

ж.	Part No. 10 01 050 10 07 050	X K o o	Description	Q.
	10 01 050			
<del></del>	10 07 050	l	four-speed gear box with rear axle drive	-
	10 07 050		Gear box housing	
	00 00 00	_	gear box housing	
4	77 03 302	8	stud M 8×15-5 S pho.black	ო
	10-13-500 99-33-408	m ⊿	dowel pin	
	99 42 120	. rv	cylinder pin 6 m 6×20	. ,-
	99 37 220	9	plug 12 pho	_
	99 37 240	_	plug 16 pho	7
	10 13 502	∞ -	nylon plug for bore of reverse gear shaft	_
X			Gear box housing cover	
	10 13 052	٥.	gear box housing cover	-
	10 13 507.	2	lock pin	-
	99 41 310	E	tensioner for lock pin	-
		-		
			For gear box housing cover to gear box housing	
	10 13 510	12	gasket	_
9	99 31 046	13	:	4
	99 12 302	7		7
	99 12 335	5	hex. screw M 6×50-8 G pho.black	8
-	3		Sealings of gear box housing and cover	\$2 •
	10 13 514	9	seal for speedometer drive in gear box housing 10.X.22.X.7	_
	99 63 208	12	seal C 5×9 steel-asbestos	_
Ş	99 13 205	8	screw A	_
	10 13 518	19	ring for selector shaft in gear box housing cover	
-			For oil filler of agar box housing cover	
	730 67 00	5	2000	-
41 TV	99 19 250	3 5	plug screw AM 22×1,5—6.5 pho.black.	
-				

10 = Gear Box

0 = Gear Box	Вох	Plo	Plate 3	
'art No.	Z Key	Description	Qty.	w
		For oil drain of gear box housing	8	
19 63 242	22	seal C 14×20 steel-asbestos	_	
19 63 259	22	seal C 16×20 steel-asbestos (for plug 00 07 108)		
10 07 104	23	plug screw M 14×1,5	- <u> </u>	:
90 10 00	23	plug screw M 14×1,5, 0,1 mm oversize	_	
801 70 00	83	plug screw M 16×1,5 (replacement for part No. 00 07 106		
		in case thread is torn off)	_	١.
				-
i		Drive shaft		K
10 21 050	24	drive shaft	-	
981 226	ĸ	ball bearing 6205 C3	8	
30 38 198	78	shim (thickness as req.) for ball bearing	_	
0 21 531	27	spur gear 3rd speed	-	
0 21 534	78	spur gear 4th speed	-	14
79 51 480	23	woodruff key for spur gears 3rd and 4th speed to drive shaft	8	
		120		
, se		Reversegear		
10 51 504	8	reverse gear shaft	<b>-</b>	_
10 51 050	က	sliding gear for reverse speed	_	
10 51 509	32	bushing for sliding gear	_	*
			9	
		Output shaft	54	
10 61 060	æ	output shaft with crown wheel	-	·
		Output shaft support in gear box housing		Yu:
99 81 432	8	ballbearing 6305 C3	_	
10 31 503	35	stop washer	-	ě.

Part No.         Key         Description         Ohy           99 82 473         36         bearing 3306 X         1           1031 506         37         spacer         1           1031 506         38         washer         1           1031 507         39         supporting ring         1           1031 508         39         supporting ring         1           1031 509         40         lock plate         1           1031 520         41         hex. nut M 8x1-45 phoblack.         4           1031 528         43         spur gear 14 speed         1           1031 528         44         spur gear 3d speed         1           1031 538         45         bushing 14 speed         1           1031 588         46         bushing 3d and 3d speed         1           1031 588         50         stop washer bit and 2d speed         1           1031 588         50         stop washer bit and 2d speed         1           1031 588         50         stop washer bit and 2d speed         1           1031 557         54         stiding sleeve 3d and 4ff speed         1           1031 557         54         stiding pleeve 3d and 4ff speed <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th></t<>						
473       36       bearing 3306 X         506       37       spacer         509       38       spacer         509       38       supporting ring         512       39       supporting ring         515       40       lock plate         520       42       spur gear 14* speed         524       43       spur gear 14* speed         525       44       spur gear 3d* speed         526       45       spur gear 14* speed         527       spur gear 44* speed       spur gear 44* speed         528       47       bushing 14* speed         531       bushing 2nd and 3nd speed         54       bushing 14* speed         55       stop washer between needle cages 2nd and 3nd speed         55       stop washer between needle cages 2nd and 3nd speed         55       stuide sleeve 3nd and 4nh speed         55       stilding sleeve 3nd and 4nh speed         55       spring for ball         55       spring for ball         56       syndromesh ring         57       syndromesh ring         57       carrier gear         57       shellical gear		Part No.	Key No.	Description	Ωħγ.	
