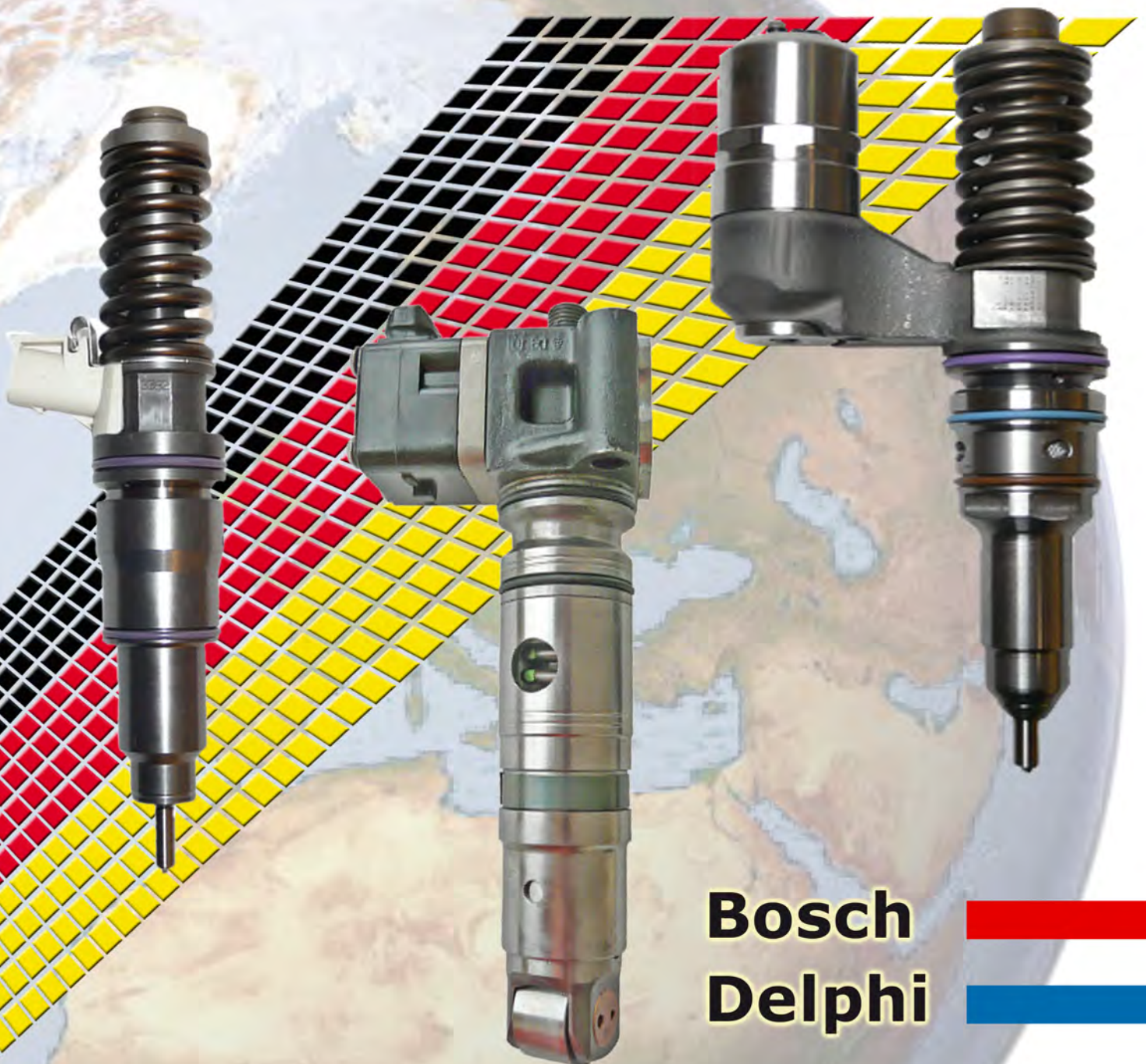


UPS / PLD

UIS / PDE

Spare Parts



Bosch
Delphi





Qualitätsmanagement
Wir sind zertifiziert
Regelmäßige freiwillige
Überwachung nach ISO 9001:2008



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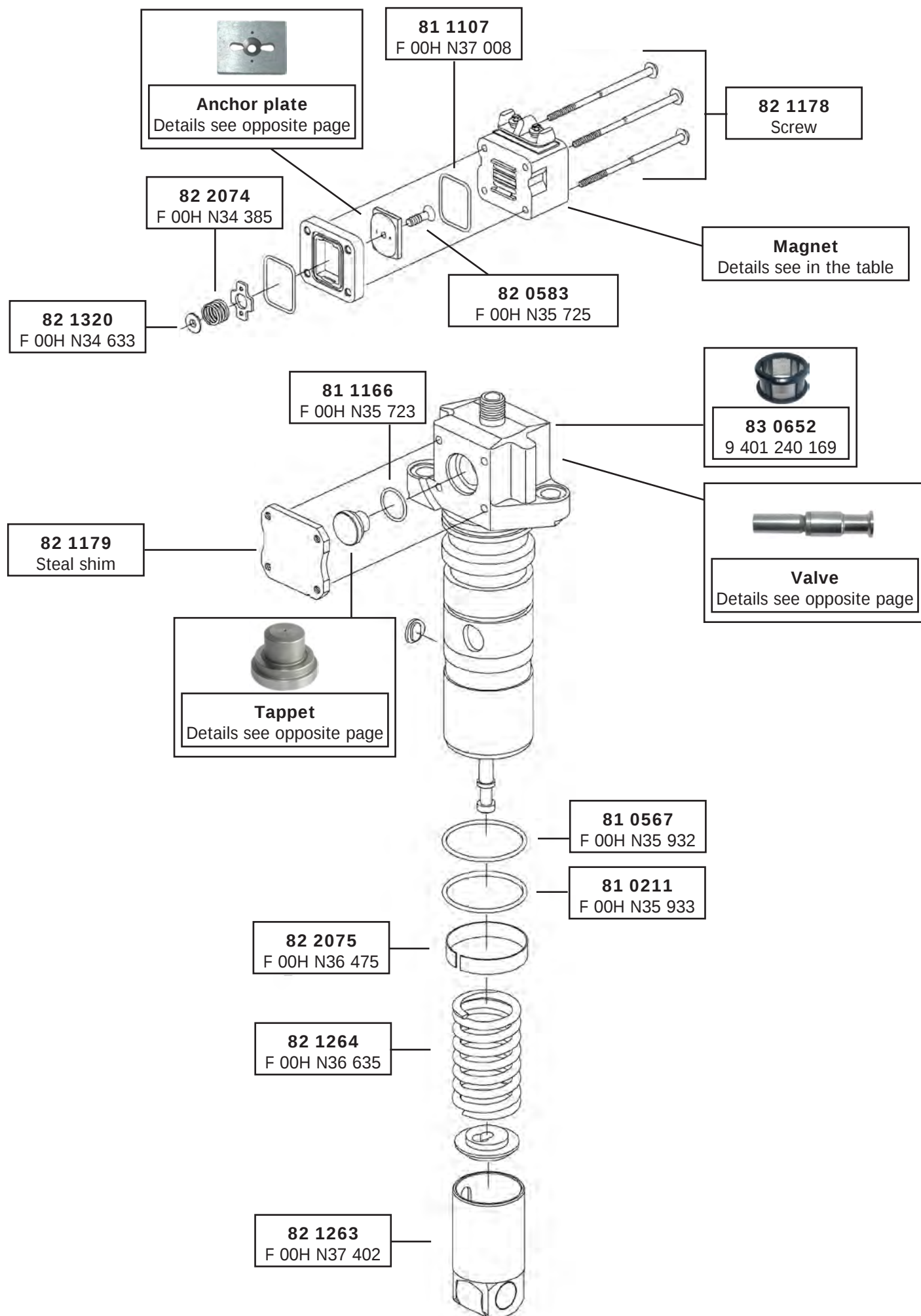
Part numbers of other manufacturers are only mentioned for comparison purposes.

Unit Pump System (UPS)

Pumpe Leitung Düse (PLD)



Bosch Unit Pump System



Bosch Unit Pump System

Valves

FLAG	Dimension
------	-----------

82 1970	6.995 MM
82 1971	7.000 MM
82 1972	7.005 MM
82 1973	7.010 MM
82 1974	7.015 MM
82 1975	7.020 MM
82 1976	7.025 MM
82 1977	7.030 MM
82 1978	7.035 MM
82 1979	7.040 MM
82 2167	7.045 MM
82 2081	7.050 MM
82 2168	7.055 MM
82 2169	7.060 MM
82 2171	7.065 MM
82 2172	7.070 MM
82 2173	7.075 MM
82 2175	7.080 MM



Tappets

FLAG	Dimension
------	-----------

82 2004	16.58 MM
82 2005	16.60 MM
82 2006	16.62 MM
82 2008	16.67 MM
82 2009	16.70 MM
82 2010	16.73 MM
82 2012	16.76 MM



Anchor plates

FLAG	Dimension
------	-----------

82 2031	3.95 MM
82 1960	3.96 MM
82 2032	3.97 MM
82 2033	3.99 MM

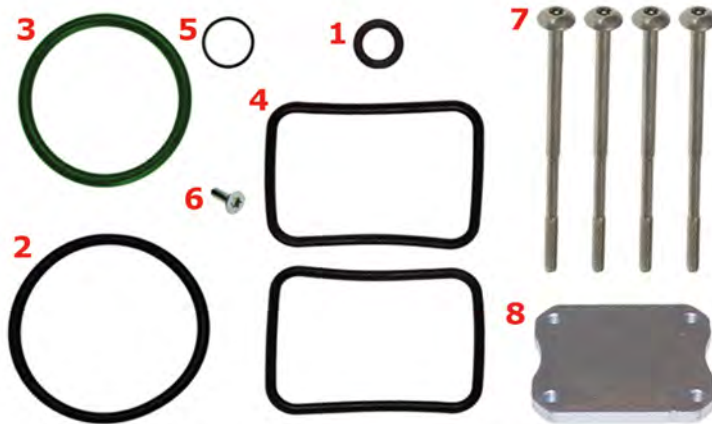
Bosch Unit Pump System

Unit Pump		Magnet					
							
FLAG	Reference	FLAG	Reference		OEM No.	Application	Motor
20 5003	0 414 755 003	12 0433	F 00H N37 433	MACK Trucks MACK Trucks RVI	313 GC 5227 M 313 GC 5222 M 50 10 284 908	REN Magnum	MIDR
20 5005	0 414 755 005	12 0434	F 00H N37 434	DAF	1379110 1392052 1392052	75CF 85CF 95XF	PE XE
20 5006	0 414 755 006	12 0653	F 00H N37 653	MACK Trucks RVI	313 GC 5230 MX 50 01 860 116	E7	
20 5007	0 414 755 007	12 0653	F 00H N37 653	MACK Trucks RVI	313 GC 5230 MX 50 01 860 116	E7 Magnum	MACK E.Tech A B
20 5008	0 414 755 008	12 0434	F 00H N37 434	DAF	1435558	75CF 85CF 95XF	PE XE
20 9005	0 414 799 005	12 0431	F 00H N37 431	Mercedes Benz		Actros SKN MP2/3	OM 541 OM 457 OM 542
20 9008	0 414 799 008	12 0431	F 00H N37 431	Mercedes Benz		Atego LK LKN Freightliner	OM 902 OM 904 OM 906
20 9015	0 414 799 015	12 0431	F 00H N37 431	Mercedes Benz	028 074 8902	Axor Actros SKN MP2 MP3	OM 541 OM 542 OM 457
20 9017	0 414 799 017	12 0431	F 00H N37 431	Mercedes Benz	028 074 9102	Actros SKN MP2/3 Axor Atron Zetros	OM 924 OM 925 OM 926
20 9021	0 414 799 021	12 0431	F 00H N37 431	Mercedes Benz	028 074 9402	Actros MP3 Axor Integro	OM 541 OM 457
20 9024	0 414 799 024	12 0431	F 00H N37 431	Mercedes Benz	028 074 8802	Axor Actros MP3 Tourismo Travegeo	OM 460 USA OM 541 OM 457

