Introduction
The Tactical Combat Series (TCS) contains realistic, playable games of specific tactical actions during and after World War II. The system’s emphasis is on command and combined arms effects. Version 4.01 introduces a number of minor changes from Version 4.0 in order to clean up a few little details to smooth out the 4.0 experience. Nothing of substance has been modified.

The TCS Version 4.01 rules presented here are backwards compatible and can be used with all previous TCS games. Check the Multi-Man Publishing web site for updates to game rules as well as newer morale charts to use with Version 4.01 rules.

1.0 General Game Concepts

1.1 The Map
The map included in this game depicts the area in which the battle was fought.

1.1a Hex Numbering System. Every hex on the game map is identified by a hex number (e.g. 29.17). The digits before the decimal point (29.xx) indicate the vertical hex column, reading along the map from left to right. The digits after the decimal point (xx.17) identify the exact hex in the column, reading from bottom to top. To reduce map clutter, hex numbers are printed only on every fifth row of hexes (xx.05, xx.10, xx.15). To find hex 29.17, for example, follow the xx.15 row until you find the 29.xx column, then count up two hexes to 29.17. If the game uses more than one map, any reference to a hex number will include the appropriate map letter (e.g. B29.17).

1.1b Map Edge Hexes. Only hexes with at least one-half of the hex showing are playable.

1.1c Off-Map Movement and Fires. Unless specifically allowed in a given game, units cannot conduct any sort of off-map movement. Destroy units forced off the map. Artillery Barrage or Smoke markers which scatter off the game map have no effect.

1.2 The Rules
Every TCS game contains separate series and game rulebooks. The series rulebook contains the rules generally applicable to all the games in the series. The game rulebook gives the details needed for a specific game, including any special rules, scenarios, and set up information.

1.2a Organization. Section and case numbers outline the rules. Each major grouping of the rules is a section; a paragraph within a rules section is a case. The number 4.2 would, for example, refer to section 4, case 2. A specific case can contain a number of related statements. Statements within a case are numbered as in 4.2a, 4.2b, etc.

1.2b Repetition. Once stated, a rule is repeated only if needed for clarification.

1.3 Scale
Each turn is 20 minutes (one hour at night) and each hex 125 yards with a 20 meter contour interval unless otherwise given in the game rulebook. Some games have a 10 meter contour interval; others use a 125m/hex scale. The personnel units are generally platoons. Weapons units (AT Guns, Infantry Guns) usually represent one gun. Mortar and MG units generally represent 2–3 weapons in a section. Artillery counters can represent either one gun or a battery of 2–6 guns, and vehicle units (tanks and other armored vehicles) can represent either single vehicles or sections/platoons of 2–6 vehicles; the number of vehicles is indicated on the counter. Carrier counters (trucks, half-tracks) represent sufficient vehicles, usually 2–3, to carry a full Infantry platoon or tow two larger guns or cannons. Many Carriers are not represented as counters but...
are integrated into the Weapons units they transport.

1.4 Standard Rounding Rule
Round .00 to .49 down; round .50 to .99 up.

When rounding must occur, do so only after making all modifications (before final application). In no case should you round a number before another manipulation.

1.5 Fog of War
To increase realism, a player should not be aware of the enemy’s Op Sheets, Battalion Morale values, Task Organizations, artillery availability or ammunition, Rally Points, nor any future plans that might be converted into Op Sheets. Examining enemy stacks is allowed.

1.6 Dice Rolls
Most dice rolls in the TCS are sequential (in the 11..66 format). Roll two dice, one red and one white. Read the red die as the tens digit and the white die as the ones. For instance, a roll of “3” on the red die and “4” on the white one would be “34”.

2.0 Sequence of Play
The sequence of play for one game turn follows below: it can also be found in the accompanying tables. To determine Initiative for the Aircraft & Artillery Phase and the Action Phase, each player rolls one die. The player with the higher roll has the Initiative and chooses to be first or second for the phase in question. Re-roll any ties.

Sequence of Play
Command Phase
Both players do the following:
2) Accrue Weighted Turns [6.9d].
3) Make any implementation checks [6.9f].
4) Make any Reserve or Alternate Die Roll Check attempts [6.14d].
5) Add units to existing Op Sheets [6.13].
6) Create new Op Sheets [6.8].

On full hour turns (turns ending in -00), add the following:
7) Roll to reduce Battalion and Vehicle Morale if applicable [17.1d, 17.8d, 26.1d].
8) Roll for Weather if necessary [7.0a].

Aircraft & Artillery Phase
Roll to determine which player fires first [2.0]. The player who wins the roll chooses to be first or second for the duration of the Aircraft & Artillery Phase.

Each player conducts the following six subphases separately, in Initiative order:
1) Determine and execute Aircraft Sorties, rolling on the game-specific table if necessary [25.0]; execute any Overwatch Fires generated by AA fire or SYRs [18.10].
2) Execute any Pre-Plotted Barrages as per special rules in certain TCS games.
3) Remove own Continuous Fire Missions and place new Artillery Missions [18.0]. Illum works instantly and can be used to observe other Missions during mission adjustment [subphase 4].
4) Adjust missions by rolling on the Artillery Adjustment Table.
5) Execute all new Missions; non-phasing player executes any Overwatch Fires generated by on-board Artillery Missions or SYRs [18.10].
6) Remove all Barrage markers that are not Continuous Fires.

Action Phases
Roll to determine who conducts his phase first [2.0]. Each player has his own separate Action Phase. Conduct them one right after the other, following the sequence described below.
1) Remove all Fired markers from the phasing player’s units.
2) Remove Mortar and Infantry Gun Smoke and Illum markers placed by the player during the previous turn.
3) Place Reinforcements on the appropriate map edge [27.2].
4) The phasing player may conduct Mode Change [4.1], Movement [20.0], Suppressive Fire Actions [13.0], Point Fire Actions [14.0], Assaults [22.0], Overruns [23.0], Vehicle Impulses [20.2], Minefield Breaches [21.3], and Minefield Crossings [21.2]. In either Action Phase both players can conduct appropriate Overwatch Fires [15.0].
5) The phasing player may remove Suppressed and reduce Paralyzed markers if desired. The non-phasing player may conduct Overwatch Fires at stacks recovering from being Suppressed or Paralyzed [17.7]. Resolve any overstacking [5.0].

Clean Up Phase [26.2c, 19.2]
Both players work together to do the following (ORDER is important):
1) Remove all Artillery Illum markers.
2) Remove all Level 1 Smoke markers.
3) Flip all Level 2 Smoke markers to Level 1 Smoke markers.

3.0 Units
The game’s playing pieces—the counters—represent combat units, vehicles, and informational markers. The word “unit” denotes any counter that represents troops or vehicles—as distinct from informational markers. Each unit belongs to one of the following categories: Infantry, Weapons, Vehicle, or Carrier.

3.1 Unit Types
3.1a Infantry Units. The Infantry unit category includes not only Infantry platoons, but also engineers, military police, and other troop units. Infantry units are Area targets and Low-Trajectory Area FIRers (A-firers). They add their steps to their Fire strength at range zero (in the same hex) and one-half their steps at range one. They have Morale and make Morale Checks. Only Infantry units can breach minefields or make AT Rolls. All infantry units are 5-step platoons unless otherwise indicated in the game rules.

3.1b Weapons Units. These units represent heavier weapons systems that require a crew of three or more. Mortar and MG units have two steps and AT Guns, AA Guns, and Infantry Guns have one step. On-map Artillery may have 1-6 steps. Weapons units have Morale and make Morale Checks. Weapons units cannot conduct minefield breaches or make AT Rolls.

3.1c Vehicle Units. A Vehicle unit or step represents an individual combat vehicle, such as a tank, assault gun, tank destroyer, armored car, or self-propelled artillery, not specifically designed to carry passengers. Vehicle units are generally Point targets armed with Point Fire weapons and are affected by Vehicle Morale. Vehicle units are capable of Overrun combat and can use Vehicle Impulses. They can carry other units using special rules.

3.1d Carrier Units. Carrier units represent trucks, half-tracks, and other vehicles whose purpose is the transportation of men and equipment. They function like Vehicles, except that they use the Carrier rules to transport other units and tow weapons. They cannot use Vehicle Impulses. Like Vehicle units, Carrier units are capable of Overrun combat. Carrier units have two steps, have no Morale rating on their counter and are not subject to Vehicle Morale or Battalion Morale, although Carrier units lost in com-
bat do count towards Battalion Morale.

3.1 Coding. Counters are coded for firing class and type. See the TCS Unit Explanation table. For pre-4.0TCS games, a box around the range number indicates an A-firer; a circle around the range number indicates an A-firer capable of indirect fire (Mortar); a white range number blocked in red or black indicates a P-firer’s nominal range. You may, of course, also consult the rulebook that came with the game.

3.2 Target and Firer Types

There are two classifications for each unit’s firer and target characteristics.

3.2a The two firer types are Area-firer (A-firer) and Point-firer (P-firer). The target types are Area targets, Point targets, and a combination of the two called Both-type targets (B-targets).

3.2b Area Fire weapons spray an area with directed, but not necessarily aimed, fire. A-firers can attack Area targets or B-targets but cannot attack Point targets. In addition, Infantry units cannot attack B-1 targets (i.e. B-targets with a strength of one representing lightly armored vehicles) with Area Fires. A-firers are divided into two categories: Low-Trajectory and High-Trajectory [11.2].

3.2c Point Fire weapons fire penetrating rounds at a specific target (such as a vehicle or large weapon) and require a direct hit to damage the target. P-firers can also conduct Area Fires using their printed Fire strength (AT Guns use 1/2 their Point Fire strength). P-firers can attack B-targets either with Area Fire or Point Fire as desired by the owning player (that is, they can spray it with MG and/or HE fire or fire armor piercing rounds). Note that in this case the firing player must select the fire resolution method (Area or Point) before resolving the fire.

3.2d Area targets are formations of men spread throughout the hex. They are more difficult to spot than Vehicles and can suffer negative combat modifiers for being packed too densely.

3.2e Point targets are armored vehicles whose defense strength corresponds to their armor rating (the higher the better).

3.2f B-targets can be attacked by both Area Fire and Point Fire. B-1 targets cannot be affected by Area Fire from Infantry units.

3.2g For pre-4.0 TCS games, the abbreviations on the unit’s back are: “A” for Area, “P” for Point, and “B” for Both. A “-” in the firer type’s place indicates a unit without a weapon or with a special classification.

3.3 Multiple-Step Counters

Some TCS games use single counters to represent multiple guns or vehicles. Indicate the loss of individual vehicles or guns with Step Loss markers.

3.4 Counters

Fire Strength: White = Area-firer, yellow = Point-firer.

Range: Black = Low-trajectory Firer, white = High-trajectory Firer.

Defense Strength: White = Area target (morale value), yellow = Point target, black = B-target.

Movement: White = Foot, black = Wheeled, yellow = Track.

ID Band: color shows battalion, gray = not attached to particular battalion [17.1c].

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**Design Note:** A P-1 target is a fairly light tank which cannot be penetrated by heavy MG fire. A P-6 target is a late WWII heavy tank such as the Tiger II.
4.0 Modes

All units in the game can be in one of two Modes: Fire Mode or Move Mode. Mode determines a unit’s capabilities. The side of a counter facing up shows that unit’s Mode.

4.1 Mode Change

A player can change unit Modes during his Action Phase. A unit may also be allowed or required to change Mode, at no Movement Point (MP) cost, when it conducts a Save Yourself Retreat (SYR), suffers a Suppressed or Paralyzed Morale result, or during Assault combat.

4.1a Infantry and Weapons units using Foot Movement can change from Move Mode to Fire Mode at no Movement Point (MP) cost. They must spend one-third of their Movement Allowance to change from Fire Mode to Move Mode. Tow-only units have an assumed MA of two MPs for this purpose. Units with Integrated Carriers must spend one-half of their MA to change Mode (both Fire and Move).

4.1b Vehicle and Carrier units must spend one-third of their MA to change from Move Mode to Fire Mode. Changing from Fire Mode to Move Mode does not cost any MPs.

4.1c Suppressed, Paralyzed, and Fired-marked units can only change Mode to conduct a Save Yourself Retreat (SYR) [17.4].

4.2 Mode Effects

Units in Fire Mode can fire Suppressive Fire Actions (SFAs), Point Fire Actions (PFAs), or Overwatch (OW) and breach Minefields. Units in Move Mode can move, initiate Assault and Overrun combat, mount or dismount Carriers, and breach Minefields. In Assault and Overrun combat, Mode has no effect on a unit’s ability to fire. EXCEPTION: Weapons units in Move Mode may not control their units.

A unit must be in Fire Mode to observe Artillery Missions. A unit can observe for Mortar fires in either Move Mode or Fire Mode.

5.0 Stacking

Stacking is the placing of more than one unit in a single hex. Enforce stacking limits at the end of each Action Phase, at the end of each Vehicle Impulse, and during the execution of Assault and Overrun combats (where both sides count stacking independently of the other). The owning player destroys the excess steps in any overstacked hexes.

5.1 Stacking Limits

The stacking limit for each hex is 30 Infantry/Weapons steps plus six Vehicle/Carrier steps. Units mounted inside a Carrier do not count towards the stacking limit. Units being towed do count towards stacking.

5.2 Handling Rules

5.2a Stacking and unstacking cost no Movement Points. Stacks are declared when units start moving together.

5.2b Friendly and enemy units can occupy a hex together only during Assault combat and Overrun combat. Units cannot be stacked with another enemy unit unless otherwise authorized in the rules. Destroy units forced to enter an enemy-occupied hex for reasons other than Assault or Overrun combat.

5.2c Both sides can examine the contents of any enemy stack at any time.

6.0 Command

The command rules impose realistic limits on the players’ ability to rapidly change missions. Create Op Sheets to define your objectives. The units on an Op Sheet must execute the mission on that sheet until they accomplish the mission, they are reassigned, or the player cancels the Op Sheet.

6.1 Playing Without Command

You can easily play without the formal command system. Skip all the rules in section 6. Players can choose between realism and simplicity to suit their tastes. The game design works with or without the Command Rules, although the Command Rules are one of the main driving elements of TCS games.

6.2 Unit Actions Unaffected by Command

Op Sheets show the functions of higher level formations, such as battalions, brigades, and regiments. Much of what unit counters do while part of a higher plan need not be controlled by Op Sheets. These actions include, but are not limited to, fire combat, exact unit movements, Assault and Overrun combat, Minefield operations, and artillery fires. Play proceeds along Op Sheet frameworks, but Op Sheets do not control precise unit actions, unlike games featuring plotted movement.

6.3 Unassigned Units

Units not listed on an implemented Op Sheet’s Task Organization have no orders and are Unassigned. Only when a new Op Sheet which contains them implements do such units become Assigned.

6.3a Units are never Dug In (unless allowed by game rules), cannot initiate Assault or Overrun combat, and cannot fire as part of SFAs or PFAs. They may fire Overwatch Fires normally. Unassigned On-Map Artillery may fire SFAs and Artillery Missions normally.

6.3b Infantry and Weapons units suffer a +2 Morale modifier when Unassigned. Vehicle formations suffer no additional morale penalties when Unassigned.

6.3c Unassigned units that do not begin their Action Phase within five hexes of their Rally Point may not voluntarily end any movement or Voluntary SYR closer to enemy units that they can spot at any point during their move or retreat. In addition, they may not end movement further from their Rally Point unless they are executing Preliminary Instructions [6.14a].

6.4 Higher Commander’s Intent

The higher commander’s intent is a battlefield vision that your commander wants you to create, and is stated in the game rules. You can freely use your units to make his intent come true. Your success on the game map will be judged by your success in achieving that intent as it is reflected in the Victory Conditions.

6.5 Op Sheets

Each Op Sheet contains all the instructions for its Task Organization. An Op Sheet can be implemented or non-implemented. An implemented Op Sheet has passed its Command Prep [6.9] and its units must now follow its instructions. Non-implemented Op Sheets are still in their Command Prep and cannot control their units.

6.5a The Graphic: The graphic is a reduced version of the game map on which players draw up their operations. Other than the use of alternates, reserves, and the addition of new units to the Task Organization, make no changes to the graphic after creating it. We recommend the use of standard US Army (NATO) symbols. A list of useful symbols is on page 4 of the TCS charts. Players can use custom-designed symbols as long as both players agree to their meaning. The graphic alone should
provide much of the information needed for another person to understand the Op Sheet.

6.5b Written Notes. The written notes give the information needed to cement together the graphic’s logic and order. Written notes should be as short as possible. They should explain the execution details for the graphic so that another person can fully understand the Op Sheet.

6.5c Failure Instructions. Every Op Sheet must give instructions about what to do if it fails. The determination of failure is up to the owning player (or as a result of failing Vehicle Morale, see 17.8). These instructions must include Rally Points [6.12] to which the units must withdraw to await further orders. Failure Instructions can only entail a rapid movement to the Rally Point, avoiding enemy contact. Any part of a Task Organization that executes Failure Instructions becomes Unassigned. Failure Instructions become valid once the Op Sheet implements or units on the Op Sheet begin executing Preliminary Instructions.

6.6 Op Sheet Types
Each Op Sheet can entail a number of actions such as movements and attacks. While a sheet can contain any number of sub-mission types, a given set of units on an Op Sheet can only have one particular mission. In other words, a single Op Sheet could never order a company to attack a hill and then defend it. That would take two separate Op Sheets. For example, a player has an implemented Attack Op Sheet and simultaneously draws up a Prepared Defense Op Sheet. The defense accrues time while the attack is underway, but the player does not roll to implement it until the objective is secured.

Multiple sub-missions here refers to having a single Op Sheet which deals with a large number of units, say a regiment, in which one battalion is doing one job, and another is doing something else—no single group of units (such as a battalion) is trying to accomplish two successive tasks on the same Op Sheet.

It is OK to assign one group the task of attacking along a route to and over one hill and onto another—that would be considered one attack. It is also OK to generate a defense in zones which allows the player’s units to defend one phase line after another as the situation develops. It is important to avoid being too “tight” in terms of the mission allowances for an Op Sheet—provided you are not setting up a single order to attack an objective and then defend it with the same group of units, you are probably OK. It is possible to have one group of units on an Op Sheet attack an objective and to have another group on the same Op Sheet with Hasty Defense orders ready to defend the objective when taken. Naturally the units designated to defend cannot participate in the attack.

Categorize each Op Sheet according to the highest ranking operation on it in this order:

1) Prepared Defense
2) Attack
3) Hasty Defense
4) Move

6.6a Prepared Defense. Defense of an area that allows the troops to dig in and may include the laying of minefields.

6.6b Attack. Offensive operations towards an objective not currently held—even to occupy terrain not garrisoned by the enemy.

6.6c Hasty Defense. Quick defense that does not allow enough time to dig in or lay mines.

