



OPERATION COM•BAT

Computer Battle Game

Concept, Design, Computer Graphics, Programming, & Manual

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GENERAL OPERATION

6

5 Copying the Game Disk

7 OPERATION COM•BAT is not disk copy 8 protected. It may be copied using any of the 9 regular disk copy routines appropriate for your 10 computer. If you are unfamiliar with these 11 procedures, please read your computer manual for 12 the particulars of disk copying.

13

14 Before using OPERATION COM•BAT for the 15 first time, we recommend that you make a 16 working copy of the disk. Be sure that the 17 name of the copy matches that of the master 18 program disk.

19 20

Loading (Amiga)

21

22 Just follow the regular power up sequence for 23 your Amiga. When your Amiga requests the 1.2 24 Workbench disk, please insert the OPERATION 25 COM•BAT working copy in the internal disk 26 drive. OPERATION COM•BAT will then boot.

27

28 If you have only 512K of ram in your Amiga, 29 any external drives attached to the system must 30 be removed.

31

32 If you copy OPERATION COM•BAT to your hard 33 drive, two following two assigns must be placed 34 in your startup-sequence so the game files may 35 be located in the OP_COM and OP_COM_FILES 36 directories.

37

38 assign OPCOM: <hd>:OP_COM 39 assign OPCOMFILES: <hd>:OP_COM_FILES

Loading (Macintosh)

Operation COM•BAT is not shipped with System software. The latest System software should be used. If there are problems with the game loading, any memory intensive utilities that are running (i.e. Ram cache, print spoolers, etc.) should be turned off.

8 should be turned off.

10 To launch OPERATION COM•BAT, double click 11 on the Game Icon after the disk is inserted in 12 the computer.

Loading (IBM)

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16 Place the OPERATION COM•BAT working copy 17 program disk in drive A: and type

OPCOMBAT < RETURN >

When The Program Begins

When the game loads into the computer, the Credits/Copyright picture displays on your monitor. To play OPERATION COM•BAT, click the mouse button or press RETURN. A requester will appear and ask you for a manual validation character.

30 You will be requested to type in the first letter 31 of a random word from the OPERATION 32 COM•BAT manual. For example, the requester 33 may ask for the first letter from

Page 12 Line 14 Word 5

37 After you find and type in the correct letter, 38 the *Rocky Canyon* Battlefield map will load. 39 OPERATION COM•BAT is now ready to begin.

Mouse and Keyboard Control

3 All OPERATION COM•BAT actions are controlled 4 via the mouse.

6 IBM computers without a mouse should consult 7 the appended instruction sheet for IBM play 8 instructions.

10 On Amiga computers the left mouse button 11 initiates actions, while the right mouse button 12 displays menus.

The keyboard is used to input specific *Modem* 15 and Opponent Parameters, filenames, and 16 messages when playing between two computers.

18 Messages between players may be typed at any 19 time during game play, using the SEND and 20 RECV lines at the bottom of the display.

Verification Requester/Dialog

A verification requester/dialog will appear 24 your screen whenever you request an action that 25 effect drastically the current 26 The requester/dialog will configuration. 27 an action from the player, and the game will not 28 proceed until a valid response is made. 29

These requesters/dialogs are designed to protect you from accidentally initiating an action that may irreversibly change some aspect of game play, or inadvertently break the teleconnection. Please read them carefully before responding, otherwise you may initiate an action that you actually do not want to occur.

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OPERATION COM • BAT

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Overview

OPERATION COM. BAT lets you pit your military 7 those skills against of the computer in graphically animated, Computer Battle Game. also allows you to play against another human 10 player, either on a single computer, or over the 11 telephone with two computers (Amiga, Macintosh 12 or IBM) equipped with modems. 13

14

OPERATION COM. BAT provides 6 perspectively 15 viewed, Battlefield Terrain maps upon which the 16 game may be played, Each offers different 17 military problems to be solved by the strategy, 18 tactics and intelligence of the player or players. 19

20

Battlefield Terrain maps include Rocky 21 Ruins, Desert Jungle 22 Canvon. Dunes, River Meadow, Marshland Bog and Archipelagos. 23

24

Four types of animated military attack ordnance 25 are provided, as well as supply vehicles and air 26 support. Game pieces will move, aim and fire on 27 command. To select any ordnance unit, simply 28 mouse pointer to any game point the 29 visible on the Battlefield Map, or to one of the 30 positions marked on the Tactical Grid, and press 31 the mouse button. The chosen ordnance unit 32 will now be marked by a surrounding bracket. 33

34

selected unit, point the 35 To Battlefield Map location within range and press button. To Fire the selected unit. the mouse 37 choose any firing angle from the Firing Cluster, 38 then point to and click on the Firing control.

1 A player's turn lasts until each ordnance unit 2 has either moved and fired once, or the *Turn*

3 Timer runs to zero. Play can be passed to the

4 other player at any time by clicking on the Pass

5 control once the player has made all the moves

6 he wishes for that turn.

