

Graphical TO&Es

Germany WW2

D. Schoenberger

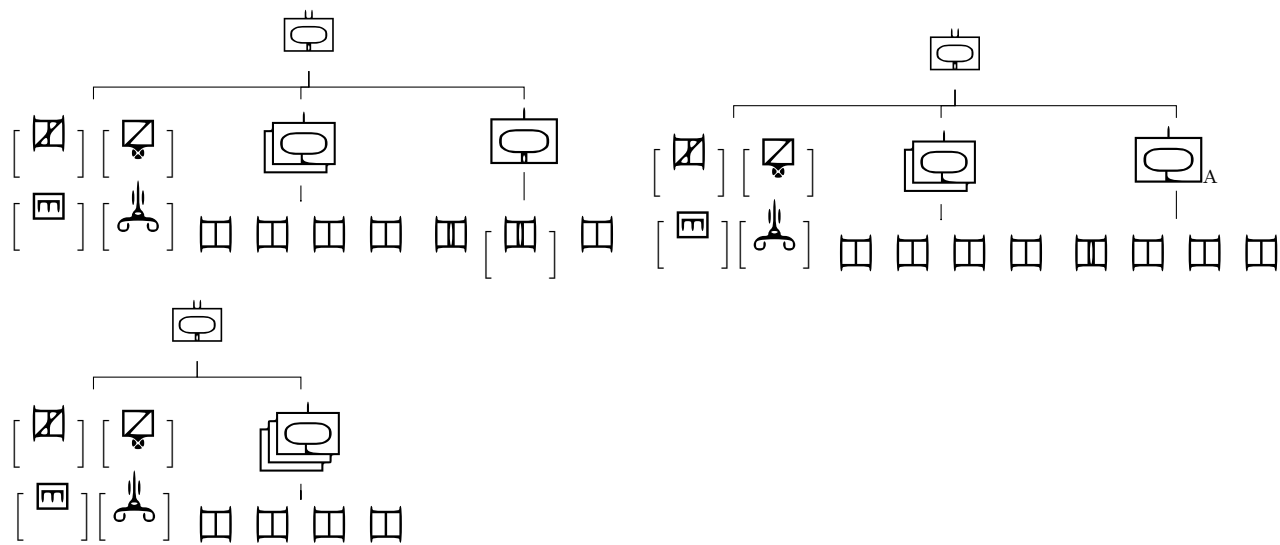
August 28, 2014 v3.0.1

Contents

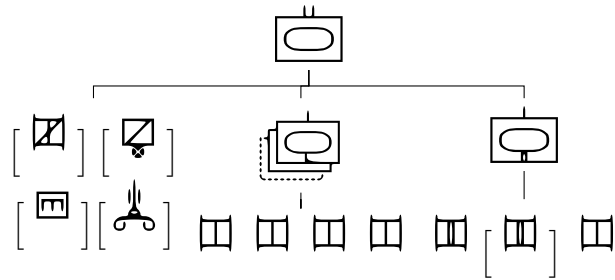
1	Combat Formations	3
1.1	Medium Panzer Battalion 1939-1940	3
1.2	Medium Panzer Battalion 1941-1942	3
1.3	Medium Panzer Battalion 1943	3
1.4	Medium Panzer Battalion 1944	4
1.5	Medium Panzer Battalion 1945	4
1.6	Heavy [Tiger] Panzer Battalion Aug 1942-1943	4
1.7	Heavy [Tiger] Panzer Battalion Aug 1944-1945	4
1.8	Infantry / Grenadier Battalion 1939-1940	4
1.9	Infantry / Grenadier Battalion 1941-1942	5
1.10	Infantry / Grenadier Battalion 1943-Jun 1944	5
1.11	Infantry / Grenadier Battalion Jul 1944-1945	5
1.12	Motorized Panzergrenadier Battalion 1939	5
1.13	Motorized Panzergrenadier Battalion 1940-1941	5
1.14	Motorized Panzergrenadier Battalion 1942-Sep 1944	6
1.15	Motorized Panzergrenadier Battalion Oct 1944-1945	6
1.16	Armored Panzergrenadier Battalion 1942	6
1.17	Armored Panzergrenadier Battalion 1943-Sep 1943	6
1.18	Armored Panzergrenadier Battalion Oct 1943-Jun 1944	6
1.19	Armored Panzergrenadier Battalion Jul 1944-May 1945	6
1.20	Armored Panzergrenadier Battalion Jun 1945+	7
1.21	Volksgrenadier Battalion 1944-1945	7
1.22	Volksgrenadier Battalion [Bicycle] 1944-1945	7
1.23	Motorcycle Rifle [Kradschutzen] Battalion 1939-1940	7
1.24	Motorcycle Rifle [Kradschutzen] Battalion 1940	7
1.25	Motorcycle Rifle [Kradschutzen] Battalion 1941-1945	8
2	Attachments	9
2.1	Light Recon Company [Panzer or Panzergrenadier Division]	9
2.2	Medium Recon Company [Panzer or Panzergrenadier Division]	9
2.3	Recon Platoon or Company [Infantry or Volksgrenadier Division]	9
2.4	Heavy Infantry Gun Section [Infantry / Grenadier]	9
2.5	Heavy Infantry Gun Section [Motorized Panzergrenadier]	9
2.6	Heavy Infantry Gun Section [Armored Panzergrenadier]	9
2.7	Flak Kampftruppe	9
2.8	Flak Battery	9
2.9	Flak Platoon	9
2.10	Panzer Flak Platoon	9
2.11	Engineer Company	9
2.12	Panzerjäger [Tank Hunter] Company	9
2.13	StuG [Assault Gun] Company	10
2.14	Sturm Panzer Company	10
2.15	Armored Car Company	10
2.16	Armored Car HQ Company	10
2.17	Armored Engineer Company	10
3	Artillery Support Groups	11
4	Equipment Notes	12

