### 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)
  - BATTLEGROUP CWBU-07
    - x1 Motor Rifle Regiment (Lorried)
  - BATTLEGROUP CWBU-09
    - x1 Reconnaissance 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

#### ARMY TROOPS (b)
- BATTLEGROUP CWBU-03
  - Up to x1 Independent Tank Brigade (c)
- FIRE SUPPORT ELEMENT CWBU-08
  - Up to x1 Army Artillery Regiment
  - Up to x1 Engineer Brigade (d)
- BATTLEGROUP CWBU-09
  - Up to x1 Reconnaissance Battalion
- BATTLEGROUP CWBU-15
  - Up to x1 Antitank Battalion

#### (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-117), x5 Mi-4 ‘Hound’ Transport Helicopter (CWWP-117), x8 Mi-8 ‘Hip’ 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)
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.

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 1x Air Assault Regiment (BG CWBU-08), 2x Army Artillery Regiments (FSE CWBU-08), 4x Anti-aircraft Batteries (ME CWBU-16), 10x SAM Battery (ME CWBU-15) and an Assault Helicopter Regiment consisting of 4x Mi-2 ‘Hoplite’ Observation Helicopter (CWWP-116), 8x Mi-4 ‘Hound’ Transport Helicopter (CWWP-117), 8x Mi-8 ‘Hip’ Assault Transport Helicopter (CWWP-118) and 12x 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.

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.

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

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.
BATTLEGROUP CWBU-03
Bulgarian Independent Tank Brigade 1980s

Command
x1 T-55 K 100mm Command MBT (ae) CWWP-03
Forward Air Controller/Recce
x1 Forward Observer CWWP-115
Transport/Recce
x1 BTR-60 TACP (f) CWWP-64

BATTLEGROUPS
BATTLEGROUP CWBU-10
x1 Motor Rifle Battalion (Tracked) (b)

MANOEUVRE ELEMENTS
MANOEUVRE ELEMENT CWBU-01
x3 Tank Battalion (Tank Brigade) (c)

MANOEUVRE ELEMENT CWBU-12
x1 Reconnaissance Company
MANOEUVRE ELEMENT CWBU-10
x1 Antiaircraft Company
MANOEUVRE ELEMENT CWBU-17
x1 Engineer Company (Tank Regiment)

FIRE SUPPORT ELEMENTS
FIRE SUPPORT ELEMENT CWBU-02
x1 Field Artillery Battalion (d)

(a) Mid-1980s: Replace Brigade Commander’s tank with:
T-72 MK 125mm Command MBT (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
Transport/Recce
x1 BTR-60 TACP (d) CWWP-64

BATTLEGROUPS
BATTLEGROUP CWBU-10
x1 Motor Rifle Battalion (Tracked) (b)

MANOEUVRE ELEMENTS
MANOEUVRE 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
got to the Independent Tank Brigades).

(d) May replace with:
MTLB Armoured Carrier CWWP-90
BATTLEGROUP CWBU-05
Bulgarian Motor Rifle Regiment (Tracked) (a)

** Command
- x1 Commander  CWWP-103

** Transport
- x1 BTR-50 PU Command Vehicle (b)  CWWP-61
- x1 Forward Observer  CWWP-115
- x1 BTR-60 TACP (c)  CWWP-64

BATTLEGROUPS

BATTLEGROUP CWBU-10
x3 Motor Rifle Battalion (Tracked)

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.

(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)

** Command
- x1 Commander  CWWP-103

** Transport
- x1 BTR-60 PU Command Vehicle (b)  CWWP-62
- x1 Forward Observer  CWWP-115
- x1 BTR-60 TACP  CWWP-64

B 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

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BATTLEGROUP CWBU-09

Reconnaissance Battalion

- Command/Recce
  - x1 BRDM-1 Scout Car (a)
  - Forward Air Controller/Recce
  - x1 Forward Observer
  - Transport/Recce
  - x1 BRDM-1 Scout Car (b)

MANOEUVRE ELEMENTS

- ME CWWP-17
  - x1 or x2 Heavy Reconnaissance Company

ATTACHMENTS

- Recce
  - x2 BRDM-2 RKh NBC Recce Vehicle (c)

(a) May replace command vehicle with:
  - BTR-40 Scout Car
  - BRDM-2 U Command Scout Car
  - MTLB Armoured Carrier

(b) May replace FAC’s transport with:
  - BTR-40 Scout Car
  - BTR-60 TACP

(c) Late 1980s: May replace BRDM-2 RKh with:
  - MTLB-RHR NBC Recce Vehicle

BATTLEGROUP CWBU-10

Motor Rifle Battalion (Tracked)