7

8 Each time an ordnance unit is hit by enemy fire, 9 it sustains damage. If it receives too much 10 damage, the piece is destroyed and removed from 11 the Battlefield.

12

13 As units run short of *Ammo* or *Fuel*, they can 14 be resupplied (using the Supply Control Cluster) 15 from Supply vehicles which are positioned 16 adjacent to them. Supply vehicles can resupply 17 only at HeadQuarters.

18

19 If Air support is activated, it may be called as 20 long as less than *Five* pieces have moved and 21 less than *Five* shots have been fired.

22

The goal of OPERATION COM•BAT is to destroy the enemy's HeadQuarters — not an easy task!

25 26

27

Display And Control

The OPERATION COM•BAT display is divided into two sections. The upper half display is the Battlefield Terrain Map, while the lower half of the display is referred to as the Control Panel.

32 33

34

Battlefield Terrain Map

35 The Battlefield Terrain Map is a close-up 36 perspective view of the current battlefield with 37 both *Blue* and *RED* (Mac: *Black* and *White*) 38 military ordnance in position. At any given time 39 one-sixth of the Battlefield Map is displayed.

1 Movement and attacks by ordnance units are 2 graphically animated on this Battlefield Terrain 3 Map.

4

5 Generally. only those areas of the 6 containing player's unit a can be viewed. 7 However, calling Air Support, will scroll across 8 the one-third portion of the Battlefield Map over 9 which the Air Support flies — revealing and updating enemy positions as it does so. 10 11

Control Panel

12 13 14

14 The lower half of the OPERATION COM•BAT 15 display is the Control Panel. The Control Panel 16 is comprised of five distinct areas which provide 17 information, game controls, and a user-to-user 18 interface. These sections are as follows.

19 20

21

22

23

24

- «» The Ordnance Status Table
- «» The Tactical Grid
- «» Ordnance Controls
 - «» RECV & SEND Message Lines
- «» Game Turn Timer
 - «» Connect Timer

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Ordnance Status Table

The Ordnance Status Table displays the current 29 status of the selected ordnance. Whether a 30 unit has enough supplies of Fuel and Ammo, as well 31 the Defense to complete a mission, the 32 Gun Range or Power to destroy an enemy, can 33 be determined with a glance at the table. The 34 player is well advised to note the stats of both 35 his own units, and those of his enemy. 36

37

38 The Ordnance Status Table lists unit data in the 39 following areas.

- 1 Ordnance Type = type of military unit currently
- 2 selected; either Heavy or Light Armor, Heavy or
- 3 Light Artillery, Supply Vehicle, Air
- Transmitter, or the HeadQuarters. 4
- 6 Defense = the strength of a unit, where zero
- 7 Defense means the unit is destroyed. All units
- begin with maximum Defense for that ordnance
- 9 type.

5

10

- Mobility = the maximum mobility range for the 11
- selected unit, where 1 mobility unit will move 12
- the ordnance 1 horizontal or 1 vertical square on 13
- the Tactical Grid Map (32x20). 14
- 15 Gun Range = the maximum horizontally fired gun 16 range for the selected unit as measured on the 17
- Tactical Grid, where 1 Gun Range unit = 1 18
- range is always limited to grid cells 19
- least partially visible on the Battlefield 20
- except for one row to the top and one row 21
- the bottom of the Battlefield Map which is not 22
- displayed, but is still within Gun Range. 23 24
- Gun Power = the amount of damage to be 25
- subtracted from the target enemy unit's Defense 26
- stat with each successful hit by this ordnance 27 type.
- 28

29

32

- **Ammo** = amount of ammunition remaining to 30
- this unit, where 1 Ammo = 1 Firing. 31
- Fuel = amount of fuel remaining to this unit, 33
- where 1 Fuel = 1 cell of movement across the 34
- 35 map.
- **Position** = both horizontal (X grid) and vertical 37
- (Y grid) coordinates of the selected unit on the 38
- Tactical Grid Map. 39

1 Tactical Grid Map

The Tactical Grid Map displays the whole Battlefield Terrain Map under a 32x20 grid overlay upon which prominent Battlefield Map features are displayed.

7

8 The Terrain Grid Map displays positions for each 9 unit of the army whose turn is current, and the 10 last known positions of previously detected 11 enemy units. Enemy positions are updated 12 whenever a player selects a friendly unit in the 13 vicinity. Position updates occur only when the 14 map area in question is displayed within the 15 upper Battlefield Map display.

16

17 When a player no longer has any units in that 18 vicinity, it is not possible to view that area 19 without calling Air Support.