Bosch Unit Pump System

Ref. Bosch F 00H N37 070 MB 012 074 01 01

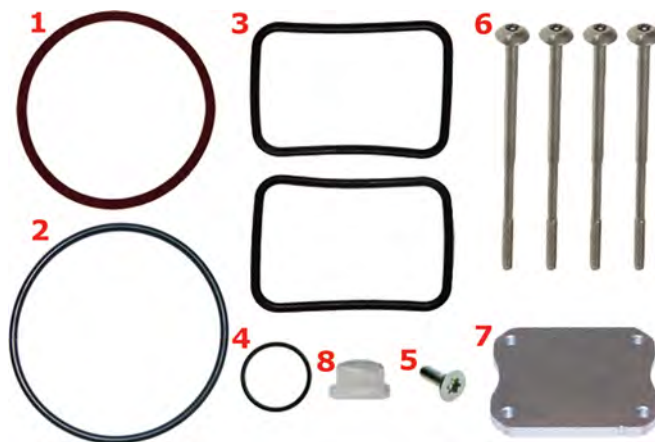
FLAG 80 1107



- 1. 81 0196
- 2. 81 0289
- 3. 81 0819
- 4. 81 1107
- 5. 81 1166
- 6. 82 0583
- 7. 82 1178
- 8. 82 1179

Ref. Bosch F 00H N37 069 MB 012 074 00 01

FLAG 80 1108



- 1. 81 0211
- 2. 81 0567
- 3. 81 1107
- 4. 81 1166
- 5. 82 0583
- 6. 82 1178
- 7. 82 1179
- 8. 83 0008

Ref. Bosch F 00H N37 759 REN 56 00 679 460

FLAG 80 1229



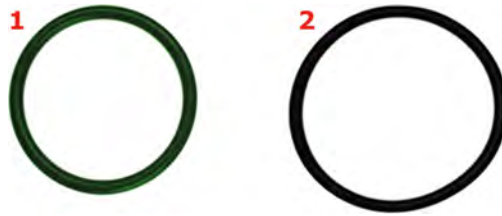
- 1. 81 0355
- 2. 81 0567
- 3. 81 1107
- 4. 81 1166
- 5. 82 0583
- 6. 82 1178
- 7. 82 1179
- 8. 82 1372

Bosch Unit Pump System

Ref. Bosch F 00H N37 454 MB 012 074 01 01

FLAG 80 1106

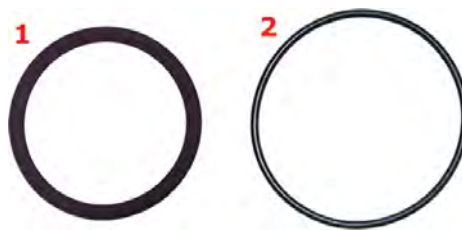
1. 81 0819
2. 81 0289



Ref. Bosch F 000 41P 049 MACK Trucks 313 GC 5222 M REN 50 10 284 908

FLAG 80 1340

1. 81 0355
2. 81 0567



Ref. Bosch F 00V X99 892 DAF 1378110 1392052

FLAG 80 1299

1. 81 0355
2. 81 0567
3. 81 0211



Bosch Unit Pump System

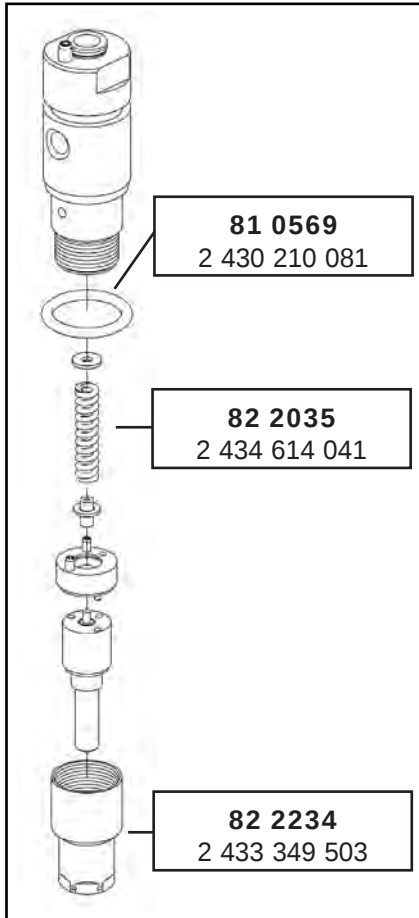
	FLAG	Reference	Application	OEM No.
	97 2036	0 440 020 036	MACK Trucks	332 GC 45 322 GC 45 322 GC 49A
	97 2601	457 091 0601	Mercedes Benz Actros Freightliner	457 091 0601 457 091 0401
	82 1488	HK11K01	Hengst Mercedes Benz	HK11K01 000 090 7350
	82 1639	HK11K	Hengst Mercedes Benz	HK11K 000 090 6050

Repairkit for Hengst Handprimer Reference E11S03D29				FLAG 80 1211
	80 1211	000 090 0751 000 092 4105 000 092 3303	Mercedes Benz	1. 81 0453 2. 83 0219 3. 83 0220

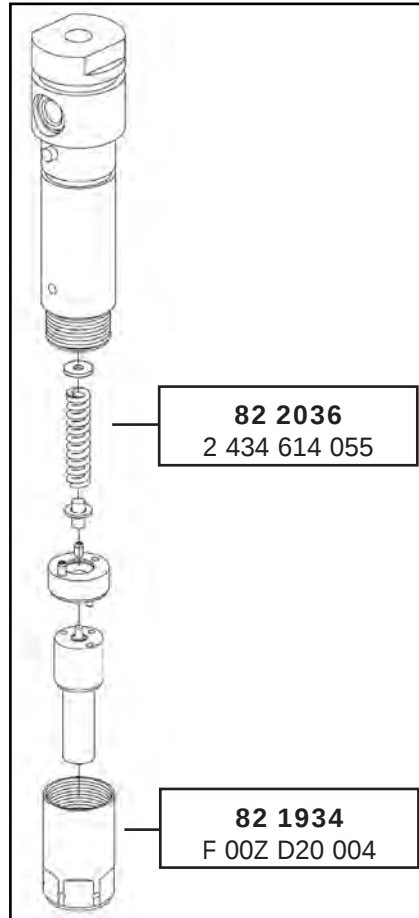
Repairkit for Hengst Handprimer Reference E11S03D65				FLAG 80 1212
	80 1212	51.12503.0062 51.12503.0047 000 090 2051 50 01 852 912	MAN MAN Mercedes Benz Renault	1. 81 0453 2. 83 0220

