Table "HEAVY WEAPONS EFFECTS": to determine which kind of damages and/or casualties are inflicted to the target unit; <ul> <li>if target is a building, use table "HEAVY WEAPONS EFFECTS AGAINST BUILDINGS";</li> </ul> </li> <li>Table "TEST": CF (can't fire) for each shell that hits a target which it has not fired yet in the current turn (also if shot does not damage the target);</li> </ul>
FRAGMENTS OF AMMUNITION HE:	<ul> <li>Section "Weapons" of the unit chart (fragments);</li> <li>Table "HEAVY WEAPONS FIRE": to determine if target is hit by fragments of ammunition HE (see column including fragmentation symbol);</li> <li>if the target is armored or it is a building, use table "ARMOUR PENETRATION" (see row including fragmentation symbol);</li> <li>if target is a building, use table "HEAVY WEAPONS EFFECTS AGAINST BUILDINGS";</li> <li>Table "HEAVY WEAPONS EFFECTS": to determine which kind of damages and/or casualties are inflicted to the target;</li> <li>Table "TEST": CF (can't fire) for each shot that hits a target which it has not fired yet in the current turn (also if fragments do not damage target);</li> </ul>
INCENDIARY WEAPONS:	<ul> <li>Section "Weapons" of the unit chart: to determine dimension of area burned by flames.</li> <li>Table "INCENDIARY WEAPONS EFFECTS": to determine which kind of damages and/or casualties are inflicted to the targets within burned area.</li> </ul>
ASSAULT:	<ul> <li>Infantry team against infantry or artillery: table "TEST" to perform a CT test for the unit, then to perform a Melee Test for each miniature involved;</li> <li>Infantry against open topped vehicles: table "TEST" to perform a CT test for the unit, then table "HEAVY WEAPONS FIRE", if hit miss the target use table "HEAVY WEAPONS SCATTER", then table "HEAVY WEAPONS EFFECTS";</li> <li>Infantry against vehicles and buildings: use procedure "HEAVY WEAPONS DIRECT FIRE" and/or "FRAGMENTS OF AMMUNITION HE";</li> <li><u>Armored vehicles against infantry or not armored vehicles</u>: use table "TEST" to perform a Dodge Test, for each model under overrun attack, then if it is rammed, use table "HEAVY WEAPONS EFFECTS" to determine kind of damages and/or casualties.</li> </ul>
INDIRECT FIRE:	<ul> <li>Table "TEST": to perform an RT, to establish fire priority for artillery units placed on game board, then for out game board ones;</li> <li>Table "HEAVY WEAPONS SCATTER ": to find the impact point for each grenade around at proper indirect fire marker;</li> <li>If an unit is directly hit by an artillery shell see procedure "HEAVY WEAPONS DIRECT FIRE " otherwise "FRAGMENTS OF AMMUNITION HE".</li> </ul>

	COMBAT SKILL	
	Skills	CS
RECRUIT	-No skilled teams	0
SKILLED	-Low skilled teams	1
VETERAN	-Normal skilled teams	2
ELITE	-High skilled teams	3

## **COMMANDER RANK** CR Ranks CORPORALS 0 SERGEANTS and POLITICAL COMMISSAIR 1 LIEUTENANT 2 **CAPTAIN** and higher ranks 3