36         bearring 3306 X           506         37           507         spacer           508         washer           512         39           39         supporting ring           516         40           41         hex. nut M 8x1—6 S pho.black.           520         spur gear 1st speed           521         spur gear 1st speed           522         spur gear 1st speed           523         spur gear 4th speed           524         spur gear 4th speed           525         bushing 1st speed           526         bushing 4th speed           527         bushing 2nd and 3rd speed           528         54           54         bushing 4th speed           55         stop washer between needle cages 2nd and 3rd speed           55         suide sleeve 1st and 2nd speed           55         guide sleeve 1st and 2nd speed           55         stiding sleeve 1st and 2nd speed           56         stiding sleeve 3rd and 4th speed           56         stiding piece for guide sleeve           56         stiding piece for guide sleeve           56         stiding piece for guide sleeve           56	<u> </u>			Output shaft support in rear axle drive housing	4	
506         37         spacer           509         38         washer           516         40         lock plate           516         41         hex. nut M 8x1—65 pho.black.           520         42         spur gear 1st speed           524         43         spur gear 1st speed           525         spur gear 3rd speed           526         bushing 1st speed           527         bushing 4st speed           528         47           529         bushing 4st speed           520         spur gear 4st speed           521         bushing 4st speed           522         spur gear 4st speed           523         spur gear 4st speed           524         bushing 4st speed           525         stop washer between needle cages 2nd and 3rd speed           526         stop washer between needle cages 2nd and 3rd speed           527         spuide sleeve 1st and 2nd speed           528         spiding sleeve 1st and 2nd speed           525         stiding sleeve 3rd and 4st speed           526         stiding sleeve 3rd and 4st speed           527         spiding for ball           528         spiding for ball           5		99 82 473	38	bearing 3306 X	-	
509         38         washer           512         39         supporting ring           60         plate            60         41         hex. nut M 8x1—6 S phoblack.           520         42         spur gear 2nd speed           524         43         spur gear 2nd speed           528         44         spur gear 3nd speed           528         45         spur gear 4th speed           535         46         bushing 1st speed           538         47         bushing 2nd and 3rd speed           539         47         bushing 4th speed           530         stop washer between needle cages 2nd and 4th speed           550         stop washer between needle cages 2nd and 3rd speed           550         stop washer between 1st and 2nd speed           550         stop washer 1st and 2nd speed           550         stop washer 1st and 2nd speed           550         stop washer 1st and 2nd speed           550         stiding sleeve 1st and 2nd speed           550         stilding sleeve 1st and 2nd speed           550         string for ball           550         string for ball           550         string for ball           551 </td <th></th> <td>10 31 506</td> <td>37</td> <td>spacer</td> <td>_</td> <td></td>		10 31 506	37	spacer	_	
Signature   Sign		10 31 509	æ	washer	_	
10   10   10   10   10   10   10   10	27	1031512	33	supporting ring	_	
994       41       hex. nut M 8×1-6 S pho.black.         520       42       spur gear 1st speed         521       43       spur gear 1st speed         522       44       spur gear 4st speed         53       44       spur gear 4st speed         53       45       bushing 1st speed         53       47       bushing 1st speed         50       48       bushing 4st speed         50       49       needle cage for 1st, 2nd, 3rd and 4th speed         55       stop washer between needle cages 2nd and 3rd speed         55       guide sleeve 1st and 2nd speed         56       sliding sleeve 1st and 2nd speed         55       sliding sleeve 1st and 2nd speed         56       sliding sleeve 3rd and 4th speed         56       sliding sleeve 1st and 2nd speed         56       spring for ball         57       spring for ball         58       spring for ball         59       spring for ball </td <th></th> <td>10 31 516</td> <td>40</td> <td>lock plate</td> <td>_</td> <td></td>		10 31 516	40	lock plate	_	