Bosch Unit Pump System Injector

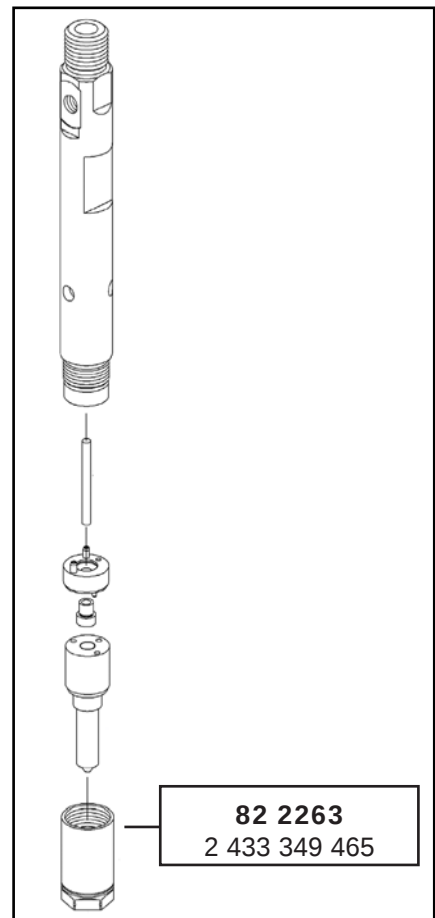
Typ 1



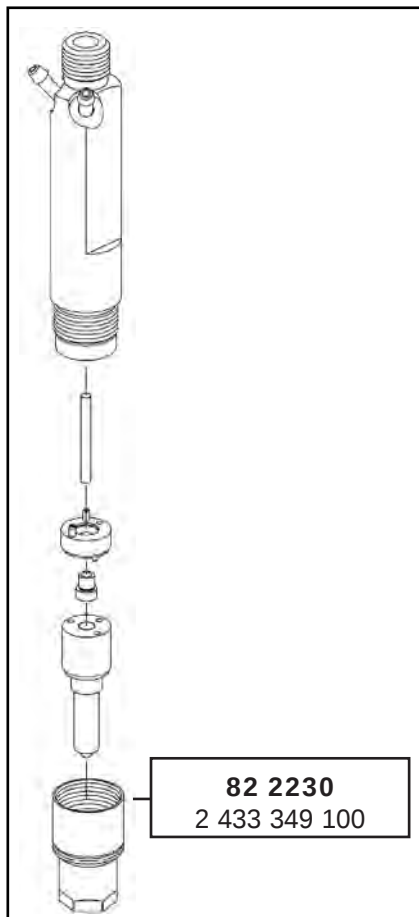
Typ 2



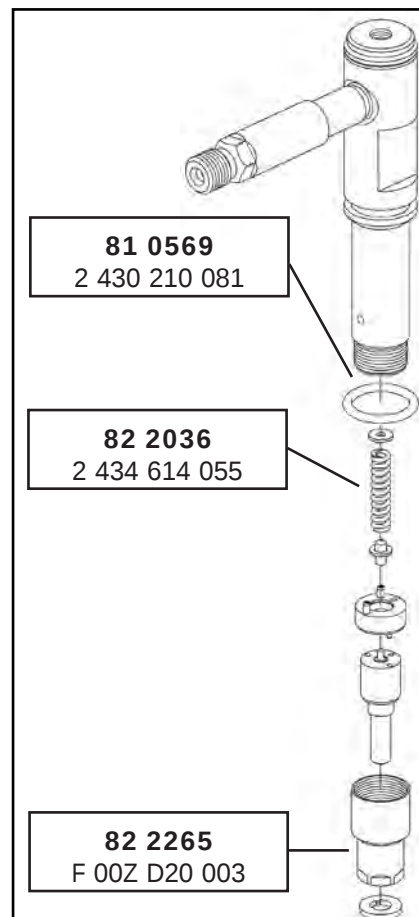
Typ 3



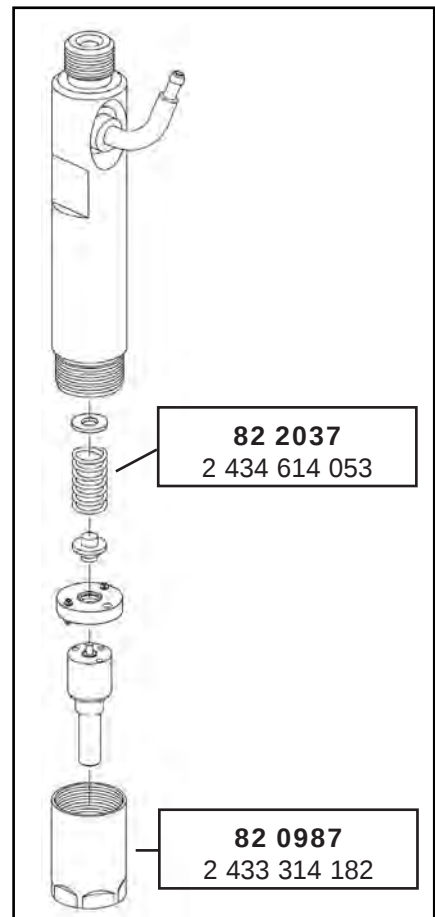
Typ 4



Typ 5



Typ 6



Bosch Unit Pump System

Injector 			Pressure spindle 		Intermediate disc 		Nozzle 		
FLAG	Reference	Typ	FLAG	Reference	FLAG	Reference	FLAG	Reference	Application / OEM No.
15 9219	0 432 191 219	1	82 2039	F 00Z B20 002	82 0602	2 430 136 221	37 1986	0 433 171 986	MB 002 010 8551
15 9253	0 432 191 253	5	82 2039	F 00Z B20 002	82 2259	F 00Z Z20 000	37 1901	0 433 171 901	DAF 1453001
15 9254	0 432 191 254	5	82 2039	F 00Z B20 002	82 2259	F 00Z Z20 000	37 1902	0 433 171 902	DAF 1642684
15 9258	0 432 191 258	1	82 2007	F 00Z B20 001	82 0602	2 430 136 221	37 1741	0 433 171 741	MB 006 017 5121 MB 002 010 5051
15 9263	0 432 191 263	1	82 2007	F 00Z B20 001	82 0602	2 430 136 221	37 1610	0 433 171 610	MB 006 017 4521 MB 005 017 5721
15 9266	0 432 191 266	1	82 2007	F 00Z B20 001	82 0602	2 430 136 221	37 1450	0 433 171 450	MB 006 017 4821
15 9267	0 432 191 267	1	82 2007	F 00Z B20 001	82 0602	2 430 136 221	37 1634	0 433 171 634	MB 006 017 4921
15 9278	0 432 191 278	1	82 2039	F 00Z B20 002	82 0602	2 430 136 221	37 1688	0 433 171 688	MB 006 017 2221
15 9301	0 432 191 301	1	82 2039	F 00Z B20 002	82 0602	2 430 136 221	37 1680	0 433 171 680	MB 005 017 8321
15 9303	0 432 191 303	1	82 2039	F 00Z B20 002	82 0602	2 430 136 221	37 1797	0 433 171 797	MB 005 017 8521
15 9348	0 432 191 348	1	82 2074	2 433 124 393	82 0602	2 430 136 221	37 1740	0 433 171 740	MB 005 017 4521
15 9359	0 432 191 359	1	82 2074	2 433 124 393	82 0602	2 430 136 221	37 1634	0 433 171 634	MB 005 017 4121
15 9368	0 432 191 368	6	82 2073	2 433 124 448	82 0991	2 430 134 023	37 1625	0 433 171 625	KHD 211 2632
15 9372	0 432 191 372	1	82 2074	2 433 124 393	82 0602	2 430 136 221	37 1610	0 433 171 610	MB 005 017 5721
15 9384	0 432 191 384	1	82 2074	2 433 124 393	82 0602	2 430 136 221	37 1628	0 433 171 628	MB 005 017 5321
15 9400	0 432 191 400	1	82 2074	2 433 124 393	82 0602	2 430 136 221	37 1676	0 433 171 676	MB 005 017 2221
15 9437	0 432 191 437	1	82 2074	2 433 124 393	82 0602	2 430 136 221	37 1634	0 433 171 634	MB 005 017 1421
15 9459	0 432 191 459	1	82 2007	F 00Z B20 001	82 0602	2 430 136 221	37 1607	0 433 171 607	MB 004 017 9821
15 9470	0 432 191 470	5	82 2039	F 00Z B20 002	82 0602	2 430 136 221	37 1593	0 433 171 593	DAF
15 9589	0 432 191 589	1	82 2074	2 433 124 393	82 0602	2 430 136 221	37 1450	0 433 171 450	MB 004 017 3721
15 9582	0 432 191 582	6	82 2073	2 433 124 448	82 0991	2 430 134 023	37 1478	0 433 171 478	KHD 04231554
15 9595	0 432 191 595	6	82 1513	2 433 124 446	82 0991	2 430 134 023	37 1444	0 433 171 444	CUM 3 930 525
15 9421	0 432 193 421	1	82 2039	F 00Z B20 002	82 2120	F 00Z Z20 003	37 5489	0 433 175 489	MB 003 010 0451
15 9436	0 432 193 436	1	82 2039	F 00Z B20 002	82 2120	F 00Z Z20 003	37 5485	0 433 175 485	MB 006 017 8421
15 9449	0 432 193 449	1	82 2007	F 00Z B20 001	82 2120	F 00Z Z20 003	37 5473	0 433 175 473	MB 002 010 9251
15 9454	0 432 193 454	1	82 2007	F 00Z B20 001	82 2120 82 0602	F 00Z Z20 003 2 430 136 221	37 5473	0 433 175 473	MB 006 017 7421
15 9459	0 432 193 459	1	82 2007	F 00Z B20 001	82 2120	F 00Z Z20 003	37 5462	0 433 175 462	MB 006 017 6821
15 9480	0 432 193 480	1	82 2039	F 00Z B20 002	82 0602	2 430 136 221	37 5416	0 433 175 416	MB 006 017 1421
15 9528	0 432 193 528	2	82 2072	2 433 124 377	82 0602	2 430 136 221	37 5329	0 433 175 329	MACK 736 GB 94B M 3 REN 50 10 284 955
15 9534	0 432 193 534	2	82 2072	2 433 124 377	82 0602	2 430 136 221	37 5321	0 433 175 321	REN 50 10 437 223 MB 002 010 8451
15 9582	0 432 193 582	3	82 2073	2 433 124 448	82 0991	2 430 134 023	37 1478	0 433 171 478	KHD 04231554
15 9595	0 432 193 595	4	82 1513	2 433 124 446	82 0991	2 430 134 023	37 1444	0 433 171 444	CUM 3 930 525
15 9630	0 432 193 630	1	82 2039	F 00Z B20 002	82 2120 82 0602	F 00Z Z20 003 2 430 136 221	37 5212	0 433 175 212	CUM 3 944 829
15 9635	0 432 193 635	1	82 2039	F 00Z B20 002	82 2120 82 0602	F 00Z Z20 003 2 430 136 221	37 5210	0 433 175 210	CUM 3 944 183
15 9645	0 432 193 645	1	82 2039	F 00Z B20 002	82 2120 82 0602	F 00Z Z20 003 2 430 136 221	37 5202	0 433 175 202	CUM 3 944 200
15 9864	0 432 193 864	2	82 1513	2 433 124 446	82 2259	F 00Z Z20 000	37 5035	0 433 175 035	MACK 736 GB 343 P 3

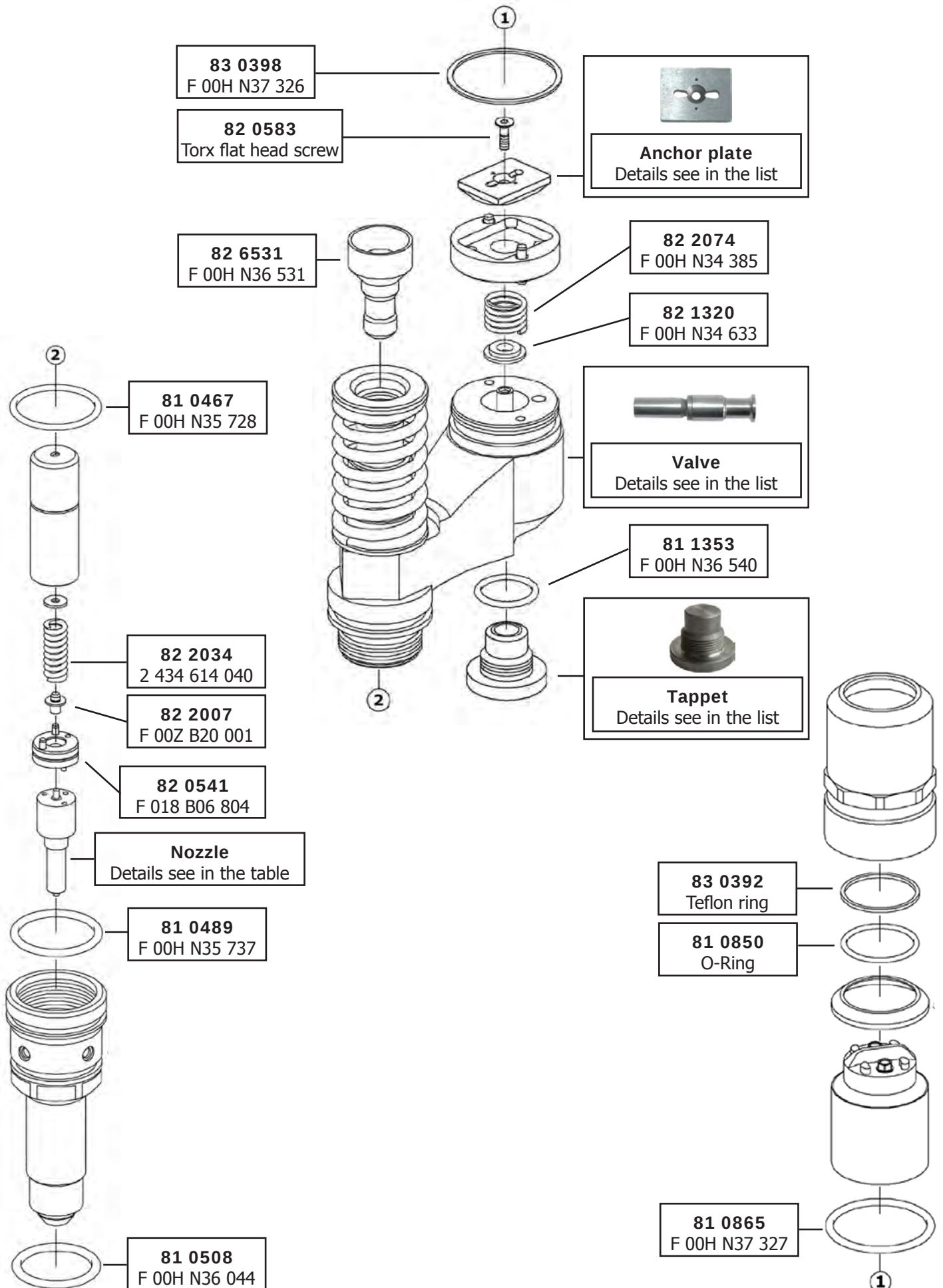
Unit Injector System (UIS)

Pumpe Düse Einheit (PDE)