6.6d Move. When drawn up, Move Op Sheets may not specify movement through areas containing enemy units. Units on implemented Move Op Sheets are treated as Unassigned [6.3] though they do not need to remain within 5 hexes of their Rally Point.
6.6e Defensive Op Sheets when drawn may only specify locations that are held or ‘behind friendly lines.’ Players will need to use common sense here. Movement to these locations is allowed. Moving units are treated as Unassigned but do not need to remain within 5 hexes of their Rally Point.

6.7 Task Organization
List the units making up an Op Sheet in its Task Organization. The Task Organization must provide a complete unit listing for that Op Sheet. Units not so listed cannot operate as part of that Op Sheet. The player can assign his units, even those off map, to any Op Sheet he devises.

6.7a List all units that are to conduct an Op Sheet’s operation on that sheet’s Task Organization. Players can divide their units as they see fit. If a Task Organization contains the “304 PG Rgt”, then that Op Sheet contains all the 304th Panzergrenadier Regiment’s elements—including those off map. Never leave any doubt about which units are in a Task Organization.

6.7b Off-Map Artillery is not assigned to Op Sheets unless specified in the game-specific rules.

6.7c Limitation on Op Sheet Assignments. Never list a unit on more than two Op Sheets—one implemented and one unimplemented or two unimplemented. A unit also cannot be on two unimplemented Op Sheets of the same type (Hasty Defense and Prepared Defense are not the same type). Being listed on an Op Sheet that has been declared a success [6.11a] does not count towards this limit.

6.8 Op Sheet Creation
Players can create Op Sheets both before the game and during any Command Phase. When drawn, Op Sheets are unimplemented [except for those drawn before the game, see 27.1f]. When the player successfully rolls on the Command Prep Table, the Op Sheet is implemented. A player can draw up any number of Op Sheets in a turn. Complete all Op Sheet parts when first creating it. A player can assign any of his units to any Op Sheet [subject to 6.7]. Forces placed on a new Op Sheet while under an old implemented one remain under the old sheet’s control until the new one implements.

6.9 Command Prep
Each Op Sheet begins its Command Prep when the player creates it. The Command Prep ends when the player implements the Op Sheet using the Command Prep Table.

6.9a The game rules give each side a Command Prep Rating. This rating reflects the ability of each side’s command system’s to conduct operations quickly, or—more specifically—to change plans rapidly.
6.9b **Op Sheet Size.** Op Sheet Size modifies the player’s Command Prep Rating for use on the Command Prep Table. The size equals the number of Elements in the Task Organization. An Element is any number of units of any type from a single formation that is subject to either Battalion or Vehicle Morale. Units not part of a formation subject to Battalion or Vehicle Morale, such as regimental AT guns, Weapons companies, Weapons battalions, and scout platoons, do not count. Three companies, each from a different formation, would have a size of three, while three companies from the same battalion would have a size of one, which becomes a zero with the staff modifier [6.9c]. An infantry battalion, two tank platoons from a single company, and an AT gun from a regimental weapons section would have a size of two. After 6.9c, this becomes a size of one.

**6.9c Staff Modifier.** Any Op Sheet including at least one whole battalion (all parts not eliminated) subtracts one from the Op Sheet size.

For example, a full infantry battalion would normally get a size of 1, but since it has a staff attached the size is zero.

6.9d **Weighted Turns.** Each turn, an unimplemented Op Sheet accrues weighted turns representing the value of the time spent preparing. Before checking any Op Sheets for implementation in each Command Phase, add a number of marks to each sheet’s tally. The number of marks made each turn depends on the condition of the units in each Op Sheet’s Task Organization. Use the worst condition applicable:

- All units are Unassigned: 3
- Any unit Assigned or executing Preliminary Instructions or a Night turn [26.0]: 2
- Any unit fired or fired upon in any way during the previous turn: 1

Firing involves any Area Fire, Point Fire, or AT Roll. Observing for artillery or mortars does not count as firing.

6.9e **Vehicle Op Sheets.** An Attack, Hasty Defense or Move Op Sheet consisting only of Vehicles (not Carriers!) accrues weighted turns at triple the normal rate. For example, an Op Sheet with a battalion of tanks that is Unassigned and out of combat accrues nine weighted turns per turn.

**Design Note:** Vehicle Op Sheets implement much more quickly because of the higher operational tempo of armor units. Communication via radio or other signals was much faster, and armor units were accustomed to operating at a much faster pace than infantry. Players will find they themselves tempted to maneuver with their armor independently of their slow infantry comrades—and narratives of WWII combat are replete with just such stories! However, digging in vehicles still takes a lot of time.

6.9f **Command Prep Table.** During each Command Phase, the player can attempt to implement any of his unimplemented Op Sheets. The player is never forced to try to implement an Op Sheet.

Use the Command Prep Table to implement Op Sheets. Add the total weighted turns accrued so far and follow the row for the Op Sheet’s type across to the furthest right column that does not exceed that number. Add your Command Prep Rating to the Op Sheet’s Size [6.9b & 6.9c]. Find the row containing the modified Command Prep Rating and cross index it with the column found earlier to locate the table’s value. Roll two dice (11...66). If the dice roll is greater than or equal to the table’s value, implement the Op Sheet. Otherwise, the attempt fails, and you can try again next turn. Roll separately for each Op Sheet.

**Example:** A player has an unimplemented Attack Op Sheet with a full regiment on it awaiting implementation. So far, it has accrued 27 weighted turns. It has a size of two (three battalions less the staff modifier). The player has a Command Prep Rating of three. Cross indexing the modified Command Prep Rating of five, the player is successful and implements the Op Sheet.
6.10 Implementation

Upon a successful roll on the Command Prep Table, the Op Sheet implements. The player must follow each implemented Op Sheet until he removes that sheet by whatever means: mission completion, failure, or unit reassignment.

6.10a Units listed on a newly implemented Op Sheet are immediately removed from any previously implemented Op Sheet that they may already be on.

6.10b Players are free to use their units as they see fit in following Op Sheet instructions, but they must follow those instructions. They are free to vary their operational tempo for any reason, provided they do not violate Op Sheet instructions.

6.11 Mission Completion

At some point the player may find that an Op Sheet has served its purpose: Either it has succeeded or failed.

6.11a Mission Success. During the Command Phase, a player can declare an Op Sheet to have succeeded. Once a mission succeeds, indicate this on the Op Sheet in question. All units on the Op Sheet become Unassigned [6.3]. However, they still retain their Failure Instructions and Rally Point until they are listed on a new implemented Op Sheet or begin executing Preliminary Instructions. Scratch such units from the successful Op Sheet and discard that Op Sheet when the units that were previously listed on it are now executing Preliminary Instructions or are listed on another implemented Op Sheet.

6.11b Mission Failure. Every Op Sheet requires instructions about what to do if it fails. The decision to call off a mission rests solely with the player, with the exception of Vehicle Morale failure [17.8]. The player can declare Mission Failure in any friendly Action Phase. Units on a failed Op Sheet are now Unassigned and must execute their Failure Instructions and move towards their Rally Point [6.12].

6.11c Units executing Failure Instructions must move towards their Rally Point and avoid enemy contact [6.3]. It is possible they might not be able to move at all due to the presence of enemy units, but be pinned in the middle of enemy territory as Unassigned units—and that’s bad.

6.11d It is possible for only a portion of a Task Organization to fail. An example would be a battalion defense where one company gets hammered, while the others are OK. Cross out the failed units from the Op Sheet and allow them to follow the Failure Instructions independently.

6.12 Rally Points

Rally Points are locations where Unassigned units gather to reorganize. There are no markers for Rally Points—their location and composition are noted on Op Sheets.

6.12a When drawing up Op Sheets, all units on the Op Sheet must be assigned a Rally Point as part of the Failure Instructions. This Rally Point becomes valid once Preliminary Instructions are initiated or the Op Sheet implements. There may be multiple Rally Points on one Op Sheet, but only one Rally Point per battalion.

6.12b Units on an Op Sheet that has succeeded [6.11a] retain their Rally Point until they have been assigned a new Rally Point through a newly implemented Op Sheet or they begin executing Preliminary Instructions on a new Op Sheet not yet implemented.

6.12c Rally Points are designed to be safe locations away from enemy units. Rally Points should not be assigned so as to cause units to advance toward the enemy while unassigned. Remember that failure instructions should be very simple, so don’t try to get too cute with complicated Rally Point assignments.

6.13 Special Handling Issues

6.13a If a new Op Sheet implements or begins executing Preliminary Instructions and this new Op Sheet lists units that are currently listed on another implemented Op Sheet, delete the reassigned units from the older Op Sheet. In addition, a player may voluntarily declare a unit or units on an implemented Op Sheet to have succeeded or failed. Such units become Unassigned and, if they failed, they must execute their Failure Instructions.

6.13b A player can scratch units off an unimplemented Op Sheet during any Command Phase. Do not adjust the Op Sheet’s Size modifier.

6.13c To add units to an existing implemented Op Sheet, draw their part on the graphic and add the written notes. Add them to the Task Organization. Those units (only) must go through the implementation process using the staff modifier and mission type from the gaining sheet, if any, and the size of the adding force only. Roll against the column with the most difficult mission type if multiple missions exist on the same Op Sheet. These units cannot function with the Op Sheet they are being added to until they make their implementation roll or begin implementing Preliminary Instructions.

Note: Only Vehicle units may be added to an existing Vehicle Op Sheet [6.9e].

6.13d Adding units to an unimplemented Op Sheet causes a reduction in accumulated weighted turns in proportion to the size of the units being added. Add these new units to the Op Sheet, drawing in their part on the graphic and adding written notes. Calculate the new Op Sheet Size and multiply the currently accumulated weighted turns by the ratio of the old size divided by the new size without the staff modifier (rounding normally). For instance, an unimplemented Op Sheet has a size of one (two battalions minus the staff modifier) and 27 weighted turns accumulated. The owning player decides to add another battalion (size one). The new Op Sheet has a size of two. The ratio of old size divided by the new size is 2/3 (two battalions divided by three battalions). Thus the number of weighted turns is multiplied by 2/3, yielding 18. The new Op Sheet Size is two (three battalions less the staff modifier).

6.13e Reinforcements. Handle these according to 6.13c, 6.13d, or write up a new Op Sheet for them. It is also perfectly acceptable to write up Op Sheets for reinforcements ahead of their arrival. Op Sheets for reinforcements written before the game begins are automatically implemented. Reinforcements may not enter the map until they are on an implemented Op Sheet or executing Preliminary Instructions.

6.14 Special Instructions

The following are different in some respects from the foregoing and supersede the earlier rules where conflict exists.
6.14a Preliminary Instructions. Players may use Preliminary Instructions to get units to an assembly area before their Op Sheet actually implements. When drawing up a new Op Sheet, the player can list any Preliminary Instructions he wants. Units executing Preliminary Instructions are Unassigned, but use the Failure Instructions of the new Op Sheet and may move away from their Rally Point.

When a player rolls for implementation of the Op Sheet on the Command Prep Table, he declares whether A) he is attempting to implement the whole Op Sheet or B) only the Preliminary Instructions. Units on the Op Sheet may execute their Preliminary Instructions in either case if the die roll succeeds when checked against the Move column.

Example: Player A (Command Prep 3) has a battalion of Shermans just itching to attack. They are out of position, so the player writes down an assembly area for the attack and Preliminary Instructions to get there. The next turn the unit (size 0, 1 battalion minus staff modifier) accumulates 9 weighted turns (daylight, no contact, Vehicle formation). The player attempts to implement the Op Sheet and rolls a 46. This is not enough to implement the Attack Op Sheet (Prep 3 + 0 size = 3 row, with 9 weighted turns he needed a 35 to implement). However, to implement Preliminary Instructions the die roll needed was 44 (cross reference it as 8 weighted turns on the Move row). Preliminary Instructions have now been implemented and the Shermans can roll off to their assembly area even though the Op Sheet has not yet implemented.

6.14b Reserves. Reserves give Op Sheets some flexibility. Reserves are designated when drawing up the Op Sheet. Up to one half of all units on an Op Sheet may be designated as reserves when the Op Sheet is written. Consider an Op Sheet’s reserves to have Attack orders for implementation purposes. Uncommitted reserves are considered to be executing Preliminary Instructions.

To commit a reserve, the player must first identify the units being committed as a group and draw their intended use on the Op Sheet’s graphic. This cannot be changed later. Any number of units desired can be used, even a single platoon. Then roll to try to pass a Die Roll Check [6.14d]. The new group must continue to make Die Roll Checks each turn until successful. They are treated as Unassigned until this Die Roll Check succeeds. Units in reserve may not be Dug In unless allowed by the game rules.

Units in reserve can be assigned Move, Attack, or Hasty Defense orders that must be within the framework of their Op Sheet. Thus a player could assign them to defend an objective taken in a recent attack, guard a flank, or initiate a flanking attack themselves. Each group committed can be assigned only one type of operation. Thus to initiate a counterattack and then hold the ground taken would require two different reserve groups.

Reserves are always relative to an Op Sheet (i.e., a mission) and are not just hanging around waiting for something to happen. If during the Command Phase more than half the units on an Op Sheet are uncommitted in reserve, the owning player must commit enough units to bring the ratio back to 50% or lower. Once units are committed, they do not count as being in reserve, even if their Die Roll Check has not yet succeeded.

6.14c Alternates. A player can list alternate routes and/or objectives on an Op Sheet. The player can switch to these in the same way that he commits reserves. Draw alternates on the graphic when creating the Op Sheet. Once units on an Op Sheet switch to their alternates, they cannot switch back. Each unit can have one alternate route or objective.
6.14d **Die Roll Checks.** To commit a reserve or switch to alternates, make a Die Roll Check during each Command Phase until successful. Roll one die: if the roll is greater than or equal to the Command Prep Rating of the checking side, the Die Roll Check succeeds. Otherwise, it has no effect and a new roll must be made in the next Command Phase. A player with a Command Prep Rating of 7 or more cannot pass a Die Roll Check and is therefore unable to use alternates or reserves.

### 6.15 Line Entry Command (optional)

Line Entry Command is a shorthand version of the command system. It does require a fair degree of honesty to use, since there is no graphic to follow.

6.15a For each Op Sheet in this system, allocate one line on a piece of paper. Enter the units involved on the left followed by the Op Sheet size and type. Jot down the mission of the units (e.g. “Attack to capture village A”).

6.15b Each Command Phase, jot down the weighted turns and make any implementation rolls normally. Place a check mark to the right of any line that implements.

6.15c You must come up with an idea of how you want to execute the mission when it is first written down and follow that plan when it implements—regardless of changing circumstances.

### 6.16 Digging In

Units listed on a newly implemented Prepared Defense mission become Dug In. No other units are ever Dug In unless allowed by the game rules.

6.16a Units must be in Fire Mode at the moment their Prepared Defense Op Sheet implements to become Dug In. Units that are in Move Mode when their current Prepared Defense Op Sheet implements lose the opportunity to become Dug In.

6.16b Players must keep track of which units are Dug In using Dug In markers to indicate each unit’s status.

6.16c A unit loses its Dug In status if it enters Move Mode at any time.

6.16d Any unit that becomes Unassigned, Assigned to a mission other than Prepared Defense, or begins implementing Preliminary Instructions automatically loses its Dug In status.

6.16e It is not necessary to use Dug In markers to mark every Dug In unit on the map—they are intended to help in areas where players might get confused.

### 7.0 Visibility and Spotting

Visibility is the maximum range to which a Line of Sight (LOS) can be traced. Visibility is given as a number for each turn on the Turn Record Track; the Visibility number for a turn is the maximum range in hexes that a unit can trace a LOS during that turn; any LOS longer than the Visibility number of the current turn is automatically blocked. If no Visibility number is given, Visibility for that turn is unlimited.

**7.0a Weather can further reduce Visibility in accordance with the game rules.** When used, determine the Weather during the Command Phase of every full hour turn by rolling on the Weather Table. The Weather result affects the entire hour after the roll.

**7.0b Night, Twilight, Dawn, and Dusk turns also reduce Visibility [26.0].**

### 7.1 Spotting Ranges

The ranges at which certain types of fire can occur are limited by Spotting Ranges. Regardless of the appropriate Spotting Range, firing range might be still further limited by LOS [8.0], Visibility, and weapon ranges.

**7.1a The Spotting Range Table gives the Spotting Ranges based on the target type, target posture, firer posture, and the terrain of the target hex. Ranges that shift left off the table are 0; those shifting right off the table are unlimited.**

**7.1b PFAs [12.0] and Overwatch Fires [15.0] are not allowed at targets beyond the Spotting Range. SFAs may be performed against unspotted targets.**

**7.1c For the Spotting Table, Mortars use the range from the observer, not the range from the Mortar unit itself.**

**7.1d An SFA [11.0] is unspotted if the target hex does not contain at least one spotted unit. Unspotted SFAs that include any Low-Trajectory firers use the bold Target Terrain/Posture modifiers, and, if applicable, the Stacking modifiers with an asterisk.**

**7.1e To find the Spotting Range, find the column for target type. Shift columns as indicated on the Spotting Range Table (positive shifts to the right, negative shifts to the left), according to the terrain in the target’s hex (Protective, etc.), the target’s posture (Move Mode, Dug In, etc.), firer preparation (Dug In), and other factors (Smoke, etc).** For determining Spotting Range, use the unit in the target hex that produces the LONGEST Spotting Range even if that unit is not the intended target or the Overwatch Trigger.

**Example:** Company A, consisting of three platoons, is looking to cross Open terrain covered by a lone enemy MG section, which is Dug In in a woods hex. All units are Area targets and the base Spotting Range is 3. Units from Company A enter Move Mode (+1 shift on the Spotting Range Table) and are visible at a greater distance from the Dug In MG section because of prepared fields of fire (+1 shift for Dug In). Thus the advancing units can be spotted by the MG section at a range of six hexes (3 +2 columns on Spotting Range Table).

The Infantry units will have a much harder time spotting the MG section, which has -1 shift for Partly Protective terrain and a -1 shift for being Dug In. This yields a Spotting Range of one unless the MG section fires (giving a +4 shift to the Spotting Range Table). Trying to advance against this small MG unit across Open terrain may be a more difficult task than was previously thought. It might be time to try to suppress this MG section first or block the Line of Sight (LOS) with Smoke [8.1b] to reduce potential Overwatch Fires.

**Design Note:** Probably the most important feature of the modern battlefield is the fact that to any one observer on it, there is little or nothing to see. This has been termed the “Empty Battlefield”. Even “open” terrain is filled with minor obstructions to observation (trees, bushes, high grass, walls, small buildings, depressions, gullies, drainage ditches, and so on) making what appears to be an easy task to the game player (seeing what’s coming at him) impossible. Rather than to attempt to control what a player knows, these rules inhibit his ability to use that knowledge. When you see that infantry running up the “harrow” hill at you, remember there is a lot of firing going on which is beyond your control and of too little effect to worry about—the potshots of individual riflemen who are engaging fleeting targets of opportunity.

### 8.0 Line of Sight

Line of Sight (LOS) determines the ability of units to see each other.