- Command
  - x1 Commander

- Transport
  - x1 BTR-50 PU Command Vehicle (ab)
  - Forward Air Controller/Recce
  - x1 Forward Observer
  - Transport/Recce
  - x1 BTR-60 TACP (c)

MANOEUVRE ELEMENTS

ATTACHMENTS

- Organic Fire Support
  - x4 M-43 82mm Mortar (de)

- Transport
  - x4 GAZ-66 Medium Truck (c)
  - x1 B-10 82mm Recoilless Rifle (fh)
  - x2 AT-3 ‘Sagger’ ATGM Team (gh)
  - Transport
  - x1 BTR-50 PK APC (bh)

- Up to x1 AT-7 ‘Saxhorn’ ATGM Team (hi)

(a) In Tank Brigades from early 1980s: Replace BTR-50 APC with:
  - BMP-1 73mm Infantry Combat Vehicle
  Alternative:
  - BMP-2 33mm Infantry Combat Vehicle

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

(c) May replace FAC’s transport and/or Mortar Platoon transport with:
  - MTLB Armoured Carrier (e)

(d) May replace x2 or x4 M-43 82mm Mortars with:
  - M-43 120mm Mortar (e)

(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

(g) Late 1980s: AT-3 ‘Sagger’ ATGMs may be replaced with:
  - AT-4 ‘Spigot’ ATGM Team

(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.
BATTLEGROUP CWBU-11
Motor Rifle Battalion (Wheeled)

Command
x1 Commander CWWP-103

Transport
x1 BTR-60 PU Command Vehicle (a) CWWP-62
x1 Forward Air Controller/Recce CWWP-115

Transport/Recce
x1 BTR-60 TACP (a) CWWP-64

MANOEUVER ELEMENTS
MANOEUVER 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:
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 Carrier CWWP-27
BTR-60 P Armoured Personnel Carrier CWWP-29
BTR-60 PA Armoured Personnel Carrier CWWP-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.

BATTLEGROUP CWBU-12
Motor Rifle Battalion (Lorried)

Command
x1 Commander CWWP-103

Transport
x1 UAZ-469 Light Utility Vehicle CWWP-86
x1 Forward Air Controller/Recce CWWP-115

Transport/Recce
x1 UAZ-469 Light Utility Vehicle CWWP-86

MANOEUVER ELEMENTS
MANOEUVER 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

(x1) May replace x2 or x4 M-43 82mm Mortars with:
M-43 120mm Mortar (e) CWWP-113

(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

Command
x1 Commander

Transport
x1 UAZ-469 Light Utility Vehicle
x1 Forward Observer

Transport/Recce
x1 UAZ-469 Light Utility Vehicle

MANOEUVRE ELEMENTS
MANOEUVRE ELEMENT CWBU-07
x3 Parachute Infantry

ATTACHMENTS
Organic Fire Support
x3 M-43 82mm Mortar
x3 AT-3 ‘Sagger’ ATGM Team

(a) Late 1980s: May replace AT-3 ‘Sagger’ Teams with:
    AT-4 ‘Spigot’ ATGM Team

BATTLEGROUP CWBU-14
Marine Infantry Battalion

Command
x1 Commander

Transport
x1 BTR-60 PU Command Vehicle
x1 Forward Observer

Transport/Recce
x1 BTR-60 TACP

MANOEUVRE ELEMENTS
MANOEUVRE ELEMENT CWBU-08
x3 Marine Infantry Company

ATTACHMENTS
Organic Fire Support
x4 M-43 82mm Mortar
x4 GAZ-66 Medium Truck
x1 B-10 82mm Recoilless Rifle
x2 AT-3 ‘Sagger’ ATGM Team

Transport
x1 BTR-60 PB APC

(a) May replace some or all transport with:
    MTLB Armoured Carrier
(b) May replace x2 or x4 M-43 82mm Mortars with:
    M-43 120mm Mortar
(c) B-10 82mm Recoilless Rifle may be replaced with:
    SPG-9 73mm Recoilless Rifle
(d) Late 1980s: AT-3 ‘Sagger’ ATGMs may be replaced with:
    AT-4 ‘Spigot’ ATGM Team

BATTLEGROUP CWBU-15
Antitank Battalion

Command
x1 Commander

Transport
x1 MTLB Armoured Carrier

MANOEUVRE ELEMENTS
MANOEUVRE ELEMENT CWBU-11
x3 Antitank Gun Company

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

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

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(c) Regimental and Battalion Command Tank ('K') variants do not have AAMGs.
**MANOEUVRE ELEMENT CWBU-08**

**Parachute Infantry Company**

**Command**
- **x1** Commander CWWP-103
- **x1** SA-7 ‘Grail’ SAM Team (a) CWWP-99
- **x9** Early Motor Rifles (3 RPG) CWWP-105
- **x1** SPG-9 73mm Recoilless Rifle CWWP-80

**Up to x1** AT-7 ‘Saxhorn’ ATGM Team (b) CWWP-98

(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.