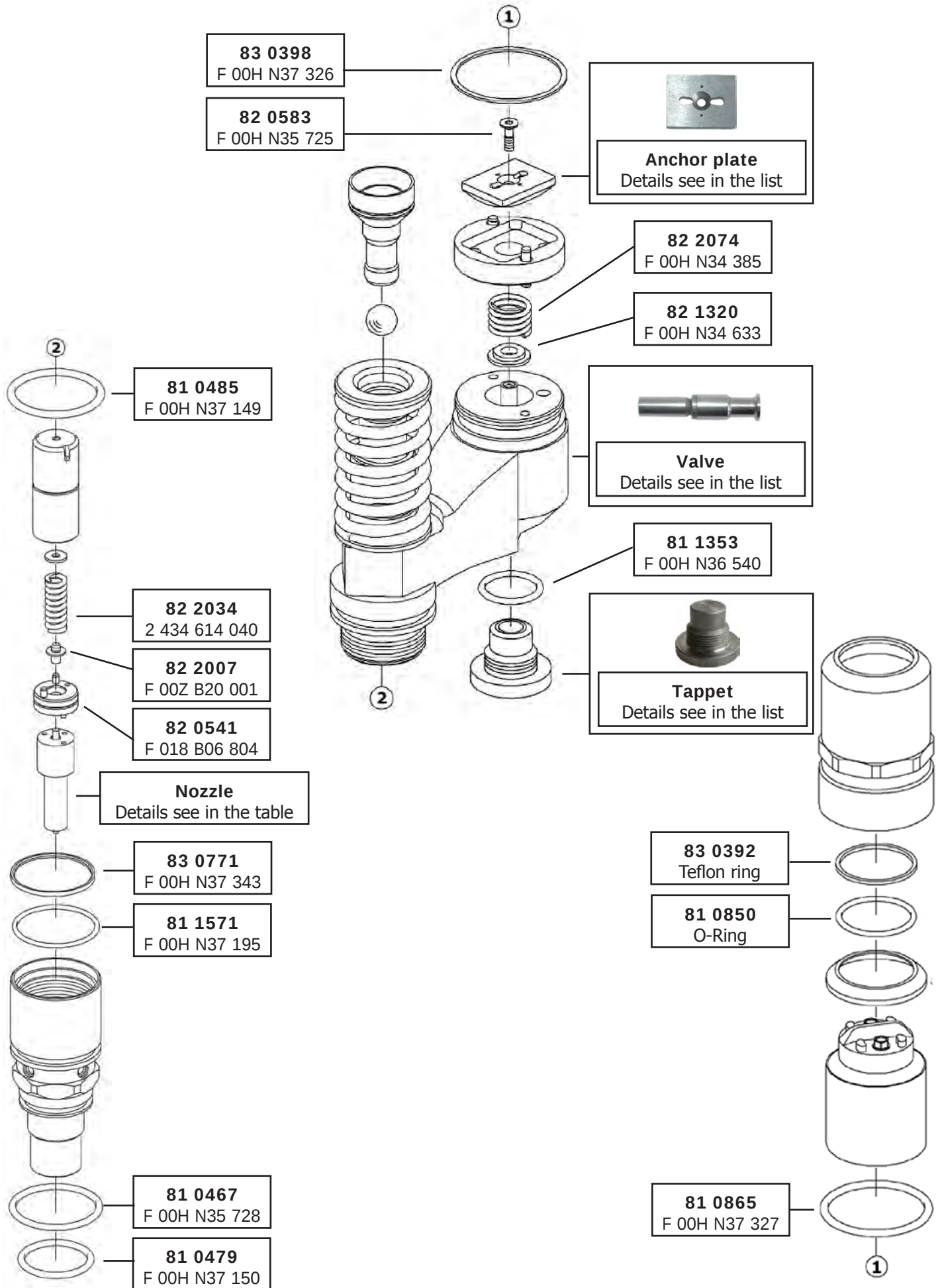
Bosch Unit Injector System

Unit Injector (UIS/PDE) Typ 1



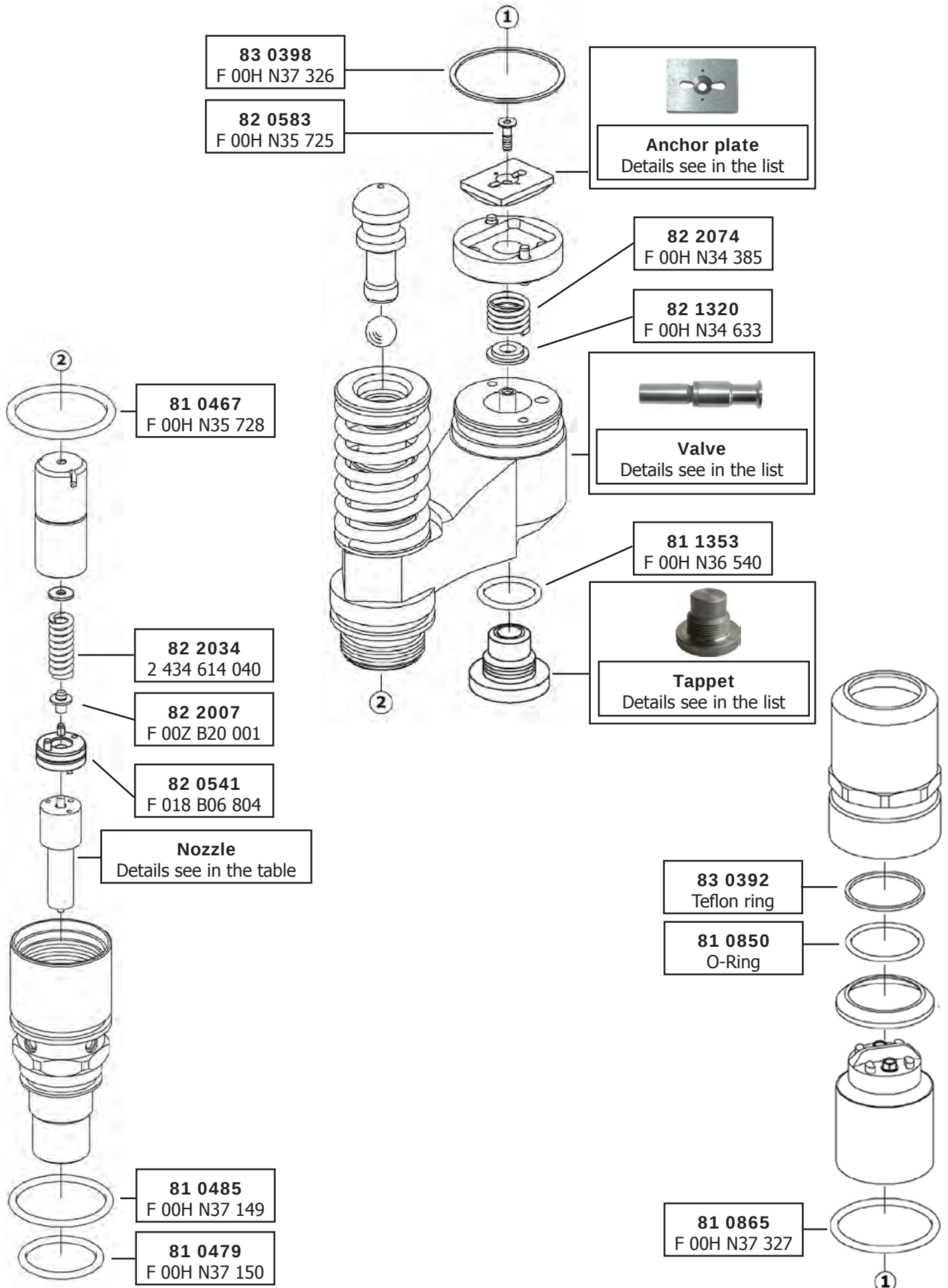
Bosch Unit Injector System

Unit Injector (UIS/PDE) Typ 2



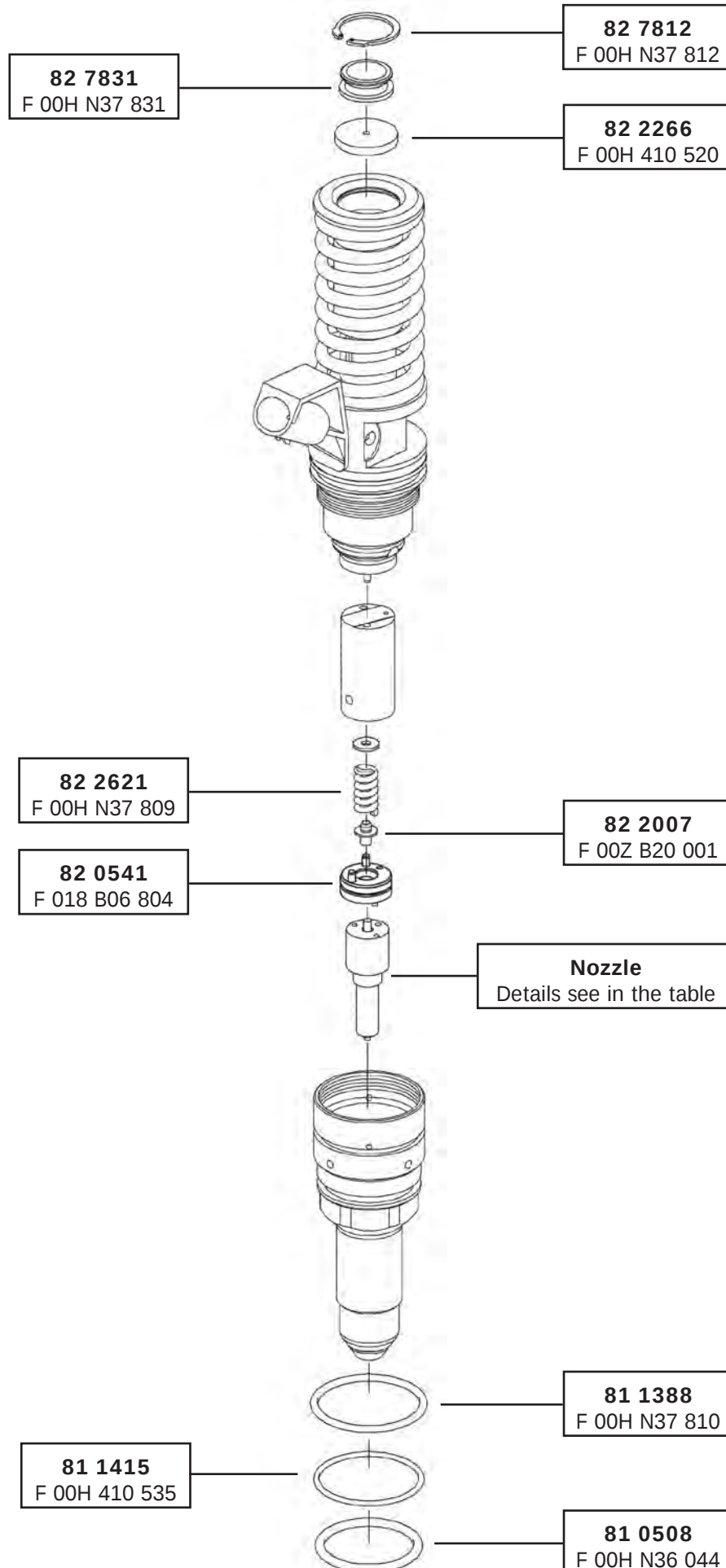
Bosch Unit Injector System

Unit Injector (UIS/PDE) Typ 3



Bosch Unit Injector System

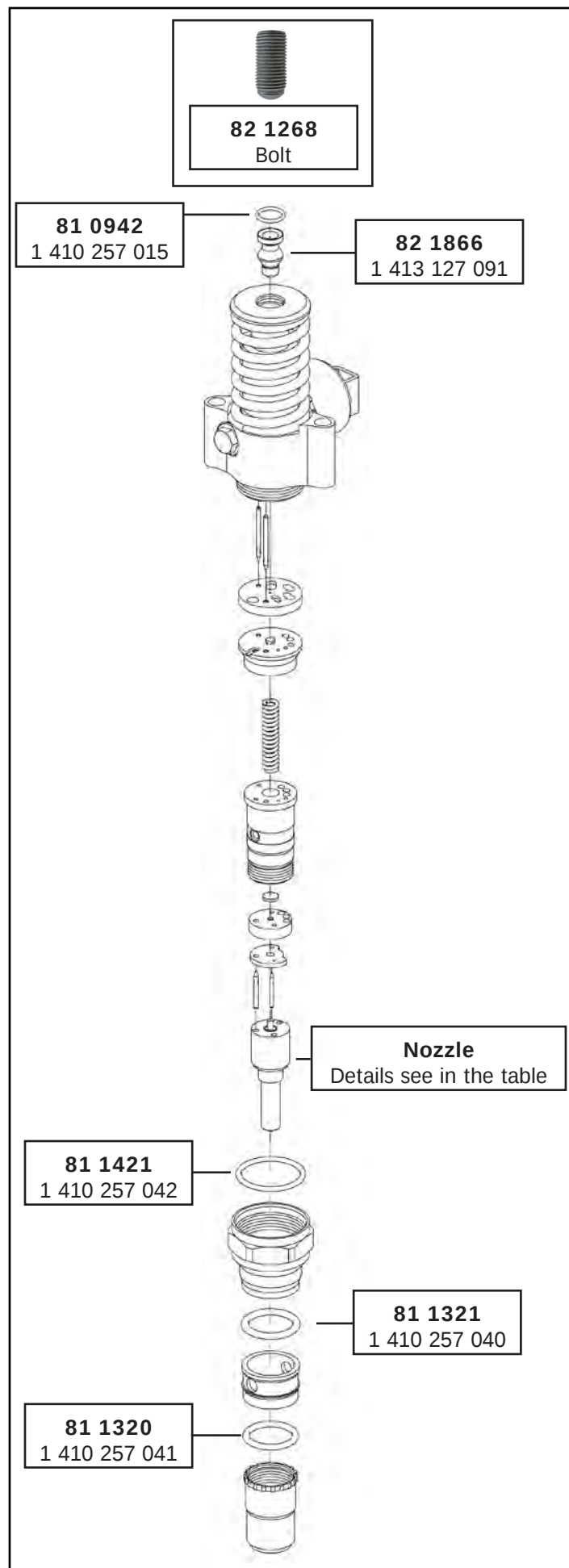
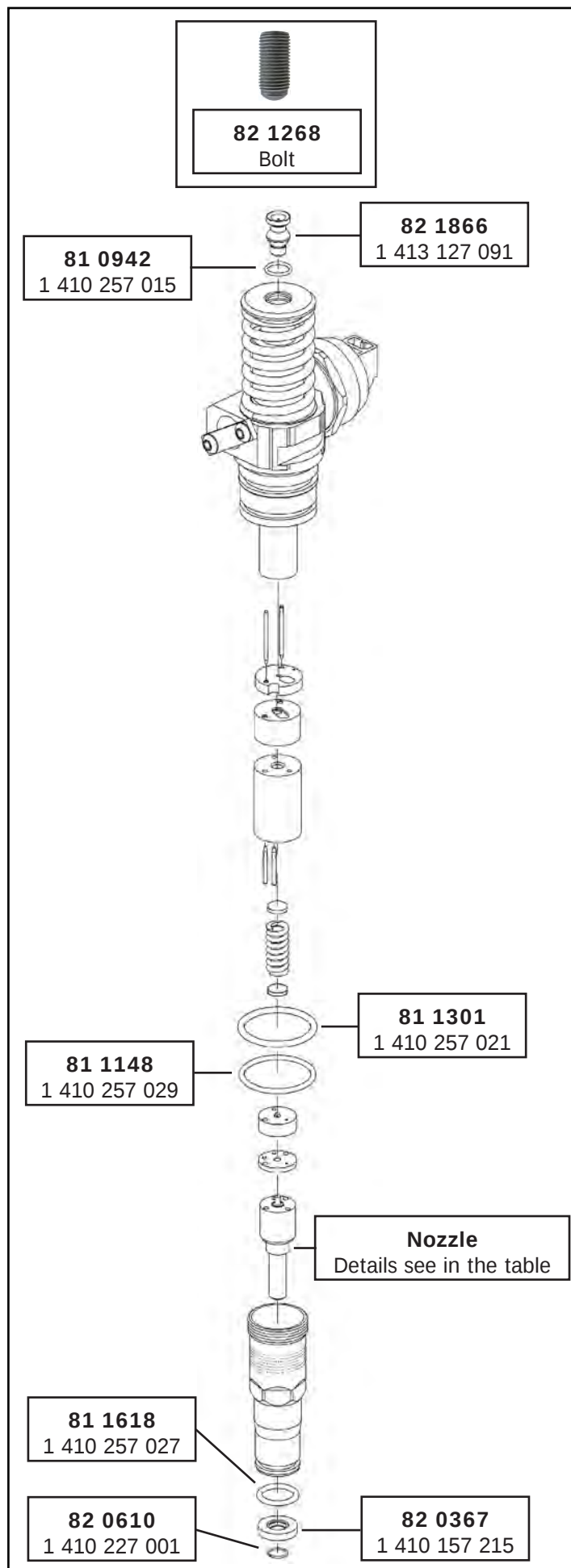
Unit Injector (UIS/PDE) Typ 4



Bosch Unit Injector System

Unit Injector (UIS/PDE) Typ 5

Unit Injector (UIS/PDE) Typ 6



Bosch Unit Injector System

Tappets	
FLAG	Dimension
82 2130	14.60 MM
82 2131	14.61 MM
82 2132	14.62 MM
82 2133	14.63 MM
82 2134	14.64 MM
82 2135	14.65 MM
82 2136	14.66 MM
82 2137	14.67 MM
82 2138	14.68 MM
82 2139	14.69 MM
82 2140	14.70 MM
82 2141	14.71 MM
82 2142	14.72 MM
82 2143	14.73 MM
82 2015	14.74 MM
82 2144	14.75 MM
82 2145	14.76 MM
82 2146	14.77 MM
82 2016	14.78 MM
82 2147	114.79 MM
82 2148	14.80 MM



Valves	
FLAG	Dimension
82 2176	6.995 MM
82 2177	7.000 MM
82 2178	7.005 MM
82 2121	7.010 MM
82 2179	7.015 MM
82 2180	7.020 MM
82 2181	7.025 MM
82 2182	7.030 MM
82 2183	7.035 MM
82 2184	7.040 MM
82 2185	7.045 MM
82 2186	7.050 MM
82 2187	7.055 MM
82 2188	7.060 MM
82 2189	7.065 MM
82 2190	7.070 MM
82 2191	7.075 MM
82 2192	7.080 MM



Anchor plates	
FLAG	Dimension
82 2031	3.95 MM
82 1960	3.96 MM
82 2032	3.97 MM
82 2033	3.99 MM

Bosch Unit Injector System

Unit Injector			Nozzle					
								
FLAG	Reference	Typ	FLAG	Reference		OEM No.	Application	Motor
20 0002	0 414 700 002	1	37 1439	0 433 171 439	Iveco	99445057	Trakker Stralis Euro Trakker	F2BE068*
20 0003	0 414 700 003	1	37 1596	0 433 171 596	Iveco	500380884	Trakker Stralis Euro Trakker	F2BE068*
20 0004	0 414 700 004	1	37 1596	0 433 171 596	Iveco	500367520		
20 0005	0 414 700 005	1	37 1564	0 433 171 564	Iveco	50402200		
20 0006	0 414 700 006	1	37 1564	0 433 171 564	Iveco	504100287	Stralis Trakker	F2BE368*
20 1004	0 414 701 004	1	37 1433	0 433 171 433	Volvo	1677158	FH12	D12
20 1005	0 414 701 005	2	37 1470	0 433 171 470	Scania	1382121 148335 1424462		
20 1006	0 414 701 006	1	37 1564	0 433 171 564	Iveco	5003390559 500304921	Euro Star Stralis Euro Tech	F3AE068*
20 1007	0 414 701 007	2	37 1575	0 433 171 575	Scania	1420379 1455860		
20 1008	0 414 701 008	2	37 1576	0 433 171 576	Scania	1409193 1455861		
20 1016	0 414 701 016	2	37 1598	0 433 171 598	Scania	1421380 1455862 1529752 1497387		DC11.06
20 1017	0 414 701 017	3	37 1470	0 433 171 470	Scania	1440577		DSC12.05 DC11.01.2
20 1018	0 414 701 018	3	37 1598	0 433 171 598	Scania	1440578		DC11.06
20 1019	0 414 701 019	3	37 1576	0 433 171 576	Scania	1440579		
20 1020	0 414 701 020	3	37 1575	0 433 171 575	Scania	1440580		DC12.01 DC16