20

Reconnaissance provides updates on enemy units 21 received for entire are the one-third 22 Map over which the portion of the Battlefield 23 Air Support flies, each time Air Support is 24 called. 25

26

The selected unit indicates its Tactical Grid Map position by blinking on and off. Another friendly unit may be chosen for action by clicking one of the friendly colored squares on the Tactical Grid map with the mouse.

32

33 Red squares indicate *Red* army units, while 34 Yellow squares indicate *Blue* army units.

35

36 (Macintosh: Hollow Squares indicate *White* army 37 units, while Square Dots indicate *Blue* army 38 units).

Ordnance Controls

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22 23 24

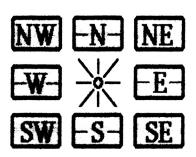
The Unit Command Controls which are 3 used to initiate actions, are separated into four distinct 4 clusters. 5

6 Activity controls are Primary Command, Firing Direction, Supply and Air Support, and 8 are 9 highlighed when active. Selection controls are Ammo and Fuel under Supply, and Top, Mid and 10 Low under Air Support. 11

12 controls Choice are highlighted whenever 13 selected and are unhighlighted when they are not 14 selected. 15

Firing Direction Control Cluster

The Firing Direction Cluster highlights 19 current firing angle for a selected unit. Eight different firing angles are available, one for each of the eight major compass points.



35 Care should be taken when determining diagonal firing trajectories. Consulting the cells marked 36 on the Tactical Grid Map will provide accurate plots of enemy units that can be hit on diagonals.

Primary Command Control Cluster

The Primary Command Control Cluster provides controls to page through the unit list in either direction, to indicate *Move*, to *Pass* or *Fire*.



 The « and » controls allow the player to page through the entire ordnance unit list for each piece remaining in the game that is being played.



It offers a quick method of determining if all units were considered for action.



The Move control indicates whether the selected unit has moved this turn. All actual unit movement is always commanded in the Battlefield Map display.



The **Pass Turn** control is chosen whenever a player has finished unit activity and wishes to *Pass* the turn to his opponent before the *Turn Length Timer* is zero.

Otherwise the turn will Pass when the Turn Length Timer reaches zero, or immediately following a call for Air Support.



The Fire control is chosen to fire the guns of the selected unit. The unit's current firing direction is always indicated on the Firing Direction Compass Cluster.

Supply Control Cluster

3 A unit may be supplied with either Fuel or 4 Ammo once during a turn. Supply may occur 5 whenever the supply vehicle is adjacent to the 6 vehicle that is requesting Supply (North, South, 7 East, or West).

SUPPLY FUEL AMMO

20 Either Fuel or Ammo may be chosen as the 21 material being supplied, and is so marked.

23 Clicking Supply will supply the current unit the 24 maximum quantity of fuel or ammunition allowed 25 for that ordnance type.

27 Supply vehicles can never resupply each other 28 during the course of a game.

30 For a supply truck to be resupplied with fuel, it 31 must return to its HeadQuarters.

33 If a Supply Truck runs out of *Fuel* before 34 HeadQuarters is reached, it is stranded for the 35 remainder of the game.

36
37 It is still possible, however, for units to be
38 supplied from this stranded supply vehicle, as
39 long as they have sufficient fuel to reach it.

Air Support Control Cluster

When Air support is activated (see the OPTIONS Air Support Control Cluster menu), the is accessed to control the flight path of an attack, and to call the attack on the enemy.

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AIR SUPPORT TOP MID LOW

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14

If the Transmitter has not been destroyed, Air Support may be called, and as long as less than Five units have been moved, and less than Five units have been fired. When a fifth unit moves 23 fires, Air Support is deactivated for the remainder of that turn.

24 25

The Air Support Top, Mid and Low controls 26 select that portion of the Battlefield 27 Terrain Map over which Air Support will fly. 28

29

The attack plane will randomly strafe 1 of 7 grid 30 rows within the one third map portion that is 31 indicated. 32

33

Each enemy unit that is encountered on that 34 selected row will receive Five points of damage. 35

36

player's turn ends after Air Support has 37 completed a strafing run on the enemy and has 38 reconned all enemy positions in the flight area. 39

RECV and SEND Message Lines

3 The RECV and SEND message lines, which are 4 displayed across the bottom part of the Control 5 Panel, are only activated after a teleconnection 6 has been established with another computer. All 7 alphanumeric keys typed on the keyboard will be 8 displayed on the SEND line.

Message Text will be transmitted to the tele-11 connected computer either when the RETURN 12 key is pressed, or when the end of the SEND

13 line (72 characters) is reached.

15 The RECV message line displays incoming text 16 messages from your teleconnected opponent.

18 A chime sounds when an incoming message is 19 received to alert the player to read the message.

With some modems the RECV line will echo your SEND message should the teleconnection be broken. On Disconnect the SEND and RECV

24 lines are disabled.

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26 Turn Timer

The Turn Timer displays the time remaining in a given turn. Turn times are set under the Options Menu.

