

## 5-Speed D Gearboxes

### Citroën DS21/23 and D Super 5

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.070	8.44	29.53	
2	17/33	0.515	8/35=	0.118	14.13	49.44	1.674
3	28/37	0.757	0.2285	0.173	20.75	72.63	1.469
4	33/32	1.031		0.236	28.28	98.97	1.363
5	37/29	1.276		0.292	34.98	122.44	1.237

### Citroën D Super w. optional 5-speed

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.063	7.61	26.62	
2	17/33	0.515	7/34=	0.106	12.73	44.57	1.674
3	28/37	0.757	0.206	0.156	18.71	65.47	1.469
4	33/32	1.031		0.212	25.49	89.22	1.363
5	37/28	1.321		0.272	32.67	114.33	1.281

### Citroën DS21/23 special 1

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.070	8.44	29.53	
2	17/33	0.515	8/35=	0.118	14.13	49.44	1.674
3	22/28	0.7857	0.229	0.180	21.54	75.41	1.525
4	27/23	1.1739		0.268	32.19	112.66	1.494
5	38/26	1.4615		0.334	40.08	140.26	1.245

### Citroën DS21/23 special 2

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.070	8.44	29.53	
2	17/33	0.515	8/35=	0.118	14.13	49.44	1.674
3	29/35	0.829	0.229	0.189	22.72	79.52	1.608
4	27/23	1.174		0.268	32.19	112.66	1.417
5	36/24	1.5000		0.343	41.13	143.96	1.278

### Citroën DS21/23 special 3

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.079	9.49	33.23	
2	17/33	0.515	9/35+	0.132	15.90	55.64	1.674
3	28/37	0.757	0.2571	0.195	23.35	81.73	1.469
4	33/32	1.031		0.265	31.82	111.38	1.363
5	37/29	1.276		0.328	39.37	137.79	1.237
5	37/28	1.321		0.340	40.78	142.71	1.281

## 4-Speed D Gearboxes (for 5-bearing cars)

### Pre 9/67 all D except D-Spécial

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.070	8.44	29.53	
2	17/33	0.515	8/35=	0.118	14.13	49.44	1.674
3	22/28	0.786	0.2285	0.180	21.54	75.41	1.525
4	27/23	1.174		0.268	32.19	112.66	1.494

### All except D Spécial and D Super post 9/67

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.070	8.44	29.53	
2	18/33	0.545	8/35=	0.125	14.96	52.35	1.773
3	29/35	0.829	0.2285	0.189	22.72	79.52	1.519
4	27/33	1.174		0.268	32.19	112.66	1.417

### D Super post 10/68 and D Spécial pre 9/69

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.063	7.61	26.62	
2	18/33	0.545	7/34=	0.112	13.48	47.19	1.773
3	23/27	0.852	0.206	0.175	21.06	73.70	1.562
4	27/23	1.273		0.262	31.46	110.12	1.494

### D Spécial from 9/69 to 9/71

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.063	7.61	26.62	
2	18/33	0.545	7/34=	0.112	13.48	47.19	1.773
3	29/35	0.829	0.206	0.171	20.48	71.69	1.519
4	27/23	1.174		0.242	29.02	101.57	1.417

### D Spécial and D Super from 9/71

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.063	7.61	26.62	
2	18/33	0.545	7/34=	0.112	13.48	47.19	1.773
3	30/34	0.882	0.206	0.182	21.81	76.34	1.618
4	28/22	1.273		0.262	31.46	110.12	1.442

## Speeds based on standard tyre size 195 70 VR 15. Injection cars run faster.

### Citroën SM Factory ratios

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	13/38	0.342		0.078	9.37	32.802		0.070	8.46	29.60	
2	17/33	0.515	8/35=	0.118	14.12	49.434	7/34=	0.106	12.73	44.57	1.506
3	28/37	0.757	0.229	0.173	20.75	72.618	0.206	0.156	18.71	65.47	1.469
4	33/32	1.031		0.236	28.27	98.952		0.212	25.49	89.22	1.363
5	37/28	1.321		0.302	36.23	126.798		0.272	32.67	114.33	1.281

### Citroën SM special 1

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.070	8.44	29.53		0.063	7.61	26.62	
2	17/33	0.515	8/35=	0.118	14.13	49.44	7/34=	0.106	12.73	44.57	1.674
3	29/35	0.829	0.229	0.189	22.72	79.52	0.206	0.171	20.48	71.69	1.608
4	27/23	1.174		0.268	32.19	112.66		0.242	29.02	101.57	1.417
5	30/21	1.429		0.326	39.17	137.10		0.294	35.31	123.60	1.217

