Bulgarian TO&Es 1980-89 v1.0



BATTLEGROUP CWBU-01 Bulgarian Motor Rifle Division 1980s (ag) BATTLEGROUPS **BATTLEGROUP CWBU-04** x1 Tank Regiment **BATTLEGROUP CWBU-05** x1 Motor Rifle Regiment (Tracked) BATTLEGROUP CWBU-06 x1 Motor Rifle Regiment (Wheeled) 111 BATTLEGROUP CWBU-07 x1 Motor Rifle Regiment (Lorried) **BATTLEGROUP CWBU-09** x1 Reconnaissance Battalion **BATTLEGROUP CWBU-15** x1 Antitank Battalion MANOEUVRE ELEMENTS x1 Engineer Battalion (e)

MANOEUVRE ELEMENT CWBU-15 x5 SAM Battery

FIRE SUPPORT ELEMENTS

FIRE SUPPORT ELEMENT CWBU-01 x1 Divisional Artillery Regiment

(a) Bulgaria was regarded by the USSR and NATO alike, as the most reliable of the Warsaw Pact nations. However, Bulgaria was not a wealthy country and its relative 'backwater' status meant that it received little funding from the USSR. Consequently, the Bulgarian People's Army had no Tank Divisions and only eight Motor Rifle Divisions; 1st Guards, 2nd, 3rd, 7th, 17th, 18th, 19th and 28th Motor Rifle Divisions. However, three of these (1st Guards, 18th and 19th) were high-turnover training formations with very low peacetime manning and obsolete equipment (see BG CWBU-02).

(b) The Bulgarian People's Army formed the Warsaw Pact's 'Bulgarian Front' which was 100% Bulgarian, with no Soviet formations or combat support units present. The Front was divided into two Combined Arms Armies, designated 2nd & 3rd Bulgarian Armies. However, as can be seen here, neither Army had the full range of assets found in a Soviet Combined Arms Army. Front assets included **x1 Air Assault Regiment** (BG CWBU-08), **x2 Army Artillery Regiments** (FSE CWBU-08), **x4 Antiaircraft Batteries** (ME CWBU-16), **x10 SAM Battery** (ME CWBU-15) and an **Assault Helicopter Regiment** consisting of **x4 Mi-2** 'Hoplite' Observation Helicopter (CWWP-116), **x8 Mi-4** 'Hound' Transport Helicopter (CWWP-117), **x8 Mi-8** 'Hip' Assault Transport Helicopter (CWWP-118) and **x12 Mi-24** 'Hind D' Attack Helicopter (CWWP-122). Again, this fell well short of the range of assets found in a Soviet Front.

(c) The Bulgarian Army had no Tank Divisions. Instead, it had five independent Tank Brigades (9th, 5th, 11th, 13th and 24th). Each Tank Brigade would normally operate alongside one of the five regular Motor Rifle Divisions.



(d) Lots and lots of engineering assets that would not normally feature in a game.

(e) An Army Reconnaissance Battalion was generally organised exactly the same as a Divisional Reconnaissance Battalion, though there were many organisational differences in Warpac recce units at all levels and it remains a very complicated area of research.

(f) The Divisional Engineer Battalion had a single Divisional Sapper Company that could be considered an ME for game purposes (ME CWBU-19), while the rest of the battalion consisted of road-building, bridging, amphibian, position preparation and demolition equipment, which is unlikely to feature very heavily in a game.

(g) There is no mention in any of my sources of the Helicopter Squadron that would normally be found in a Warsaw Pact division. Of course, this does not mean that it was not present. May therefore add:

x2 Mi-2 'Hoplite' Observation Helicopter	CWWP-116
x2 Mi-4 'Hound' Transport Helicopter (h)	CWWP-117
x2 Mi-24 'Hind A' Attack Helicopter (i)	CWWP-121
(h) May replace Mi-4 'Hound' with: Mi-8 'Hip C' Transport Helicopter	CWWP-119
(i) May replace Mi-24 'Hind A' with: Mi-24 'Hind D' Attack Helicopter	CWWP-122

BATTLEGROUP CWBU-02

Bulgarian Motor Rifle (Training) Division 1980s (a)



BATTLEGROUPS I **BATTLEGROUP CWBU-04** x1 Tank Regiment BATTLEGROUP CWBU-07 x3 Motor Rifle Regiment (Lorried) **BATTLEGROUP CWBU-09** x1 Reconnaissance Battalion **BATTLEGROUP CWBU-15** x1 Antitank Battalion

MANOFUVRE FLEMENTS x1 Engineer Battalion (e)

MANOEUVRE ELEMENT CWBU-16 x4 Antiaircraft Battery

FIRE SUPPORT ELEMENTS FIRE SUPPORT ELEMENT CWBU-01 x1 Divisional Artillery Regiment

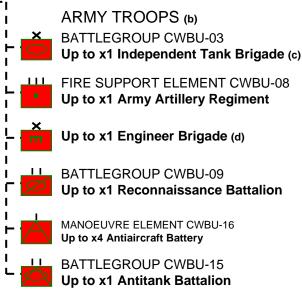
(a) On paper, the Bulgarian People's Army had eight Motor Rifle Divisions: 1st Guards, 2nd, 3rd, 7th, 17th, 18th, 19th and 28th Motor Rifle Divisions. However, three of these (1st Guards, 18th and 19th) were high-turnover training formations with very low peacetime manning and obsolete equipment.