32 Connect Timer

The Connect Timer indicates the elapsed time since the latest teleconnection with another computer was made. This is particularly useful for reminding players how long they have been on the telephone.

Ordnance Units - The Game Pieces

There are seven types of ordnance units that are positioned on the Battlefield Map at the start of each OPERATION COM•BAT game. Each of the three Battlefield Maps offers four game piece scenarios (see the SCENARIO Menu) that provide various unit configurations and placement.

8 various unit configurations and pl

10 Each ordnance type differs in Defense, Mobility, 11 Gun Range, Gun Power, and unit Fuel and Ammo.

12
13 It is important that players use ordnance types
14 effectively, together and alone, to maximize their
15 effectiveness.

HeadQuarters

2

16

17 18

29

19 The HeadQuarters (HQ) for each army is 20 represented by a flagged tent. HQ is a 21 stationary objects and cannot fire on the 22 enemy. Its sole defense rests with the other 23 mobile ordnance units.

24
25 A game is won when a player destroys his
26 opponents headquarters. Conversely, it is
27 important for a player protect his HQ to prevent
28 his opponent from winning the game.

30 Transmitter

31 The Transmitter is a stationary object that 32 cannot defend itself. Its sole purpose is to call 33 Air Support. If the Transmitter is destroyed. 34 Air Support cannot be called for the 35 remainder of the game. It 36 is important to protect your Transmitter, and attempt to destroy the Transmitter of your opponent, if the game is to be won. 39

Light Artillery

2

3 The Light Artillery is depicted as a jeep with a 4 mounted, short range RPG. These units have the 5 longest *Mobility* range, and the largest *Fuel* and 6 *Ammo* supply of any ordnance type. On the 7 other hand, they have the lowest *Defense*, *Gun*

8 Range and Gun Power.

Light Artillery are usually the first to attack, but without the support of heavier units, will likely be the first to be destroyed.

13

9

Nevertheless, combined they can produce enough fire power to take out any enemy unit.

15 16

Light Armor

17 18

- 19 Light armor is represented as a single barrel 20 light tank. They initially carry a respectable 21 quantity of Fuel and Ammo, have good Mobility,
- 22 Gun Range and Power.

23

24 Light Armor provides good backup support for 25 Light Artillery.

26

They are effective when used with heavier units to destroy enemy units.

29

30 Heavy Armor

31

- 32 Heavy Armor is represented as a two-barrel 33 tank. These units have a high Defense rating,
- 34 Gun Range reaching almost anywhere on the
- 35 Battlefield Map display, and a very high Gun
- 36 Power.

37

38 They can fire on lighter enemy units, and 39 remain out of range of return enemy fire.

1 Heavy Artillery

2
3 Heavy Artillery should really be considered a
4 Heavy Armored Artillery. They are represented

5 as large gun barrels on treads.

6

7 Heavy Artillery have the highest Defense, Gun 8 Power and Gun Range, and are the strongest 9 units in the game. Fuel, Ammo and Mobility are

10 all low, so require constant resupply.

11

12 Its extremely long Gun Range can efectively be 13 used for defense along the right and left borders 14 of the Battlefield Map, where they can see and 15 fire farther (11 cells) than any approaching 16 enemy units.

17

Supply Vehicle

18 19

20 The Supply Vehicles are represented as trucks, 21 and are unable to fire upon the enemy. They do 22 have a huge *Fuel* and *Mobility* range, however.

23

24 They are solely used to resupply *Fuel* and *Ammo* 25 to combat units in the field.

26

27 Because of the low *Defense* of the Supply 28 vehicles, it is important they be keep out of 29 range of enemy fire.

30

31 Supply Trucks are strategically important in 32 OPERATION COM•BAT. Offensive thrusts 33 without the support of supply vehicles fizzle and 34 die, as combat units run out of Fuel and Ammo.

35

36 On the other hand, a player able to destroy his 37 opponent's supply vehicles has struck him a very 38 crippling blow.

Starting OPERATION COM • BAT

OPERATION COM•BAT will begin when you select *New Game* under the *Play* menu. Two small data files load from disk and the game begins.

7

1

8 Note: When playing against another computer 9 both computers must be set to the same 10 Battlefield Map before New Game is selected.

11

12 The side (Red/White or Blue/Black) that is 13 currently chosen on the play menu always 14 begins a game. Once a game has begun, the 15 positions of all friendly units are displayed on 16 the Tactical Grid Map.

17

18 The current unit will always be marked with a 19 surrounding bracket on the Battlefield Map 20 display. And its location will blink on the 21 Tactical Grid map.

22

23 In order to select a different unit as the 24 current unit, point the mouse pointer at a unit 25 in the Battlefield Map display and click the 26 mouse button.

27

28 The Battlefield Map display then realigns itself 29 to the new piece, centering it in the display 30 when possible.

31

The Ordnance Status Table now displays the states for that unit, and all the Command Gadgets reflect the options remaining for that unit.