1 Combat Formations

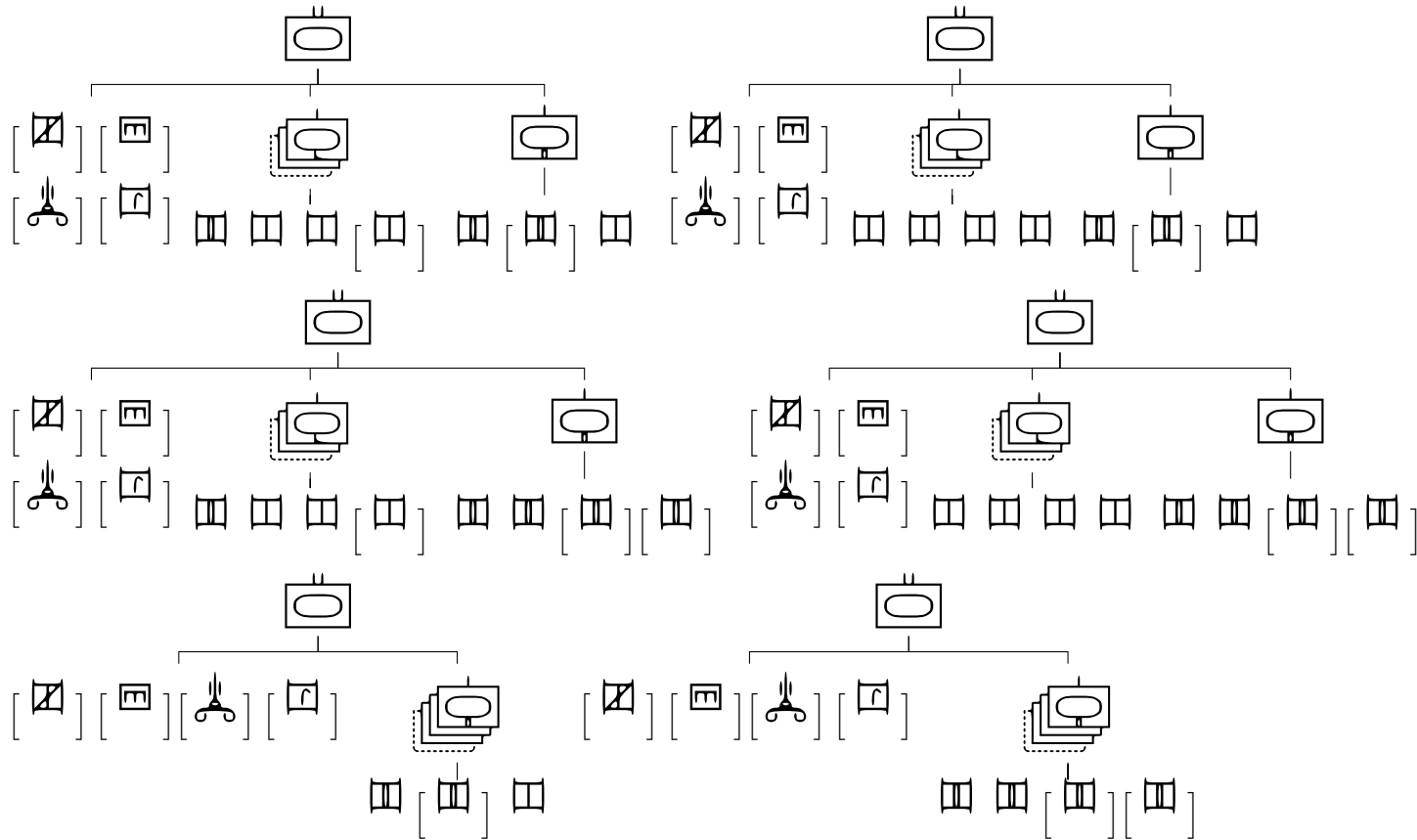
1.1 Medium Panzer Battalion 1939-1940



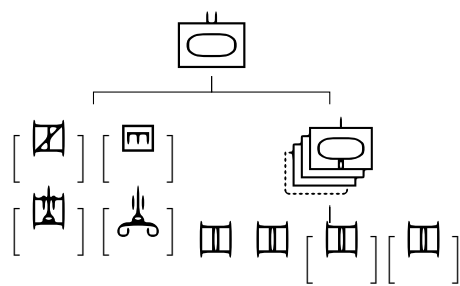
1.2 Medium Panzer Battalion 1941-1942



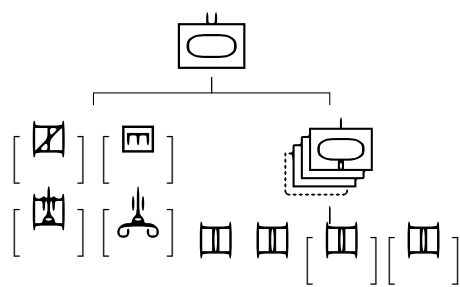
1.3 Medium Panzer Battalion 1943



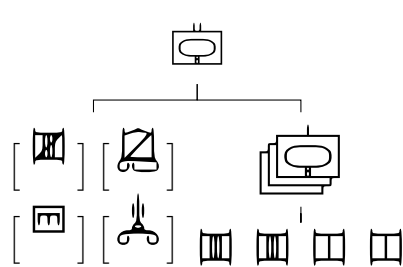
1.4 Medium Panzer Battalion 1944



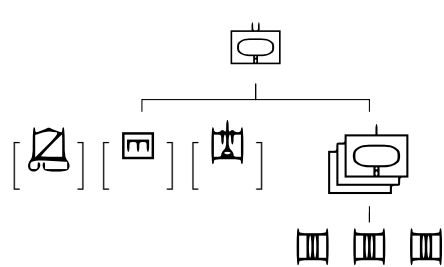
1.5 Medium Panzer Battalion 1945



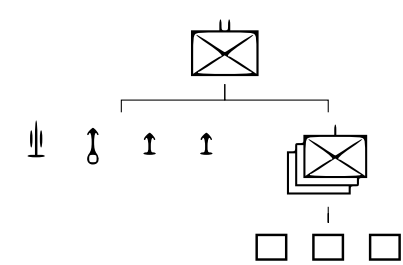
1.6 Heavy [Tiger] Panzer Battalion Aug 1942-1943