(b) The Bulgarian Army formed the Warsaw Pact's 'Bulgarian Front' which was 100% Bulgarian. The Front was divided into two Combined Arms Armies, designated 2nd & 3rd Bulgarian Armies. Neither Army had the full range of assets found in a Soviet Combined Arms Army. Front assets included x1 Air Assault Regiment (BG CWBU-08), x2 Army Artillery Regiments (FSE CWBU-08), x4 Antiaircraft Batteries (ME CWBU-16), x10 SAM Battery (ME CWBU-15) and an Assault Helicopter Regiment consisting of x4 Mi-2 'Hoplite' Observation Helicopter (CWWP-116), x8 Mi-4 'Hound' Transport Helicopter (CWWP-117), x8 Mi-8 'Hip' Assault Transport Helicopter (CWWP-118) and x12 Mi-24 'Hind D' Attack Helicopter (CWWP-122). There was also a single Marine Infantry Battalion (BG CWBU-14) available for operations on the Black Sea coast.

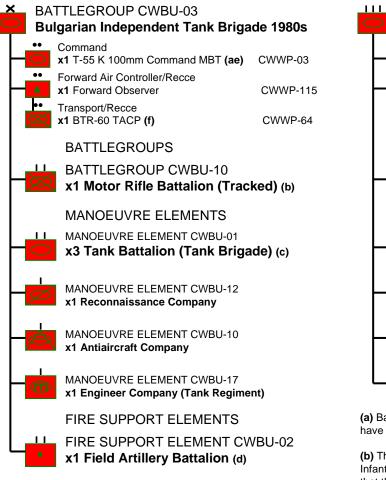
(c) The Bulgarian Army had no Tank Divisions. Instead, it had five independent Tank Brigades (9th, 5th, 11th, 13th and 24th). Each Tank Brigade would normally operate alongside one of the five regular Motor Rifle Divisions, though there is the slim chance that they might have offered support to the Training Divisions, should they ever take to the field.

(d) Lots and lots of engineering assets that would not normally feature in a game.

(e) An Army Reconnaissance Battalion was generally organised exactly the same as a Divisional Reconnaissance Battalion, though there were many organisational differences in Warpac recce units at all levels and it remains a very complicated area of research.



(f) The Divisional Engineer Battalion had a single Divisional Sapper Company that could be considered an ME for dame purposes (ME CWBU-19), while the rest of the battalion consisted of road-building, bridging, amphibian, position preparation and demolition equipment, which is unlikely to feature very heavily in a game.



(a) Mid-1980s: Replace Brigade Commander's tank with: T-72 MK 125mm Command Tank (e) CWWP-11

(b) Unlike the Soviet Independent Tank Brigades, Bulgarian Tank Brigades had an integral Motor Rifle Battalion. These battalions were probably re-equipped with the BMP-1 Infantry Combat Vehicles (two battalions' worth) that Bulgaria purchased from the USSR, as well as the home-grown BMP-23 (three battalions' worth being built).

(c) These Tank Battalions were stronger than those of Tank Regiments, having four companies instead of three. Note that Bulgaria purchased enough T-72 M tanks to equip five battalions. It seems likely that one battalion in each of the five Tank Brigades would have been converted to T-72 M.

(d) Although I can't find any reference to the Bulgarians having self-propelled artillery during the 1980s, they were manufacturing significant numbers of 2S1 SP 122mm howitzers. The Field Artillery Battalion may therefore be upgraded to a Self-Propelled Field Artillery Battalion during the mid/late 1980s (see FSE CWBU-02).

(e) Battalion and Regimental command tanks ('K' models) do not have AAMGs.

(f) May replace with: MTLB Armoured Carrier CWWP-90

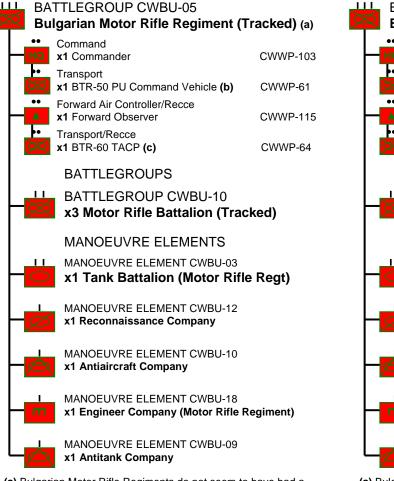
BATTLEGROUP CWBU-04 **Bulgarian Tank Regiment 1980s** Command x1 T-55 K 100mm Command MBT (a) CWWP-03 •• Forward Air Controller/Recce x1 Forward Observer **CWWP-115** ŀ۰ Transport/Recce x1 BTR-60 TACP (d) CWWP-64 BATTLEGROUPS **BATTLEGROUP CWBU-10** x1 Motor Rifle Battalion (Tracked) (b) MANOEUVRE ELEMENTS MANOFUVRE ELEMENT CWBU-02 x3 Tank Battalion (Tank Regiment) (c) MANOEUVRE ELEMENT CWBU-12 x1 Reconnaissance Company MANOEUVRE ELEMENT CWBU-10 x1 Antiaircraft Company MANOEUVRE ELEMENT CWBU-17 x1 Engineer Company (Tank Regiment) (a) Battalion and Regimental command tanks ('K' models) do not have AAMGs.

(b) The Bulgarians only acquired enough BMP-1 and BMP-23 Infantry Combat Vehicles to equip five battalions, so it seems likely that they were used to equip the Motor Rifle Battalions of the five Tank Brigades. The remaining tracked Motor Rifle Regiments probably soldiered on with their ancient BTR-50 APCs until replacing them with home-grown MT-LB armoured carriers (of which Bulgaria built over 1,000).

