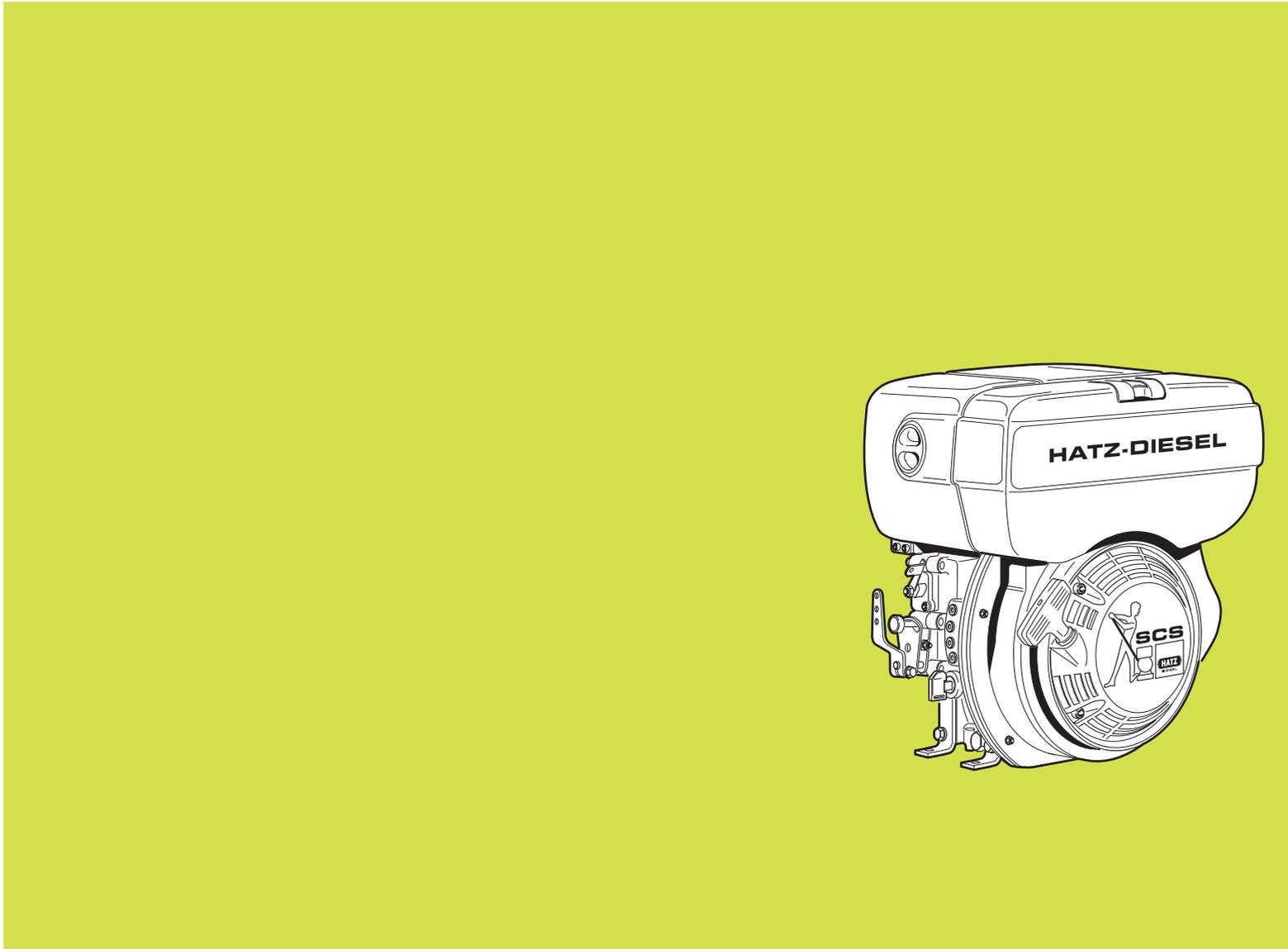




MOTORENFABRIK HATZ • D-94099 Ruhstorf • Germany
Tel.: 0 85 31 / 3 19-0 • Telefax: 0 85 31 / 31 94 18
eMail: marketing@hatz-diesel.de • <http://www.hatz-diesel.de>

Original-Ersatzteile
Original-spare parts
Pièces de rechange d'origine
Repuestos originales
Pezzi di ricambio originali



1B20
1B30

434 800 13- 09.03- 5
Printed in Germany

Bestellung für HATZ-Original-Ersatzteile

Order for HATZ Original spare parts

Commande de pièces d'origine HATZ

Pedido de repuestos originales HATZ

Ordine parti di ricambio originali HATZ

1

Besteller / Customer / Client / Cliente / Cliente

2

TYP	
MOTOR/FABRIK NO.	
MIN-1	

3

Ersatzteilliste Nr./ Spare parts list no./ Liste des pièces de rechange no./ Lista de repuestos No./ Lista ricambi n.
1 B 20.28 <input type="checkbox"/> 1 B 30.23 <input type="checkbox"/>

4

Stück / Qty / Q.tà	HATZ Ident No.	Stück / Qty / Q.tà	HATZ Ident No.

5

Versandart / Mode of dispatch / Mode d'expédition / Despacho deseado / Modo di spedizione	
Post / Surface / Poste / Correo / Posta <input type="checkbox"/>	Luftfracht / airfreight / frêt aérien / flete aereo / Via aerea <input type="checkbox"/>
Express / express / exprès / expreso / Espresso <input type="checkbox"/> <input type="checkbox"/>

6

Versandadresse / Consignee / Adresse destination / Dirección / Indirizzo di destinazione
--

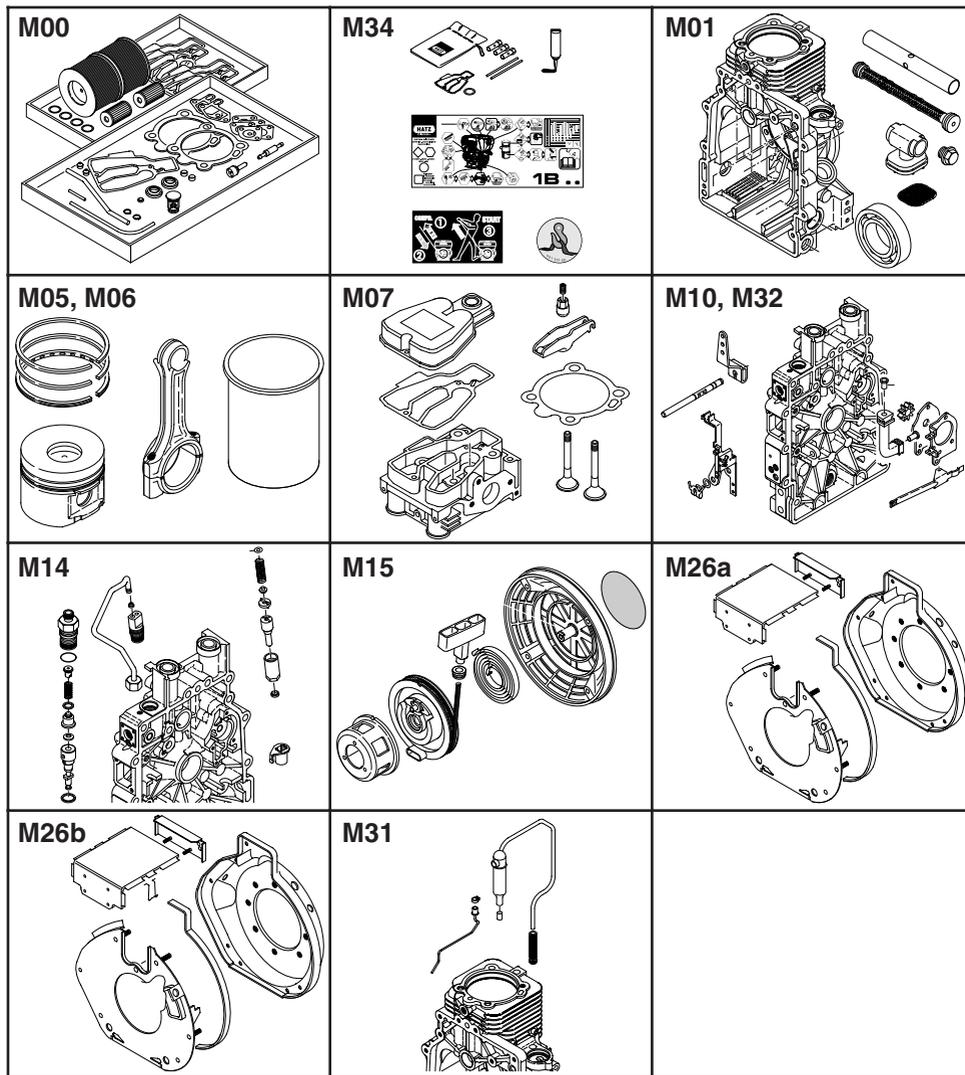
Bestellung an: Order at: Commande à: Pedido a:

- die nächste HATZ-Servicestelle (siehe Servicestellenverzeichnis)
- your nearest HATZ service station (see service-list)
- votre station-service HATZ la plus proche (voir liste "Service")
- al servizio HATZ más cercano (ver cuaderno de Servicio)
- al più vicino centro di servizio HATZ (vedi lista centri autorizzati)

**MOTORENFABRIK HATZ
D-94099 RUHSTORF**

Tel: 0 85 31 / 319 - 0

Fax: 0 85 31 / 31 94 21



Weitere Ersatzteilm Informationen erhalten sie bei Ihrer nächsten Servicestelle und im Internet unter:

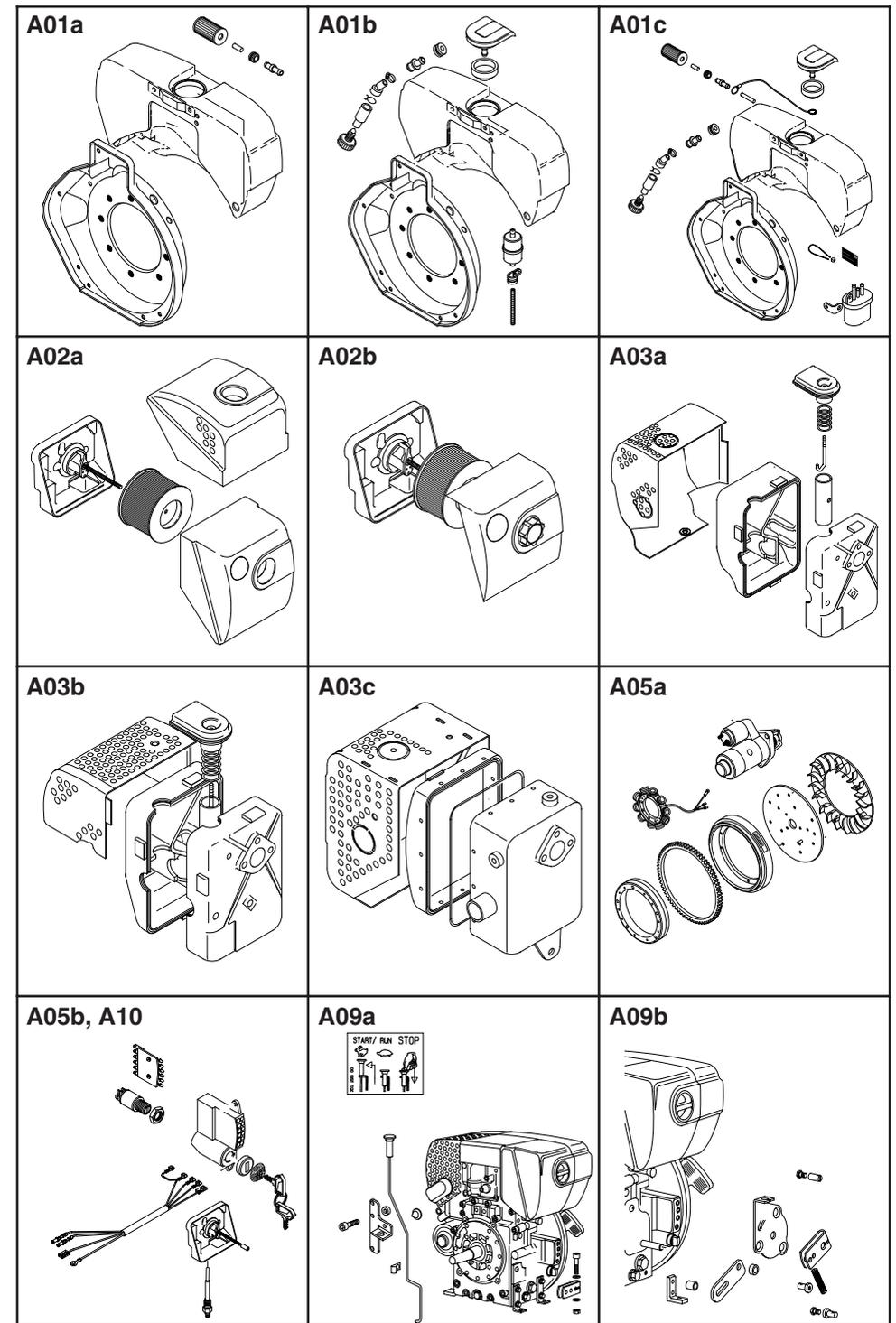
Further spare parts information will be provided at your nearest service agent and in the Internet under:

Pour des informations complémentaires concernant les pièces détachées, veuillez contacter l'agent Hatz le plus proche ou Internet sous:

Para conseguir información adicional sobre repuestos dirigirse al distribuidor Hatz más cercano o bien en internet:

Ulteriori informazioni in merito ai pezzi di ricambio vi saranno fornite dal vostro agente Hatz più vicino oppure in Internet qui sotto:

<http://www.hatz-diesel.de>



Ersatzteilsätze
Spare parts kits
Jeux de pièces de rechange
Juegos de piezas de recambios
Serie guarnizioni

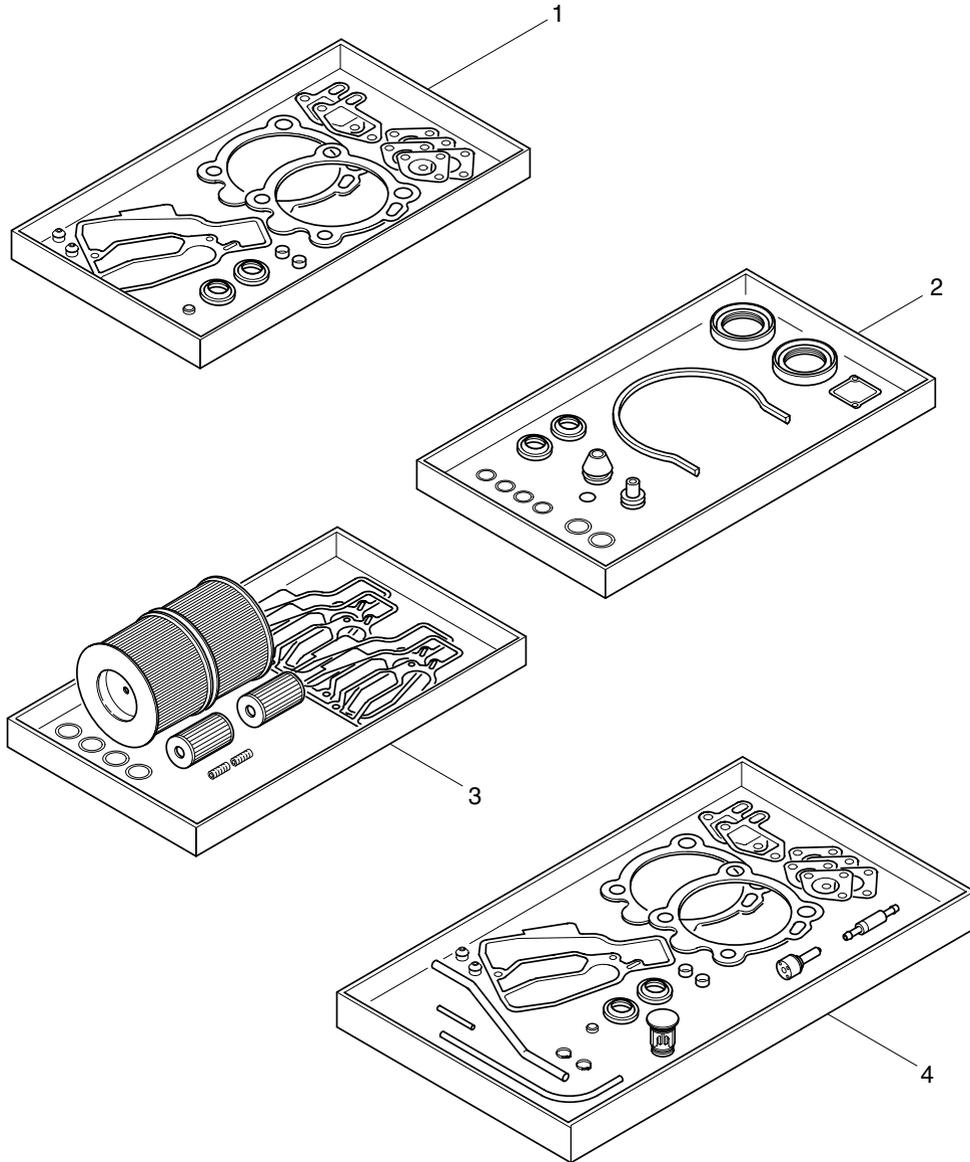


Fig.- No.	HATZ Ident-No.	Stück Qty.	1B20	1B30	P / W d / D	Bemerkungen Notes
			1B20	1B30		
						W: Im Wartungssatz enthalten. Incl. in maintenance kit. Contenu dans le jeu d'entretien. Incluido en el juego de mantenimiento. Contenuto nella serie manutenzione.
						P: Im Pannensatz enthalten. Incl. in emergency kit. Contenu dans le jeu secur. Incluido en el juego para averias. Contenuto nella serie di prima necessità.
						d: Im Dichtungssatz f. 1 Zyl.-Kopf enthalten. Incl. in gasket set f. 1 cyl. head. Contenu dans le jeu de joint p. 1 culasse. Incluido en el juego de juntas p. 1 culata. Contenuto nella serie guarnizioni p. 1 testa.
						D: Im Dichtungssatz Kurbelgeh. Incl. in gasket set crankcase. Contenu dans le jeu de joints carter moteur. Incluido en el juego de juntas caja cigueñal. Contenuto nella serie guarnizioni basamento.
						1: Anzahl pro Satz - Qty. per kit Quantite p. jeu - Cantidad p. juego Quantità per serie
1	01554100	1	-		P 1	Dichtungssatz für 1 Zylinderkopf
1	01582201	-	1		P 1	Gasket set for 1 cyl. head
						Jeu de joint p. 1 culasse
						Juego de juntas para 1 culata
						Serie guarnizioni per 1 testa
2	01554202	1	-			Dichtungssatz für Kurbelgehäuse
2	01582303	-	1			Gasket set for crankcase
						Jeu de joints p. carter moteur
						Juego de juntas para caja cigueñal
						Serie guarnizioni basamento
3	01554310	1	-			Wartungssatz für 1000 h
3	01582410	-	1			1000 hours maintenance kit
						Kit d'entretien 1000 heures -
						Juego de piezas para servicio 1C 1000 horas
						Kit di manutenzione a 1000 ore
4	01554410	1	-			Pannensatz - Emergency kit
4	01582500	-	1			Kit de secours-Juego para averias
						Kit di prima necessità