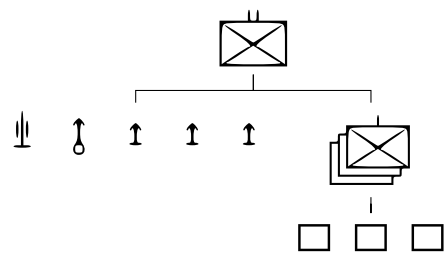
1.7 Heavy [Tiger] Panzer Battalion Aug 1944-1945



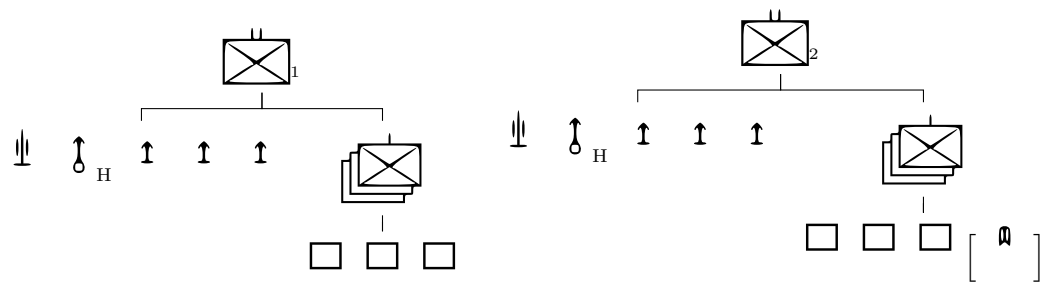
1.8 Infantry / Grenadier Battalion 1939-1940



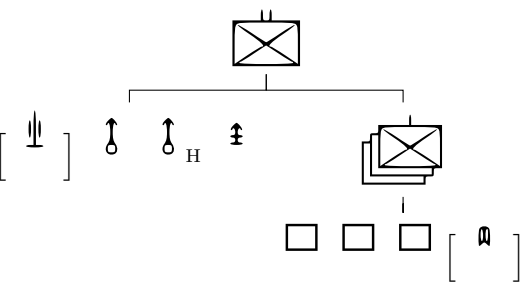
1.9 Infantry / Grenadier Battalion 1941-1942



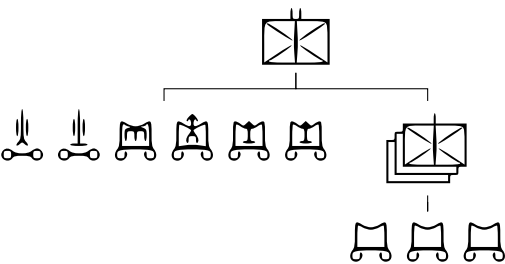
1.10 Infantry / Grenadier Battalion 1943-Jun 1944



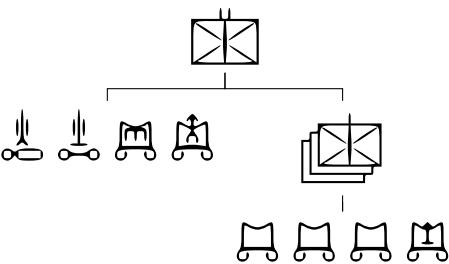
1.11 Infantry / Grenadier Battalion Jul 1944-1945



1.12 Motorized Panzergrenadier Battalion 1939

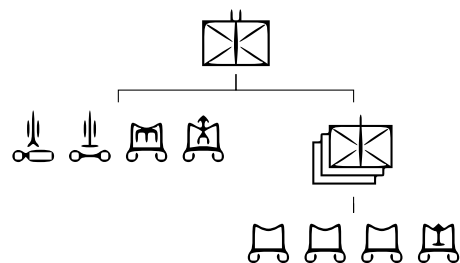


1.13 Motorized Panzergrenadier Battalion 1940-1941

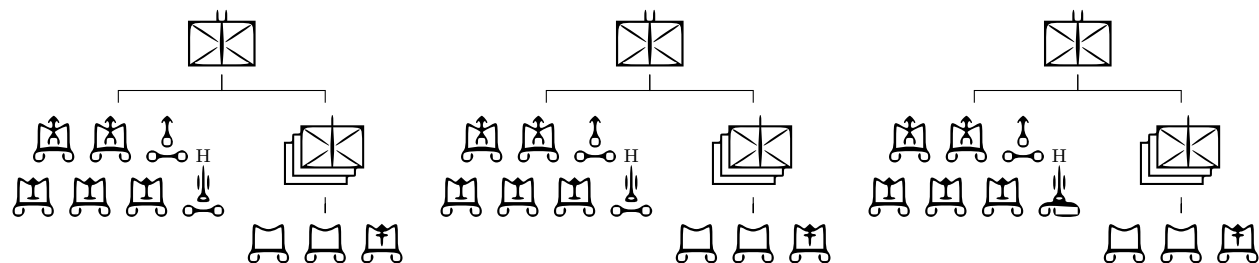


¹,₄₃
²,₄₄

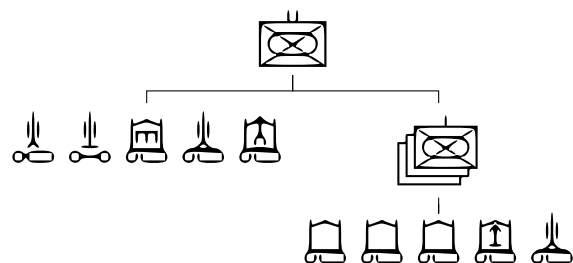
1.14 Motorized Panzergrenadier Battalion 1942-Sep 1944



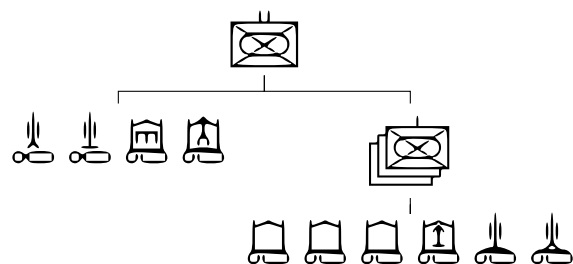
1.15 Motorized Panzergrenadier Battalion Oct 1944-1945