(c) In Training Motor Rifle Divisions, one Tank Battalion in each Tank Regiment will be equipped with T-34 tanks. The remainder are all equipped with T-55 (assuming that the five battalions of T-72 went to the Independent Tank Brigades).

(d) May replace with: MTLB Armoured Carrier

CWWP-90



(a) Bulgarian Motor Rifle Regiments do not seem to have had a permanently-assigned Field Artillery Battalion. However, a battalion would undoubtedly have been assigned from the **Divisional Artillery Regiment.**

(b) May replace regimental commander's BTR-50 with: MTLB Armoured Carrier CWWP-90

(c) May replace FAC's BTR-60 with:	
BTR-50 PK Armoured Personnel Carrier	CWWP-28
MTLB Armoured Carrier	CWWP-90

BATTLEGROUP CWBU-06

Bulgarian Motor Rifle Regiment (Wheeled) (a)		
HQ	Command x1 Commander	CWWP-103
⋈	Transport x1 BTR-60 PU Command Vehicle	CWWP-62
••	Forward Air Controller/Recce	

••

x1 Forward Observer **CWWP-115** Transport/Recce x1 BTR-60 TACP CWWP-64

BATTLEGROUPS



BATTLEGROUP CWBU-11 x3 Motor Rifle Battalion (Wheeled)

MANOEUVRE ELEMENTS

MANOEUVRE ELEMENT CWBU-03 x1 Tank Battalion (Motor Rifle Regt)



MANOEUVRE ELEMENT CWBU-12 x1 Reconnaissance Company



MANOEUVRE ELEMENT CWBU-10 x1 Antiaircraft Company



MANOEUVRE ELEMENT CWBU-18 x1 Engineer Company (Motor Rifle Regiment)



MANOEUVRE ELEMENT CWBU-09 x1 Antitank Company

(a) Bulgarian Motor Rifle Regiments do not seem to have had a permanently-assigned Field Artillery Battalion. However, a battalion would undoubtedly have been assigned from the **Divisional Artillery Regiment.**



(a) Bulgarian Motor Rifle Regiments do not seem to have had a permanently-assigned Field Artillery Battalion. However, a battalion would undoubtedly have been assigned from the Divisional Artillery Regiment.

BATTLEGROUP CWBU-08 Bulgarian Air Assault Regiment

Command

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x1 CommanderCWWP-103TransportTransportx1 UAZ-469 Light Utility VehicleCWWP-86Forward Air Controller/RecceCWWP-115Transport/RecceCWWP-115Transport/RecceCWWP-86

BATTLEGROUPS



BATTLEGROUP CWBU-13 x3 Air Assault Infantry Battalion

MANOEUVRE ELEMENTS



MANOEUVRE ELEMENT CWBU-20 x1 Airborne Antiaircraft Company



MANOEUVRE ELEMENT CWBU-21 x1 Airborne Engineer Company



MANOEUVRE ELEMENT CWBU-22 x1 Airborne Antitank Company



MANOEUVRE ELEMENT CWBU-23 x1 Airborne Mortar Company

Reconnaissance Battalion	
Command/Recce x1 BRDM-1 Scout Car (a)	CWWP-54
Forward Air Controller/Recce x1 Forward Observer	CWWP-115
 Transport/Recce x1 BRDM-1 Scout Car (b) 	CWWP-54
MANOEUVRE ELEMENTS	
ME CWWP-17 x1 or x2 Heavy Reconnaissance Com	pany
ME CWWP-16 x1 Scout Car Company	
ATTACHMENTS	
Recce x2 BRDM-2 RKh NBC Recce Vehicle (c)	CWWP-59
(a) May replace command vehicle with: BTR-40 Scout Car BRDM-2 U Command Scout Car MTLB Armoured Carrier	CWWP-26 CWWP-60 CWWP-90
(b) May replace FAC's transport with: BTR-40 Scout Car BTR-60 TACP	CWWP-26 CWWP-64
(c) Late 1980s: May replace BRDM-2 RKh with: MTLB-RHR NBC Recce Vehicle us	se CWWP-90

BA	TTLEGROUP CWBU-10	
🕰 Ma	otor Rifle Battalion (Tracked)	
HQ	Command x1 Commander	CWWP-103
	Transport x1 BTR-50 PU Command Vehicle (ab)	CWWP-61
	Forward Air Controller/Recce x1 Forward Observer	CWWP-115
	Transport/Recce x1 BTR-60 TACP (c)	CWWP-64
	MANOEUVRE ELEMENTS	
	MANOEUVRE ELEMENT CWBU-04 x3 Motor Rifle Company (Tracked)	
	ATTACHMENTS Organic Fire Support x4 M-43 82mm Mortar (de)	CWWP-111
]	Transport x4 GAZ-66 Medium Truck (c)	CWWP-87
	x1 B-10 82mm Recoilless Rifle (fh)	CWWP-81
	x2 AT-3 'Sagger' ATGM Team (gh)	CWWP-96
	Transport x1 BTR-50 PK APC (bh)	CWWP-28
	Up to x1 AT-7 'Saxhorn' ATGM Team (hi)	CWWP-98
(a) In Tank Brigades from early 1980s: Replace BTR-50 APC with: BMP-1 73mm Infantry Combat Vehicle CWWP-34		
Alternative BMP-2	a. 3 23mm Infantry Combat Vehicle	CWWP-38

(b) In Motor Rifle Battalions that are not equipped with BMP, may replace BTR-50 APCs with: MT

TLB Armoured Carrier	CWWP-90

(c) May replace FAC's transport and/or Mortar Platoon transport with:

MTLB Armoured Carrier (e)	CWWP-90
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(d) May replace x2 or x4 M-43 82mm Mortars with: M-43 120mm Mortar (e) **CWWP-113**

(e) The Bulgarians developed 82mm and 120mm self-propelled mortar carrier variants of the MTLB Carrier. However, I am not sure if these ever entered service with the Bulgarian Army during the 1980s. If they did, they would probably have seen service first in the BMP-equipped Motor Rifle Battalions of the Tank Brigades. Mortars may therefore be fired from their MTLBs when mounted in BMP-equipped battalions.