M34

Zubehör
Accessories
Accessoires
Accessorios
Kit accessori

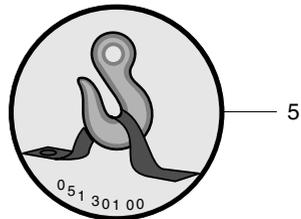
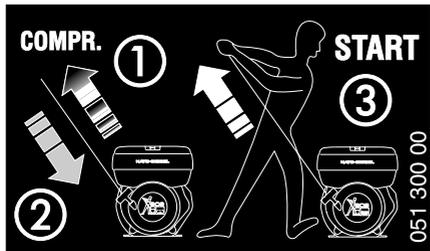
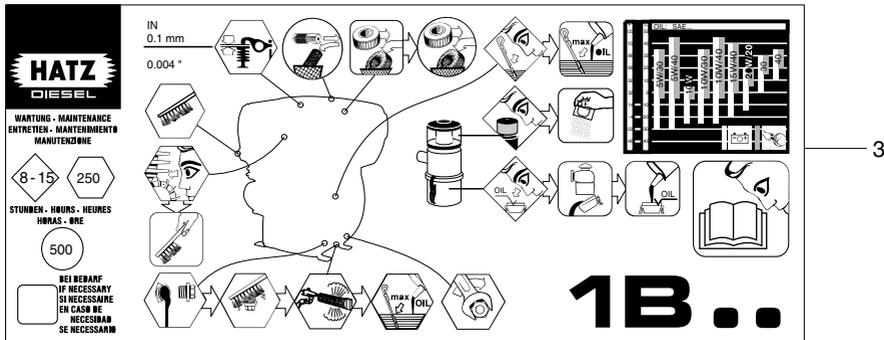
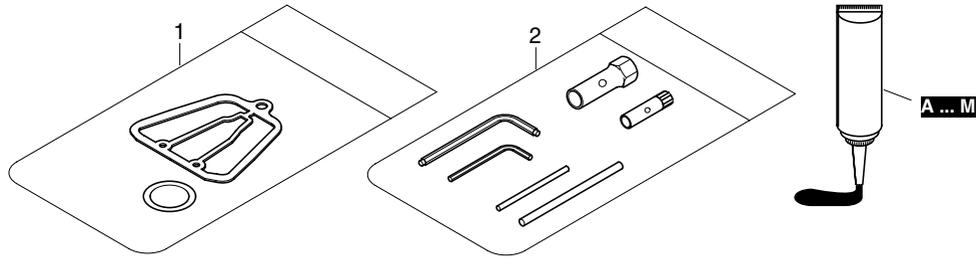


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01331002	1	-		Zubehörsatz - Accessoires kit
1	01578701	-	1		Zubehörsatz - Accessoires kit
2	01330901	1	1		Werkzeugsatz - Tool set
3	05110402	1	1		160 x 67mm
4	05130000	1	1		
5	05130100	1	1		

Dicht- und Klebstoffe
Sealing- and bonding adhesives
Etanchéifiant et Colle

Materias para empaquetar y pegar
Adesivi e collanti

A =	502 230 01	Loctite Activator N	500 ml
B =	502 231 01	Loctite 574	50 ml
C =	502 232 00	Loctite 601	50 ml
D =	502 233 00	Loctite 221	50 ml
E =	502 234 00	Loctite 648	10 ml
F =	502 238 00	Technicoll 8058	0,75 kg
	+ 502 239 00	Technicoll 8367	0,75 kg
G =	502 565 01	Loctite IS 407	20 g
H =	502 825 01	Silicon	30 ml
J =	502 830 04	Hochtemp. Paste	100 ml
K =	503 426 01	Hochtemp. Fett	400 g
L =	502 566 00	Silicon sealer	100 g
M =	504 851 00	Schleifpaste	80 g

siehe Hinweis auf den einzelnen Bildtafeln
as specified in the individual tables
suivant les remarques sur les tableau correspondant
según las indicaciones de las tablas correspondientes
seguire le indicazioni sul quadro corrispondente

M01

Kurbelgehäuse
Crankcase
Carter moteur
Caja cigueñal
Basamento motore

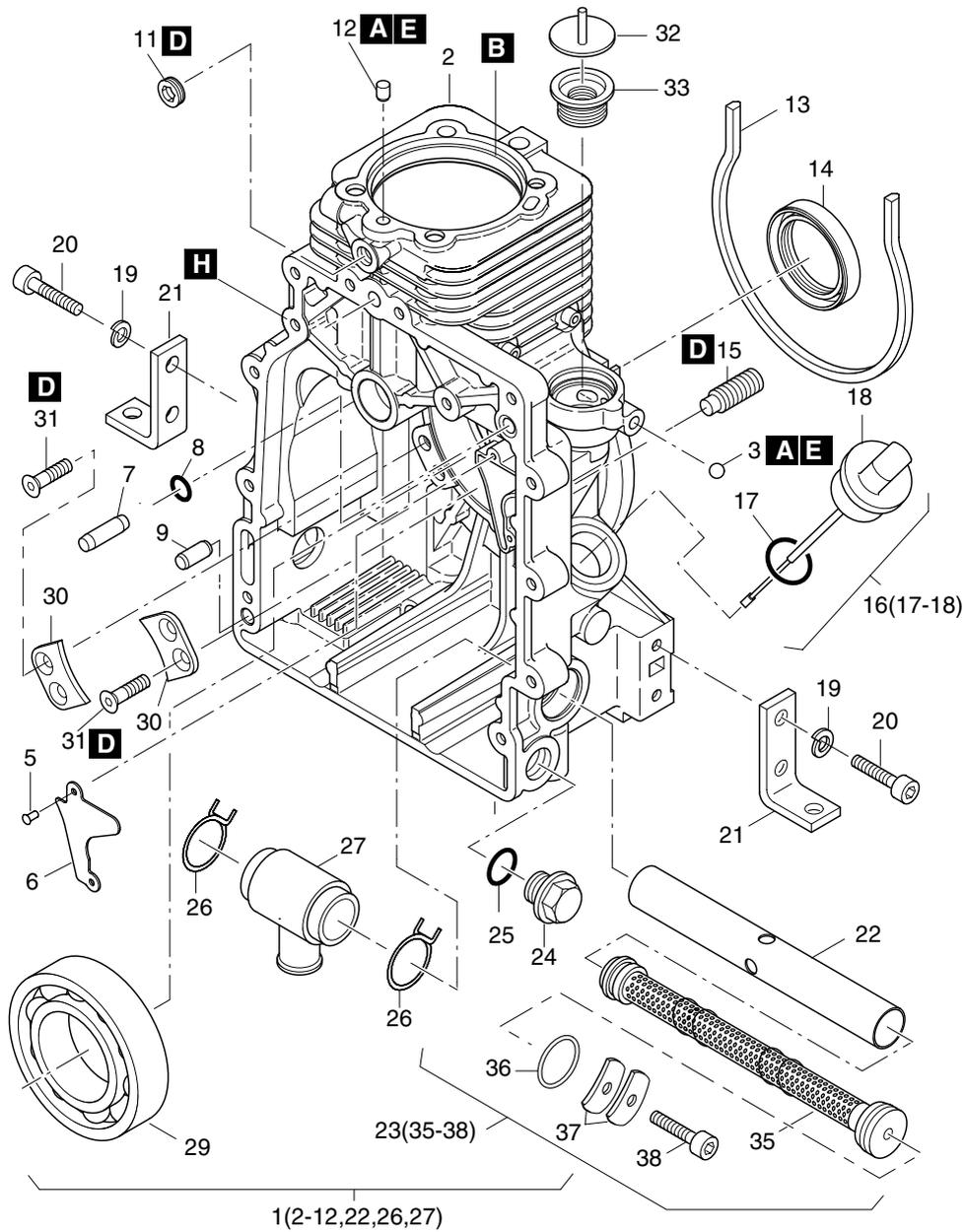


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01552220	1	-		
1	01582720	-	1		
2	-----	-	-		
3	-----	-	-		
5	40002600	2	2		3,2
6	04105400	1	-		
6	01333100	-	1		
7	50502801	1	1		8 M 6 x 24 DIN 6325 2 Fasen
8	50440300	1	1	D1	8 x 1,5
9	50249101	1	1		8 M 6 x 20 DIN 6325 2-Fasen
10	-----	-	-		
11	50062300	1	1		M 10 x 1 DIN 908-5.8 A3C
12	-----	-	-		
13	04098000	1	-	D1	318 mm
14	50423200	1	-	D1	40 x 55 x 10 AS
14	50449800	-	1	D1	42 x 55 x 10 AS
15	04150600	1	1		
16	01316000	1	1		
17	04125000	1	1	D1	26 x 35 x3
18	-----	-	-		
19	50208500	8	8		8 DIN 128 A3C
20	04121900	8	8		M 8 x 35 A3C
21	04099302	4	4		
22	04105710	1	1		
23	01542702	1	1		
24	50373100	1	1	W1	AM22x1,5DIN7604A3C MAGN.
25	50469800	1	1	D2, W4	A 22 x 27 DIN 7603 - Vf
26	05036900	2	2		
27	04163000	1	1		
29	50423300	1	-		
29	50449700	-	1		
30	04094400	2	2		
31	50328000	4	4		AM 6 x 16 17065 - 8.8 Zn
32	01555800	1	1		
33	03568700	1	1		
35	-----	-	-		
36	50475901	1	1	W1, D1	20 x 4
37	05148200	2	2		
38	50170700	1	1		M 6 x 16 DIN 912-8.8 A3C

M05, M06

Kolben, Pleuel, Zylinder
 Piston, conrod, cylinder
 Piston, bielle, cylindre
 Embolo, biela, cilindro
 Pistone, biella, cilindro

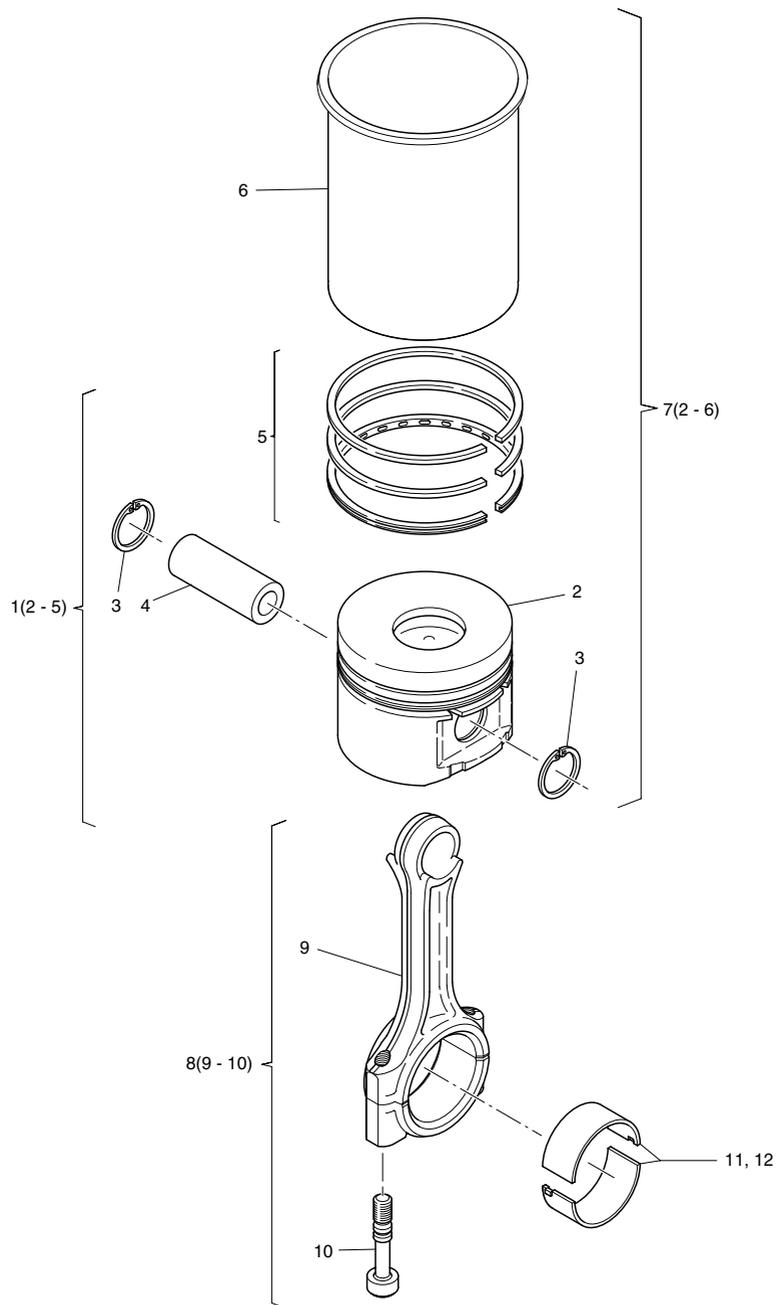


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01348110	1	-		69 mm
1	01328503	-	1		80 mm
2	-----	-	-		
3	50425500	2	-		
3	50464000	-	2		
4	-----	-	-		
5	01317200	0 ...1	-		1,75mm
5	01348000	0 ...1	-		1,5mm
5	01328602	-	1		
6	-----	-	-		
7	01554510	1	-		
7	01582600	-	1		
8	01500100	1	-		
8	01329201	-	1		
9	-----	-	-		
10	05046900	2	-		
10	04113100	-	2		
11	01575700	1	-		
11	01582100	-	1		
12	01581900	1	-		-0,5 mm
12	01582000	-	1		-0,5 mm

M07

Zylinderkopf
Cylinder head
Culasse
Culata
Testa

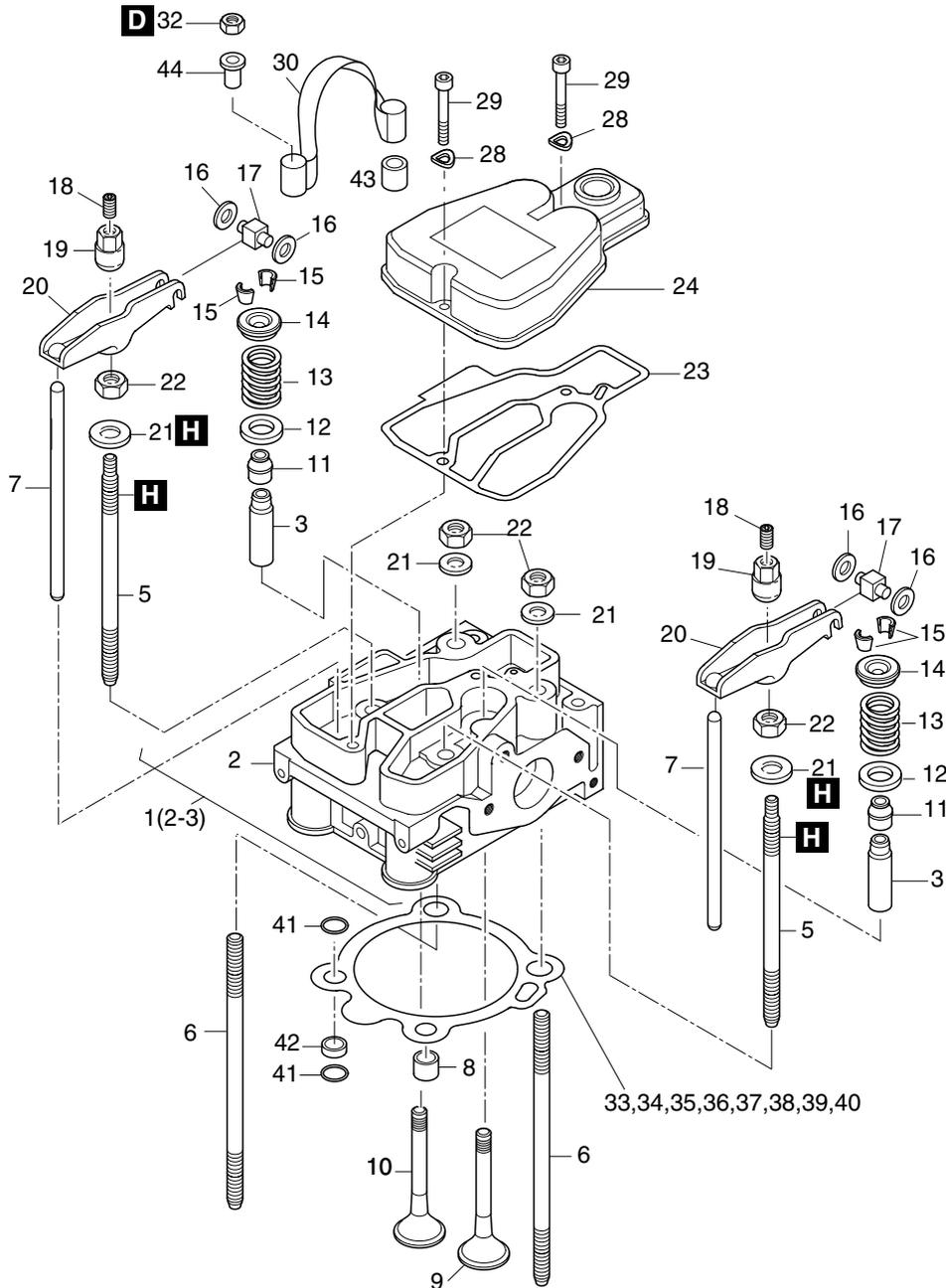


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01500240	1	-		
1	01529810	-	1		
2	-----	-	-		
3	05119400	2	-		
3	05129500	-	2		
5	05097500	-	2		141 mm (M 10 - M 8)
6	05062500	4	-		128 mm (M 8)
6	05097400	-	2		148 mm (M 10)
7	05054000	2	-		
7	05098900	-	2		174,8 mm
8	04107500	2	-	d2	
9	05053200	1	-		
9	05093000	-	1		
10	05053300	1	-		
10	05093100	-	1		
11	50425800	2	2	d2	
12	04093700	2	2		
13	04093600	2	-		
13	04113500	-	2		
14	04093800	2	2		
15	50425700	2	2		
16	05240700	0... 4	0... 4		6 x 12 x 1,35
16	50445100	0... 4	0... 4		6 x 12 x 1,2 DIN 988
17	05091101	2	2		
18	50513100	2	2	W2	M 8 x 10 DIN 916 - 45 H
19	05054700	2	2		
20	05050901	2	-		
20	05098202	-	2		
21	05061201	4	-		8,1 x 20 x 3
21	05099300	-	4		10,1 x 24 x 3
22	50364300	4	-		M 8 DIN 934 - 10.9 A3C
22	50396600	-	4		M 10 DIN 934-10 A3C
23	05055700	1	-	d1, W4	
23	05093301	-	1	d1, W4	
24	05047320	1	-		
24	05092710	-	1		
28	50081200	2	2		A6 DIN 137 - A3C
29	50374900	2	2		M6 x 35 DIN 912-8.8 A3C
30	04117610	1	-		
30	04117701	-	1		
32	50129500	2	-		M 8 DIN 985-8 A3C
32	50023800	-	2		BM 10 DIN 439 - A3C
33	05059400	0... 1	-		0,3 mm
33	05096301	-	0... 1		0,3 mm
34	05059500	0... 1	-		0,4 mm