#### 8.1 General Rules

8.1a LOS is traced from the center dot of one hex to the center dot of another hex. A LOS can either be unblocked or blocked. A LOS can be blocked by terrain features, such as woods and buildings, or higher ground as determined by elevation. Units do not block LOS.
8.1b LOS can freely pass into or out of Smoke hexes, but never through them. Barrage markers do not block LOS. [Exception: Continuous Fire markers; 18.6b].

8.1c Units can always fire into or out of—but not through—hexes which contain blocking terrain features.

8.1d A LOS is never blocked into an adjacent hex, including Overwatch Fire.

8.1e The map has been printed with contour lines and a color coding of contour bands to assist in determining the elevation of any hex. The elevation of a particular contour line is given along the line in meters. The contour interval is 20 meters unless indicated otherwise in the game rules. Note that a contour line is NOT a blocking terrain feature in the same sense that a woods or building symbol is, so crossing a higher elevation contour line does not, in itself, block LOS, although contour lines, by their effect on the elevation of hexes [through the procedure in 8.2], indirectly affect LOS.

8.1f A coastline (the line where the land touches the sea) is a contour line with an elevation of zero meters. Sea hexes are at an elevation of zero meters.

8.1g Any hex along a LOS (excluding the firing/spotting/observing hex and the target hex) that may block the LOS is called a Point of Contention (PoC); the base elevation of a PoC hex (including its hexsides) is determined using the procedure in 8.2 below.

8.1h Terrain features may add to the base elevation of a PoC. You can find the height of terrain features in the Terrain Effects Chart (TEC) for each game. For natural features (such as woods) and individual buildings, the printed map symbols block LOS only if the actual LOS crosses or touches the symbol. For village/town/city hexes, the whole hex (including hexsides) blocks LOS even if there are gaps in the actual printed building symbols in the hex.

If not stated otherwise in the game rules, trees (in forest, woods, hedgerow, orchard, and other symbols) and buildings (alone or in towns and villages) add 20 meters to the elevation of the PoC.

8.1i Ignore “Spot Elevations” and “Benchmarks” when evaluating elevations; they are for location reference only.

8.2 Standard Elevation Determination

The judgment of the elevation of a point falls into one of three categories.

8.2a Hilltops. A Hilltop is an area encircled by one last high contour line (possibly with the help of the map edge) and does not contain any contour lines higher than that top line. Elevations on a Hilltop are equal to the contour line encircling the feature. Hilltops are, in effect, flat.

8.2b Points Located Between or on Contour lines. Draw a line that passes through the center dot of the hex being evaluated, beginning at the next lower contour line and ending at the next higher contour line. The length of this line must be the shortest distance between the two contour lines. Divide the line into four equal quarters, starting from the lower contour line. Determine which of the quarter marks (0/4, 1/4, 2/4, 3/4, 4/4) the center dot is closest to. Add this proportion of the contour interval (20m) to the lower of the two contour lines used (for 20m contours you will add 0, 5, 10, 15, or 20). For example, a center dot which falls closest to the 1/4 mark above the 30 meter contour line would have an elevation of 35 meters. Accuracy beyond 5m is not required, so in games with 10m contours round to the nearest 1/2 contour (5m). The case where a contour line goes right through the center dot of the hex is the easiest—read the value of that contour line and that is the elevation of that hex.

8.2c Bottoms. A Bottom is the inverse of a Hilltop. It is an area encircled by one last low contour line (possibly with the help of the map edge) and does not contain any contour lines lower than that final line. Elevations in a Bottom are equal to the contour line encircling the feature. Bottoms are, in effect, flat.

8.3 LOS Determination

Use the procedure below to see whether a LOS is blocked by terrain.

8.3a Whenever a player declares an attack, check any PoCs along the LOS that may block the LOS.

8.3b To check LOS, follow the following procedure:

Step 1: Trace the LOS as a straight line between the center dot of the firing (spotting/observing) hex and the center dot of the target hex.

Step 2: Determine the elevation of the firing (spotting/observing) hex and the target hex, using only the base elevation at the hex center dot, as determined by the procedure above [8.2].

Step 3: Determine the elevation of each PoC. The elevation of a PoC is equal to the base elevation of the hex plus the height of the highest terrain feature that the LOS crosses within the PoC.

Step 4: Check the LOS on the LOS grid located at the back of these rules. Set the lower hex at its elevation along the left side and the higher hex at its elevation in the column corresponding to its distance in hexes from the lower hex and its elevation. Draw a straight line between the high and low points on the LOS grid. If the elevation of the PoC is higher than the line connecting the two points on the LOS grid, the LOS is blocked.

Note: Players may find that a rubber band or string is a good tool for checking LOS, while a clear ruler works well on the Line of Sight Grid.

8.4 Optional Simplified Elevation Determination

The standard elevation LOS rules are a relatively realistic way of determining elevation and LOS. However, if players prefer using a simpler “pancake” topography, then replace 8.2 with the following.

8.4a If a contour line touches a hex center dot, the hex is at the same elevation as the contour line. If no contour line touches the center dot, the hex is at the elevation of the next lower contour line from the center dot.

8.4b Bottoms. A Bottom is the area encircled by one last low contour line (possibly with the help of the map edge) and does not contain any contour lines lower than that final line. Elevations in a Bottom are defined as one contour interval lower than the contour line encircling the feature.

8.5 Optional "Contour-Heads" LOS Determination

Players who are comfortable reading contour maps may enhance their TCS gaming experience by using the following modifications to the LOS rules. 8.5a may be used by itself or in conjunction with 8.5b and 8.5c as desired.

8.5a Points Located Between or on Contour lines [modifies 8.2b]. Rather than using the center point to determine the elevation of a PoC, choose one specific point in the hex along the LOS as the actual PoC and draw a line through this point rather than the hex center dot to determine, by interpolation, the elevation of the PoC. The elevation of the PoC will be determined by the elevation of the highest point along the LOS in the PoC hex, plus terrain features, instead of...
the elevation of the center dot.

8.5b Hilltops [modifies 8.2a]. Hilltops are no longer considered to be flat. Unless depicted by a map symbol, the actual location of the “Hilltop” is defined, by map reading convention, as the center of the area enclosed within the last surrounding contour line. To determine the elevation of a Hilltop, use any Benchmark or Spot Elevation on the Hilltop; if there is no Benchmark or Spot Elevation, add 10m to the last contour line (one-half of the contour interval, usually 10m, is the technique taught in the US Army for estimating hilltop elevations). To determine the elevation of any point between the actual Hilltop and the highest contour line enclosing the Hilltop, use 8.2b.

8.5c Bottoms [modifies 8.2c]. Assign the lowest point in a Bottom an elevation of one-half the contour interval below the surrounding contour. Modify this as appropriate with your keen contour-map reading skills (i.e. perhaps only 1/4 a contour if it does not seem very low), using features such as streams to define the “lowest point”.

**Design Note: Determining LOS is always a tricky element in tactical combat games, and there is a trade-off between ease of play and “accuracy”. There are as many methods of checking LOS as there are games! It should of course be remembered that no contour map can adequately portray the actual terrain and that sighting the enemy is always difficult. Players should establish their method for determining elevation and stick to it, whether it be interpolation [8.2b] as taught in map reading in the military, or the pancake method [8.4] that is easier but can lead to some odd rounding. Players interested in real-life map reading are referred to US FM 21-26 Map Reading and Land Navigation which is also generally available via internet search.**

**Elevation Determination Example**

**Standard Method [8.2b]:**

**Hex 4.04:** The center dot is closest to the 1/4 mark between the 60m and 80m contour lines. Therefore, 1/4th of the contour interval is added to the lower contour elevation (60m). The elevation of the center dot and hex is 65m.

**Hex 3.05:** The center dot touches the 60m contour line. Therefore, the elevation of the center dot and hex is 60m.

**Hex 3.06:** The center dot is closest to the 4/4 mark between the 60m and 80m contour lines. Therefore, 4/4ths (all) of the contour interval is added to the lower contour elevation (60m). The elevation of the center dot and hex is 80m.

**LOS Determination Examples**

**Standard Method [8.2]:**

**A-G:** Unit A is between two contour lines [8.2b] and is determined to be at an elevation of 35 meters. The center dot for hex 4.05 is on a Hilltop [8.2a] which is surrounded by an 80m contour line, so G is at 80 meters. PoC 2.04 has an elevation of 50m, and PoC 3.05 has an elevation of 60m. These points are then plotted on the LOS Grid and a line is drawn between A and G. It can be seen that the LOS is clear because no PoC is higher than the line connecting A and G. See LOS Grid example.

**B-C:** Both the center dots for B and C are in a Bottom [8.2c] which is surrounded by the 40m contour line, so B and C are at 40m. The LOS touches the corner of hex 2.09 which is a village hex. A village hex has a height of 20m and includes its hexsides, so the total height of this PoC is 60m. Therefore, the LOS is blocked.

**B-H:** B is at 40 meters, H is at 80m, PoC 3.11 has an elevation of 70m. If plotted on the LOS Grid it would be seen that this PoC blocks the LOS.

**C-D:** Both C and D are at 40 meters. The LOS passes through a hex containing woods (2.07). The LOS is clear because the LOS does not touch the woods depiction.

**D-G:** D is at 40m and G is at 80 m. PoC 4.06 has an elevation of 60m. PoC 3.07 has a base elevation of 40m. The LOS crosses the woods depiction in the hex so the 20m height of the woods is added to the 40m base elevation. Therefore, the total height of PoC 3.07 is 60m. These points are then plotted on the LOS Grid, and a line is drawn between D and G. It can now be seen that the LOS is clear. See LOS Grid example.

**Optional Simplified Method [8.4]:**

**A-G:** A is at 20m, because the next lower line from the center dot is the 20m contour line. G is at 80m, because the next lower contour line (there is only one) from
the center dot is the 80m contour line. PoC 2.04 is at 40m and PoC 3.05 is at 60m. When plotted on the LOS Grid, it can be seen that the LOS is clear because no PoC is higher than the line drawn between A and G.

B-C: Both the center dots for B and C are in a Bottom which is surrounded by the 40m contour line, so B and C are one contour interval (20m) lower than the surrounding contour line. They are both, therefore, at 20m. The LOS touches the corner of hex 2.09 which is a village hex. A village hex has a height of 20m and includes its hexsides, so the total height of this PoC is 40m. Therefore, the LOS is blocked.

B-H: B is at 20 meters. H is at 80m. PoC 3.11 has an elevation of 60m. PoC 2.10 has an elevation of 40m. When plotted on the LOS Grid, it can be seen that the LOS is clear.

C-D: Both C and D are at 20 meters. The LOS passes though a hex containing woods (2.07). The LOS is clear because the LOS does not touch the woods depiction.

D-G: D is at 20m and G is at 80 m. PoC 4.06 has an elevation of 60m. PoC 3.07 has a base elevation of 20m. The LOS crosses the woods depiction in the hex so the 20m height of the woods is added to the 20m base elevation. Therefore the total height of PoC 3.07 is 40m. Neither PoC is high enough to block the LOS.

E-I: E and I are both at 60m. Either hex 3.12 or 3.13 can be used for a PoC. Hex 3.12 has an elevation of 80m. A PoC includes its hexsides, so the LOS is blocked.

F-G: F is at 40m. G is at 80m. PoC 4.04 has a base elevation of 60m. The LOS touches the building, so the height of the building is added to the base elevation of the PoC. In this example we will assume that the game specific rules give buildings a height of 5m. Therefore, the total height of the PoC is 65m. When these points are plotted on the LOS Grid, we can see that the LOS is blocked. If the building was not present, the LOS would be clear.

G-H: Both G and H are at 80m with no PoC between them higher than 80m. The LOS is clear.

9.0 Fire Combat

Fire combat occurs in two forms: Area and Point. A-firers can only conduct Area Fires. P-firers may conduct either Point Fires or Area Fires. All fire combat is resolved using the Fire Table, but each type of fire uses a somewhat different procedure.

Fire combats can occur during the Action Phases as Suppressive Fire Actions (SFAs), Point Fire Actions (PFAs), Overwatch Fires, Assault, and Overrun combats.

9.1 Rules and Restrictions

9.1a A unit can fire an unlimited number of times in response to Overwatch Triggers. In addition, a unit may perform up to three PFAs or one SFA per turn, if otherwise eligible. Exception: Mortar units can only fire once per Action Phase.

9.1b All direct fires require an unblocked LOS from the firer to the target. Mortars require an unblocked LOS from an observer to the target.

9.1c Only units in Fire Mode can conduct SFAs, PFAs, or Overwatch Fires.
9.1d Paralyzed units may fire only in Assault combat.
9.1e Mounted Infantry units may fire only in Assault or Overrun combat. Mounted or towed Weapons units may never fire.
9.1f AT guns conduct Area Fires at 1/2 Fire strength.
9.1g Unless allowed by the game rules, no unit can split its fire across multiple targets.

9.2 Target Type Restrictions
A unit’s target type (Point, Area, or Both) determines how an enemy unit can engage it in fire combat.

9.2a A-firers engage Area targets and B-targets using the Area Fire modifiers on the Fire Table. Infantry units cannot affect B-1 targets with A-fires.
9.2b P-firers engage Area targets using the Area Fire modifiers and Point targets using the Point Fire modifiers. They may choose either type of fire against B-targets.

9.3 Terrain Effects on Fire Combat
The Target Terrain/Posture Table gives terrain effects for four types of terrain: Billiard Table, Open, Partly Protective, and Protective. Each game’s Terrain Effects Chart classifies its terrain.

9.3a The applicable terrain effects are those of the target’s hex and the hexes of the target hex that the fire passes through. Use the most protective terrain of the target hex or hexside fired through when resolving a fire combat—therefore, a hex with some Open terrain and a small amount of forest (Partly Protective) is considered Partly Protective.
9.3b Terrain has no effect on attacks by Minefields [21.0].
9.3c For resolution of SFAs against unspotted targets [7.1d], use the bold column of the Target Terrain/Posture modifiers if any firer is Low Trajectory.

10.0 Losses
Losses for all units are taken in steps. Different unit types have different numbers of steps available. Mark step losses by placing a Step Loss marker under the unit.

10.0a Infantry platoons usually have 5 steps. Mortar units, Infantry sections, MG sections, and Carrier units have 2 steps. Vehicle units and On-Map artillery units have 1–6 steps per counter. All other units have 1 step unless otherwise indicated.

10.0b Step losses do not affect the printed Fire strength of Infantry or MG units, but do reduce the Fire strength of Infantry at close range [11.3d] and also affect Morale Checks [17.2]. Mortar and Carrier units have their Fire strength halved if they have lost one step.

**Design Note:** The lack of effect due to hits on, say, an infantry platoon, can seem odd at first. The reason? Let’s take the infantry platoon as an example. Small arms represent only one point of its firepower; the rest of its Fire strength comes from MGs. As it takes losses, unless one of the MGs is destroyed (unlikely), the platoon will scramble to ensure that the MGs remain manned and firing right up to the end. So, while that one point of firepower keeps dropping due to losses, the bulk of the platoon’s firepower remains the same until the last step (the last six guys available to feed the “pigs”) is destroyed and no one is left to man the guns. Disagree if you like, but I believe that both history and the inner workings of infantry units bear this out. A much more important method of reducing enemy fire effectiveness is suppression by fire, both in real life and here.

10.0c Whenever a Fire Table result calls for one or more step losses, adjust the markers under the target units and remove any units that have reached their step loss limit. Place destroyed units in their Battalion Morale boxes and track Vehicle Morale, if applicable.

10.0d Step losses belong to the unit that incurred them. Never transfer, absorb, or consolidate them with other units unless allowed by the game rules.

10.0e Ignore losses in excess of the number of steps in a stack.

10.0f In Area Fires, step losses can come from any unit in the hex that is not mounted in a Carrier—but the first loss must come from the largest (in steps) non-mounted unit in the hex. The defender chooses if there are two or more “largest” units. When assaulting, the largest unit in the assaulting stack must be selected. Losses after the first step can come from any unit in the hex. The defending player selects which units take half the losses (round up), then the attacker assigns the remaining losses.

10.0g When a unit (Carrier or Vehicle) carrying another unit or units loses one or more steps, eliminate the same proportion of the carried steps, using 10.0f to assign losses. Thus, if a 2-step truck is carrying a 5-step Infantry platoon loses one step, the Infantry platoon loses three steps (50% rounded up).

**Example:** Player A makes a large Area Fire attack against a stack of Player B’s units. The Fire Table result turns out to be eight steps. After Player B gets done screaming at Player A and kicking furniture around the room, they must inflict the eight steps. There are two full-strength Infantry platoons and an AT gun in the target hex. First, Player B takes the very first step loss from one of the Infantry platoons. This leaves seven steps to distribute. They divide the seven by two and round normally to get four. Player B inflicts four step losses between the two Infantry platoons. Player A then gets to inflict the remaining three step losses. He takes great care to kill off the AT Gun and then to hit the Infantry platoon hard which has the worst Morale of the two—thereby setting up the target hex for a big failure when it comes time to do the Morale Check required by the Fire Table result. Player B swears under his breath and starts planning a large artillery barrage for the next turn.

10.0h To assign losses for Point Fires, players, beginning with the firer, alternate selecting a step to eliminate from among the eligible target steps.

11.0 Area Fires
Resolve fires against Area targets using the Area Fire modifiers given for the Fire Table. Handle the attack as one strike against the hex, with all A-targets and vulnerable B-targets being attacked together.

**Procedure:**
Identify the target hex and the firers. Total the applied Fire strength and find the column heading containing that amount. Add any applicable Area Fire column shifts together and apply the net result (positive shifts to the right, negative shifts to the left) then roll two dice (11…66) on the Fire Table and apply the result. Make a Morale Check if any result other than ‘no effect’ is achieved. Any attacks shifted to the right of the 101+ column are rolled on the 101+ column. Attacks adjusted to the left of the zero column have no effect.

11.1 Rules and Restrictions
11.1a Area Fires may not be made at targets beyond the firer’s maximum range. Area Fires do not affect Point targets.

11.1b B-1 targets take losses from Area
Fires only if none of the firing units is an Infantry unit.

11.1c Combat results on the Fire Table appear as step losses. If units are completely destroyed as a result of the Area Fire, be sure to assign them for Battalion Morale purposes [17.1].

11.1d A-firers and P-firers can combine to make Area Fires.

11.1e P-firers can conduct Area Fires at a range of up to twice their nominal range.

11.1f If multi-step Vehicle, gun, and On-Map Artillery units have an Area Fire strength equal to the number of steps in the unit multiplied by its Fire rating. Thus, a 5-step Tiger unit (P-5 firer) has an Area Fire strength of 25.

Example: Player A announces an SFA on a hex containing a 5-step Infantry platoon in Move Mode, a full-strength half-track unit (B-1) with a mounted Infantry platoon, and another half-track unit with only one step remaining that is towing an AT Gun. The hex is Open terrain. The attacking Fire strength is 11. The attacking units include two Infantry Platoons at range 4 and a Mortar.

