

















change to	 ECE (A)	Year	79 - 87	75 - 79	75 - 81	77 - 89	83 - 89	
	 US Models	Version	ECE - Models with Mechanical transmission					
	 Japanese Models	Model	628 CS i	630 CS	633 CS i	635 CS i	M 6	
<b>Technical Data</b>	<b>- Manual Transmission</b>							
Transmission Survey	Getrag 262 - 4 Speed		x	x	x			
	Getrag 265 - 5 Speed / Overdrive		x		x	x		
	Getrag 265 - 5 Speed / Sport					x		
	Getrag 280 - 5 Speed / Sport							x
	Getrag 260/5 - 5 Speed / Overdrive > 9.82		x					
	Getrag 260/6 - 5 Speed / Overdrive > 9.85					x		
<b>23 00 ... Transmission in General</b>			<b>262 4 Speed</b>	<b>265 5 Speed Overdrive</b>	<b>265 5 Speed Sport</b>	<b>260 5 Speed Overdrive</b>	<b>260 5 Speed Sport</b>	<b>280 5 Speed Sport</b>
Oil Grade			see Operating Manual Specifications					
Oil Volume		l	1,1	1,6		1,25		
- after filling or repairing transmission			-	-		1,35		
Ratio		i =	3,855	3,83	3,72	3,83	3,35	3,51
1st gear			$\frac{38 \times 35}{23 \times 15}$	$\frac{34 \times 38}{26 \times 13}$	$\frac{38 \times 36}{23 \times 16}$	$\frac{34 \times 41}{26 \times 14}$	$\frac{32 \times 41}{28 \times 14}$	$\frac{34 \times 43}{26 \times 16}$
Number of teeth								
2nd gear		i =	2,203	2,2	2,4	2,2	2,03	2,08
Number of teeth			$\frac{38 \times 28}{23 \times 21}$	$\frac{34 \times 32}{26 \times 19}$	$\frac{38 \times 32}{23 \times 22}$	$\frac{34 \times 37}{26 \times 22}$	$\frac{32 \times 39}{28 \times 22}$	$\frac{34 \times 35}{26 \times 22}$
3rd gear		i =	1,402	1,4	1,77	1,4	1,36	1,35
Number of teeth			$\frac{38 \times 28}{23 \times 33}$	$\frac{34 \times 31}{26 \times 29}$	$\frac{38 \times 31}{23 \times 29}$	$\frac{34 \times 30}{26 \times 28}$	$\frac{32 \times 31}{28 \times 26}$	$\frac{34 \times 29}{26 \times 28}$
4th gear		i =	1	1	1,26	1	1	1
Number of teeth			-	-	$\frac{38 \times 26}{23 \times 24}$	-	-	-
5th gear		i =	-	0,81	1	0,81	0,81	0,81
Number of teeth			-	$\frac{34 \times 23}{26 \times 37}$	-	$\frac{34 \times 26}{26 \times 42}$	$\frac{32 \times 27}{28 \times 38}$	$\frac{34 \times 26}{26 \times 42}$
Reverse gear		i =	4,3	3,46	4,23	3,46	3,02	3,71
Number of teeth			$\frac{38 \times 16 \times 39}{23 \times 15 \times 16}$	$\frac{34 \times 19 \times 34}{26 \times 12 \times 19}$	$\frac{38 \times 16 \times 41}{23 \times 16 \times 16}$	$\frac{34 \times 21 \times 37}{23 \times 14 \times 21}$	$\frac{32 \times 21 \times 37}{28 \times 14 \times 21}$	$\frac{34 \times 19 \times 34}{26 \times 12 \times 19}$
Speedometer drive		i =	2,5			-		
Number of teeth			$\frac{10}{4}$			-		
<b>23 11...Case and Cover</b>								
Temperature for installation of bearings		°C	80					