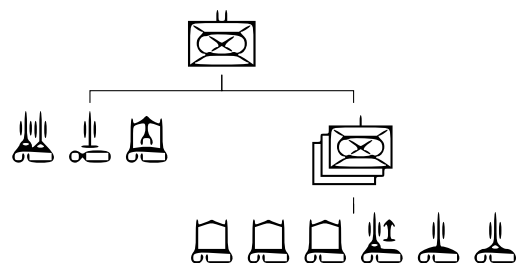
1.16 Armored Panzergrenadier Battalion 1942



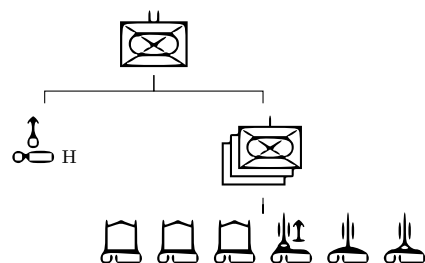
1.17 Armored Panzergrenadier Battalion 1943-Sep 1943



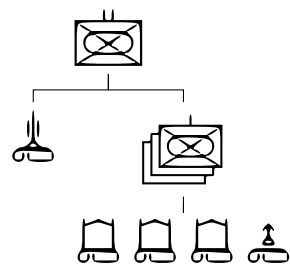
1.18 Armored Panzergrenadier Battalion Oct 1943-Jun 1944



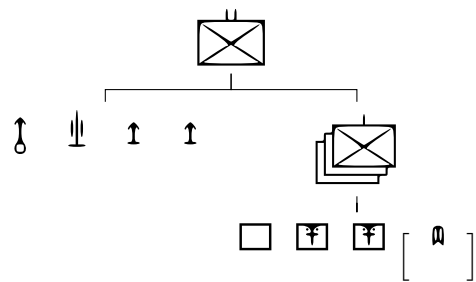
1.19 Armored Panzergrenadier Battalion Jul 1944-May 1945



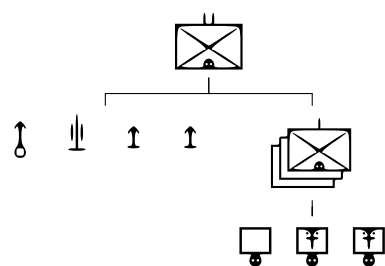
1.20 Armored Panzergrenadier Battalion Jun 1945+



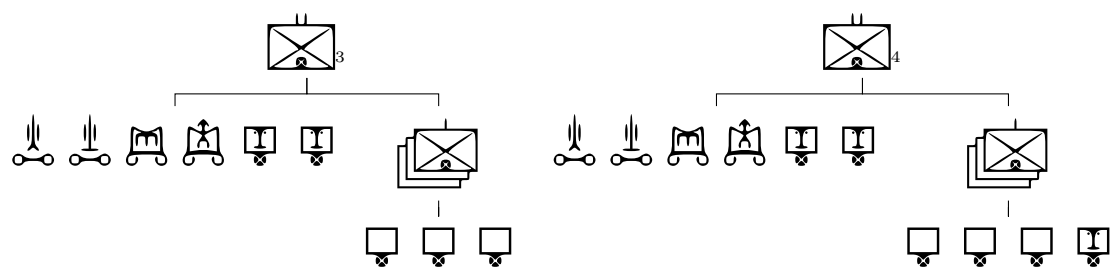
1.21 Volksgrenadier Battalion 1944-1945



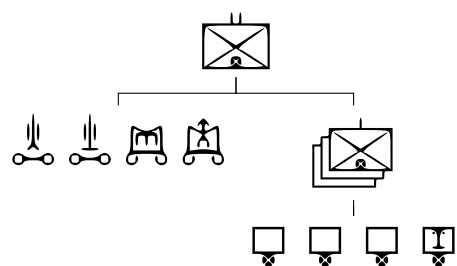
1.22 Volksgrenadier Battalion [Bicycle] 1944-1945



1.23 Motorcycle Rifle [Kradschutzen] Battalion 1939-1940

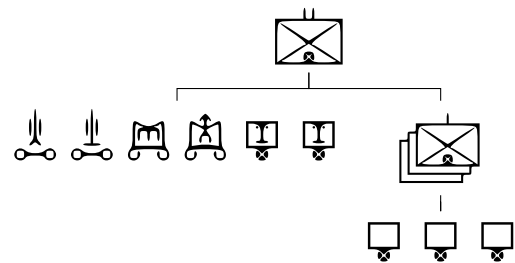


1.24 Motorcycle Rifle [Kradschutzen] Battalion 1940



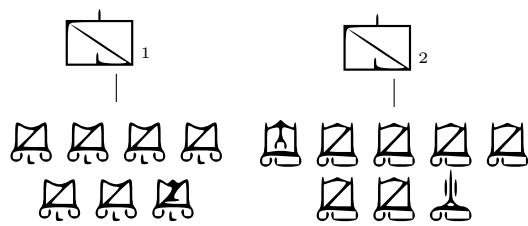
³1939
⁴1940

1.25 Motorcycle Rifle [Kradschutzen] Battalion 1941-1945



2 Attachments

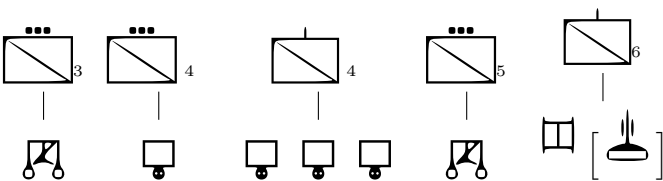
2.1 Light Recon Company [Panzer or Panzergrenadier Division]



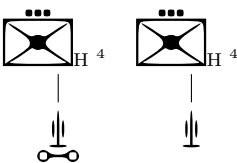
2.2 Medium Recon Company [Panzer or Panzergrenadier Division]



