

MP5 Submachine Gun

Cal. 9 mm x 19

Instructions for Maintenance and Repair



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**Instructions for
Maintenance and Repair**

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Preface

1. These instructions apply to the submachine guns:
MP5 A2, fixed butt stock
MP5 A3, retractable butt stock
MP5 SD1, silencer and receiver cap
MP5 SD2, silencer and fixed butt stock
MP5 SD3, silencer and retractable butt stock.
MP5 K
2. These instructions contain information relating to care, servicing and field maintenance of the weapon.
3. Unless otherwise detailed, assembly or fitting of component groups is carried out in the reverse order analogue to the stripping and dismantling instructions.
4. Index numbers in illustrations and the text are identical to the serial numbers in the spare parts lists.
5. Technical modifications reserved.

1. Basic aspects of repair

1.1 General

Weapons in need of repair are normally detected during the course of routine examination, musters or parades and during technical and practical service use.

Unserviceable weapons are to be repaired by the authorized armament personnel without delay.

1.2 Repair

When the action of a weapon is faulty or it gives poor shooting results, it must first be examined to determine the cause(s) of the unserviceability.

The armament tradesman carrying out the repairs must have a sufficient level of trade knowledge.

He must be fully conversant with the following:

1. Construction of the weapon and its actions
2. Purpose, stress and limits of acceptable wear on the individual components
3. The use of related gauges and testing equipment
4. The correct procedure for systematic examination of the weapon.

Replacement parts are only to be incorporated if, after elimination of all other faults, the weapon cannot be brought up to the required condition.

1.3 Special notes on the treatment of submachine guns

Submachine guns and magazines are to be lightly oiled, and the receiver tracks lightly greased. Whenever possible, the magazine must be cleaned at least weekly, emptied and refilled, at the same time examining it for distortion such as buckling or bending. Damaged magazines are to be returned for repair or exchanged, as necessary. Distorted and corroded cartridges are to be rejected during cleaning.

2. Care and maintenance

2.1 Special notes regarding maintenance products and equipment

The following are to be used for cleaning and maintenance:

- the cleaning kit for cal. 5.6 to 6.5 mm
- the cleaning kit for cal. 7.62 to 9 mm
- clean patches and cleaning rags
- multi-purpose anticorrosive agent 0–190.

The submachine gun must not be cleaned

- with metallic objects
- with synthetics (e.g. Nylon etc.)
- with chemical agents (e.g. petroleum ether, trichlorethylene, etc.)
- with hot or cold water.

2.2 Maintenance instructions

2.2.1 Major cleaning

- Strip.
- Clean and dry using cleaning rags.
- Remove dirt and dust from joints and corners using the cleaning brush.
- Pull an oil-soaked cleaning brush through the barrel (best done while the barrel is still lukewarm, but not hot).
- Allow oil to work in for several hours.
- Then pull oil-soaked brush through the barrel several times again.
- Finally, use clean, dry patches until the barrel is clean.
- Oil barrel and moving parts lightly again.
- Reassemble the submachine gun.

Note:

The barrel must be cleaned and oiled for three consecutive days after every firing.

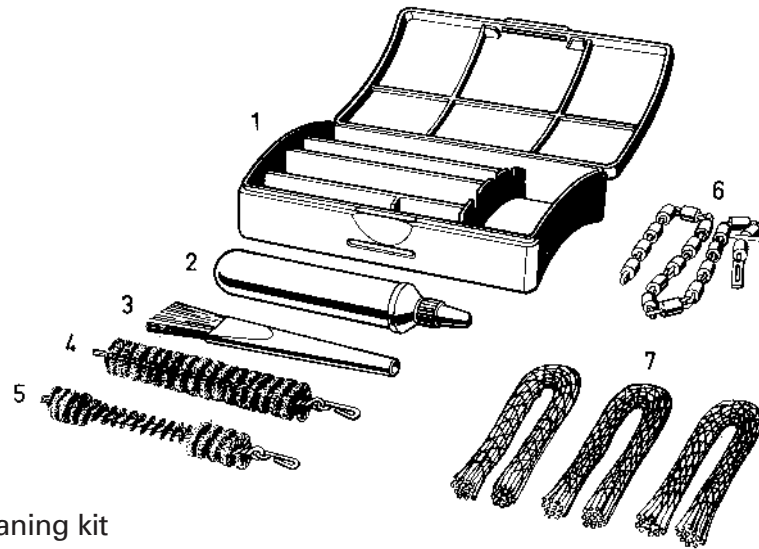


Fig. 1 Cleaning kit

- 1 Storage case
- 2 Oil can
- 3 Cleaning brush, flat
- 4 Oil brush
- 5 Cleaning brush
- 6 Cleaning chain
- 7 Pull through

2.2.2 Normal cleaning

The normal cleaning is basically the same as the major cleaning. However, the repeated cleaning and oiling of the barrel is not necessary.

2.2.3 Maintenance schedule

No.	Assembly or component	Work	Interval			
			after use	before firing	after firing	weekly
1	Barrel	clean and oil	x		x*	x
	Barrel	free from oil		x		
3	Rear sight	clean and check		x		
	Rear sight	clean and oil		x		
3	Bolt assembly	clean and oil	x		x	x
	Bolt assembly	strip, clean and oil				x
	Recoil spring guide rod with recoil spring	clean and oil	x		x	x
4	Butt stock	clean	x		x	x
	Butt stock, retractable	clean and oil	x		x	x
5	Grip assembly with trigger housing	clean and oil	x		x	x
6	Handguard	check for proper seat	x	x	x	x
7	Magazine	check for damages	X	x	x	x
8	Accessories	clean, check	X		x	x

* Clean and oil for three consecutive days after firing

2.3 Functional test

2.3.1 Magazine

- It must be possible for the follower to be pushed downward freely within the magazine housing by hand (wooden stick) and for the follower spring to push it upward again without interference.
- The magazine must not jam in the magazine well.
- The magazine must be held securely by the magazine catch.

2.3.2 Cocking and loading

Engage the safety!

- Pull back cocking lever and engage in the recess in the cocking lever housing.
- Check if barrel is clear.
- Insert magazine filled with two dummies into the magazine well.
- Let cocking lever snap forward; this must chamber the dummy.
- Operate cocking lever. The first dummy must be extracted and ejected; the second dummy must be fed and chambered.
- Unload the submachine gun.

2.3.3 Safety

- It must be possible for the safety lever to be moved to its different positions and it must engage securely.

2.3.4 Trigger mechanism

- Disengage the safety.
- With the hammer **cocked**, it must be possible for the trigger to be pulled back against increased pull until the hammer is released.
- With the hammer **uncocked**, it must be possible for the trigger to be pulled back against slight pull.
- Engage the safety.

2.4 Safety precautions

The ease with which the position and direction of the submachine gun can be changed, calls for particular care in its handling.

It is absolutely forbidden to pass a cocked and loaded weapon to another person.

The safe handling of the weapon is ensured by:

- the safety mechanism
- the design of the trigger mechanism
- the bolt system.

2.4.1 How to proceed in the event of unusual circumstances

In the event of unusual circumstances such as ruptured or stuck bullets, the submachine gun must be left in its existing condition and not be cleaned; it must then be immediately returned to the armoury for inspection by competent armament personnel.