35

Another unit, in particular those not in view in the Battlefield Map display, can be chosen by selicking the mouse pointer on a friendly unit that is marked on the Tactical Grid Map.

1 Moving Units

The selected ordnance unit that is within the boundaries of the bracket on the Battlefield Map can be ordered to move by simply pointing the mouse pointer to another location in the Battlefield Map display and clicking the mouse button.

9

If the location isn't impassable (occupied by 10 another ordnance unit, trees, water, rock, etc.), 11 Mobility range of that unit, and is within the 12 then the unit will do its best to move to the 13 avoiding location. anv impassable 14 obstructions. 15

16

17 Generally, OPERATION COM•BAT analyzes the 18 move and calculates the best route to reach that 19 destination, taking into consideration the terrain 20 crossed, and the *Mobility* and remaining Fuel of 21 the unit.

22

23 However, the unit will not always reach the 24 destination, because bridges, hills or sand slow 25 the progress of the unit.

26

27 Sometimes the destination lies just outside the 28 unit's *Mobility* range.

29

30 Usually, movement orders that are within the
31 Mobility range of the unit are more likely to be
32 successfully carried out, than those that extend
33 to the farthest reached of the display. Pushing
34 troops beyond their limits can be counter
35 productive.

36

37 Water is always impassable. Sand, dunes, and 38 hills, are passable, but often cause delays to the 39 advancing unit.

1 Where such type terrain must be crossed, it 2 might be necessary to order a unit to move 3 beyond the destination in the hopes that it at 4 least reaches the destination coordinates.

5

The outcome of such moves is variable with the terrain type being crossed. An astute general will be able to evaluate such moves correctly and make appropriate allowances.

Firing Units

11 12

10

13 The game default mode allows each unit to fire 14 once per turn, either before or after a move. If 15 the Double Fire option is enabled under the 16 OPTIONS Menu, then each unit may Fire, Move, 17 and then Fire again.

18

19 Set the Firing Direction by first selecting a 20 compass angle from one of the eight in the 21 Firing Direction Cluster. Then click on the *Fire* 22 gadget to fire the unit.

23

24 When a unit is fired, the shell continues in a 25 straight path until either it:

26 27

28

29

- «» hits the first enemy unit encountered,
- «» reaches its effective Gun Range,
- «» hits an object (Obstructed Mode),
 - «» reaches a Battlefield Map boundary.

30 31

32 It is possible to hit an enemy unit just off the 33 top or bottom of the screen (1 cell row). This is 34 allowed because of the relatively narrow vertical 35 field of view.

36

37 Friendly units never receive damage from 38 friendly unit fire.

- 1 Units hit by incoming enemy fire sustain 2 damage until eventually destroyed.
- The victor in OPERATION COM. BAT is he who
- 5 best uses his fire power.

6 the defensive stats of each enemy 7 Remember

unit. Don't waste a shot of 4 power 8 on 9 enemy unit that could have been destroyed with 10

only a 2 power shot.

Game Options

The Options menu offers game options that can 14 be set before a game is begun and include the 15 following: 16

17 18

11

12 13

3

- **Choose Opponent** «»
- Choose an Side 19 «»
- Select a Computer Play Level 20 «»
- Select a Scenario 21 **«»**
- Set the Turn Timer Length 22 «»
- Select a Firing Protocol 23 **«»**
- Select Firings per Unit per Turn 24 **«»**
- Activate/Deactivate Air Support 25 **«»**

26 27

Choose Opponent 28

29 30

- Options include either a Human opponent or a Computer Opponent, If the Computer opponent 31
- selected, then a Computer Play Level must also 32
- be selected. 33

34

Choose a Side 35

36

The selected army color starts the game, either 37 Blue/Black or Red/White. 38

1 When playing teleconnected with another 2 computer, the player that starts the game by 3 selecting *New Game* receives the chosen side 4 color.

5

Select Computer Level

7

- Three computer play levels are provided,
- 9 Novice, Expert and Master.

11 Select a Scenario

12

10

- 13 Four game scenarios, wherein the ordnance
- 14 placement and number of each ordnance type
- 15 vary, are provided. The number of each ordnance
- 16 type is indicated in the Scenario Table. Each
- 17 scenario subtly changes the strategy and tactics
- 18 used in a game.

19

- 20 When teleconnected, the scenario selected on the
- 21 computer that starts the game will be the
- 22 scenario that is played.

23

- 24 Scenario #1 = 5 of each combat ordnance type 25 and 2 supply vehicles make this the most
- 26 challenging scenario of all to play. Supply is
- 27 always short. It is the longest scenario to play.

28

- 29 **Scenario #2** = 6 Light Armor and 9 Light 30 Artillery make this the fastest of all the game
- 31 scenarios to play. Two supply vehicles are not
- 32 too big a problem.