20 1032	0 414 701 032	3	37 1786	0 433 171 786	Scania	1505199		DI12 M DC16 DI16
20 1035	0 414 701 035	3	37 1799	0 433 171 799	Scania	1487472		DC16 DI16
20 1043	0 414 701 043	3	37 1970	0 433 171 970	Scania			DI19 DI12
20 1044	0 414 701 044	3	37 1575	0 433 171 575	Scania			DC12
20 1045	0 414 701 045	3	37 1575	0 433 171 575	Scania			DC11
20 1050	0 414 701 050	3	37 7231	0 433 172 231	Scania / Opel			
20 1057	0 414 701 057	2	37 1576	0 433 171 576				
20 2002	0 414 702 002	1	37 1584	0 433 171 584	Volvo / DTC			D12A
20 2009	0 414 702 009	1	37 1646	0 433 171 646	Volvo			
20 2010	0 414 702 010	1	37 1584	0 433 171 584	Volvo		FH12 FM12	D12
20 2014	0 414 702 014	1	37 1646	0 433 171 646	Volvo		FH12 FM12	D12
20 2017	0 414 702 017	1	37 1584	0 433 171 584	Volvo			
20 2021	0 414 702 021	1	37 1584	0 433 171 584	Volvo			
20 3004	0 414 703 004	4	37 1937	0 433 171 937	Iveco		Trakker Stralis	F3BE368*
20 3008	0 414 703 008	4	37 1946	0 433 171 946	Iveco		Stralis	F3AE368
20 3010	0 414 703 010	4	37 1987	0 433 171 987	Iveco			
20 3013	0 414 703 013	4	37 2035	0 433 172 035	Iveco			
20 7215	0 414 720 265	5	37 5367	0 433 175 367	Volkswagen	038 130 073 AG	Audi A2 Audi A3 Golf V Golf IV Jetta Bora Multivan Passat Touran	BHC BKC BXE AXR
20 7404	0 414 720 454	6	37 5379	0 433 175 379	Volkswagen	03G 130 073 G 03G 130 073 GX	Mitsubishi Audi A4 Audi A6 Golf V Touran	

Bosch Unit Injector System

Ref. Bosch 1 417 010 996

FLAG 80 1371



1. 81 0942
2. 81 1320
3. 81 1321
4. 82 1866

Ref. Bosch 1 417 010 997 A

FLAG 80 1121



1. 81 1301
2. 81 0942
3. 81 1148
4. 81 1618
5. 82 0367
6. 82 0610
7. 82 1866

Ref. Bosch 1 417 010 997 B

FLAG 80 1223



1. 81 1301
2. 81 0942
3. 81 1148
4. 81 1618
5. 82 0367
6. 82 0610

Ref. Bosch 1 417 010 997 C

FLAG 80 1376



1. 81 1301
2. 81 0942
3. 81 1148
4. 81 1618
5. 82 0367
6. 82 0610
7. 82 1866
8. 82 1268

Bosch Unit Injector System

Ref. Bosch 1 417 010 997 D

FLAG 80 1183



- 1. 81 0647
- 2. 81 0942
- 3. 81 1301
- 4. 81 1618
- 5. 82 0367
- 6. 82 0610
- 7. 82 1866

Ref. Bosch 1 417 010 997 S

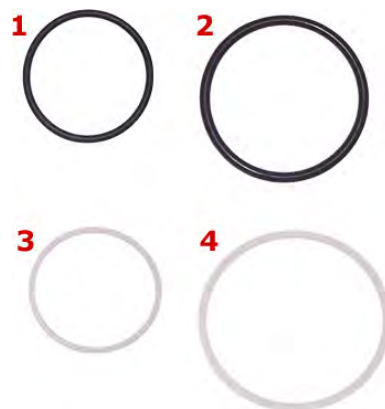
FLAG 80 1523



- 1. 81 0647
- 2. 81 0942
- 3. 81 1301
- 4. 81 1618
- 5. 82 0367
- 6. 82 0610
- 7. 82 1866

Ref. Bosch F 00H 410 850

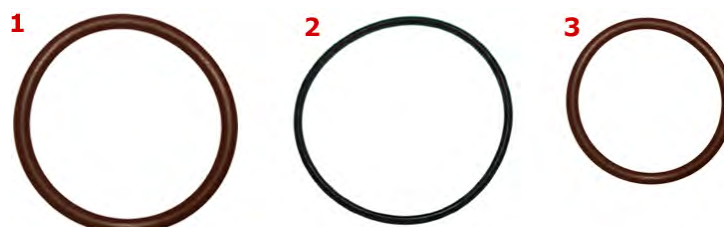
FLAG 80 1430



- 1. 81 0850
- 2. 81 0865
- 3. 83 0392
- 4. 83 0398

Ref. Bosch F 00H 4S0 001

FLAG 80 1403



- 1. 81 1388
- 2. 81 1415
- 3. 81 0508

Bosch Unit Injector System

Ref. Bosch F 00H 4S0 012

FLAG 80 1436

1. 82 7812
2. 82 7831
3. 82 2266



Ref. Bosch F 00H N37 928

FLAG 80 1147

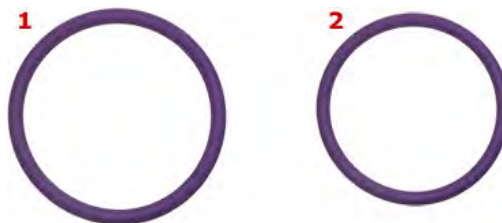
1. 81 0850
2. 81 0865
3. 81 1252
4. 82 0583
5. 83 0392
6. 83 0398