2.5 Trouble-shooting chart

Trouble	Cause	Remedy
1. Bolt moves forward without feeding cartridge	<ul style="list-style-type: none"> a) Magazine is not inserted properly b) Magazine loose c) Magazine lips deformed 	<ul style="list-style-type: none"> a) Insert magazine properly b) Check magazine catch. If worn, turn in for repair c) Insert new magazine and turn in defective one for repair
2. Cartridge case not extracted or ejected	<ul style="list-style-type: none"> a) Extractor or extractor spring broken b) Ejector defective c) Chamber fouled 	<ul style="list-style-type: none"> a) Turn in for repair b) Turn in for repair c) Clean chamber
3. Cartridge does not ignite	<ul style="list-style-type: none"> a) Firing pin broken b) Firing pin too short c) Faulty ammunition 	<ul style="list-style-type: none"> a) and b) Turn in for repair c) Pull back and release cocking lever to chamber new round
4. Bolt not completely closed; round not fully fed	<ul style="list-style-type: none"> a) Chamber fouled b) Barrel extension fouled c) Deformed cartridge d) Recoil spring worn 	<ul style="list-style-type: none"> a) and b) Clean c) Pull back and release cocking lever to chamber new round d) Turn in for repair
5. Submachine gun fires irregularly	<ul style="list-style-type: none"> a) Chamber fouled b) Magazine not inserted properly c) Magazine fouled or deformed d) Defective ammunition 	<ul style="list-style-type: none"> a) Clean b) Insert magazine properly c) Insert new magazine; turn in defective magazine for repair d) Use other ammunition

3. Instructions for Maintenance and Repair	Sheet No.
Submachine gun, complete	3.1–3.5
Receiver with barrel, cocking lever housing, front sight holder and magazine release lever	3.6–3.10
Bolt assembly	3.11–3.15
Grip assembly	3.16
Butt stock, fixed and retractable	3.17
Magazine	3.18
Handguard	3.19
Carrying sling	3.20
Silencer	3.21

Designation of operation (s):

Checking the submachine gun before shooting – Safety engaged, submachine gun unloaded

Description of operation (s):

- Check the submachine gun for cleanness and proper condition.
- Check the submachine gun assemblies for proper seat.
- Check the submachine gun (see paragraph “Maintenance instructions”).



Tools:

Gauges:

Auxiliaries:

Weapons cleaning kit for cal. 7.62 mm – 9 mm

Designation of operation (s):

Checking the submachine gun before shooting – Safety engaged, submachine gun unloaded

Description of operation (s):

– Check function of cartridge feed and ejection, trigger mechanism and safety:

Pull back cocking lever which must smoothly engage in the recess in the cocking lever housing. A friction-free rearward motion of the bolt must be ensured.

When releasing the cocking lever, the dummy must be properly chambered.

When pulling back the cocking lever, the dummy must be properly ejected.

With the safety lever in positions "E" (single fire) and "F" (burst fire) it must be possible to squeeze the trigger and to overcome the let-off pressure without any restriction.

The safety lever must securely engage in the positions "S" (safe), "E" (single fire) and "F" (burst fire).

Tools:

Gauges:

Auxiliaries:

Use emptied and ignited cartridges

Designation of operation (s):

Sighting-in of the the submachine gun

Description of operation (s):

- Submachine gun to be sighted in at range of 27.5 yds (25 m).
- Rectify point of impact, if necessary.
- Elevation adjustment:
Insert elevation adjustment tool into the rear sight cylinder so that the wedges of the tool engage in the two slots in the cylinder which contain the catch bolts. Press Phillips-head screwdriver downward into the adjustment tool and hold firm. Turn rear sight cylinder manually in the desired direction. Turning clockwise lowers the point of impact by 0.55 in. (1.4 cm) per click at 27.5 yds (25 m), turning counter-clockwise raises it correspondingly. After correction withdraw Phillips-head screwdriver and remove elevation adjustment tool. The catch bolts will then re-engage in the slots. After performing the elevation adjustment set the desired aperture again.
- Windage adjustment:
Point of impact, left: Loosen clamping screw on top of sight base. Turn adjusting screw on the right side counter-clockwise in accordance with the required correction. Then retighten clamping screw.
Point of impact, right: Loosen clamping screw. Turn adjusting screw clockwise until the required correction has been performed. Then retighten clamping screw.

Note:

Each revolution of the adjusting screw moves the mean point of impact 2.17 in. (5.5 cm) to the left or right at a range of 27.5 yds (25 m).

Tools:

Rear sight adjusting tool 1013 W4

Gauges:

Auxiliaries:

Designation of operation (s):
Adjusting the rear sight

Description of operation (s):



Elevation adjustment



Loosening the clamping screw



Rotating the adjusting screw

Tools:

Gauges:

Auxiliaries:

Designation of operation (s):

Checking the head space

Description of operation (s):

– Engage safety. Remove magazine.

Head space is correct when the gap between bolt head and bolt head carrier amounts to 0.1–0.5 mm.

It may **not** be possible to introduce the feeler size 0.5.



Tools:

Gauges:

Feeler gauge 1013 L3

Auxiliaries:

Maintenance Instructions

Part:

Receiver with barrel, cocking lever housing, front sight holder and magazine release lever

Weapon:

MP5

Designation of operation (s):

Cleaning the barrel, cocking lever housing, front sight holder and magazine release lever and checking all assemblies and subassemblies for proper seat

Description of operation (s):

- Check bore for powder residues and damages using the bore scope.
- Clean and oil receiver, barrel extension and barrel.



Tools:

Cleaning rod 25–110 W1
Chamber cleaning brush 100407 W4 with rod 100407 W1
Bore scope St 510115

Gauges:

Auxiliaries:

Gun oil, pull throughs

Sheet No.:

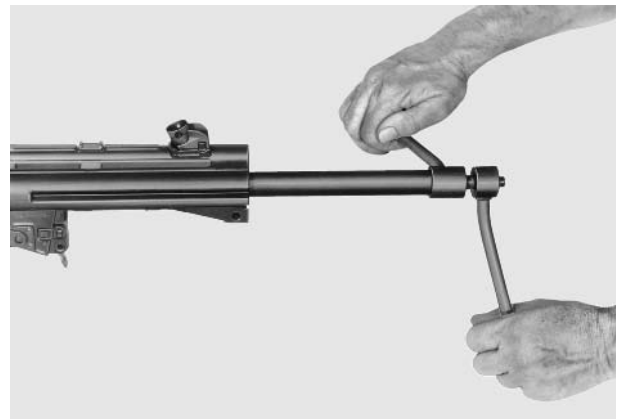
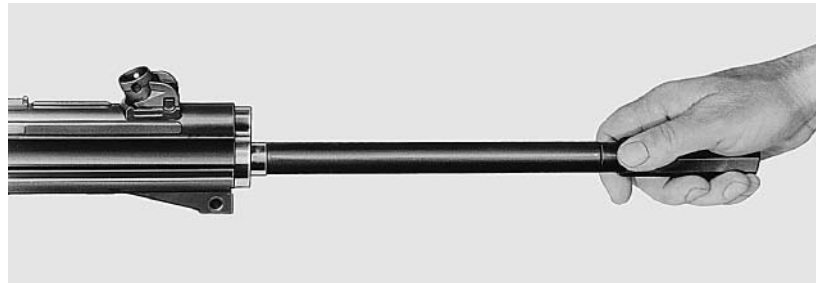
3.6

Designation of operation (s):

Removing dents in receiver and cocking lever housing

Description of operation (s):

- Clamp barrel with receiver into vice and check guide in the receiver for smooth operation of bolt assembly by means of "Go" and symmetry gauge.
- Remove dents in the receiver and cocking lever housing with straightening mandrels and plastic hammer.