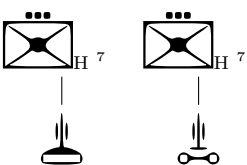
2.3 Recon Platoon or Company [Infantry or Volksgrenadier Division]



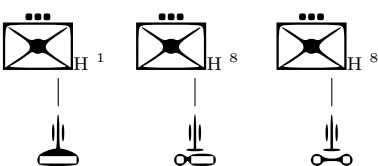
2.4 Heavy Infantry Gun Section [Infantry / Grenadier]



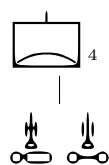
2.5 Heavy Infantry Gun Section [Motorized Panzergrenadier]



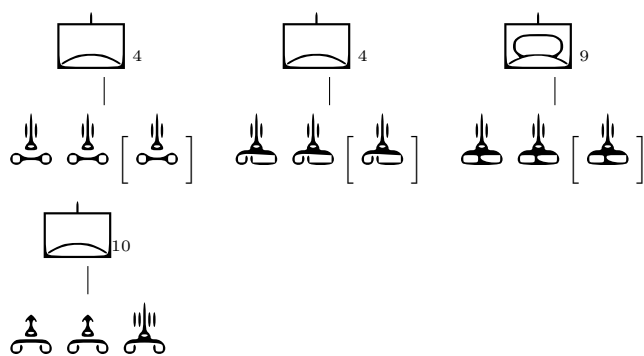
2.6 Heavy Infantry Gun Section [Armored Panzergrenadier]



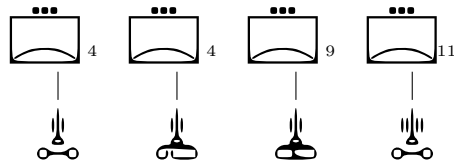
2.7 Flak Kampftruppe



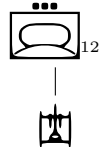
2.8 Flak Battery



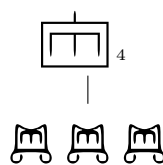
2.9 Flak Platoon



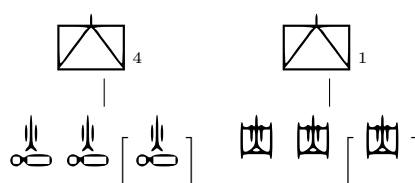
2.10 Panzer Flak Platoon



2.11 Engineer Company

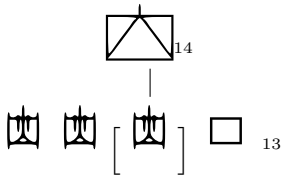


2.12 Panzerjager [Tank Hunter] Company

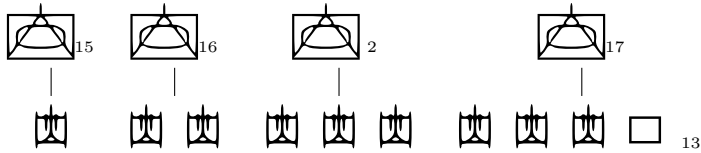


1'42-'45
2'43-'45
3'39
4'39-'45
5Infantry or Volksgrenadier Division
6Sep'43-'45 Italy and the Balkans
7'40-'45
8'42-'43