Ref. Bosch F 00V X99 992

FLAG 80 1342

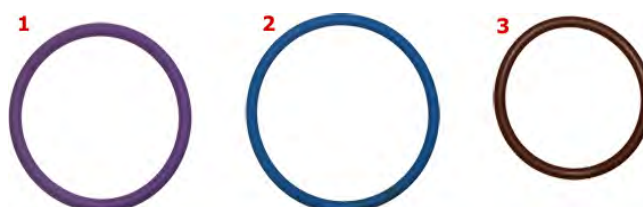
1. 81 0467
2. 81 0505



Ref. Bosch F 00V X99 995

FLAG 80 1136

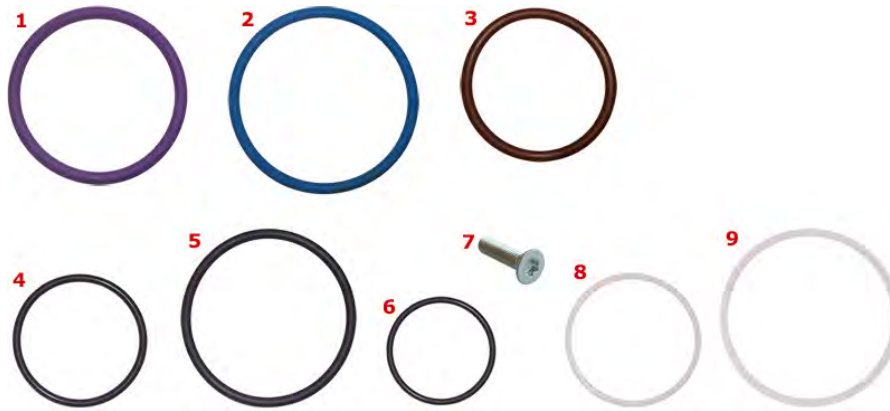
1. 81 0467
2. 81 0489
3. 81 0508



Bosch Unit Injector System

Ref. Bosch F 00V X99 995 + F 00H N37 928

FLAG 80 1292



- 1. 81 0467
- 2. 81 0489
- 3. 81 0508
- 4. 81 0850
- 5. 81 0865
- 6. 81 1252
- 7. 82 0583
- 8. 83 0392
- 9. 83 0398

Ref. Bosch F 00V X99 996

FLAG 80 1137



- 1. 81 0486
- 2. 81 0508
- 3. 81 0509

Ref. Bosch F 00V X99 996 + F 00H N37 928

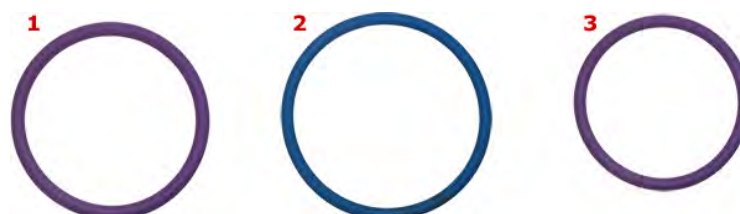
FLAG 80 1293



- 1. 81 0486
- 2. 81 0508
- 3. 81 0509
- 4. 81 0850
- 5. 81 0865
- 6. 81 1252
- 7. 82 0583
- 8. 83 0392
- 9. 83 0398

Ref. Bosch F 00V X99 998

FLAG 80 1127



- 1. 81 0467
- 2. 81 0489
- 3. 81 0505

Bosch Unit Injector System

Ref. Bosch F 00V X99 998 + F 00H N37 928

FLAG 80 1291



- 1. 81 0467
- 2. 81 0489
- 3. 81 0505
- 4. 81 0850
- 5. 81 0865
- 6. 81 1252
- 7. 82 0583
- 8. 83 0392
- 9. 83 0398

Ref. Bosch F 00V X99 999

FLAG 80 1129



- 1. 81 0467
- 2. 81 0479
- 3. 81 0485

Ref. Bosch F 00V X99 999 + F 00H N37 928

FLAG 80 1290



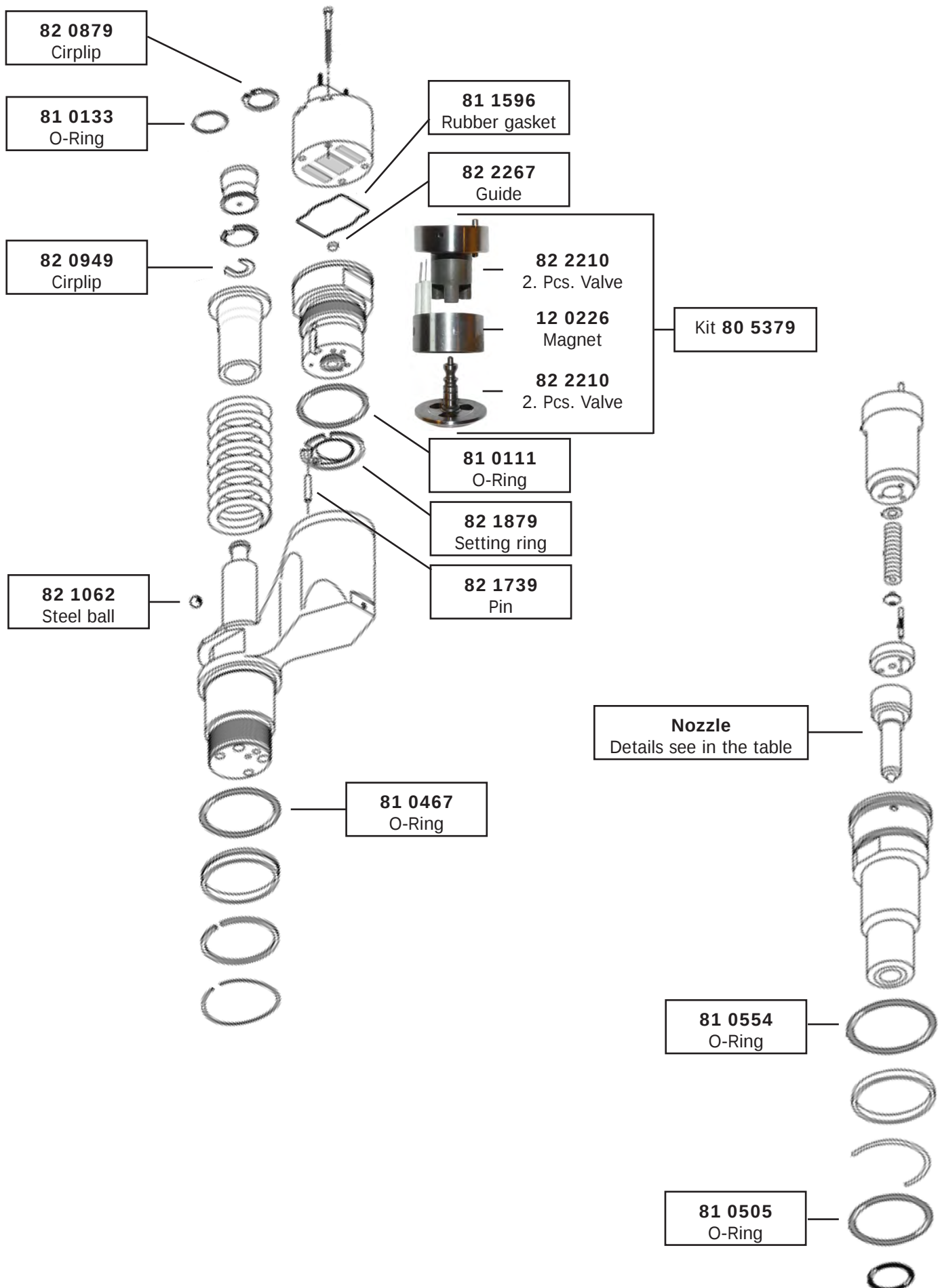
- 1. 81 0467
- 2. 81 0489
- 3. 81 0508
- 4. 81 0850
- 5. 81 0865
- 6. 81 1252
- 7. 82 0583
- 8. 83 0392
- 9. 83 0398

Bosch Unit Injector System

	FLAG	Reference	Application	OEM No.
	97 2057	0 440 020 057 0 440 020 128	Scania	1539298
	97 3001	20769469	Volvo FH12 FM 12	20440372 3092459 3165685 3964418 8148465 8148567 81483842
	97 3002	20752310	Volvo FH12 FM12 NH12	3092460 20440371

