

Automatic DB Transmission

Job No.

27-0

General Data, Dimensions and Limits

Change : new models added, other changes marked with*

Shift points

Shifting			1st/2nd gear		2nd/3rd gear		3rd/4th gear		Max. speed in gears, km/h
			up	down	up	down	up	down	
Selector lever position	Accelerator pedal position	Regulator type ¹⁾	Speed values in km/h at shift point						
4	little partial throttle	I	—	—	28	23	40	30	
		II	—	—	28 ^B	23 ^G	40 ^C	30 ^H	
		III	—	—	25	18	40	30	
		IV	—	—	25	18	45	30	
	full throttle	I	18 ²⁾	—	48	23	76	30	
		II	18 ²⁾ A	—	40 ^C	23 ^G	85 ^E	30 ^H	
		III	18 ²⁾	—	40	18	100	30	
		IV	18 ²⁾	—	45	18	120	30	
	kickdown	I	28	10–12	48	30	76	66	
		II	28 ^B	10–12 ^F	54 ^D	30 ^H	85 ^E	75 ^J	
		III	25	10–12	58	30	100	85	
		IV	25	10–12	75	30	120	105	
3	little partial throttle	I	—	—	28	23	—	—	86 86 115 130
		II	—	—	28 ^B	23 ^E	—	—	
		III	—	—	25	18	—	—	
		IV	—	—	25	18	—	—	
	full throttle	I	18 ²⁾	—	48	23	—	—	
		II	18 ²⁾ A	—	54 ^C	23 ^E	—	—	
		III	18 ²⁾	—	58	18	—	—	
		IV	18 ²⁾	—	75	18	—	—	
	kickdown	I	28	10–12	48	38	—	—	
		II	28 ^B	10–12 ^D	54 ^C	44 ^F	—	—	
		III	25	10–12	58	46	—	—	
		IV	25	10–12	75	64	—	—	
2	little partial throttle	I	15	10	—	—	—	—	55 55 70 80
		II	15 ^A	10 ^C	—	—	—	—	
		III	15	10	—	—	—	—	
		IV	15	10	—	—	—	—	
	full throttle	I	15	10	—	—	—	—	
		II	15 ^B	10 ^C	—	—	—	—	
		III	40	10	—	—	—	—	
		IV	45	10	—	—	—	—	
	kickdown	I	28	23	—	—	—	—	
		II	28 ^B	23 ^D	—	—	—	—	
		III	40	30	—	—	—	—	
		IV	45	30	—	—	—	—	

Note: All values are approximate values. The capital letters at the right of the speed values refer to the diagrams of Job No. 27-1.

- * ¹⁾ Regulator type I: Installed in transmission of model 190 Dc (1st version up to transmission No. 1466).
 Regulator type II: Installed in transmission of models 190 Dc (2nd version as from transmission No. 1467) and 200 D
 Regulator type III: Installed in transmission of models 190 c, 200, 220 b, 220 Sb, 220 SEb, 230, 230 S, 250 S, 300 SE with 160 HP engine and transmission version 1 and E.
 Regulator type IV: Installed in transmission of models 230 SL, 250 S, 250 SE, 300 SE with 170 HP engine and standard transmission, 300 SEb, 300 SEL
 (with rear axle ratio 3.92 : 1 the speeds are approx. 4 % lower),
 (with rear axle ratio 3.69 : 1 the speeds are approx 5 % higher).

* ²⁾ Applies only if 1st gear was previously engaged by kickdown.

Transmission ratios

Gear	Transmission	Transmission ratio
1st	In front and rear planetary gear set	3.98 : 1
2nd	In front planetary gear set	2.52 : 1
3rd	In rear planetary gear set	1.58 : 1
4th	No transmission	1 : 1
Reverse	In front and rear planetary gear set	4.15 : 1

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