Tools:

Straightening mandrel for receiver 25–110.000 V14

Straightening mandrel for cocking lever housing 1013–100 W5

Gauges:

"Go" and symmetry gauge 100407–100 L2

Auxiliaries:

Plastic hammer

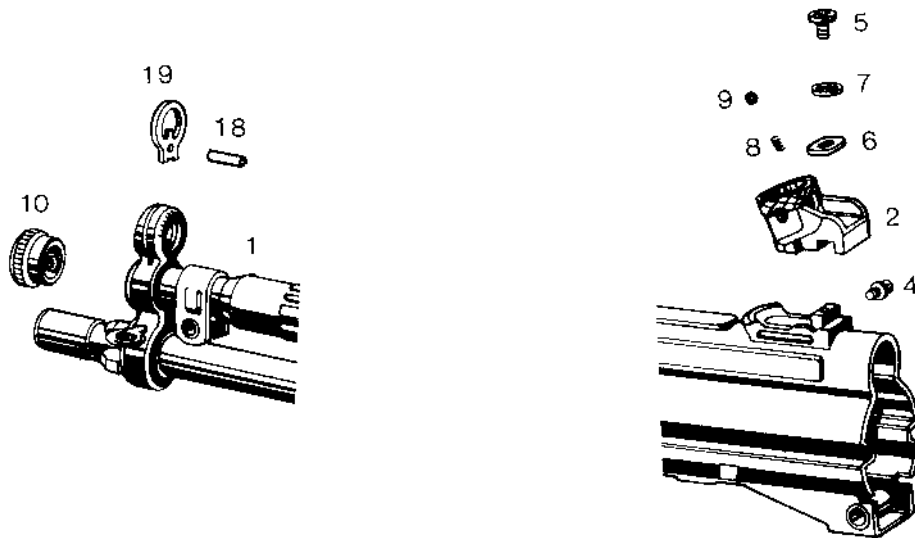
Designation of operation (s):

Checking the rear sight, replace, if necessary

Description of operation (s):

- Check rear sight cylinder for smooth operation and secure seat.
- Apertures may not be dented.
- If necessary, replace rotary rear sight (2) (spare parts set 3).
- Check if front sight (19) is securely seated in the front sight holder.
- If necessary, replace front sight.

Note: After replacing sight components, the submachine gun has to be sighted-in (see sheets 3.3 and 3.4).



Tools:

Pin punch, dia 3.5

Clamping sleeve retaining tool 1013-101.53 W1

Rear sight adjusting tool 1013 W4

Gauges:

Auxiliaries:

Maintenance Instructions

Part:

Receiver with barrel, cocking lever housing,
front sight holder and magazine
release lever

Weapon:

MP5

Designation of operation (s):

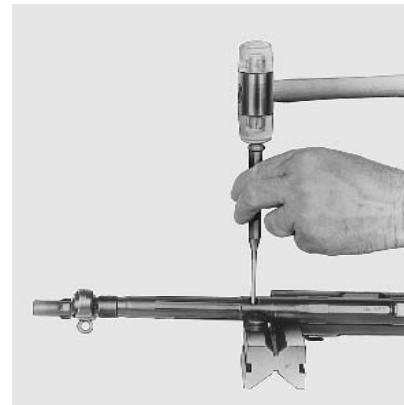
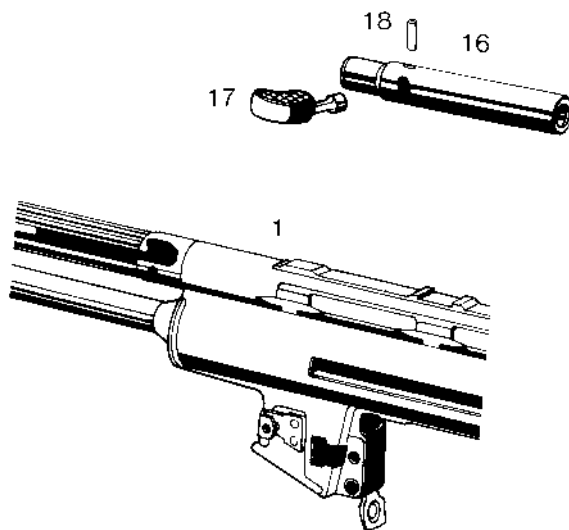
Checking the cocking device, replace, if necessary

Description of operation (s):

Check cocking device for damages.

Check serviceability of cocking lever (17) and cocking lever support (16).

Replace components, if necessary.



Tools:

Pin punch, dia 5

Gauges:

Auxiliaries:

Sheet No.:

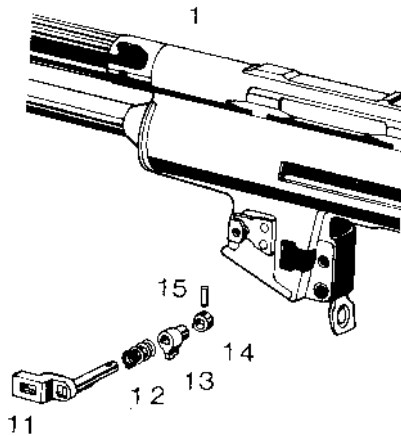
3.9

Designation of operation (s):

Checking the magazine catch, replace, if necessary

Description of operation (s):

- Check magazine catch (11) for smooth operation.
- Replace components, if necessary.



Tools:

Pin punch, dia 2.5

Clamping sleeve retaining tool 1013-101 W4

Gauges:

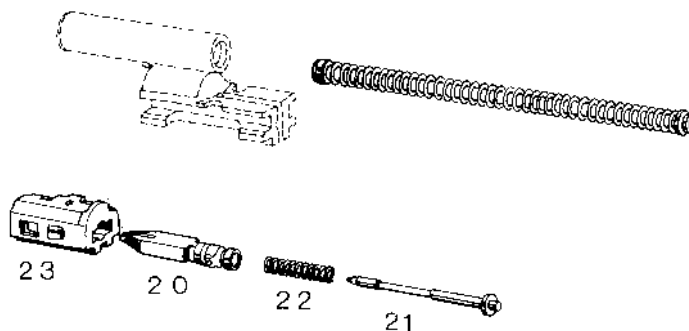
Auxiliaries:

Designation of operation (s):

Stripping, cleaning and checking the bolt assembly

Description of operation (s):

- Strip the bolt assembly.
- Clean the bolt components.
- Check the bolt components (20–23) for damages, dents and wear, replace, if necessary.
- Oil bolt components.
- Reassemble bolt assembly.



Tools:

Gauges:

Auxiliaries:

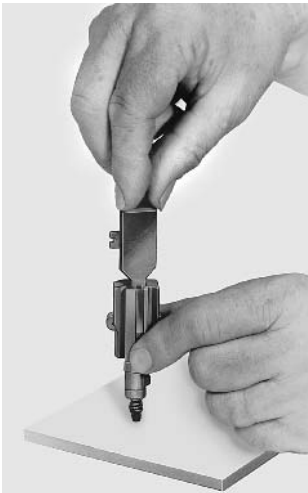
Gun oil

Designation of operation (s):

Checking the firing pin protrusion
Checking the shape of the firing pin

Description of operation (s):

- To measure the firing pin protrusion, both firing pin (21) and locking piece (20) must be introduced entirely into the bolt head (23) so that the firing pin protrudes at the bolt face.
 - The “Go” side of the gauge is placed on the firing pin. The front measuring flat side must rest on the bolt face.
 - The firing pin protrusion is correct if the “Go” size is 1.14 mm – 1.60 mm.
- Check the shape of the firing pin as shown in the figure below.