520       42       spur gear 1** speed         524       43       spur gear 1** speed         526       44       spur gear 2** speed         500       45       spur gear 4** speed         535       46       bushing 1** speed         538       47       bushing 1** speed         539       49       heedle cage for 1**, 2**nd, 3**d and 4** speed         550       51       guide sleeve 1** and 2**nd speed         553       52       guide sleeve 1** and 4** speed         550       53       guide sleeve 1** and 4** speed         550       54       sliding sleeve 1** and 4** speed         550       55       sliding sleeve 1** and 4** speed         550       55       sliding sleeve 1** and 4** speed         550       55       sliding sleeve 1** and 4** speed         550       56       sliding sleeve 1** and 4** speed         550       57       spring for ball         550       58       syndhromesh ring         550       carrier gear         551       helical gear		99 22 094	4	nut M 8×1-6S	4	
520       42       spur gear 1st speed         528       43       spur gear 2nd speed         500       45       spur gear 3nd speed         501       45       bushing 1st speed         535       46       bushing 2nd and 3nd speed         501       48       bushing 4h speed         501       49       needle cage for 1st, 2nd, 3rd and 4th speed         560       51       guide sleeve 1st and 2nd speed         550       51       guide sleeve 1st and 2nd speed         550       53       woodruff key 6x7,5 st. for guide sleeve         550       55       sliding sleeve 1st and 2nd speed         550       55       sliding sleeve 1st and 2nd speed         56       55       sliding sleeve 3nd and 4th speed         56       55       sliding piece for guide sleeve         56       57       spring for ball         56       57       synchromesh ring         56       59       synchromesh ring         50       carrier gear         50       carrier gear				Gear wheels, bushings and needle cages	523	
524       43       spur gear 2nd speed         528       44       spur gear 3nd speed         500       45       spur gear 4th speed         535       46       bushing 1st speed         538       47       bushing 2nd and 3rd speed         501       48       bushing 4th speed         502       49       bushing 4th speed         585       59       stop washer between needle cages 2nd and 4th speed         550       51       guide sleeve 1st and 2nd speed         507       53       woodruff key 6x7,5 st. for guide sleeve         550       54       sliding sleeve 1st and 2nd speed         550       55       sliding sleeve 1st and 2nd speed         56       55       sliding piece for guide sleeve         56       55       spring for ball         56       59       syndromesh ring         56       59       syndromesh ring         50       carrier gear         50       slidical gear			42		_	
528       44       spur gear 3rd speed         500       45       spur gear 4th speed         535       46       bushing 1st speed         538       47       bushing 2nd and 3rd speed         501       48       bushing 4th speed         585       49       needle cage for 1st, 2nd, 3rd and 4th speed         586       50       stop washer between needle cages 2nd and 3rd speed         550       51       guide sleeve 1st and 2nd speed         550       Suiding sleeve 3rd and 4th speed         550       54       sliding sleeve 1st and 2nd speed         550       55       sliding sleeve 3rd and 4th speed         560       55       sliding piece for guide sleeve         560       57       spring for ball         55       spring for ball       syndromesh ring         56       59       syndromesh ring         57       syndromesh ring         58       60         59       carrier gear			<b>£</b>		_	
500       45       spur gear 4th speed         535       46       bushing 1st speed         538       47       bushing 2nd and 3rd speed         501       48       bushing 4th speed         585       49       needle cage for 1st, 2nd, 3rd and 4th speed         586       50       stop washer between needle cages 2nd and 3rd speed         550       51       guide sleeve 1st and 2nd speed         553       52       guide sleeve 3rd and 4th speed         557       54       sliding sleeve 1st and 2nd speed         550       55       sliding sleeve 3rd and 4th speed         560       55       sliding sleeve 3rd and 4th speed         560       55       spring for ball         560       55       spring for ball         560       57       spring for ball         560       59       synchromesh ring         575       60       carrier gear         575       60       carrier gear			4		_	