**MANOEUVRE ELEMENT CWBU-08**

**Marine Infantry Company**

**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-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) 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:
- MTLB Tracked Carrier CWWP-90

**MANOEUVRE ELEMENT CWBU-09**

**Antitank Company**

**Command**
- **x1** BRDM-1 Scout Car (ac) CWWP-53
- **x3** 9P110 (BRDM-1) ATGM Vehicle (bcd) CWWP-69

(a) May replace command vehicle with:
- BRDM-2 U Command Scout Car CWWP-60

(b) May replace all 9P110 ATGM Vehicles with:
- 9P122 (BRDM-2/ AT-3 ‘Sagger’) ATGM Vehicle CWWP-70
Or in late 1980s in some units with:
- 9P148 (BRDM-3/ AT-5 ‘Spandrel’) ATGM Vehicle CWWP-71

(c) In some training units, replace this organisation with:
- **x1** Commander CWWP-103
- **x3** 8-11 107mm Recoilless Rifle CWWP-82
- **x4** GAZ-69 Light Utility Vehicle CWWP-86

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

**MANOEUVRE ELEMENT CWBU-10**

**Anti-aircraft Company (c)**

**Command**
- **x1** BTR-60 PU 12 AA Command Vehicle CWWP-63
- **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:
- ZSU-23-4 ‘Shilka’ AA Vehicle CWWP-17

(c) In some units (particularly the training divisions), replace this organisation with the following:
- **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 Anti-aircraft Companies may be split up as individual attachments to other units within the regiment.

**MANOEUVRE ELEMENT CWBU-11**

**Antitank Gun Company (b)**

**Command**
- **x1** Commander CWWP-103

**Transport**
- **x1** MTLB Armoured Carrier (c) CWWP-90
- **x2** D-44 85mm Antitank Gun (a) CWWP-77

**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

(d) Regimental Anti-Tank Companies may be split up as individual attachments to units within the regiment.
MANOEUVRE ELEMENT CWBU-12
Reconnaissance Company

Command/Recce

- x1 BRDM-2U Command Armoured Car (a) CWWP-60
- Recce
  - x1 PT-76 76mm Light Tank CWWP-01
  - Recce
  - x2 BRDM-2 Armoured Car (a) CWWP-55
  - Recce
  - x1 PK Light Machine Gun CWWP-109
- Transport/Recce
  - x1 Dnepr M-750M Motorcycle Combination CWWP-85

ATTACHMENTS

- Recce
  - x1 BRDM-2 RKh NBC Recce Vehicle CWWP-59

(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

MANOEUVRE ELEMENT CWBU-13
Scout Car Company

Command/Recce

- x1 BRDM-2U Command Armoured Car (a) CWWP-60
- Recce
  - x6 BRDM-2 Armoured Car (a) CWWP-55

(a) The armoured cars may alternatively be obsolete types such as:
  - BTR-40 Scout Car CWWP-26
  - BRDM-1 Scout Car CWWP-54

MANOEUVRE ELEMENT CWBU-14
Heavy Reconnaissance Company

Command/Recce

- x1 BRDM-2U Command Armoured Car (a) CWWP-60
- Recce
  - x2 PT-76 76mm Light Tank CWWP-01
  - 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
- Transport/Recce
  - x1 Dnepr M-750M Motorcycle Combination CWWP-85

(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
SAM Battery

Command

- 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 ‘Gane’ SAM Vehicle CWWP-20

MANOEUVRE ELEMENT CWBU-16
Antiaircraft Battery

Command

- x1 Commander CWWP-103
- Transport
  - x1 UAZ-469 Light Utility Vehicle CWWP-86
  - x3 S-60 57mm Antiaircraft Gun CWWP-84
  - x3 Ural 375 Heavy Truck CWWP-88

MANOEUVRE ELEMENT CWBU-17
Engineer Company (Tank Regt)