change to	 ECE (A)	Year	79 - 87	75 - 79	75 - 81	77 - 89	83 - 89	
	 US Models	Version	ECE - Models with Mechanical transmission					
	 Japanese Models	Model	628 CS i	630 CS	633 CS i	635 CS i	M 6	
<b>Technical Data - Manual Transmission</b>		Unit						
<b>Transmission Survey</b>	Getrag 262 - 4 Speed		x	x	x			
	Getrag 265 - 5 Speed / Overdrive		x		x	x		
	Getrag 265 - 5 Speed / Sport					x		
	Getrag 280 - 5 Speed / Sport						x	
	Getrag 260/5 - 5 Speed / Overdrive > 9.82		x					
	Getrag 260/6 - 5 Speed / Overdrive > 9.85					x		
<b>23 00 ... Transmission in General</b>			<b>262 4 Speed</b>	<b>265 5 Speed Overdrive</b>	<b>265 5 Speed Sport</b>	<b>260 5 Speed Overdrive</b>	<b>260 5 Speed Sport</b>	<b>280 5 Speed Sport</b>
Oil Grade			see Operating Manual Specifications					
<b>23 21... Transmission Shafts</b>								
Axial play (axial bearing clearance) of:								
	Output shaft	mm	0 ... 0,09				-	
	Input shaft	mm	0 ... 0,09				-	
	Layshaft		0,1 ... 0,2			0,13 ... 0,23		-
	Output shaft drive pinion							
	- radial runout	mm	0,07				-	
	Output flange							
	- radial runout	mm	0,07				-	
	- axial runout	mm	0,1				-	
<b>23 22...Gears (Layshaft)</b>								
Pressing off force	3rd gear	kN	98,1	49 ... 69		-		49 ... 69
	at temperature	°C	20					
4th gear		kN	98,1	49 ... 69		-		49 ... 69
	at temperature	°C	20					
5th gear		kN	-	88 ... 98		54 ... 67		88 ... 98
	at temperature	°C	-	20		120		20
Pressing on force	3rd gear	kN	57 ... 69	49 ... 54		-		49 ... 69
	at temperature	°C	120,0	180		-		49 ... 69
4th gear		kN	57 ... 69	49 ... 54		-		49 ... 69
	at temperature	°C	120,0	180		-		49 ... 69
5th gear		kN	-	49 ... 57		48 ... 67		49 ... 57
	at temperature	°C	-	180		120		180
<b>23 23...Synchronization</b>								
Distance between synchromesh ring an clutch body								
	New condition	mm	1,0 ... 1,3				-	
	Max. wear limit	mm	0,8				-	
Reverse gear	New condition	mm	-	0,5 ... 0,6			-	
	Max. wear limit	mm	-	0,4			-	




change to	 ECE (A)	Year	79 - 87	75 - 79	75 - 81	77 - 89	83 - 89	
	 US Models	Version	ECE - Models with Mechanical transmission					
	 Japanese Models	Model	628 CS i	630 CS	633 CS i	635 CS i	M 6	
<b>Technical Data</b>	<b>- Manual Transmission</b>	Unit						
Transmission Survey	Getrag 262 - 4 Speed		x	x	x			
	Getrag 265 - 5 Speed / Overdrive		x		x	x		
	Getrag 265 - 5 Speed / Sport					x		
	Getrag 280 - 5 Speed / Sport						x	
	Getrag 260/5 - 5 Speed / Overdrive > 9.82		x					
	Getrag 260/6 - 5 Speed / Overdrive > 9.85					x		
<b>23 00 ... Transmission in General</b>			<b>262 4 Speed</b>	<b>265 5 Speed Overdrive</b>	<b>265 5 Speed Sport</b>	<b>260 5 Speed Overdrive</b>	<b>260 5 Speed Sport</b>	<b>280 5 Speed Sport</b>
Oil Grade			see Operating Manual Specifications					
<b>23 23...Guide Sleeves</b>								
Pressing off force	1st / 2nd and 5th / Reverse. gear	kN	-			36	-	
	3rd / 4th gear	kN	-			29,5	-	
Pressing on force	1st / 2nd and 5th / Reverse. gear	kN	-			24,5	-	
	3rd / 4th gear	kN	-			20,6	-	
<b>23 31...Interior Shift Parts</b>								
Shift fork guide width	1st ÷ 5th gear	mm	4,8				-	