M07

Zylinderkopf
Cylinder head
Culasse
Culata
Testa

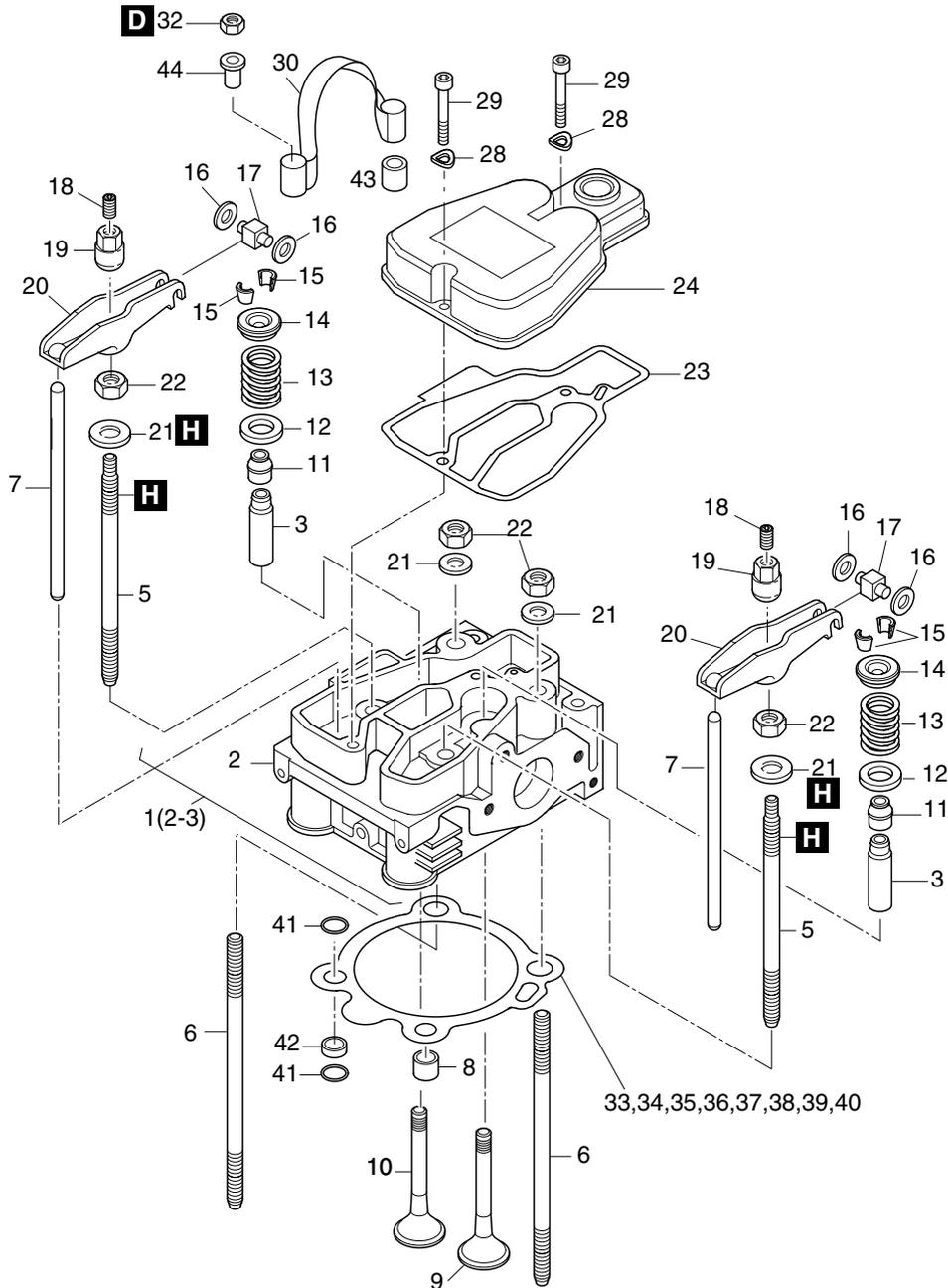


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
34	05096401	-	0... 1		0,4 mm
35	05059600	0... 1	-	d1	0,5 mm
35	05096501	-	0... 1		0,5 mm
36	05059700	0... 1	-	d1	0,6 mm
36	05096601	-	0... 1	d1	0,6 mm
37	05059800	0... 1	-		0,7 mm
37	05096701	-	0... 1	d1	0,7 mm
38	05059900	0... 1	-		0,8 mm
38	05096801	-	0... 1		0,8 mm
39	05060000	0... 1	-		0,9 mm
39	05096901	-	0... 1		0,9 mm
40	05060100	0... 1	-		1,0 mm
40	05097001	-	0... 1		1,0 mm
41	50440300	-	4	d4	8 x 1,5
42	04133500	-	2		
43	04126100	-	2		(10 x 12 x 9)
44	50525900	2	-		A 10 x 0,75 x 10 DIN 7340

M10, M32

Ölpumpe, Regler, Drehzahlverstellung
 Oil pump, governor, speed control
 Pompe à huile, régulateur régime, réglage régime
 Bomba de aceite, regulador, ajuste de revoluciones
 Pompa olio, regolatore di giri, comando acceleratore

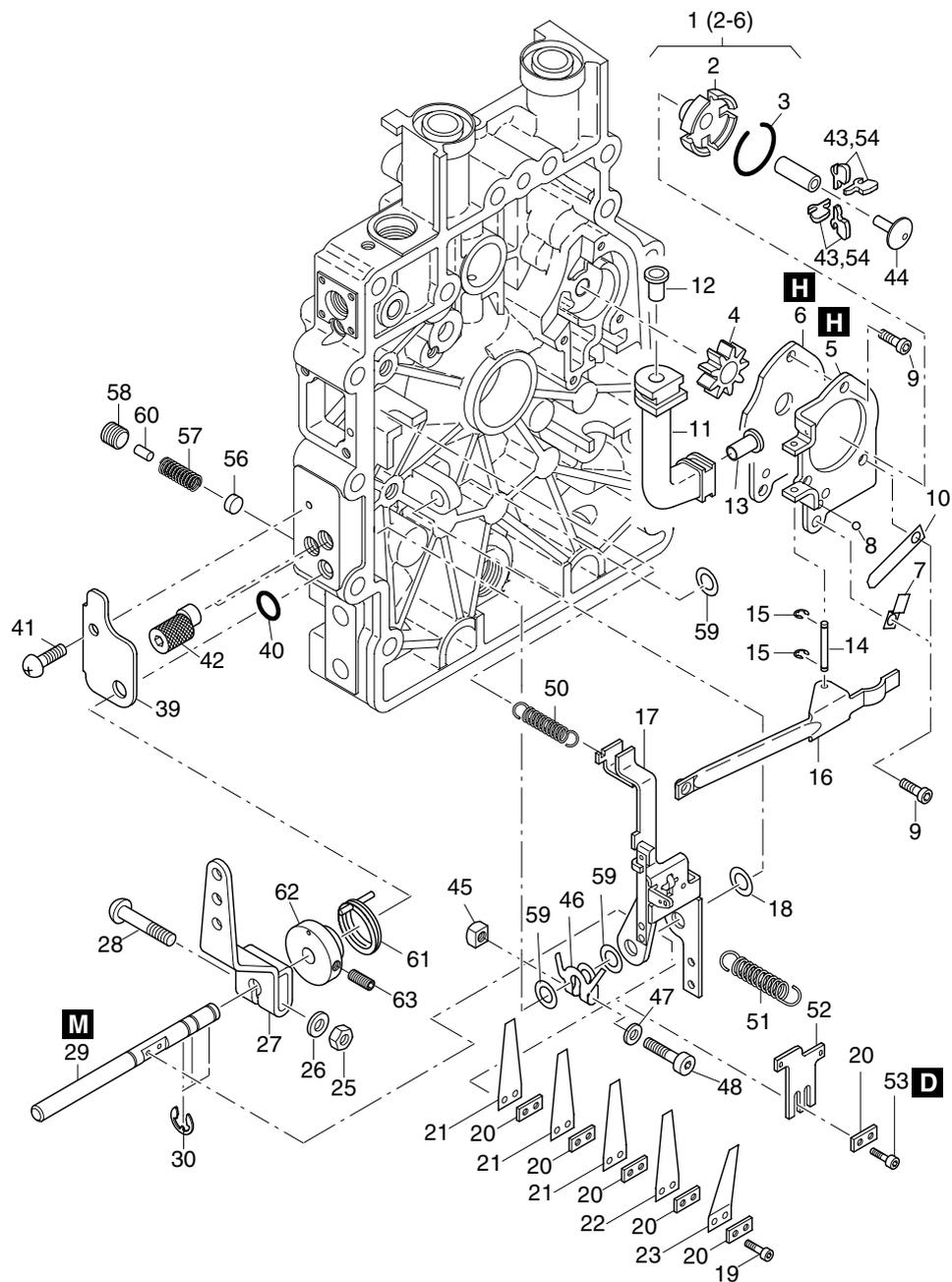


Fig.- No.	HATZ Ident-No.	Stück Qty.	1B20	1B30	P / W d / D	Bemerkungen Notes
1	01530211	1	1			
2	-----	-	-			
3	50434901	1	1			RB25 DIN 7993
4	-----	-	-			
5	-----	-	-			
6	-----	-	-			
7	05097100	1	1			
8	50447900	1	1			3,5mm KL. III
9	50429400	4	4			M5 x 12 DIN 6912 - 8.8
10	05097300	1	1			0,4 mm
11	04102900	1	1			
12	50447400	1	1			A8 x 0,5 x 12 DIN 7340 - St
13	50447500	1	1			A10 x 0,75 x 12 DIN 7340 - St
14	05078600	1	1			
15	50434800	2	2			1,9 DIN 6799
16	05079401	1	1			
17	01530403	1	1			
18	50125800	1	1			8 x 14 x 0,5 DIN 988
19	50435000	2	2			M 3 x 12 DIN 912-8.8
20	05079800	1...5	1...5			
21	05131600	1...2	1...3			0,2 mm Gen.-PV 78
22	05078900	1...2	1			0,3 mm Gen.-PV 78
23	05148600	1	1			0,4 mm 19° Gen.-PV 78
25	50144400	1	1			M 6 DIN 934 - 8 A3C
26	50144500	1	1			6,4 DIN 125-St A3C
27	04095600	1	1			
28	03927300	1	1			M 6 x 32
29	05079301	1	1			
30	50092700	3	3			7 DIN 6799 A3C
39	05178400	1	1			
40	40022401	1	1		D1	8 x 2 FPM 75 MOLYKOT.
41	50492300	1	1			M 5 x 12 ISO 7380-10.9 Zn
42	05178810	1	1			
43	05079602	0...8	0...8			Gen.-PV 78 (0)
44	05078502	1	1			
45	50422700	1	1			M 5 DIN 557-5 A3C
46	05178500	1	1			
47	50216300	1	1			5,3 DIN 125-St A3C
48	50492200	1	1			M 5 x 25 DIN 6912-8.8
50	04000200	1	1			
51	05130900	1	1			
52	05130800	1	1			
53	50465300	2	2			M 3 x 8 DIN 912-8.8
54	05160202	0...4	0...4			Gen.-PV 78 (4)
56	05151700	0...1	0...1			

M10, M32

Ölpumpe, Regler, Drehzahlverstellung
 Oil pump, governor, speed control
 Pompe à huile, régulateur régime, réglage régime
 Bomba de aceite, regulador, ajuste de revoluciones
 Pompa olio, regolatore di giri, comando acceleratore

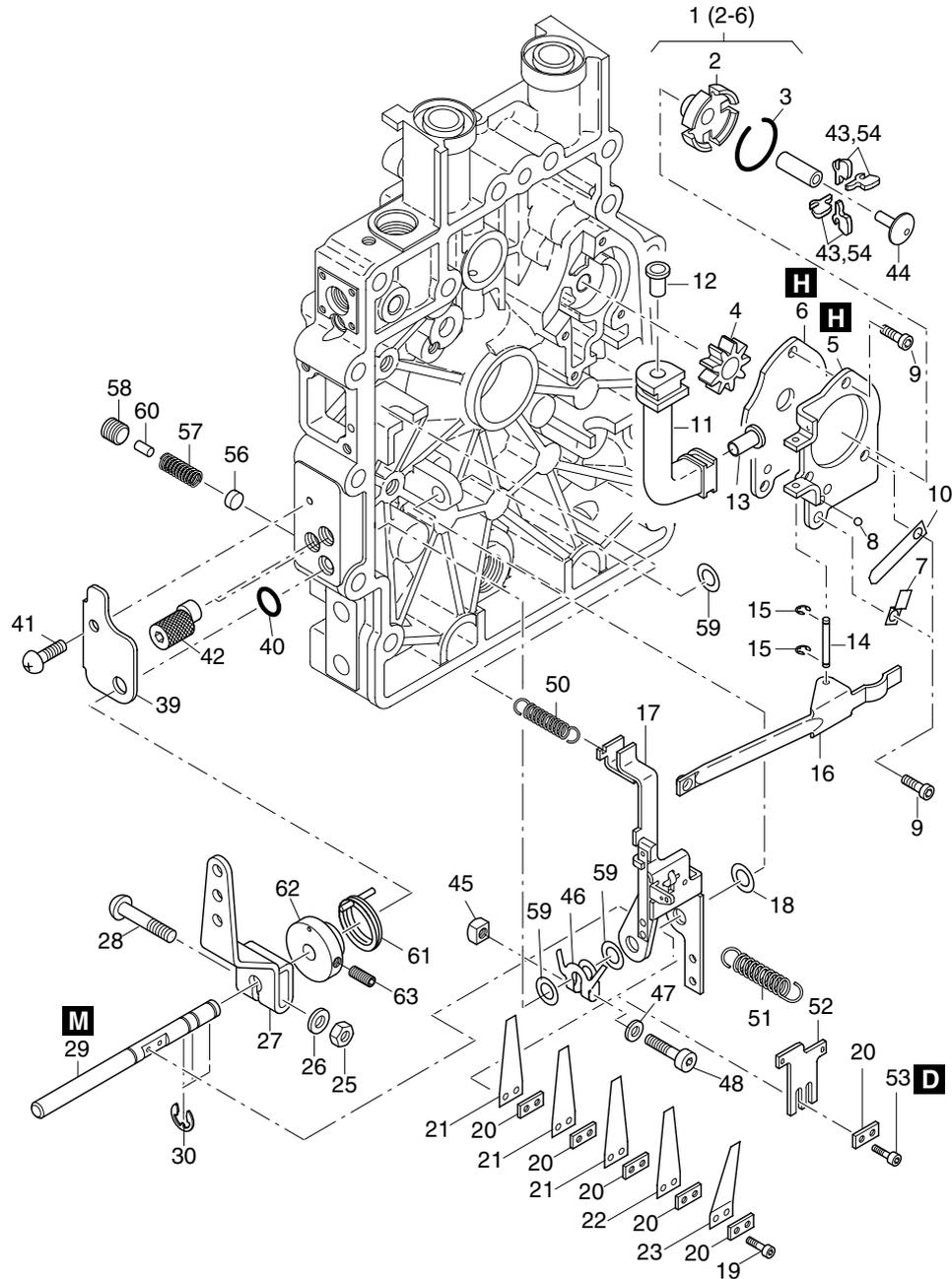


Fig.- No.	HATZ Ident-No.	Stück Qty.	1B20	1B30	P / W d / D	Bemerkungen Notes
57	50488700	0... 1	0... 1			
58	50475700	1	1			M 10 x 10 DIN 913-A3C Tuf.
59	50422400	3	3			8 x 14 x 1,0 DIN 988
60	50057900	0... 1	0... 1			4 M 6 x 8 DIN 7-9S20K
61	05179100	0... 1	0... 1			
62	05179000	0... 1	0... 1			
63	50400600	0... 1	0... 1			M 5 x 10 DIN 916-45H A3C

M14

Einspritzausrstung
 Injection equipment
 Equipment d'injection
 Equipo de inyeccin
 Equipaggiamento di iniezione

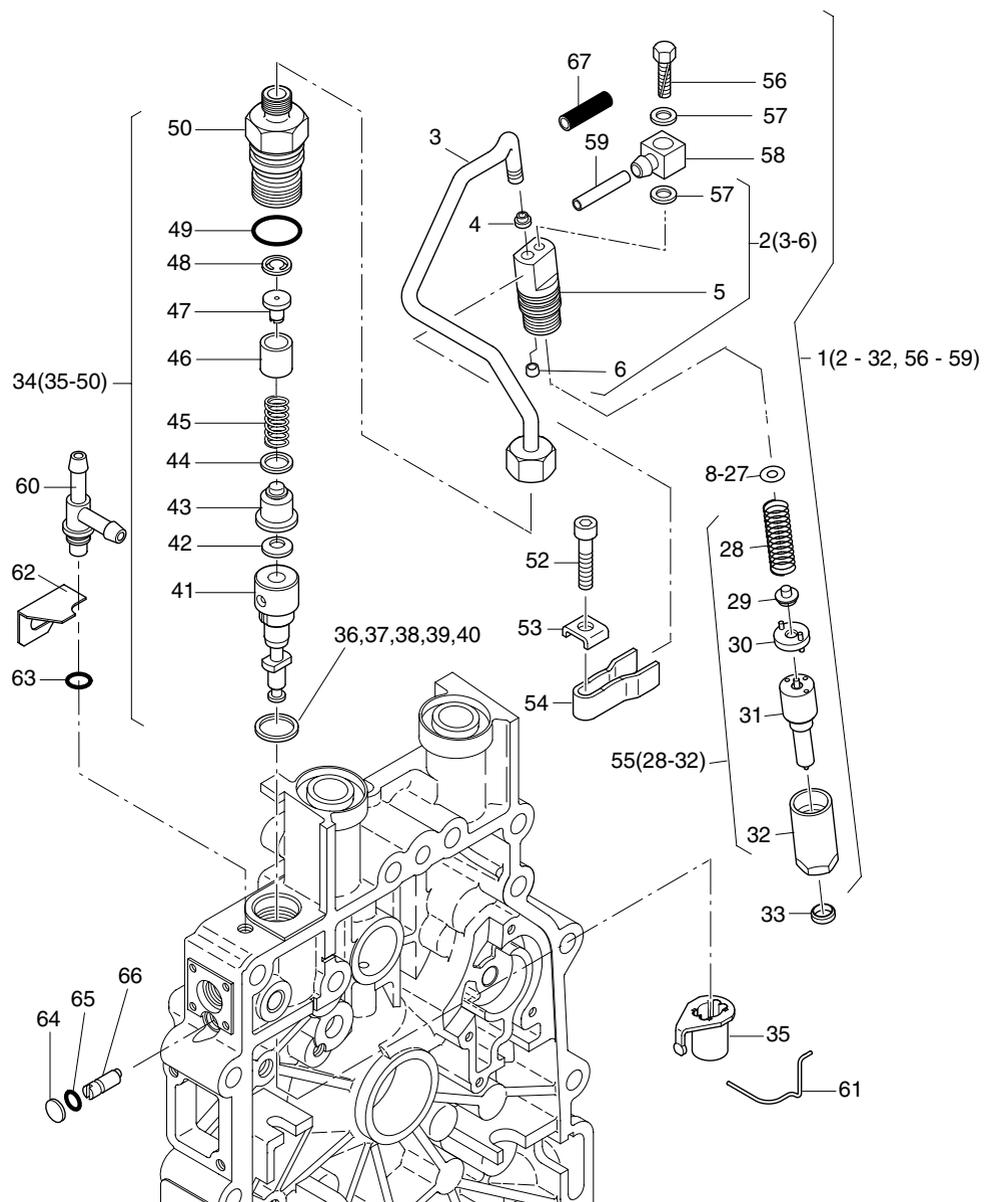


Fig.- No.	HATZ Ident-No.	Stck Qty.	1B20	1B30	P / W d / D	Bemerkungen Notes
1	01621610	1	-			
1	01328800	-	1			
2	01577110	1	-			
2	01582800	-	1			
3	-----	-	-			
4	05070601	1	1			5,3 mm s. 95125802
5	-----	-	-			
6	05081500	0... 1	0 ...1			
8	50436400	0... 1	0 ...1			1,00 mm
9	50436500	0... 1	0 ...1			1,04 mm
10	50436600	0... 1	0 ...1			1,10 mm
11	50436700	0... 1	0 ...1			1,14 mm
12	50436800	0... 1	0 ...1			1,20 mm
13	50436900	0... 1	0 ...1			1,24 mm
14	50437000	0... 1	0 ...1			1,30 mm
15	50437100	0... 1	0 ...1			1,34 mm
16	50437200	0... 1	0 ...1			1,40 mm
17	50437300	0... 1	0 ...1			1,44 mm
18	50437400	0... 1	0 ...1			1,50 mm
19	50437500	0... 1	0 ...1			1,54 mm
20	50437600	0... 1	0 ...1			1,60 mm
21	50437700	0... 1	0 ...1			1,64 mm
22	50437800	0... 1	0 ...1			1,70 mm
23	50437900	0... 1	0 ...1			1,74 mm
24	50438000	0... 1	0 ...1			1,80 mm
25	50438100	0... 1	0 ...1			1,84 mm
26	50438200	0... 1	0 ...1			1,90 mm
27	50438300	0... 1	0 ...1			1,94 mm
28	-----	-	-			
29	-----	-	-			
30	-----	-	-			
31	50489300	1	-			P1
31	50468000	-	1			P1
32	-----	-	-			
33	05070500	1	1			d1
34	01322211	1	-			
34	01582901	-	1			
35	01330801	1	1			
36	04096300	0... 1	0 ...1			0,2 mm
37	04096400	0... 1	0 ...1			0,3 mm
38	04096500	0... 1	0 ...1			0,4 mm
39	04096600	0... 1	0 ...1			0,5 mm
40	04096700	0... 1	0 ...1			0,6 mm
41	-----	-	-			
42	04165200	-	1			8