### Citroën SM special 2

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.070	8.44	29.53		0.063	7.61	26.62	
2	17/33	0.515	8/35=	0.118	14.13	49.44	7/34=	0.106	12.73	44.57	1.674
3	23/27	0.852	0.229	0.195	23.36	81.75	0.206	0.175	21.06	73.70	1.654
4	28/22	1.273		0.291	34.90	122.14		0.262	31.46	110.12	1.494
5	30/21	1.429		0.326	39.17	137.10		0.294	35.31	123.60	1.122

### Citroën SM special 3

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	12/39	0.308		0.070	8.44	29.53		0.063	7.61	26.62	
2	17/33	0.515	8/35=	0.118	14.13	49.44	7/34=	0.106	12.73	44.57	1.674
3	30/34	0.882	0.229	0.202	24.19	84.68	0.206	0.182	21.81	76.34	1.713
4	28/22	1.273		0.291	34.90	122.14		0.262	31.46	110.12	1.442
5	30/21	1.429		0.326	39.17	137.10		0.294	35.31	123.60	1.122

### Citroën SM Factory ratios with 38/26 5th.

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	13/38	0.342		0.078	9.37	32.802		0.070	8.46	29.60	
2	17/33	0.515	8/35=	0.118	14.12	49.434	7/34=	0.106	12.73	44.57	1.506
3	28/37	0.757	0.229	0.173	20.75	72.618	0.206	0.156	18.71	65.47	1.469
4	33/32	1.031		0.236	28.27	98.952		0.212	25.49	89.22	1.363
5	38/26	1.462		0.334	40.08	140.263846		0.301	36.13	126.45	1.417

## Three-bearing D gearboxes

## Gear Sets

### DS19 and ID19 until 9/59

### 1st

Teeth	Ratio	Cars applied
12/39	0.308	All D models
13/38	0.342	SM

### Some likely 5th gear choices

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up
1	11/39	0.282		0.072	9.2	32.2	
2	18/34	0.529	9/35=	0.136	17.26	60.42	1.889
3	22/27	0.815	0.257	0.209	26.59	93.07	1.537
4	27/23	1.174		0.302	38.3	134.03	1.445

### 2nd

17/33	0.515	SM and all D except:
18/33	0.545	4-speed D post 9/67

Teeth Ratio

37/28 1.321

39/29 1.345

38/28 1.357

37/27 1.370

39/28 1.393

38/27 1.407

37/26 1.423

36/25 1.440

### 3rd

28/37	0.757	All 5-speed gearboxes
22/28	0.786	All pre 9/67 except D Spécial
29/35	0.829	D Spécial 9/69 to 9/71 (4-speed)
23/27	0.852	D Super 10/68 - 9/71, D Spécial pre 9/69 (4-speed)
30/34	0.882	D Spécial and D Super post 9/71(4-speed)

39/27 1.444

35/24 1.458

### 4th

33/32	1.031	All 5-speed gearboxes
27/23	1.174	All 4-speed except D Spécial and D Super post 9/71
28/22	1.273	<b>D Spécial and D Super from 9/71</b>

38/26 1.462

34/23 1.478

37/25 1.480

### 5th

37/29	1.276	All D except D Super w. 5-speed *as option*
37/28	1.321	SM and D Super w. 5 speed as option
30/21	1.429	SM Special 1 - 3
38/26	1.462	Proposed D new special 5th (1)
36/24	1.500	Proposed D new special 5th (3)

39/26 1.500

36/24 1.500

38/25 1.520

37/24 1.542

39/25 1.560



Indicates non-standard gears

### DS19 9/59-9/65, ID19 9/59-9/66, Break until 9/65

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up	Step-up
1	11/39	0.282		0.073	9.22	32.29		
2	18/34	0.529	8/31=	0.136	17.31	60.58	1.863	
2*	17/33	0.515	0.258	0.133	16.84	58.96	1.822	
3	22/27	0.815		0.210	26.66	93.31	1.544	1.579
4	27/23	1.174		0.303	38.39	134.38	1.443	

\*revised second gear ratio after 1/61 (DS) and 2/61 (ID)

### DS19 and ID19 "Mountain" (not listed for Break)

Gear	Teeth	Ratio	Final Drive	Overall Ratio	speed km/h 1000rpm	speed km/h 3500rpm	Step-up	Step-up
1	11/39	0.282		0.064	8.08	28.28		
2	18/34	0.529	7/31=	0.120	15.16	53.06	1.875	
2*	17/33	0.515	0.226	0.116	14.75	51.64	1.813	
3	22/27	0.815		0.184	23.35	81.73	1.533	1.586
4	27/23	1.174		0.265	28.65	117.7	1.440	

\*revised second gear ratio after 1/61 (DS) and 2/61 (ID)