		<b>ECE</b>	Year	79 - 87	75 - 79	75 - 81	77 - 89	83 - 89
<b>change to</b>		<b>US Models</b>	Version	<b>ECE - Models with Automatic transmission</b>				
		<b>Japanese Models</b>	Model	628 CS i A	630 CS A	633 CS i A	633 CS i A 	635 CS i A
<b>Technical Data</b>	<b>- Manual Transmission</b>		Unit					

no mechanical transmission


change to	 ECE	Year	76 - 77	77 - 84	84 - 89	86 - 88		
	 ECE (A)	Version	US Models					
	 Japanese Models	Model	630 CS i	633 CS i	635 CS i	M 6		
Technical Data	- Manual Transmission	Unit						
Transmission Survey	Getrag 262 - 4 Speed		x	x				
	Getrag 265 - 5 Speed / Overdrive			x	x			
	Getrag 265 - 5 Speed / Sport				x			
	Getrag 280 - 5 Speed / Sport					x		
	Getrag 260/6 - 5 Speed / Overdrive > 9.85				x			
<b>23 00 ... Transmission in General</b>			<b>262 4 Speed</b>	<b>265 5 Speed Overdrive</b>	<b>265 5 Speed Sport</b>	<b>260 5 Speed Overdrive</b>	<b>260 5 Speed Sport</b>	<b>280 5 Speed Sport</b>
Oil Grade		see Operating Manual Specifications						
Oil Volume	l	1,1	1,6		1,25			
	- after filling or repairing transmission	-	-		1,35			
Ratio	i =	3,855	3,83	3,72	3,83	3,35	3,51	
1st gear		<u>38 x 35</u>	<u>34 x 38</u>	<u>38 x 36</u>	<u>34 x 41</u>	<u>32 x 41</u>	<u>34 x 43</u>	
	Number of teeth	23 x 15	26 x 13	23 x 16	26 x 14	28 x 14	26 x 16	
2nd gear		2,203	2,2	2,4	2,2	2,03	2,08	
	Number of teeth	<u>38 x 28</u>	<u>34 x 32</u>	<u>38 x 32</u>	<u>34 x 37</u>	<u>32 x 39</u>	<u>34 x 35</u>	
3rd gear		1,402	1,4	1,77	1,4	1,36	1,35	
	Number of teeth	<u>38 x 28</u>	<u>34 x 31</u>	<u>38 x 31</u>	<u>34 x 30</u>	<u>32 x 31</u>	<u>34 x 29</u>	
4th gear		1	1	1,26	1	1	1	
	Number of teeth	-	-	<u>38 x 26</u>	-	-	-	
5th gear		-	0,81	1	0,81	0,81	0,81	
	Number of teeth	-	<u>34 x 23</u>	-	<u>34 x 26</u>	<u>32 x 27</u>	<u>34 x 26</u>	
Reverse gear		4,3	3,46	4,23	3,46	3,02	3,71	
	Number of teeth	<u>38 x 16 x 39</u>	<u>34 x 19 x 34</u>	<u>38 x 16 x 41</u>	<u>34 x 21 x 37</u>	<u>32 x 21 x 37</u>	<u>34 x 19 x 34</u>	
Speedometer drive			2,5		-			
	Number of teeth		<u>10</u>		-			
			4					
<b>23 11...Case and Cover</b>								
Temperature for installation of bearings	°C	80						