535       46       bushing 1st speed          538       47       bushing 2nd and 3rd speed          601       48       bushing 4th speed          585       49       needle cage for 1st, 2nd, 3rd and 4th speed          588       50       stop washer between needle cages 2nd and 3rd speed          553       52       guide sleeve 1st and 2nd speed          550       53       woodruff key 6x7,5 st. for guide sleeve          550       54       sliding sleeve 1st and 2nd speed          550       55       sliding sleeve 1st and 2nd speed          550       55       sliding piece for guide sleeve          56       57       spring for ball          55       synchromesh ring          57       sondmeter drive         57       60       carrier gear         57       61       helical gear			\$		7	
538       47       bushing 2nd and 3rd speed         501       48       bushing 4th speed         585       49       needle cage for 1st, 2nd, 3rd and 4th speed         588       50       stop washer between needle cages 2nd and 3rd speed         550       51       guide sleeve 1st and 2nd speed         557       53       woodruff key 6×7,5 st. for guide sleeve         550       55       sliding sleeve 3rd and 4th speed         550       55       sliding sleeve 3rd and 4th speed         560       55       sliding piece for guide sleeve         560       57       spring for ball         560       58       ball 1¼* Ill         560       59       syndhromesh ring         560       59       syndhromesh ring         560       carrier gear       speedometer drive         575       60       carrier gear			4	bushing 1st speed	_	
601       48       bushing 4th speed         585       49       needle cage for 1st, 2nd, 3rd and 4th speed         588       50       stop washer between needle cages 2nd and 3rd speed         550       51       guide sleeve 1st and 2nd speed         553       52       guide sleeve 1st and 2nd speed         557       53       woodruff key 6x7,5 st. for guide sleeve         550       55       sliding sleeve 1st and 2nd speed         550       55       sliding piece for guide sleeve         560       55       spring for ball         569       57       spring for ball         560       58       ball 1¼* Ill         560       59       synchromesh ring         560       59       carrier gear         57       60       carrier gear			4	bushing 2nd and 3rd speed	7	
585       49       needle cage for 1st, 2nd, 3rd and 4th speed         588       50       stop washer between needle cages 2nd and 3rd speed         550       51       guide sleeve 1st and 2nd speed         553       52       guide sleeve 1st and 2nd speed         507       53       woodruff key 6x7,5 st. for guide sleeve         557       54       sliding sleeve 1st and 2nd speed         550       55       sliding piece for guide sleeve         560       55       sliding piece for guide sleeve         563       56       spring for ball         559       58       ball 1/4" Ill         550       59       synchromesh ring         550       carrier gear         575       60         576       carrier gear			84	4th speed	_	
588       50       stop washer between needle cages 2nd and 3rd speed         550       51       guide sleeve 1st and 2nd speed         553       52       guide sleeve 3rd and 4th speed         557       53       woodruff key 6x7,5 st. for guide sleeve         557       54       sliding sleeve 1st and 2nd speed         560       55       sliding piece for guide sleeve         563       56       sliding piece for guide sleeve         569       57       spring for ball         559       synchromesh ring         566       59         57       speedometer drive         575       60         560       carrier gear		10 31 585	49	and 4th speed	4	
550       51       guide sleeve 1st and 2nd speed         553       52       guide sleeve 3rd and 4th speed         557       54       sliding sleeve 1st and 2nd speed         550       55       sliding sleeve 1st and 2nd speed         550       55       sliding sleeve 3rd and 4th speed         560       55       sliding piece for guide sleeve         563       56       spring for ball         569       57       spring for ball         560       synchromesh ring         575       60         560       carrier gear         577       61         61       helical gear		10 31 588	20	stop washer between needle cages 2nd and 3rd speed	_	
