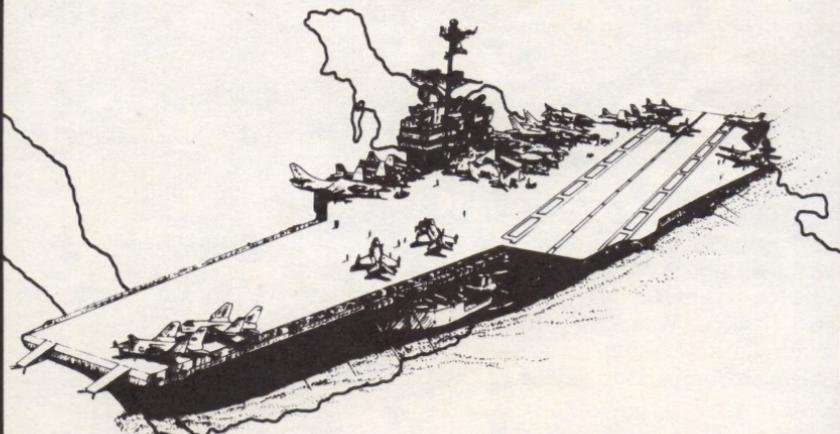


GULF STRIKE®

INSTRUCTION MANUAL



FOR:
Atari® Home Computers, 48K
Disk Drive & Joystick required

INSTRUCTION MANUAL

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GULF STRIKE[®]

INTRODUCTION

Current US grand strategy alternately focuses on Europe and the Middle East. Whereas Europe's security is the responsibility of the NATO alliance, the Middle East—since the fall of the Shah of Iran—has lacked the stabilizing influence of any remotely corresponding organization.

In the wake of the Ayatollah Khomeini's ascension, the US has been relegated to the role of runner-up in the superpower race to establish and maintain operating bases in the volatile Persian Gulf area. The progress of the current Soviet hegemony, pointedly illustrated in the invasion of Afghanistan, has spurred a US effort to develop the Rapid Deployment Force capability. *Gulf Strike* depicts the danger-fraught projection of this presence in the face of logistical constraints, hostile military forces, and an uncertain mosaic of shifting political animosities.

The long-standing lack of simulations dealing with this area of the world is disconcerting. I have felt for some time that the true test of modern doctrines is likely to occur in the Persian Gulf. As a result of virtually any misstep in this precariously balanced region, the naval might and custom-tailored Rapid Deployment Joint Task Force of the US could well run afoul of Soviet designs. A confrontation here between superpowers is hardly unimaginable, given the strategic stakes and the heedless revolutionary fervor that threatens the security of each and every Gulf nation.

The current Iran—Iraq war has dragged on for several years, providing a classic example of a military impasse brought about by poorly-trained troops in support of modern technology. As the war continues, the imminence of national collapse on either or both sides increases. The vacuum created by it, failing a political solution, would virtually guarantee a superpower clash. *Gulf Strike* examines the ramifications of such an eventuality.

Mark Herman

Boardgame designer of Gulf Strike



1.0 LOADING INSTRUCTIONS

1.1 ATARI[®] DISK

■ Remove the BASIC cartridge from your computer and plug a joystick into the computer controller port#1. If you have a computer with built-in BASIC (800XL) you must hold the **OPTION** key down during the entire loading process, which takes place before and after the title screen appears.

■ Turn on your disk drive.

■ When the ready light goes out, put the game disk into the disk drive.

■ Turn on your computer. The game program will load, display the title screen, and ask if you will play a new or saved game. Make your selection as described below (Section 2.0), and the computer will continue to load the game. Finally, it will ask if you're playing the one- or two-player version. The computer will resume the loading procedure (800XL users must continue to hold down the **OPTION** key).

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2.0 GAME CONTROLS

All input to the computer is done with either the joystick or the **START** key on the keyboard.



The computer will prompt you for input. By toggling the joystick and pressing the fire button, you will be able to respond to all computer prompts.

To end a game phase/turn you must press the **START** key.

3.0 VICTORY CONDITIONS

At the beginning of the game, the player commanding the US/Iranian forces controls all 21 Victory Point Squares (VPS). During the 25 turns of the game, he must prevent the USSR player from capturing 9 of these VPS.

The 21 VPS, followed by their map location, are:

Tabriz (9,9)	Kermanshah (10,23)	Zanjan (16,15)
Hamadan (16,22)	Abadan (14,40)	Ahvaz (15,37)
Arak (19,26)	Rasht (21,13)	Qazyin (22,17)
Qom (25,24)	Kashan (26,26)	Tehran (27,20)
Esfahan (27,32)	Shiraz (30,44)	Bandar Abbas (45,55)
Kerman (48,42)	Mashad (57,17)	Oman Point (43,58)
Dubay (38,61)	Qeys Island (35,57)	Abu Dhabi (36,64)

The game will end when one of the following situations occur:

- when 25 game turns have been completed,
- the turn after the Soviet/Iraqi side captures 9 VPS, or
- when the player(s) choose to end the game.

If the game is ended before one of the above victory conditions is met the computer will only display the number of enemy hit points each side has eliminated. When a side meets one of the above victory conditions he is declared the winner and the computer will calculate the degree of victory. The degree of victory is based upon the number of enemy hits points eliminated and bonus points. The Soviet/Iraqi player will get bonus points for how fast he takes the 9 VPS and the USA/Iranian player will get bonus points for the number of VPS the Soviet/Iraqi player failed to take.

4.0 SCALE

4.1 Turn Scale: each game turn represents two (2) days of real time.

4.2 Map Scale: each map square is 28×28 kilometers or 784 square kilometers.

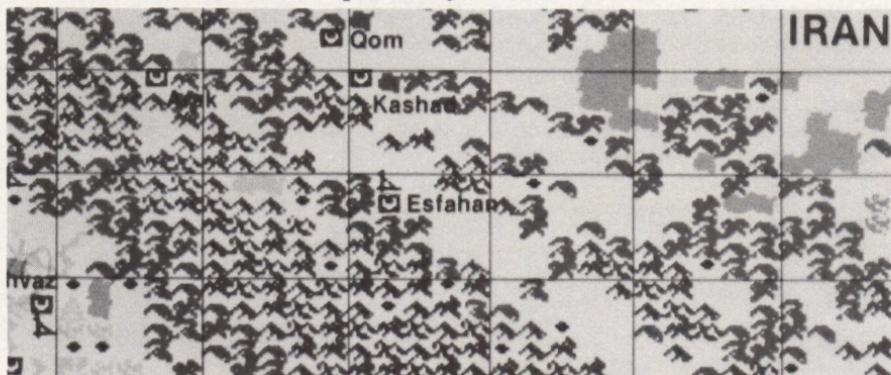
4.3 Unit Scale: there are three types of units: ground units, air units and naval units.

- **Ground:** each unit represents a body of troops ranging in size from a battalion to division, with their particular equipment.
- **Air:** each unit represents a squadron of approximately 10 to 24 aircraft.
- **Naval:** each unit represents a battlegroup of one or more ships.

5.0 THE MAP

The map extends: west to east from the Tigris and Euphrates Rivers to the eastern border of Iran; and, north to south, from the southern half of the Caspian Sea to the north coast of the Persian Gulf. Thus, most of the fighting in the campaign will take place across Iran, with naval combat in the Persian Gulf.

Although not visible on the map, the entire playing area is divided into 28×28 kilometer squares. In the lower right hand corner of the map two black sets of numbers are displayed. These numbers will indicate the location of the cursor and act as a reference point for you.



Portion of Strategic Map

The map is made up of several different terrain types:

Type	Terrain Color	Cost
rough desert	gold	3/6
desert	gold	2/4
rough	red	3/8
airbase	*	2/3
city	*	2/3
victory point square (VPS)	*	2/3
town	*	2/3
swamp	blue	4/8
oil rig	any	2/3
seaport	blue	2/3
mountains	red	4/8
impassable mountains	black	—
ocean	blue	—
river	blue	—
bridge	blue	4/4
border	†	☆
clear	brown	2/3

Terrain Cost: The first number is the number of MP that it costs a non-armored unit to move into the square. The second number represents the MP cost for armored units.

* color depends upon ownership: USA/Iranian=gold; USSR/Iraq=black.

† color depends upon terrain beneath symbol. The border is gold in rough or desert; red in mountains, and black in clear terrain.

☆ same as the terrain type it is on.

6.0 STACKS

No individual units are shown on the map. Instead, the player will see flashing black squares with a hammer and sickle on them to represent USSR & Iraqi units and flashing yellow squares with a star to indicate Iranian and Allied units. A square containing one or more units is called a **STACK**. There is no limit to the number of units that a stack can contain. But the display window (see Section 7 below) can display only 19 units at a time, and it is impossible to give orders to units not displayed, so you should avoid having more than 19 units in a stack.

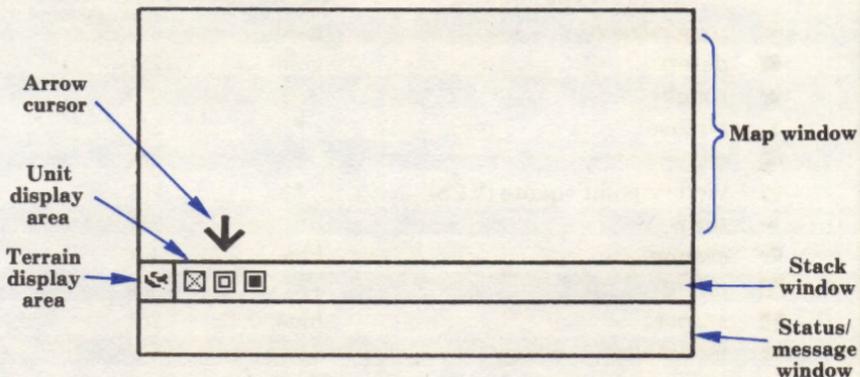
Again USA, Iran and their allied stacks are tinted yellow; Soviet and Iraqi stacks are tinted black.

Each player can examine his own stack by positioning the cursor over the stack and pressing the fire button. An enemy stack cannot be examined unless there is a friendly stack adjacent to it. A stack can contain different types of units. Each type has its own symbol:

- | | | | |
|---|---|---|------------------------|
|  | armored, mechanized |  | artillery |
|  | engineer |  | air units |
|  | marine |  | naval units, surface |
|  | air defense |  | naval units, submarine |
|  | infantry, airborne, airmobile, ranger, special forces | | |

7.0 WINDOWS

The computer's display screen is divided into three sections, called windows.