change to	 ECE	Year	76 - 77	77 - 84	84 - 89	86 - 88		
	 ECE (A)	Version	US Models					
	 Japanese Models	Model	630 CS i	633 CS i	635 CS i	M 6		
<b>Technical Data - Manual Transmission</b>		Unit						
Transmission Survey	Getrag 262 - 4 Speed		x	x				
	Getrag 265 - 5 Speed / Overdrive			x	x			
	Getrag 265 - 5 Speed / Sport				x			
	Getrag 280 - 5 Speed / Sport					x		
	Getrag 260/6 - 5 Speed / Overdrive > 9.85				x			
<b>23 00 ... Transmission in General</b>			<b>262 4 Speed</b>	<b>265 5 Speed Overdrive</b>	<b>265 5 Speed Sport</b>	<b>260 5 Speed Overdrive</b>	<b>260 5 Speed Sport</b>	<b>280 5 Speed Sport</b>
Oil Grade			see Operating Manual Specifications					
Oil Volume		l	1,1	1,6	1,25			
<b>23 21... Transmission Shafts</b>								
Axial play (axial bearing clearance) of:								
	Output shaft	mm	0 ... 0,09			-		
	Input shaft	mm	0 ... 0,09			-		
	Layshaft		0,1 ... 0,2		0,13 ... 0,23	-		
	Output shaft drive pinion							
	- radial runout	mm	0,07			-		
	Output flange							
	- radial runout	mm	0,07			-		
	- axial runout	mm	0,1			-		
<b>23 22...Gears (Layshaft)</b>								
Pressing off force	3rd gear	kN	98,1	49 ... 69	-	49 ... 69		
	at temperature	°C	20					
4th gear		kN	98,1	49 ... 69	-	49 ... 69		
	at temperature	°C	20					
5th gear		kN	-	88 ... 98	54 ... 67	88 ... 98		
	at temperature	°C	-	20	120	20		
Pressing on force	3rd gear	kN	57 ... 69	49 ... 54	-	49 ... 69		
	at temperature	°C	120,0	180	-	49 ... 69		
4th gear		kN	57 ... 69	49 ... 54	-	49 ... 69		
	at temperature	°C	120,0	180	-	49 ... 69		
5th gear		kN	-	49 ... 57	48 ... 67	49 ... 57		
	at temperature	°C	-	180	120	180		
<b>23 23...Synchronization</b>								
Distance between synchromesh ring an clutch body								
	New condition	mm	1,0 ... 1,3			-		
	Max. wear limit	mm	0,8			-		
Reverse gear	New condition	mm	-	0,5 ... 0,6		-		
	Max. wear limit	mm	-	0,4		-		

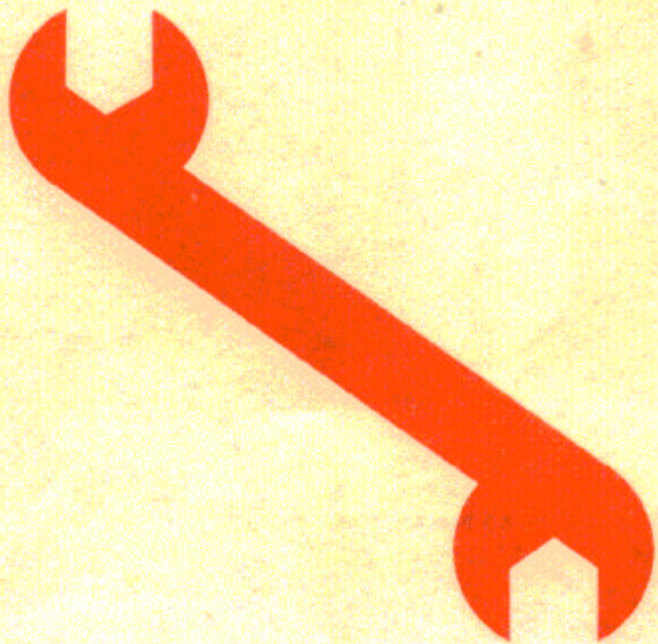
change to	 ECE	Year	76 - 77	77 - 84	84 - 89	86 - 88		
	 ECE (A)	Version	US Models					
	 Japanese Models	Model	630 CS i	633 CS i	635 CS i	M 6		
<b>Technical Data</b>	<b>- Manual Transmission</b>	Unit						
<b>Transmission Survey</b>	Getrag 262 - 4 Speed		x	x				
	Getrag 265 - 5 Speed / Overdrive			x	x			
	Getrag 265 - 5 Speed / Sport				x			
	Getrag 280 - 5 Speed / Sport					x		
	Getrag 260/6 - 5 Speed / Overdrive > 9.85				x			
<b>23 00 ... Transmission in General</b>			<b>262 4 Speed</b>	<b>265 5 Speed Overdrive</b>	<b>265 5 Speed Sport</b>	<b>260 5 Speed Overdrive</b>	<b>260 5 Speed Sport</b>	<b>280 5 Speed Sport</b>
Oil Grade			see Operating Manual Specifications					
Oil Volume		l	1,1	1,6	1,25			
<b>23 23...Guide Sleeves</b>								
Pressing off force	1st / 2nd and 5th / Reverse. gear		kN	-	36		-	
	3rd / 4th gear		kN	-	29,5		-	
Pressing on force	1st / 2nd and 5th / Reverse. gear		kN	-	24,5		-	
	3rd / 4th gear		kN	-	20,6		-	
<b>23 31...Interior Shift Parts</b>								
Shift fork guide width	1st ÷ 5th gear		mm	4,8		-		