				TERRAIN	EFFECTS				
TERRAIN	١			l	JNITS MOVEME	NT ALLOWAN	CE		
TYPE	SHELTER	Tanks	Half-tracks	Armored cars	Trucks/Tractors	Jeeps/Cars	Bikes	Artillery units	Infantry/mortars
Flat - clear	-	tactical	tactical	tactical	tactical	tactical	tactical	tactical	tactical
Flat - crops	-	tactical	tactical	brief	brief	brief	brief	brief	tactical
Flat - trees	S soft	brief	brief	brief	slow	brief	slow	slow	tactical
Flat - rough	M medium	brief	slow	slow	slow	slow	slow	impassable	brief
Slope - clear	S soft	brief	brief	brief	brief	brief	brief	slow	brief
Slope - trees	S soft	slow	slow	impassable	impassable	impassable	impassable	impassable	brief
Slope - rocks	M medium	impassable	impassable	impassable	impassable	impassable	impassable	impassable	brief
High rocks - cliffs	M medium	impassable	impassable	impassable	impassable	impassable	impassable	impassable	slow +DT
Hill top - clear	-	tactical	tactical	tactical	tactical	tactical	tactical	tactical	tactical
Hill top - trees	S soft	brief	brief	brief	slow	brief	slow	slow	tactical
Ford	-	brief	brief	slow	slow	slow	slow	slow	brief
Swamp	S soft	impassable	impassable	impassable	impassable	impassable	impassable	impassable	slow
Stream	-	impassable	impassable	impassable	impassable	impassable	impassable	impassable	impassable
Brick house	M medium	impassable	impassable	impassable	impassable	impassable	impassable	impassable	tactical
Wooden house	S soft	brief /ruins	impassable	impassable	impassable	impassable	impassable	impassable	tactical
wall	M medium	brief /remove	slow/ remove	impassable	impassable	impassable	impassable	impassable	brief
Hedges	-	tactical /remove	tactical /remove	tactical /remove	tactical /remove	slow	impassable	slow	brief
Bunker	H hard	impassable	impassable	impassable	impassable	impassable	impassable	impassable	tactical
Trenches	M medium	slow	impassable	impassable	impassable	impassable	impassable	impassable	tactical
Sand bags	M medium	brief / remove	slow/ remove	impassable	impassable	impassable	impassable	impassable	tactical
Anti tank obstacles	S soft	impassable	impassable	impassable	impassable	impassable	slow	impassable	tactical
Barbed wire	-	brief / remove	brief / remove	slow	impassable	impassable	impassable	impassable	slow +DT
Minefield	-	slow +DT	slow +DT	slow +DT	slow +DT	slow +DT	slow +DT	slow +DT	slow +DT
Barricades	S soft	brief /move	brief /move	brief /move	impassable	impassable	impassable	impassable	slow
	S soft	brief /move	brief /move	impassable	impassable	impassable	impassable	impassable	brief
	M medium	impassable	impassable	impassable	impassable	impassable	impassable	impassable	brief
Roads	-	2 cm each 1	2 cm each 1	3 cm each 1	3 cm each 1	3 cm each 1	3 cm each 1	tactical	tactical
tactical infantry m									
DI = units n	nust perform a	an avoid test", if	test falls, team or	venicle jump on r	nine (use "Minefield	effect table"), inf	antry team canno	t climb or pass ob	stacies.

		SPOTT	NG			
			NOR	MAL	RED	JCED
Type of unit to spot	On terrain type	Status unit to spot	from out of area cm	from within area cm	from out of area cm	from within area cm
Tank, Self propelled gun,	Clear, crops, roads	stationary moving firing	150 400 600	150 400 600	100 320 480	100 320 480
Half-track, Truck (1/3 visible silhouette at	Trees, ruins, houses, trenches	stationary moving firing	60 180 240	24 40 50	40 120 180	12 20 30
least)	Rocks, urban, others	stationary moving firing	100 300 500	50 150 250	80 240 400	40 120 200
Small Tank or SPG, Armored-car.	Clear, crops, roads	stationary moving firing	100 240 400	100 240 400	60 180 280	60 180 280
Armored-car, Jeep, Car, Artillery (1/3 visible	Trees, ruins, houses, trenches	stationary moving firing	40 120 180	21 30 40	20 80 160	9 15 20
silhouette at least)	Rocks, urban, others	stationary moving firing	80 160 300	30 80 150	40 120 200	20 60 100
Infantry,	Clear, roads	stationary moving firing	80 120 160	80 120 160	40 70 120	40 70 120
Mortars, Bike (half base	Trees, rocks, ruins / houses, trenches	stationary moving firing	20 40/ <b>20</b> 80	12 18/ <b>12</b> 24	10 20/ <b>10</b> 40	6 12/ <b>6</b> 18
visible at least)	Rough, crops, others	stationary moving firing	40 80 140	18 24 70	20 40 80	12 18 50