M15

Reversierstarter
 Recoil starter
 Demarreur reversible
 Arrancador reversible
 Avviamento a strappo

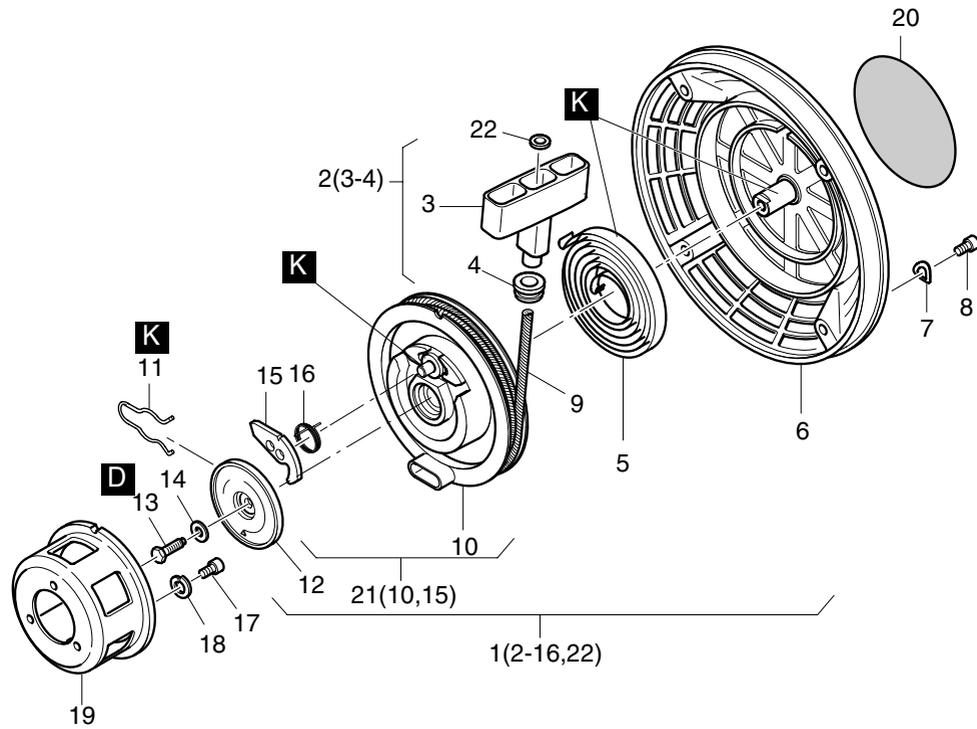


Fig.- No.	HATZ Ident-No.	Stück Qty.	1B20	1B30	P / W d / D	Bemerkungen Notes
			1B20	1B30		
1	01515002	1	1	1		
2	01497800	1	1	1		
3	-----	-	-	-		
4	03665200	1	1	1		
5	05045201	1	1	1		
6	01569300	1	1	1		
7	50081200	4	4	4		A6 DIN 137 - A3C
8	50062700	4	4	4		M 6 x 10 DIN 912 - 8.8 A3C
9	05088901	1	1	1		1750 mm
10	-----	-	-	-		
11	05044901	1	1	1		
12	05045001	1	1	1		
13	50146300	1	1	1		M 6 x 18 DIN 933-8.8 A3C
14	50165600	1	1	1		6,5 x 14 DIN 6904 A3C
15	05044800	1	1	1		
16	05061300	1	1	1		
17	50062700	3	3	3		M 6 x 10 DIN 912 - 8.8 A3C
18	50170900	3	3	3		6 DIN 128 - A3C
19	04155000	1	1	1		
20	05109100	1	1	1		
21	01548800	1	1	1		
22	50514600	1	1	1		5,3 DIN 9021 PA 6.6

M26a

Luftführung - 1B20
 Air ducting - 1B20
 Carter ventilation - 1B20
 Conducción de aire - 1B20
 Carter ventilatore - 1B20

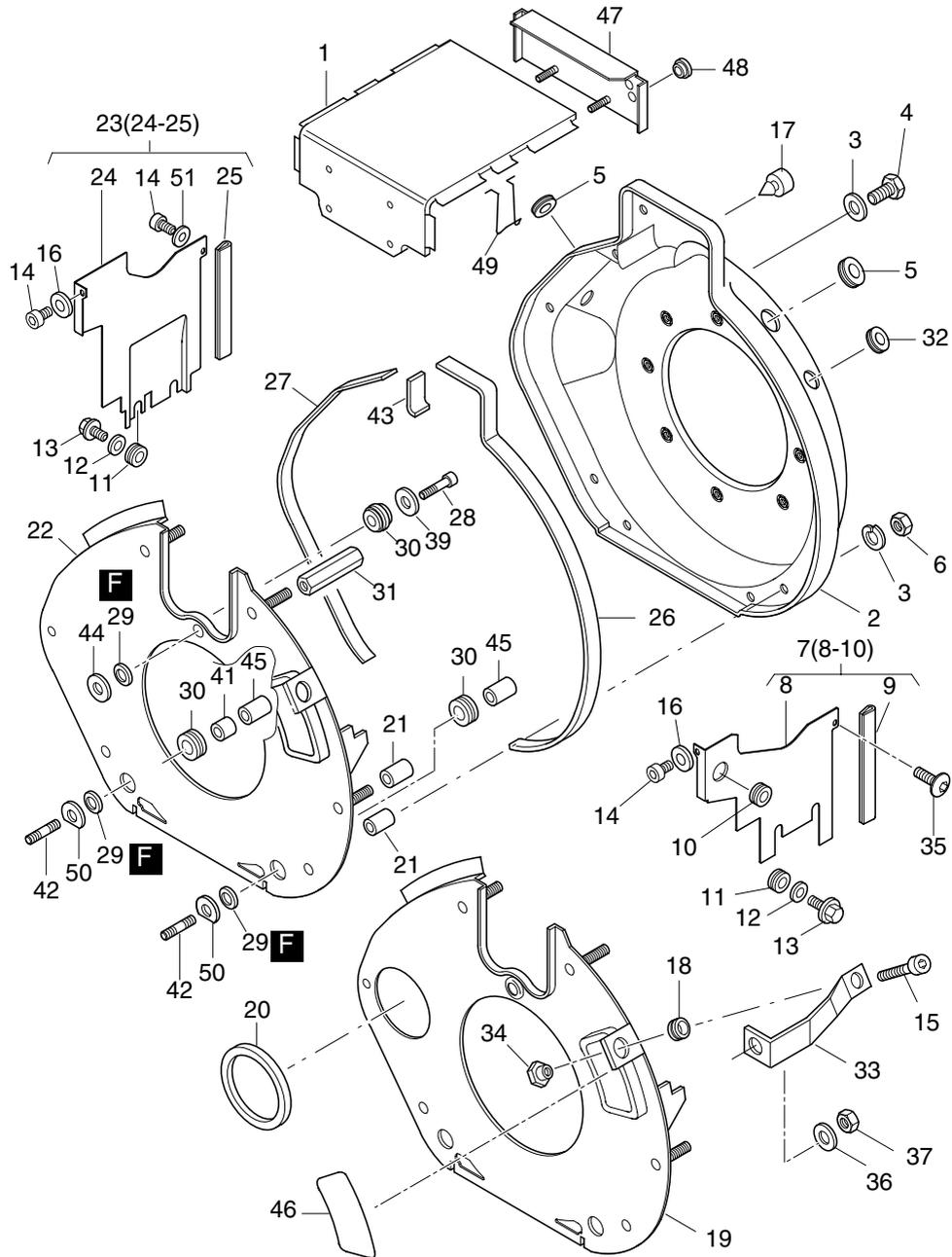


Fig.- No.	HATZ Ident-No.	Stück Qty.	P / W d / D	Bemerkungen Notes
		1B20		
1	01533504	1		
2	01316800	1		
3	50170900	7		6 DIN 128 - A3C
4	50146300	1		M 6 x 18 DIN 933-8.8 A3C
5	50461700	2		
6	50144400	6		M 6 DIN 934 - 8 A3C
7	01316600	1		
8	-----	-		
9	04097600	1		107 mm
10	50334800	1		
11	50163801	4		
12	50441600	3		4,3 DIN 9021 - A3C 140HV
13	50445401	3		M 4 x 10 ST A3C
14	50528100	3		M6x16DIN6912-8.8A3C KL360G
15	50170700	1		M 6 x 16 DIN 912-8.8 A3C
16	50144500	2		6,4 DIN 125-St A3C
17	50392610	2		
18	50392800	1		
19	01607010	1		E-Start
20	04099500	1		
21	04139000	5		6,5 x 12 x 18
22	01607110	1		
23	01316500	1		
24	-----	-		
25	04097600	1		107 mm
26	04124500	1		470 mm
27	04124600	1		388 mm
28	50170800	1		M 6 x 25 DIN 912 - 8.8 A3C
29	03575500	3		
30	01378300	3		
31	04124400	1		57 mm
32	50453300	1		
33	01599500	1		
34	04123200	1		M 6
35	50495000	1		M 6 x 12 DIN 7380-10.9 A3C
36	50095100	1		A 8 DIN 137 A3C
37	50344700	1		M 8 DIN 936 - 5 A3C
39	50170900	1		6 DIN 128 - A3C
42	50458100	2		M 6 x 45 DIN 835 - 8.8 A3C
43	05007300	1		48 mm
44	04042000	1		6,5 x 22,5 x 1
45	04139000	2		6,5 x 12 x 18
46	04215100	0... 1		
47	01579300	1		
48	50334800	2		

M26a

Luftführung - 1B20
 Air ducting - 1B20
 Carter ventilation - 1B20
 Conducción de aire - 1B20
 Carter ventilatore - 1B20

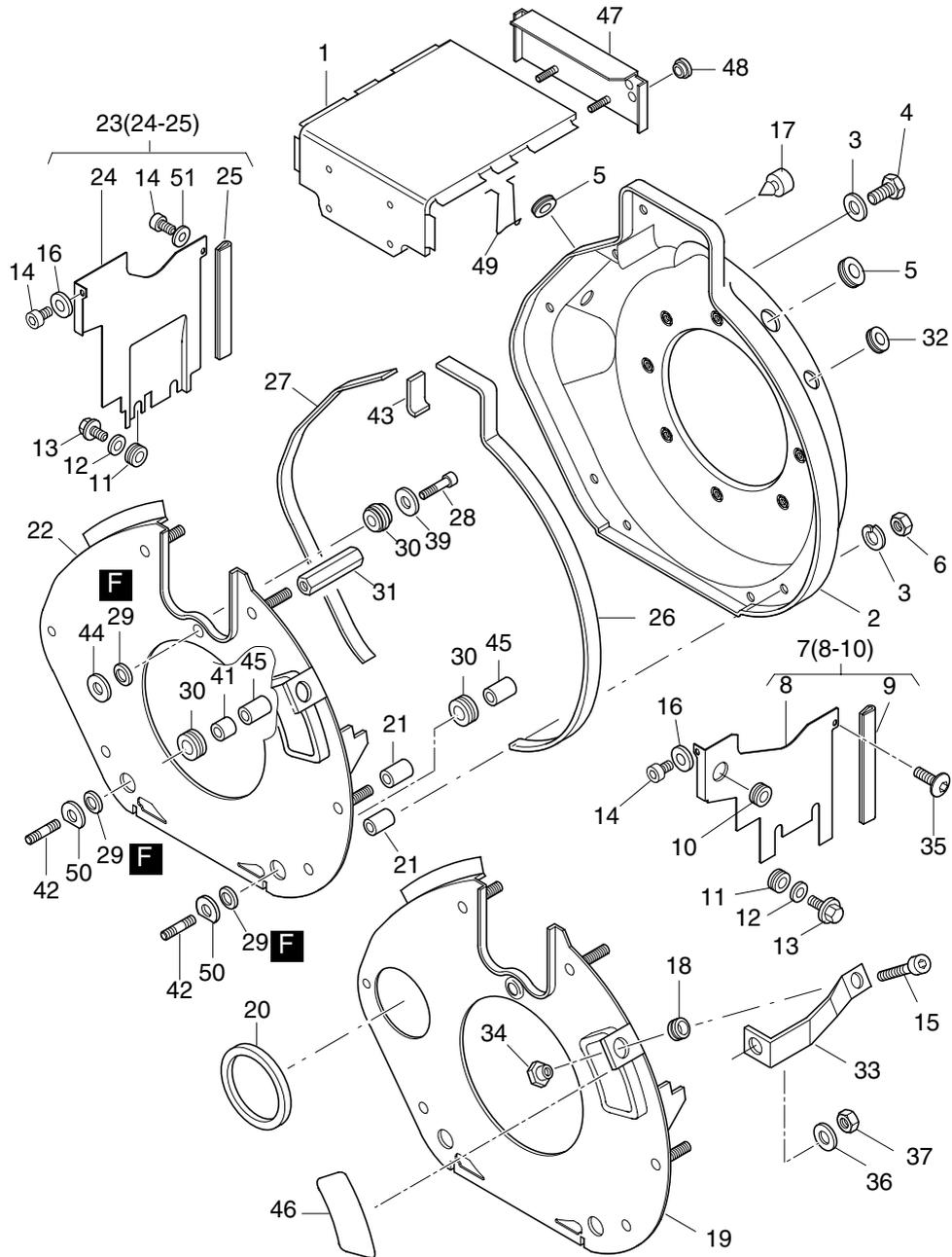


Fig.- No.	HATZ Ident-No.	Stück Qty.	P / W d / D	Bemerkungen Notes
		1B20		
49	05144100	1		
50	04145300	2		
51	04060600	1		6,4 x 16 x 1,5 A3C

M26b

Luftführung - 1B30
 Air ducting - 1B30
 Carter ventilation - 1B30
 Conducción de aire - 1B30
 Carter ventilatore - 1B30

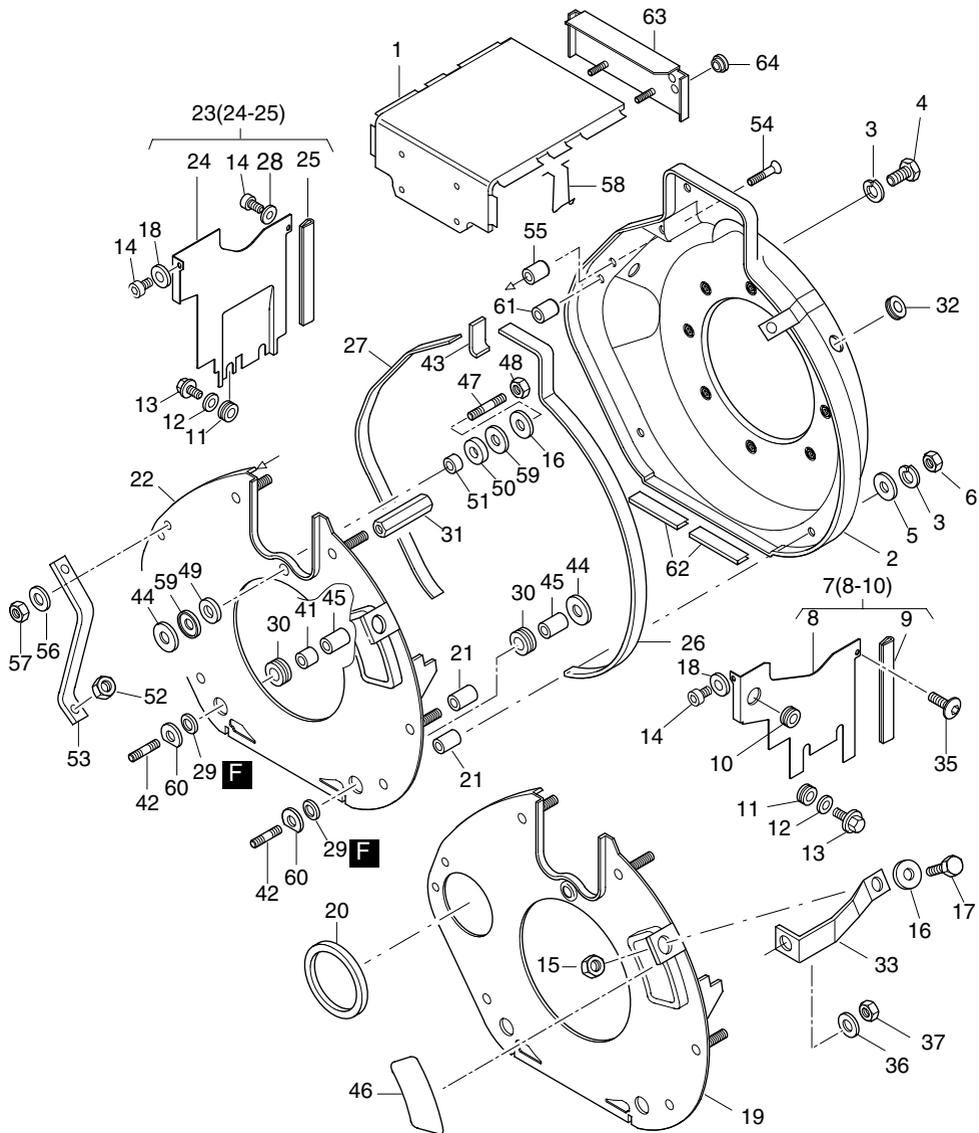


Fig.- No.	HATZ Ident-No.	Stück Qty.	P / W d / D	Bemerkungen Notes
		1B30		
1	01551401	1		
2	01551320	1		
3	50170900	7		6 DIN 128 - A3C
4	50146300	1		M 6 x 18 DIN 933-8.8 A3C
5	50120000	2		A 6,4 DIN 9021-St A3C
6	50144400	6		M 6 DIN 934 - 8 A3C
7	01326300	1		
8	-----	-		
9	05128900	1		80 mm
10	50334800	1		
11	50163801	3		
12	50441600	3		4,3 DIN 9021 - A3C 140HV
13	50445401	3		M 4 x 10 ST A3C
14	50528100	3		M6x16DIN6912-8.8A3C KL360G
15	50144400	1		M 6 DIN 934 - 8 A3C
16	50114300	2		6,4 x 17 x 3 DIN 7349 A3C
17	50177100	1		M 6 x 16 DIN 933-8.8 A3C
18	50144500	2		6,4 DIN 125-St A3C
19	01326810	1		E-Start
20	04099500	1		
21	05197500	4		6,5 x 12 x 20
22	01326710	1		
23	01326200	1		
24	-----	-		
25	04111500	1		119 mm
26	05108100	1		495 mm
27	04124600	1		388 mm
28	04060600	1		6,4 x 16 x 1,5 A3C
29	03575500	2		
30	01378300	2		
31	05198100	1		59 mm
32	50453300	1		
33	01599610	1		
35	50495000	1		M 6 x 12 DIN 7380-10.9 A3C
36	50095100	1		A 8 DIN 137 A3C
37	50344700	1		M 8 DIN 936 - 5 A3C
42	50458100	2		M 6 x 45 DIN 835 - 8.8 A3C
43	05198200	1		48 mm
44	04042000	3		6,5 x 22,5 x 1
45	04098400	2		7 x 12 x 16,3
46	04215000	0... 1		
47	50464401	1		M 6 x 35 DIN 939- 8.8 A3C Tuf.
48	40028300	1		VM 6 DIN 980 C3P
49	05133800	1		16 x 25 x 4
50	05133900	1		16 x 25 x 8