change to	 ECE	Year	78 - 84		84 - 88		86 - 88	
	 ECE (A)	Version	Japanese Models					
	US Models	Model	633 CS i		635 CS i		M 6	
<b>Technical Data</b>	<b>- Manual Transmission</b>	Unit						
Transmission Survey	Getrag 262 - 4 Speed		x					
	Getrag 265 - 5 Speed / Overdrive		x		x			
	Getrag 265 - 5 Speed / Sport				x			
	Getrag 280 - 5 Speed / Sport						x	
	Getrag 260/6 - 5 Speed / Overdrive > 9.85				x			
<b>23 00 ... Transmission in General</b>			<b>262 4 Speed</b>	<b>265 5 Speed Overdrive</b>	<b>265 5 Speed Sport</b>	<b>260 5 Speed Overdrive</b>	<b>260 5 Speed Sport</b>	<b>280 5 Speed Sport</b>
Oil Grade			siehe Betriebsstoff-Vorschriften					
Oil Volume		l	1,1		1,6		1,25	
- after filling or repairing transmission			-		-		1,35	
Ratio			i =		3,855		3,83	
1st gear			<u>38 x 35</u>		<u>34 x 38</u>		<u>38 x 36</u>	
Number of teeth			23 x 15		26 x 13		23 x 16	
i =			2,203		2,2		2,4	
2nd gear			<u>38 x 28</u>		<u>34 x 32</u>		<u>38 x 32</u>	
Number of teeth			23 x 21		26 x 19		23 x 22	
i =			1,402		1,4		1,77	
3rd gear			<u>38 x 28</u>		<u>34 x 31</u>		<u>38 x 31</u>	
Number of teeth			23 x 33		26 x 29		23 x 29	
i =			1		1		1,26	
4th gear			-		-		<u>38 x 26</u>	
Number of teeth							23 x 24	
i =			-		0,81		1	
5th gear			-		<u>34 x 23</u>		-	
Number of teeth			26 x 37		26 x 37		<u>34 x 26</u>	
i =			4,3		3,46		4,23	
Reverse gear			<u>38 x 16 x 39</u>		<u>34 x 19 x 34</u>		<u>38 x 16 x 41</u>	
Number of teeth			23 x 15 x 16		26 x 12 x 19		23 x 16 x 16	
i =			2,5				-	
Speedometer drive					<u>10</u>		-	
Number of teeth					4			
<b>23 11...Case and Cover</b>								
Temperature for installation of bearings		°C	80					