Tools:

Gauges:

Limit gauge for firing pin protrusion 100407–200 L1

Auxiliaries:

Designation of operation (s):

Checking the extractor protrusion

Description of operation (s):

- Introduce extractor protrusion gauge into bolt head below extractor claw.
- The extractor protrusion is correct when the “Go” side of the gauge can smoothly be turned under the extractor claw.



Tools:

Gauges:

Extractor protrusion gauge 94227-122 L2

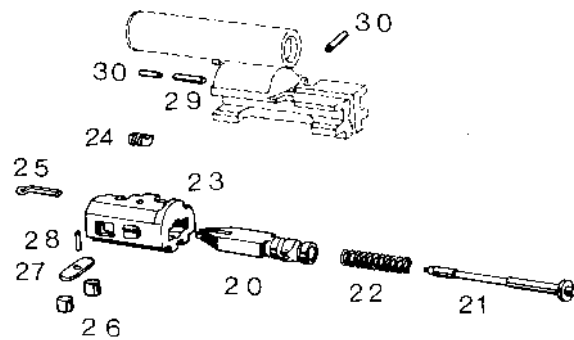
Auxiliaries:

Designation of operation (s):
Replace bolt components

Description of operation (s):

- Strip the bolt assembly.
- Fit new bolt components (see also 3.15)
- Punch out clamping sleeve (30) and stop pin (29), then jolt both parts in the bore.
- Punch out second clamping sleeve (30).
- Fit new clamping sleeve and stop pin.

Note: When fitting parts 29 and 30, set at first clamping sleeve (30) and then punch in simultaneously both clamping sleeve and stop pin (29).



Tools:

Pin punch, dia 1.8
Clamping sleeve retaining tool 2.5
Disassembly mandrel (for extractor spring)

Gauges:

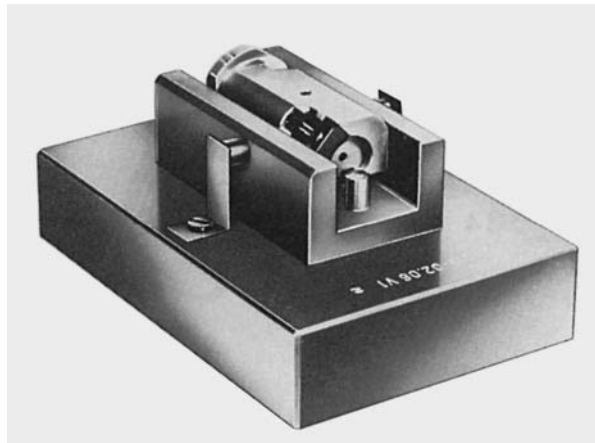
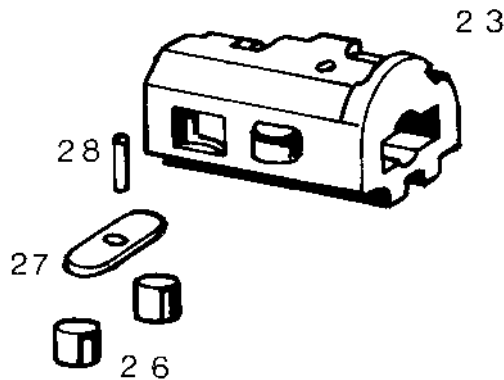
Auxiliaries:

Designation of operation (s):

Replacing the locking rollers

Description of operation (s):

- Push out clamping sleeve (28) from bolt head (23).
- Remove holder for locking rollers (27) and locking rollers (26) from bolt head.
- Push locking rollers and holder into bolt head.
- Place bolt head in assembly fixture so that the face of the bolt head comes to rest at the cylindrical pin.
- Insert new clamping sleeve into bolt head.



Tools:

Assembly fixture 1013–02.06 W2 Pin punch, dia 1.8
Clamping sleeve retaining tool 1013–02.06 W2
Plastic hammer

Gauges:

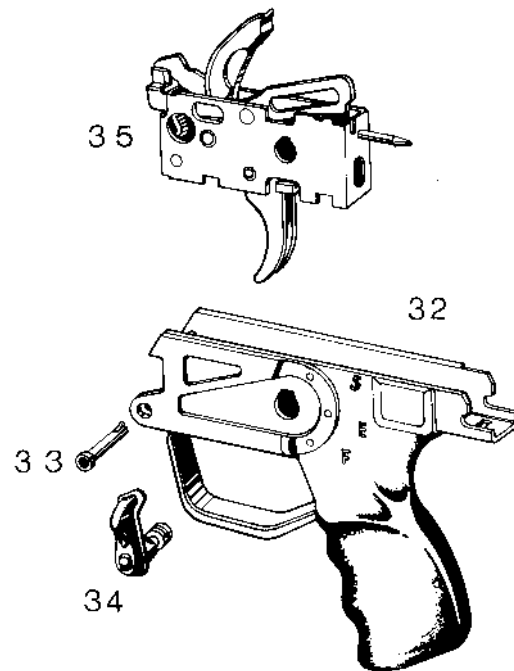
Auxiliaries:

Designation of operation (s):

Cleaning and checking the grip assembly

Description of operation (s):

- Remove trigger housing (35) from pistol grip (32).
- Clean trigger housing and pistol grip.
- Check components for damages, dents and wear.
- Replace components, if necessary.
- Oil components.
- After reassembly, check trigger mechanism and safety for smooth operation.



Tools:

Gauges:

Auxiliaries:

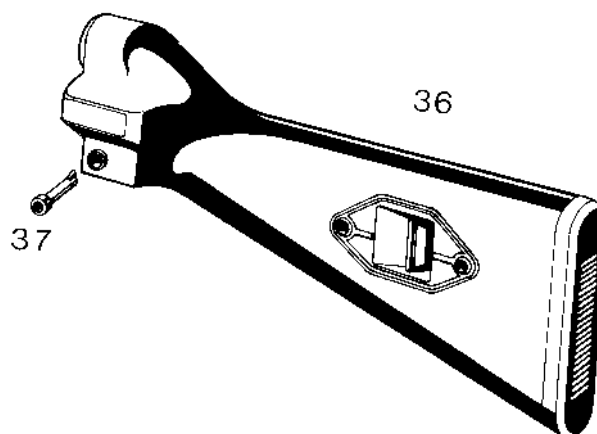
Gun oil

Designation of operation (s):

Checking the butt stock

Description of operation (s):

- Clean the butt stock.
- Check for damages, dents and wear.
- Check retractable butt stock for proper function.
- Oil functional parts.



Tools:

Gauges:

Auxiliaries:

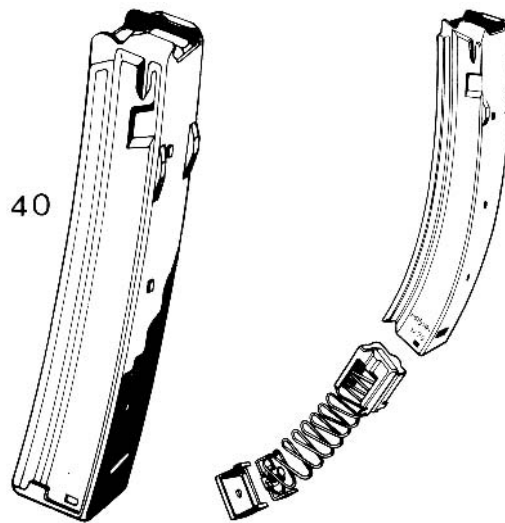
Gun oil

Designation of operation (s):

Checking the magazine

Description of operation (s):

- Clean and oil magazine.
- Check for damages, dents, serviceability of the follower, correct position of cartridges in the magazine lips, floor plate for secure seat, if magazine is securely seated in the magazine catch.