M26b

Luftführung - 1B30
 Air ducting - 1B30
 Carter ventilation - 1B30
 Conducción de aire - 1B30
 Carter ventilatore - 1B30

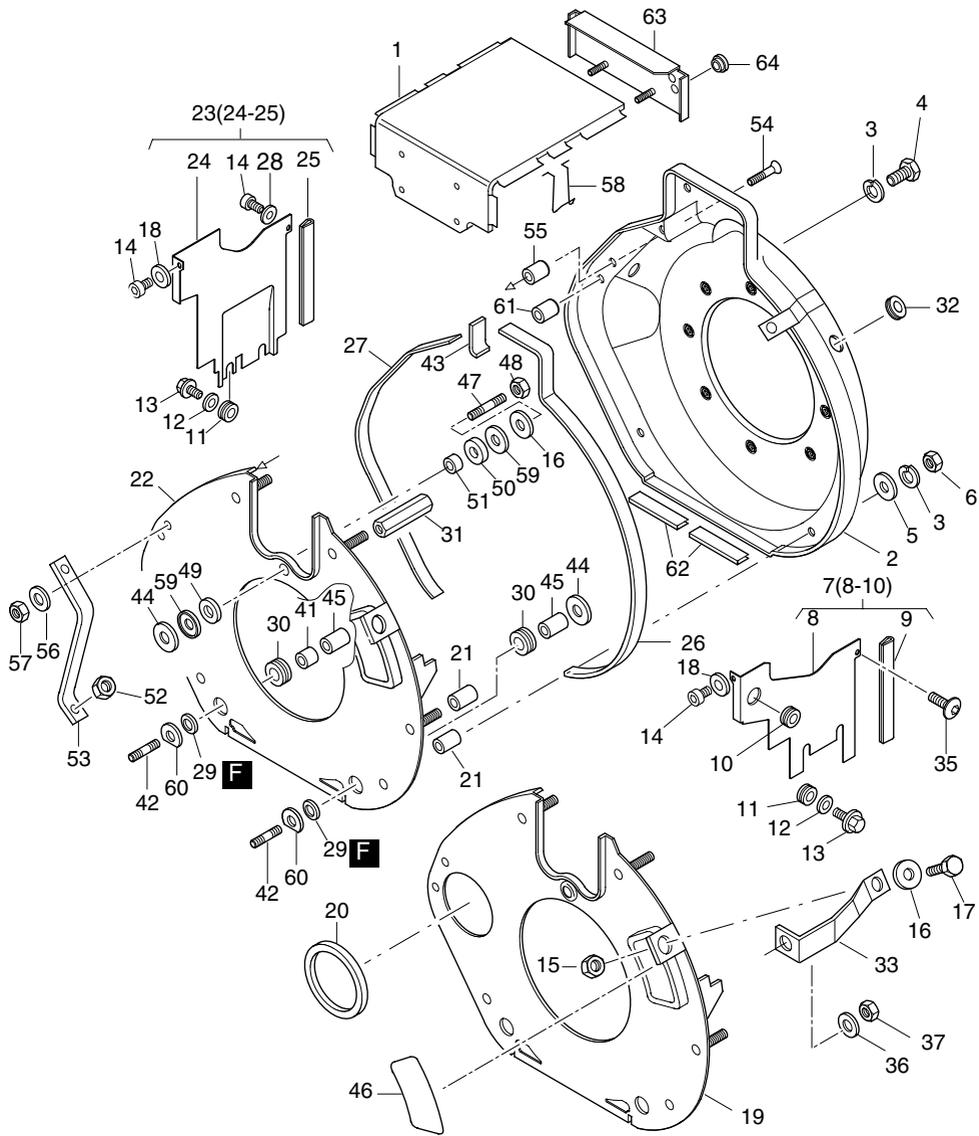


Fig.- No.	HATZ Ident-No.	Stück Qty.	P / W d / D	Bemerkungen Notes
		1B30		
51	05132700	1		6,5 x 17 x 11,5
52	50148000	1		M 8 DIN 934-8 A3C
53	05133001	1		
54	50445000	1		M 6 x 35 DIN 7991 - 8.8 A3C
55	05132810	1		7 x 12 x 18,3
56	50170900	1		6 DIN 128 - A3C
57	50144400	1		M 6 DIN 934 - 8 A3C
58	05145800	1		
59	05097600	2		8,5 - 27
60	04145300	2		
61	04139000	1		6,5 x 12 x 18
62	04162100	2		75 mm
63	01603500	1		
64	50334800	2		

M31

Kurbelgehäuseentlüftung
 Crankcase breathing system
 Reniflard
 Purgador
 Sfiato basamento

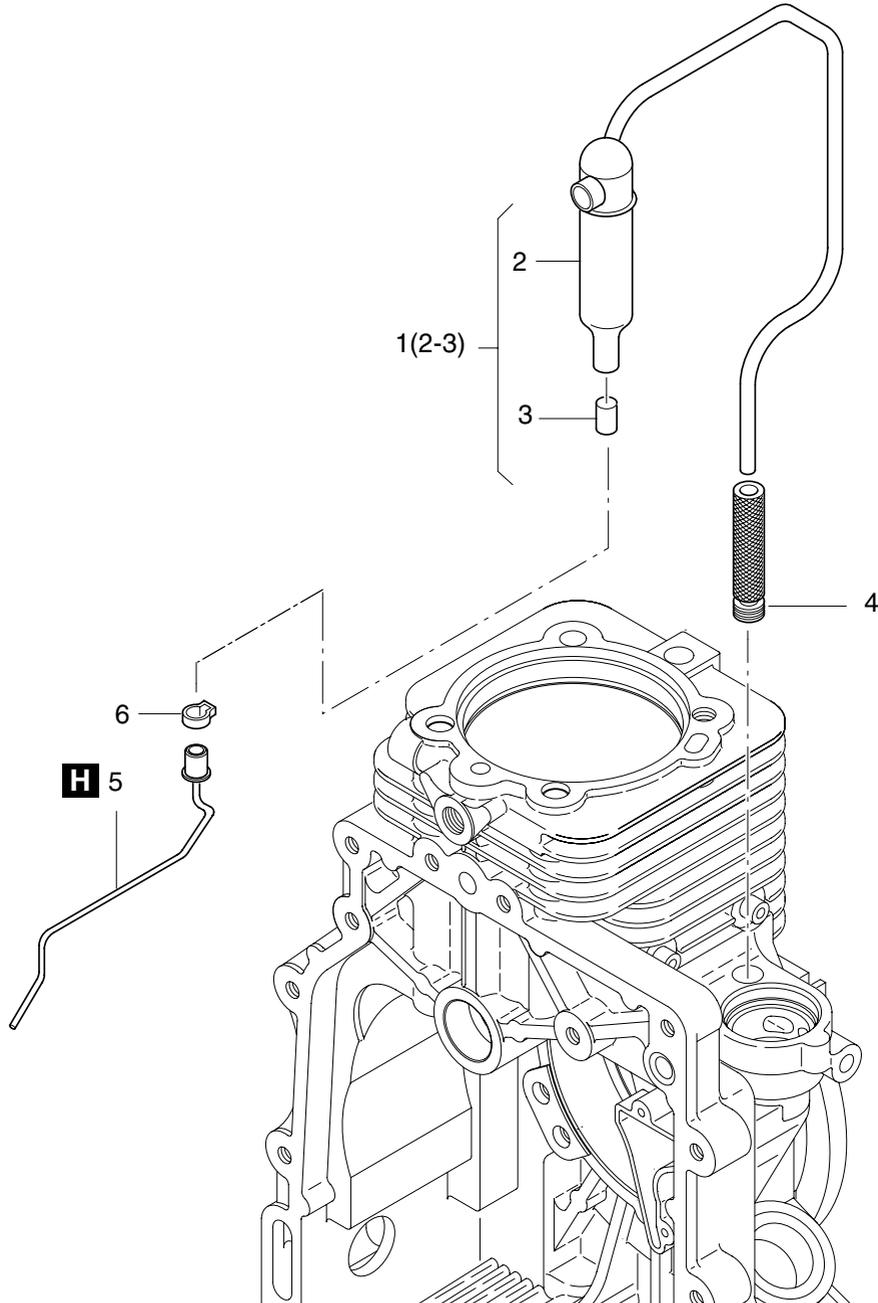


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01556402	1	-		
1	01599201	-	1		
2	-----	-	-		
3	05102900	1	1		Filter, Filtre, Filtro
4	01617900	1	1	D1	
5	01551600	1	1		
6	50456800	1	-		

A01a

Kraftstoff
Fuel
Carburant
Combustible
Serbatoio

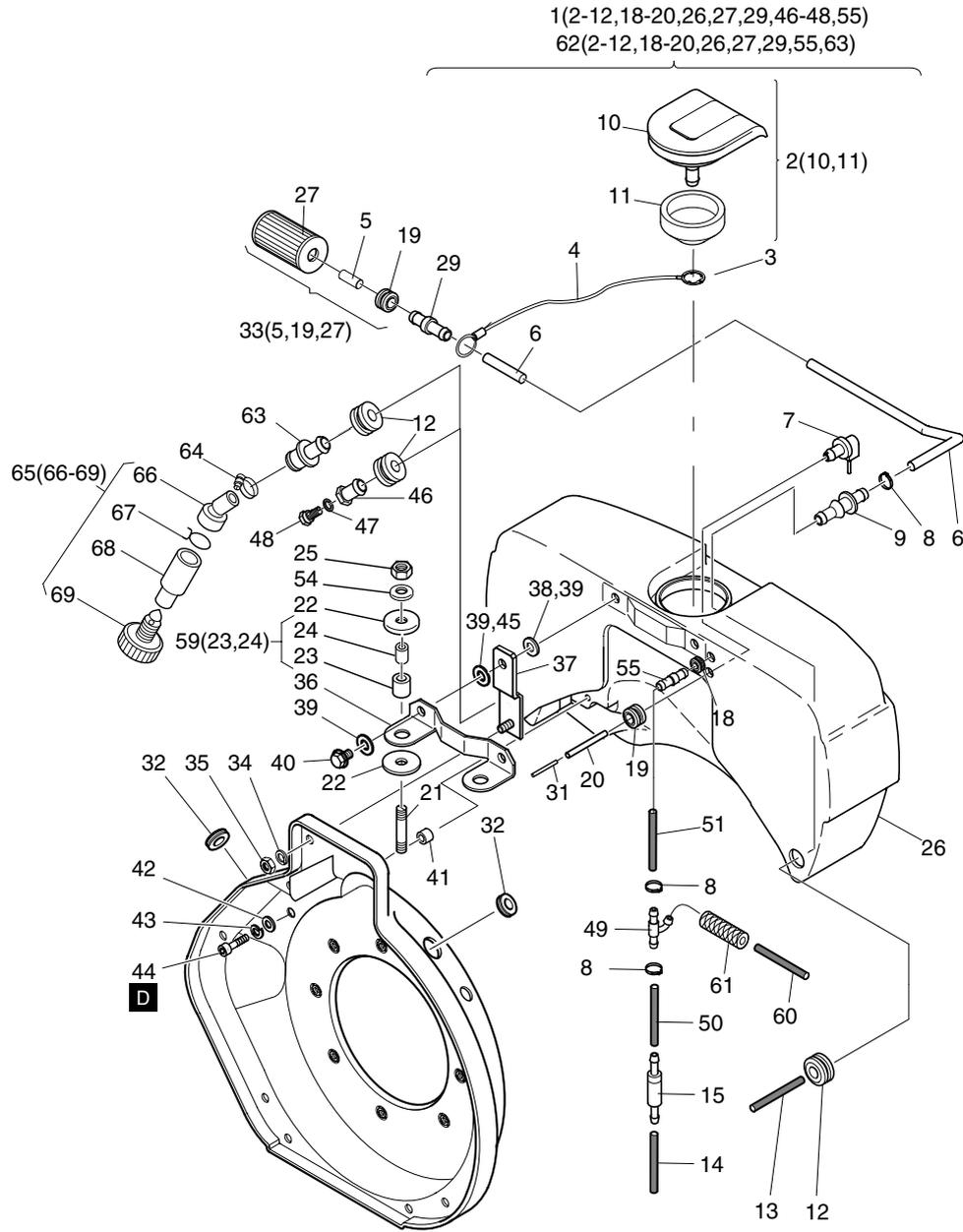


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01578830	1	-		3 l
1	01588620	-	1		5 l
2	01535302	1	1		kpl. cpl.
3	50500800	1	1		8 DIN 6799
4	01628900	1	1		~440mm
5	-----	-	-		
6	05190600	1	-		3,5 x 260
6	05189900	-	1		3,5 x 300
7	01534900	1	1		
8	50399801	3	3		11,3
9	05084010	1	1		
10	-----	-	-		
11	05086401	1	1		
12	50440800	2	2		
13	03962100	1	-		3,5 x 2,5 - 160 mm
13	05188300	-	1		3,5 x 170
14	05123200	1	1		3,5 x 40
15	00805501	1	1		
18	05130400	1	1		
19	50440900	2	2		
20	05085600	1	1		1 x 3 x 85
21	50231900	2	2		M 8 x 25 DIN 835-8.8 A3C
22	05109810	4	4		8,2 x 22 x 2
23	-----	-	-		
24	05122800	2	2		
25	40028400	2	2		VM 8 DIN 980-8 C3A
26	-----	-	-		
27	-----	-	-		
29	05189001	1	1		
31	05085500	1	1		2 x 0,3 x 16
32	05107700	2	-		
33	01635210	1	1	W2	
34	50170900	2	2		6 DIN 128 - A3C
35	50144400	2	2		M 6 DIN 934 - 8 A3C
36	05108511	1	-		
36	05122300	-	1		
37	01331300	2	2		
38	50120000	2	-		A 6,4 DIN 9021-St A3C
39	05110010	4	4		7,1 x 17,9 x 2
40	01557000	2	-		M 6 x 18
40	01677100	-	2		M 6 x 20
41	04118800	2	4		6,5 x 13 x 4,8
42	50144500	2	4		6,4 DIN 125-St A3C
43	50170900	2	4		6 DIN 128 - A3C
44	50170700	2	4		M 6 x 16 DIN 912-8.8 A3C

A01a

Kraftstoff
Fuel
Carburant
Combustible
Serbatoio

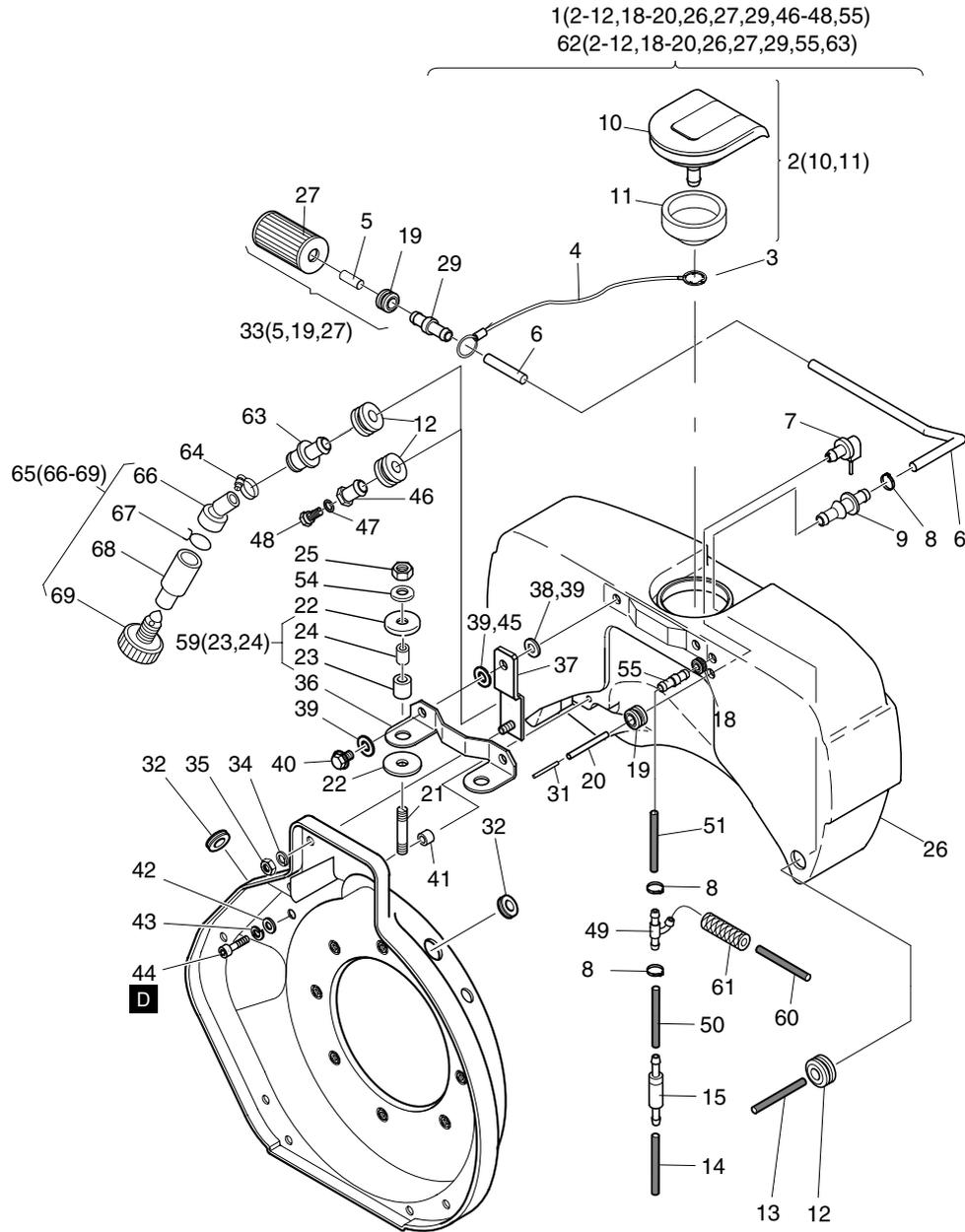


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
45	50114300	-	2		6,4 x 17 x 3 DIN 7349 A3C
46	05235700	1	1		
47	50313100	1	1		A 6 x 10 DIN 7603-Cu.
48	03613600	1	1		M 6 A3C
49	05175601	1	1		
50	05188800	1	-		5 x 120
50	03807100	-	1		5 x 150 mm
51	05136800	1	1		5 x 90
54	50148100	2	2		8,4 DIN 125-St A3C
55	05184400	1	1		
59	01655800	2	2		
60	05215000	1	1		2,5 x 195
61	05213000	1	1		7 x 25
62	01650210	1	-		3 l für Wasserabscheider
62	01666710	-	1		5 l für Wasserabscheider
63	05235800	1	-		
63	05172300	-	1		
64	50448000	1	1		
65	01519402	1	1		
66	05044001	1	1		
67	05036900	1	1		
68	05043901	1	1		
69	50414800	1	1		M 10