Any vehicle located in range of  ${\bf 4}$  cm from an infantry unit which is not fleeing, it automatically acquires the same sighting capacity

	MII	NEFIELD E	FFECTS									
DIE		TYPE OF UNIT										
D6	Tank, self propelled gun	Armored car, half-track	Truck, car, jeep, bike	Infantry team, artillery team								
1	-	immobilized	destroyed + 2dead	1 dead								
2	track broken	immobilized	destroyed + 3dead	1 dead								
3	track broken	immobilized	destroyed + 4dead	2 dead								
4	track broken	destroyed+saved	destroyed + dead	2 dead								
5	immobilized	destroyed+dead	exploded	3 dead								
6	destroyed+saved		exploded	3 dead								
sav	ed = all crew surviv	/ed; dead = all cre	w dead, always per	form CT test								

	CREW CASUALTIES						
DEAD	VEHICLES, ARTILLERY AND MORTARS UNITS						
1 dead or more	Unit will get 1 in place of rolling a die when it performs Readiness Tests ( <b>CR + CV + 1</b> ).						
50% dead or more	Unit can no longer perform complex maneuvers, but just the simple ones.						
just 1 survived	Unit can no longer fire heavy weapons, but just light ones.						
	All effects are cumulative						

COMMUNICATIONS										
	Maximum	distance								
TYPE OF UNIT	Direct sight	Interrupt								
	line	sight line								
Between miniatures of the same team or crew	16 cm	<b>8</b> cm								
Teams units or models of the same platoon	32 cm	<b>16</b> cm								
Teams units or models of the same platoon with radio	128 cm	64 cm								
Communications always have successful between so										
range of 8 cm. Entrenched units always have 128 cm	communication	range.								

## **HEAVY WEAPONS SCATTER / INACCURACY**

 Target missed by indirect HE fire
 Shot explodes on the ground D8 - CS cm away from target, distance starts from the edge of model toward direction of D8 harrow\*.

 Target missed by hand launched HE device
 Device explodes on the ground D8 - CS cm away from target, distance starts from the edge of model toward direction of D8 harrow\*.

 Mortars direct fire inaccuracy
 Grenade explodes D10 + D6 - CS cm away from target, distance starts from the center of model toward direction of D10 harrow.

 Indirect fire scatter of on-field artillery
 Shot explodes D12 + D10 - CS - CR cm from marked point, toward direction of D10 harrow. Exact point is hit for results less then 1.

 Indirect fire scatter of out-field artillery
 Shot explodes 2D12 + D10 - CS - CR cm from marked point, toward direction of D10 harrow. Exact point is hit for results less then 1.

 \*If die direction is toward the target, shot hits nothing by flying over it.
 If shot hits the open top of a vehicle, "Armor table" must not be used.

	HEAVY WEAPONS FIRE (D8 long range, D10 effective range/fragments, D12 short range)															
Die +	Die + CS Target - unit										Target - building					
Stationary target (☆,π)	Moving target	Big Tank, SPG, Assault gun	Tank, SPG, Assault gun (o SPG)	Small Tank, SPG, Armored car	Half-track	Truck, Tractor	Jeep, car, bike	Soldier (single)		N	(Wall of	Bunker (center of front wall)		· · · · · ·		
1 - 3	1-6	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	7	body	-	-	-	-	-	-	-	hit	-	-	-	-		
5	8	body	body	-	-	wheel	-	-	-	hit	-	-	-	-		
6	9	turret/casemate	turret/casemate	body	body	body	wheel	dead -S	-	hit	hit	-	-	-		
7	10	track	track	wheel/track	track	body	body	dead -M	shield	hit	hit	-	-	-		
8	11	turret/casemate	turret/casemate	turret/casemate	body	body	body	dead -M	shield	hit	hit	hit	-	-		
9	12	body	body	body	body	body	body	dead -H	shield	hit	hit	hit	hit	-		
10	13	choice	choice	turret/casemate	body	body	body	dead -H	gun	hit	hit	hit	hit	-		
+	+	choice	choice	choice	choice	body	body	dead	gun	hit	hit	hit	hit	hit		

 $\Leftrightarrow$  = blast fragments of ammunitions HE. π = artificial terrain elements (houses, buildings, trenches, bunkers). SPG = self propelled gun. **Dead** = miniature is eliminated; **S** = soldier survives if shelter is soft, medium or hard; **M** = soldier survives if shelter is medium or hard; **H** = soldier survives if shelter is hard.