Tools:

Gauges:

Auxiliaries:

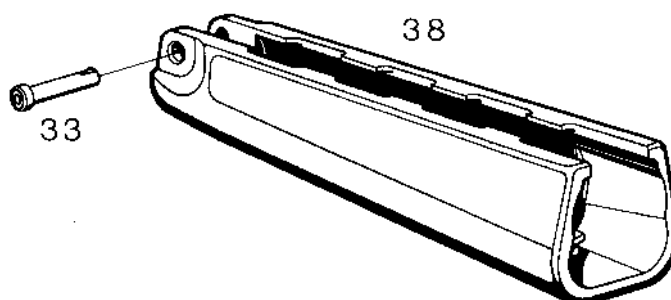
Gun oil

Designation of operation (s):

Checking the handguard

Description of operation (s):

- Clean the handguard.
- Check for damages and cracks,
locking pin for secure seat,
handguard for secure seat.



Tools:

Gauges:

Auxiliaries:

Designation of operation (s):
Checking the carrying sling

Description of operation (s):

- Clean the carrying sling.
- Check sling for damages,
brittleness and function.



Tools:

Gauges:

Auxiliaries:

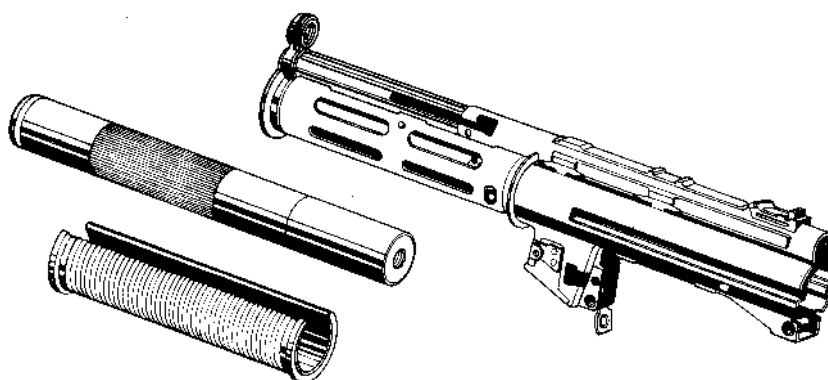
Designation of operation (s):

Checking the silencer

Description of operation (s):

- Clean the silencer.
- Check for damages,
dents,
proper seat in the receiver and on the barrel.
- If dispersion circle is too large, replace silencer.

Note: For cleaning of the silencer no oily cleaning agents may be used.



Tools:

Cleaning brush for MP5 SD Ident. No. 225 376

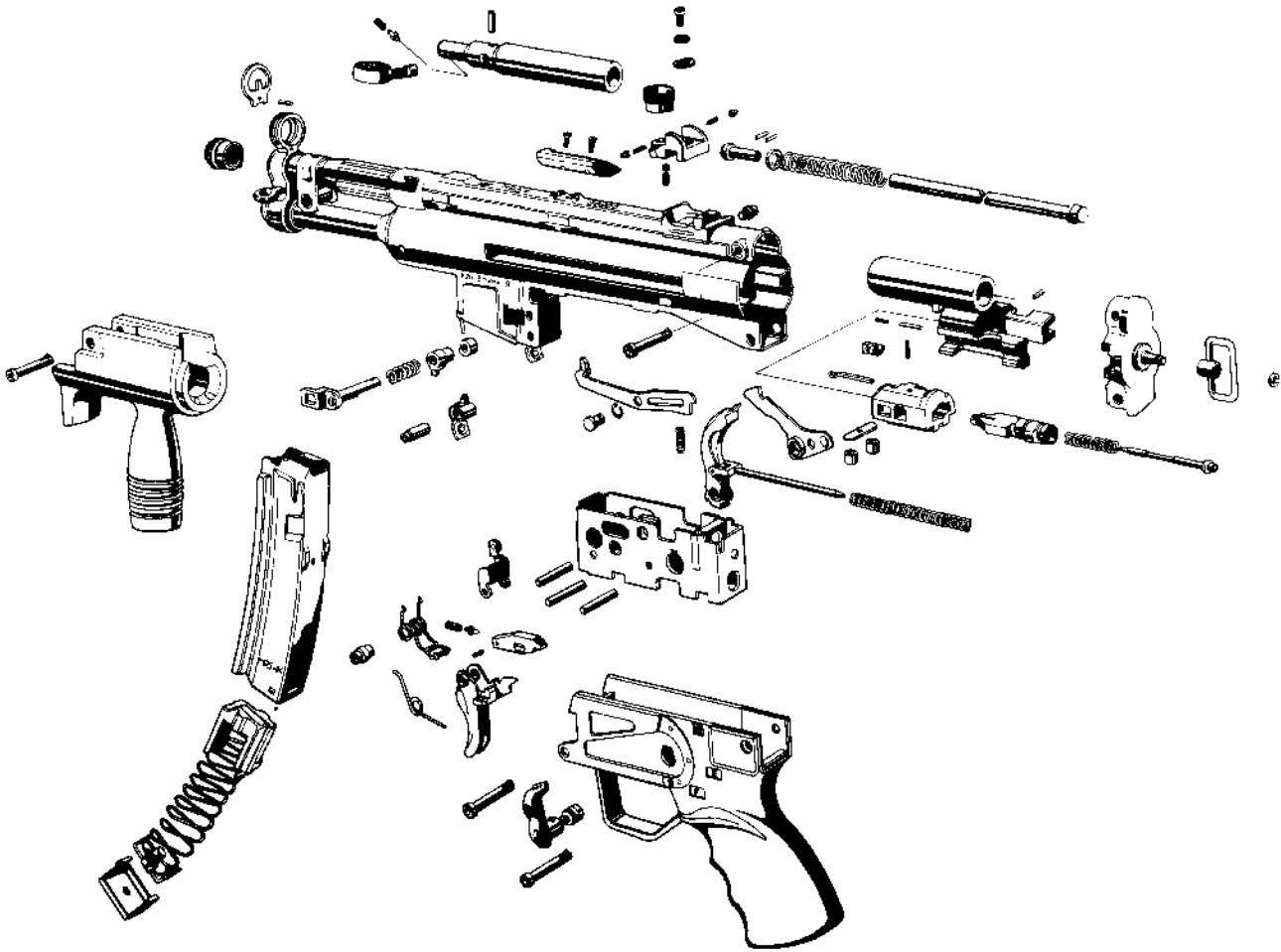
Gauges:

Auxiliaries:

Designation of operation (s):

The MP5 K maintenance operations to be performed are analogously identical with those which are applicable to the MP5 A2 and MP5 A3 submachine guns.