550       51       guide sleeve 1st and 2nd speed         553       52       guide sleeve 3rd and 4th speed         707       53       woodruff key 6x7,5 st. for guide sleeve         557       54       sliding sleeve 1st and 2nd speed         560       55       sliding piece for guide sleeve         563       56       sliding piece for guide sleeve         569       57       spring for ball         559       synchromesh ring         566       59         570       synchromest ring         575       60         560       carrier gear         577       61         61       helical gear				Synchronization of gear box		
553       52       guide sleeve 3rd and 4th speed         707       53       woodruff key 6×7,5 st. for guide sleeve         557       54       sliding sleeve 1st and 2nd speed         560       55       sliding piece for guide sleeve         563       56       sliding piece for guide sleeve         569       57       spring for ball         559       58       ball 1/4" Ill         566       59       synchromesh ring         575       60       carrier gear         577       61       helical gear		10 31 550	51	guide sleeve 1st and 2nd speed	7	<del>, ,</del>
707       53       woodruff key 6×7,5 st. for guide sleeve         557       54       sliding sleeve 1st and 2nd speed         560       55       sliding plece for guide sleeve         563       56       sliding plece for guide sleeve         569       57       spring for ball         259       58       ball ¼" Ill         566       59       synchromesh ring         575       60       carrier gear         577       61       helical gear		10 31 553	25	guide sleeve 3rd and 4th speed		
557 54 sliding sleeve 1st and 2nd speed 560 55 sliding sleeve 3rd and 4th speed 563 56 sliding piece for guide sleeve 569 57 spring for ball 559 58 ball 1/4" Ill 566 59 synchromesh ring 575 60 carrier gear 579 61 helical gear		20 16 202	23	woodruff key 6X7,5 st. for guide sleeve	8	_
560       55       sliding sleeve 3rd and 4th speed         563       56       sliding piece for guide sleeve         569       57       spring for ball         559       58       ball 1/4" Ill         566       59       synchromesh ring         575       60       carrier gear         577       61       helical gear		10 31 557	54	sliding sleeve 1st and 2nd speed	<u>-</u>	_
563       56 sliding piece for guide sleeve       6         569       57 spring for ball       6         259       58 ball ¼* III       6         566       59 synchromesh ring       4         55       Speedometer drive       4         575       60 carrier gear       1         579       61 helical gear       1		10 31 560	22	sleeve 3rd and 4th	<u>}</u>	₹
569       57       spring for ball       6         259       58       ball ¼* III       6         566       59       synchromesh ring       4         Speedometer drive       575       60       carrier gear       1         579       61       helical gear       1		10 31 563	28	piece for		
259       58       ball 1/4" III       6         566       59       synchromesh ring       4         Speedometer drive       575       60       carrier gear       1         579       61       helical gear       1		10 31 569	22	spring for ball	, ,	
566         59 synchromesh ring           Speedometer drive         575         60 carrier gear           579         61 helical gear         61 helical gear		99 86 259	28	ball 1/4" III		
575 60 679	_	33	29		4	
575 60 579 61						
575         60         carrier           579         61         helical				Speedometer drive	į	
579 61 helical		10 31 575	99		-	-
		10 31 579	19		_	

Plate 3

10 = Gear Box

Z 6 7		,	
	Description	ģ.	
For	carrier gear to output shaft		
wood caste split	woodruff key 4×6,5 st.         st.           castellated nut M 14×1,5—6 S pho.black.         split pin 3×28 st.		lete socialis
For bush	For helical gear to housing bushing for speedometer cable	<b>4-</b> °	I Hamain a
ž E	nex. screw tor bushing	-	and the state of t
sele	selector shaft	-	70
sele	selector fingerselector finger		*10****
sele	selector fork 1st and 2nd speed		
guic	guide for selector fork 3rd and 4th speed	-	
sele			
gong	goide for reverse gear selector forkselector fork for reverse dear		
ooq	boot between gear box housing cover and selector shaft	_	
Ā	For selector forks to guides		
	spring washer B 5   reverse gear		
78 splii 3rd	splined bolt for selector forks 1st and 2nd speed, 3rd and 4th speed and for selector finger	, m	
Fo	For fixing the selector rods to rear drive housing		
79 - ball	ball 9 mm III for selector ratchet 1st—4th and reverse speed	ი ი	
sprin	spring for ball	, –	
82 lock	lock pin for gear changing mechanism	_	

	) 10 = Gea	Gear Box	d	Plate 3	
(	Part No.	Z Key	Description	Qły.	