HE shots which hit doors or windows explode on floor D6 cm inside building. AP shots which hit doors, windows or slits do not explode, they only kill soldiers along their trajectory. Each unit which has not yet performed maneuver in the current turn of game, it must performs a test CF (can't fire) when hit by heavy weapons fire (even without damages). Shells larger than **70 mm** deny soft shelters; Shells larger than **122 mm** deny medium shelters. "Choice" can be horizontal armor (or open top) if target is at least 5 cm lower.

	ARMOR PENETRATION (D8 long range, D10 effective range/fragments, D12 short range)																											
Caliber of	Caliber of weapon ARMOR THICKNESS (measured in cm) and Die scores to penetrate																											
AP	HE/AA			MPA	СТ	ANG	iLES		<u> </u>		d Indi	-					IN	ИРА	CT /	ANG	LES		-		b, Ex			
mm	mm	<b>1W</b>	2	3 <b>B</b>	4	5 <b>C</b>	6	7	8 <b>A</b>	9-10	11-12	13-14	15-16	>17	1	2	3	4	5	6	7	8	9-10	11-12	13-14	15-16	17-18	>18
-	11-19	9	-	-	-	-	-	-	-	-	-	-	-	-	7	12	-	-	-	-	-	-	-	-	-	-	-	-
-	20-30	7	11	-	-	-	-	-	-	-	-	-	-	-	6	9	12	-	-	-	-	-	-	-	-	-	-	-
13-20	31-40 / Hb	6	9	12	-	-	-	-	-	-	-	-	-	-	4	6	8	11	-	-	-	-	-	-	-	-	-	-
21-30	41-50 <b>/</b> 🌣	5	8	10	12	-	-	-	-	-	-	-	-	-	3	5	7	9	11	-	-	-	-	-	-	-	-	-
31-40 / 2p	51-60	4	7	8	9	12	-	-	-	-	-	-	-	-	1	3	5	7	9	10	11	-	-	-	-	-	-	-
41-50	61-70 <mark>/ 6p</mark>	4	6	7	8	10	11	-	-	-	-	-	-	-	1	1	2	4	7	9	10	11	-	-	-	-	-	-
51-60 / 50L	71-80 / Ex	3	5	6	7	9	10	11	-	-	-	-	-	-	1	1	1	2	4	6	8	9	11	-	-	-	-	-
61-70 <mark>/ 6p</mark>	81-90 <mark>/17-25p</mark>	3	4	5	7	8	9	10	11	-	-	-	-	-	1	1	1	1	3	5	7	8	10	12	-	-	-	-
71-80	91-106 / Mm	2	3	5	6	7	8	9	10	12	-	-	-	-	1	1	1	1	1	3	5	6	8	11	12	-	-	-
81-90/17-25p	107-122	2	3	4	5	6	7	8	9	10	11	-	-	-	1	1	1	1	1	1	2	4	6	8	10	11	-	-
91-106 / 75L	123-155	1	2	3	4	5	6	7	8	9	10	11	-	-	1	1	1	1	1	1	1	2	4	6	8	10	12	-
107-122/ 88L	156- 210	1	1	2	3	4	5	6	7	8	9	10	11	-	1	1	1	1	1	1	1	1	3	5	7	9	11	12
>122	>210	1	1	1	2	3	4	5	6	7	8	9	10	12	1	1	1	1	1	1	1	1	2	3	5	7	9	11
W = wooden wall	wooden walls; B = brick walls; C = cement or stones walls; A = bunker walls. 50L, 75L, 88L = German high performance cannons. 2p, 6p, 17-25p = English cannons. Hb = hand bombs; C = fragments of weapons HE; Ex = explosive bags; Mm = magnetic mines.																											