The Windows

Map Window: The upper portion of the display is called the Map Window. See Section 5 for details.

Status/Message Window: The lower section is the Status/Message Window. It will display information on selected units and is also used by the player for entering orders.

Stack Window: Between the Map Window and the Status Window is the Stack Window, showing the terrain type the stack is currently occupying and all of the units comprising the stack.

NOTE: to examine a unit in the Stack Window, position the Arrow cursor over the unit and press the fire button.

8.0 SEQUENCE OF PLAY

A turn in **Gulf Strike** consists of a sequence of phases. Pressing the **START** key will end a phase. The next phase will automatically begin.

A turn consists of three phases.

1) GROUND NAVAL MOVEMENT PHASE

- 1.1 USA/Iran ground and naval units change formation and move.
- 1.2 Soviet/Iraq ground and naval units change formation and move.

2) AIR MOVEMENT AND COMBAT PHASE

- 2.1 USA/Iran player creates an air mission.
 - The mission is launched.
 - Air strikes, surface strikes and Soviet/Iraq interception attacks are resolved.
 - The mission returns to base.

2.2 USA/Iran player creates and launches another strike.

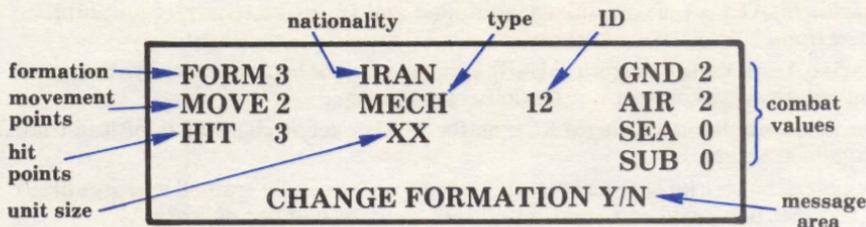
2.3 When the USA/Iran player is finished launching strikes, the Soviet/Iraq player creates and launches his air missions.

3) GROUND/NAVAL COMBAT

The computer scans the map for adjacent opposing units and resolves combat between them.

9.0 GROUND UNITS

9.1 GROUND STATUS/MESSAGE WINDOW



Status/Message Display

FORM (formation): a number from 1 to 6 that describes the unit's current formation. See *Formation Effects Table* (page 10) for more information.

MOVE (movement points): displays the number of movement points (MP) remaining for the unit. As a unit moves or changes formation during a turn its movement points are reduced.

HIT (hit points): each unit has a set number of hit points (HP). If it suffers damage in combat, it will lose hit points. When a unit's hit points reach zero it is destroyed and removed from the map.

Nationality: the nationality of the unit.

Unit Type: there are several types of ground units, see Section 9.2 for details.

Unit Size: a unit is one of four sizes:

- II — BATTALION (BN): the smallest unit in **Gulf Strike**.
- III — REGIMENT (REG): usually composed of 3 battalions.
- X — BRIGADE (BDE): usually composed of 3 battalions.
- XX — DIVISION (DIV): usually composed of 3 brigades.

Combat Value: the unit's combat strength against ground (GND), air (AIR), naval (SEA), and submarine (SUB) units. The correct value is used against the appropriate target. When attacking ground units, the GND is used; against submarines, the SUB value is used, etc.

Message Area: displays prompts from the computer requesting input from the player.

9.2 UNIT TYPES

Airborne (ABN): a unit organized, equipped and trained for delivery to the battlefield by airdrop.

Air Defense (ADA): a unit organized, equipped and trained to defend against enemy aircraft.

Airmobile (AMB): a unit organized, equipped and trained to move about the battlefield in aircraft (usually helicopters).

Armor (ARM): a unit composed of armored fighting vehicles (AFVs); tanks.

Artillery (ART): a unit organized, equipped and trained to deliver indirect fire upon enemy targets.

Engineers (ENG): a unit organized, equipped and trained to carry out engineering functions on the battlefield.

Infantry (INF): a unit composed of foot soldiers.

Mechanized (MEC): a unit composed of infantry units equipped with Armored Personnel Carriers (APC) and supported by AFVs.

Marine (MAR): a unit organized, equipped and trained to conduct amphibious operations.

Marine Amphibious Brigade (MAB): a marine unit of brigade strength designed and equipped to conduct amphibious operations.

Marine Amphibious Unit (MAU): as for MAB except the unit is of less than brigade strength.

Ranger (Ranger): an elite airborne infantry force specially trained and organized to conduct decentralized and limited independent combat operations.

Special Forces (SF): a multi-purpose elite force specifically trained and equipped to provide a flexible response to various contingencies.

9.3 COMMAND AND CONTROL

Ground units move in one phase and fight in another, with the computer automatically handling all combat.

To move a unit, place the cursor over a friendly stack. Press the fire button. In the stack window the type of terrain the stack is occupying will first be displayed followed by a separate symbol for each unit in the stack. Using the joystick, move the arrow cursor over the unit symbol you want to examine or give orders to and press the fire button. All the data for that unit will be displayed in the status/message window. The computer will ask you if you want to change the unit's formation.

Use the joystick to highlight either YES or NO (whichever one you want to do) in the message area and press the fire button.

If you elected to change the unit's formation the computer will prompt you for the new formation (see Section 9.4). Toggle the joystick until the desired formation is displayed in the message area and press the fire button.

After the formation prompt, the computer will ask if you want to move the unit. Respond to the prompt in the same manner as for formation. If you elect to move the unit, blue flashing boxes will surround the unit, indicating the legal areas that the unit can move into if it has sufficient movement points. If you are moving a unit into a space already occupied by a friendly stack, the cost to enter is determined by the terrain in the space.

You also have the option of moving the entire stack of units. After you have finished examining and giving formation orders to the units in the stack, move the arrow cursor to the terrain display area and then press the fire button. The computer will ask if you want to move the whole stack. Movement is carried out in the same manner as for individual units. The Movement allowance of the stack is that of the *slowest* unit in the stack.

Units must be moved square by square. Using the joystick, move the cursor to a blue square. Press the fire button. A stack symbol will move to the new square. Repeat this procedure until the unit reaches its destination or runs out of movement points.

It is not possible to move onto an enemy stack, unless that stack is composed only of air units. If a stack moves onto an opposing stack composed only of air units, then all of the air units in that stack are considered destroyed. The color of the airbase changes to that of the conquering unit. The unit automatically ends its move there.

If you want to end a unit's movement before it runs out of movement points, position the cursor over the stack symbol and press the fire button. The computer will ask you to confirm the move. Toggle the joystick to indicate either YES or NO and press the fire button.

If you *end* your move *on* (not just move through) an enemy VPS or airbase, the square is captured and changes to your color (yellow for USA/Iran; black for USSR/Iraq).

To end the Movement phase press the **START** key.

NOTE: Airborne, Ranger and Special Forces units have a movement factor of 60 on the first turn of the game, simulating the delivery by airdrop of these units.

9.4 FORMATIONS

A ground unit can be in six different formations. Each formation has a different effect upon movement points (MP) usage, movement and combat effectiveness (see Formation Effects Table). The six formations are:

1. **Move to Contact:** the middle ground between attack, defense and movement. The unit is not strong or weak in any area.
2. **Hasty Assault:** this formation can be formed easily from the Travel (4) or Move to Contact (1) formation, but its combat multiple is less than a Deliberate Assault (3) formation, and it costs more to enter a square than Move to Contact (1).
3. **Deliberate Assault:** a planned attack formation, which has the highest possible Combat Multiple.
4. **Travel:** the fastest formation for movement, but it has a low Combat Multiple and leaves the unit vulnerable to attack.
5. **Hasty Defense:** like Hasty Assault (2), very easy to change into. Most effectively used when the unit is suddenly threatened by an attack. The unit gets one column shift in its favor when attacked.
6. **Deliberate Defense:** the unit is "dug in" and cannot move. The unit gets three column shifts in its favor when attacked.

FORMATION EFFECTS TABLE

Formation	Terrain Cost Multiple	MPs to Enter Formation	MPs to Leave Formation	Combat Multiple
1. Move to Contact	1	1	0	1
2. Hasty Assault	2	2	0	2
3. Deliberate Assault	4	4	2	3
4. Travel	0.25	1	1	0.25
5. Hasty Defense	2	2	1	1*
6. Deliberate Defense	†	4	1	1★
*: plus one column shift on the CRT †: unit cannot move while in this formation ★: plus three column shifts on the CRT				

Terrain Cost Multiple: this is multiplied by the cost for entering a square, and deducted from the unit's Movement Points (MP) for that turn. Example: a unit in travel formation would only expend 1 MP to enter a clear terrain square, while a unit in Deliberate Assault formation would expend 8 MPs. Note that the cost to move into a clear square was 1 MP and not 0.5 MP as expected. It will always cost at least 1 full MP to move into any square.

The computer calculates the movement factors for airborne, ranger, special forces and airmobile units as if they are in Travel formation, moving on clear terrain. It does not make any difference what formation these units are really in or what terrain type they are moving to, they always have a movement factor of 1.

MPs to Enter/Leave: a unit expends this number of MPs to enter or leave that formation. Example: it costs 5 MPs to get into the Deliberate Defense Formation (6) from the Hasty Defense Formation (5); 1 MP to leave the old formation (5) and 4 MPs to get into the new one (6).

Combat Multiple: a unit's ground combat value is multiplied by the Combat Multiple. A unit in Travel formation has its combat strength cut to one-quarter, while a unit in Deliberate Assault formation has its combat strength trebled.

9.5 COMBAT

Combat takes place whenever two opposing stacks move adjacent to each other.

Because each square is 784 square kilometers, the player will not have the command and control to coordinate attacks on a tactical level. The computer will decide which friendly units will attack which enemy units. Of course the manner in which you assign units to stacks and how you maneuver them will have a great effect on the battle's outcome.

Combat is handled automatically by the computer during the Ground Combat Phase. A friendly stack adjacent to an enemy stack will attack and be attacked during this phase.

NOTE: the term attacker and defender is designated by the computer during the Ground Combat Phase, and does not refer to the current formation that a unit is in. However, units in formation 5 (Hasty Defense) or 6 (Deliberate Defense) will not attack, only defend.