- (f) B-10 82mm Recoilless Rifle may be replaced with: SPG-9 73mm Recoilless Rifle CWWP-80
- (g) Late 1980s: AT-3 'Sagger' ATGMs may be replaced with: AT-4 'Spigot' ATGM Team CWWP-97

(h) In BMP-equipped battalions, delete all recoilless rifle and ATGM units and their transport (BMPs have their own ATGMs).

(i) AT-7 'Saxhorn' is only available in the late 1980s, to some units that have not been equipped with BMP. The AT-7 Team must be attached to one of the battalion's Motor Rifle Companies and is transported by the company transport.

\sim	BATTLEGROUP CWBU-11 Motor Rifle Battalion (Wheeled)	
	Command x1 Commander	CWWP-103
	 Transport x1 BTR-60 PU Command Vehicle (a) 	CWWP-62
	Forward Air Controller/Recce x1 Forward Observer	CWWP-115
	Transport/Recce x1 BTR-60 TACP (a)	CWWP-64
	MANOEUVRE ELEMENTS	
	MANOEUVRE ELEMENT CWBU-05 x3 Motor Rifle Company (Wheeled)	
	ATTACHMENTS	
	Organic Fire Support x4 M-43 82mm Mortar (b)	CWWP-111
	Transport x4 GAZ-66 Medium Truck (c)	CWWP-87
	x1 B-10 82mm Recoilless Rifle (e)	CWWP-81
	x2 AT-3 'Sagger' ATGM Team (f)	CWWP-96
	Transport x1 BTR-60 PB APC (d)	CWWP-28
	Up to x1 AT-7 'Saxhorn' ATGM Team (g)	CWWP-98
(a) May replace commander's and FAC's transport with obsolete vehicles:		
	s. -40 Scout Car	CWWP-26

venicies.	
BTR-40 Scout Car	CWWP-26
BTR-152 Armoured Personnel Carrier	CWWP-27

- (b) May replace x2 or x4 M-43 82mm Mortars with: M-43 120mm Mortar (e) CWWP-113
- (c) May replace Mortar Platoon transport with: MTLB Armoured Carrier CWWP-90
- (d) May replace Antitank Platoon transport with obsolete vehicles:BTR-152 Armoured Personnel CarrierCWWP-27BTR-60 P Armoured Personnel CarrierCWWP-29BTR-60 PA Armoured Personnel CarrierCWWP-30
- (e) B-10 82mm Recoilless Rifle may be replaced with: SPG-9 73mm Recoilless Rifle CWWP-80
- (f) Late 1980s: AT-3 'Sagger' ATGMs may be replaced with: AT-4 'Spigot' ATGM Team CWWP-97

(g) AT-7 'Saxhorn' is only available to a few units in the late 1980s. The AT-7 Team must be attached to one of the battalion's Motor Rifle Companies and is transported by the company transport.

	ATTLEGROUP CWBU-12 ptor Rifle Battalion (Lorried)	
HQ	Command x1 Commander	CWWP-103
	Transport x1 UAZ-469 Light Utility Vehicle	CWWP-86
	Forward Air Controller/Recce x1 Forward Observer	CWWP-115
	Transport/Recce x1 UAZ-469 Light Utility Vehicle	CWWP-86
	MANOEUVRE ELEMENTS	
	MANOEUVRE ELEMENT CWBU-06 x3 Motor Rifle Company (Lorried)	
	ATTACHMENTS	
- –	Organic Fire Support x4 M-43 82mm Mortar (a)	CWWP-111
	Transport x4 GAZ-66 Medium Truck	CWWP-87
	x3 B-10 82mm Recoilless Rifle (b)	CWWP-81
	Transport x1 GAZ-66 Medium Truck	CWWP-87
	x3 ZPU-2 Twin 14.5mm AA Gun (c)	CWWP-162
•• ••	Transport x3 GAZ-66 Medium Truck (c)	CWWP-87
., ,	eplace x2 or x4 M-43 82mm Mortars with: 120mm Mortar (e)	CWWP-113
(b) May r	eplace x2 B-10 Recoilless Rifles with:	

(b) May replace x2 B-10 Recoilless Rifles with: AT-3 'Sagger' ATGM Team

CWWP-96

(c) ZPU-2 AA Guns are only present in those battalions that do not have man-portable SAMs in their Motor Rifle Companies. A battalion may not therefore, possess both AA guns AND light SAMs. See ME CWBU-06.