				HEAV	Y WEAPON	IS EFFECT	S				
D10	D10 Die TARGET'S PART										
Full shot	Fragments	Into the open top	Body of Tank, SPG, Assault-gun,	Body of Truck, Half-track,	Turret of Tank, Armored-car	Casemate of Tank, SPG, Assault-gun	Track, crawler	Body of Jeep, Car, Bike	Wheel	Artillery unit (cannon, howitzer)	
	Ramming		Armored-car					Ramming			
1	1 - 3	brief movement + dead	brief movement + CT	MG destroyed + 2 dead + CT	MG destroyed + 1 dead + CT	cannon blocked + 1 dead + CT	brief movement + CT	immobilized + 1 dead+ CT	destroyed + CT	cannon blocked + 1 dead +CT	
2 - 3	4 - 6	main weapon destroyed+ dead	MG destroyed + 1 dead + CT	immobilized + 3 dead + CT	turret blocked + 1 dead + CT	cannon destroyed + 2 dead + CT	slow movement + CT	immobilized + 2 dead + CT	destroyed + CT	carriage blocked + 2 dead +CT	
4 - 5	7 - 9	destroyed + dead	slow movement + CT	destroyed + 4 dead + CT	cannon destroyed + 2 dead + CT	cannon destroyed + 3 dead + CT	broken + CT	destroyed + dead	destroyed + CT	destroyed + 3 dead +CT	
6	10	destroyed + dead	immobilized + 1 dead + CT	destroyed + 5 dead + CT	destroyed + 3 dead + CT	destroyed + 3 dead + CT	broken + CT	destroyed + dead	destroyed +1 dead +CT	destroyed + 3 dead +CT	
7	-	destroyed + dead	destroyed + 2 dead + CT	destroyed + 6 dead + CT	destroyed + 3 dead + CT	destroyed + dead	broken + 1 dead + CT	destroyed + dead	destroyed +1 dead +CT	destroyed + 4 dead +CT	
8	-	exploded + dead	destroyed + 3 dead + CT	destroyed + dead	destroyed + dead	destroyed + dead	broken + 1 dead + CT	exploded + dead	destroyed + 2 dead +CT	destroyed + 4 dead +CT	
9	-	exploded + dead	destroyed + dead	exploded + dead	exploded + dead	exploded + dead	broken + 1 dead + CT	exploded + dead	destroyed + 2 dead +CT	destroyed + 5 dead +CT	
10	-	exploded + dead	exploded + dead	exploded + dead	exploded + dead	exploded + dead	broken + 1 dead + CT	exploded + dead	destroyed + 2 dead +CT	exploded + dead	
Fragmer	Full shot = model directly hit by projectiles, hand bombs, explosive devices; all human casualties of the target unit due to fragments are already included. ragments = model hit just by blast fragments of HE or AA ammunitions. If courage test (CT) fails unit must retreat back as soon as possible, crew abandon immobilized vehicles.										

	EFFECTS AGAINST BUILDINGS										
	D10 Die		TYPE OF BUILDING								
Heavy	weapon c	aliber	Wooden-	Brick-	Palace,	Bunker,					
+120 mm	+70 mm	+30 mm	house, Sand-bags	house, Trench	Fort	Casemate, Pill-box					
1 - 4	1 - 5	1-6	blast radius	blast radius	blast radius	blast radius					
5	6 - 7	7 - 8	blast radius	blast radius	blast radius	floor					
6	8	10	floor	blast radius	blast radius	floor					
7	9	-	on fire+CT	floor	floor	floor					
8	10	-	destroyed	on fire+CT	floor	floor					
9	-	-	destroyed	destroyed	on fire+CT	on fire+CT					
10	-	-	destroyed	destroyed	destroyed	destroyed					

Blast radius = all miniatures which have base in the blast radius are eliminated. Floor = all miniatures located on floor are eliminated. On fire = the same effects of "Floor", but building is on fire and all units must exit.