A01b

Kraftstoff
Fuel
Carburant
Combustible
Serbatoio

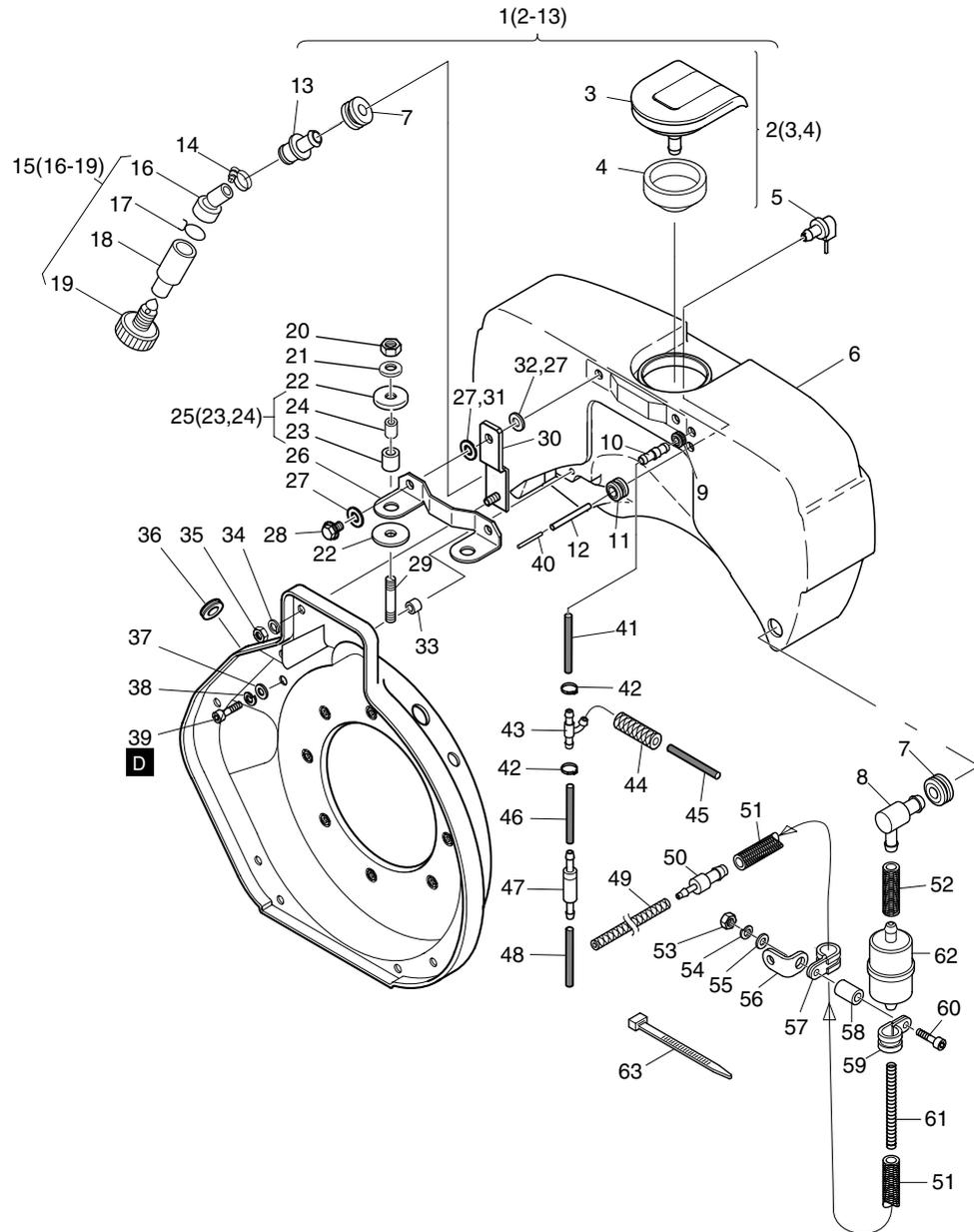


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01703100	1	-		3 l
1	01703200	-	1		5 l
2	01535302	1	1		kpl. cpl.
3	-----	-	-		
4	05086401	1	1		
5	01534900	1	1		
6	-----	-	-		
7	50440800	2	2		
8	01684010	1	1		
9	05130400	1	1		
10	05184400	1	1		
11	50440901	1	1		
12	05085600	1	1		1 x 3 x 85
13	05235800	1	-		
13	05172300	-	1		
14	50448000	1	1		
15	01519402	1	1		
16	05044001	1	1		
17	05036900	1	1		
18	05043901	1	1		
19	50414800	1	1		M 10
20	40028400	2	2		VM 8 DIN 980-8 C3A
21	50148100	2	2		8,4 DIN 125-St A3C
22	05109810	4	4		8,2 x 22 x 2
23	-----	-	-		
24	05122800	2	2		
25	01655800	2	2		
26	05108511	1	-		
26	05122300	-	1		
27	05110010	4	4		7,1 x 17,9 x 2
28	01557000	2	-		M 6 x 18
28	01677100	-	2		M 6 x 20
29	50231900	2	2		M 8 x 25 DIN 835-8.8 A3C
30	01331300	2	2		
31	50114300	-	2		6,4 x 17 x 3 DIN 7349 A3C
32	50120000	2	-		A 6,4 DIN 9021-St A3C
33	04118800	2	4		6,5 x 13 x 4,8
34	50170900	2	2		6 DIN 128 - A3C
35	50144400	2	2		M 6 DIN 934 - 8 A3C
36	05107700	2	-		
37	50144500	2	4		6,4 DIN 125-St A3C
38	50170900	2	4		6 DIN 128 - A3C
39	50170700	2	4		M 6 x 16 DIN 912-8.8 A3C
40	05085500	1	1		2 x 0,3 x 16
41	05136800	1	1		5 x 90

A01b

Kraftstoff
Fuel
Carburant
Combustible
Serbatoio

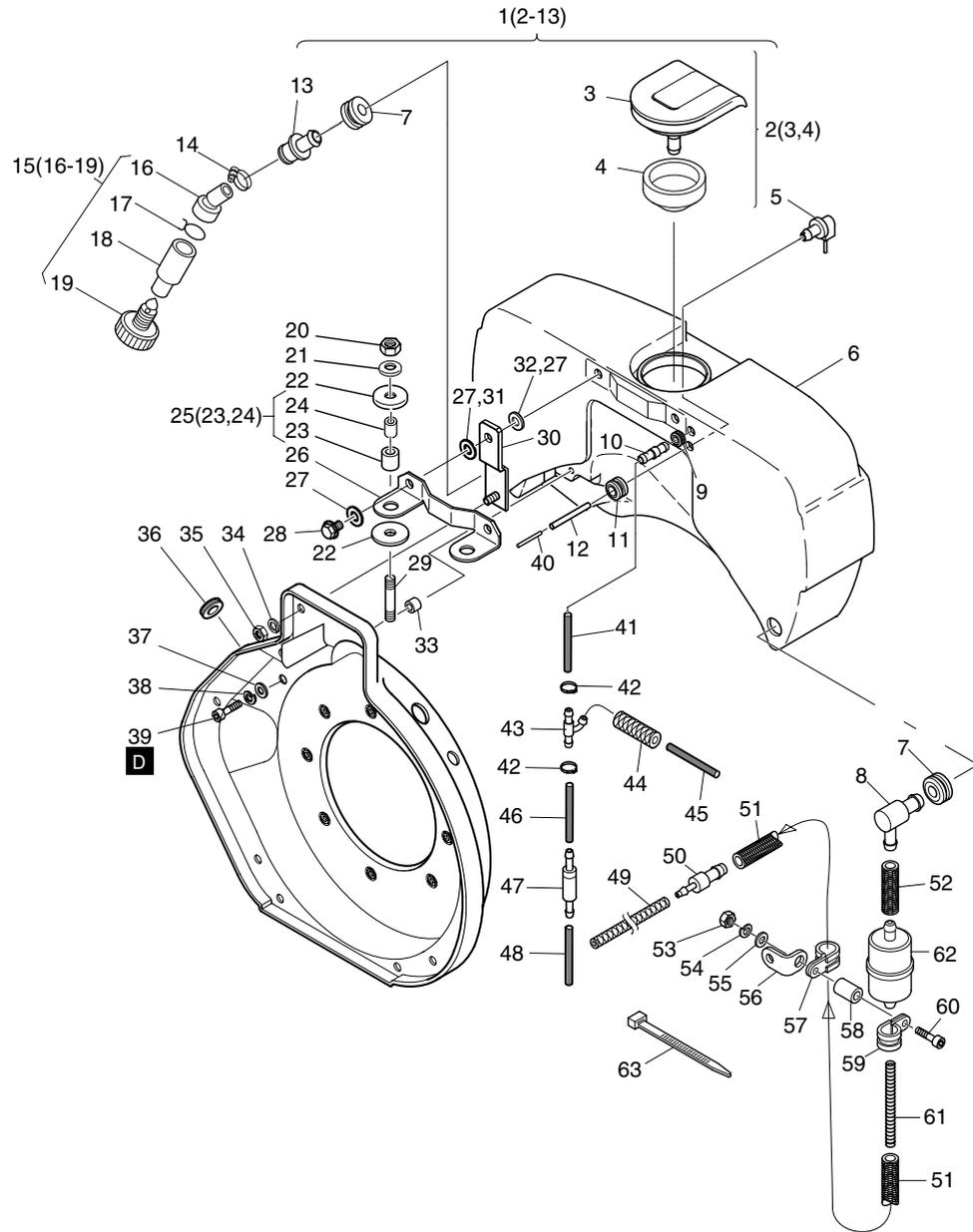


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
42	50399801	2	2		11,3
43	05175601	1	1		
44	05213000	1	1		7 x 25
45	05215000	1	1		2,5 x 195
46	05188800	1	-		5 x 120
46	03807100	-	1		5 x 150 mm
47	00805501	1	1		
48	05123200	1	1		3,5 x 40
49	03962100	1	-		3,5 x 2,5 - 160 mm
49	05188300	-	1		3,5 x 170
50	50503300	1	1		
51	03805100	1	-		7 x 250
51	03493200	-	1		7 x 280
52	05206700	1	1		7 x 40
53	50144400	1	1		M 6 DIN 934 - 8 A3C
54	50170900	1	1		6 DIN 128 - A3C
55	50144500	1	1		6,4 DIN 125-St A3C
56	03543900	1	1		
57	50173500	1	1		10 / 15
58	04139000	1	1		6,5 x 12 x 18
59	50158400	1	1		14 / 15
60	50182700	1	1		M 6 x 40 DIN 912-8.8 A3C
61	03210601	1	1		
62	50478800	1	1		Filter
63	50358400	2	2		200 x 4,8 mm

A01c

Kraftstoff - Doppelfilter
 Fuel
 Carburant
 Combustible
 Serbatoio

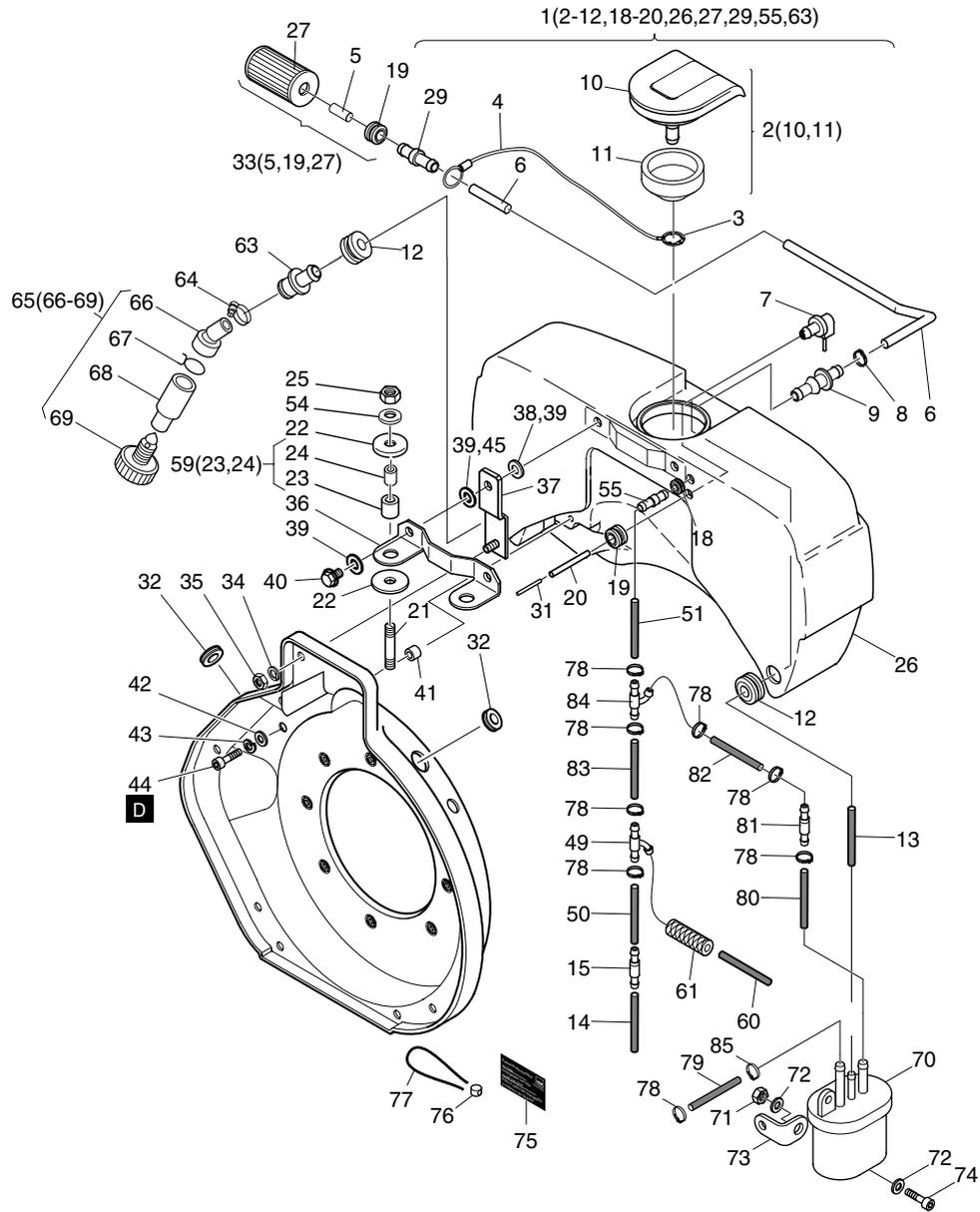


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01650210	1	-		3 l für Wasserabscheider
1	01666710	-	1		5 l für Wasserabscheider
2	01535302	1	1		kpl. cpl.
3	50500800	1	1		8 DIN 6799
4	01628900	1	1		~440mm
5	-----	-	-		
6	05190600	1	-		3,5 x 260
6	05189900	-	1		3,5 x 300
7	01534900	1	1		
8	50399801	1	1		11,3
9	05084010	1	1		
10	-----	-	-		
11	05086401	1	1		
12	50440800	2	2		
13	05190600	1	-		3,5 x 260
13	05189900	-	1		3,5 x 300
14	05123200	1	1		3,5 x 40
15	00805501	1	1		
18	05130400	1	1		
19	50440901	2	2		
20	05085600	1	1		1 x 3 x 85
21	50231900	2	2		M 8 x 25 DIN 835-8.8 A3C
22	05109810	4	4		8,2 x 22 x 2
23	-----	-	-		
24	05122800	2	2		
25	40028400	2	2		VM 8 DIN 980-8 C3A
26	-----	-	-		
27	-----	-	-		
29	05189001	1	1		
31	05085500	1	1		2 x 0,3 x 16
32	05107700	2	-		
33	01635210	1	1	W2	
34	50170900	2	2		6 DIN 128 - A3C
35	50144400	2	2		M 6 DIN 934 - 8 A3C
36	05108511	1	-		
36	05122300	-	1		
37	01331300	2	2		
38	50120000	2	-		A 6,4 DIN 9021-St A3C
39	05110010	4	4		7,1 x 17,9 x 2
40	01557000	2	-		M 6 x 18
40	01677100	-	2		M 6 x 20
41	04118800	2	4		6,5 x 13 x 4,8
42	50144500	2	4		6,4 DIN 125-St A3C
43	50170900	2	4		6 DIN 128 - A3C
44	50170700	2	4		M 6 x 16 DIN 912-8.8 A3C

A01c

Kraftstoff - Doppelfilter
 Fuel
 Carburant
 Combustible
 Serbatoio

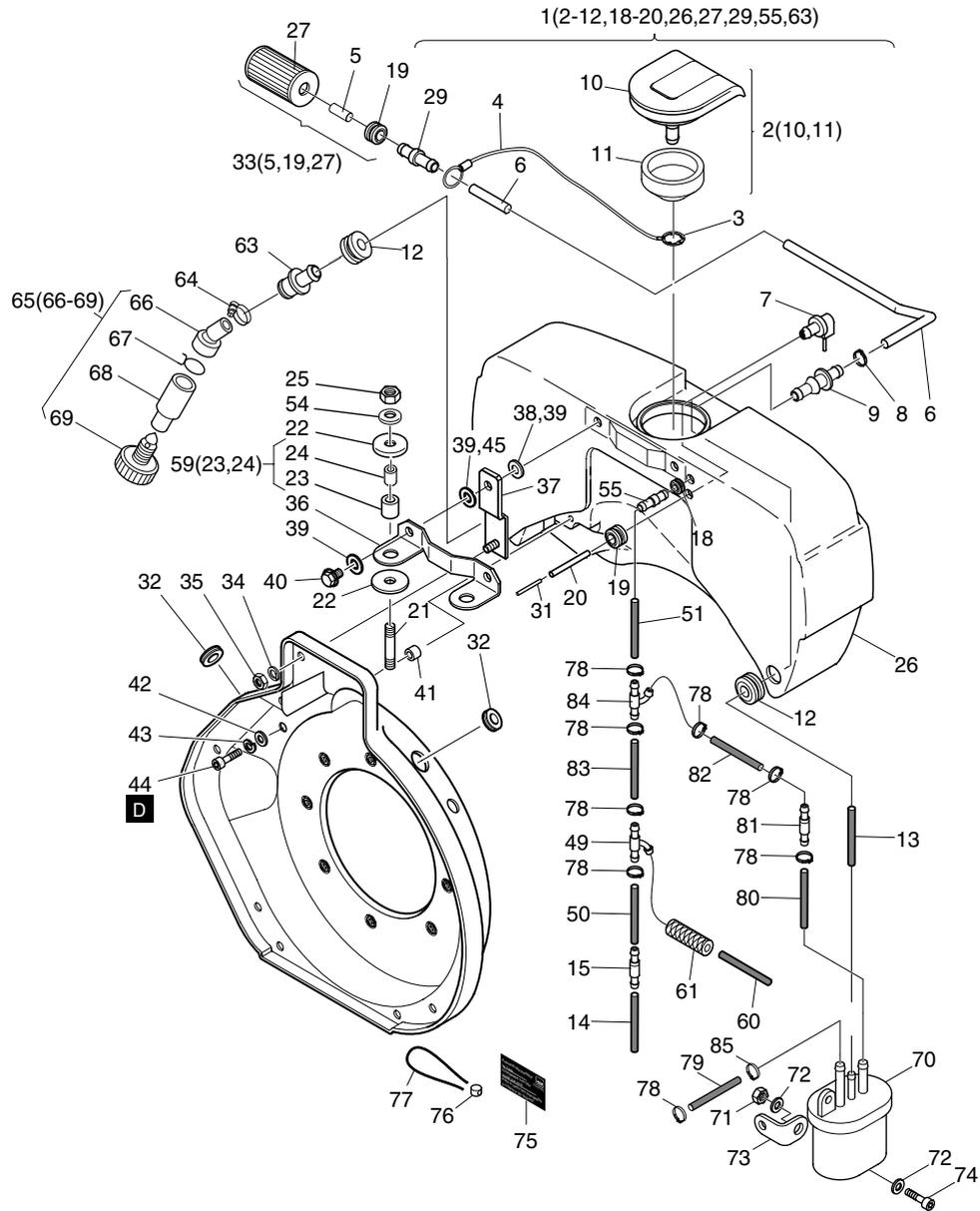


Fig.- No.	HATZ Ident-No.	Stück Qty.	P / W d / D	Bemerkungen Notes
		1B20	1B30	
45	50114300	-	2	6,4 x 17 x 3 DIN 7349 A3C
49	05175601	1	1	
50	05188800	1	-	5 x 120
50	03807100	-	1	5 x 150 mm
51	03663800	1	-	5 x 40 mm
51	03663700	-	1	5 x 50 mm
54	50148100	2	2	8,4 DIN 125-St A3C
55	05184400	1	1	
59	01655800	2	2	
60	05215000	1	1	2,5 x 195
61	05213000	1	1	7 x 25
63	05235800	1	-	
63	05172300	-	1	
64	50448000	1	1	
65	01519402	1	1	
66	05044001	1	1	
67	05036900	1	1	
68	05043901	1	1	
69	50414800	1	1	M 10
70	50539200	1	1	
71	50328300	1	1	VM 6 DIN 980-8 A3C
72	50120000	2	2	A 6,4 DIN 9021-St A3C
73	03543900	1	1	
74	50323800	1	1	M6 x 16 DIN 6912-8.8 A3C
75	05259301	1	1	
76	40021400	1	1	8 mm ø
77	40021500	1	1	0,5 / 0,3 x 200
78	50399801	8	8	11,3
79	05238300	1	1	5 x 220
80	03881600	1	-	5 x 200
80	05238300	-	1	5 x 220
81	01534600	1	1	
82	03663700	1	1	5 x 50 mm
83	03663800	1	1	5 x 40 mm
84	05122701	1	1	
85	50441100	1	1	11,8-505R