Before the computer displays the result of ground and naval combat it will ask if you want the 'slow' results readout. If you select YES, the computer will pause after each combat result and wait for you to press the fire button before displaying the next readout. If you choose the fast results readout, the computer will automatically "scroll" through the combat results.

RANDOM FACTOR	Attacker-Defender Strength Comparison														
	1:4	1:3	1:2	-2	-1	0	+1	+2	2:1	3:1	4:1	5:1	6:1	7:1	8:1
1	3/0	2/0	2/0	2/0	1/0	1/0	1/0	1/0	1/1	1/1	1/1	1/1	0/1	0/1	0/2
2	2/0	2/0	2/0	1/0	1/0	1/0	1/0	1/1	1/1	1/1	1/1	0/1	0/1	0/2	0/3
3	2/0	2/0	1/0	1/0	1/0	1/0	1/1	1/1	1/1	1/1	0/1	0/1	1/2	0/2	0/3
4	2/0	2/0	1/0	1/0	1/0	1/0	1/1	1/1	1/1	0/1	1/2	1/2	0/2	1/3	0/4
5	2/0	1/0	1/0	1/0	1/0	1/1	1/1	1/1	0/1	1/2	1/2	0/2	1/3	0/3	0/4
6	1/0	1/0	1/0	1/0	1/1	1/1	1/1	0/1	0/1	1/2	0/2	0/3	0/3	0/3	0/4
7	1/0	1/0	1/0	1/1	1/1	1/1	0/1	0/1	1/2	0/2	0/3	0/3	0/4	0/4	0/5
8	1/0	1/0	1/1	1/1	1/1	0/1	0/1	1/2	0/2	0/2	0/3	1/4	0/4	0/4	0/5
9	1/0	1/1	1/1	1/1	0/1	0/1	1/2	0/2	0/3	0/3	1/4	0/4	0/5	0/5	1/6
10	1/1	1/1	1/1	0/1	1/2	1/2	0/2	1/3	1/4	1/4	0/4	0/5	0/5	0/6	0/6

GROUND COMBAT RESOLUTION TABLE (CRT)

The first number is the number of hits the attacking stack takes and the second number is the number of hits the defending stack takes. All hits are allocated evenly through all units within the stack.

The player need not refer to the Combat Resolution Table (CRT) during the game, the computer will calculate all combat. It is provided to give the players some guidelines when planning their strategies. Note that some columns on the CRT are odds ratios, while others are combat differentials.

You should be aware of what additional modifiers affect the battle's outcome. The CRT modifiers are:

Formation: see the Formation Effects Table (9.4) for the combat multiple. If the defender is in Hasty Defense formation it receives a one column shift in its favor. If it is in Deliberate Defense formation, it receives a three column shift. Only the most favorable shift is used.

Terrain: a unit attacking from a bridge square has its combat strength halved.

Armor: if an attacking or defending stack has an armor or mechanized unit, the CRT is shifted two columns in its favor. If both sides have armor, the shifts will cancel each other out.

Artillery: if the defender has an artillery unit, the CRT is shifted two columns in its favor. The attacker, however, gets an even greater benefit. For each artillery unit the attacker has, he receives a two added to his random factor on the CRT.

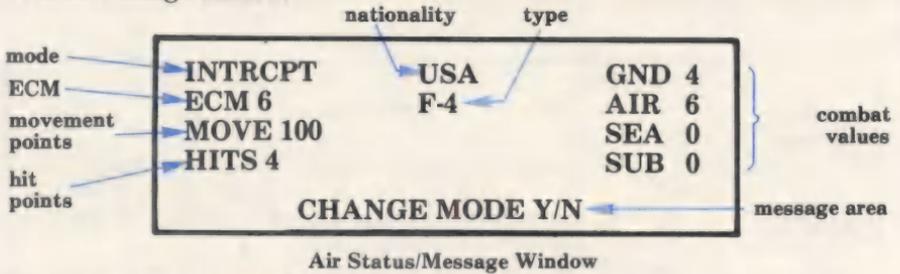
Engineers: if an attacking stack has any engineer units, the CRT is shifted one column in the attacker's favor.

NOTE: on the CRT, the attacker's favor is a shift to the right and the defender's favor is a shift to the left.

10.0 AIR UNITS

10.1 AIR STATUS/MESSAGE WINDOW

The Air Status/Message window is very similar to the Ground Status/Message window.



Mode: the current mode the air unit is in. See section 10.3.

ECM: electronic counter measures. ECM is used to jam enemy electronic targeting devices used by missiles. The higher the number the better. See Section 10.4.

Type: indicates what type of aircraft the air unit is composed of (see Section 10.2).

Nationality: the nation the air unit belongs to.

Movement points: the total number of squares that an air unit can move in a turn. Air units are not affected by terrain features.

Hit points: the number of hit points remaining to the air unit. When a unit's hit points reach zero, the unit is destroyed.

Combat values: see Section 10.4.

Message area: the area of the window where the computer displays status messages and prompts.

10.2 UNIT TYPES

Air units are rated differently for each of the combat missions. Each air unit represents one air squadron.

Multi-Role: AV-8B, F-4, F-15, F-111, Mirage, Yak-36 and MiG-23 aircraft. These air units have a good AIR and GND rating, although examination of individual air units will show one rating is greater than the other. These units can be used in almost any role, and, when at the same air base, create a varied and unpredictable threat for your opponent.

Interceptors: Hunter, Lightning (LTNG), and MiG-21 aircraft. These air units are predominantly air-to-air combat fighters with a very limited bombardment capability.

Surface Strike: A-4, II-28, Su-20, A-10, AH-1, Su-24, Jaguar, and Tu-22 aircraft. The major use of these units is surface strikes. Some units have a poor AIR rating, and the attack helicopters (AH-1) have a limited range requiring them to be based near their targets.

Multi-Strike: A-6 and A-7 aircraft. These are air units characterized by their good GND and SEA ratings. They are usually based on an aircraft carrier.

Subsurface Strike: SH-3, P-3 and S-3 aircraft. These units can attack detected submarines. The P-3 is a long-range, land-based plane. The P-3 and S-3 have a secondary anti-ship missile capability.

Others: E-6 aircraft. The E-6 is an electronic counter measures (ECM) air unit. When stacked with other air units, its high ECM rating can benefit the entire stack.

10.3 MODES

Air modes are used to determine each aircraft's function and mission during a turn. There are three modes: Interception, Air Strike and Surface Strike. During the Air Movement and Combat Phase the player assigns aircraft to one of these modes. At the start of the game all air units with an Air Combat Value will be in the Interceptor mode, the rest are in the Surface Strike mode.

Interception: units in this mode may not be sent out on missions, but are prepared to respond to enemy air movement. In this mode, their range will cover the entire map. When enemy air units on a mission are detected by the player's radar, air units in interception mode automatically take off and attempt to attack the enemy air units. The number of interceptors dispatched varies, but is roughly the same as the number of enemy units in the mission. A given unit may fly only three interceptions per Air Move and Combat Phase. If an enemy flight is detected, but there are no friendly interceptors remaining to launch, the enemy will carry out its mission unmolested. An air unit cannot fly both an attack mission and interception during the same turn. Even if after returning from an attack mission, and its mode is changed to interception, the computer will not use it in this mode until the next turn.

Air Strike: air units in this mode are used as escort cover for air units in the Surface Strike mode. When enemy interceptors attack the mission air units they are first engaged by the air units in Air Strike mode. Only when all of the air units in Air Strike mode are eliminated, are the air units in the Surface Strike mode attacked by the enemy interceptors.

Surface Strike: Air units in this mode are allowed to attack surface units: ground units, naval units and airbases. If the unit has a SUB combat value, it can attack submarine units. Air strikes can damage ground units, but cannot destroy them. No matter how much damage an airstrike inflicts on a ground unit, that unit's hit points will never go below 1. This also holds true for air units attacked while on the ground.

NOTE: only air units in Air Strike and Surface Strike mode can be used to form an air mission. Units with no Air combat value will always be in surface strike mode.

10.4 MOVEMENT AND COMBAT

Movement and combat takes place at the same time. The player forms missions to attack enemy units. A mission consists of at least one air unit from a base. Missions cannot be composed of air units from different bases. An air unit can fly a maximum of three missions per turn. Carrier-based air units only fly a single mission per turn.

To create a mission, place the cursor over a stack that contains air units and press the fire button. If necessary, set the units to the desired mode for the mission. Remember that air units in interception mode cannot be used to form a mission.

Position the arrow cursor over the stack's terrain display area and press the fire button. The computer will ask you if you want to create a mission. Respond with YES and position the arrow cursor over an air unit, if the unit is in the proper mode the computer will ask you if you want to use the air unit for your mission. Toggle the joystick to either YES or NO.

Once you have selected all of the air units for the mission, move the arrow cursor back to the terrain display area and press the fire button. The computer will then prompt you for the mission target. To assign a target for the mission, position the cursor over the enemy stack and press the fire button. Keep in mind that the range of the mission is limited to one-half the range of the slowest air unit.

If after launching an air mission you find that the air units do not have enough movement points to reach an enemy stack, position the cursor over any empty square and the mission will be allowed to return to base.

NOTE: the mission may be intercepted by enemy interceptors either on the way out or back from the base.

The computer will automatically carry out the mission. While flying the mission, there is a chance that the enemy will attempt to intercept. The enemy interceptors will first attack your units in Air Strike mode. Aircraft damaged during an interception dogfight will automatically return to base. There is also a chance that the target stack will detect an incoming air strike and respond with its own anti-aircraft fire. Each unit in the stack with an Air Combat Value (AIR) (see Section 9.1) may fire at the attacking air units.

If the target square contains more than one enemy unit, the computer will ask you to select one of the enemy units as the target for each attacking air unit. Toggle the joystick to move the arrow cursor over the desired target unit and press the fire button. Do the same for each attacking air unit. If the target stack contains units with an Air Combat Value, i.e. Air Defense ground units, they may respond with anti-aircraft fire against your air units before and after the strike is over.

When performing a ground strike on ground or naval units, the air unit uses its GND value. If the target is a submarine unit, its SUB value is used. If the air unit has no SUB value it cannot attack submarine units. The computer takes the appropriate air attack value and subtracts from it a random number from 1 to 10. A zero or negative result is a miss. If the result is 1-3, one hit point is subtracted from the target unit's hit points. If the result is greater than 3, two points are subtracted from the target unit's hit points.