33

- 34 Scenario #3 = 8 Light Armor and 4 Heavy
- 35 Armor make this a true tank war. 4 supply
- 36 vehicles keep the offensives on the move.

- 38 Scenario #4 = Extra light ordnance and three
- 39 Supply Vehicles, a variation on other scenarios.

Turn Timer Setting

3 The Turn Timer forces the turn to change after

4 a certain number of minutes has elapsed. The

5 timer defaults to 240 seconds.

6

2

7 However, anything from 30 seconds to 600

8 seconds for a Human opponent, or 120 seconds 9 to 600 seconds for a Computer opponent, may be

10 selected.

11

12 The shorter the time allotted, the fewer pieces a 13 player is able to move during the course of a

14 turn.

15

16 Air Support usually plays a big role in games 17 where the time is set to 120 seconds or less.

18

19 Firing Protocol

20

21 Firing Protocol sets a game to be played in 22 either Obstructed or Unobstructed mode.

23

24 In the *Obstructed* mode all shots explode when 25 they contact any Battlefield impediments such as

26 trees, rocks, etc.

27

28 In *Unobstructed* mode shots move unimpeded 29 over Battlefield map objects.

30

31 Fire/Unit/Turn

32

33 This option allows a game to be played with a 34 Single Fire per unit per turn mode, or a Double

35 Fire per unit per turn mode.

36

37 In Double Fire mode units may Fire, Move, then 38 Fire again.

Air Support

2

Air Support may be selected as Activated 3 When Deactivated, the Transmitter Deactivated. 4 is removed from the ordnance units displayed on the Battlefield Map.

7

8 **Battlefield Maps**

Any of the six Battlefield maps may be selected 11 from the Options menu. 12

13

10

different challenge 14 Each offers a in terrain and requires a different 15 strategy successfully master. 16

17

Rocky Canyon presents a semi-arid, mountainous 18 landscape divided by a deep canyon which is 19 always difficult to cross. 20

21

Jungle Ruins presents the tangle of thick jungle 22 carved with narrow, maze-like passageways.

24

Desert Dunes presents an endless vista of dunes 25 that provide no cover and make travel difficult. 26

27

River **Meadow** presents divided territories 28 separated by a river, which can be crossed on a narrow bridge, or on slow access sandbars. 30

31

32 Marshland Bog presents a landscape of marshes, lakes, levies, and bridges. 33

34

35 Archipelagos presents a patchwork of small sandy 36 islands joined by a matrix of rapid transit roadways. 37

38

Playing OPERATION COM • BAT

2
3 First select your choice of Options from the
4 menus. Then select New Game from the Play
5 menu. Operation COM • Bat will begin.

6

7 Note: When playing against another computer 8 both computers must be set to the same 9 battlefield map before New Game is selected.

10

11 At any time during a Human player's turn the 12 game can be stopped by selecting *Cede/End* from 13 the Play Menu.

14

15 A game that was Ended can be continued or 16 Replayed simply be selecting *Continue* or *Replay* 17 from the Play Menu.

18

19 Any game may be saved, then later loaded and 20 Continued or Replayed. However, Replay is 21 disabled whenever the game is played between 22 two computers

23

24 When the game is teleconnected to another 25 computer, every correct move made on one 26 computer is echoed on the other computer.

27

28 The receiving computer, however, does not 29 receive the opponent's Tactical Grid Map display.

30

31 Make a mental note of enemy stats on each unit 32 (call them intelligence reports) and marking the 33 weaker units as good targets.

34

35 Focus your offensive actions, allowing your units 36 to work together towards a common objective. 37 Use the borders of the map to your advantage.

38

1 Keep supply vehicles moving and supplying all 2 units running low on *Fuel* or *Ammo*. An 3 otherwise brilliant offensive attack can come to 4 an ignoble end, if the lead units run out of fuel 5 on a bridge or narrow passageway.

6

7 In *Unobstructed* Mode attacks may come from 8 any location. Learn to *see* possible firing angles 9 for your enemies units, as well as your own.

10

11 In Double Fire Mode even the weaker units are 12 powerful. Think wisely before committing to an 13 unprovoked attack.

14

16

17

18

- 15 Air Support can be called as long as
 - «» The Transmitter is not destroyed
 - «» Less than 5 units have moved
 - «» Less than 5 units have fired.

19 20

Air Support is very powerful weapon that will 21 quickly reduce the enemy's strength. Called 22 too frequently, though, it gives the enemy the 23 opportunity to position units 24 in a offensive. 25

26

Relying solely on Air Support rarely wins a game. However, it just might result in victory for an otherwise losing player, if used frequently at the end of a game.

31 32

Saving and Loading Games

33

34 Games may be saved, and later loaded and 35 Continued or Replayed under the Files menu. 36 Enter the filename of the game you wish to 37 save. Select previously saved games from the 38 list, using the mouse.