A02b

Luftfilter für Stampfermotor 1B20
 Air filter for tamper engine 1B20
 Filtre à air pour moteur de pilonneuse 1B20
 Filtro de aire p. motor de pisón 1B20
 Filtro aria p. motori costipatore verticale 1B20

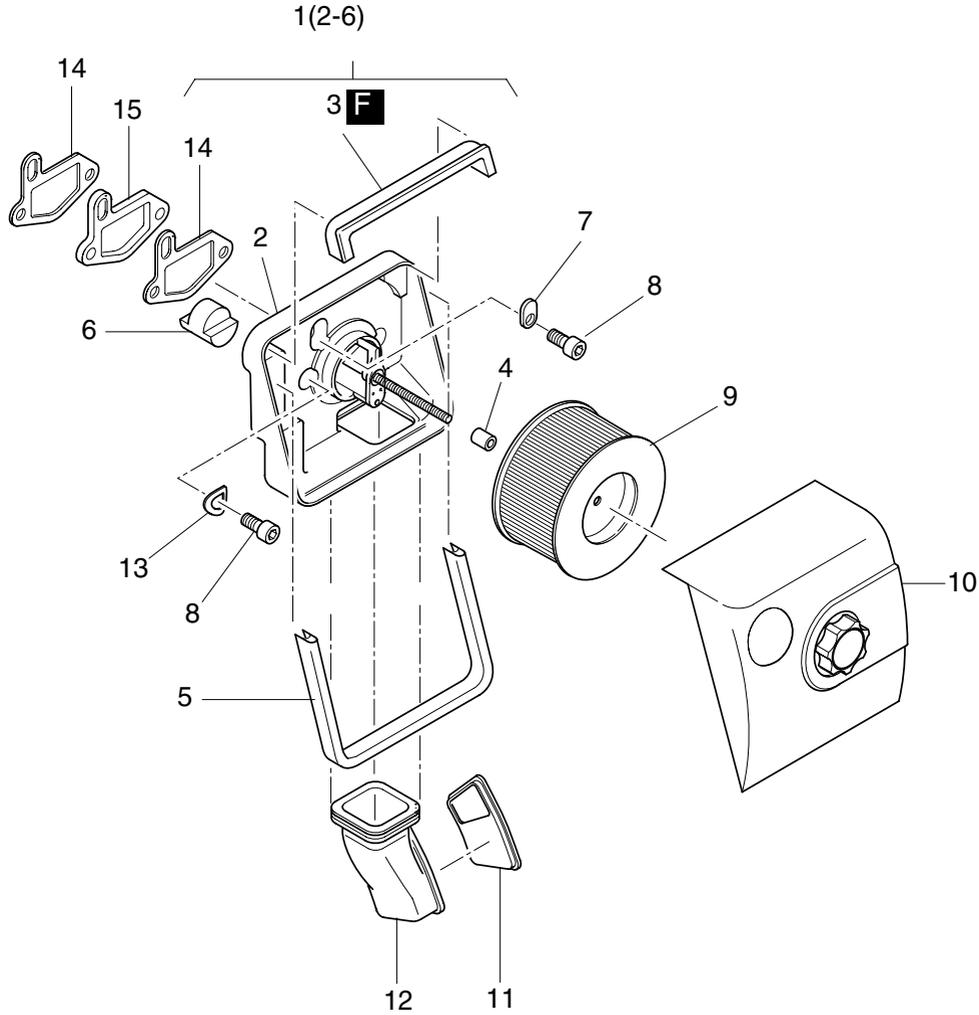


Fig.- No.	HATZ Ident-No.	Stück Qty.	P / W d / D	Bemerkungen Notes
		1B20		
1	01695600	1		
2	-----	-		
3	05082900	1		
4	05149600	1		12 mm
5	05056100	1		365 mm
6	05098100	1		
7	05056400	1		
8	50171500	3		M 8 x 25 DIN 912-8.8 A3C
9	50469000	1		
10	01746800	1		
11	04104200	1		
12	04103000	1		
13	50095100	2		A 8 DIN 137 A3C
14	05056300	2	d2	
15	01600300	1		

A03a

Abgasdämpfer - 1B20
 Exhaust silencer - 1B20
 Silencieux - 1B20
 Silenciador - 1B20
 Marmitta - 1B20

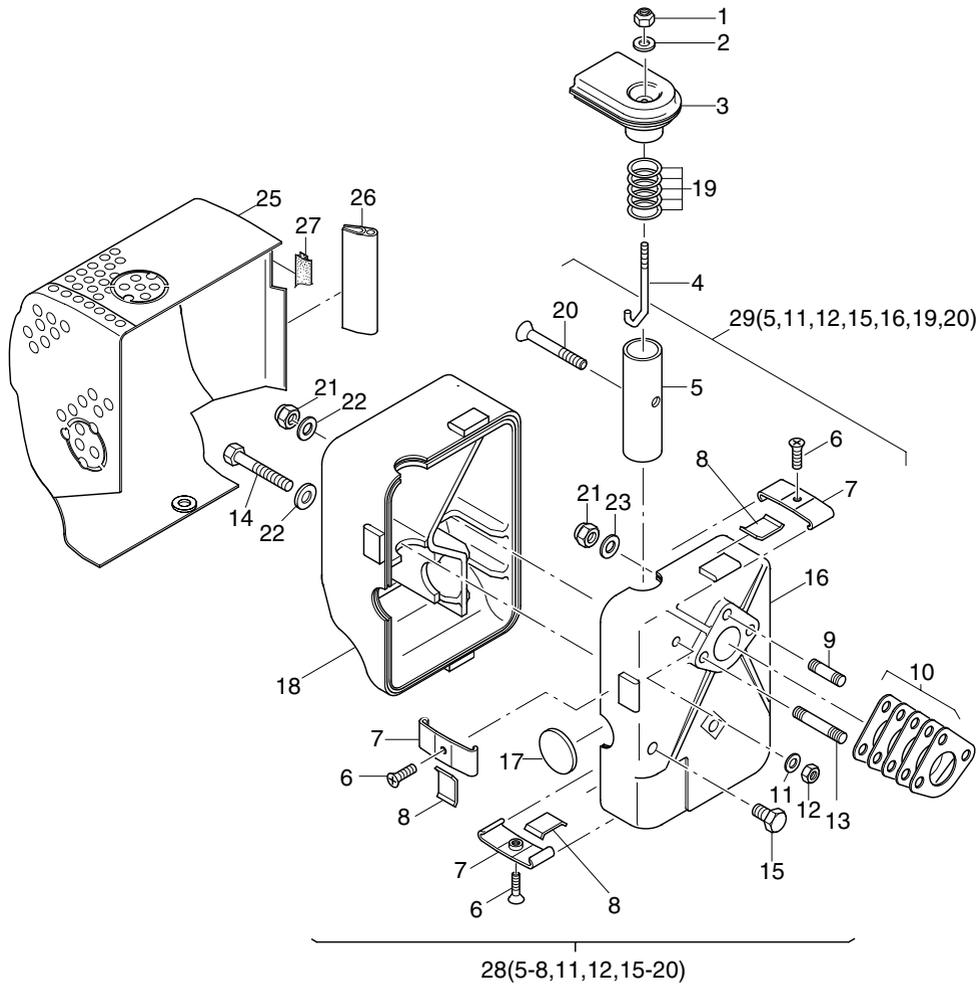


Fig.- No.	HATZ Ident-No.	Stück Qty.	P / W d / D	Bemerkungen Notes
		1B20		
1	40028300	1		VM 6 DIN 980 C3P
2	50144500	1		6,4 DIN 125-St A3C
3	01531312	1		
4	05081101	1		M 6
5	05081410	1		
6	50422500	3		M 6 x 12 DIN 7991 - 8.8 A3C
7	01531201	3		
8	05081611	3		
9	50128100	2		M 8 x 30 DIN 835 - 10.9 A3C
10	01732500	1	d1	
11	50144500	1		6,4 DIN 125-St A3C
12	40028300	1		VM 6 DIN 980 C3P
13	50039500	1		M 8 x 110 DIN 835 - 8.8 A3C
14	50028800	1		M 8 x 90 DIN 931 - 8.8 A3C
15	50450500	1		M 8 x 12 DIN 7500 - D A3A
16	-----	-		
17	05081002	1		
18	-----	-		
19	05127000	5		28,1 x 34 x 0,5
20	50445000	1		M 6 x 35 DIN 7991 - 8.8 A3C
21	40028400	3		VM 8 DIN 980-8 C3A
22	50148100	2		8,4 DIN 125-St A3C
23	04054300	2		8,4 x 21 x 3
25	01532301	1		
26	05100300	1		65 mm
27	05135000	1		33 mm
28	01531105	1		
29	01597700	1		

A03b

Abgasdämpfer für Stampfermotor 1B20
 Exhaust silencer for tamper engine 1B20
 Silencieux pour moteur de pilonneuse 1B20
 Silenciador p. motor de pisón 1B20
 Marmitta p. motori costipatore verticale 1B20

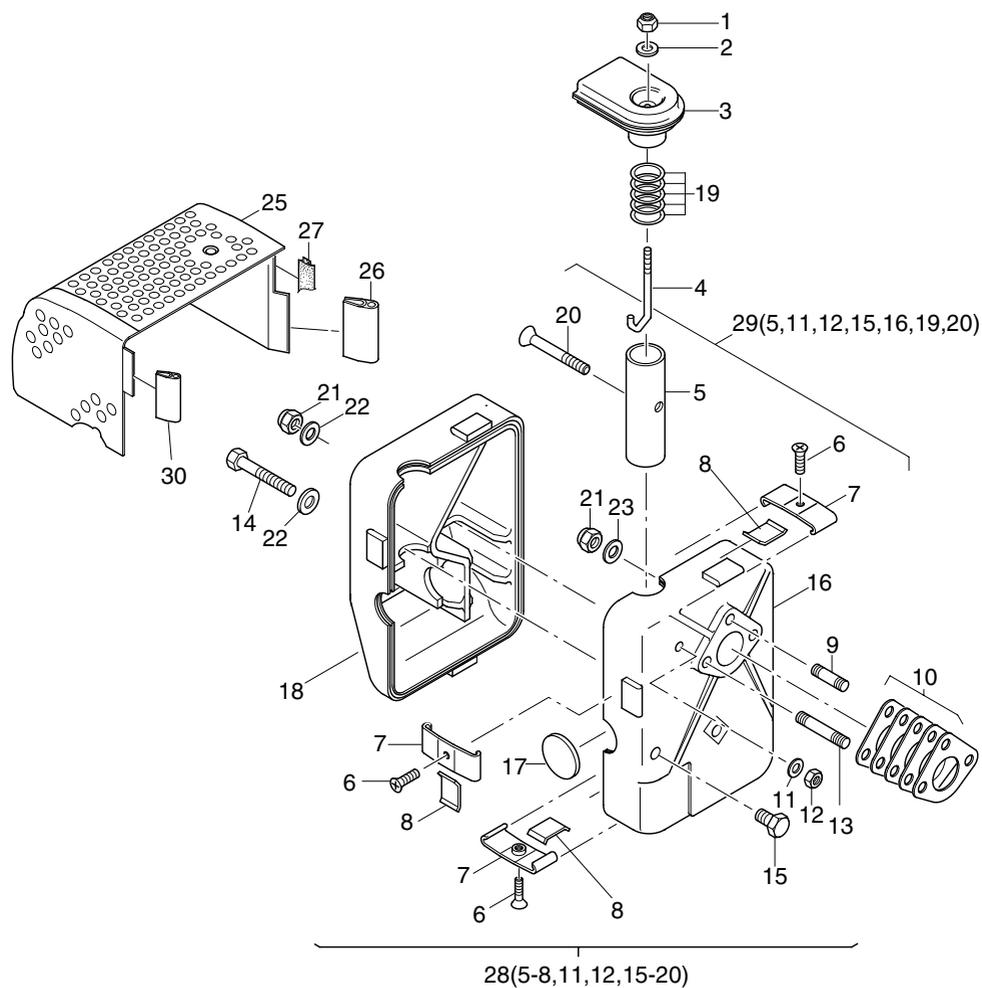


Fig.- No.	HATZ Ident-No.	Stück Qty.	P / W d / D	Bemerkungen Notes
		1B20		
1	40028300	1		VM 6 DIN 980 C3P
2	50144500	1		6,4 DIN 125-St A3C
3	01531312	1		
4	05081101	1		M 6
5	05081410	1		
6	50422500	3		M 6 x 12 DIN 7991 - 8.8 A3C
7	01531201	3		
8	05081611	3		
9	50128100	2		M 8 x 30 DIN 835 - 10.9 A3C
10	01732500	1	d1	
11	50144500	1		6,4 DIN 125-St A3C
12	40028300	1		VM 6 DIN 980 C3P
13	50065100	1		M 8 x 85 DIN 835-8.8 A3C
14	50028500	1		M 8 x 65 DIN 931 - 8.8 A3C
15	50450500	1		M 8 x 12 DIN 7500 - D A3A
16	-----	-		
17	05081002	1		
18	-----	-		
19	05127000	5		28,1 x 34 x 0,5
20	50445000	1		M 6 x 35 DIN 7991 - 8.8 A3C
21	40028400	3		VM 8 DIN 980-8 C3A
22	50148100	2		8,4 DIN 125-St A3C
23	04054300	2		8,4 x 21 x 3
25	01590600	1		
26	05100300	1		65 mm
27	05135000	1		33 mm
28	01746700	1		
29	01597700	1		
30	04123400	1		38 mm

A03c

Abgasdämpfer - 1B30
 Exhaust silencer - 1B30
 Silencieux - 1B30
 Silenciador - 1B30
 Marmitta - 1B30

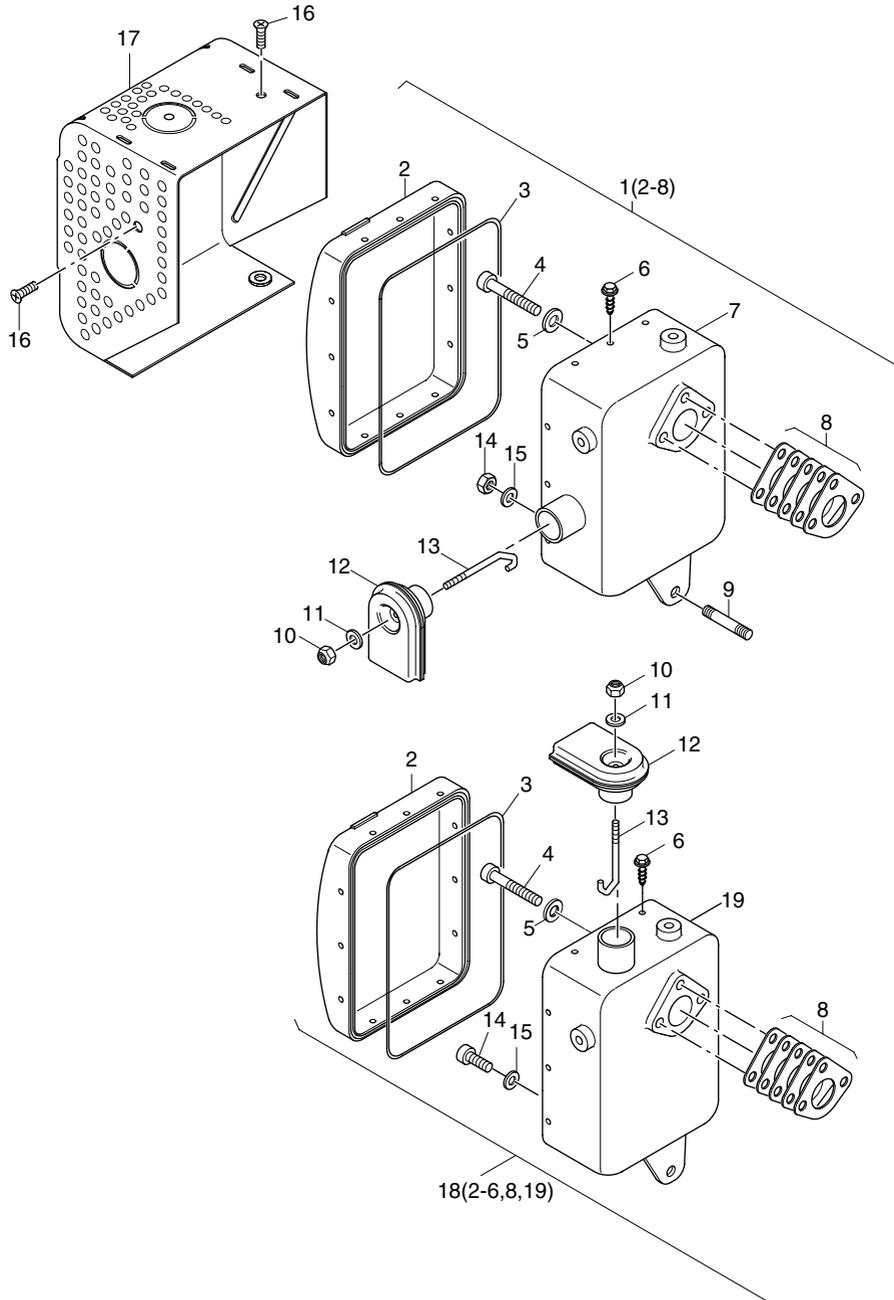


Fig.- No.	HATZ Ident-No.	Stück Qty.	P / W d / D	Bemerkungen Notes
		1B30		
1	01685800	1		
2	-----	-		
3	05199700	1		650 mm
4	50404000	3		M 8 x 30 DIN 912-8.8 C4P
5	04054300	3		8,4 x 21 x 3
6	50487200	12		4,8 x 13
7	-----	-		
8	01732600	1	d1	
9	50504100	1		M 6 x 16 DIN 835-8.8 A3C
10	40028300	1		VM 6 DIN 980 C3P
11	50144500	1		6,4 DIN 125-St A3C
12	01531312	1		
13	05081101	1		M 6
14	40028300	1		VM 6 DIN 980 C3P
15	50114300	1		6,4 x 17 x 3 DIN 7349 A3C
16	50422500	2		M 6 x 12 DIN 7991 - 8.8 A3C
17	01645703	1		
18	01712600	1		
19	-----	-		

A05a

Starter, Generator
 Starter, alternator
 Démarreur, alternateur
 Arrancador, alternador
 Motorino avviamento, alternatore