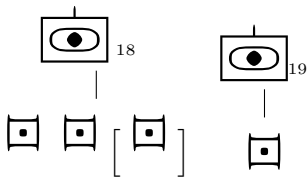
9'41-'43
10'41-'45
11'41-'45
12'44-'45



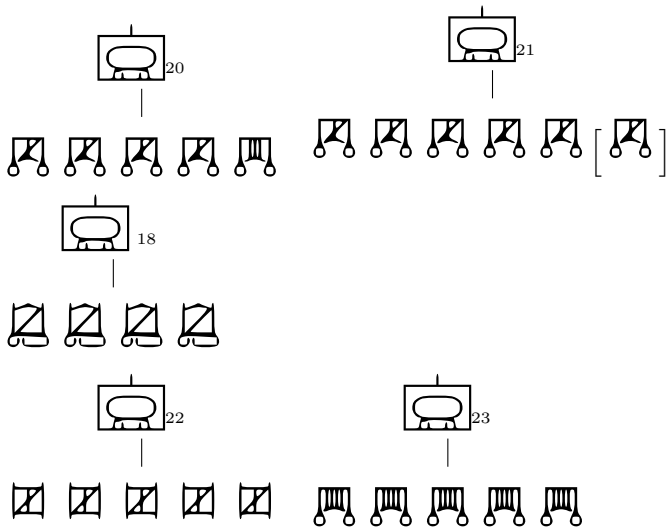
2.13 StuG [Assault Gun] Company



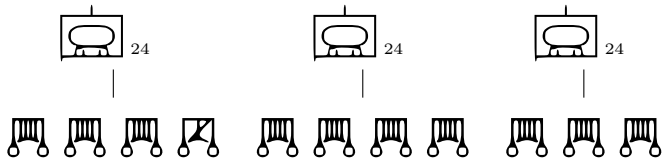
2.14 Sturm Panzer Company



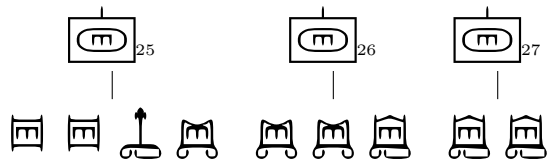
2.15 Armored Car Company



2.16 Armored Car HQ Company



2.17 Armored Engineer Company



¹³escort infantry, rides on vehicle

¹⁴Jun'44-'45

¹⁵'40

¹⁶'41-'42

¹⁷Jun'44-'45

¹⁸'43-'45

¹⁹'45

²⁰'39-'45

²¹'41

²²Oct'43-'45

²³Oct'44-'45

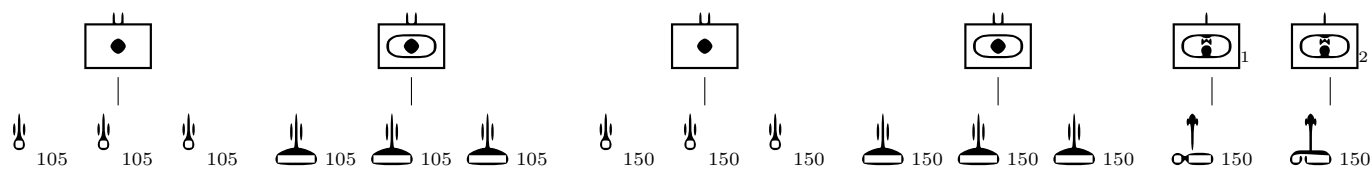
²⁴Jul'44-'45

²⁵'41-Mar'42

²⁶Apr'42-Mar'43

²⁷Apr'43-'45

3 Artillery Support Groups



¹:41-'45

²:42-'45

4 Equipment Notes



heavy tank

Aug 1942 - 1943 Pz. VIE Tiger I

1944 - 1945 Pz. VIE Tiger I or Pz. VIB Tiger II



heavy recon tank

'42-'43 Pz. III series or Pz. IV series



medium tank

'44 Pz. III series, Pz. IV series, Pz. V series, StuG III series, or Pz. IV/70(V) and Pz. IV/70(A)

'45 Pz. IV series, Pz. V series, StuG III series, or Pz. IV/70(V) and Pz. IV/70(A)



medium tank(Medium Panzer Company 1943)

Option A 1-2 Pz. IV series

Option B 2-4 Pz. III series, Pz. IV series, Pz. V series, or StuG III series



light tank(Light Panzer Company 1939 - 1940) [choose one type]

Option A 1 Pz. III series; 2 Pz. II series; 1 Pz. I series

Option B 3 Pz. 35(t) or 3 Pz. 38(t) series; 1 Pz. II series

Option C '39-Feb'40 2 Pz. IID-E; 2 Pz. II series ¹



light tank(Light Panzer Company(variant) 1939 - 1940) [choose one type]

Option A 2-3 Pz. III series; 1 Pz. II series

Option B 3 Pz. 35(t) or 3 Pz. 38(t) series; 1 Pz. II series



light tank(Light Panzer Company(variant) 1939 - 1940) [choose one type]

Option A 1 Pz. III series; 2 Pz. II series; 1 Pz. I series

Option B 3 Pz. 35(t) or 3 Pz. 38(t) series; 1 Pz. II series



light tank(Light Panzer Company 1941 - 1943) [choose one type]

Option A 2-3 Pz. III series; 1 Pz. II series

Option B 3 Pz. 35(t) or 3 Pz. 38(t) series; 1 Pz. II series



light tank(Light Panzer Company A 1939 - 1940)

1 Pz. IV series; 1 Pz. III series; 1 Pz. II series; 1 Pz. I series



light tank(Medium Panzer Company 1939 - 1942)

Pz. II series



light tank(Heavy Panzer Company Aug 1942 - 1943)

Pz. III series



light tank(Italy and the Balkans)

L6/40



light recon tank

'39-'40 Pz. I series or Pz. II series

'41-'43 Pz. II series

'44-'45 Pz. IV series or Pz. V series



light recon tank(Armored Car Company)

Oct'43-'45 Pz. IIL Luchs

Apr'44-44 SdKfz 140/1 AufKPz. 38(t)



tank destroyer(Panzerjager [Tank Hunter] Company) [in rough order of decreasing prevalence where known] ²

'39-Feb'40 8.8cm auf Zgkw 12t

Mar'40-'40 Pzjg. I, or 8.8cm auf Zgkw 12t

'41-May'41 Pzjg. I

Jun'41-Mar'42 Pzjg. I, or 4.7cm PaK(t) auf Pz. 35R(f)

Apr'42-Jun'42 PaK 36(r) auf Pz. II, Marder II, Pzjg. I, 4.7cm PaK(t) auf Pz. 35R(f)

Jul'42-Nov'42 Marder III w/76mm, Marder II, PaK 36(r) auf Pz.II, Marder I

Dec'42-Feb'43 Marder III w/76mm, Marder II, PaK 36(r) auf Pz.II, Marder I, or Marder III w/75mm

Mar'43-May'43 Marder III w/75mm, Marder II, Marder III w/76mm, PaK 36(r) auf Pz.II, Marder II, Marder I, Ferdinand / Elefant

Jun'43-Sep'43 Marder III w/75mm, Marder III w/76mm, Marder II, StuG IIIG, StuG IV, Nashorn / Hornisse, Ferdinand / Elefant

¹only 1 battalion in Poland

²A Jagdpanther may be substituted for one Pz.V Panther stand in Panther companies.

Oct'43-Feb'44 Marder III w/75mm,
 Marder III w/76mm, Marder II,
 StuG IIIG, StuG IV,
 Nashorn / Hornisse, Ferdinand / Elefant

Mar'44-May'44 Marder III w/75mm,
 Marder III w/76mm, Marder II,
 StuG IIIG, StuG IV, JgdPz. IV,
 Nashorn / Hornisse, Ferdinand / Elefant

Jun'44-Jun'44 Marder III w/75mm,
 Marder III w/76mm, Marder II,
 StuG IIIG, StuG IV, JgdPz. IV,
 Nashorn / Hornisse, Jagdpanther,
 Ferdinand / Elefant

Jul'44-Nov'44 Marder III w/75mm,
 Marder III w/76mm, Marder II,
 StuG IIIG, StuG IV,
 sIG 33/2(Sf) Jpz. 38(t) Hetzer, JgdPz. IV,
 Nashorn / Hornisse, Jagdpanther,
 Ferdinand / Elefant

Dec'44-'45 Marder III w/75mm, Marder III w/76mm,
 Marder II, StuG IIIG, StuG IV,
 sIG 33/2(Sf) Jpz. 38(t) Hetzer, JgdPz. IV,
 Pz. IV/70(V), Nashorn / Hornisse,
 Jagdpanther, Jagdtiger

Italy and Balkans Dec'44-'45 Semovente 75/18,
 Semovente 75/34, Semovente M43 75/34,
 Semovente 105/25, Semovente M43 75/46 or
 Semovente M43 105/25