TELECOMMUNICATIONS

Playing Between Two Computers

5 6

9

The TeleComm menu provides options relating to 7 play between two computers.

10 11

are four possible teleconnection modes into which your computer may be set:

12 13

- Dial Telephone Number **«»**
- Answer Telephone **«»** 14
 - Null Modem Connect
 - Disconnect «»

16 17

15

The computer will always be set to one 18 these four Telecommunication modes. 19 default is Disconnect when the game begins. 20

21

In order for a player to initiate a teleconnection 22 with another computer, one of the other items 23 must be selected. 24

25 26

27

Dial Telephone Number

This menu selection tells your modem to Dial the 28 Telephone Number you requested (See Modem and 29 Opponent Parameters). 30

31 **Answer Telephone** 32

33

This menu selection designates this computer as 34 the one that waits for and answers the call from 35 the other computer when attempting to establish 36 between two computers. The computer 37 instructs the modem to answer the telephone the next time it rings. 39

Null Modem Connect

2 selection menu instructs **OPERATION** 3 bypass COM • BAT modem 4 to communication and directly connect to another computer via a null modem cable between the serial ports of each. 7

Disconnect

8

10

15

18

20

23

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28 29

34

35

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37

38 39

This menu selection breaks the connection between another computer, previously connected by selecting Dial Telephone #, Answer Telephone, or Null Modem Connect.

14 or Null Modem Connect.

16 Both computers must always select *Disconnect* 17 when a session has ended.

19 Setting Modem and Opponent Parameters

21 Modem and Opponent Parameters may be set 22 from the menus.

OPERATION COM•BAT allows you to save the Modem and Opponent Parameters so they can be recalled instantly when needed.

Modem Parameters

30 These settings can be edited to conform to your 31 modem and saved to the disk, so that each time 32 OPERATION COM•BAT loads it defaults to the 33 requirements of your personal modem.

«» Baud Rate

«» Dial Command Modem Settings

«» Answer Command Modem Settings

Baud Rate - Modem Parameters

3 Baud rates of 300, 1200, 2400 and 9600 may be 4 selected.

5

2

6 Both computers must be set to the same baud 7 rate before a connection can be established.

8

Dial Command - Modem Parameters

10

11 Whenever your modem dials a telephone number, 12 it must first send a signal to your modem that a 13 telephone number is about to be sent.

14

15 If your particular modem, like most, is AT 16 compatible, then either ATDT (for tone dialing) 17 or ATDP (pulse dialing) should be chosen.

18

19 A custom command entry box is provided for any 20 modems with non-standard modem command sets. 21 Note that this entry box may also be used to 22 add AT commands to the dial command.

23

For example, the command ATX6DT will tone dial the phone, returning result codes, which OPERATION COM•BAT can use to inform you that the number was busy, whether a human and not a computer answered the phone, or whether no one answered the phone.

30

31 If characters are displayed in the custom dial 32 command box, then that is the active dialing 33 command.

34

35 Click the box active, then type the command 36 that you require.

37 38

Answer Command - Modem Parameters

5

22

25

26 27

2
3 A modem must be commanded to answer the
4 telephone when it rings.

6 If the modem has a built in auto answer feature, 7 ATS0=1 commands it to pick up the phone after 8 it rings once.

Some older modems will answer, but must be told 11 to pick up the telephone after it rings. The 12 ATA gadget is used in this case.

13
14 If you have selected this answer command, you
15 would not select Answer Telephone menu option
16 until after the telephone rings (See Tele17 connection Procedures).

18
19 A custom command entry box is provided,
20 should your modem answer command differ from
21 those provided.

23 Click/activate the box, then type in the 24 command you require.

Opponent Parameters

28 Opponent Parameters can be entered or edited, 29 and saved to disk so they can be recalled as 30 needed.

31
32 Previously saved Opponent files are listed and
33 may be recalled by first selecting, then loading
34 them with the mouse.

35
36 Each Opponent file contains information specific
37 to establishing a connection with a particular
38 opponent, such as the opponents name, telephone
39 number, and the baud rate that will be used.

Teleconnection Procedure

Playing OPERATION COM•BAT between two computers over the telephone is very easy. OPERATION COM•BAT does all the work of establishing and maintaining the connection, so that the players can concentrate on playing the game.

Before you establish a teleconnection, both of the players must set the Opponent Parameters, or LOAD a previously saved Opponent Parameters file from the disk.

Voice Contact

9

14

15 16

22

27

17 It is recommended that telephone voice contact 18 be first established between the OPERATION 19 COM•BAT players to decide who will Dial the 20 Telephone Number and who will Answer the 21 Telephone.

23 It is also necessary to agree upon the baud rate 24 that will be used for the connection, which 25 should be highest common to both the modems 26 that are being used.