change to		ECE	Year	78 - 84	84 - 88	86 - 88					
		ECE (A)	Version	Japanese Models							
		US Models	Model	633 CS i	635 CS i	M 6					
<b>Technical Data</b>		<b>- Manual Transmission</b>		Unit							
<b>Transmission Survey</b>	Getrag 262 - 4 Speed			x							
	Getrag 265 - 5 Speed / Overdrive			x	x						
	Getrag 265 - 5 Speed / Sport				x						
	Getrag 280 - 5 Speed / Sport					x					
	Getrag 260/6 - 5 Speed / Overdrive > 9.85				x						
<b>23 00 ... Transmission in General</b>				<b>262 4 Speed</b>	<b>265 5 Speed Overdrive</b>	<b>265 5 Speed Sport</b>	<b>260 5 Speed Overdrive</b>	<b>260 5 Speed Sport</b>	<b>280 5 Speed Sport</b>		
Oil Grade		siehe Betriebsstoff-Vorschriften									
Oil Volume		l	1,1	1,6	1,25						
<b>23 21... Transmission Shafts</b>				Axial play (axial bearing clearance) of:							
Output shaft		mm	0 ... 0,09			-					
Input shaft		mm	0 ... 0,09			-					
Layshaft			0,1 ... 0,2		0,13 ... 0,23		-				
Output shaft drive pinion - radial runout		mm	0,07			-					
Output flange - radial runout		mm	0,07			-					
- axial runout		mm	0,1			-					
<b>23 22...Gears (Layshaft)</b>				Pressing off force							
3rd gear		kN	98,1	49 ... 69		-		49 ... 69			
at temperature		°C	20								
4th gear		kN	98,1	49 ... 69		-		49 ... 69			
at temperature		°C	20								
5th gear		kN	-	88 ... 98		54 ... 67		88 ... 98			
at temperature		°C	-	20		120		20			
Pressing on force				3rd gear		kN		57 ... 69		49 ... 69	
at temperature		°C	120,0		180		-		49 ... 69		
4th gear		kN	57 ... 69		49 ... 54		-		49 ... 69		
at temperature		°C	120,0		180		-		49 ... 69		
5th gear		kN	-		49 ... 57		48 ... 67		49 ... 57		
at temperature		°C	-		180		120		180		
<b>23 23...Synchronization</b>				Distance between synchromesh ring an clutch body							
New condition		mm	1,0 ... 1,3			-					
Max. wear limit		mm	0,8			-					
Reverse gear				New condition		mm		-		-	
Max. wear limit		mm	-		0,5 ... 0,6		-		-		
		mm	-		0,4		-		-		

change to	 ECE	Year	78 - 84	84 - 88	86 - 88			
	 ECE (A)	Version	Japanese Models					
	 US Models	Model	633 CS i	635 CS i	M 6			
<b>Technical Data</b>	<b>- Manual Transmission</b>	Unit						
<b>Transmission Survey</b>	Getrag 262 - 4 Speed		x					
	Getrag 265 - 5 Speed / Overdrive		x	x				
	Getrag 265 - 5 Speed / Sport			x				
	Getrag 280 - 5 Speed / Sport				x			
	Getrag 260/6 - 5 Speed / Overdrive > 9.85			x				
<b>23 00 ... Transmission in General</b>			<b>262 4 Speed</b>	<b>265 5 Speed Overdrive</b>	<b>265 5 Speed Sport</b>	<b>260 5 Speed Overdrive</b>	<b>260 5 Speed Sport</b>	<b>280 5 Speed Sport</b>
Oil Grade			siehe Betriebsstoff-Vorschriften					
Oil Volume			l	1,1	1,6	1,25		
<b>23 23...Guide Sleeves</b>								
Pressing off force	1st / 2nd and 5th / Reverse. gear		kN	-		36		-
	3rd / 4th gear		kN	-		29,5		-
Pressing on force	1st / 2nd and 5th / Reverse. gear		kN	-		24,5		-
	3rd / 4th gear		kN	-		20,6		-
<b>23 31...Interior Shift Parts</b>								
Shift fork guide width	1st ÷ 5th gear		mm	4,8				-





Service-Information BMW Automobile



Service-Information BMW Automobile



Service-Information BMW Automobile

**All Service Informations are saved in german language, please find them in the german manual.**