Jun'44-45 StuG III series or StuG IV or
 sIG 33/2(Sf) Jpz. 38(t) Hetzer



tank destroyer([Assault Gun] Company)

'40 StuG III series, StuIG 33B ³, or
 Semovente 105/25 ⁴

'41-'42 StuG III series, StuIG 33B ³, or
 Semovente 105/25 ⁴,

'43-'45 StuG III series, StuIG 33B ³, or
 Semovente 105/25 ⁴ or StuH42

Jun'44-'45 StuG III series, StuIG 33B ³, or
 Semovente 105/25 ⁴ or StuH42

'45 StuG III series, StuIG 33B ³, or
 Semovente 105/25 ⁴, StuH42 or
 Pz. IV/70(A)



anti-air tank

'44-'45 FlakPz. 38(t) or Möbelwagen or
 Wirbelwind (FlakPz.IV) or Ostwind⁵



flame tank

Jul'43-Dec'43 Pz. III (Fl)



engineer tank

'41-Mar'42 Pz.IB Demolition Layer



assault tank

'43-'45 Brummbär

'45 Sturmtiger



very heavy armored car(Armored Car Company)

Oct'44-'45 SdKfz 234/2



very heavy armored car(Armored Car HQ Company [Panzer or Panzergrenadier Division])

Jul'44-'45 3 SdKfz 234/1 or 3 SdKfz 234/2

'45 3 SdKfz 234/1 or 3 SdKfz 234/2; 1
 SdKfz 234/4



heavy armored car(Armored Car Company)

'39 SdKfz 231/232 6-rad

'40 SdKfz 231/232 8-rad or SdKfz 231/232 6-rad

'41 SdKfz 231/232 8-rad

'42-'45 SdKfz 231/232 8-rad



light armored car

SdKfz 221



light armored car(Recon Platoon or Company [Infantry or Volksgrenadier Division])

Kfz 13



light armored car(Italy and the Balkans)

Sep'43-'45 AB41

Oct'43-'45 AB41/ AB43

Sep'43-'45 AB Lince



light armored car(Armored Car Company)

'39 2 SdKfz 221; 1 SdKfz 222; 1 SdKfz 223

'40 2 SdKfz 221; 1 SdKfz 222; 1 SdKfz 223

'41 2 SdKfz 221; 1 SdKfz 222; 1 SdKfz 223

'41 5-6 AMD 35 Panhard 178

'42-'45 3 SdKfz 222; 1 SdKfz 223



light armored car(Armored Car HQ Company [Panzer or Panzergrenadier Division])

³rarely

⁴Italy only

⁵very rare

Jul'44-'45  SdKfz 223

 gun (self-propelled)

'40-'41  sIG 33(Sf) Pz. IB

'42-Feb'43  sIG 33(Sf) Pz. IB, or  sIG 33(Sf) Pz. II

Mar'43-'43  Grille,  sIG 33(Sf) Pz. IB, or  sIG 33(Sf) Pz. II

'44  Grille

'45  Grille, or  sIG 33/2(Sf) Jpz. 38(t) Hetzer

 gun (self-propelled)(Italy and the Balkans)

 Semovente 47/32

 anti-aircraft gun (SP light)

'41-'43  FlakPz. I

 infantry on SdKfz 251/1

 recon (half-track)

 recon SdKfz 250/1 or  recon infantry + SdKfz 250/1

 recon (half-track)(Armored Car Company)

'43-'45 1  SdKfz 250/1; 3  SdKfz 250/9

 recon (half-track) Light Recon Company [Panzer or Panzergrenadier Division]

'43-'45  SdKfz 250/10 or  SdKfz 250/8

 mortar (SP, half-track)

 SdKfz 251/2

 mortar (SP, half-track) Light Recon Company [Panzer or Panzergrenadier Division]

43-'45  SdKfz 250/7

 H  12cm sGrW 42 120mm Mtr + SdKfz 251/1

 MG on SdKfz 251/1

 engineer (half-track)

 Pioneer + SdKfz 251/1

 engineer (half-track)(Armored Engineer Company)

Apr'42-Mar'43  Pioneer + SdKfz 251/5 Pioneer Pzw.

Apr'43-'45  Pioneer + SdKfz 251/7 Pioneer Pzw.

 anti-tank gun (half-track drawn)

 SdKfz 251/10

 anti-tank gun (half-track drawn)

'42  2.8cm sPzB 41 ATG + SdKfz 250/1

'45  SdKfz 251/22

 anti-tank gun (half-track drawn)(Medium Recon Company [Panzer or Panzergrenadier Division])

 SdKfz 251/9 or  SdKfz 251/22⁶

 anti-air MG (half-track)

 SdKfz 251/21

 anti-air MG (half-track)(Medium Recon Company [Panzer or Panzergrenadier Division])

 MG on SdKfz 251/17 or  MG on SdKfz 251/1

 SdKfz 251/17,  SdKfz 10/4 or  SdKfz 6/2 or  SdKfz 7/1 or  SdKfz 7/2

 8.8cm Flak 18 + SdKfz 7,  8.8cm Flak 36 + SdKfz 7,  8.8cm Flak 37 + SdKfz 7

 anti-tank gun (half-track drawn)

'39-'41  PaK 35/36 37mm ATG + gun tractor;  47mm PaK 141(f) ATG + gun tractor, or  47mm PaK 36(t) ATG + gun tractor ⁷ ⁸ ⁹ ¹⁰

'42-'45  PaK 38 50mm ATG + gun tractor,  PaK 35/36 37mm ATG + gun tractor;  47mm PaK 141(f) ATG + gun tractor, or  47mm PaK 36(t) ATG + gun tractor ⁷ ⁸ ⁹ ¹⁰

 anti-tank gun (half-track drawn)(Armored Panzergrenadier Battalion)

'42  PaK 38 50mm ATG + gun tractor;  47mm PaK 141(f) ATG + gun tractor, or  47mm PaK 36(t) ATG + gun tractor ⁷ ⁸ ⁹ ¹⁰