28 After they each hang up the voice call, the 29 player who will answer the call should select 30 Answer Telephone from the menu (if ATS0=1. 31 The Dialing computer waits 30 seconds to be 32 sure his opponent is ready, then selects Dial 33 Telephone Number from the menu.

35 If ATA is the Answer mode, The Player who is 36 dialing should *Dial the Telephone Number* first. 37 The other player then selects Answer Telephone 38 from the menu after his phone rings.

39

Teleconnection Procedure Summary

2 1. Each computer must load **OPERATION** 3 COM • BAT. 4

5

1

2. Set Modem Parameters, if not set.

6 7

8

3. Load or set Opponent Parameters.

9

4. Call your opponent (voice) to decide who 10 will call whom. 11

12

5. Both computers should be on the same map, 13 and not have a game started. 14

15

hanging phone, up the 6. Before players 16 agree that a call will be placed in 15 17 seconds. 18

19

7. If ATS0 = 1is the designated answer 20 command, the player who answers the phone 21 selects Answer Telephone. Then 15 seconds 22 later the other player selects Dial Telephone 23 Number. 24

25

8. If ATA is the designated answer command, 26 player selects Dial 27 the **Telephone** Number. Then the other player selects 28 Telephone when he the Answer 29 telephone ring. 30

31

9. OPERATION COM. BAT will establish the 32 connection between the computers. 33

34

35 10. Players may now type messages to each other. When they are ready, they may select 36 New Game, or load and Continue a saved 37 game that was previously saved. 38

Teleconnection - Another Method

2 few older, non-standard modems 3 answer the phone or recognize the AT command set, and may not initially seem to work 5 OPERATION COM • BAT.

7

You may be still able to play by using the Null 8 Modem Connect option. The connect procedure should be follows used to establish 10 teleconnection under these circumstances. 11

12

The computers must each load and 13 use telecommunication software that works with the 14 respective modems. 15

16

The software should be set to the following 17 18 parameters.

19 20

your baud rate **Baud Rate** =

Parity NONE 21 Data Length 8 bits 22 Stop Bits 1 stop bit 23 =

Duplex = 24

Full Duplex

25

After making a teleconnection between the 26 computers, quit the telecommunication programs. 27 The telephone connection should remain open 28 between the two modems. 29

30

- Load OPERATION COM.BAT on both computers. 31 After it has loaded, the players should select the 32
- Null Modem Connect menu option. 33

34

Wait a sufficient time for both computers to get 35 game loaded and set, then try 36

messages to each other in order to determine if

a connection was successfully established. 38

TROUBLE SHOOTING

The game will not Load

1. Have you sufficient free memory for the game to load?

2. Verify that your working copy of the game disk is not damaged.

The game will not Dial a Telephone

1. Is your modem connected to your computer and powered? Check the connections between computer and modem.

20 2. Are *Modem and Opponent Parameters* set correctly? If not, set the parameters correctly.

3. Is your modem compatible with the AT command set? If not, consult your modem manual for a dial command that might work, and type it into the Dial Command Box.

5. If all else fails, try the procedure outlined under TeleConnection - Another Method.

The game will not Answer the Phone

1. Is your modem connected to your computer and powered? Check the connections between computer and modem.

38 2. Are your Modem Parameters set correctly?39 If not, set the parameters correctly.

- 1 3. Is your modem compatible with the AT command set? If not, consult your modem manual for an answer command that might work, and type it in the Answer Command Box.
- 7 4. Try the ATA command to force the modems to answer the phone.

6

13

23

5. If all else fails, try the procedure outlined under TeleConnection - Another Method.

14 TeleConnected, but Game will not Work

- 16 1. Is the same baud rate set on both computers?
- 20 of the computers? Games should not be started when the teleconnection is first established.
- 3. Are both computers set to the same Map?
 Both computers should select the same map before starting a game.
- 28 4. Do you have Call Waiting? Disable Call
 29 Waiting and try again.
- 31 4. Try hanging up and re-establish phone 32 (voice) contact to verify all modem settings 33 on each computer. Then try again.

Connected & Playing, then No Response

- 2
 3 1. Are you still connected? Check for the
 4 Carrier Detect (CD) light on your modem, if
 5 it has one.
- 7 2. Type in a message. The chime may awaken your sleeping opponent.
- 3. If the SEND message line echoes back to the RECV message line (with some modems), then you are disconnected.

9

13

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28

32

- 4. If you have been disconnected, first 14 Then repeat game. the connect 15 reestablish a connection. procedure to 16 Load the saved game and select Continue. 17 Game play will be picked up where you left 18 off. 19
- Note: If the menus are deactivated when the connection is broken you can click on the Message bar with the mouse to reactivate them.
- 5. If you have Call Waiting, it can cause adisruption of telephone game play.
- Call Waiting should be disabled before attempting to play any game over the telephone.
- If you do not know how to disable *Call*Waiting, please consult your telephone company.