BATTLEGROUP CWBU-13 Air Assault Infantry Battalion

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2	Command x1 Commander	CWWP-103
	Transport x1 UAZ-469 Light Utility Vehicle	CWWP-86
, •	Forward Air Controller/Recce x1 Forward Observer	CWWP-115
	Transport/Recce x1 UAZ-469 Light Utility Vehicle	CWWP-86

MANOEUVRE ELEMENTS

MANOEUVRE ELEMENT CWBU-07 x3 Parachute Infantry

ATTACHMENTS

•	Organic Fire Support	
	x3 M-43 82mm Mortar	CWWP-111
	x3 AT-3 'Sagger' ATGM Team (a)	CWWP-96

(a) Late 1980s: May replace AT-3 'Sagger' Teams with: AT-4 'Spigot' ATGM Team CWWP-97

BATTLEGROUP CWBU-14 Marine Infantry Battalion

	rine infantry battalion	
 НО	Command x1 Commander	CWWP-103
••	Transport x1 BTR-60 PU Command Vehicle (a)	CWWP-62
	Forward Air Controller/Recce x1 Forward Observer	CWWP-115
•• X	Transport/Recce x1 BTR-60 TACP (a)	CWWP-64
	MANOEUVRE ELEMENTS	
	MANOEUVRE ELEMENT CWBU-08 x3 Marine Infantry Company	
	ATTACHMENTS	
	Organic Fire Support x4 M-43 82mm Mortar (b)	CWWP-111
	Transport x4 GAZ-66 Medium Truck (a)	CWWP-87
	x1 B-10 82mm Recoilless Rifle (c)	CWWP-81
	x2 AT-3 'Sagger' ATGM Team (d)	CWWP-96
Þ•	Transport x1 BTR-60 PB APC (a)	CWWP-28
	place some or all transport with: Armoured Carrier	CWWP-90
	place x2 or x4 M-43 82mm Mortars with: 20mm Mortar	CWWP-113
• •	2mm Recoilless Rifle may be replaced with 73mm Recoilless Rifle	: CWWP-80
	980s: AT-3 'Sagger' ATGMs may be replac Spigot' ATGM Team	ed with: CWWP-97

BATTLEGROUP CWBU-15 Antitank Battalion •• Command x1 Commander

•• Transport x1 MTLB Armoured Carrier (a)

CWWP-90

MANOEUVRE ELEMENTS

MANOEUVRE ELEMENT CWBU-11 x3 Antitank Gun Company (b)

(a) In training divisions, replace transport with: UAZ-469 Light Utility Vehicle

CWWP-86

CWWP-103

(b) In some units, may replace x1 Antitank Gun Company with x1 Antitank Company (ME CWBU-09).

MANOEUVRE ELEMENT CWBU-01 Tank Battalion (Tank Brigade) (b)

	Command x1 T-55 K 100mm Command MBT (ac)	CWWP-03
Lö	x16 T-55 100mm MBT (bc)	CWWP-03

(a) In early 1980s: The Bulgarians purchased sufficient T-72s for five Tank Battalions. It therefore seems likely that these tanks were used to re-equip one battalion per Tank Brigade. May therefore replace all T-55s with:

•	
T-72 M 125mm Main Battle Tar	k CWWP-11

(b) Bulgarian Tank Battalions generally operate as single MEs, in line with Soviet doctrine. However, one company of x4 tanks may be detached from each Tank Battalion as a separate ME (designate one tank as the Company Commander).

(c) Regimental and Battalion Command Tank ('K') variants do not have AAMGs.



(a) In Training Divisions, the third battalion of the division's tank regiment was equipped with T-34s. Therefore, replace all T-55s in those battalions with:

T-34/85 85mm Medium Tank	CWWP-02
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(b) Bulgarian Tank Battalions generally operate as single MEs, in line with Soviet doctrine. However, one company of x4 tanks may be detached from each Tank Battalion as a separate ME (designate one tank as the Company Commander).

(c) Regimental and Battalion Command Tank ('K') variants do not have AAMGs.



(a) In Training Divisions, replace all T-55s with: T-34/85 85mm Medium Tank

CWWP-02

(b) Bulgarian Tank Battalions generally operate as single MEs, in line with Soviet doctrine. However, the battalion may be split into three Tank Company MEs, each of **x6** tanks (designate one tank in each ME as the Company Commander). Each Tank Company ME must be attached to one of the regiment's Motor Rifle Battalions.

(c) Regimental and Battalion Command Tank ('K') variants do not have AAMGs.

MANOEUVRE ELEMENT CWBU-04 Motor Rifle Company (Tracked)

Command X1 Commander	CWWP-103
x1 SA-7 'Grail' SAM Team (a)	CWWP-99
x9 Early Motor Rifles (3 RPG)	CWWP-105
 Transport x4 BTR-50 PK APC (bc) 	CWWP-31

- (a) Mid-1980s: May replace SA-7 'Grail' SAM Team with: SA-14 'Gremlin' SAM Team CWWP-100 Or in late 1980s with: SA-16 'Gimlet' SAM Team CWWP-101
- (b) In Tank Brigades from early 1980s: Replace BTR-50 APC with: BMP-1 73mm Infantry Combat Vehicle CWWP-34 Alternative:

BMP-23 23mm Infantry Combat Vehicle CWWP-38

(c) BMPs (even the home-grown Bulgarian BMP-23) were very expensive compared to the more traditional types of APC. Consequently, the Bulgarians began manufacturing the much cheaper MTLB under licence. May therefore replace the BTR-50 APCs with:

MTLB Armoured Carrier CWWP-90

X	MANOEUVRE ELEMENT CWBU-05 Motor Rifle Company (Wheeled)	
	Command x1 Commander	CWWP-103
	x1 SA-7 'Grail' SAM Team (a)	CWWP-99
	x9 Early Motor Rifles (3 RPG)	CWWP-1045
	Transport x4 BTR-60 PB APC (b)	CWWP-31