A Fire strength of 11 uses the 11–13 column, but is shifted +2 (to the right) for Move Mode in Open terrain and –1 (to the left) for range 4. The mounted platoon does not count for stacking, nor do the half-track units since they cannot be harmed by this attack [11.1b], but the AT Gun does count because it is being towed and is vulnerable, so there are six steps in the hex for determining a stacking modifier, yielding no shift. The total shift is +1 to the right and the fire is resolved on the 14–16 column.

The firing player rolls two dice and gets a 65 (ouch!) which results in three step losses. Because an Infantry platoon was involved in the fire, the B-1 targets (and their passengers) are immune to losses. The towed AT Gun, however, is vulnerable to loss. The defending player assigns one step loss to the dismounted platoon since it is the unit with the most steps. The remaining two steps losses are split between the firing player and the defending player. The defending player applies his to the Infantry platoon again, while the firing player elects to destroy the AT gun. The defending player then makes his Morale Check using the weakened platoon’s Morale since it is the unit with the worst Morale in the hex (and now even worse with –2 steps).

11.2 Low-Trajectory vs. High-Trajectory Fires

Some Area Fire modifiers are based on whether the incoming fire is Low-Trajectory or High-Trajectory. Area targets can hide from low grazing-type fire but are more vulnerable to high trajectory HE-type fires.

11.2a High-Trajectory fires are all Mortars, Infantry Guns, On-Map Artillery, and Vehicle units with an Area Fire rating that are indicated in the game rules as being High-Trajectory firers (also Artillery and Sorties). High-Trajectory firers cannot help to create a Cross Fire.

11.2b Low-Trajectory firers are all other firers, including Infantry, MG, AA Guns, and P-firers. Low-Trajectory firers can create Cross Fires [11.4].

Design Note: While one can quibble about whether Shermans carrying 105mm guns are Low-Trajectory firers or High-Trajectory firers, the distinction demonstrates that Area targets hugging the ground (i.e. in Fire Mode) are difficult to kill with Low-Trajectory ballistics weapons. Some Infantry Guns fire at fairly low trajectories, but their large HE effect makes up for this.

11.3 Area Fire Modifiers

The modifiers used to resolve Area Fires are found with the Fire Table.

11.3a Terrain. Find the row with the terrain in the defender’s hex and cross-index it with the posture of the defending units.

If a hex or applicable hexside contains more than one terrain type, apply the one that most favors the defender. [Exception: for some Movement-based Overwatch Triggers, the terrain of the hexside crossed may be used; see 15.2c].

If the target SFAs is unspotted and any firing unit Low Trajectory, use the numbers in bold font in the right-hand columns of the Target Terrain/Posture modifiers.

11.3b Target Posture. If units in more than one target posture occupy the hex, apply the one that favors the defender. Ignore all Point targets, mounted units, as well as all B-1 targets if the Area Fire cannot affect them [11.1b]. Billiard Table modifiers apply differently to Vehicles/Carriers.

11.3c Range. Find the range modifier for each firing unit on the Area Fire Range Modifier Table and apply the one that most favors the defender.

The row for Low-Trajectory covers all Low-Trajectory firers except Infantry.

Design Note: Using the worst range modifier inhibits giant consolidated and coordinated shots (quite rare in real life, but not too common in wargames). TCS highlights and rewards the kind of close-in, sporadic fighting that did occur—not the typical wargame “everyone within two clicks fire up that platoon in hex 12.34” shot.

11.3d Infantry. Infantry units receive a bonus to their Fire strength (not column shifts!) if they are close to their target. This represents small arms and grenades. At range zero (in the same hex), add the number of Infantry steps remaining to the total Fire strength. At range one, add one-half of all Infantry steps, rounding normally.

11.3e Stacking. To find the stacking modifier, count the steps in the hex, excluding all Point targets, units being carried inside a Carrier, and any B-1 targets that cannot be affected by the attack. Include towed units, units being carried by Vehicles, and eligible B-1 targets when counting steps.

11.3f Other Modifiers. Apply additional modifiers from this table as appropriate. Night, Twilight, Smoke, Illum, and Artillery Attack Zones do not affect Artillery resolution on the Fire Table. Suppressed and Paralyzed targets do not receive a favorable shift at range zero. A target hex containing a Vehicle step with a P-defense rating of 2 or higher receives a –2 shift if any firer is a Low-Trajectory Firer. The –2 road moving modifier is used in Movement-based Overwatch if the triggering stack is utilizing road movement. It also applies to stacks moving into a hex in or adjacent to an Artillery Attack Zone [18.8c].

11.4 The Cross Fire Modifier

Low-Trajectory firers (Point or Area) can create a Cross Fire if they can direct fire into a single hex from widely separated angles. Cross Fires gain positive modifiers both on the Fire Table and the Morale Table.

Procedure:

Twelve lines (30° apart) radiate from the center dot of the hex occupied by the target unit: one through the center of each hexside (directly down each hex row) and one through each hex corner (alternately along a hexside and diagonally across a hex).

Pick any two Low-Trajectory firing units. Count the number of 30 degree lines on and between those units, using the smaller of the two possible angles (in other words, if the two units are sitting right next to each other, you don’t go the long way ‘round for nearly 360 degrees). If the total is five
12.1 Point Fire Modifiers

12.1a Terrain/Target Posture Chart. Find the row with the terrain type in the defender’s hex and cross-index it with the posture of the defending units. If a hex or applicable hexside contains more than one terrain type, apply the type that favors the defender most [exception: 15.2]. If units in more than one target posture occupy the hex, apply the posture that favors the defender least. Only units actually being fired upon are used to determine this modifier.

Example: A hex contains Dug In AT Guns and tanks in Move Mode. The firer selects the AT Guns only as the targets, so the target posture is Dug In.

12.1b Range. Find the Range Modifier for each firing unit on the Point Fire Range Modifier Table and apply the one that favors the defender most. The range printed on the front of a P-firer counter is its “Nominal” range. The Point Fire weapon range categories are “Close” (less than or equal to one-half the printed range, rounded up), “Nominal” (beyond Close, up to the printed range), and “Long” (beyond Nominal, up to twice the printed range). So, for a unit with a printed range of 7, Close is 0–4, Nominal 5–7, and Long 8–14.

12.1c Differential. Find the attacking unit with the lowest Point Fire strength and then subtract the best P-defense strength of the defending units.

12.1d Other Modifiers. Apply modifiers from the Other Modifiers Table as appropriate to Point Fires. This includes the Crossfire Modifier.

12.2 Rules and Restrictions

12.2a Unlike Area Fires, specific units in a target hex may be selected. This is important because only the actual targets affect target posture and defense strength. Thus a firing player could decide to fire at three armored cars while ignoring a Panther tank in the same hex.

12.2b A given target can be engaged by as many or as few firers as the player wants, given the PFA and Overwatch rules.

12.2c The firing player can selectively target Point Fires against towed units; such fires never affect the towing unit regardless of the result.

12.2d B-targets with a Morale Value on their counter have a Defense value of 0.

12.2e When rolling on the Fire Table, any number result indicates the number of targets destroyed. Apply losses as per 10.0h.

12.2f Point Fires never cause Morale Checks.

12.2g Point Fire Column shifts use all columns on the Fire Table, not just those columns that have a value for the number of P-firers.

Example: A Panther (P–5) fires on two Shermans (P–3 defense) in Fire Mode in Open terrain (+0) at range 8. This is Long range (+0) for the Panther (whose Nominal range is 7). The following modifiers apply:

Terrain: +0
Range: +0
Differential: +2

The fire begins at the 4 column (1 P-firer) and is shifted to the right 2 columns for the differential (5–3), landing on the 6 column. The German player rolls a 65, yielding a 1-step loss. Had he rolled a 66, both Shermans would have been eliminated. The American player mutters about his bad luck, removes one Sherman, and places a marker in the Vehicle Morale Box for the Sherman’s formation [17.8].

The remaining Sherman uses the Panther’s fire as an Overwatch Trigger with which to return fire. The Panther is also in Fire Mode in Open terrain. The Sherman’s attack is 3 (a short barreled 75mm gun) and the Panther’s defense is 4. The range for the Sherman is also Long. The modifiers for Target Terrain/Posture and Range are both +0. The differential is -1 (modifier -2). The fire again starts on the 4 column and shifts left 2 columns because of the -1 fire differential. The player rolls two dice for a 62 which fails to kill the Panther (he needed a 63). In retrospect, the player controlling the Sherman feels he should have conducted a Vehicle SYR [15.2b] with the Sherman instead of firing, since the Panther still has two more Point Fire Actions [14.0].

13.0 Suppressive Fire Actions

The Suppressive Fire Action (SFA) allows units from one or more hexes to attack a target hex with a single Area Fire. Conducting an SFA is the only way for units in multiple hexes to engage in a common
Area Fire attack in one fire combat. To conduct an SFA, fulfill the various requirements below and announce the firers and the target hex. Mark any units firing an SFA with Fired markers.

**Design Note:** SFAs represent an entire turn of fire trying to suppress and keep units in a hex pinned down. Players should be forewarned of the implications of firing SFAs. While the fire of an SFA is coordinated between different units, the trade-off is that after firing the SFA, all units are marked as Fired. This greatly restricts their ability to fire Overwatch until their next Action Phase. If you choose to fire many SFAs and fail to leave someone to cover the units firing SFAs, don’t come crying to me if you have no one left to fire Overwatch when the enemy bolts across an open field to assault your units.

### 13.1 Rules and Restrictions

13.1a Units can conduct SFAs only in the friendly Action Phase.

13.1b To fire an SFA, units must have been continually in Fire Mode since the beginning of the current phase and cannot be marked with a Fired marker or have fired a PFA or made an AT attack.

13.1c Unassigned units [6.3] and units on implemented Move Op Sheets cannot fire SFAs.

13.1d Each SFA provides one Overwatch Trigger which the non-phasing player can use to fire at any one hex containing units which participated in the SFA.

13.1e Units in different stacks may combine their fires to do an SFA.

13.1f Paralyzed units may not participate in SFAs.

13.1g SFAs do not require a Trigger.

13.1h A hex can be the target of only one SFA per Action Phase. SFAs consisting only of AT rolls are not so limited.

13.1i After each SFA is executed, including any SYRs caused by the SFA, mark all the units that fired with Fired markers.

**Example:** Player A wishes to conduct an SFA against a hex occupied by an Infantry platoon (5 steps), a MG section (2 steps), and an AT Gun, all in Fire Mode in Partially Protective terrain and marked with a Fired marker. The firer can bring to bear two Infantry platoons with an Area Fire strength of 4 each (one at range 3, the other at range 4); two MG sections with a Fire strength of 2 each, at range 4; two AT Guns with a Fire strength of 2 each, at range 3; and a Mortar with a Fire strength of 4, at range 16 (within range).

### 14.0 Point Fire Actions

Point firers do not spend an entire turn trying to keep a hex suppressed. Rather, they try to kill their target (which they can see perfectly well) as quickly as possible.

### 14.1 Rules and Restrictions

14.1a Point Fire Actions can only be made against spotted B-targets or Point targets.

14.1b A Point Fire Action involves a unit or units from one or more hexes conducting one Point Fire against at least one B-target or Point target in a single hex.

14.1c A unit may participate in up to three PFAs in a single Action Phase. Units which conduct one or more PFAs in an Action Phase may not move [Exception: see 20.2 Vehicle Impulses] or fire an SFA; they may conduct Overwatch Fires [15.0].

14.1d Unlike SFAs, units which conduct a PFA are not marked with a Fired marker.

14.1e Once a PFA has been completed, the non-phasing player has a Fire-based Overwatch Trigger on one of the firing hexes.

14.1f Vehicle units may fire one PFA during each of their three Vehicle Impulses [20.2].

14.1g Pfirers must begin the Action Phase (or Impulse) in Fire Mode in order to conduct a PFA. Thus units cannot change to Fire Mode (which is movement) and fire a PFA in the same Action Phase or Impulse.

14.1h There is no limit to the number of PFAs that can be fired at a hex.

14.1i Units that are Unassigned, Paralyzed, or marked as Fired may not conduct PFAs.

### 15.0 Overwatch

Overwatch (OW) is the TCS version of what is commonly called “Opportunity Fire” in other games. Overwatch Fire is a provoked action taken by units with an unblocked LOS to an Overwatch Trigger. An Overwatch Trigger is an event that draws enemy fire—such as movement into a hex or firing. A unit can fire any number of Overwatch Fires in a phase as long as it meets the conditions for firing.

Overwatch Fires are voluntary and need not be planned in any way.

**Important:** Only one stack can respond to an Overwatch Trigger. Once a Trigger is spotted, conduct the Overwatch Fire exactly as any other fire in the game, and resolve it fully before continuing play. The firing player chooses whether to respond to the Trigger and which stack to fire.

### 15.1 Overwatch Cycles

There are four primary Overwatch Cycles. In the examples below, it is Player A’s Action Phase.

#### 15.1a Movement-based Overwatch Cycle

This cycle occurs in an Action Phase when the instant a unit moves into a hex (note: this cycle can also occur in the Aircraft & Artillery Phase or in either Action Phase in response to an SYR [17.4f & 18.10]).

- Movement-based Overwatch Trigger (Player A).
- Overwatch Fire (Player B).
- Overwatch Return Fire (Player A).

#### 15.1b Fire-based Overwatch Cycle

This cycle occurs in an Action Phase when a player has executed a PFA or SFA (note: this cycle can also occur in the Aircraft & Artillery Phase in response to AA fire or an On-Map Artillery Mission [18.10]).

- SFA/PFA/AA/On-Map Artillery Mission is executed (Player A).
- Overwatch Fire (Player B) against one firing hex.

#### 15.1c Recovery Overwatch Cycle

This cycle occurs when a player has declared a unit in a stack to be recovering from Suppression or Paralysis.

- Recovery conducted (Player A).
- Overwatch Fire (Player B).
15.1d Final Overwatch Cycle. This cycle occurs when an Assault or Overrun is declared.
  • Attack announced (Player A).
  • Overwatch Fire (Player B, target hex only may respond to this Trigger).

15.2 Overwatch Triggers

Overwatch Fires occur in response to Overwatch Triggers. If there is no Trigger or the Trigger cannot be spotted, there can be no Overwatch Fires.

15.2a Events Generating Overwatch Triggers. Four events can trigger Overwatch Fires: (1) Movement (including SYRs), (2) Fires, (3) Recovery from Suppression or Paralysis; and (4) Assaults or Overruns. Overwatch Triggers occur when an enemy unit or stack A) enters a hex; B) executes an SFA, PFA, AA fire, On-Map Artillery Mission, or Movement-based Overwatch; C) declares a Recovery; or D) declares an Overrun or Assault. AT Rolls do not generate Overwatch Triggers.

15.2b LOS and Triggers. The Overwatching unit or observer (in the case of Mortars) must have an unblocked LOS to the Trigger and must be within Spotting Range. A Movement-based Trigger is located at the center of the hex which the unit just entered. All other Triggers are located at the center of the hex the triggering unit or stack occupies.

15.2c Movement-based Triggers. A Movement-based Trigger occurs the instant an enemy unit enters a hex, whether due to movement or because of an SYR. Attack such units with Artillery Barrages or Minefields only after any Overwatch Fires. Units may not change to Fire Mode until after any Overwatch Fire has been conducted (and any Artillery Barrages or Minefield attacks executed). Once all attacks have been resolved, the moving units can switch to Fire Mode or continue to move. A moving unit which triggers Overwatch Fires can never use those fires as a Trigger for its own Overwatch Fires.

A stack can respond to a non-adjacent Movement-based Overwatch Trigger in Protective or Partly Protective terrain only if it can trace an unobstructed LOS to the hex that the unit is leaving in addition to the one it is entering. The hex the unit leaves does not have to be within the Spotting Range of the responding stack; only a valid LOS is required.

If a stack responds to a Movement-based Overwatch Trigger and can trace a LOS to both the hex that the moving unit or stack is leaving and the hex it is entering, the firing player may, at his discretion, use the terrain of the center of the hexside crossed rather than the terrain of the hex entered to determine Spotting Range, terrain modifiers on the Fire Table, and the modifiers to any resulting Morale Checks.

A)acknowledge, mounting/dismounting and entering the target hex of Assault Combat do not generate Overwatch Triggers. Exiting Overwatch combat does generate an Overwatch Trigger.

15.2d Fire-based Triggers. A Fire-based Trigger occurs whenever an SFA or PFA is conducted, an On-Map Artillery Mission or AA fire is executed in the Aircraft & Artillery Phase, or a stack conducts Overwatch Fire against a Movement-based Overwatch Trigger. Fires that occur within Assault and Overrun combats do not generate Overwatch Triggers.

15.2e Recovery Triggers. A Recovery-based Trigger occurs immediately after a unit or stack recovers from being Suppressed or Paralyzed. Non-mortar units marked as Fired may fire at these Triggers normally.

15.2f Final Overwatch Triggers. These Triggers occur immediately when the phasing player announces an Assault or Overrun. Only eligible units in the hex targeted by the Assault or Overrun can fire OW in response to this Trigger. The Trigger location is the center of the hex occupied by the assaulting or overrunning units, although the non-phasing player may, at his discretion, use the terrain of the hexside being crossed by the assaulting or overrunning units rather than the terrain of the trigger hex to determine terrain modifiers for the Fire Table as well as any Morale Checks. The range of Final Overwatch Fire is one hex.

15.2g Targets and Overwatch Triggers. Each unit in the hex responding to an Overwatch Trigger uses either Area Fire or Point Fire. All A-firers combine in one Area Fire and all P-firers combine into one Point Fire. Point Fires may be made at any spotted units in the hex, even if these units did not provide the Trigger themselves.

15.2h Vehicle SYR. Vehicle units which respond to an Overwatch Trigger provided by a Point Fire action may conduct an SYR rather than fire at the Trigger. Units mounted on retreating Vehicles stay with the unit (holding on for dear life). Vehicle units that retreat do not affect the ability of other units in the same hex to use Overwatch Fire. Vehicles in Move Mode may conduct Vehicle SYRs even though normally only units in Fire Mode may respond to Overwatch Triggers.

15.3 Rules and Restrictions

15.3a No unit marked as Suppressed or Paralyzed may fire any type of Overwatch, including Final Overwatch.

15.3b Units marked as Fired are prohibited from firing in response to Movement-based or Fire-based triggers at any range greater than one. They are not prevented from firing at Recovery and Final Overwatch Triggers by being marked Fired.

15.3c MG units are not restricted by 15.3b and may respond to any Overwatch Trigger if otherwise able, even when marked with a Fired marker.

Design Note: This ability of MG units to fire Overwatch even after conducting an SFA represents the MG units’ better supply and capabilities vs. light MGs incorporated into the fire strength of Infantry platoons.

15.3d Units in Move Mode can observe for Overwatch Fire from Mortars.

15.3e Overwatch Area Fires affect ALL eligible units in the target hex, not just the ones who offered the Trigger. Remember that Point Fires can only affect spotted P-targets or B-targets that the firing player has designated as targets.

15.3f Units may make AT Rolls in response to Overwatch Triggers, in addition to any other fires.

15.3g A player cannot fire an Artillery Mission in response to an Overwatch Trigger.