Description of operation (s):

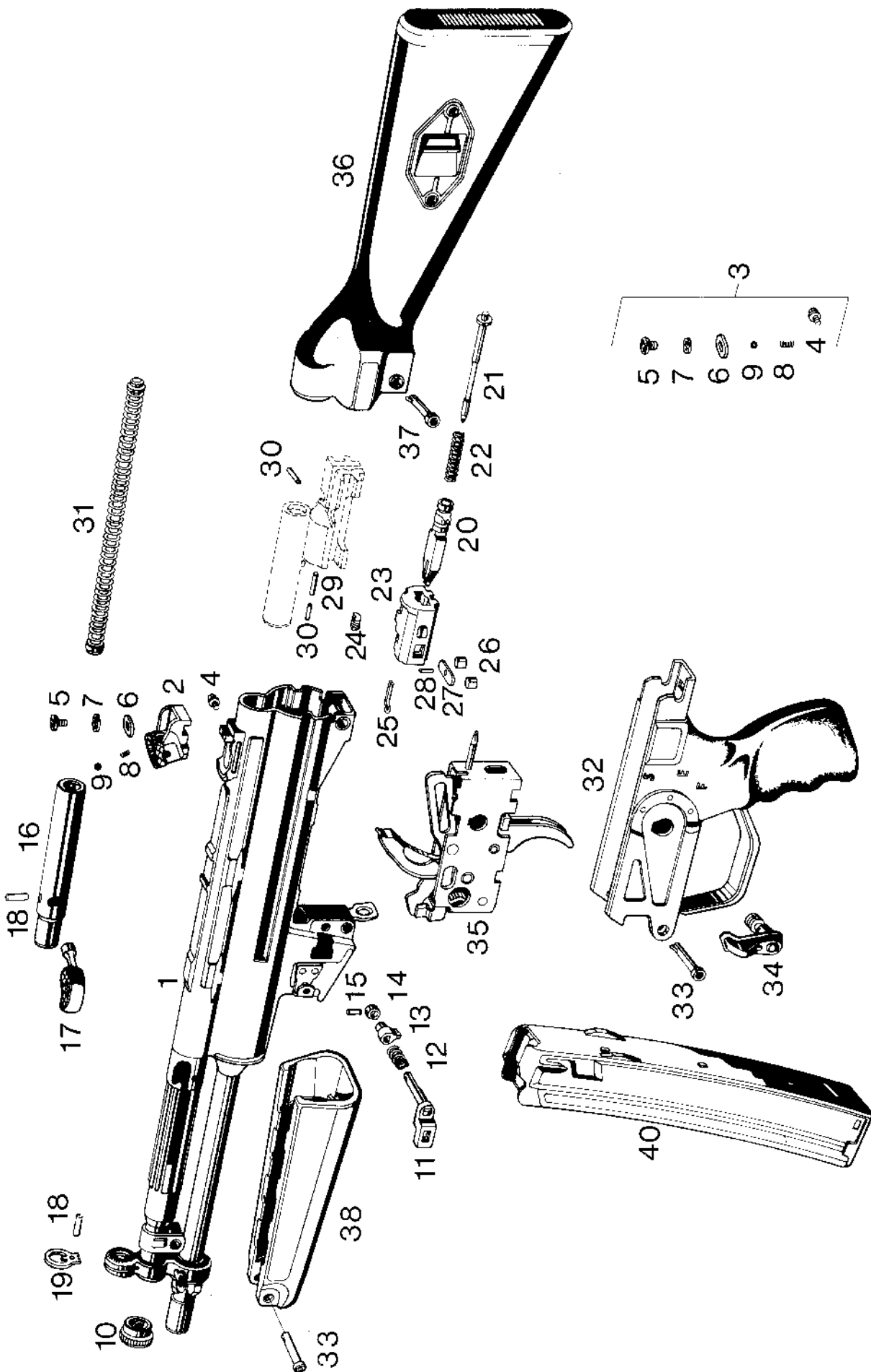


Tools:

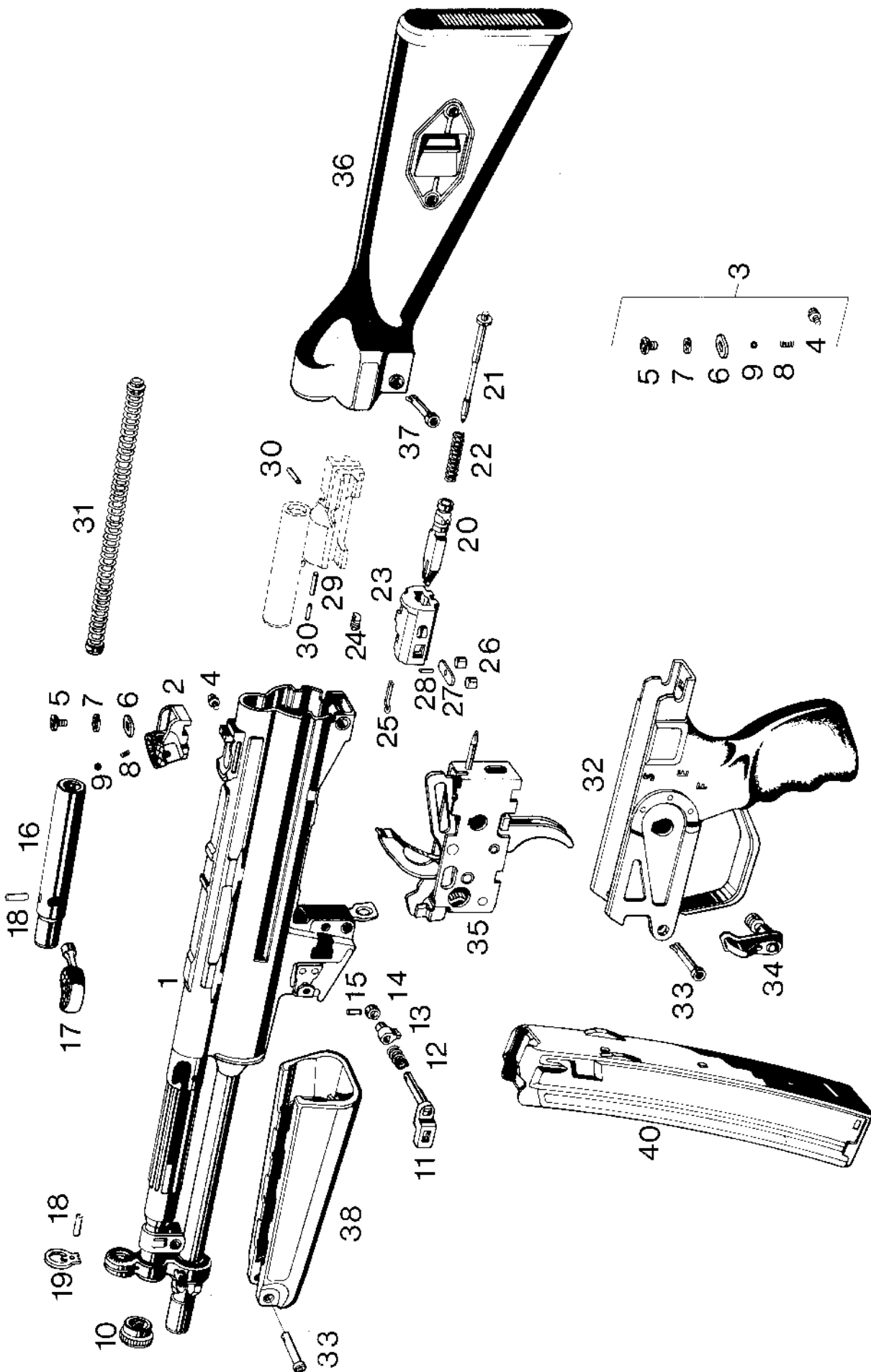
Gauges:

Auxiliaries:

4. Spare parts



Item	Parts Designation	Part No.	Ident. No.	Qty of parts per 100 arms/ devices		Remarks
1	2	3	4	5	6	7
1	Receiver with barrel, cocking lever housing, front sight holder and magazine release lever	100407-190/1	206 615	3		
2	Rotary rear sight	25-104	201 515	5		
3	Spare parts set for rotary rear sight, comprising:	St 1013-300	200 988	10		
4	Windage adjusting screw	1013-101.30	200 384			
5	Clamping screw	1013-101.29	200 372			
6	Washer	1013-101.28	200 371			
7	Toothed lock washer	A 5.3 DIN 6798	922 617			
8	2 Ball springs	1013-101.09	200 383			
9	2 Balls	3 III-6 DIN 5401	929 897			
10	Cap, compl.	100229/5-01,14	206 497	3		
11	Magazine catch, compl.	100407-100.01	214 858	5		
12	Compression spring for magazine catch	1013-01.25	200 393	20		
13	Contact piece for magazine catch	25-103.031	201 517	5		
14	Push button for magazine catch	1013-01.27	200 396	5		
15	Clamping sleeve	ISO 8752-2.5x10	985 062	30		
16	Cocking lever support, compl.	9590-1200	205 906	5		
17	Cocking lever	9590-1100	205 905	5		
18	Clamping sleeve	4 x 12 DIN 1481	922 609	20		
19	Front sight	1013-101.51	200 415	5		
20	Locking piece	25-200.011	201 599	3		
21	Firing pin	25-200.021	201 600	5		
22	Firing pin spring	94227-120.03	214 327	5		
23	Bolt head, compl. (item 23-28)	94227-122	214 412	3		
24	Extractor	94227-122.03	214 414	10		



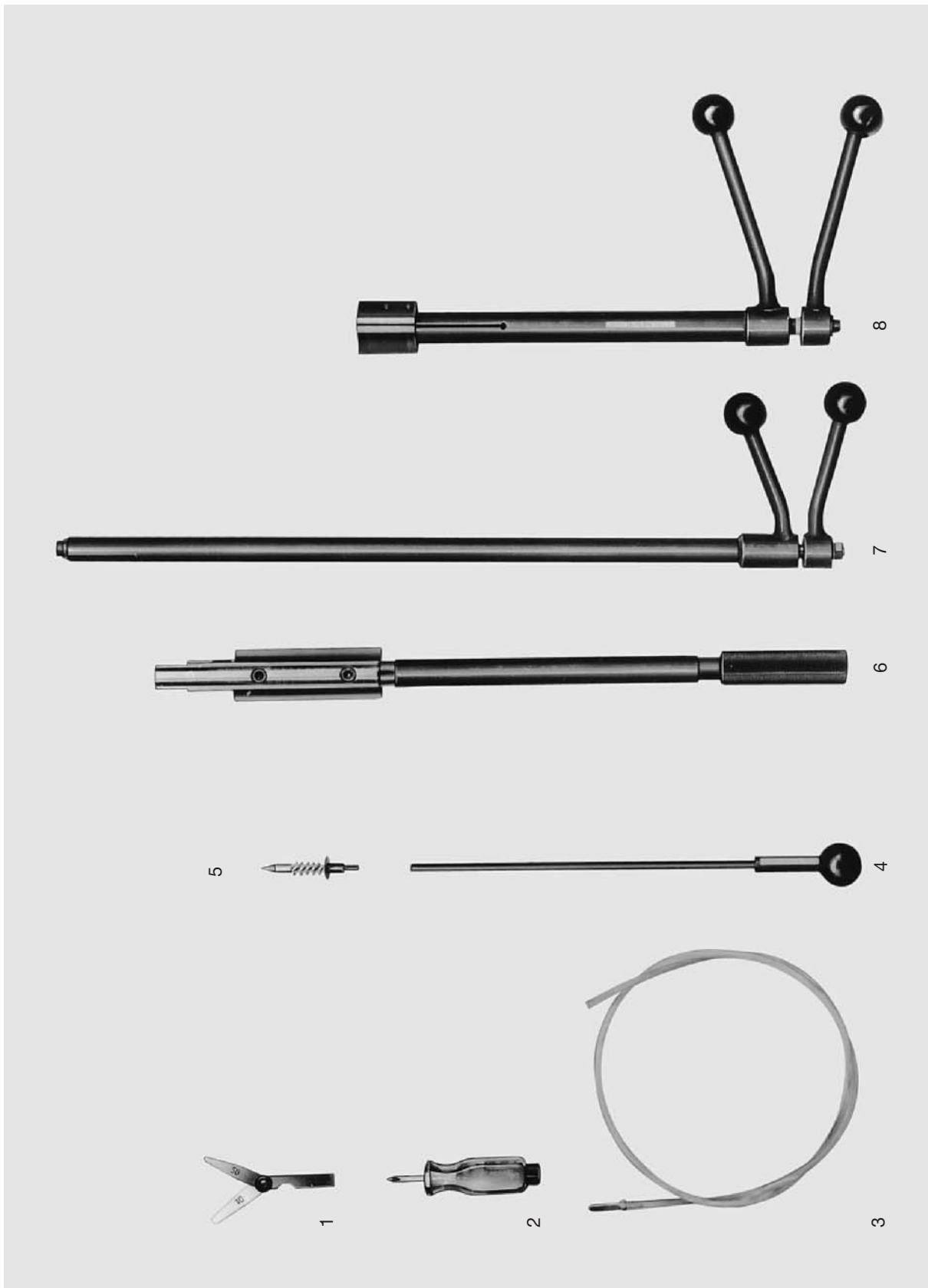
Item	Parts Designation	Part No.	Ident. No.	Qty of parts per 100 arms/ devices	Remarks
1	2	3	4	5	7
25	Extractor spring	100407-220.08	206 645	15	
26	Locking roller, oversize 0.02	1013-02.100	200 447	10	
27	Holder for locking rollers	94227-122.09	214 333	5	
28	Clamping sleeve 2 x 6.9	1013-02.12	200 450	15	
29	Stop pin	25-230.011	201 597	20	
30	Clamping sleeve 2 x 5, as DIN 1481	100407-200.16	205 597	40	
31	Recoil spring guide rod, compl.	100407-211	205 596	3	
32	Grip	25-320	201 628	5	
33	Locking pin for grip and handguard	1013-03.01	200 459	15	
34	Safety, compl.	9230-330	221 202	5	
35	Trigger housing, compl.	100407-330/1	206 235	3	
36	Fixed butt stock	25-500	205 586	3	
37	Butt stock locking pin	1013-04.01	200 520	5	
38	Handguard	100407/5-600.01	206 535	3	
39	Multi-purpose carrying sling R3/3	100407/3-800	205 506	2	
40	Magazine, 30 rounds	25-950	206 349	5	
41	Magazine, 15 rounds	25-930	206 477	5	

Item	Parts Designation	Part No.	Ident. No.	Qty of parts per 100 arms/ devices	6	Remarks
1	2	3	4	5	6	7
1	<p>MP5A3 same as MP5A2 The following parts, however, differ from MP5A2: Retractable butt stock</p>	25-800	225 558	3		
1	<p>MP5SD1 same as MP5A2 The following parts, however, differ from MP5A2: Receiver with barrel, cocking lever housing, front sight holder and magazine release lever</p>	9590-1301/1	206 722	3		
2	Cap, compl.	95901-400	205 933	3		
3	Silencer, compl.	9590-680	205 903	3		
4	Handguard	9590-600	206 472	5		
5	Locking piece	9590-2000.02	205 316	3		
6	Sealring	9590-0000.01	206 469	5		