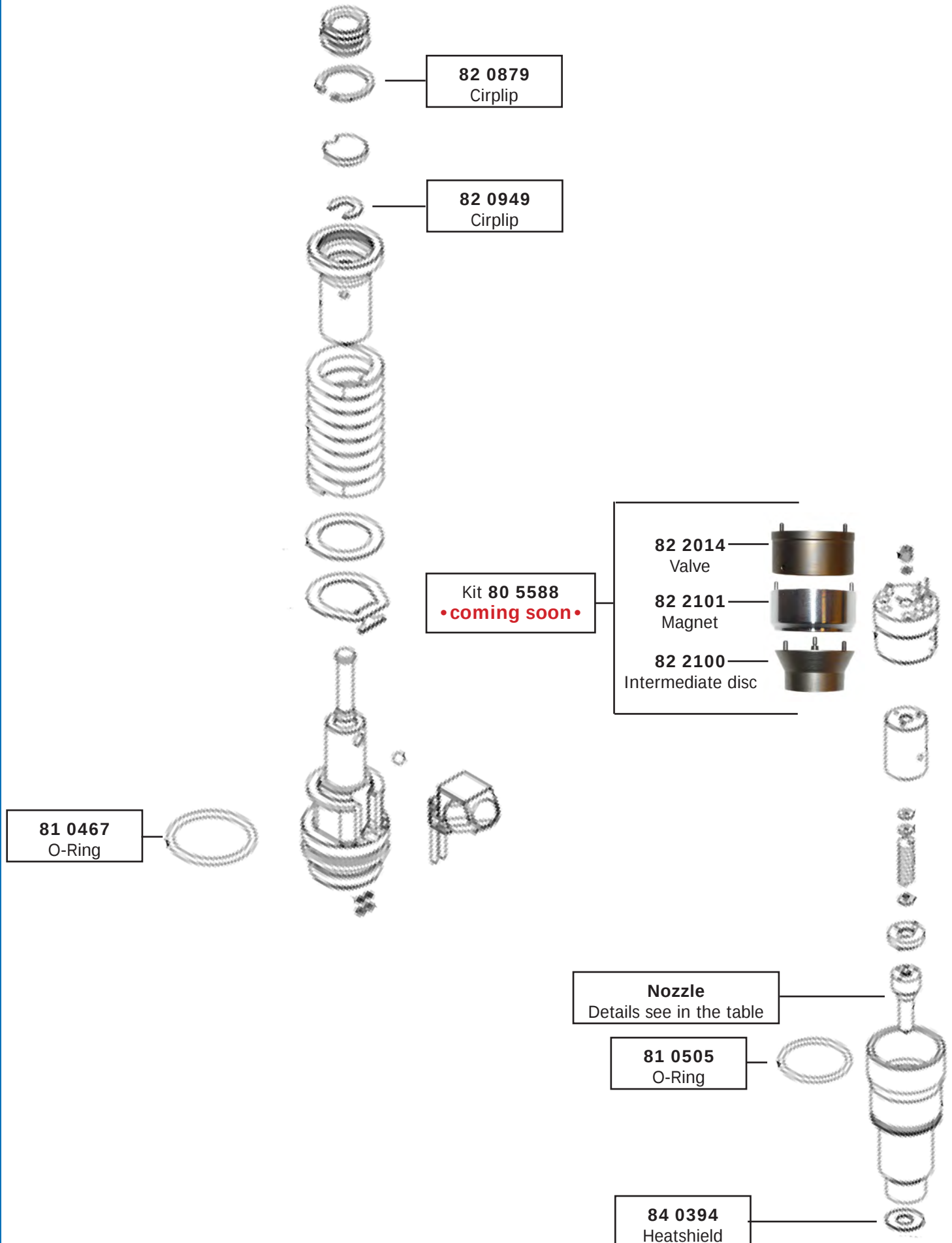
Delphi Unit Injector System

Unit Injector (UIS/PDE) Typ 1

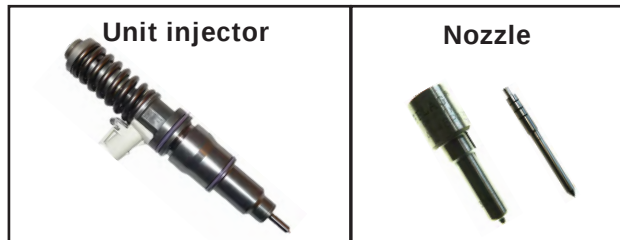


Delphi Unit Injector System

Unit Injector (UIS/PDE) Typ 2



Delphi Unit Injector System

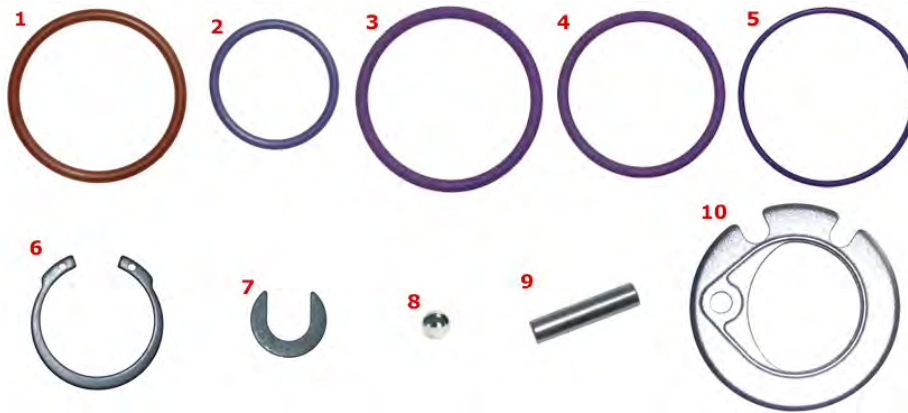


FLAG	Reference	Typ	FLAG	Reference		OEM No.	Application	Motor
20 1001	BEBE4B01001	1	39 0001	LP004B	Volvo	1677154 8112556	FH12	D12
20 1002	BEBE4B01002	1	39 0046	LP006B	Volvo	1547909 8112557	FH12	D12
20 1003	BEBE4B01003	1	39 0037	LP007B	Volvo	1547287 8112660	FH12	D12
20 1004	BEBE4B01004	1	39 0042	L012PBB	Volvo VHD	3964404 8113092	FH12 VN	D12 D12C
20 2001	BEBE4B04001	1	39 0018	L011PBB	John Deere	RE63052	6125	
20 0001	BEBE4B10001	1	39 0007	L014PBB	Volvo	3964820 8113177		
20 0002	BEBE4B10002	1	39 0045	L015PBB	Volvo	8113180 8170966		
20 0101	BEBE4B10101	1	39 0007	L014PBB	Volvo	3964820 8113177		D12
20 0102	BEBE4B10102	1	39 0045	L015PBB	Volvo	8113180 8170966		
20 4101	BEBE4C00101	1	39 0221	L221PBC	RVI Volvo	5001866295 7420430583 8113941 20430583		D12
20 1101	BEBE4C11001	1	39 0222	L222PBC	Volvo	20440388 3803654 85000071		B12 D12
20 3101	BEBE4C03101	1	39 0223	L223PBC	RVI Volvo	7420500620 20500620 85000190	FM9	D12 D9A
20 3601	BEBE4C06001	1	39 0231	L231PBC	Volvo	03587147 357147 3803655		D9
20 3001	BEBE4C13001	1	39 0221	L222PBC	Volvo	21586284 3801437		D9
20 4201	BEBE4D01201	2	39 0052	L052PBC	Volvo	20547351 85000417		
20 4001	BEBE4D24001 BEBE4D16001	2	39 0216	L216PBC	RVI Volvo MACK	7420972225 7421340611 20972225 21340611 85000986 85003263		MP8

Delphi Unit Injector System

Ref. Delphi 7135-488

FLAG 80 1488



- 1. 81 0111
- 2. 81 0133
- 3. 81 0467
- 4. 81 0505
- 5. 81 0554
- 6. 82 0879
- 7. 82 0949
- 8. 82 1062
- 9. 82 1739
- 10. 82 1879

Ref. Delphi 7135-488 B

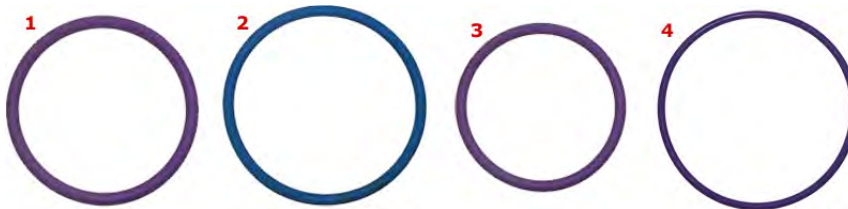
FLAG 80 1489



- 1. 81 0111
- 2. 81 0133
- 3. 81 0467
- 4. 81 0505
- 5. 81 0554

Ref. Delphi 27159-146

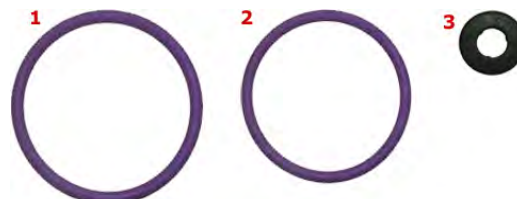
FLAG 80 1400



- 1. 81 0467
- 2. 81 0489
- 3. 81 0505
- 4. 81 0554

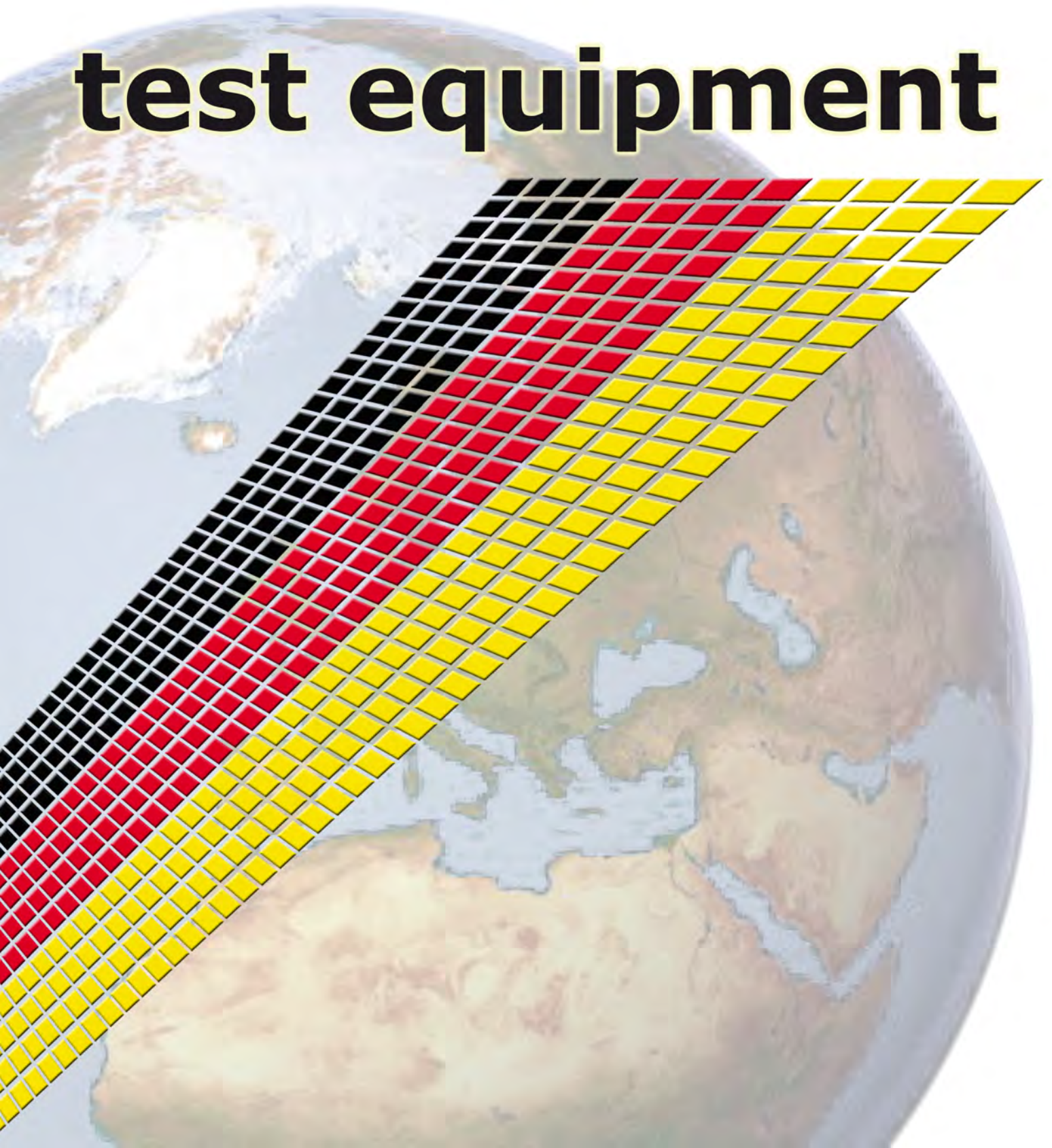
Ref. Delphi

FLAG 80 1390



- 1. 81 0467
- 2. 81 0505
- 3. 84 0394

Tools and test equipment



Tools

Injector removal tool kit uni 6 pcs in box

FLAG 16 1210



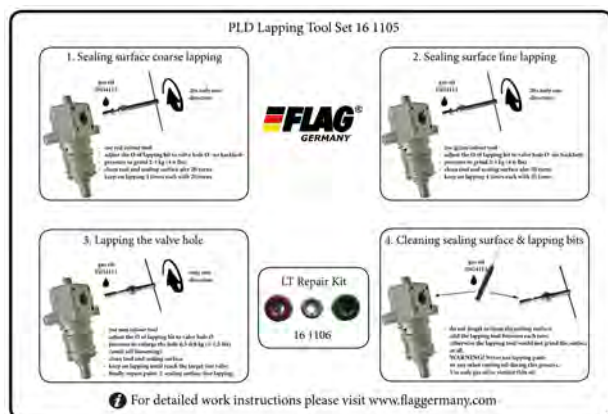
Injector cleaning and milling tool in box

FLAG 16 1220



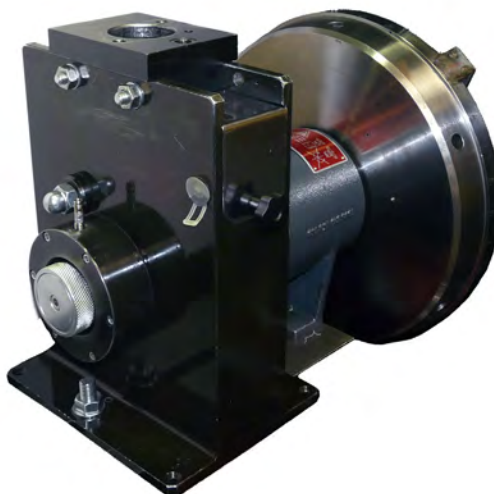
Lapping tool set for Bosch Unit Injectors and Unit Pumps

FLAG 16 1105



Repairkit 3. Pcs. for Lapping tool set FLAG 16 1106





Retrofit kit for testing UI and UP systems:

Full performance development, high injection pressures and a long service life are trademarks of Unit Injector and Unit Pump systems.