Destroyed = building collapses down and all units inside it are eliminated.

INCENDIARY WEAPONS EFFECTS											
D10 Die	TYPE OF TARGET										
Flame-thrower Molotov-bomb	Tank, SPG, Armored-car	Truck, tractor, Half-track	Jeep, Car, Bike	*Soldier							
1 - 2	-	extinguished+SF	extinguished+SF	extinguished+SF							
3 - 4	extinguished+SF	2 dead + CT	2 dead + CT	dead /MP							
5	extinguished+SF	4 dead + CT	on fire+save+CT	dead /P							
6	1 dead + CT	on fire+save+CT	on fire +dead	dead							
7	immobilized	on fire +dead	on fire +dead	dead							
8	on fire+save+CT	exploded	exploded	dead							
9	on fire +dead	exploded	exploded	dead							
10	exploded	exploded	exploded	dead							
* Roll a die for e	each miniature with	base within temp	late or radius of fla	ames.							

Flames can hit units located inside of artificial element only thru open doors, windows or openings in the walls.

TESTS										
TEST NAME	ABBREV.	PURPOSE	DESCRIPTION	SUCCESS CONDITION						
Readiness	RT	To determine the maneuver sequence of the squads of a platoon.	Each player rolls a D6	D6 + CS + CR > D6 + CS + CR of opponent						
Direct fire request	DFR	To report position of enemy unit to others units in field	Player rolls a D6 and a D10	D6 + CS + CR >= D10						
Indirect fire request			Player rolls a D6 and a D12	D6 + CS + CR >= D12						
Can't fire	CF	To determine if unit hit by heavy weapons shells loses fire turn	Player rolls a D6 and a D10	D6 + CS + CR >= D10						
Courage	СТ	To avoid that team falls in panic / To perform brave actions	Player rolls a D6 and a D8	D6 + CS + CR >= D8						
Precision	PT	To hit the target by using hand bombs / center open top vehicles	Player rolls a D6 and a D10/D12	D6 + CS >= D10/ D12						
Dodge	DT	To avoid that unit is rammed/ To avoid mines, barbed wire	Player rolls a D6 and a D10	D6 + CS >= D10						
Melee combat	MC	To eliminate an opposing miniature during an assault	Each player rolls a D6	D6 + CS > D6 + CS of opponent						

LIGHT WEAPON FIRE against unarmored vehicles (D8 long, D10 effective, D12 short range)																
DIE -	+ CS	NUMBER OF SHOTS FIRED AND CASUALTIES														
Stationary target	Moving target	1-3	4-7	8-12	13-18	19-25	26-33	34-42	43-52	53-63	64-75	>75				
1 - 2	1 - 2	-	-	-	-	1 dead	1 dead	2 dead	2 dead	brief move +3 dead +CT	slow move +3 dead +CT	immobilized +4 dead +CT				
3	3 - 4	-	-	-	1 dead	1 dead	2 dead	2 dead	brief move +3 dead +CT	slow move +3 dead +CT	immobilized +4 dead +CT					
4	5 - 6	-	-	-	1 dead	1 dead	2 dead	brief move +3 dead +CT	slow move +3 dead +CT	immobilized +4 dead +CT	immobilized +4 dead +CT	destroyed +5 dead +CT				
5	7	-	-	1 dead	1 dead	2 dead	brief move +3 dead +CT	slow move +3 dead +CT	immobilized +4 dead +CT	immobilized +4 dead +CT	destroyed +5 dead +CT	destroyed +5 dead +CT				
6	8	-	-	1 dead	2 dead	brief move +2 dead +CT	slow move +3 dead +CT	immobilized +4 dead +CT	immobilized +4 dead +CT	destroyed +5 dead +CT	destroyed +5 dead +CT	destroyed +6 dead +CT				
7	9	-	1 dead	1 dead	brief move +2 dead +CT	slow move +3 dead +CT	immobilized +4 dead +CT	immobilized +4 dead +CT	destroyed +5 dead +CT	destroyed +5 dead +CT	destroyed +6 dead +CT	destroyed +6 dead +CT				
8	10	-	1 dead	2 dead	brief move +2 dead +CT	slow move +3 dead +CT	immobilized +4 dead +CT	destroyed +5 dead +CT	destroyed +5 dead +CT	destroyed +6 dead +CT	destroyed +6 dead +CT	destroyed +7 dead +CT				
9	11	1 dead	1 dead	2 dead	slow move +3 dead +CT	immobilized +4 dead +CT	destroyed +5 dead + CT	destroyed +5 dead +CT	destroyed +6 dead +CT	destroyed +6 dead +CT	exploded + all dead	exploded + all dead				
10	12	1 dead	2 dead	brief move +3 dead +CT	immobilized +3dead +CT	immobilized +5 dead +CT	destroyed +5 dead + CT	destroyed +6 dead +CT	exploded + all dead	exploded + all dead	exploded + all dead	exploded + all dead				
+	+	1 dead	2 dead	slow move +3 dead +CT	immobilized +4dead +CT	destroyed +5 dead +CT	exploded + all dead									