Air to air combat is more complicated. First, the target air mission units are examined to find the best ECM rating. The attacking air unit selects one enemy air unit as its target. The computer takes the attacker's air combat value and subtracts it from a random number from 1 to 10. If the result is negative, the unit failed to inflict damage on the target. If the result is positive, the computer takes the target mission's best ECM value and subtracts it from a random number from 1-10 to obtain the ECM success value. If this value is negative, it is set to zero. The computer then takes the result of the first subtraction and subtracts from it the ECM success value. A negative result indicates no damage was inflicted. A positive number will cause the computer to take this result, divide it by two, round to nearest whole number, and subtract this value from the target unit's hit points. This same calculation is also used in determining hits from ground anti-aircraft fire.

After the attack, the mission's air units will return to base. If they were not intercepted on their flight to the target, there is a chance that they could be intercepted by enemy interceptors and/or fired upon by ground anti-aircraft units.

The player may choose to have the mission's air units return to their original base, or another friendly base within range. Any air units that aborted their mission will automatically return to its original base, movement points will still be deducted from them, but less than the aircraft that completed the mission. Carrier-based air units are automatically returned to their carrier.

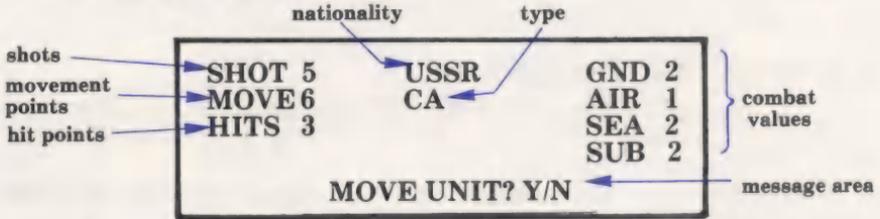
NOTE: land-based aircraft may not be based on aircraft carriers and vice versa.

Air Superiority missions: sometimes it is a good idea to send your fighters out in an attempt to draw out and destroy the enemy's interceptors. This is done in the normal manner as a ground attack mission, except the target square should not contain an enemy stack. The target square should be at least a quarter of your air unit's range distance from its base. The air units must be in the Air Strike mode.

When the mission's air units land, you may create and fly another mission, Movement Points and the three mission limit permitting. To end the Air Phase press the START key.

11.0 NAVAL UNITS

11.1 STATUS/MESSAGE WINDOW



The naval Status/Message window is very similar to the ground Status/Message window (see Section 9.1). The only value not covered in Section 9.1 concerns the SHOT value: the total number of anti-ship missile salvos with the sea unit.

On naval units, the GND combat value represents the unit's guns, SEA its anti-ship missiles and SUB its torpedoes, surface to subsurface missiles and depth charges.

A naval surface unit will attack an adjacent enemy ground unit with its GND combat value. It will attack an adjacent enemy surface unit with either its SEA or GND combat value. Adjacent enemy submarine units will only be attacked with the SUB value.

A submarine unit attacks adjacent enemy units in the same manner as surface units. But if it does not have a GND or SEA combat value it will use its SUB value (i.e. torpedoes and subsurface to surface missiles) instead.

Naval combat uses the same procedure as air to air combat.

11.2 UNIT TYPES

There are several different naval unit types. Each type has its own capabilities. Each unit represents a single ship. All of these units fall into three major categories.

Surface Action Units: these units have varying GND, AIR, SEA and SUB capabilities and are most vulnerable to air and submarine naval units.

- BB — Battleship
- CA — Conventional Cruiser
- CG — Guided Missile Cruiser
- CGN — Nuclear Guided Missile Cruiser
- CO — Corvette
- DD — Destroyer
- DDG — Guided Missile Destroyer
- FAC — Fast Attack Craft
- FF — Frigate
- MCM — Mine Countermeasures Ship

Aircraft Carriers: surface units with the ability to sortie with specially designated air units. These units are particularly potent due the increased offensive strike range provided by the aircraft.

- CV —Conventional Aircraft Carrier
- CVN —Nuclear Aircraft Carrier
- CVH —Helicopter Carrier

Submarines: the primary purpose of these units is to inflict as much damage as possible on enemy units, or at least to threaten such damage. They are most vulnerable to air units and other enemy submarines.

- SS —Conventional Submarine
- SSGN —Guided Missile Submarine
- SSN —Nuclear Submarine

11.3 COMMAND AND CONTROL

Movement and combat is handled in the same manner as ground combat (see Section 9.1). However, naval units are allowed to attack ground units adjacent to them along the coast.

Unlike ground units, it is not possible to move a *stack* of naval units. You must move them *unit by unit*.

Air units on aircraft carriers are sent out on missions during the Air Movement and Combat Phase.

12.0 SAVE GAME

At the end of each combat phase the computer will ask you if you want to save the game. If you respond with YES, the computer will prompt you to insert a formatted diskette.

Remove the game disk from the disk drive and replace it with a formatted diskette. Note that the Save Game routine will overwrite the previous saved game already on the formatted disk. Press the fire button key; the game will be saved to disk. While saving, the computer monitor screen will display the message "SAVING GAME, PLEASE STAND BY".

After the game has been saved, the computer will prompt you to put the game disk back into the disk drive and the game will be resumed.

13.0 DESIGNER'S NOTES

13.1 HELICOPTERS

We know that helicopters can land almost anywhere, but because of memory problems we have been forced to restrict helicopters to airbases. Besides, have you ever tried to maintain an attack helicopter in the middle of the desert?

While it appears that the helicopters in an Airmobile unit can land anywhere, this is not the case. It is assumed that the transport helicopters that carry the airmobile unit are located on an airbase and fly from the base, to the airmobile unit's location, pick them up, transport them to their destination and then return to the nearest friendly base.

13.2 ABORTED AIR MISSIONS

If an air mission is aborted, (i.e. it took a hit either from enemy interception or ground anti-aircraft fire) it will return to its base. Because it did not complete the entire mission, fewer movement points will be deducted from it than from the other units that completed the mission.

13.3 STACK MOVE

In stack move, the worst movement factor and the worst formation is used to determine the movement points for the stack. Note that these factors are not necessarily taken from the same unit. Hence, a stack's MPs could be less than the slowest unit in the stack.

13.4 AIRMOBILE UNITS

Airmobile units can move and land anywhere. They fly from one point to another and so terrain features do not affect their movement points.

NOTE: even though it is possible for an airmobile unit to end its turn on a sea square, it is assumed that the unit is still in the air and that it will continue its move on the next turn. It is possible that an adjacent enemy naval unit could attack the unit.

13.5 COMBAT

In the Combat Phase the computer scans the map to locate all enemy units in contact with each other. The computer makes a list of the locations of each of these combat situations and then starts the combat resolution phase. The computer resolves each combat in turn for all ground units on the list. If the computer encounters a combat situation that involves a naval unit it will display the location coordinates of the combat, but skip on to the next ground combat situation. When all of the ground combat situations have been resolved it will then go back and resolve the naval actions, ship by ship.

13.6 TRANSFERRING AIR UNITS FROM BASE TO BASE

Sometimes it is a good idea to move your air units from airbase to airbase. The best way to do this is to first create an air mission. When the computer asks you for the target, select the airbase that the mission was launched from. The computer will then come back with "Select Base". Move your air units to any friendly base that is within their MP range.

By using this method you have gained a greater radius that you can move your air units in. As an example, a MiG-23 has 40 MPs. Its normal max. attack range is 20 squares. But if you select its own base as target, you have just expanded its range to 38 squares: the distance to target 1, to return 1, total mission distance=2. Take 2 from the MiG-23's 40 MPs and you have 38 MPs remaining to move the units to a new base.

13.7 GARRISON UNITS

To protect airfields the USSR/Iraqi player has non-moving garrison units. In addition to these garrison units the computer will also leave a garrison unit in every VPS the USSR/Iraqi side takes when playing in the single player mode. This has been done to make the single player game more challenging and to give the feeling of supply lines for the USSR/Iraqi player.

13.8 MOVEMENT ONTO VPS

When playing the game it appears that naval units can move onto land and VPS land units can move onto sea VPS. These units are not really moving onto these squares, but are considered to be controlling them from the nearest appropriate square. But for combat purposes the units are counted as being on the VPS.

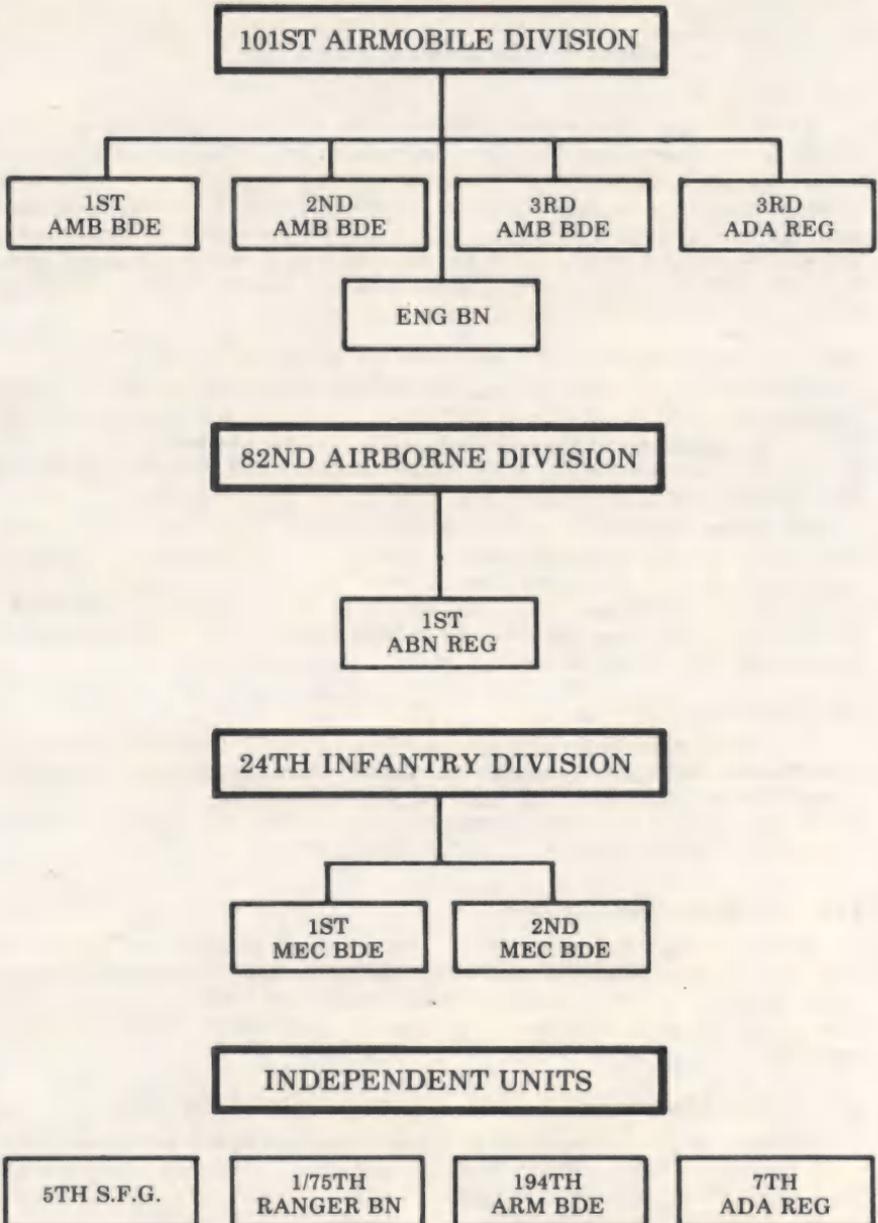
13.9 AIRBORNE, RANGER AND SPECIAL FORCES UNITS