With the FLAG 16 1100 retrofit kit, you can round off the use of your existing in-line test bench as a universal test bench, allowing UI and UP systems to be tested.

The FLAG 16 1100 guarantees that the functional test of UI and UP systems is in accordance with manufacturer's specifications.

- It is easy to fit this test equipment on your existing test bench
- It is usable for all common test benches on the market.
- All relevant systems can be simulated via adaptations
- Quick and simple test with the compact cam-box
- Scope of delivery:
 - Injection chamber Note: required for UI test
 - cable and connector plus speed sensor, see above
 - Nozzle-and-holder assembly suspension Note: required for UP test
 - UP adapter set, see below 1, 2, 3
 - UI adapter set, see below 4, 5, 6



Adapter for UP:

1. MACK, DAF, Renault
2. Mercedes Benz Axor, Actros, Citaro, Travego
3. Mercedes Benz Atego

Adapter for UI:

4. Link
5. Bosch 701 and 702 Serie
6. Bosch 720 Serie



General Terms of Sale and Delivery for Export

1. Validity of the General Terms of Sale and Delivery

- a) The following General Terms of Sale and Delivery are valid for all business contacts between ourselves and our customers, including future contracts, unless specifically agreed otherwise and confirmed in writing or by telex.
- b) Any deviations from these terms which may appear on order forms or orders from customers have no validity. Such deviations are not binding to us even when they are not explicitly declared invalid by us or even when we execute a delivery on receipt of an order containing such deviations.
- c) All verbal agreements or arrangements, as well as all alterations or extensions to contracts confirmed in writing or telegraphically, require a separate written or telegraphic confirmation.
- d) All contracts with our customers are only binding when confirmed in writing or telegraphically. This confirmation may also be given at the same time as the invoice is received. Until this confirmation has been given, our offer is without obligation and not binding.
- e) The invalidation of an individual item of these General Terms of Sale and Delivery in no way affects the validity of any other item.
- f) All items which the seller offers are manufactured by the company of the seller. The seller guarantees that all items are of highest quality and precise fitting. All goods offered by the seller are goods which are offered for the purpose of being used as spare parts. Part numbers of other manufacturers are only mentioned for comparison purposes.

2. Terms of delivery

- a) Our prices are quoted in EUR. The agreed prices are based on the current purchasing prices, standard wages and salaries, customs duty, freight costs and other social costs. Should these costs increase after the contract has been confirmed, we reserve the right to raise our prices accordingly.
- b) Special packaging is accounted to cost price.
- c) We reserve the right to bill for costs incurred in producing test components together with the cost of tooling for such components.
- d) Partial shipments are permissible.
- e) Our delivery times are accurate to the best of our knowledge at the time of quotation. Call contracts and scheduled deliveries require a special delivery agreement in all cases. If a contracted delivery period is exceeded by more than 3 weeks for reasons which are our liability, the customer is entitled to withdraw the contract after a further 3 weeks period of grace.
- f) For contracts which consist of several partial shipments, the later delivery of a partial shipment does not imply any alteration in rights for the remaining shipments of the contract. For call contracts we reserve the right to purchase raw materials for the complete contract at our discretion and to manufacture the full contracted quantities for small and medium lots immediately. Any alterations made after confirmation of contract without written confirmation therefore cannot be accepted.
- g) We reserve the right to deliver within 10% above or below the contracted quantities.
- h) Returned goods can only be accepted with our prior agreement to the return.
- i) In the event of bankruptcy or insolvency, the execution of a statutory declaration (or affidavit) in accordance with § 807 ZPO, payment difficulties or the notification of a considerable depreciation in the customers pecuniary circumstances, give us the right to halt delivery immediately and to refuse to complete running contracts.

3. Risk liability

- a) All shipments are made at the customers risk.
- b) Our liability ceases as soon as the goods have been correctly delivered to the railway, carrier or transport company, or have been loaded onto our own, or the customers vehicles.
- c) If a customer does not take delivery of a shipment within a reasonable period of grace, or refuses to accept a shipment within a reasonable period of grace, or refuses to accept a shipment, or if a shipment cannot be dispatched for more than 1 month from the agreed delivery date, for reasons which are not our liability, then we are entitled to return the goods to our warehouse at the customers cost and liability. We are entitled to levy storage charges at 75% of the equivalent storage charges levied by a storage company. If the delivery or production is hindered for reasons for which we are neither responsible nor liable, for example force majeure, war or civil unrest, operational breakdowns or traffic stoppages, lack of raw materials or labour, strikes or lock-outs, whether in our plant or a supplier plant, then we are no longer bound by our obligations for delivery, and we are also entitled to halt delivery without subsequent delivery period.

4. Warranty

- a) We warrant good quality and careful execution of the supplied goods for a period of 12 month from date of handing over respective goods to customer or the third party which is responsible for transportation or shipment of respective goods. This warranty exclusively comprises the lack of defects in material and workmanship for the aforementioned period. We are obliged to repair or replace defective parts for the duration of the warranty period in our own expense. Defective parts shall be sent to us by customer solely on his own costs, especially by carriage paid. Credit of the parts shall be reserved. Our warranty does not cover natural wear or components. We are not liable for damage or consequential damage caused by misuse, neglected excessive use or failure to follow operating instructions. Our entire warranty shall expire immediately when changes or repairs are made without our written consent. Warranty claims under Section 437 German Civil Code which can be claimed in addition to the warranty liability of the supplier shall expire after one year from delivery of the goods.
- b) Claims for deficiencies or defects which are obvious must be made in writing immediately, at the latest within 10 days of receipt of the goods, accompanied by a detailed description of the deficiencies or defects.
- c) Claim for hidden defects or deficiencies must be submitted immediately upon detection, at the latest within 10 days of their discovery, together with a detailed description of the defect or deficiency.
- d) In the case of justified defect claims made within the appropriate period of grace, the goods will be either repaired or replaced at our discretion whereby excluding any further claims. If we decide to replace the goods, the defective shipment becomes our property. If justified claims are also made against the repaired or replacement goods, and if further repair or replacement is not deemed acceptable, then the customer has the right to cancel the contract or require the sale price to be reduced correspondingly. The cancellation or reduction is only applicable to those items which have been subject of repeated justified claims. The carriage costs incurred as a result of these guarantees clauses will be carried by us. § 476 A) BGB is inadmissible.
- e) Our statements in regard to the terms and scope of delivery, application (e.g. dimensions, weight, hardness and characteristics) are purely descriptive and do not constitute guaranteed characteristics. The values quoted are intended for guidance and unless specifically agreed to the contrary, they are subject to the variations typical for such quotations in the trade. The characteristics are only considered guaranteed insofar as they have been specifically determined by us on samples for the particular customer application. Minor deviations from such samples or prior shipments, which do not detract from the usability for the projected application, are not considered as justified claims and are not subject to the warranty conditions.
- f) In particular the following cases are not subject to the guarantee: When the shipment is used for purposes other than those for which the contract was made, natural wear, incorrect handling by the customer or third parties, such as incorrect storage, storage beyond the normal store life, incorrect installation etc., defects in the component or machine in which the goods are installed (e. g. defective sealing surfaces), the use of incorrect materials, e. g. liquids to be sealed, lubricants etc..

5. Patents and protected rights

- a) All tools, samples, designs, drawings, cost estimates and similar documents, remain the unrestricted property of our company, even when the apportioned costs have been billed to the customer. Our rights of use and title are retained. We are not duty bound to retain machine tools longer than a reasonable retention period. The above mentioned items may not be made available to third parties without our express permission. Drawings and other documents which constitute a part of the contract are to be returned to us on request, in particular in those cases where we are not awarded the contract.
- b) Insofar as we have produced and delivered the contracted goods from drawings, models or samples provided by the customer, the customer is responsible for ensuring that the protected or patent rights of third parties are not contravened. If third parties prevent us manufacturing or delivering as a result of such rights, then we are entitled to stop production or delivery immediately without to clarify the legal situation and to claim damages against the customer. Independent of the above, the customer is bound to free us from all claims caused by contravention of third party protected or patent rights.

6. Retention of title

- a) We reserve the right of title to the delivered goods until all vested interests from the business association, such as interest, auxiliary claims and any legal cost incurred, including the costs of a third party notice resulting from the attachment of the goods by third parties. A seizure of the goods must be requested by the customer.
- b) If the customer falls in arrears in payment, we are entitled to reclaim the right of ownership to the delivered goods as a precaution. This claim and its execution do not constitute withdrawal from the contract, neither does a claim that the delivered goods in question be stored separately and given identification marks.
- c) The customers rights on resold or reused items from such reserved goods are already waived in our favour, together with all auxiliary rights, regardless of whether the goods have, or have not, been processed in any way or the goods have been sold to third parties, then our rights are transferred to the payments due or received from such third parties. The customer is only entitled to use the reserved goods for his normal business operations. This entitlement does not apply to cases under section 2 i)

7. Terms of payment

- a) Unless otherwise agreed, payment is due within 30 days of the date of invoice, in full without deductions.
- b) Unless otherwise agreed, the payment is automatically in arrears on the 30th day after the date on invoice (§ 294 (2) BGB). Interest at 5% above the Federal German bank rate will then be charged. We reserve the right however to make further arrears claims if necessary.
- c) Unless otherwise agreed by the customer, payments will always be assumed to be made against the longest outstanding invoice, including any auxiliary claim amounts due against such invoices.
- d) Cheques and bills of exchange are only accepted in payment by prior arrangements and under consideration of all collection costs and discounts, and they are only accepted in payment.
- e) Discounting against our delivery invoices is only allowed in cases where our debt is not disputed or if such a debt has been legally awarded to the customer against us.
- f) Withholding of payment by the customers not permissible.
- g) Should the customers pecuniary circumstances decline e. g. if a letter of exchange or cheque is not honoured, or when insolvency action is taken against him, or the commencement of equity proceedings, then we are entitled to demand prepayment. At the same time all existing payments due, including those for which we have received letters of exchange, become due for payment immediately.

8. Exceptions to rights of indemnity

No rights of indemnity of any type exist against us, our legal representatives, servants, and employees, insofar as is legally possible, in particular for cases of minor negligence. It is irrelevant whether such cases are infringements of contract or auxiliary duties such as customer consultancy either verbal or in writing, infringement of obligations at the time of awarding of contract, or due to other unauthorised actions as well as damages consequent on deficiencies, damages due to delays, and any damages due to defective construction. These liability regulations apply equally to our advice, either verbal or in writing, resulting from trials or any other means. Such advice does not exempt the customer from the need to make confirmatory trials. All claims for damages made against us, regardless of legal basis and regardless of the question of responsibility, lapse 6 months after delivery of the goods, or completion of the plant or other services.

9. Data protection

We are authorized to collect and save data for the purposes of our business electronically as provided for by the regulations of the Bundesdatenschutzgesetz.

10. Applicable law

The legal relationships between ourselves and our customers are exclusively based on German laws. This applies equally to the drawing up and execution of the contracts. The provisions of UN sales of goods law will not apply.

11. Place of jurisdiction and place of delivery

- a) The place of delivery for all shipments and settlements is Schwarzenbek. The place of settlement for all payments is Schwarzenbek.
- b) Place of jurisdiction is Schwarzenbek for all letters of exchange, cheques and certifications, when the customer is the sole buyer, without damage to our right to utilize the customers local courts should we desire it.
- c) If any individual provision of these terms and conditions becomes void this will not affect the validity of the remaining provisions. The void provision will be replaced by the applicable legal provision.

Portex

32 years of success



Vehicle parts worldwide

Quality is our business

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e-mail: flag@portex.de
internet: www.portex.de



Qualitätsmanagement
Wir sind zertifiziert
Regelmäßige freiwillige
Überwachung nach ISO 9001:2008



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