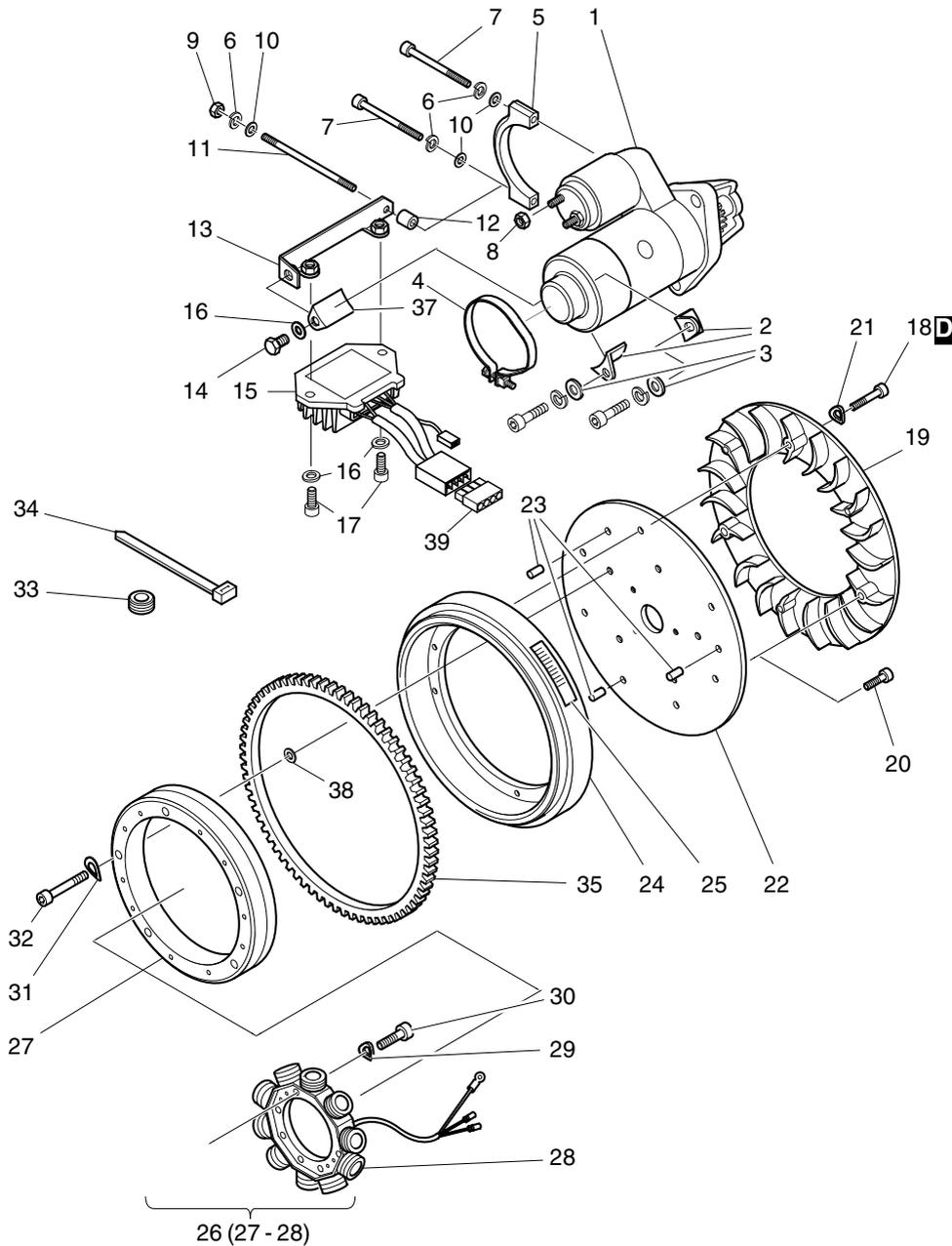


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01723400	1	1		12 V - 1,0 kW
1	50483300	1	1		24 V - 1,6 kW
2	04138400	2	2		
3	50148100	2	2		8,4 DIN 125-St A3C
4	50529800	1	1		
5	04099100	1	1		
6	50170900	2	2		6 DIN 128 - A3C
7	50444300	2	2		M 6 x 80 DIN 912 - 8.8 A3C
8	50023200	1	1		BM8 DIN 439 - 5 A3C
9	50144400	1	1		M 6 DIN 934 - 8 A3C
10	50144500	2	2		6,4 DIN 125-St A3C
11	50455900	1	1		MFS 6x90 DIN 949 - 1 8.8 A3C
12	03671400	1	1		7 x 12 x 15
13	01560900	1	1		
14	50096200	1	1		M 8 x 12 DIN 933 - 8.8 A3C
15	05100701	1	1		12 V
15	01425023	1	1		24 V
16	50148100	3	3		8,4 DIN 125-St A3C
17	50165400	2	2		M 8 x 16 DIN 912-8.8 A3C
18	50327300	6	6		M 4 x 20 DIN 912 - 8.8 A3C
19	04193700	1	-		
19	04193600	-	1		
20	50416800	3	3		M 6 x 16 DIN 912 - 8.8 A3C Tuf.
21	50003400	6	6		A 4 DIN 137 - ST
22	04098720	1	1		
23	50035200	3	3		6 x 12 DIN 1481 55 Si 7
24	04098230	1	-		
24	04110120	-	1		
25	04117200	1	-		„E-Start“ OT
25	04117400	-	1		„E-Start“ OT
26	50435901	1	1		12 V
26	01580000	1	1		24 V / 12V o. BATT.
27	-----	-	-		
28	-----	-	-		
29	50081900	4	4		A 5 DIN 137 A3C
30	50547000	4	4		M 5 x 25 DIN 912 - 8.8 A3C Tuf.
31	50081200	5	5		A6 DIN 137 - A3C
32	50448700	5	5		M 6 x 30 DIN 6912-8.8 A3C
33	03565400	1	-		
34	50358400	3	3		200 x 4,8 mm
35	04098600	1	-		
35	04108000	-	1		
37	04138400	1	1		
38	50114300	5	5		6,4 x 17 x 3 DIN 7349 A3C
39	50402100	1	1		4-P.

A05b, A10

Armaturen, Leitungen
 Electric equipment, wirings
 Equipement électrique, cable
 Cuadro de mando, cables
 Cruscotto, cablaggio

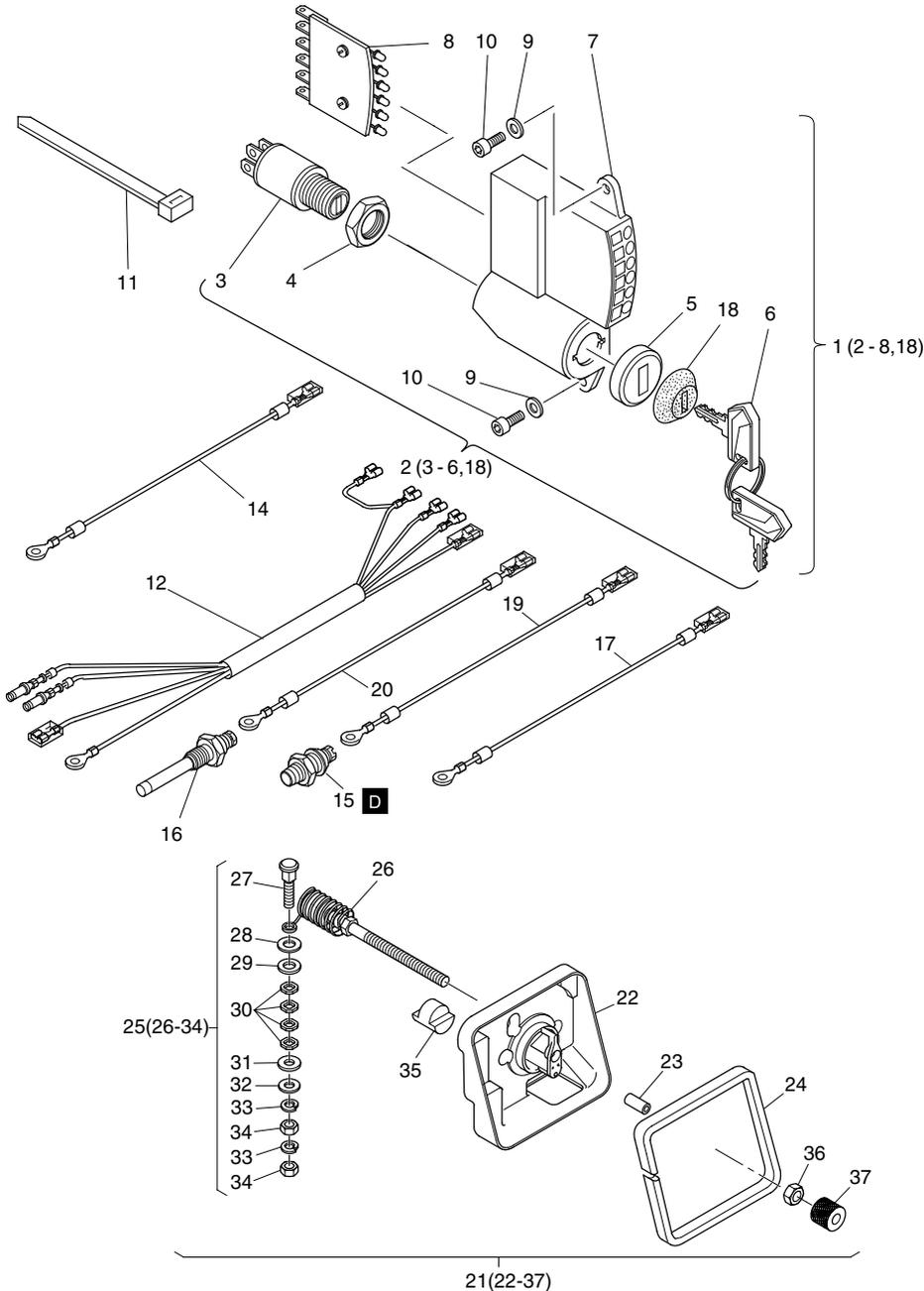


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01560802	1	1		
2	50384401	1	1		
3	-----	-	-		
4	-----	-	-		
5	-----	-	-		
6	50404900	1	1		Nr. 14644
7	-----	-	-		
8	-----	-	-		
9	50144500	2	2		6,4 DIN 125-St A3C
10	50149100	2	2		M 6 x 12 DIN 912-8.8 A3C
11	50358400	2	2		200 x 4,8 mm
12	01785100	1	1		
14	01546800	1	1		(0) Masse
15	40021300	1	-		Oil
15	50469100	-	1		Oil
16	50268600	1	1		TEMP. 12-24V
17	01715200	1	1		(6) 400 mm
18	05126402	1	1		
19	01546500	1	1		(4)
20	01546900	1	1		(5)
21	01607810	1	1		12V
21	01745400	1	1		24V
22	-----	-	-		
23	04119200	1	1		6,5 x 13 x 15
24	05216100	1	1		545 mm
25	01755000	1	1		12V
25	01755100	1	1		24V
26	-----	-	-		
27	05040100	1	1		
28	50144500	1	1		6,4 DIN 125-St A3C
29	50412801	1	1		6,5
30	50412600	4	4		
31	50412700	1	1		
32	50216300	1	1		5,3 DIN 125-St A3C
33	50002600	2	2		5 DIN 128 - A3C
34	50094300	2	2		M 5 DIN 934-8 A3C
35	05098100	1	1		
36	50144400	1	1		M 6 DIN 934 - 8 A3C
37	05149600	1	1		12 mm
38	01762200	1	1		12V
38	01762300	1	1		24V
39	05147100	1	1		(schwarz, black, noir)
40	05147200	1	1		(rot, red, rouge)

A09a

Drehzahlverstellung
 Speed control
 Réglage régime
 Ajuste de revoluciones
 Comando acceleratore

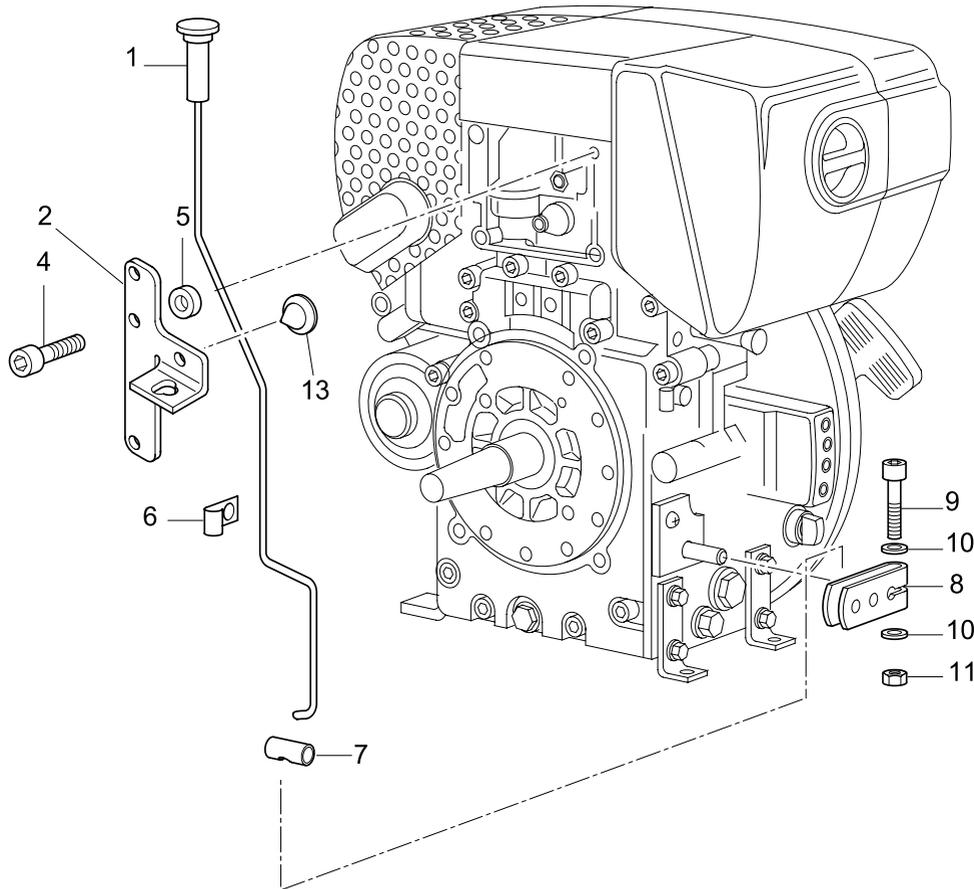
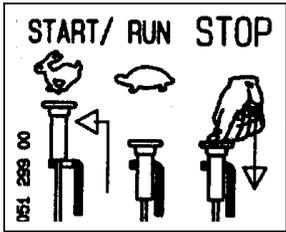


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	01575121	1	1		
2	05141102	1	1		
3	-----	-	-		
4	50462900	2	2		M 6 x 20 DIN 6912 - 8.8 A3C
5	03354600	2	2		7 x 12 x 8
6	05124600	1	1		
7	05118500	1	1		
8	05117700	1	1		
9	50511900	1	1		M 5 x 30 DIN 912 - 8.8 A3C
10	50216300	2	2		5,3 DIN 125-St A3C
11	50094300	1	1		M 5 DIN 934-8 A3C
12	05129900	1	1		
13	50482900	1	1		

A09b

Drehzahlverstellung für Bowdenzug
 Speed control for bowdencable
 Reglage regime pour câble bowden
 Ajuste de revoluciones para cable bowden
 Comando acceleratore per bowden

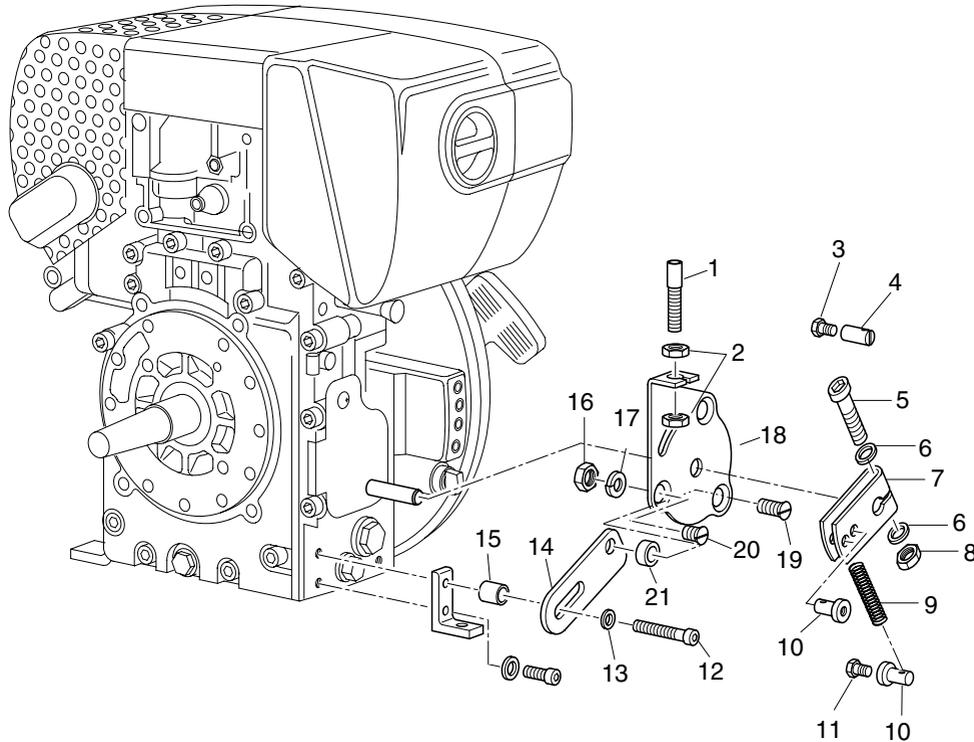


Fig.- No.	HATZ Ident-No.	Stück Qty.		P / W d / D	Bemerkungen Notes
		1B20	1B30		
1	05141200	1	1		M 6
2	50144400	2	2		M 6 DIN 934 - 8 A3C
3	50025000	1	1		M 4 x 10 DIN 933-8.8 A3C
4	50483000	1	1		2,2 NR. 1120
5	50511900	1	1		M 5 x 30 DIN 912 - 8.8 A3C
6	50216300	2	2		5,3 DIN 125-St A3C
7	05117700	1	1		
8	50094300	1	1		M 5 DIN 934-8 A3C
9	50484600	1	1		VD-179 E
10	50483100	2	2		2,2 NR. 1450
11	50025000	1	1		M 4 x 10 DIN 933-8.8 A3C
12	50248800	1	1		M 8 x 60 DIN 912 - 8.8 A3C
13	50148100	1	1		8,4 DIN 125-St A3C
14	05117500	1	1		
15	03520600	1	1		9 x 14 x 20
16	50328300	1	1		VM 6 DIN 980-8 A3C
17	50208500	1	1		8 DIN 128 A3C
18	05117610	1	1		
19	50423900	1	1		M 6 x 20 DIN 7991-10.9 A3C
20	50380800	1	1		M 6 x 10 DIN 7991 -8.8 A3C
21	03292900	1	1		8,2 x 11 x 12

Serien-Nr.-Änderungen
Serial-code modification list
Modification des Nos de serien
Modificación de los Nos de serie
Modifica dei codici

IMT-No.

1B20.10	1B20.11	97.566
1B20.11	1B20.12	97.567
1B20.12	1B20.13	97.568
1B20.13	1B20.14	97.569
1B20.14	1B20.15	98.573
1B20.15	1B20.16	98.574
1B20.16	1B20.17	98.575
1B20.17	1B20.18	98.576
1B20.18	1B20.19	98.577
1B20.19	1B20.20	98.580
1B20.20	1B20.21	99.588
1B20.21	1B20.22	00.590
1B20.22	1B20.23	00.594
1B20.23	1B20.24	00.598
1B20.24	1B20.25	00.601
1B20.25	1B20.26	01.613
1B20.26	1B20.27	02.617
1B20.27	1B20.28	02.619
1B30.10	1B30.11	98.573
1B30.11	1B30.12	98.575
1B30.12	1B30.13	98.576
1B30.13	1B30.14	98.577
1B30.14	1B30.15	98.580
1B30.15	1B30.16	99.585
1B30.16	1B30.17	99.586
1B30.17	1B30.18	99.589
1B30.18	1B30.19	00.598
1B30.19	1B30.20	00.606
1B30.20	1B30.21	00.607
1B30.21	1B30.22	01.613
1B30.22	1B30.23	02.617