(a) Mid-1980s: May replace SA-7 'Grail' SAM Team with: SA-14 'Gremlin' SAM Team CWWP-100 Or in late 1980s with: SA-16 'Gimlet' SAM Team CWWP-101

(b) The Bulgarians remained very short of APCs, so obsolete models remained in service well beyond their sell-by date. May therefore replace the BTR-60 PBs in some units with:

BTR-152 Armoured Personnel Carrier	CWWP-27
BTR-60 P Armoured Personnel Carrier	CWWP-28
BTR-60 PA Armoured Personnel Carrier	CWWP-29

\geq		ANOEUVRE ELEMENT CWBU-06 otor Rifle Company (Lorried)	
	-HQ	Command x1 Commander	CWWP-103
	- <mark> </mark>	x1 SA-7 'Grail' SAM Team (a)	CWWP-99
	- <u>+</u> •	x9 Early Motor Rifles (3 RPG)	CWWP-105
	••	Transport x3 Ural 375 Heavy Truck	CWWP-88

(a) It is entirely likely that SAMs and other heavy weapons were in short supply to units so low down the pecking order. See BG CWBU-12.



(a) Mid-1980s: May replace SA-7 'Grail' SAM Team with:		
SA-14 'Gremlin' SAM Team	CWWP-100	
Or in late 1980s with:		
SA-16 'Gimlet' SAM Team	CWWP-101	

(b) AT-7 'Saxhorn' is only available in late 1980s.

	ANOEUVRE ELEMENT CWBU-08 Arine Infantry Company	
	x1 Command	CWWP-103
	x1 SA-7 'Grail' SAM Team (a)	CWWP-99
	x9 Early Motor Rifles (3 RPG)	CWWP-105
	Transport x4 BTR-60 PB APC (b)	CWWP-31
SA-1	1980s: May replace SA-7 'Grail' SAM Team v 4 'Gremlin' SAM Team e 1980s with:	vith: CWWP-100
	6 'Gimlet' SAM Team	CWWP-101

(b) Late 1980s: One source suggests that the Bulgarian Marines switched to tracked APCs, though most state that the BTR-60 remained. May therefore replace BTR-60s with: CWWP-90

MTLB Tracked Carrier

	DEUVRE ELEMENT (ank Company	CWBU-09	
	ommand BRDM-1 Scout Car (ac)		CWWP-53
L <u>.</u> x3	9P110 (BRDM-1) ATGM \	/ehicle (bcd)	CWWP-69
., , ,	ce command vehicle with: I Command Scout Car		CWWP-60
9P122 (BR Or in late 198	ce all 9P110 ATGM Vehicle RDM-2/ AT-3 'Sagger') ATG 0s in some units with: RDM-3/ AT-5 'Spandrel') AT	GM Vehicle	CWWP-70 CWWP-71
x1 Comma x3 B-11 10	aining units, replace this or ander)7mm Recoilless Rifle) Light Utility Vehicle	0	ith: CWWP-103 CWWP-82 CWWP-86

(d) Regimental Antitank Companies may be split up as individual attachments to units within the regiment.

MANOEUVRE ELEMENT CWWBU-10 Antiaircraft Company (c) Command x1 BTR-60 PU 12 AA Command Vehicle CWWP-63

X	XI BIR-60 PU 12 AA Command Venicie	CWWP-63
- <mark>¤</mark>	x2 SA-9 'Gaskin' SAM Vehicle (ad)	CWWP-23
	x2 ZSU-57-2 AA Vehicle (bd)	CWWP-16

- (a) From mid-1980s in the Tank Brigades: Replace SA-9 with: SA-13 'Gopher' SAM Vehicle
- CWWP-25

(b) In the Tank Brigades: Replace ZSU-57-2 with: CWWP-17

(c) In some units (particularly the training divisions), replace this organisation with the following:

ZSU-23-4 'Shilka' AA Vehicle

x1 Commander	CWWP-103
x2 SA-7 'Grail' SAM Team (de)	CWWP-99
x3 UAZ-469 Light Utility Vehicle	CWWP-86
x2 ZU-23-2 Twin 23mm Antiaircraft Gun (d)	CWWP-83
x2 GAZ-66 Medium Truck	CWWP-87

(d) Regimental Antiaircraft Companies may be split up as individual attachments to other units within the regiment.

(e) Mid-1980s: May replace SA-7 'Grail' SAM Team with:		
SA-14 'Gremlin' SAM Team	CWWP-100	
Or in late 1980s with:		
SA-16 'Gimlet' SAM Team	CWWP-101	

MANOEUVRE ELEMENT CWBU-11 Antitank Gun Company (b)

 <mark>но</mark>	Command x1 Commander	CWWP-103
	Transport x1 MTLB Armoured Carrier (c)	CWWP-90
L <u></u>	x2 D-44 85mm Antitank Gun (a)	CWWP-77
ŀ	Transport x2 MTLB Armoured Carrier (c)	CWWP-90

(a) In some divisions, may replace the antitank guns with: x2 MT-12 100mm Antitank Gun CWWP-77

(b) Some Antitank Gun Companies were self-propelled and equipped with obsolete SU-100 Assault Guns. Replace this organisation with the following:

x1 Command SU-100 100mm Assault Gun	CWWP-14
x2 SU-100 100mm Assault Gun	CWWP-14
(c) In training divisions, replace transport with:	

x1 UAZ-469 Light Utility Vehicle CWWP-86 x2 Ural 375 Heavy Truck CWWP-88

MANOEUVRE ELEMENT CWBU-12 Reconnaissance Company



- (a) The armoured cars may alternatively be obsolete types such as: BTR-40 Scout Car CWWP-26 BRDM-1 Scout Car CWWP-54 There was sometimes a dismountable element, in which case, add: x1 Commander CWWP-103
 - x2 Early Motor Rifles (no RPG)