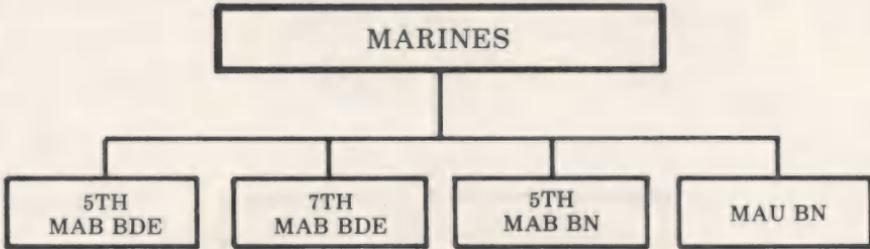
Because of their elite status and general lack of heavy equipment these units are allowed to ignore terrain effects and move at a steady rate of one MP per square. They can even move across the open sea, but let's assume they are using aircraft, boats or some other such vehicle.

14.0 ORDERS OF BATTLE

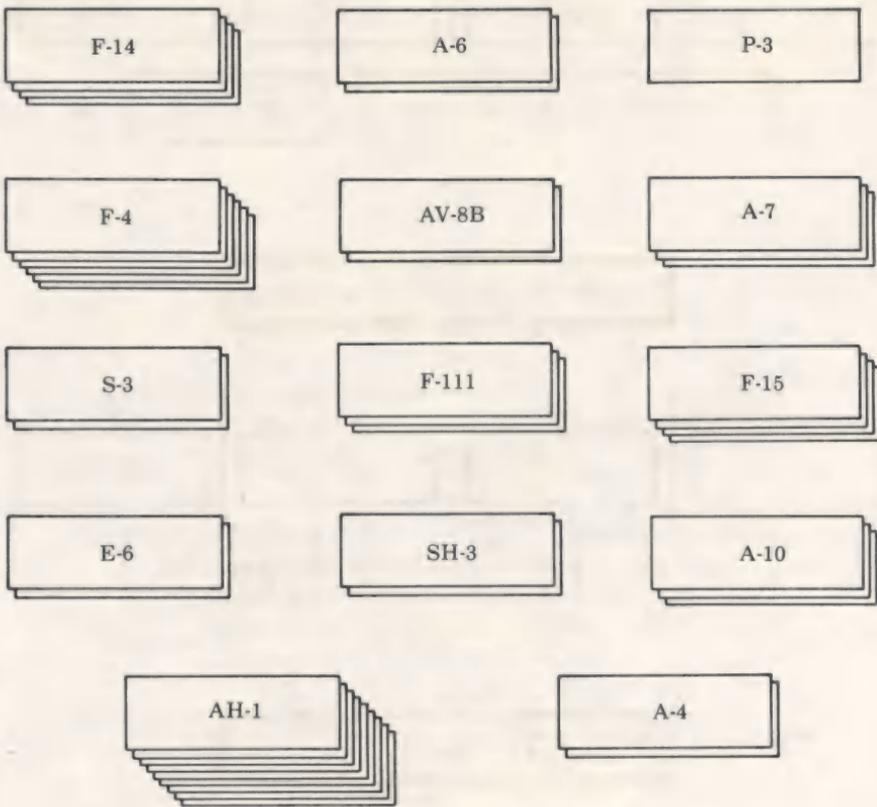
U.S.A.

GROUND UNITS





AIR UNITS

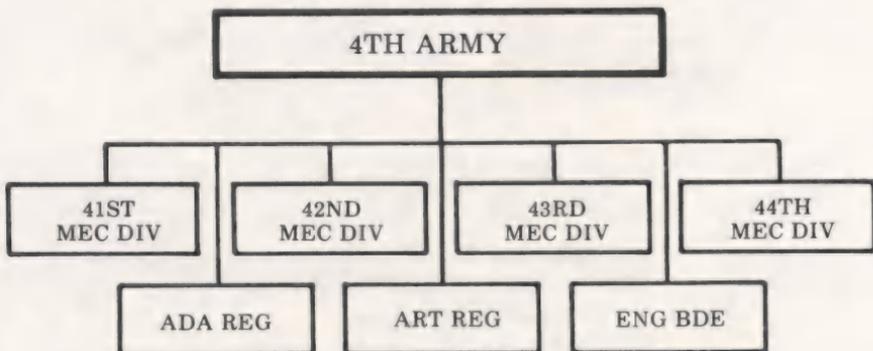
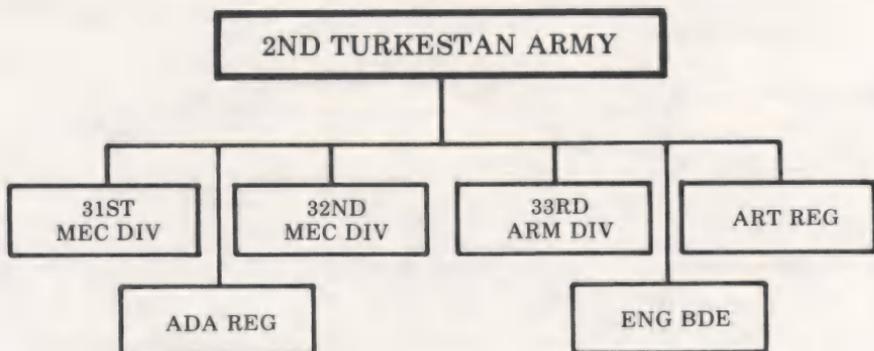
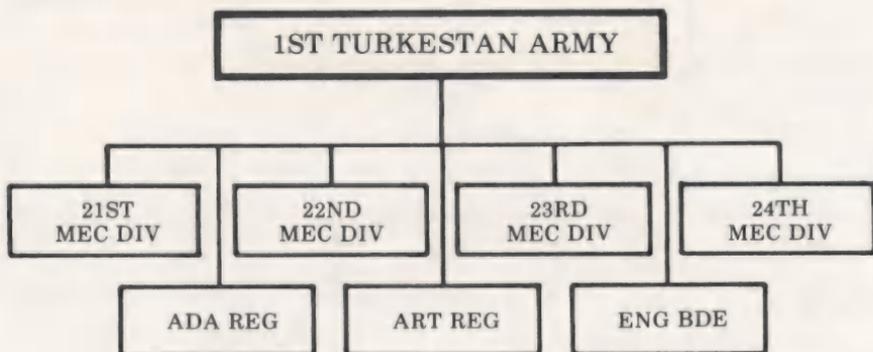


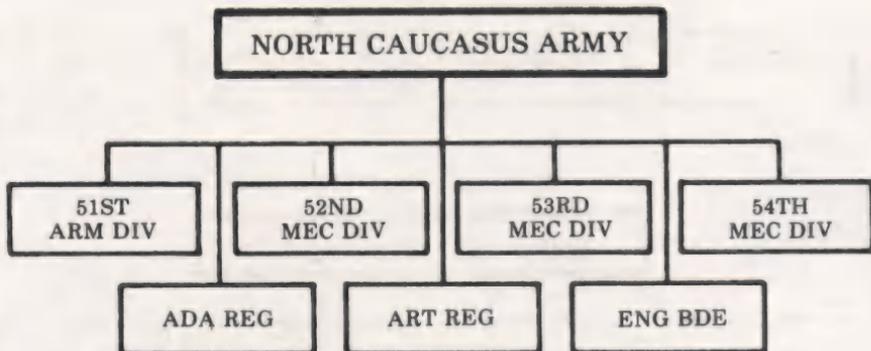
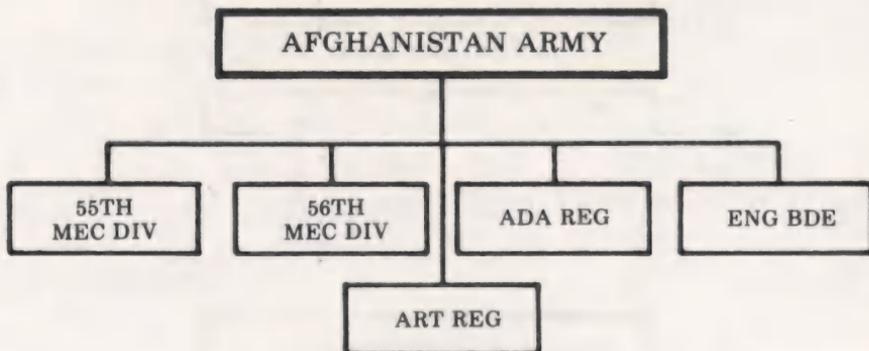
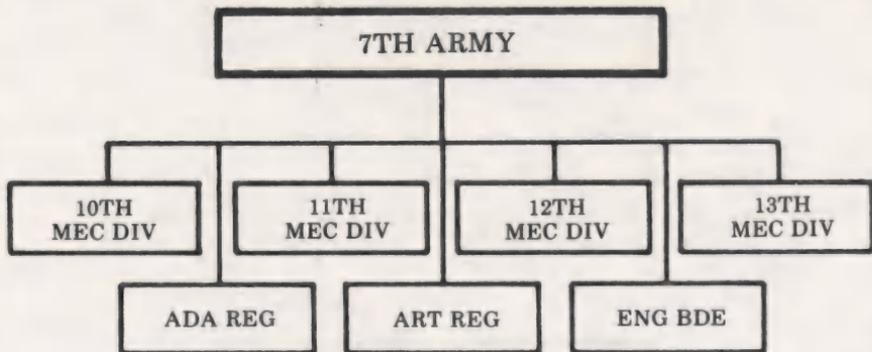
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NAVAL GROUPS