Command

- x1 Commander CWWP-103
- x1 SA-7 ‘Graal’ 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 ‘Graal’ SAM with:
  - SA-14 ‘Gremlin’ SAM Team CWWP-100
In late 1980s: May replace with:
  - SA-16 ‘Gimlet’ SAM Team CWWP-101
(b) From mid-1980s: Replace BTR-50 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, SAMs and IMR Combat Engineer Tractors.
MANOEUVRE ELEMENT CWBU-18
Engineer Company (Motor Rifle Regt)

Command
- x1 Commander
- x1 SA-7 ‘Grail’ SAM Team (ac)
- x3 Sappers (1 flame 1 RPG)
- x2 BTR-50 PK APC (b)
- x2 TMM Bridgelayer
- x1 MTU Bridgelayer (c)
- x1 BAT-M Bulldozer
- x1 BTM Trench-Digger

(a) Mid-1980s: May replace SA-7 ‘Grail’ SAM with:
SA-14 ‘Gremlin’ SAM Team
In late 1980s: May replace with:
SA-16 ‘Gimlet’ SAM Team

(b) Replace with wheeled APCs in Wheeled Motor Rifle
Regiments:
- BTR-152 Armoured Personnel Carrier
- BTR-60 P Armoured Personnel Carrier
- BTR-60 PA Armoured Personnel Carrier
From mid-1980s: Replace all APCs with:
MTLB Armoured Carrier
Or in training divisions, replace with:
GAZ-66 Medium Truck

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

MANOEUVRE ELEMENT CWBU-19
Divisional Sapper Company (a)

Command
- x1 Commander
- x1 SA-7 ‘Grail’ SAM Team (b)
- x9 Sappers (3 flame 3 RPG)
- x4 BTR-50 PK APC (c)
- x4 TMM Bridgelayer
- x1 MTU Bridgelayer
- x1 BAT-M Bulldozer
- x1 GMZ Mine-Layer
- x1 BRDM-2 Armoured Car (d)

(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
In late 1980s: May replace with:
SA-16 ‘Gimlet’ SAM Team

(c) Replace BTR-50 APCs with:
MTLB Armoured Carrier
Or in training divisions, replace with:
GAZ-66 Medium Truck

(d) The armoured cars may alternatively be obsolete types:
BTR-40 Scout Car
BRDM-1 Scout Car

MANOEUVRE ELEMENT CWBU-20
Airborne Anti-aircraft Company

Command
- x1 Commander
- Transport
  - x1 UAZ-469 Light Utility
- x1 SA-7 ‘Grail’ SAM Team (a)
- Transport
  - x1 UAZ-469 Light Utility
- x3 ZU-23-2 Twin 23mm Anti-aircraft Gun
- Transport
  - x3 GAZ-66 (Airborne) Medium Truck

(a) From mid-1980s, may replace SA-7 ‘Grail’ SAM Team with:
SA-14 ‘Gremlin’ SAM Team
Or from late-1980s with:
SA-16 ‘Gimlet’ SAM Team
MANOEUVRE ELEMENT CWBU-21
Airborne Engineer Company

Command
x1 Commander

Transport
x1 BRDM-1 Scout Car (a)

x3 9P110 (BRDM-1/AT-3) AT Vehicle (b)

x3 SD-44 85mm Antitank Gun (c)

Transport
x3 GAZ-66 (Airborne) Medium Truck CWWP-87

(a) Mid-1980s, may replace SA-7 ‘Grail’ SAM Team with:
SA-14 ‘Gremlin’ SAM Team
Or in late 1980s with:
SA-16 ‘Gimlet’ SAM Team

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:

x20 Su-25 ‘Frogfoot’ CWWP-125

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:

x9 Su-22 ‘Fitter D’ CWWP-124

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

MANOEUVRE ELEMENT CWBU-22
Airborne Antitank Company (d)

Command
x1 Commander

Transport
x1 BRDM-1 Scout Car (a)

x2 M-43 120mm Mortar

x3 GAZ-66 Airborne Medium Truck CWWP-87

(a) May replace commander’s transport with:
BRDM-2 U Command Scout Car CWWP-60

(b) May replace 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

Command
x1 Commander

Transport
x1 UAZ-469 Light Utility Vehicle CWWP-86

x1 Forward Observer CWWP-115

x1 UAZ-469 Light Utility Vehicle CWWP-86

Fire Support
x4 M-43 120mm Mortar CWWP-113

Transport
x3 GAZ-66 Airborne Medium Truck CWWP-87
### FIRE SUPPORT ELEMENT CWBU-01
Divisional Artillery Regiment