MANOEUVRE ELEMENT CWBU-13 Scout Car Company

Command/Recce

••

x1 BRDM-2U Command Armoured Car (a) CWWP-60 Recce

CWWP-105

x6 BRDM-2 Armoured Car (a) CWWP-55

(a) The armoured cars may alternatively be obsolete types such as: BTR-40 Scout Car BRDM-1 Scout Car CWWP-54

MANOEUVRE ELEMENT CWBU-14 Heavy Reconnaissance Company

••	Command/Recce x1 BRDM-2U Command Armoured Car (a	a) CWWP-60
	Recce x2 PT-76 76mm Light Tank	CWWP-01
•• Ø	Recce x2 BRDM-2 Armoured Car (a)	CWWP-55
•••	Recce x1 T-55 100mm Main Battle Tank (b)	CWWP-03
	Recce x1 PK Light Machine Gun	CWWP-109
þ•	Transport/Recce x1 Dnepr M-750M Motorcycle Combination	onCWWP-85
e armoured cars may alternatively be obsolete types such as: R-40 Scout Car CWWP-26		

(a) The armoured cars may alternatively be obsolete types such as:		
BTR-40 Scout Car	CWWP-26	
BRDM-1 Scout Car	CWWP-54	
There was sometimes a dismountable element, in which case, add:		
x1 Commander	CWWP-103	
x2 Early Motor Rifles (no RPG)	CWWP-105	

(b) In training divisions, replace T-55 with: T-34/85 85mm Medium Tank CWWP-01

MANOEUVRE ELEMENT CWBU-15

•• Command **x1** BTR-60 PU

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x1 BTR-60 PU 12 AA Command Vehicle CWWP-63

x2 SA-6 'Gainful' SAM Vehicle (ab) CWWP-21

- (a) From mid-1980s: May replace SA-6 in a few units with: SA-8 'Gecko' SAM Vehicle CWWP-22
- (b) In one of the two Army SAM Regiments, replace SA-6 with: SA-4 'Ganef' SAM Vehicle CWWP-20

MANOEUVRE ELEMENT CWBU-16 Antiaircraft Battery

•• — <mark>HQ</mark>	Command x1 Commander	CWWP-103
▶• ■	Transport x1 UAZ-469 Light Utility Vehicle	CWWP-86
	x3 S-60 57mm Antiaircraft Gun	CWWP-84
•• •••	Transport x3 Ural 375 Heavy Truck	CWWP-88

MANOEUVRE ELEMENT CWBU	••
•• Command ••• Commander	CWWP-103
x1 SA-7 'Grail' SAM Team (ac)	CWWP-99
x3 Sappers (1 flame 1 RPG)	CWWP-114
x2 BTR-50 PK APC (b)	CWWP-28
x2 TMM Bridgelayer	CWWP-91
x3 MTU Bridgelayer (c)	CWWP-92
x1 BAT-M Bulldozer	CWWP-93
x1 IMR Combat Engineer Tractor (c)	CWWP-134
(a) Mid-1980s: May replace SA-7 'Grail' SAM wi SA-14 'Gremlin' SAM Team In late 1980s: May replace with:	th: CWWP-100
SA-16 'Gimlet' SAM Team	CWWP-101
(b) From mid-1980s: Replace BTR-50 APCs with: MTLB Armoured Carrier CWV Or in training divisions, replace with:	
GAZ-66 Medium Truck	CWWP-87

(c) Training divisions probably did not have such a generous supply of MTU Bridgelayers, SAMs and IMR Combat Engineer Tractors.

MANOEUVRE ELEMENT CWBU-18 Engineer Company (Motor Rifle Regt)			
•• Command 	CWWP-103		
x1 SA-7 'Grail' SAM Team (ac)	CWWP-99		
x3 Sappers (1 flame 1 RPG)	CWWP-114		
x2 BTR-50 PK APC (b)	CWWP-28		
•• x2 TMM Bridgelayer	CWWP-91		
•• x1 MTU Bridgelayer (c)	CWWP-92		
•• x1 BAT-M Bulldozer	CWWP-93		
•• x1 BTM Trench-Digger	CWWP-94		
(a) Mid-1980s: May replace SA-7 'Grail' SAM with: SA-14 'Gremlin' SAM Team CWWP-100			
In late 1980s: May replace with: SA-16 'Gimlet' SAM Team	CWWP-101		
(b) Replace with wheeled APCs in Wheeled Motor Rifle			
Regiments: BTR-152 Armoured Personnel Carrier	CWWP-27		
BTR-60 P Armoured Personnel Carrier	CWWP-28		
BTR-60 PA Armoured Personnel Carrier	CWWP-29		
BTR-60 PB Armoured Personnel Carrier CWWP-30			
From mid-1980s: Replace all APCs with: MTLB Armoured Carrier CWWP-90			
Or in training divisions, replace with:			
GAZ-66 Medium Truck	CWWP-87		

(c) Training divisions probably did not have such a generous supply of MTU Bridgelayers or SAMs

MANOEUVRE ELEMENT CWBU-19 **Divisional Sapper Company** (a)

 HQ	Command x1 Commander	CWWP-103
	x1 SA-7 'Grail' SAM Team (b)	CWWP-99
	x9 Sappers (3 flame 3 RPG)	CWWP-114
	x4 BTR-50 PK APC (c)	CWWP-28
- •	x4 TMM Bridgelayer	CWWP-91
- <mark>•</mark>	x1 MTU Bridgelayer	CWWP-92
- •	x1 BAT-M Bulldozer	CWWP-93
- •	x1 GMZ Mine-Layer	CWWP-95
L	Recce x1 BRDM-2 Armoured Car (d)	CWWP-55

(a) The Battalion Recce Platoon and Bridging Platoon have been incorporated in the ME above.