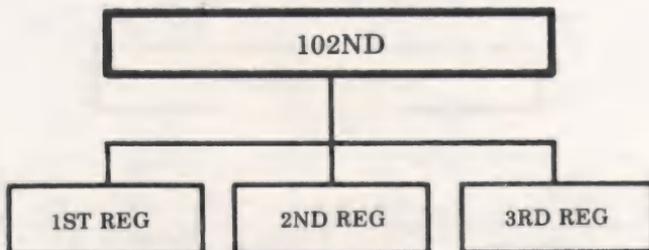
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- 1—Nuclear Aircraft Carrier
- 1—Conventional Aircraft Carrier
- 3—Nuclear Submarines
- 1—Destroyer

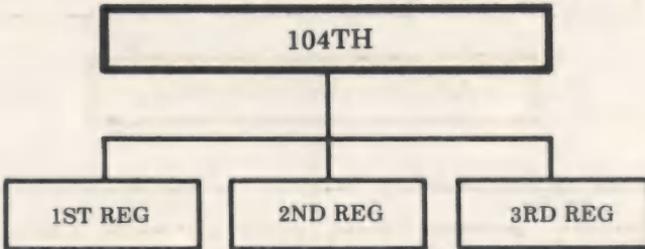
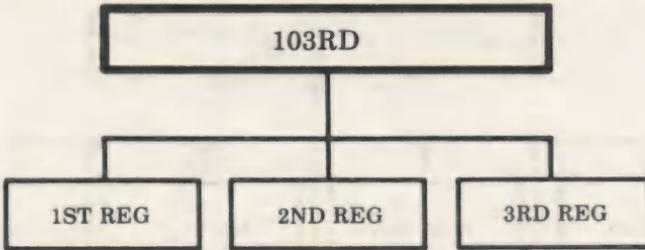
U.S.S.R.
GROUND UNITS



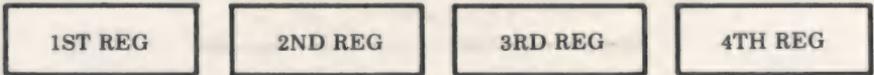


AIRBORNE DIVISIONS

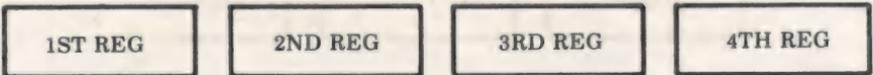




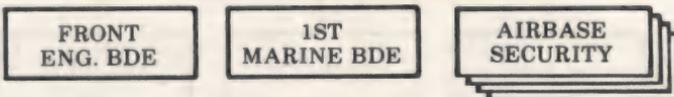
FRONT ARTY REGIMENTS



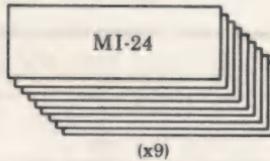
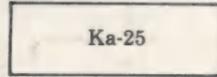
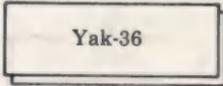
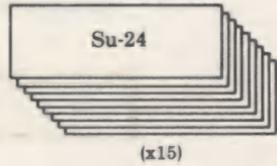
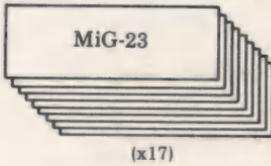
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INDEPENDENTS



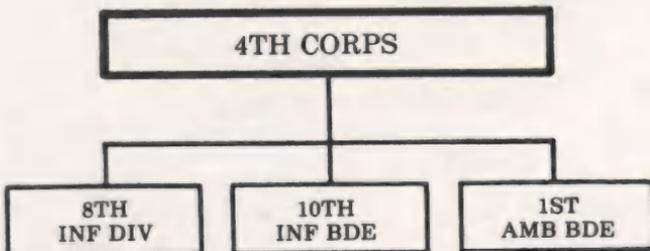
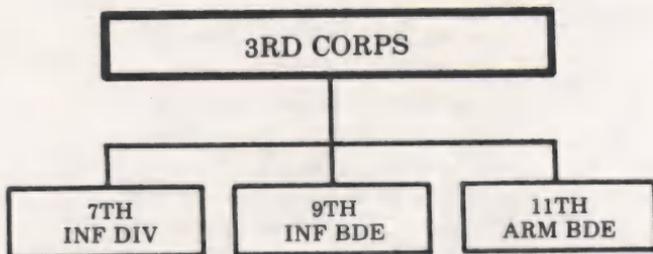
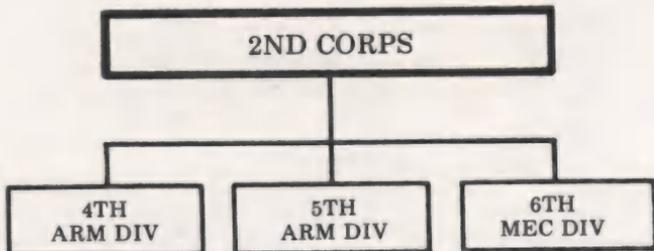
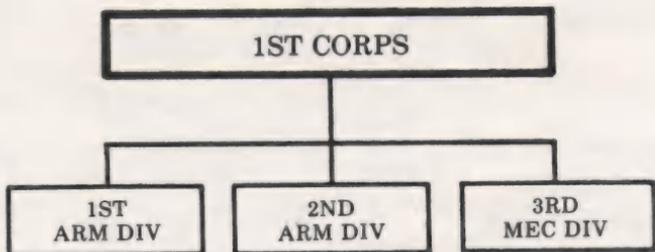
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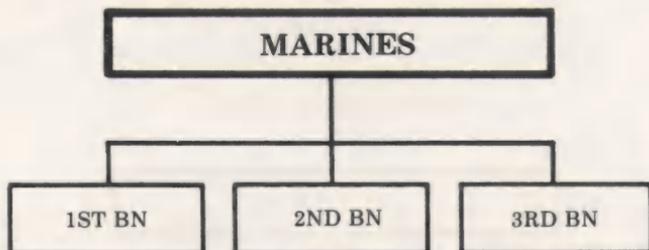


NAVAL GROUPS

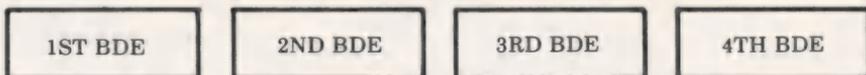
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- 2—Conventional Cruisers
- 1—Guided Missile Cruiser
- 1—Nuclear Guided Missile Cruiser
- 1—Guided Missile Destroyer
- 2—Conventional Submarines
- 2—Nuclear Submarines
- 3—Guided Missile Submarines
- 1—Mine Countermeasures Ship

IRAN
GROUND UNITS

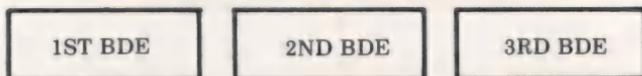




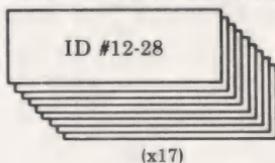
ADA BRIGADES



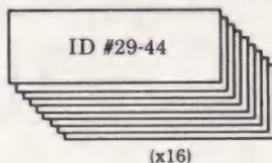
ARTILLERY BRIGADES



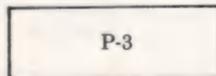
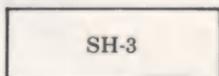
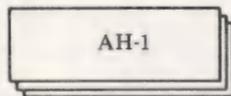
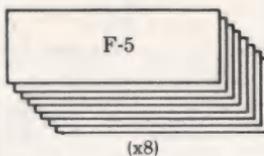
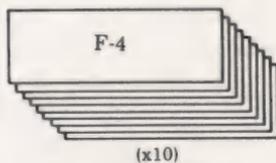
MILITIA DIVISIONS



MILITIA BRIGADES



AIR UNITS

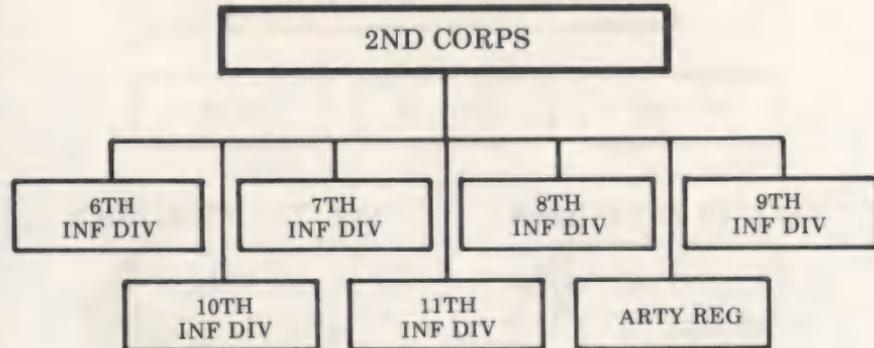
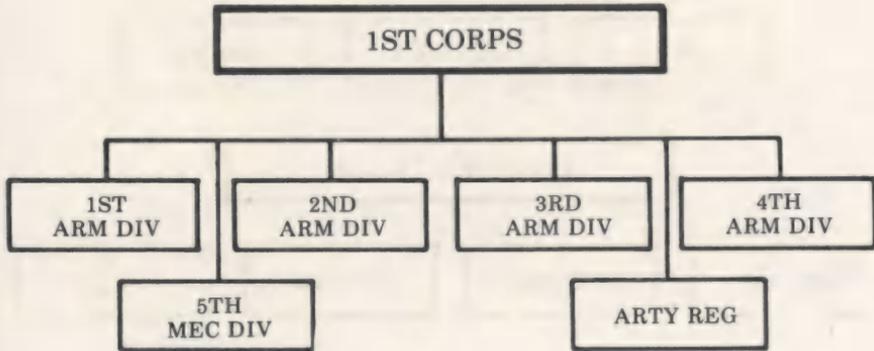