- **x3 Field Artillery Battalion** (ab)

### FIRE SUPPORT ELEMENT CWBU-02
x3 Field Artillery Battalion (ab)

- **x1 Commander** CWWP-103
- **x1 GAZ-66 Command Vehicle** (a) CWWP-87
- **x1 Forward Observer** CWWP-115
- **x1 UAZ-469 Light Utility Vehicle** (a) CWWP-86
- **x3 M-31 122mm Gun** (bcd) no card
- **x3 Ural 375 Heavy Truck** (cd) CWWP-88

(a) By the early 1980s, half of Bulgaria’s artillery pieces were still ancient M-31 122mm Guns. There were sufficient (marginally less-ancient) M-38 122mm Howitzers to equip one Field Artillery Battalion in each of the five ‘regular’ Motor Rifle Divisions. The Tank Brigades had already upgraded to modern D-30 122mm Howitzers and the Motor Rifle Divisions would be steadily upgraded throughout the 1980s.

(b) The three training divisions seem to have had only x3 Field Artillery Battalions (probably M-31 throughout the 1980s) and no Heavy artillery or MRLs.

### FIRE SUPPORT ELEMENT CWBU-03
Field Artillery Battery

- **x3 Field Artillery Battery**
  - Command
    - **x1 Commander** CWWP-103
  - Transport
    - **x1 GAZ-66 Command Vehicle** (a) CWWP-87
  - Attachment/Recce
    - **x1 Forward Observer** CWWP-115
  - Transport/Recce
    - **x1 UAZ-469 Light Utility Vehicle** (a) CWWP-86
  - Fire Support
    - **x3 M-31 122mm Gun** (bcd) no card
  - Transport
    - **x3 Ural 375 Heavy Truck** (cd) CWWP-88

(a) May replace softskin command/OP transport with:

- 1V18 Artillery Command/OP Vehicle CWWP-70

In Tank Brigades, replace with:

- 1V13 Artillery Command/OP Vehicle CWWP-69

(b) Some Field Artillery Battalions in regular Motor Rifle Divisions may replace their M-31 122mm Guns with:

- M-38 122mm Howitzer no card

From mid-1980s in some regular Motor Rifle Divisions: Replace guns/howitzers with:

- D-30 122mm Howitzer CWWP-76

(c) In Tank Brigades: Replace all artillery pieces with:

- D-30 122mm Howitzer (d) CWWP-76

Also replace Ural 375 Heavy Trucks with:

- MTLB Armoured Carrier (d) CWWP-90

(d) In Tank Brigades from mid-1980s: Replace the D-30 122mm Howitzers with:

- 2S1 ‘Gvozdika’ Self-Propelled 122mm Howitzer CWWP-75

### FIRE SUPPORT ELEMENT CWBU-04
Heavy Howitzer Battalion

- **x1 Heavy Howitzer Battalion** (b)

### FIRE SUPPORT ELEMENT CWBU-05
x3 Heavy Howitzer Battery

- **General Fire Support**
  - **x3 D-20 152mm Howitzer** no card

### FIRE SUPPORT ELEMENT CWBU-06
Multiple Rocket Launcher Battalion

- **x4 BM-21 ‘Grad’ 40x122mm MRL** CWWP-131

### FIRE SUPPORT ELEMENT CWBU-07
Multiple Rocket Launcher Battery

- **General Fire Support**
  - **x4 BM-21 ‘Grad’ 40x122mm MRL** CWWP-131

### FIRE SUPPORT ELEMENT CWBU-08
Army Artillery Regiment

- **x3 Field Artillery Battalion** (a)
- **x1 Heavy Howitzer Battalion** (a)
- **x1 Long-Range Artillery Battalion**

### FIRE SUPPORT ELEMENT CWBU-09
Long-Range Artillery Battalion

- **x3 Long-Range Artillery Battery**
  - **General Fire Support**
    - **x3 BM-21 ‘Grad’ 40x122mm MRL** CWWP-131

### FIRE SUPPORT ELEMENT CWBU-10
Long-Range Artillery Battery

- **General Fire Support**
  - **x3 M-36 130mm Gun** no card

### FIRE SUPPORT ELEMENT CWBU-11
Heavy MRL Battalion

- **x4 RM-51 32x130mm MRL** no card

### FIRE SUPPORT ELEMENT CWBU-12
Heavy MRL Battery

- **General Fire Support**
  - **x4 RM-51 32x130mm MRL** no card