'43-Jun'44  PaK 40 75mm ATG + gun tractor,  PaK 38 50mm ATG + gun tractor,  PaK 36(r) 76mm ATG + gun tractor, or  PaK 39(r) 76mm ATG + gun tractor ⁷ ⁸ ⁹ ¹⁰

⁶1945 only

⁷For 37mm AT guns: Light Truck, or SdKfz 10 tractor. In 1941-42 also used captured French Chenillette (Renault UE), or captured British Cavalry Carrier or Bren Carrier

⁸For 50mm AT guns: Light Truck, SdKfz 10 tractor, or SdKfz 251/4 tractor. In 1941-42 also used captured French Chenillette (Renault UE), or captured British Cavalry Carrier or Bren Carrier

⁹For 75mm AT guns: Light Truck, RSO, SdKfz 3 Maultier, SdKfz 11 tractor, or SdKfz 251/4 tractor

¹⁰For 88mm and up AT Guns: SdKfz 7 tractor, or sWS

 anti-tank gun (half-track drawn)(Panzerjäger [Tank Hunter] Company) [in rough order of decreasing prevalence where known]

'39-Jun'40  PaK 35/36 37mm ATG + gun tractor,
 47mm PaK 141(f) ATG + gun tractor, or
 47mm PaK 36(t) ATG + gun tractor ^{7 8 9 10}

'41  PaK 35/36 37mm ATG + gun tractor,
 PaK 38 50mm ATG + gun tractor,
 47mm PaK 141(f) ATG + gun tractor,
 47mm PaK 36(t) ATG + gun tractor, or
 7.5cm PaK 41 ATG + gun tractor ^{11 7 8 9 10}

'42-May'42  PaK 38 50mm ATG + gun tractor,
 PaK 40 75mm ATG + gun tractor,
 47mm PaK 141(f) ATG + gun tractor,
 47mm PaK 36(t) ATG + gun tractor or
 7.5cm PaK 41 ATG + gun tractor ^{11 7 8 9 10}

Jun'42-'42  PaK 38 50mm ATG + gun tractor,
 PaK 97/38 75mm ATG + gun tractor,
 PaK 40 75mm ATG + gun tractor,
 47mm PaK 141(f) ATG + gun tractor,
 47mm PaK 36(t) ATG + gun tractor or
 7.5cm PaK 41 ATG + gun tractor ^{11 7 8 9 10}

'43-'45  PaK 40 75mm ATG + gun tractor,
 PaK 38 50mm ATG + gun tractor,
 PaK 43 88mm ATG + gun tractor,
 PaK 43/41 88mm ATG + gun tractor,
 PaK 97/38 75mm ATG + gun tractor, or
 47mm PaK 141(f) ATG + gun tractor ^{7 8 9 10}

  SdKfz 251/9

 infantry gun (half-track drawn)

 7.5cm leIG 18 + SdKfz 251/4 tractor

 infantry gun (half-track drawn)(Armored Panzergrenadiers)

'42-Feb'43  15cm sIG 33 + SdKfz 251/4 tractor

  28cm Wurfrahmen 40 or 32cm Wurfrahmen 40

  8cm sGrW 34 81mm Mtr + light truck

 H  12cm sGrW 42 120mm Mtr + light truck

  infantry on light truck

  SMG infantry on light truck

  MG + light truck

  Pioneer + light truck

 infantry gun (motorized drawn)

 7.5cm leIG 18 + light truck

 infantry gun (motorized drawn)(Infantry/Grenadiers, Motorized Panzergrenadiers, Armored Panzergrenadiers)

 15cm sIG 33 + light truck

 anti-tank gun (motorized drawn)

'39-'41  PaK 35/36 37mm ATG + light truck;
 47mm PaK 141(f) ATG + light truck, or
 47mm PaK 36(t) ATG + light truck

'42-'45  Pak 38 50mm ATG + light truck,
 PaK 35/36 37mm ATG + light truck;
 47mm PaK 141(f) ATG + light truck, or
 47mm PaK 36(t) ATG + light truck

 anti-tank gun (motorized drawn)(Motorcycle Rifle [Kradschutzen] Battalion)

 PaK 35/36 37mm ATG + light truck

 anti-air gun (motorized)

'40-'41  SdKfz 10/4,  SdKfz 7/1, or
 truck w/AAMG

'42-'43  SdKfz 10/5,  SdKfz 10/4,  SdKfz 7/1, or
 truck w/AAMG

'44-'45  SdKfz 10/5, or  SdKfz 7/1

 anti-air gun (motorized drawn)

 2cm Flak 38 + light truck

 anti-air gun (motorized drawn)(Flak Kampftruppe)

 2cm Flak 30 + light truck or

 2cm Flak 38 + light truck

 anti-air gun (motorized drawn)(AA Platoon)

'39-'45  2cm Flak 30 + light truck,
 2cm Flak 38 + light truck, or
 3.7cm Flak 36/37 + light truck

  2cm Flakvierling 38 + light truck

  recon team + Kübelwagen or
 recon team + Schwimmwagen

  MG + Kübelwagen or  MG + Schwimmwagen

  infantry on motorcycle

¹¹ rare

  motorcycle recon

  MG + motorcycle

  MG on motorcycle

    infantry on bicycle

    SMG infantry on bicycle or infantry on bicycle

  8cm sGrW 34 81mm Mtr

  12cm sGrW 42 120mm Mtr

  MG

  heavy MG

  Panzerschreck team

  engineer

    infantry

 infantry gun

 7.5cm leIG 18

 infantry gun(Volksgrenadier Battalion 1944 - 1945)

 7.5cm leIG 18 or  7.5cm leIG 37

 infantry gun(heavy, Infantry/Grenadiers)

 15cm sIG 33

 105 gun (self-propelled)

Jul'43-'45  Wespe

 150 gun (self-propelled)

Jul'43-'45  Hummel

 150  Nebelwerfer 41

 150  Nebelwerfer 42

 105 howitzer

'38-'45  leFH 18

 150 howitzer

'38-'45  sFH 18