15.3h A unit can fire Overwatch even if the fire cannot affect the triggering unit. Thus, if Vehicle units move through a hex containing friendly A-targets, the opposing player may fire Area Fire Overwatch in response to that Trigger hoping to affect the A-targets in the hex even though the Vehicles that triggered the fire will be unaffected.

15.3i Vehicle Impulse Triggers. Vehicles conducting a Vehicle Impulse [20.2] trigger Overwatch Fire normally. However, any given stack belonging to the non-phasing player may fire at a moving Vehicle stack only once per Impulse. Different stacks can respond to each Trigger during an Impulse move, but units in any given enemy stack can only fire at it once for that Impulse.

15.3j SYRs. Units conducting an SYR offer Movement-based Triggers as if they had moved normally. An SYR is treated as a single Impulse for Vehicles units conducting an SYR.

15.3k Unlike with SFAs, units which conduct Overwatch Fire are NOT marked with a Fired marker.
16.0 AT Rolls

AT Rolls represent assaults by small infantry groups against P-targets and B-targets. Naturally, this combat method depends on the cover and concealment afforded by terrain.

Units can only use AT Roll attacks to destroy Point targets and B-targets at a range of one hex or less.

Important: Each step of the firing unit(s) can make one AT Roll against a Vehicle, Carrier, or B-target step, but a target step can be attacked only once in a given AT Roll attack. Units may conduct Area Fires in addition to making AT Rolls against the same target hex in any order desired.

Procedure:

Cross index the target hex’s terrain with the attack range (In-hex, One Hex Range) on the AT Roll Table to determine the base dice roll needed for a kill. Roll two dice for each target in the target hex—up to the maximum of one attack per attacking step. Modify each roll according to the AT Roll Table modifiers.

16.1 Rules and Restrictions

16.1a Only Infantry units in Fire Mode can make AT Rolls [Exceptions: See 22.0 Assault combat and 23.0 Overrun combat]. Suppressed units can make AT Rolls. Mounted units cannot make AT Rolls. Paralyzed units may only make AT Rolls in Assault combat. No unit is ever required to make an AT Roll attack.

16.1b An AT Roll attack can be part of an SFA, Overwatch Fire, Assault, or Overrun. Regardless, the unit conducting the AT Roll can also fire normally at the same time.

16.1c When a unit makes an AT Roll attack against a hex, roll separately for each Point target or B-target step attacked. A given Infantry unit can only attack one hex with AT Rolls per fire, regardless of the number of steps involved.

16.1d AT Roll attacks have a maximum range of one.

16.1e An original (i.e., non-modified) dice roll of 3 or less in an AT Roll attack destroys the step making the attack. These losses to the attacking unit do not cause Morale Checks. Only the one step of the unit actually making the attack is affected by this rule.

16.1f AT Rolls may be resolved before or after Area Fires and Point Fires as desired by the firing player. Thus, in an Assault combat the firing player could execute Area Fire first, hoping to eliminate defending infantry and then execute his AT Rolls afterwards.

16.1g If an SFA consists only of AT Rolls, the firing units are not marked with a Fired marker but they are still treated in all other ways as if they had conducted an SFA (i.e., they may not move or conduct any more SFAs for the rest of that Action Phase, although they may conduct Overwatch Fires normally).

16.1h AT Rolls by themselves do not generate Overwatch Triggers.

Example: Player A decides to conduct an SFA composed only of AT Rolls with a platoon of two steps against an adjacent stack of five tanks. The target is covered with Smoke from an earlier Mortar fire. The terrain of the attack is that of the target hex (Protective). The base roll for One Hex Range attack in Protective terrain is 8. Of the AT Roll Table modifiers, only the +1 for a target in Smoke applies, so the attack will be successful if the player rolls a 7 or more. He rolls once for each of the two tanks that the unit can attack (because only two steps are attacking), getting a 9 and 4. The final result is that one of the tanks is destroyed, possibly requiring the non-phasing player to make a Vehicle Morale Check [17.8].

Because the SEA was composed only of AT Rolls, there is no Overwatch Trigger and the attacking stack is not marked as Fired. It may not conduct any more SFAs or move for the rest of its Action Phase, although it may conduct Overwatch Fires normally.

17.0 Morale

Morale effects represent the troops’ covert or overt actions to refuse to continue dangerous operations.

17.0a All Infantry and Weapons units are subject to Morale Checks and their results. Vehicles and Carriers never make Morale Checks of their own, although they may be affected by the Morale Checks of the Infantry and Weapons units with which they are stacked, and Vehicle formations may be required to make Vehicle Morale Checks [17.8]. When a Morale Check is required, the entire stack checks Morale as a whole and the result affects the entire stack. Vehicles and Carriers ignore Suppressed or Paralyzed results, but must follow any SYR or Surrender results.

17.0b Infantry and Weapons units check Morale whenever their hex is subject to an Area Fire attack that results in a Morale Check or Step Loss.

17.0c Mark unit Morale conditions with Suppressed or Paralyzed markers. All units under a Morale marker have the same Morale condition. Units stacked in the same hex may have a variety of morale conditions.

17.1 Battalion Morale

Battalion Morale measures the cumulative punishment that a battalion has received. Unless specified otherwise, all Battalion Morale values begin at zero; Battalion Morale can increase without limit but it can never drop below zero.

17.1a Place destroyed units in their battalion’s box on the Battalion Morale Display. Each Infantry platoon and every three other units (MGs, Mortars, AT guns, Carriers, etc.) in a box add one to that battalion’s Morale. Non-infantry units only have an effect each time the third one is killed. Ignore non-combat losses (for example, paradrops, amphibious landings, etc.) for purposes of Battalion Morale.

17.1b Battalion Morale affects all units of the battalion when they make Morale Checks, but the Battalion Morale value of a battalion only affects the units in that battalion.

17.1c Some formations, especially Weapon-Battalions, have no Battalion Morale Box and thus are not subject to Battalion Morale. However, whenever an Infantry, Weapon or Carrier unit that is not associated with a formation subject to Battalion Morale is eliminated, place the unit in the Battalion Morale Box belonging to the unit closest to it that is subject to Battalion Morale. If more than one battalion has units equidistant, the opposing player decides which battalion the eliminated unit is applied to. This means that every non-Vehicle unit eliminated will count towards the Battalion Morale of some friendly battalion.

17.1d Battalion Morale Reduction. During the Command Phase of every full hour turn (i.e., 0800, 1100, 2200, etc.), both players simultaneously recover Battalion Morale. Roll one die separately for each battalion with a Battalion Morale value of one or greater. If the die roll is equal to or less than the battalion’s current Battalion Morale, reduce that Battalion Morale value by 1 (simply remove one eliminated platoon or three other units from the Battalion Morale Display). On any other result, there is no effect. See 26.1d for Night effects.

17.1e If any unit of a battalion or similar formation is on an implemented Attack Op Sheet with an attack mission (i.e., not in reserve or defending as part of the Attack Op Sheet), that battalion or formation may not roll to reduce Battalion Morale.

17.1f Old Battalion and Company Morale. For pre-v4.0 TCS games, ignore all starting Company and Battalion Morale values given in scenarios.
17.2 Conducting Morale Checks

A unit’s Morale value equals: Printed Morale + Step losses + Battalion Morale + Morale Table Modifiers. Find the column on top of the Morale Table that contains the resulting number. Roll two dice (11..66). Read down the column to the row containing the dice roll. Read to the table’s right to determine the result. Apply the result.

Example: After taking a step loss due to an Area Fire, a player has to make a Morale Check for his stack. The unit which took the step loss is an Infantry platoon with a Morale of 4 and it has now lost a total of three steps. It has a Battalion Morale of 1. The only modifier which applies is the +1 for being at Night. This gives a total of 9 (4 Morale + 3 Steps Lost + 1 Battalion Morale + 1 Night).

Find 9 along the top of the Morale Table and roll two dice (11..66). The player rolls a 46 which gives an SYR result. The defending player must now execute a Save Yourself Retreat with the stack, hoping it survives any Overwatch Fires it may receive in the process.

17.2a Determining Which Unit Checks Morale for the Stack. The selection of which unit performs a stack’s Morale Check is important. The chosen unit must have the “worst morale” in the hex. To determine the “worst morale unit,” select the one that has the greatest total of printed unit Morale, step losses, and Battalion Morale. Eliminated units are eligible, in which case their step losses are equal to the full-strength stacking value of their counter.

17.3 Suppression

Suppression is the most common fire combat effect on a unit. Suppression hampers a unit’s ability to fire and move.

17.3a Suppressed units may not:
• change Mode voluntarily
• breach Minefields
• voluntarily mount or dismount
• fire Overwatch of any kind
• conduct a Voluntary SYR
• observe for Mortars, Artillery, or Sorties

17.3b Suppressed units may:
• fire SFAs and PFAs
• fire during Assault or Overrun
• conduct AT rolls

17.3c Units in Move Mode that become Suppressed automatically change to Fire Mode unless mounted in a Carrier. Units mounted on Vehicles dismount, switch to Fire Mode and are Suppressed.

17.3d Additional Suppressed resultshave no further effect [Exception: See 22.0c Assault combat].

17.4 Save Yourself Retreats

A Save Yourself Retreat (SYR) is the result of troops deciding that it is better to be elsewhere. An SYR can be Voluntary or Obligatory; all rules governing SYRs apply to both Voluntary SYRs and Obligatory SYRs unless specified otherwise.

A Voluntary SYR can begin in one of three ways: (1) in lieu of performing normal movement during the owning player’s Action Phase (all eligible units); (2) in lieu of Final Overwatch Fire prior to Assault combat (all eligible units [22.0]); or (3) Vehicle SYR as a response to a Point-Fire-based Overwatch Trigger (selected Vehicles only [15.2h]).

When a player chooses to conduct an SYR in lieu of performing normal movement, every unit in the hex that is not Suppressed or Paralyzed must participate in the SYR and is subject to the SYR procedure below; all Suppressed and Paralyzed units remain behind and are not affected by the SYR procedure.

When a player chooses to conduct an SYR in lieu of Final Overwatch Fire, every unit in the hex that is not Suppressed or Paralyzed must participate in the SYR and is subject to the SYR procedure below; all Suppressed and Paralyzed units remain behind and are not affected by the SYR procedure.

When a player chooses to conduct a Vehicle SYR in lieu of Overwatch Fire as a response to a Point-Fire-based Overwatch Trigger, he may select any Vehicle units not marked with a Fired marker to participate in this SYR; all non-selected units remain behind and are not affected by the SYR procedure below.

An Obligatory SYR only occurs as the result of a Morale Check and always affects the entire stack.

Use the following procedure to conduct an SYR (Note: steps 1-3, as designated, apply to only certain types of SYR; steps 4-6 apply to all types of SYR):

1) Remove half the remaining steps (rounding up) from each Paralyzed unit that conducts an SYR from Assault combat (only applies to Obligatory SYRs during Assault combat).
   2) Remove any Paralyzed or Suppressed markers (only applies to Obligatory SYRs).
   3) Eliminate any non-Suppressed/non-Paralyzed AT guns, Infantry Guns, AA guns, Mortars, and On-Map Artillery not in Move Mode with Integrated Carriers or mounted/being towed (applies to all types of SYR except Vehicle SYRs).
   4) Place all affected units in Move Mode (applies to all SYRs).
   5) Owning player conducts an SYR according to the rules below (applies to all SYRs).
   6) Upon stopping, Vehicle and Carrier units (including units using Integrated Carriers), as well as any units mounted on them, remain in Move Mode. All other units enter Fire Mode and are automatically Suppressed (applies to all SYRs).

17.4a All units in a hex that conduct an SYR must move together as one stack.

17.4b The owning player retreats the stack to the hex opposite the enemy action (if any) that caused it. If that first hex is blocked by terrain or enemy units, you can substitute another one as close to it as possible. If a unit is unable to retreat as required, destroy it.

17.4c Units performing SYRs conduct movement in terms of hexes, not movement points. A stack consisting only of Vehicles and/or Carriers (including carried/towed units) executing an SYR must retreat six hexes. All other stacks must retreat three hexes. SYRs may only move through hexes that are traversable in regular movement and not occupied by enemy units. If a unit is unable to retreat as required, destroy it.

17.4d Units must make all SYRs locally to the rear and towards Protective or Partly Protective terrain. No “doubling back” is allowed, and the retreat must be in a reasonably straight line. If the retreat carries units into a Protective or Partly Protective hex, even if it is the first hex entered, the owning player may at his discretion end the retreat at that point.

17.4e Retreating units must end their retreat no closer to any spotted enemy units than it began. Thus if the closest spotted enemy unit was two hexes away at the start of the retreat, the retreating unit(s) cannot end their retreat adjacent to any spotted enemy unit.

17.4f Units conducting an SYR generate Movement-based Overwatch Triggers.

17.4g Artillery Barrage markers attack units conducting SYRs that enter or move adjacent to their Attack Zones.

17.4h Units crossing a Minefield hex during an SYR are always attacked, even if there is a breach.
17.4i Units conducting an SYR ignore any further Morale results obtained during an SYR except Surrender. Other units they may happen to be stacked with during an SYR ARE affected by morale results.

17.4j Multiple SYRs. Regular Overwatch Fires may generate Return Overwatch Fires that create additional SYRs against other stacks. In such cases, interrupt the current SYR and execute the new one. Players may want to mark the previous SYR with a Step Loss marker to remember how many hexes are left in the retreat. Theoretically there is no limit to the "chain reaction" of nested SYR results.

17.4k Units eliminated because of step losses incurred as a result of being Paralyzed and conducting an SYR (step 1 above) count toward Battalion Morale.

17.4l If, during the Aircraft & Artillery Phase, a stack receives an SYR morale result as a consequence of an Artillery Mission fire attack, the owning player may, at his option, convert the SYR into a Paralyzed result.

17.5 Paralysis
Paralysis is a more severe Morale effect than Suppression.

17.5a Paralyzed units suffer all the restrictions of Suppressed units [17.3a] and in addition may not:
• fire as part of an SFA or PFA
• fire and make AT Rolls in Overrun combat

17.5b Paralyzed units may:
• fire and make AT Rolls in Assault Combat

17.5c Units in Move Mode that become Paralyzed automatically change to Fire Mode unless mounted in a Carrier. Units mounted on Vehicles dismount and are Paralyzed.

17.5d Except in Assault combat, additional Suppressed or Paralyzed results on a stack that is already Paralyzed have no effect. Paralyzed units which receive an SYR result from a Morale Check while not mounted on a Carrier lose their Paralyzed marker and conduct the SYR. For Morale effects in Assault combat, see 22.0c.

17.5e Paralyzed units may conduct Recovery to become Suppressed instead of Paralyzed [17.7].

17.5f As noted above, Paralyzed units cannot conduct Voluntary SYRs or choose to SYR prior to Assault combat. They may only conduct an Obligatory SYR as a result of a Morale Check or when mounted on Carriers that conduct an SYR.

17.6 Surrender
The Surrender result on the Morale Table represents the complete collapse of resistance. Remove from play any stack that surrenders. Remove all units in such a hex, even if not normally subject to Morale results. In other words, tanks in a hex that surrenders are also destroyed! Units lost by surrendering count towards Battalion Morale and Vehicle Morale.

17.7 Recovery
At the end of each friendly Action Phase, a player may, at his option, have Suppressed and Paralyzed units recover. Paralyzed units become Suppressed, and Suppressed units lose their Suppressed marker. This offers the opponent an Overwatch Trigger [15.1c].

17.7a Apply the following procedure on a stack-by-stack basis:
• Phasing player removes Suppressed markers and changes Paralyzed markers to Suppressed. Use this new status in any ensuing combats.
• The Non-phasing player may now fire at each Recovery Overwatch Trigger. The recovering units must be spotted [7.1]. Remember that units marked with a Fired marker ARE allowed to fire at Recovery Triggers (exception: Mortars). This may result in the recovering units becoming Paralyzed or Suppressed again. Such is life.

17.7b Units in an Artillery Attack Zone may not recover from being Suppressed or Paralyzed.

17.7c No unit is forced to recover from being Suppressed or Paralyzed. It may remain in its current Morale state indefinitely, if desired.

17.7d A stack may only recover once per Action Phase.

17.8 Vehicle Morale
Vehicle units do not have unit Morale values, but Vehicle formations (such as tank battalions) have Vehicle Morale values and may suffer adverse Morale results when their tanks start brewing up. The Vehicle Morale value for each formation begins at zero; the Vehicle Morale value can increase without limit but it can never drop below zero.

17.8a Each time a Vehicle formation suffers a step loss, place a marker on the first open box or circle of the formation’s Vehicle Morale Track. Each time a marker is placed on a square box, add the number in the box (usually 1, sometimes 2 or 3 for small formations) to the formation’s Vehicle Morale. When all boxes on a track are filled, the player must record the formation’s current Vehicle Morale, then remove all the markers from the track. Check recent game errata on the MMP web site for new Morale charts for pre-v4.0 TCS games.

17.8b For each point of Vehicle Morale a formation gains, test the formation’s Morale by rolling one die. If the die roll is less than or equal to the current Vehicle Morale value, the formation fails its Vehicle Morale Check.

17.8c All units in a formation that fails a Vehicle Morale Check are immediately dropped from any implemented Op Sheets, fail their current mission, become Unassigned and must execute Failure Instructions [6.11].

17.8d Vehicle formations recover Morale in the same fashion as Infantry battalions [17.1d]. Roll a single die each full hour: if the roll is less than or equal to the formation’s current Vehicle Morale, reduce the Vehicle Morale by 1. Units on an Attack Op Sheet with an attack mission may not roll to reduce Vehicle Morale.

17.8e Double the amount of Vehicle Morale added when a square box is filled if the formation has already lost at least half of its steps when the new loss is applied.

17.8f Losses from Vehicles not assigned to a Vehicle Morale box (such as HQ or recon tanks) are ignored.

**Example:** A fresh Soviet formation of nine T-34s has a Vehicle Morale Track as shown above. A stack of its Vehicles is fired upon and loses three steps. The owning player places markers in the first and second boxes. Placing a marker in the second box adds one to the formation’s Vehicle Morale, so the player must check Morale. He rolls a 3 and passes. He then places a marker in the third box, another square, which adds another point to Vehicle Morale (now 2). After recording the formation’s current Vehicle Morale, the owning player removes all the markers from the track (since it is filled).
18.0 Artillery

Artillery Missions are fired during the Aircraft & Artillery Phase. During the appropriate sub phase, players place all their Artillery Missions and then roll for each Mission on the Artillery Adjustment Table. After all Artillery Missions have been adjusted, the players execute all attacks, resolving each hex completely before moving to the next hex. Each hex is attacked by one combined Area Fire strength and each Barrage marker attacks each Point target on the Artillery Point Fire Table.

Artillery Missions never need to be plotted in advance, unless required by a specific game. Ignore Called Fire Delays listed in older TCS games.