(b) Mid-1980s: May replace SA-7 'Grail' SAM with:			
SA-14 'Gremlin' SAM Team	CWWP-100		
In late 1980s: May replace with: SA-16 'Gimlet' SAM Team			
SA-10 Gimiel SAW Team	CWWP-101		
(c) Replace BTR-50 APCs with:			
MTLB Armoured Carrier	CWWP-90		
Or in training divisions, replace with:			
GAZ-66 Medium Truck	CWWP-87		
(d) The armoured care may alternatively be checkets types			

(d) The armoured cars may alternatively be obsolete ty	ypes:
BTR-40 Scout Car	CWWP-26
BRDM-1 Scout Car	CWWP-54

	MANOEUVRE ELEMENT CWBU-20
Airborne Antiaircraft Company	

	Command x1 Commander	CWWP-103
	Transport x1 UAZ-469 Light Utility	CWWP-86
HÄ	x1 SA-7 'Grail' SAM Team (a)	CWWP-99
	Transport x1 UAZ-469 Light Utility	CWWP-86
LÄ	x3 ZU-23-2 Twin 23mm Antiaircraft Gun	CWWP-83
Þ.	Transport x3 GAZ-66 (Airborne) Medium Truck	CWWP-87
SA-14	nid-1980s, may replace SA-7 'Grail' SAM Te 'Gremlin' SAM Team	eam with: CWWP-100

Or from late-1980s with: SA-16 'Gimlet' SAM Team **CWWP-101**

MANOEUVRE ELEMENT CWBU-21 Airborne Engineer Company

-HQ	Command x1 Commander	CWWP-103
	x1 SA-7 'Grail' SAM Team (a)	CWWP-99
	x3 Sappers (1 flame 1 MAW)	CWWP-114
	x2 GAZ-66 (Airborne) Medium Truck	CWWP-87
(a) Mid-19	980s. may replace SA-7 'Grail' SAM Team	with:

(a) MID-1980s, may replace SA-7	Grail SAM Team with:
SA-14 'Gremlin' SAM Team	CWWP-100
Or in late 1980s with:	
SA-16 'Gimlet' SAM Team	CWWP-101

MANOEUVRE ELEMENT CWBU-22 Airborne Antitank Company (d)

- <mark>- H</mark>	Command x1 Commander	CWWP-103
	Transport x1 BRDM-1 Scout Car (a)	CWWP-54
$-\overset{\bullet}{\boxtimes}$	x3 9P110 (BRDM-1/AT-3) AT Vehicle (b)	CWWP-69
	x3 SD-44 85mm Antitank Gun (c)	CWWP-78
₽	Transport x3 GAZ-66 (Airborne) Medium Truck CWV	VP-87
• • •	eplace commander's transport with: -2 U Command Scout Car	CWWP-60
(b) May re	eplace 9P110 ATGM Vehicle with:	

9P122 (BRDM-2/AT-3 'Sagger') ATGM Vehicle	CWWP-70
Or in late 1980s with:	
9P148 (BRDM-3/AT-5 'Spandrel') ATGM Vehicle	CWWP-71

(c) The SD-44 85mm Antitank Gun was equipped with an auxiliary engine for manoeuvring the gun when its tractor was not available (particularly likely in a heli-borne operation, for example). In game terms, the SD-44 may not be manhandled in the usual sense. (notice that the regular D-44 85mm Antitank Gun has a movement value of 0/0). Before moving, an SD-44 must use an action to 'limber' and may then move at its movement rate (2/4), classed as a Wheeled Vehicle for bog-down/breaching purposes. It must then use an action to 'unlimber' before firing.

(d) This ME may be split up and allocated as individual unit attachments to other MEs in the BG.

MANOEUVRE ELEMENT CWBU-23 **Airborne Mortar Company**

HQ	Command x1 Commander	CWWP-103
	Transport x1 UAZ-469 Light Utility Vehicle	CWWP-86
-	Attachment/Recce x1 Forward Observer	CWWP-115
	Transport/Recce x1 UAZ-469 Light Utility Vehicle	CWWP-86
- <mark> -</mark> -	Fire Support x4 M-43 120mm Mortar	CWWP-113
Þ.	Transport x3 GAZ-66 Airborne Medium Truck	CWWP-87

Bulgarian Air Support

The Bulgarian Air Force had the following ground-attack aircraft:

x24 MiG-17 'Fresco'	CWWP-126
x18 MiG-23 'Flogger H'	CWWP-128

In 1988 the MiG-17 ground-attack fleet was replaced with:

/P-125
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The Bulgarian Air Force had these reconnaissance assets. which had a secondary ground-attack role:

x8 MiG-17 'Fresco'	CWWP-126
x6 MiG-21 'Fishbed'	CWWP-127

In 1988 the reconnaissance MiG-17s were replaced with:

The Bulgarian Air Force had the following fighter aircraft:

x24 MiG-21 'Fishbed'	CWWP-127
x8 MiG-23 'Flogger H'	CWWP-128

There were also some training aircraft with a secondary ground-attack role:

x6 L-39 'Albatross'	CWWP-137
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