NAVAL GROUPS

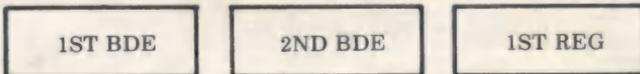
- 1—Corvette
- 1—Frigate
- 1—Destroyer
- 1—Fast Attack Craft

IRAQ

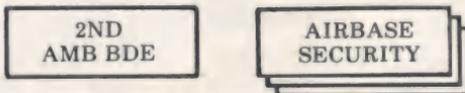
GROUND UNITS



ADA UNITS



INDEPENDENT



AIR UNITS

TU-22

II-28

MIRAGE

MIG-21

SU-20

HUNTER

MIG-23

NAVAL GROUPS

3—Fast Attack Crafts



Soviet T-62
Main Battle Tank

OTHER NATIONS

GROUND

UNITED KINGDOM

1RW
ABN BN

FRANCE

R.P.I.M.
ABN BN

UAE

GUARDS
BDE

1ST
INF BDE

2ND
INF BDE

ARTILLERY
BDE

SAUDI ARABIA

GUARDS
BDE

2ND
ARM BDE

4TH
MECH BDE

ARTILLERY
BDE

KUWAIT

3RD
MECH BDE

OMAN

GUARDS
BN

1ST
INF BDE

2ND
INF BDE

QATAR

GUARD BN

INF BDE

AIR

SAUDI ARABIA

F-5

LIGHTNING

KUWAIT

A-4

MIRAGE

OMAN

HUNTER

JAGUAR

QATAR

MIRAGE

NAVAL GROUPS

BRITISH

1—Nuclear Submarine

SAUDI ARABIA

1—Corvette

1—Frigate

FRANCE

1—Destroyer

1—Mine Countermeasures Ship

15.0 SELECTED WEAPONS SYSTEMS

15.1 AIRCRAFT



A-4 Skyhawk

Single-seat carrier-based light attack bomber

Made by: McDonnell Douglas, USA

User: USA, Kuwait

Max Speed: 645mph

Armament: Bombs, rockets, missiles, guns

GND:3 AIR:2 SEA:0 ECM:4 HP:3 MP:50



A-6 Intruder

Two-seat carrier-based strike and reconnaissance aircraft

Made by: Grumman, USA

User: USA

Max Speed: 643mph

Armament: Bombs, missiles

GND:5 AIR:1 SEA:7 SUB:0 ECM:4 HP:3 MP:60



A-7 Corsair

Single-seat light attack aircraft

Made by: Vaught, USA

User: USA

Max Speed: 698mph

Armament: Bombs, rockets, missiles, guns

GND:5 AIR:1 SEA:6 SUB:0 ECM:4 HP:3 MP:40



A-10 Thunderbolt

Single-seat close support aircraft

Made by: Fairchild, USA

User: USA

Max Speed: 449mph

Armament: One 30mm multi-barrel gun and up to 16,000lb of bombs, rockets, missiles

GND:7 AIR:0 SEA:0 SUB:0 ECM:4 HP:3 MP:40



AH-1 HueyCobra

Two-seat ground attack helicopter

Made by: Bell, USA

User: USA, Iran

Max Speed: 141mph

Armament: Multi-barrel cannon, grenade launcher, minigun, missiles, rockets

GND:5 AIR:0 SEA:0 ECM:4 HP:3 MP:20



AV-8 Harrier

Single-seat V/STOL strike and reconnaissance aircraft

Made by: British Aerospace, UK and McDonnell Douglas, USA

User: USA

Max Speed: 737mph

Armament: 30mm cannon, bombs, missiles, rockets, gun pods

GND:3 AIR:5 SEA:0 SUB:0 ECM:4 HP:3 MP:20



E-6 (EA-6B) Prowler

Four-seat carrier-based ECM aircraft

Made by: Grumman, USA

User: USA

Max Speed: 656mph

Armament: Unarmed

GND:0 AIR:0 SEA:0 SUB:0 ECM:7 HP:2 MP:60



F-4 Phantom

Two-seat multi-mission land and carrier-based fighter and fighter-bomber

Made by: McDonnell Douglas, USA

User: USA, Iran

Max Speed: Mach 2.15 (1418 mph)

Armament: Cannon, missiles, rockets, bombs

GND:5 AIR:6 SEA:0 SUB:0 ECM:5 HP:4 MP:100



F-5 Tiger

Lightweight fighter

Made by: Northrop, USA

User: Iran, Saudi Arabia

Max Speed: Mach 1.64 (1,082mph)

Armament: 20mm cannon, rockets, bombs

GND:3 AIR:5 SEA:0 SUB:0 ECM:3 HP:3 MP:40



F-14 Tomcat

Two-seat carrier-based air superiority and general purpose fighter

Made by: Grumman, USA

User: USA

Max Speed: Mach 2.34 (1,564mph)

Armament: Multi-barrel 20mm gun, missiles

GND:4 AIR:9 SEA:0 SUB:0 ECM:6 HP:3 MP:120





F-15 Eagle

Single-seat and two-seat air superiority fighter

Made by: McDonnell Douglas, USA

User: USA, Saudi Arabia

Max Speed: + Mach 2.5

Armament: 20mm multi-barrel gun, missiles, bombs

GND:5 AIR:8 SEA:0 SUB:0 ECM:6 HP:4 MP:100



F-111

Two-seat tactical fighter

Made by: General Dynamics,8

User: USA

Max Speed: Mach 2.2 (1,160mph)

Armament: Multi-barrel 20mm gun, missiles, bombs

GND:6 AIR:4 SEA:0 SUB:0 ECM:6 HP:4 MP:180



Hunter

Single-seat fighter

Made by: Hawker, UK

User: Oman, Iraq

Max Speed: Mach 0.92 (710mph)

Armament: 30mm cannon, bombs, rockets

GND:1 AIR:2 SEA:0 SUB:0 ECM:2 HP:3 MP:20



II-28 Beagle

Light tactical bomber, ECM and reconnaissance aircraft

Made by: Ilyushin, USSR

User: Iraq

Max Speed: 560mph

Armament: 23mm cannon, bombs

GND:3 AIR:1 SEA:0 SUB:0 ECM:2 HP:3 MP:40



Jaguar

Single-seat light tactical support aircraft

Made by: Sepecat, UK

User: Oman

Max Speed: Mach 1.6 (1,055 mph)

Armament: 30mm guns, bombs, rockets

GND:1 AIR:0 SEA:0 SUB:0 ECM:3 HP:2 MP:30



Ka-25

Anti-submarine carrier-based helicopter

Made by: Kamov, USSR

User: USSR

Max Speed: 137mph

Armament: Torpedoes, depth charges, bombs

GND:0 AIR:0 SEA:0 SUB:5 ECM:2 HP:3 MP:20



Lightning

Single-seat fighter

Made by: BAC, UK

User: Saudi Arabia

Max Speed: Mach 2.1 (1,320mph)

Armament: Cannon, missiles, bombs, rockets

GND:1 AIR:3 SEA:0 SUB:0 ECM:2 HP:3 MP:50



MI-24 Hind

Attack helicopter

Made by: USSR

User: USSR

Max Speed: 185mph

Armament: Cannon, rockets, antitank missiles

GND:5 AIR:0 SEA:0 SUB:0 ECM:2 HP:3 MP:20



MiG-21 Fishbed

Single-seat lightweight fighter

Made by: Mikoyan, USSR

User: Iraq

Max Speed: Mach 2.1 (1,385mph)

Armament: 23mm cannon, missiles, rockets

GND:0 AIR:4 SEA:0 SUB:0 ECM:3 HP:3 MP:40



MiG-23 Flogger

Single-seat tactical fighter

Made by: Mikoyan, USSR

User: USSR, Iraq

Max Speed: Mach 2.3 (1,520mph)

Armament: 23mm cannon, missiles, rockets

GND:4 AIR:6 SEA:0 SUB:0 ECM:5 HP:4 MP:40



Mirage

Single-seat fighter-bomber

Made by: Dassault-Breguet, France

User: UAE, Qatar, Kuwait, Iraq

Max Speed: Mach 2.2 (1,460mph)

Armament: 30mm cannon, missiles, rockets,
bombs

GND:4 AIR:6 SEA:0 SUB:0 ECM:4 HP:3 MP:80



P-3 Orion

Shore-based anti-submarine reconnaissance aircraft

Made by: Lockheed, USA

User: USA, Iran

Max Speed: 473mph

Armament: Up to 20,000lb of torpedoes, mines,
depth charges and bombs

GND:0 AIR:0 SEA:4 SUB:6 ECM:3 HP:3 MP:255



S-3A Viking

Four-seat carrier-based anti-submarine aircraft

Made by: Lockheed, USA

User: USA

Max Speed: 518mph

Armament: Torpedoes, depth charges, mines,
missiles, rockets, special weapons

GND:2 AIR:1 SEA:4 SUB:5 ECM:4 HP:2 MP:14



SH-3 Seaking

Anti-submarine helicopter

Made by: Sikorsky, USA

User: USA

Max Speed: 166mph

Armament: Homing torpedoes, rockets, depth
charges, missiles

GND:0 AIR:0 SEA:0 SUB:6 ECM:3 HP:2 MP:30



Su-20 Fitter

Single-seat ground-attack fighter

Made by: Sukhoi, USSR

User: Iraq

Max Speed: Mach 2.17 (2,430mph)

Armament: 30mm cannon, rockets, missiles

GND:3 AIR:2 SEA:0 SUB:0 ECM:3 HP:3 MP:20



Su-24 Fencer

Two-seat attack aircraft

Made by: Sukhoi, USSR

User: USSR

Max Speed: Mach 2.5 (1,650mph)

Armament: 23mm multi-barrel cannon, missiles, rockets, bombs

GND:5 AIR:2 SEA:0 SUB:0 ECM:4 HP:4 MP:40



Tu-22 Blinder

Reconnaissance bomber

Made by: Tupolev, USSR

User: USSR, Iraq

Max Speed: Mach 2.0 (1,320 mph)