18.1 General Artillery Rules

18.1a Unless specified otherwise, Artillery can hit targets anywhere on any map.
18.1b A battery can execute one HE, Continuous Fire, Fast Fire or Smoke Mission in a single turn, plus one Illum Mission. The number of guns in a battery has no effect on the battery’s abilities or ammunition consumption [Exception: See 24.6 On-Map Artillery].
18.1c Artillery fires cannot be cancelled after being announced and placed.

18.2 Ammunition

Each scenario gives the ammunition available in the form of “Battery Fires”, which is defined as the quantity of ammunition needed to fire one Mission. Battery Fires are given as HE (High Explosive), Smoke, or Illum (Illumination) types.

Early TCS games (2-01 through 2-05) allotted ammunition differently: divide their HE and Smoke ammunition allotments by 4, but leave their Illum allotments the same.

18.2a Players must keep a running record of their remaining ammunition by type and caliber. Delete used ammunition the moment it is fired. A player can never use more total Battery Fires than he has available—either batteries or ammunition.

18.2b Each Mission can consist of only one ammunition type.
18.2c A Battery Barrage marker costs one Battery Fire of ammunition, whether firing a normal HE Mission or a Continuous Fire Mission. A Battalion Barrage marker (and hence, Mission) requires three Battery Fires of ammunition. Fast Fire Missions cost triple the amount of ammunition for the type of Mission being fired.

18.3 Mission Execution

1. Place New Missions

Each player (in Initiative order) first removes his own Continuous Fire Missions from the previous turn and then places the Barrage or Illum markers of all the Artillery Missions that he wishes to fire, in the target hex(es) of his choice, no more than one Barrage marker per hex. At this point the player must declare each Mission type. Illum missions are not adjusted – they are automatically successful and Artillery Illum markers just placed are now functioning and can be used for adjusting other Missions.

2. Adjustment

In Initiative order, each player rolls for his Missions on the Artillery Adjustment Table in any order desired. Barrage markers without a LOS from a valid observer are automatically a No Shoot.

3. Fire For Effect

Replace successful Smoke Missions with Level 2 Smoke markers. Then conduct all attacks against occupied hexes. Attack every hex in or adjacent to an Attack Zone that contains Area targets and B-targets with the combined total of all Barrage markers (of both players!) that affect the hex, using the Fire Table. Any Point targets in the Attack Zone of a Barrage marker are attacked on the Artillery Point Fire Table. In initiative order, make any Morale Checks or Vehicle Morale Checks only after all attacks have been executed but before Barrage Markers are removed. Each player conducts the attacks against opposing stacks, regardless of whose Artillery is affecting the hex.

4. Remove Barrage Markers

Remove all Barrage markers that are not Continuous Fire Missions from the map.

18.4 Observing

All Missions except Illum Missions require an observer with an unblocked LOS to the target hex. Identify the observing unit for the Mission when it is announced.

18.4a Unless restricted by the game rules, any unit from any organization can observe for any Artillery Mission.
18.4b The observer must be in Fire Mode and have an unblocked LOS to the target hex. The observer cannot be Suppressed or Paralyzed. Any hex within Visibility and LOS of the observer unit may be targeted regardless of the presence or absence of enemy units in or near the target hex.
18.4c Illumination Missions do not need observers and thus can be fired at any hex on the map.

18.5 Mission Types

18.5a HE Missions. This is the most common type of Artillery Mission, dumping several sheaves in rapid succession on a target hex. An HE Mission doubles the printed Fire strength of the Barrage marker. The Attack Zone of a Battery HE Mission is the hex in which the Barrage marker is located. Hexes adjacent to an Attack Zone are attacked at half the strength of the Attack Zone. Barrage markers for HE Missions are removed at the end of the Aircraft & Artillery Phase.

18.5b Battalion Fire Missions. A Battalion Fire Mission is an HE Mission where all batteries from the same artillery battalion fire together (and expend ammo). Being part of a Battalion Fire Mission uses up a battery’s Mission for that turn. The Attack Zone of a Battalion Fire Mission is the target hex and the surrounding six hexes. In older TCS games with generic Barrage markers, when you are determining the Fire strength of the Artillery Attack Zone for a battalion with mixed caliber tubes, use the smallest caliber in the battalion. More recent games have the combined battalion Fire strength printed on each Battalion Fire marker.

18.5c Smoke Missions. An artillery battery (not a battalion) can use Smoke ammunition to fire a Smoke Mission; no special requirements exist, simply use Smoke ammo in place of HE and fire the Mission normally. Roll on the Artillery Adjustment Table; a Smoke Mission is successful on any result other than a No Shoot. A Smoke Mission can scatter if the Artillery Adjustment Table calls for that result. For characteristics of Smoke see 19.0.

18.5d Illum Missions. An artillery battery can use Illum Missions to light the battlefield at night. An Illum Mission does not count as a battery’s Mission for the turn. To fire an Illum Mission, simply place the Illum marker directly into the desired target hex during Subphase (3): Place New Missions.
18.6 Mission modifiers
HE Missions, both battery and battalion, may be modified as below.

18.6a Fast Fire Missions. Only guns of 122mm caliber or smaller can fire a Fast Fire Mission. Declare the Mission (when the marker is placed) to be a Fast Fire Mission. Spend triple the Battery Fires you normally would for the size of Mission desired. Execute the Mission as an HE Mission except that the Fire strength of the Barrage marker is doubled and there is a modifier on the Artillery Point Fire Table. Yes, this means that Fast Fire HE Missions have quadruple (4x) the printed Fire strength of the Barrage marker.

18.6b Continuous Fire Missions. A Continuous Fire Mission spreads the fire out over time rather than trying to plaster the target in one swoop. The Barrage marker remains on the map for the duration of the turn and is removed during the next Aircraft & Artillery Phase. A Continuous Fire Mission consumes one Battery Fire per battery and attacks with the Fire strength printed on the Barrage marker. A Continuous Fire Mission may be combined with a Fast Fire Mission and a Battalion Fire Mission, combining the characteristics of each; a Battalion-sized, Fast Fire, Continuous Fire Mission, therefore, would consume nine Battery Fires of HE ammo and would attack at double the Fire strength printed on the Barrage marker.

Like Smoke, Continuous Fire Barrage markers block LOS.

18.6c Rocket Mission. Rocket Artillery must always scatter from its target hex and does not use the Adjustment Table. Rocket Artillery is always a simple HE Mission; it cannot execute Continuous or Fast Fire Missions. Rocket Artillery attacks only affect the hexes in the Attack Zone—adjacent hexes not in the actual Attack Zone are not affected by Rocket Artillery.

To determine scatter, roll two dice, a red one for direction and a white one for distance. Scatter the Barrage marker the number of hexes equal to the distance roll in the direction indicated by the Scatter Direction diagram on the map. Rocket Artillery never lands directly on its target hex.

Because Rocket Artillery can only be fired as an HE Mission, the doubled Fire strength is printed directly on the Barrage Marker. For the first games in the series, the Rocket Artillery Attack Zones and Area Fire strength are given below. In later games, game-specific rules and/or Barrage markers indicate the Area Fire strength and Attack Zone for Rocket Artillery.

18.7 Adjustment
Adjustment determines whether a Mission scatters from its intended target hex and whether it uses its “Good Shoot” attack values or its “Bad Shoot” attack values. Adjustment is performed on the Artillery Adjustment Table.

After both players have placed all their Barrage markers, each player (in Initiative order) rolls on the Artillery Adjustment Table and places remaining Barrage markers on their Good Shoot or Bad Shoot sides. Scatters are executed at this time too. Attacks are executed only after all barrages have been adjusted.

Rocket Artillery always gives a Good Shoot and always scatters. Do not use the Adjustment Table for Rocket fires [18.6c].

18.7a Artillery Adjustment Table. Find the base Adjustment Value for the firing Artillery. Games published with Version 4.0 rules will usually list this in the scenario information. Otherwise look up the nationality on the Artillery Adjustment Table. Roll two dice (11…66) and cross index the dice roll with the adjusted row of the firing unit.

18.7b No Shoot. Remove the marker from the map and return the ammunition to the player’s pool; nothing happened.

18.7c Scatter. Roll on the Artillery Scatter Table to see where the Mission lands. On a roll of 1–3 the attack scatters 1 hex (roll a die to determine direction). On a roll of 4–5 the attack scatters 2 hexes (again roll a die to determine direction). On a 6, the opposing player places the Mission in any hex desired within 3 hexes (it does not have to scatter in a straight line). All Missions which scatter are executed as Bad Shoots.

18.7d Bad Shoot. Flip the Barrage marker to the Bad Shoot side and use its Bad Shoot value when executing attacks.

18.7e Good Shoot. Leave the Barrage marker with the Good Shoot side up and use its Good Shoot value when executing attacks.

18.8 Artillery Barrage Markers and Fire Resolution
After all fires have been adjusted, players execute their own Smoke Missions and then execute attacks on enemy hexes in Initiative order. Some early TCS games do not come with game-specific Artillery Barrage markers—for those games, use the generic Artillery Barrage markers included with the game, each side taking a different color.

18.8a Immediately after completing Subphase (4) Adjustment, and before any Artillery attacks are executed, players with A-targets or non-vehicle B-targets in Fire Mode currently in or adjacent to an Artillery Attack Zone may, in initiative order, voluntarily "self-suppress" any of these units by placing a Suppressed marker on all eligible units in the hex.

18.8b After all Missions have been resolved, both players remove all Barrage markers that are not Continuous Fire Missions.

18.8c While on the map, Barrage markers automatically attack any unit or stack each time it moves into a hex in or adjacent to their Attack Zone. Such attacks only affect the moving units—units already in the hex have no effect on the Area Fire (i.e., do not add their stacking value) and are not affected by it. Apply any road-movement modifiers if applicable.

18.9 Indirect Fire vs. Point Targets
Artillery rolls on the Artillery Point Fire Table to attack Point targets.

18.9a Only hexes inside the Attack Zone use this table. Point targets adjacent to an Attack Zone are not affected by it.

18.9b Roll two dice for each Point target step (NOT B-type targets!) in each hex for each Barrage marker attacking it. If the modified roll is greater than or equal to the number indicated on the Artillery Point Fire Table, destroy the target. Make this same attack roll (once per target step per hex) whenever a moving Point target enters a Barrage marker’s Attack Zone.

18.9c A “miss” dice roll on the Artillery Point Fire Table has no effect.

18.9d Immediately after Subphase (4) Adjustment, players with Vehicle units currently in the Attack Zone of a Barrage marker may, in initiative order, change any of these Vehicles to Move Mode.
18.10 Overwatch during Artillery & Aircraft Phase

Overwatch Triggers are generated normally during the Aircraft & Artillery Phase.

18.10a Movement-based Overwatch Triggers can occur during the Aircraft & Artillery Phase from units conducting SYRs. Conduct these Overwatch Fires normally according to 15.1a, including Overwatch Return Fire.

18.10b When On-Map Artillery fires an Artillery Mission, this fire offers a Fire-based Overwatch Trigger at one hex containing an On-Map Artillery unit that participated in the Mission. Conduct this Fire-based Overwatch after the Artillery Mission has been executed. If an On-Map Artillery battery is firing a Continuous Fire Mission, and, because of this Overwatch Fire, fewer than two non-Suppressed/non-Paralyzed steps remain, remove the Continuous Fire Barrage marker.

18.10c When an AA gun fires against a Sortie [25.1e], this fire offers a single Fire-based Overwatch Trigger at the hex containing the AA gun that fired. Conduct this Fire-based Overwatch immediately, before the Sortie is executed, although the AA modifier is applied even if the AA gun is eliminated or suffers a morale result [25.2].

19.0 Smoke
Smoke blocks LOS and gives a modifier on some tables.

19.1 Smoke Effects
19.1a A Smoke marker creates an infinitely high LOS obstacle that affects the entire hex and all its hexsides. Any number of Smoke markers can be in one hex at one time, but multiple Smoke markers in the same hex give no additional effect. Units can always see into or out of a hex containing Smoke for any purpose, including observing and Overwatch Trigger spotting. However, units can never see through such a hex.

19.1b Smoke markers may not be placed in an all-water hex. Smoke markers which scatter into an all-water hex are treated as No Shoot.

19.1c Smoke adds +1MP to the cost to enter a hex.

19.2 Smoke Reduction
In each Clean Up Phase, first remove all Level 1 Smoke Barrage markers, then flip all Level 2 Smoke Barrage markers to Level 1 Smoke Barrage markers. At the beginning of his Action Phase, each player removes any Mortar and Infantry Gun Smoke markers that he placed during the previous turn.

19.3 Smoke Markers
Artillery Missions place Smoke markers only when Smoke Missions are fired.

19.3a Each Smoke Mission generates one Level 2 Smoke Barrage marker in the Attack Zone hex.

19.3b Treat all hexes adjacent to a Smoke Barrage marker as also containing a regular Smoke marker.

19.3c A Smoke marker placed by a Mortar or Infantry Gun fills only the hex that the marker itself occupies.

20.0 Movement
Players can move all, some, or none of their units during the Friendly Action Phase. If a moving unit triggers Overwatch Fire [15.0], the players immediately follow the Overwatch Cycle [15.1a] for that Trigger; the unit can continue moving only after the cycle ends.

20.0a Only units in Move Mode can move. Units that move cannot fire an SFA later in the same phase.

20.0b Units can move individually or in stacks. Stacks for movement are formed when units begin moving. A unit or stack must complete its movement before another unit or stack moves (Exception: Vehicle Impulses [20.2]). Units may not voluntarily split off from a stack during movement, though sometimes a stack may be broken up due to combat and morale checks.

20.0c Each unit moves along a contiguous path of hexes (in any direction or set of directions), using its movement allowance to pay the movement point cost of each hex and hexside, according to the game-specific Terrain Effects Chart. A unit cannot expend more movement points than its movement allowance. EXCEPTION: If otherwise able to move, a unit can always spend its entire movement allowance to move one hex in its Action Phase, into non-prohibited terrain, regardless of the Movement Point cost.

20.0d Units cannot save unused movement points from turn to turn or transfer them from unit to unit. The only time that the movement of one friendly unit assists another is when Carriers and Vehicles act as transports.

20.0e Players can move units as they see fit as long as they do not violate either the letter or the spirit of the units’ Op Sheet or Failure Instructions.

20.0f Units marked TO (tow-only) in place of a movement allowance cannot move under their own power and must be towed. If they are required to move by themselves (e.g., an SYR), destroy them instead. These units have an assumed movement allowance of 2 to be used solely for Mode Change and proportioning movement with respect to Carriers.

20.0g Units cannot enter the same hex as enemy units, except in Assault or Overrun combat. Destroy units forced to violate this rule.

20.0h Units can conduct an Assault or Overrun as a stack only if the stack has existed since the beginning of the current Action Phase (not Vehicle Impulse).

20.1 Terrain Effects on Movement
Terrain determines the movement point cost of various hexes and hexside features, as given on the Terrain Effects on Movement Chart. Each game has its own Terrain Effects on Movement Chart. Use the Basic Terrain Effects when playing earlier TCS games without a game-specific chart. The movement point cost of a hex is the entry cost of the hex plus the cost of any hexside feature crossed to enter it.

20.1a Certain map features may not be listed on the Terrain Effects on Movement Chart. These have no effect on movement.

20.1b Elevation Changes. Units which cross a solid contour line—including any solid contour line that runs through the center dot of the hex that the units are entering but excluding any solid contour lines that runs through the center dot of the hex being exited—must pay an additional +1MP for each solid contour line crossed. Using road movement [20.1e] negates this cost. Some TCS games also have broken contour lines (usually representing 10m contour intervals rather than the standard 20m intervals); these are used to determine elevation for LOS purposes [8.2] but do not add to movement costs.

20.1c Multiple Contour Lines. Vehicle, Carrier and B-target Weapons units may not enter a hex containing more than one solid contour line or cross more than one solid contour line when moving to an adjacent hex, except when using road movement [20.1e]. Count any solid contour line running through the center dot of the hex being entered but do not count any solid contour line running through the center dot of the hex being exited.

20.1d BottleNecks. BottleNecks are features such as bridges that channel movement within a hex or hexside. Bridges and Minefield breaches are ALWAYS BottleNecks; each game specifies any additional
Bottleneck features applicable to that game.

Units entering a hex or crossing a hexside with a Bottleneck feature generate an extra Movement-based Overwatch Trigger, in addition to the normal Movement-based Overwatch Trigger that the movement itself generates, so that potentially the opponent could fire at this stack twice, even with the same units if desired. Resolve such 'double' Overwatch Fires in sequence; resolving the first Overwatch Fire completely before conducting the next one.

20.1e Units using Roads and Road-like features (trails, etc.) ignore the movement point costs of the other terrain features and contours in the hex or along the hexside. This only applies to units that are following the road’s path from hex to hex. Moving along a road makes a unit vulnerable to negative modifiers in relation to Spotting [7.1] and Overwatch Fires [15.2]. To avoid these penalties associated with moving on the road, units can move paying the full non-road entry costs of hexes and hexsides and move off-road.

[Exception: units using wheeled or tracked movement may not enter a hex using “off-road” movement if they have to cross more than one solid contour line or enter prohibited terrain to do so, see 20.1c and 20.1f].

20.1f Certain hexes and hexsides are prohibited. No unit can enter a prohibited hex or cross a prohibited hexside unless using a road or road-like feature. Destroy any unit forced to do so.

20.1g If more than one terrain type (each with different MP costs) exists within a hex, apply only the most costly. Add the cost of any hexside features that a unit must cross to enter the hex to the cost of the most expensive terrain in the hex to determine the hex’s total movement point cost.

20.1h Slow Go Terrain and Blocks. Slow Go Terrain and Blocks are no longer used.

20.1i Woods and Forest Features. Forest and woods map symbols sometimes occupy only a part of a hex. A hex is considered to be forest (or woods) for movement and combat if any part of the hex is covered by the symbol. The actual location of the symbol determines its LOS effects [8.1h].

20.2 Vehicle Impulses

While, as a general rule, each unit or stack must complete its movement before proceeding to the next unit/stack, Vehicle units have increased flexibility since they operate at a much higher tempo than do foot units.

20.2a Stacks consisting solely of Vehicles and units mounted on them may split their actions into three Impulses per turn, which can be executed in any order desired. That is, a player may execute one Impulse for a stack, then move some other units and come back to the stack to execute the remaining two Impulses later in the Action Phase. Vehicle units which fire as part of an SFA, however, may not conduct Vehicle Impulses.

20.2b A Vehicle Impulse may consist of movement, changing to Fire Mode, or conducting a PFA. Units conducting a movement Impulse may move with one-third their normal movement allowance. Any remaining fractional movement points may be used in the last Impulse. A Vehicle using Impulses could, for example, move in its first Impulse, change to Fire Mode in its second Impulse, and then fire a PFA to complete its three Impulses in an Action Phase.

20.2c A stack may execute two consecutive movement Impulses at once, using the total of their MPs for both Impulses, rounded normally. Once the MP expenditure exceeds the MPs for one Impulse, a new Impulse is considered to have begun for Overwatch purposes [15.3i].

20.2d Changing to Move Mode does not cost any MPs and may be done in any movement Impulse. Changing to Fire Mode requires an entire Impulse.