Damages and casualties are determined by just one die roll for all weapons that fire at the same enemy unit by using the same range effectiveness. Casualties cannot exceed number of soldiers transported by vehicle, crew included. If courage test (CT) fails unit must retreat back as soon as possible, crew abandon immobilized vehicles.

DIE +	LIGHT WEAPON FIRE against infantry/artillery (D8 long, D10 affective, D12 short range)           DIE + CS         NUMBER OF SHOTS FIRED AND CASUALTIES																																	
Target	status		1-3			4-7			8-12	2		13-17	7	18-		18-23			24-30			31-39			0	;	51-62	2	6	63-7	5			
station_	moving	!	S	Μ	!	! S M ! S M		!	S	Μ	! S M			!	! S M		! S M		! S M			! S M			! S M			! S		Μ				
ary				Н			Н			Н			Н			Н			Н			Н			Н			Н			Н			Н
1-2	1-3	-	-	1	-	-	-	-	-	I	1	-	-	1	1	-	2	1	-	2	1	1	3	2	-	3	2	1	4	3	1	4	3	2
3	4 - 5	-	-	-	-	-	-	-	-	-	1	1	-	2	1	-	2	1	-	3	2	-	3	2	1	4	3	1	4	3	2	5	4	2
4	6	-	-	-	-	-	-	1	-	-	2	1	-	2	1	-	2	2	-	3	2	1	4	2	1	4	3	1	5	4	2	5	4	2
5	7	-	-	-	-	-	-	1	1	-	2	1	-	3	1	-	3	2	1	4	2	1	4	3	1	5	3	2	5	4	2	6	4	3
6	8	-	-	-	1	-	-	1	1	-	2	1	-	3	2	1	3	2	1	4	2	1	5	3	2	5	4	2	6	4	3	7	5	3
7	9	-	-	-	1	1	-	2	1	-	3	2	1	3	2	1	4	2	1	5	3	1	5	3	2	6	4	2	7	5	3	8	5	3
8	10	1	-	-	1	1	-	2	1	1	3	2	1	4	2	1	4	3	1	5	3	2	6	4	2	7	4	3	7	5	3	9	6	4
9	11	1	1	-	2	1	1	2	2	1	3	2	1	4	2	1	5	3	2	6	3	2	6	4	3	7	5	3	8	6	4	10	6	4
10	12	1	1	-	2	1	1	3	2	1	4	2	1	4	3	2	5	3	2	6	4	2	7	4	3	8	5	3	9	6	4	11	7	4
+	+	1	1	1	2	2	1	3	2	1	4	3	2	5	3	2	6	4	2	7	4	3	8	5	3	9	6	4	10	7	4	12	8	5

! = no shelter; S = soft shelter; MH = medium or hard shelter. Infantry teams reduced to 50% or less, must perform a CT (courage test) every time it suffers new casualties