**	-		Shifting lever for reverse speed		
	10 67 536	83	shifting lever	-	
	10 67 533	\$	support for shifting lever	<u>.</u>	
			For support to rear drive housing		
	99 12 438	82	hex. screw M 8×25 SK-8 G pho.black	7	
(	99 32 091	98	spring washer B 8	7	
	29		For shifting lever to support		
	99 40 373	87	bolt 10 h 11 20×16 st. 50.11→	<u>.                                    </u>	
30	99 45 160	88	split pin 3×15 st	-	5-1
			25		week.
		227 972	Rear axle drive		
			Housing with cover		Œ.
	10 61 050	88	rear drive housing with studs	-	
•	10 61 579	06	bushing for fixing the selector rods	က	2
	99 42 165	29	cylinder pin 12 m 6×32 for fixing the gear box housing	2	
ež	99 03 503	23	stud M 8×1×15—5S pho.black. for output shaft support	4	
)	99 03 514	ಜ	stud M 8×1×20—5 S pho.black, for cover of		
	2		differential gear	<b>&amp;</b>	
	99 03 533	\$	stud M 8×1×32—5.5 pho.black. for fixing the gear	entert.	
	E1		box housing	6	
	99 37 220	8	plug 12 for bore of reverse selector fork guide		
	99 37 270	%	plug 20	_	
	10 61 500	26	seal for rear drive shaft support 22X 47 X 10	7	
-	10 61 542	8	seal for rear axle gear wheels#OX60X10	2	
)	10 61 509	66	cover plate for inspection hole of rear drive housing	_	
8	10 61 503	8	cover for rear drive housing	-	

10 = Gea	Gear Box	Pla	Plate 3
Part No.	Key No.	Description	Qfy.
		For cover to rear drive housing	
10 61 50 <b>6</b> 99 31 066 99 22 094	101 102 103	gasket washer 8,4 pho.black. hex. nut M 8×1—6 S pho.black.	- 8
		For cover to inspection hole of rear drive housing	
10 <b>61 51</b> 2 99 32 071 99 13 457	104	gasket spring washer B 6 pho.black. hex. screw M 6×158 G pho.black.	- 4 4
	***	For rear drive housing to gear box housing	
10 61 515 99 41 066 99 22 094	107	gasket washer 8,4 st. pho.black. hex. nut M 8×16 S pho.black.	9 6
		For rear drive and gear box housing to crankcase above and below (with silencer suspension)	
99 12 653 99 31 075 99 22 111	1 2 2	hex. screw M 10×55—8 G pho.black. (below)washer 10,5 st. pho.black	N 4 4
	-	Differential	
10 61 518	113	differential case	- 0
10 61 524	115	intial side gear left and right	: 00 0
10 61 530	117	spacer (thickness as req.) for differential side gear differential gear shaft	7 :-
10 61 533	118	300	2
10 61 579 39 41 380	119	thrust washer between differential case and gear	1 2
10 61 536	121	shaft supporting cover	-
35 48 150 99 32 091	123	hex. screw spring washer B 8	∞ œ

	10 = Gear	Gear Box	Plate	te 3
(	Part No.	Key No.	Description	Qly.
			For differential bearing in rear drive housing	
	99 81 056	124	ball bearing 4988 6208	2
	30 38 350	125	shim 0,20 thick	2
	30 38 532	125	shim 0,28 thick	%
	30 38 354	125	shim 0,38 thick	5
	30 38 356	125	shim 0,50 thick	~
	30 38 358	125	shim 0,75 thick	<b>%</b>
			Coupling flange at differential side gear	
	10 61 545	126	coupling flange for rear axle shaft	3
	10 61 551	127	washer	N
	99 23 475	128	castellated nut M 20×1,565 pho.black	~
	99 45 045	129	split pin 4×40 st.	~
			Clutch release lever	
	10 61 554	130	supporting bracket	-
	10 61 557	131	release lever	-
	10 61 569	132	pressure spring between release lever and housing	-
			For supporting bracket to rear drive housing	
- 1	700 88 00	133	enring writeher B 8	0.
)	99 13 650	134	hex. screw M 8×22—8 G pho.black.	63
			For release lever to supporting bracket	
				Ħ
	10 61 560 99 34 050	136	boltlock washer 10×1	
			For covering the release lever	
				ē
)	01 61 563	137	bood	
	9901 206	139	cover plate	
	77.07.104	2		