20.2e Vehicles using Impulse movement may not move in the same stack with any units not using Impulse movement. Exception: Carried units do not count against this restriction. Dismounted Infantry and Vehicles moving together must begin the Action Phase stacked together and cannot use Vehicle Impulses.

20.2f If Vehicles using Impulse movement move into a hex containing other Vehicles, these Vehicles may form a new stack and move together in another Impulse if desired. In a newly combined Vehicle stack, the number of Impulses expended thus far is that of the Vehicle in the stack which has expended the most Impulses.

21.0 Minefields

Minefields can be used to inhibit enemy movement into an area or to channel the enemy into a kill zone.

21.0a Once emplaced, Minefields attack both sides in the same manner. There are no “friendly” Minefields.

21.0b Units using Foot Movement to enter a Minefield are attacked with an Area Fire strength of 18, modified for stacking only. Roll two dice for each step using Vehicle Movement to enter a Minefield hex, destroying the step on a result of 8+. Minefields only attack units when they enter the Minefield hex, not when they exit it, nor if they simply remain in the hex.

21.0d Do not use the Dummy Minefields found in earlier TCS games.

21.1 Laying Mines

Lay mines before the game begins (if given in the scenario set-up) or whenever a Prepared Defense Op Sheet implements. When laying mines before play begins, the side that sets up first cannot place them in any hex in which enemy units can set up.

When a Prepared Defense Op Sheet implements, the player can place one Minefield for every two Infantry platoons on the Op Sheet (round down). Place Minefields the instant the Op Sheet implements, anywhere within four hexes of the two platoons that generated the Minefield. The hex must also be at least five hexes away from the nearest enemy unit.

21.2 Crossing Minefields

Units pay two additional movement points to enter a Minefield hex. After they undergo any Overwatch Fire triggered by their movement and/or any Artillery attack, the Minefield attacks them as described above [21.0b], after which they may freely exit the hex.

Enemy units occupying Minefield hexes may be assaulted normally, although the assaulting units must undergo an attack by the Minefield when they enter the hex.

21.3 Breaching

Breaches allow units to enter Minefield hexes without being attacked by them. Dismounted Infantry units (only) may attempt to breach a Minefield if they begin their Action Phase in or adjacent to a Minefield hex and the Minefield hex is not occupied by enemy units. Units which attempt to breach a Minefield may not move, change Mode or participate in an SFA or AT Roll.

21.3a Only non-Paralyzed, non-Suppressed, Dismounted Infantry units can breach Minefields. Such a unit must begin the phase in or adjacent to the Minefield hex. It may be in either Move Mode or Fire Mode. If a unit in Fire Mode attempts a breach, it may not conduct an SFA or move during its Action Phase.

21.3b To breach a Minefield, the owning player must declare the breach attempt and move the unit, in its current Mode, into the Minefield hex (if it is not already there). Note that this is a Movement-based Overwatch Trigger, even though the breaching
unit may be in either Move Mode or Fire Mode. Resolve any Overwatch Fires and Artillery attacks normally.

21.3e If the breaching unit is still in the Minefield hex, attack the breaching unit on the 9 column of the Fire Table, applying only the stacking modifier. If the unit still occupies the Minefield hex and is not Suppressed or Paralyzed, it has successfully created a Breach. Place a Minefield Breach marker in the hex.

21.3d Units may enter a breached Minefield from any direction without being attacked by it. However, units may not use the Breach when conducting an SYR (the Minefield attacks them normally). Minefield Breaches are Bottlenecks [20.1d].

22.0 Assault Combat

Assault combat can occur at any time during a player’s Action Phase. Resolve each of these combats in its entirety before moving on. These combats affect only the units within the target hex. Every Assault combat must end with one side or the other alone in the target hex. Assault combats do not require any additional MPs other than the normal cost of entering the target hex. Only one stack may conduct an Assault at a time.

Procedure:

1) The attacker announces the intended Assault and the target hex. The assaulting stack must be in Move Mode and adjacent to the target hex. 
2) The defending units have one Final Overwatch Trigger at the assaulting stack before it enters the target hex. Any unit in the target hex that is not Suppressed or Paralyzed and is capable of firing Overwatch (including units marked Fired) may participate in this Final Overwatch Fire. At his option, the defending player may conduct a Voluntary SYR in lieu of firing Overwatch. All eligible units must participate in this SYR. Suppressed and Paralyzed units are left behind.

3) If the attackers did not receive a Suppressed, Paralyzed or SYR result in step 2, move the assaulting stack into the target hex and remove any Suppressed marker from the defending units in the hex. Do not remove a Paralyzed marker.

4) If the target hex is in or adjacent to an Artillery Attack Zone, execute an attack on the assaulting units. Ignore the defending units in the target hex. Use the terrain modifier of the target hex.
5) If the target hex contains a Minefield it now attacks the assaulting stack. Minefield Breaches cannot be used by assaulting stacks. Use the terrain of the target hex for any Morale Table modifiers.

If during steps 2, 4 or 5 the attacker receives a Suppressed, Paralyzed or SYR result, or is eliminated, the Assault ends and the attackers remain in, or are returned to, their starting hex in their current Mode. If an SYR occurs during step 4 or 5, it starts from the hex being assaulted. If all defending units retreated in step 2, skip to step 7.

6) Determine fire order: If NONE of the units of one side are Suppressed or Paralyzed and if ANY unit of the other side is Suppressed or Paralyzed, the side with no Suppressed or Paralyzed units fires first. Otherwise, the fires are conducted simultaneously. Infantry units may also make AT Rolls. P-firers may participate using either Point Fire or Area Fire, but not both. Conduct any Morale Checks or Vehicle Morale Checks caused by a fire immediately after that fire has been resolved. If the fires were conducted simultaneously, conduct any Morale Checks or Vehicle Morale Checks after all the fires have been resolved, with the assaulting player checking morale first—if his units are eliminated or execute an SYR, the defending stack does not need to conduct a Morale Check, although he may still have to conduct a Vehicle Morale Check.

7) Mounted units (either side) may dismount and any units in Move Mode (either side) may change to Fire Mode, if desired. The assaulting player decides first.

Conduct further rounds of Assault combat, repeating steps 6 and 7 above as many times as necessary until one side or the other is eliminated or conducts an SYR, leaving only one unit in the target hex.

22.0a Only units in Move Mode that have enough MPs left to enter the target hex may attack in Assault combat.
22.0b Infantry, Carrier, and Vehicle units may fire in Assault combat whether in Move Mode or Fire Mode. Weapons units must be in Fire Mode to fire. Mortar units (regardless of Mode) cannot fire in Assault combat.
22.0c Units which become Suppressed during a round of Assault combat and which receive another Suppressed result when checking Morale in a later round of that Assault combat must either execute an SYR or lose one step from the largest unit as per 10.0f, at the owning player’s discretion. Paralyzed units which receive a Suppressed result during a round of Assault combat must conduct an SYR [losing half their steps, rounded up; see 17.4]. If Paralyzed units receive another Paralyzed result they immediately Surrender [17.6].
22.0d The phasing player can Assault a hex as many times as he has the units to do so. He can make these Assaults in any order with respect to other actions and fires.
22.0e Area Fires in Assault combat affect only enemy units. Calculate the stacking modifier for each side separately.
22.0f Ignore any negative shifts on the Fire Table that apply to both sides equally (such as Night, both sides Suppressed, Smoke, etc.).
22.0g Terrain. If both sides have negative terrain modifiers, cancel enough shifts for both sides to bring the smaller negative modifier to 0. For instance, in a Protective terrain hex the assaulting stack is in Fire Mode (-3 shift) and the defender is Dug-In (-5 shift). The smaller negative modifier is the -3 for Fire Mode, so cancel three negative shifts for both sides. There is now no shift for terrain against the attacker and a -2 shift against the defender (originally -5, now -2).
22.0h In Assault combat units can conduct both AT Rolls and Area Fires in any order desired. All Area Fires must be consolidated into one fire.
22.0i After resolving an Assault combat, the attacking units may conduct no further actions (movement, PFAs, SFAs). They may observe for Mortars and may fire Overwatch if eligible.
22.0j Unassigned units may not initiate Assaults [6.3a].
22.0k Vehicle units from a formation which fails its Vehicle Morale Check during Assault combat must immediately conduct an SYR. If other friendly units still remain in the hex, the Assault combat continues normally (after conducting any Overwatch Fire against the retreating unit or units).
hex may conduct an Overrun. Mounted Infantry units may fire in Overruns.

23.0b Hexes which cost the overrunning stack more than 3 MPs to enter cannot be overrun. Vehicles and Carriers may use road movement to conduct an Overrun. Units using Integrated Carriers with Wheeled or Tracked movement may conduct Overruns if desired.

23.0c In Overrun combat, use the terrain of the target hex for combat purposes. Terrain modifiers are used normally on the Fire Table, unlike in regular Assault combat.

23.0d Any number of Overruns can be conducted against a single target hex in one phase.

23.0e Paralyzed units may NOT fire in Overrun combat.

23.0f Defending units may NOT voluntarily conduct an SYR during step 2 of the Overrun in lieu of firing Final Overwatch.

23.0g Defending units do NOT remove any Suppressed markers.

23.0h After resolving an Overrun combat, the phasing player may continue to move the units which made the Overrun (if they are still able to do so) with any MPs they have remaining.

23.0i Exiting an Overrun hex generates a Movement-based Overwatch Trigger.

23.0j Units using Vehicle Movement Impulses may conduct Overruns by executing consecutive movement impulses if they do not have enough MPs in a single impulse [20.2c].

23.0k If a stack has enough MPs left, it may leave one Overrun combat and immediately conduct another Overrun in the next hex. Such an Overrun does not offer a Movement-based Overwatch Trigger.

23.0l Unassigned units may not initiate Overruns [6.3a].

24.0 Special Units

24.1 Carriers

Carriers are units designed to transport other units. Trucks, wagons, and half-tracks are the usual Carriers. Each Carrier unit represents the number of vehicles required to make up a platoon-sized portage capacity. Carrier units have two steps when at full strength. Carriers usually have a white box around their unit type to designate their status as Carriers.

Consider a unit mounted (or towed) if the Carrier’s counter is on top of it. While a passenger, a unit enjoys MP’s in proportion to the Carrier’s MA. For example, if a Carrier with a MA of 18 MPs expends a third (6 MPs), the transported unit with a movement allowance of 6 MPs expends that fraction also (2 MPs).

For simplicity, “mounting” refers to all the operations of mounting, dismounting, hitching, or unhitching.

24.1a All full-strength Carriers can carry up to five steps or tow up to two towable units (AT guns, On-Map Artillery, Tow-Only Mortars, and Infantry Guns). Only Area target units may be carried. Carriers which have lost one step may carry three steps or tow one towable unit. Units with Integrated Carriers may not be transported by other Carriers. A Carrier unit cannot carry Area target steps and tow a gun simultaneously.

24.1b Mounting costs the Carrier 3 MPs and the mounting unit 1 MP. Tow-only units have an assumed MA of two MPs for this purpose. Units must be in Move Mode to mount and remain so while mounted. Suppressed or Paralyzed units cannot voluntarily mount or dismount.

24.1c Mounted Infantry can fire in Assault combat and Overrun. No other mounted units may fire.

24.1d If a Carrier unit is destroyed, automatically destroy any units it was carrying or towing. If it suffers a step loss but still survived, the owner must eliminate the corresponding number of carried steps [10.0g]. These losses do not trigger a morale check.

24.1e Vehicles as Carriers. Players can use tanks and other vehicles as makeshift Carriers. Each Vehicle step with a P-defense strength of three or more can carry two Area target steps. Each Vehicle step with a P-defense of two may carry one Area target step. A Vehicle with a defense strength of one may not act as a Carrier. Vehicles may not tow guns. Vehicles in a stack may add their capacity together to carry multi-step units.

Units carried by Vehicles are treated normally for combat, (i.e., 10.0f and 11.3e do not apply). Carried units must remain in Move Mode [24.1b]. For losses, see 10.0g.

24.2 Integrated Carriers

In more recent TCS games many units have Integrated Carriers (i.e., the transport is organic to the counter).

24.2a When in Move Mode, treat units with Integrated Carriers for all purposes as being carried by a notional 1-step Carrier of the appropriate target type (2-step Carrier if an Area Target with 3+ steps). Notional Carrier steps are treated as in 24.1d. if destroyed in combat. Notional steps are counted for stacking in the same manner as regular Carriers.

24.2b Units with two movement types can choose between Foot Movement and Vehicle Movement. The Foot MA is given on the counter in white and the Vehicle MA next to it (black for Wheeled, yellow for Tracked).

24.2c When units with Foot and Vehicle MAs enter Move Mode, they must declare which type of movement they are using. Only one type of movement can be used per phase. This type remains valid for all game purposes until the units enter Fire Mode or declare a different type of movement during a succeeding Action Phase.

24.2d Units with Integrated Carriers expend 1/2 their movement allowance to change Mode.

24.2e Non-MG Weapons Units with Integrated Carriers may only conduct an SYR if they are in Move Mode and are using Vehicle Movement instead of Foot Movement.

24.3 Mortars

All Mortar units have two steps and are subject to Morale effects. They may make indirect fire attacks using other units to observe for them.

24.3a Mortars do not require an unblocked LOS to the target from their own hex. They must, however, have an appropriate observer from the same next-higher-echelon as the mortar itself—the same company (in the case of company mortars), same battalion (in the case of battalion mortar platoons or heavy weapons companies), or the same regiment (in the case of regimental heavy weapons companies or battalions). Suppressed and Paralyzed units cannot observe for Mortars. Mode has no effect on a unit’s ability to observe for Mortars.

24.3b Mortars can fire only once per Action Phase and once during the Aircraft & Artillery Phase in response to an Overwatch Trigger. Mortars without Fired markers can fire Overwatch Fires provided the observer can spot the Trigger. Mortars may not fire at range zero (i.e., in Assault or Overrun combat).

24.3c In lieu of an SFA, a 3”/80mm or larger Mortar can fire one Smoke or Illum marker. For Illum, choose any hex within range (an observer is not required). Smoke requires an appropriate observer. Identify the target hex, mark the Mortar as Fired, and roll on the Mortar and Infantry Gun Smoke Table. Smoke and Illum cannot be fired in response to an Overwatch Trigger.

24.3d Mortars can move by themselves or be carried by Carriers. Large Mortars
(marked as Tow Only) cannot move by themselves and must be towed.

24.3e Negative modifiers from the Fire Table for Artillery Attack Zone and Smoke apply both to the observer (if not the Mortar unit itself) as well as to any firing Mortar unit(s).

24.4 Anti-Tank (AT) Guns

AT Guns are B-0 targets and P-firers with a Morale of 3. When firing Area Fires, they use one-half their Point Fire rating, rounding up. Always add all AT Gun fire first, then round.

24.5 Infantry Guns

Infantry Guns are B-0 targets and High-Trajectory A-firers with a Morale of 3.

24.5a In lieu of an SFA, an Infantry Gun of 100mm or larger can fire one Smoke or Illum marker. For Illum, choose any hex within range (LOS is not required), place the Illum marker and mark the IG as Fired. Smoke requires an appropriate LOS and must be within range of the Infantry Gun. Identify the target hex, mark the Infantry Gun as Fired, and roll on the Mortar and Infantry Gun Smoke Table. Smoke and Illum cannot be fired in response to an Overwatch Trigger. Use Mortar Smoke and Illum markers to indicate Infantry Gun Smoke and Illum.

24.5b Infantry Guns that are 100mm or larger may attack Point targets on the Artillery Point Fire Table [18.9b]. When firing at hexes containing Point targets, roll once on the Artillery Point Fire Table for each participating Infantry Gun of 100mm or larger. IGs firing in this fashion have a maximum range of 14 hexes, and suffer a -1 modifier on the Artillery Point Fire Table for targets at range 8–14.

24.6 On-Map Artillery

Most games will restrict artillery to being off-map, but sometimes the situation will require these units to be on the map. On-Map Artillery functions like its off-map cousin in all ways except the following:

24.6a On-Map Artillery units are B-0 targets and High-Trajectory A-firers with a Morale of 6. Depending on the game, an On-Map Artillery Battery may be represented by several single-step gun counters (i.e., one gun per counter) or by one or more multi-step gun counters.

24.6b When firing direct, On-Map Artillery units are treated as Infantry Guns and may conduct SFAs and Overwatch Fires normally. A single-step On-Map Artillery unit is handled exactly like an Infantry Gun [24.5], except that it cannot fire Smoke or Illum [24.6d]. For a multi-step gun counter, all steps in the counter must fire together with an Area Fire strength equal to the number of steps remaining multiplied by the Fire strength printed on the counter. If no ratings are provided on the counters (as in older TCS games), use the following Area Fire strengths:

<table>
<thead>
<tr>
<th>Range</th>
<th>Fire Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 100mm</td>
<td>4 [Range 14]</td>
</tr>
<tr>
<td>100–130mm</td>
<td>6 [Range 24]</td>
</tr>
<tr>
<td>131mm+</td>
<td>8 [Range 40]</td>
</tr>
</tbody>
</table>

24.6c If any gun of a battery fires direct during a phase, expend a total of one Battery Fire of ammunition no matter how many (or few) guns of the battery fire or how much (or little) they fire.

24.6d On-Map Artillery units can only fire Smoke or Illum as part of an Artillery Mission.

24.6e To fire a regular Artillery Mission, an On-Map Artillery Battery must have a minimum of two guns/steps remaining in play, and these guns/steps must be in Fire Mode, may not be marked with a Fired marker, and may not be Suppressed or Paralyzed. It need not be assigned to an Op Sheet to fire Artillery Missions.

24.6f After an On-Map Artillery Battery has fired an Artillery Mission, even a No-Shoot, mark the Battery counter (or each unit in the Battery) with a Fired marker. On-Map guns firing Artillery Missions, even No-Shoots, generate Fire-based Overwatch Triggers normally, even though Artillery fires do not occur during the normal Action Phases. Execute these Overwatch Fires after the Artillery attack has been executed. If Overwatch Fires bring the total number of non-Suppressed/non-Paralyzed steps below two, remove any Continuous Fire Barrage markers associated with the artillery battery immediately [18.10b].

24.7 AA Guns

AA Guns are marked as AA on the counter. While the majority of AA Guns are A-firers, some are P-firers, such as the German 88mm Flak. AA Guns are always Low-Trajectory fire [11.2b]. AA Guns may also affect Aircraft Sorties [25.0]. Like AT guns and Infantry Guns, AA Guns are B-0 targets with a Morale of 3.

25.0 Aircraft

When aircraft are available, they are given as Sorties. A Sortie is the attack of one aircraft against one target unit or hex. In earlier TCS games using “runs” treat each run for an aircraft as a separate Sortie.

25.1 Sorties

Conduct Sorties in the first subphase of each player’s Aircraft & Artillery Phase. The player places all Sortie attacks at once and then executes each Sortie separately, in any order desired.

25.1a On any turn in which one or more Sorties are available, the player uses them all in the Aircraft Fire Phase. He picks each target hex. There is no limit to the number of Sorties which can be placed in a hex.