Armament: Cannon, bombs, missiles

GND:5 AIR:0 SEA:0 SUB:0 ECM:2 HP:3 MP:80



Yak-36 Freehand

Single-seat carrier-based V/STOL strike and reconnaissance aircraft

Made by: Yakovlev, USSR

User: USSR

Max Speed: 850mph

Armament: Cannon, bombs, rockets

GND:3 AIR:4 SEA:0 SUB:0 ECM:3 HP:3 MP:20

Gulf Strike makes extensive use of abbreviations. The following is a comprehensive alphabetical listing of the acronyms found in this manual:

ABN	Airborne unit	ENG	Engineer
ADA	Air Defense unit	FAC	Fast Attack Craft
AFV	Armored Fighting Vehicle	FF	Frigate
AH	Attack Helicopter	FORM	Formation
AMB	Airmobile unit	GND	Ground
APC	Armored Personnel Carrier	INF	Infantry
ARM	Armor	MAB	Marine Amphibious Brigade
ART	Artillery	MAR	Marine unit
BB	Battleship	MAU	Marine Amphibious Unit
BDE	Brigade	MCM	Mine Countermeasures Ship
BN	Battalion	MEC	Mechanized unit
CA	Conventional Cruiser	MP	Movement Point
CG	Guided Missile Cruiser	NATO	North Atlantic Treaty Organization
CGN	Nuclear Guided Missile Cruiser	REG	Regiment
CO	Corvette	SF	Special Forces
CRT	Combat Resolution Table	SS	Submarine unit
CV	Conventional Aircraft Carrier	SSGN	Nuclear Guided missile submarine
CVH	Helicopter Carrier	SSN	Nuclear submarine
CVN	Nuclear Aircraft Carrier	SUB	Submarine
DD	Destroyer	US/USA	United States of America
DDG	Guided Missile Destroyer	USSR	Union Of Soviet Socialist Republics
DIV	Division	VPS	Victory Point Square
ECM	Electronic Counter Measures		

15.2 GROUND

15.21 Unit comparison chart

UNIT TYPE	COMBAT VALUES			MOVEMENT POINTS
	GND	AIR	HITS	
USA				
Engineer Battalion	1	1	1	8
Air Defense Battalion	1	4	3	8
Infantry Battalion	1	0	1	4
Special Forces Battalion	1	1	1	4
Ranger Battalion	1	1	2	6
Marine Battalion	1	1	1	6
Air Defense Brigade	1	4	3	8
Airborne Regiment	3	2	3	6
Marine Brigade	3	2	3	4
Airmobile Brigade	3	2	3	7
Mechanized Brigade	4	2	3	8
Armored Brigade	5	2	3	8
USSR				
Airborne Regiment	3	2	3	6
Air Defense Regiment	1	4	3	8
Artillery Regiment	1	2	3	8
Engineer Brigade	2	2	3	8
Marine Brigade	3	2	3	4
Armored Division	8/9	4	9	8
Mechanized Division	8/9	4	9	8
Iran				
Marine Battalion	1	1	1	4
Air Defense Brigade	1	5	3	8
Airmobile Brigade	2	1	3	4
Armored Brigade	2	1	3	8
Artillery Brigade	1	2	3	8
Infantry Brigade	2	1/0	3	4
Armored Division	5/7	3	9	8
Infantry Division	4/5/6	2/1	9	4
Mechanized Division	5	2	9	8
Iraq				
Air Defense Regiment	1	2	4	8
Artillery Regiment	1	2	3	8
Air Defense Brigade	1	4	3	8
Airmobile Division	3	1	9	4
Armored Division	4	2	9	8
Mechanized Division	5	2	9	8
Infantry Division	4	2/1	9	4
UK				
Airborne Battalion	1	1	1	6
France				
Airborne Battalion	1	1	1	6

BMP Combat Vehicle (APC)



Made by: USSR
User: USSR, Iraq
Crew: 3
Passengers: 8 infantry
Main armament: 73mm gun
Max armor: 20mm
Max speed: 34mph

Chieftain Main Battle Tank



Made by: UK
User: Iran
Crew: 4
Main armament: 120mm gun
Max armor: 150mm hull, 250mm turret
Max speed: 30mph

M60 Main Battle Tank



Made by: USA
User: USA, Iran, Saudi-Arabia
Crew: 4
Main armament: 105mm gun
Max armor: 120mm
Max speed: 30mph

M109 Self-propelled Howitzer



Made by: USA
User: USA, Iran
Crew: 6
Main armament: 155mm howitzer
Max armor: 20mm
Max speed: 34mph

M113 Armored Personnel Carrier (APC)



Made by: USA
User: USA, Iran
Crew: 2
Passengers: 11 infantry
Main armament: 50cal Machine Gun
Max armor: 38mm
Max speed: 42mph

M551 Sheridan Light Tank



Made by: USA
User: USA
Crew: 4
Main armament: 152mm gun/missile launcher
Max armor: 45mm
Max speed: 45mph

SAU-152 Self-propelled Howitzer



Made by: USSR
User: USSR
Crew: 5
Main armament: 152mm howitzer
Max armor: 110mm
Max speed: 30mph

T-55 Medium Tank



Made by: USSR
User: Iraq
Crew: 4
Main armament: 100mm gun
Max armor: 100mm hull, 170mm turret
Max speed: 30mph

T-62 Medium Tank



Made by: USSR
User: USSR, Iraq
Crew: 4
Main armament: 115mm smooth-bore gun
Max armor: 100mm hull, 170mm turret
Max speed: 34mph

T-72 Medium Tank



Made by: USSR
User: USSR
Crew: 3
Main armament: 125mm gun
Max armor: Up to 120mm on hull, more on turret. Possibly of composite type resistant to shaped charges.
Max speed: 50mph

15.3 NAVAL

15.31 Unit comparison chart

TYPE OF UNIT	COMBAT VALUES						MOVEMENT POINTS
	GND	AIR	SEA	SUB	ECM	HIT	
USA							
BB	9	3	9	5	6	6	8
CVN	5	8	5	5	6	5	10
DD	4	6	5	5	5	4	8
SSN	0	0	0	6	4	4	12
CV	5	8	7	5	6	5	8
USSR							
CVH	4	9	6	3	5	3	8
CA	6	4	4	1	3	4	8
CG	3	7	8	3	5	3	8
CGN	3	8	9	2	6	4	10
DDG	3	5	6	3	2	2	8
MCM	1	0	0	2	3	2	8
SS	0	0	0	4	3	2	6
SSGN	0	0	8	4	6	4	12
SSN	0	0	0	6	4	4	12
IRAN							
CO	2	3	6	2	2	2	8
DD	4	6	5	5	5	5	8
FAC	1	2	4	0	2	1	8
FF	2	3	6	3	4	2	8
BRITISH							
SSN	0	0	0	6	4	4	12
FRANCE							
DD	4	6	5	5	5	4	8
MCM	1	0	0	2	3	2	8
IRAQ							
FAC	1	2	4	0	2	1	8
SAUDI ARABIA							
CO	2	3	6	2	2	2	8
FF	2	3	6	3	4	2	8

15.32 Naval ships

Kiev class V/STOL carrier/cruiser (USSR)

Displacement: 40,000 tons
Armament: Missiles, 57mm dual-purpose guns
anti-sub rockets
Aircraft: 35 mixed V/STOL & helicopter
Speed: 30kts



Echo II class missile submarines (USSR)

Displacement: 5,600 tons
Armament: Cruise missiles, torpedoes
Speed: 20kts



Kresta I class cruiser (USSR)

Displacement: 6,500 tons
Armament: Bombardment missiles, surface to air missiles, anti-sub missiles, torpedoes, 57mm guns.
Speed: 34kts



Nimitz class aircraft carriers (USA)

Displacement: 81,600 tons
Armament: missiles
Aircraft: Over 90 aircraft and helicopters
Speed: 33kts



George Washington class missile submarine (USA)

Displacement: 6,019 tons
Armament: Missiles, torpedoes
Speed: 30kts



STRENGTH COMPARISON TABLES

For those of you that care about such things, we have listed below comparison tables for the total Ground, Air and Sea Combat Values of the nations involved in the game.

GROUND UNITS			
NATION	GND	AIR	HIT
USA	38	31	39
USSR	263	199	321
Iran	163	71	275
Iraq	51	36	123
UAE	8	6	16
Saudi Arabia	9	8	26
Qatar	3	1	4
Oman	6	3	9
Kuwait	2	2	5
UK	1	1	1
France	1	1	1
Iran+Allies	231	124	376
USSR & Iraq	314	235	444

AIR					
NATION	GND	AIR	SEA	SUB	HIT
USA	201	137	44	28	151
USSR	194	140	0	5	164
Iran	89	100	4	12	78
Iraq	47	61	0	0	58
Saudi Arabia	4	8	0	0	6
Qatar	4	6	0	0	3
Oman	2	2	0	0	5
Kuwait	10	10	0	0	9
Iran+Allies	310	263	48	40	256
USSR & Iraq	241	201	0	5	222

NAVAL					
NATION	GND	AIR	SEA	SUB	HIT
USA	23	25	26	38	32
USSR	26	37	61	47	46
Iran	9	14	21	10	9
Iraq	3	6	12	0	3
Saudi Arabia	4	6	12	5	4
UK	0	0	0	6	4
France	5	6	5	7	6
Iran+Allies	41	51	64	66	55
USSR & Iraq	29	33	73	47	49

CREDITS

Computer Game Design
Winchell Chung

Original Boardgame Edition
Mark Herman, Victory Games, Inc.

Rules Editing
William E. Peschel
Charles Kibler

Production Coordinator
Phyllis Suddeth

Boxcover Art
Jim Talbot

Graphics
Charles Kibler
Mike Creager

Typesetting
Colonial Composition

Prep Dept. Coordinator
Elaine M. Adkins

Printing
Monarch Services, Inc.

Playtesters
William E. Peschel
David Kuijt
Arlan Harris
W.L. Mac Murdy
L.G. McEliney
Nicholas Thomas
John & Sue Snider
Neil Bradley
Regan Carey
Al Friedman
Pete Petrone

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Cochituate, Mass. 01778

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1. Check your equipment carefully to be sure that all cables and connections are correct.

2. Re-read the section in your computer's manual that tells you how to load software. Try to load software again.

3. If possible, load another program from a tape or disk you know works on your computer. This will prove that your equipment works. Try once more to load your game.

4. The normal reason software will not load is tape recorder or disk drive head misalignment. Your computer may be able to save and load programs on its own disk drive, but be unable to read software made on a different disk drive for this reason. Be sure your heads are correctly aligned. Your local computer store or dealer can help you with this.

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