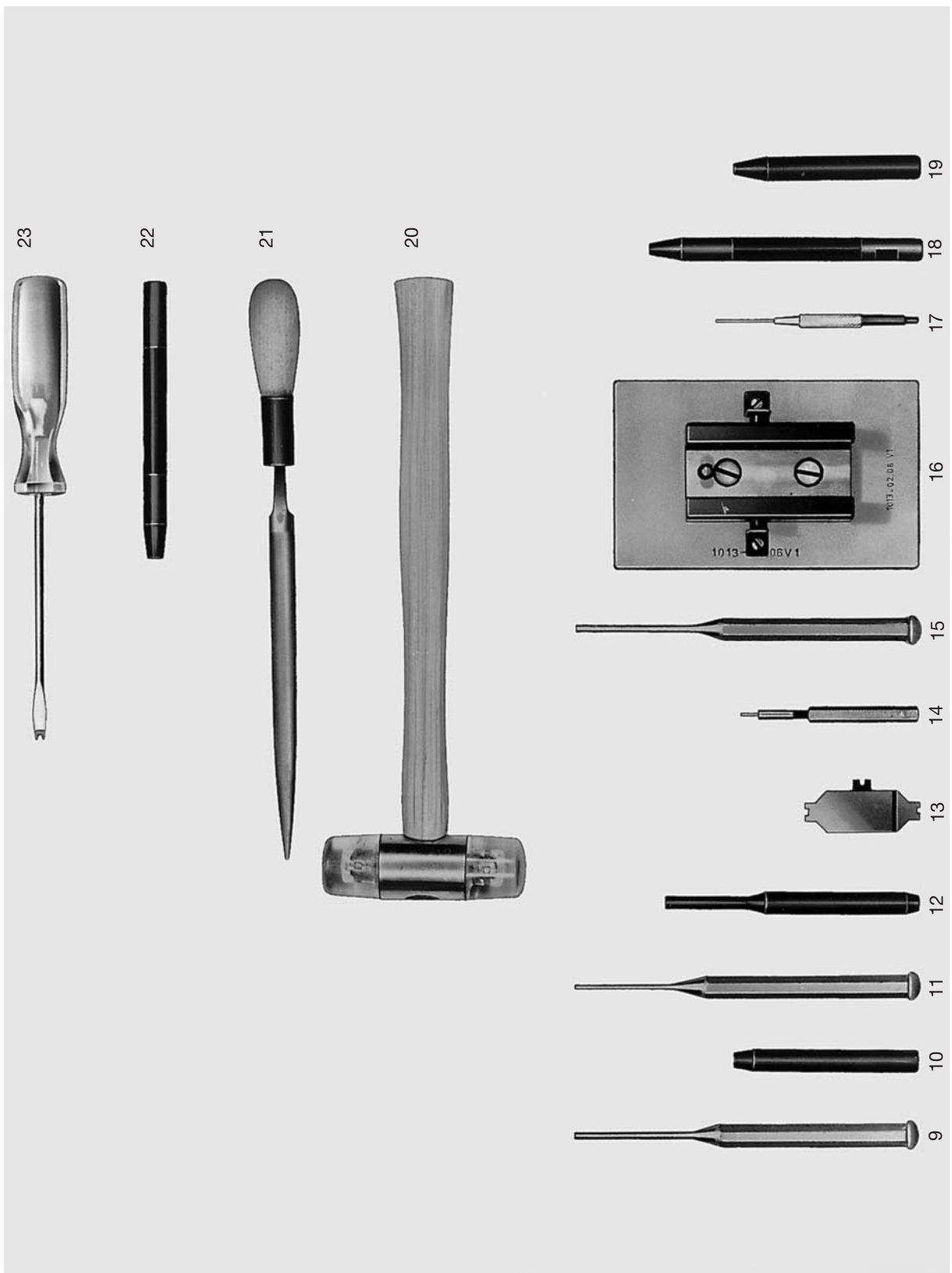
Item	Parts Designation	Part No.	Ident. No.	Qty of parts per 100 arms/ devices		Remarks
1	2	3	4	5	6	7
1 2 3 4 5	<p>MP5SD2 same as MP5A2 The following parts, however, differ from MP5A2: Receiver with barrel, cocking lever housing, front sight holder and magazine release lever Silencer, compl. Handguard Locking piece Sealing</p>	9590-1301/1 9590-680 9590-600 9590-2000.02 9590-0000.01	206 722 205 903 206 472 205 316 206 469	3 3 5 3 5		
1 2 3 4 5 6	<p>MP5SD3 same as MP5A2 The following parts, however, differ from MP5A2: Receiver with barrel, cocking lever housing, front sight holder and magazine release lever Retractable butt stock Silencer, compl. Handguard Locking piece Sealing</p>	9590-1301/1 25-400 9590-680 9590-600 9590-2000.02 9590-0000.01	206 722 201 509 205 903 206 472 205 316 206 469	3 3 3 5 3 5		

Item	Parts Designation	Part No.	Ident. No	Qty of parts per 100 arms/ devices	6	Remarks
1	2	3	4	5	6	7
1	MP5 K same as MP5A2	95-190/1	206 721	3		
2	Receiver with barrel, cocking lever, housing, front sight holder, magazine release lever.	95-104	206 407	5		
3	Rotary rear sight	95-106	206 423	5		
4	Cocking lever support, compl.	95-211	206 400	3		
5	Recoil spring guide rod, compl.	95-320	206 404	5		
6	Grip	95-400	206 409	3		
7	Receiver cap, compl. Handguard	95-600.01	206 421	5		

5. Special tools, fixtures and gauges



Item	Parts Designation	Part No.	Ident. No.	Qty. of parts per 100 arms/ devices	Req. per Maint. Unit	Remarks
1	2	3	4	5	6	7
1	Feeler gauge	1013 L3	300 019		3	
2	Rear sight adjusting tool, consisting of 2 parts, for rotary rear sight	1013 W4	300 009		5	
3	Cleaning rod	25-110 W1	317 713		20	
4	Cleaning rod	100407 W1	313 927		3	
5	Chamber cleaning brush	100407 W4	305 279		50	
6	"Go" and symmetry gauge	100407-100 L2	314 035		1	
7	Straightening mandrel for cocking lever housing	1013-100 W5	300 573		1	
8	Straightening mandrel for receiver	25-110.000 V14	313 928		1	



Item	Parts Designation	Part No.	Ident. No.	Qty of parts per 100 arms/ devices	Req. per Maint. Unit	Remarks
1	2	3	4	5	6	7
9	Pin punch, dia 3.5		957 942		5	
10	Clamping sleeve retaining tool	1013-101.53 W1	300 767		3	
11	Pin punch, dia 2.5		958 214		5	
12	Clamping sleeve retaining tool	1013-101 W4	300 591		3	
13	Limit gauge for firing pin protrusion	100407-200 L1	322 165		3	
14	Extractor protrusion gauge	94227-122 L2	352 185		3	
15	Pin punch, dia 4		958 215		5	
16	Assembly fixture	1013-02.06 V1	301 101		1	
17	Pin punch, dia 1.8	51287 018	957 310		5	
18	Clamping sleeve retaining tool, dia 2.5	Ref. No. 12.17	318 270		3	
19	Clamping sleeve retaining tool	1013-02.06 W2	301 105		3	
20	Plastic hammer		957 422		2	
21	Half round file 150 x 12 x 3		952 834		2	
22	Clamping sleeve retaining tool, dia 4.5	Ref. No. 12.19	318 272		3	
23	Disassembly mandrel (for extractor spring)	961 380	318 615		3	



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