25.1b Sorties use their Area Fire rating to make an Area Fire on the hex. Sortie attacks are considered spotted High-Trajectory fire and use modifiers for Terrain, Target and Stacking on the Fire Table. The Sortie’s Point ability is a die roll to kill Point targets or B-targets. These abilities cannot be combined in one Sortie. The player must announce which ability the Sortie is to use before he resolves the attack and forfeits the other ability when he does so.

25.1c The Point Kill roll requires a roll of two dice. Pick one target and modify the roll according to the Sortie Point Fire Modifications Chart. If the modified roll is greater than or equal to the kill number, destroy the target. Any other roll has no effect.

25.1d Vehicles destroyed by Sortie attacks add to Vehicle Morale, if applicable.

25.1e AA Guns. The non-phasing player may commit an unfired AA Gun to defend target hexes from Sorties. Such an AA Gun must be in Fire Mode and not marked as Fired, Suppressed or Paralyzed. Declare that the AA gun is firing against the Sortie and mark it with a Fired marker. AA firing offers a single Fire-based Overwatch Trigger. Only one AA Gun may be committed to any one Sortie. AA Guns must be able to trace LOS to the hex they are defending and may fire up to their printed range (if A-firer) or their long range (if P-firer). Unassigned AA guns may conduct AA fire normally.

25.2 Aircraft Sortie Resolution

Resolve Sorties as follows:

- Place all the side’s available Sorties for the turn.
For each Sortie, follow the remaining steps after placement:
- Identify the Sortie to be resolved and its type
- Non-phasing player identifies any AA Gun firing. Immediately place a Fired marker on this AA Gun and resolve any Fire-based Overwatch against it. Apply the modifier on the Sortie Success Table even if the AA Gun is eliminated or suffers a morale result.
- Identify an observer if desired: any friendly unit within six hexes and LOS of the target hex, in Fire Mode, and neither Suppressed nor Paralyzed can be the observer. Observers are not mandatory but they prevent a negative modifier on the Sortie Success Table.
- Roll one die on the Sortie Success Table and apply any modifiers. If the roll is equal to or greater than the value indicated on the table, execute the attack. Otherwise, the Sortie is expended, but no attack is made.
- Execute the attack, if any. If more than one Sortie is directed against a hex, each must be resolved independently.

Note: “Full woods hex” means that the target hex is completely filled with woods or forest (not orchard) and does not have any road or trail in it. Targets in such hexes are extremely difficult to spot from the air.

### 26.0 Night

The difficulty of military operations at night is impossible to describe adequately.

Dusk, Dusk, and Twilight are the turns just before Night begins and just after Night ends. Dawn, Dusk, and Twilight turns do not qualify as either Night or Daytime; during these turns the following rules modifications are in effect:

1) Maximum Visibility is limited as shown on the Turn Record Track
2) Night rules and modifiers do not apply
3) Sorties cannot be used
4) Illum cannot be used

### 26.1 Night Effects

26.1a Weighted turns accrue at a maximum base rate of two per turn (six for Vehicle Op Sheets).

26.1b Night Missions must be tightly controlled by their Op Sheets. Players must use much more precise routes and other control measures.

26.1c Visibility at night is two hexes if not otherwise indicated in the game rules.

26.1d Each night turn represents a full hour. Battalion Morale recovery attempts occur only on even Night turns (2000, 2200, 2400, etc.).

26.1e Morale Checks at night suffer additional modifiers. Illuminated areas do not negate these.

26.1f Area Fires, Point Fires, and AT Rolls are modified at night.

26.1g Sorties cannot be used at night.

### 26.2 Illumination (Illum)

Illum rounds provide battlefield illumination.

- **26.2a** Each Illum Battery Fire and each Illum Mortar or Infantry Gun shot generates one Illum marker.

- **26.2b** Each Artillery Illum marker generates a lighted area with a five hex radius around its location. This lighted area acts as a spot of daylight and reduces the night effects on the Fire Table, but not on the Morale Table. Mortar and Infantry Gun Illum markers have a radius of three hexes. During Dawn, Dusk, and Twilight turns, Illum markers cannot be used.

- **26.2c** Remove all Artillery Illum markers on the map during each Clean Up Phase. Each player removes his own Mortar and Infantry Gun Illum markers from the previous turn at the very beginning of his Action Phase.

- **26.2d** Units in an illuminated hex can spot, observe or fire at illuminated hexes at any range (subject to other rules), but can only spot, observe or fire at non-illuminated hexes if they are adjacent to them.

- **26.2e** Illumination reduces only the night effects on the Fire Table, but still may affect non-illuminated hexes normally (subject to other rules).

- **26.2f** Illum-lighted areas do not negate these.

### 27.0 Scenario Set-Up

Each game’s specific rules include instructions for setting up the game. Unless otherwise noted, the following conventions are used:

#### 27.1 Set-Up notes

- **27.1a** “w/ X” means set up the unit at or within X hexes of the listed hex.

- **27.1b** Units can set up in any Mode and can be mounted or dismounted.

- **27.1c** Units can never start the game overstacked unless specifically allowed in the game rules.

- **27.1d** Unless noted otherwise, units start at full strength.

- **27.1e** Where given, spread losses as equally as possible within the listed organization. If losses are by type, eliminate the losses from that type.

- **27.1f** Historical orders are for informational purposes only. The player is free to create his Op Sheets before the game begins. All Op Sheets created before the game start play implemented. Unless the scenario requires otherwise, these can be of any type. Players cannot begin the game with unimplemented Op Sheets—these must be drawn up no earlier than turn one.

#### 27.2 Reinforcements

- **27.2a** At the beginning of a player’s Action Phase, place reinforcements next to the map adjacent to their entry area. Reinforcements enter the map by paying MPs to enter the first hex at the map’s edge and continuing from there. If there are enemy units, Artillery Attack Zones or Minefields on or adjacent to the assigned entry area hexes, then reinforcements may shift their entry area to anywhere along the map edge within 10 hexes of that assigned entry area.

- **27.2b** Reinforcements may not enter the map unless they are on an Implemented Op Sheet or executing Preliminary Instructons.

- **27.2c** Unless otherwise noted, all reinforcing units enter with their full movement allowances. They are not “lined up” behind each other off the map.

- **27.2d** Op Sheets drawn up for reinforcements before the game are automatically implemented.

- **27.2e** Reinforcements may be assigned to an implemented Op Sheet at the beginning of each game or be assigned to an Op Sheet and accumulate weighted turns normally during the course of the game.

- **27.2f** Unless otherwise noted, reinforcements do not have to enter the map on their assigned turn of entry. They may enter on a later turn. Units of a reinforcement group do not all have to enter on the same turn.

### 27.3 Playing Solitaire

You can easily enjoy this game series solitaire. While such playings will lack the tension of not knowing the enemy’s plan, this can be made up for by rigidly following the orders you give as intended at the time you wrote them.

Playing solitaire is best using the Command system. You do not have to “forget” what the enemy is doing, etc. Play each side (orders and all) the best way you can. Or write up multiple Op Sheets for each side at the beginning and choose one set randomly. During game play, do not write Op Sheets that directly counter the other side’s intentions not yet shown by movements on the map. If you do, you will only destroy your own fun. Remember, the Command system was not designed as a limited intelligence tool, but as a limitation on responsiveness.
Play out the Op Sheets you’ve made up as you intended when you wrote them. Make no modifications to them because of changing circumstances. Assign any Op Sheets you want and force yourself to live with the consequences. The result will be a game that tells you its battle’s story, and you can enjoy the fun. Playing solitary with a scenario’s optional historical orders can yield insights into how the actual commanders fought the battle.

Version 4.01 Developer’s Notes

Version 4.0 has become the standard for TCS now and, as such, a history lesson going back to version 3.1 and 3.0 is not necessary. Compared to the momentous changes moving from 3.1 to 4.0, the modifications here are minor, and involve mainly tweaks and the addition of some response to Artillery (vehicles changing to Move Mode, Area Targets being able to self-suppress).

Tactics 101

When faced with the initial complexity of the Tactical Combat Series, new players naturally have questions about how to approach this system. Though the rule set is long, it plays smoothly once players get a feel for the rhythm of a turn. But how should one play the TCS? I’ll offer my thoughts here as a long-time TCS player in the hope that new players (and perhaps even experienced ones!) will pick up a trick or two that will be useful for their play.

Like many wargames, the key to winning most scenarios in TCS games is to eliminate the opposing units while keeping your own alive. This is done using direct fire weapons, Artillery, aircraft Sorties, and Assault combat. When you’re the active player you can initiate direct fires (SFAs and PFAs) in your Action Phase, and you can respond to enemy activity (Overwatch) during either Action Phase. To eliminate the enemy, you need to spot them and then create local fire superiority, where you can bring more firepower to bear than your opponent and thus create a favorable exchange rate.

At the core, then, is a triad of combat activities that Bob Leonhard summed up, in his book Fighting by Minutes, as Move, Strike, and Protect. The purpose of all three activities is to create local superiority by using your strengths against your enemy’s weaknesses (termed dislocation in literature on Maneuver Warfare and its offshoots). Sometimes these three activities can be combined, but generally any action you take in the TCS will have only one of these three activities at its core. And by emphasizing one activity, the other activities generally cannot be undertaken, or at least not at maximum efficiency. Let’s look now at several key actions you can take in the TCS through this lens of Move, Strike and Protect.

Op Sheets: The true core of the TCS is the Op Sheet system that Dean Essig developed. This provides a wonderful mechanism that allows you the opportunity to position your units favorably without your opponent being able to respond quickly. In my experience, most TCS players do not use Op Sheets to their full advantage. The tradition in most typical wargames is to move your units into contact and then start rolling dice. Don’t do this! Discipline yourself to have all your units on two Op Sheets at all times, one of which is gaining Weighted Turns for a future operation. Do not be content to sit passively in place on the defense and wait for your opponent. Consider how you could bring about local superiority by moving your formations quickly and decisively to strike before your opponent can react. Learn to “dance like a butterfly” to the greatest extent possible, recognizing that a Prep Rating of 7 may slow you down. The basic idea is that if you do not have your units on two Op Sheets and you are not actively trying to outmaneuver or outfox your opponent (e.g., through feints), you are not playing to your best ability.

Fire superiority: Once you have positioned your forces favorably and are in contact with your opponent, you need to destroy the opposing forces through a careful balance of (tactical) Movement, Striking at your opponent’s forces and Protection of your own forces. Let’s look briefly at some of the tools that the TCS provides to do this.

SFAs: The Suppressive Fire Action is a foundational tool of the TCS which has two main purposes: (1) Striking enemy units through direct Area Fires, and (2) allowing your units to Move tactically by suppressing enemy stacks (to prevent them from firing Overwatch). Against Dug-in troops, an SFA is not a very effective Striking tool, and you will need a lot of time to suppress enemy stacks and attrit them, particularly if they have high morale. This is different from many other tactical games, so do not rely solely on SFAs to get the job done. The effectiveness of SFAs is greatly enhanced by crossfires, so you should always seek to create a crossfire situation, which is, of course, a tactic of choice for attacking forces because it largely neutralizes the Dug-in modifiers. Vehicles are great for creating crossfires, because they are mobile and immune to Area Fires. However, performing an SFA results in marking all your firing units as Fired, which means they are much easier to spot (i.e., are more vulnerable, reducing Protection), and they cannot fire Overwatch except at range 1, which can greatly enhance your opponent’s mobility. Make sure you leave units unfired if you need to interdict enemy movements or discourage enemy fires.

PFAs: Point Fire Actions are used to Strike and destroy enemy vehicles, carriers and guns. Tanks are great at this, because they can mass quickly to create local fire superiority, and take out enemy Point targets quickly. One problem, however, is spotting: if enemy guns are Dug-in in Protective terrain, your Point firers may not be able to fire since PFAs can only be used against spotted enemy units.

Artillery: Artillery is definitely the Queen of the Battlefield in TCS, which accurately reflects the situation in most WWII battles. Artillery firepower can be massed quickly (one observer can usually call in multiple Battery fires) and this massing of firepower to Strike does not compromise Protection. Usually when you group units, they become more vulnerable because of stacking and bunching, making them particularly susceptible to Artillery (which is an area effect weapon). But massing Artillery firepower does not add to the stacking or the density of your units, so you can spread out your defending units to give them better Protection while still Striking hard with your Artillery. Artillery is also quite useful in suppressing enemy units to allow you greater tactical Movement free of Overwatch. One great effect of Artillery is that it forces your opponent to disperse in order to protect his units, which, in turn, makes it is harder for them to concentrate firepower and Strike.

Overwatch: One key tool to degrade enemy firepower and maneuver is Overwatch. Whenever your forces are in contact, make sure that you provide Protection through proper Overwatch capability for your maneuvering and firing units. MGs are great for this purpose because their have a favorable range modifier and can both conduct SFAs AND fire Overwatch without limit during a turn. Set up MG stacks to support assaults or protect your flanks against enemy Area targets. Always have an unsuppressed stack to fire OW to protect your moving and firing units, or at least make the enemy pay if they fire at you. Stacks of tanks can be good for this purpose, as long as they do not make themselves vulnerable to enemy Artillery.

Assault Combat: Veteran TCS players use Assaula assal sparingly, because they are quite risky and are generally only useful
against very weak stacks that have been Suppressed. While Assaults speed up the process of eliminating enemy stacks (particularly in good defensive terrain), the attacking units are also vulnerable to heavy losses. Assaults work best against Suppressed, weak stacks with low fire strength and relatively bad morale. When these conditions are met, feel free to Assaul, but assaulting in other situations is usually asking for grief. When you do Assault, be sure to (1) Suppress the enemy stack(s) first via SFA or Artillery fires; (2) neutralize supporting enemy stacks via SFA, Artillery, or Smoke; and (3) go in with troops with good morale. Tanks can help but you may well lose a few to AT Rolls, so be careful. If the enemy stack does not contain P-fencers or enemy Infantry, then it is extremely vulnerable to vehicles and an Assault with vehicles (or even an Overrun) makes great sense.

**Spotting:** Learn the distances at which the enemy can spot your units (and vice versa) since this is a key aspect to maneuver. You cannot fire Overwatch at a stack you have not spotted. In addition, unsighted units are much harder to damage with SFAs (by a factor of nearly 50%). This makes high-morale Infantry Dug-in in Protective terrain extremely difficult to dislodge—you usually have to move adjacent and spend many turns firing. Being close to the enemy, of course, limits the usefulness of your Artillery.

**Mortars:** Mortars are small, flexible artillery platforms and can do a lot of things (Smoke, Illum, SFAs, Overwatch). Generally it is best to keep your battalion mortar units stacked and hidden away in a town or forest hex to prevent them being targeted. Stacking three 81mm mortars allows you to use them all for Overwatch, and an OW fire with fire strength 12 against a moving Area Target can do some damage (and does not open you to return OW, very important).

**Smoke:** Smoke can create local fire superiority by blocking fires from enemy units. Use it liberally, both to isolate the battlefield and to protect your own units from fires (or observation for Artillery). Mortar smoke is less useful but can be handy, particularly when enemy units are unsighted and well-protected (so that Area Fires are not effective). Try to end each game with no Smoke ammo left, which means you were using it aggressively and liberally.

**Digging in:** Dug-in modifiers are excellent Protection for your troops, shielding them from damage and giving them better observation and morale. But digging in has a price: no mobility. Do NOT be afraid to give up the Protection of Dug-in modifiers to gain advantages through other means. One of the key psychological disadvantages of units being Dug-in is that players are generally loathe to move them. Use this to your advantage—screen or ignore Dug-in troops and hit the enemy elsewhere. He then has the choice of leaving his Dug-in position to meet the new threat, or sitting tight and letting you have local fire superiority elsewhere. You can even try to be clever and feint at another point, hoping to convince your opponent to respond with his Dug-in troops, thus removing their defensive benefits. The basic point is to not let yourself become entrapped by being Dug-in: be ready to Move and Strike . . . and you have another Prep Defense Op Sheet gaining Weighted Turns anyway, right?

**Fire Table:** One key thing to know about the Fire Table is that it is not linear. That is, it takes about 4x the Fire Strength to double enemy losses. For column shifts, 3 shifts will double (or halve) losses, and 5 shifts will increase (or cut) losses by a factor of 4. This means that, to inflict losses most efficiently, players should spread their fires out and not go for the "death ray" killer SFA on one hex. By the same token, it also means that well-protected troops (unsighted and Dug-in in Protective terrain) are shielded from nearly 90% of incoming damage.

**Putting it all Together:** As you can see, the interplay between unit types and capabilities (tanks, infantry, weapons units, artillery) and the benefits to be gained tactically (terrain, smoke, unit posture, dug-in status, stacking vehicles with infantry, etc.) make for very rich and complicated interactions. This is an accurate representation of combined arms, using the unique strengths of each unit type to better Move, Strike and Protect. Be ruthless in applying mismatches against your opponent. Are his units concentrated to provide better firepower (Striking)? Hammer him by Striking with your Artillery. Does he have masses of tanks (Striking)? Dig your infantry into Protective terrain, use Smoke to shield yourself from fires, and keep your AT guns from firing until the last minute so they remain immune to Point Fires because they are unsighted. Protect your weapons units from enemy tanks by stacking them with Infantry and/ or AT guns. Never leave your troops sitting around if you can be doing something more useful. Always keep working on new Op Sheets because that habit will make you more focused and will train you to look for, or create, new opportunities at all times. During each turn, consider the advantages of concentrating your Striking forces, but also the disadvantages of decreased Protection. Try to avoid stacking more than seven steps in a hex without very good reason, as this is generally the best balance between Striking and Protection.

A key habit to learn when you are playing the TCS is to think several game hours ahead and try to shape the battlefield dispositions to your advantage, gaining local fire superiority where you can and preventing the enemy from doing the same to you. You will find that the TCS system provides wonderful incentives for clever and solid play that are not found in other systems, and will be instructive in the nature of combined-arms fighting with WWII-type armies. Your work will be rewarded with a rich gaming experience where each battle provides a unique narrative that, in nearly every case, has a good ring of historical authenticity. As long as you are constantly striving to learn and are not content to simply send your forces straight towards the enemy and start rolling dice, you will become a genuine, and perhaps even feared, TCS player.

**Resources for learning the TCS:**

Multiman-Publishing TCS page: http://www.gamersarchive.net/thegamers/archive/tcs.htm
You'll find errata, articles on Op Sheets, Tactical Problems, and conversion information to bring all TCS games to 4.01 standards.

www.consimworld.com
This is the main forum where TCS questions are answered and discussion occurs. The crew on CSW has been very instrumental in the development of TCS to this point.

GD '40 replay: http://www.gamersarchive.net/thegamers/archive/tcs/lee/gd40/ This is a replay of a GD '40 game done many years back. It is especially valuable for discussion of Op Sheets and planning.

GD '42 replay: http://gd42replay.wordpress.com/
This is a more recent replay that again will provide a good feel for planning and discussion of objectives for this classic TCS game.