

Carl Zeiss Compact Prime CP.2

Mount Change Instructions



We make it visible.

Table for shims to adjust Compact Prime CP.2 lenses when used on digital cameras

Shim color	Thickness [mm]
silver	0.013
gold	0.019
purple	0.025
light blue	0.032
red	0.038
blue	0.051
white	0.064
green	0.076
orange	0.102
light purple	0.127
clear	0.152

Example

- Using a Compact Prime CP.2 35mm/T2.1 lens with an EF mount, scaled in feet and a test chart at a test distance of 4 ft, an actual distance of 4 ft 1' is measured. Due to the table on page 14, a silver shim 0.013 mm must therefore be added to the total thickness of the shims.

Note

- Any combination of shims is possible to achieve the required thickness and therefore the desired flange focal distance.
- Always use the closest possible combination of shims.

Tables for adjusting the flange focal distance of Compact Prime CP.2 lenses

All Compact Prime CP.2 lenses cover the full-frame image format (24 x 36 mm), ANSI Super 35 and Normal 35 image format, except the CP.2 18mm/T3.6. This lens covers the ANSI Super 35 and Normal 35 image format.

Key

- **Minus sign:** Shims must be removed
- **Plus sign:** Shims must be added

Compact Prime CP.2 18/T3.6

Meter distance scale		Feet distance scale	
Distance to test chart [mm]: 1000		Distance to test chart [ft]: 4	
Object distance at best focus [mm]:	Change of total shim thickness [mm]:	Object distance at best focus [ft]:	Change of total shim thickness [mm]:
900	-0.04	3ft 8'	-0.03
925	-0.03	3ft 9'	-0.02
950	-0.02	3ft 10'	-0.01
975	-0.01	3ft 11'	-0.01
1000	0.00	4ft 0'	0.00
1025	+0.01	4ft 1'	+0.01
1050	+0.02	4ft 2'	+0.01
1075	+0.03	4ft 3'	+0.02
1100	+0.04	4ft 4'	+0.03

Compact Prime CP.2 21/T2.9

Meter distance scale		Feet distance scale	
Distance to test chart [mm]: 1000		Distance to test chart [ft]: 4	
Object distance at best focus [mm]:	Change of total shim thickness [mm]:	Object distance at best focus [ft]:	Change of total shim thickness [mm]:
940	-0.04	3ft 8'	-0.04
955	-0.03	3ft 9'	-0.03
970	-0.02	3ft 10'	-0.02
985	-0.01	3ft 11'	-0.01
1000	0.00	4ft 0'	0.00
1015	+0.01	4ft 1'	+0.01
1030	+0.02	4ft 2'	+0.02
1045	+0.03	4ft 3'	+0.03
1060	+0.04	4ft 4'	+0.04

Compact Prime CP.2 25/T2.9

Meter distance scale		Feet distance scale	
Distance to test chart [mm]: 1000		Distance to test chart [ft]: 4	
Object distance at best focus [mm]:	Change of total shim thickness [mm]:	Object distance at best focus [ft]:	Change of total shim thickness [mm]:
960	-0.03	3ft 8'	-0.05
970	-0.02	3ft 9'	-0.04
980	-0.02	3ft 10'	-0.03
990	-0.01	3ft 11'	-0.01
1000	0.00	4ft 0'	0.00
1010	+0.01	4ft 1'	+0.01
1020	+0.02	4ft 2'	+0.03
1030	+0.02	4ft 3'	+0.04
1040	+0.03	4ft 4'	+0.05

Compact Prime CP.2 28/T2.1

Meter distance scale		Feet distance scale	
Distance to test chart [mm]: 1000		Distance to test chart [ft]: 4	
Object distance at best focus [mm]:	Change of total shim thickness [mm]:	Object distance at best focus [ft]:	Change of total shim thickness [mm]:
960	-0.04	3ft 10'	-0.03
970	-0.03	3ft 10 1/2'	-0.03
980	-0.02	3ft 11'	-0.02
990	-0.01	3ft 11 1/2'	-0.01
1000	0.00	4ft 0'	0.00
1010	+0.01	4ft 1'	+0.01
1020	+0.02	4ft 1 1/2'	+0.02
1030	+0.03	4ft 2'	+0.03
1040	+0.04	4ft 2 1/2'	+0.03

Compact Prime CP.2 35/T2.1

Meter distance scale		Feet distance scale	
Distance to test chart [mm]: 1000		Distance to test chart [ft]: 4	
Object distance at best focus [mm]:	Change of total shim thickness [mm]:	Object distance at best focus [ft]:	Change of total shim thickness [mm]:
980	-0.03	3ft 10'	-0.05
985	-0.02	3ft 10 1/2'	-0.04
990	-0.02	3ft 11'	-0.03
995	-0.01	3ft 11 1/2'	-0.01
1000	0.00	4ft 0'	0.00
1005	+0.01	4ft 1'	+0.01
1010	+0.02	4ft 1 1/2'	+0.03
1015	+0.02	4ft 2'	+0.04
1020	+0.03	4ft 2 1/2'	+0.05

Compact Prime CP.2 50/T2.1 and CP.2 50/T2.1 Makro

Meter distance scale		Feet distance scale	
Distance to test chart [mm]: 1500		Distance to test chart [ft]: 5	
Object distance at best focus [mm]:	Change of total shim thickness [mm]:	Object distance at best focus [ft]:	Change of total shim thickness [mm]:
1480	-0.03	4ft 11'	-0.03
1485	-0.02	4ft 11 1/4'	-0.03
1490	-0.01	4ft 11 1/2'	-0.02
1495	-0.01	4ft 11 3/4'	-0.01
1500	0.00	5ft 0'	0.00
1505	+0.01	5ft 1/4'	+0.01
1510	+0.01	5ft 1/2'	+0.02
1515	+0.02	5ft 3/4'	+0.03
1520	+0.03	5ft 1'	+0.03

Compact Prime CP.2 85/T2.1

Meter distance scale		Feet distance scale	
Distance to test chart [mm]: 1500		Distance to test chart [ft]: 5	
Object distance at best focus [mm]:	Change of total shim thickness [mm]:	Object distance at best focus [ft]:	Change of total shim thickness [mm]:
1492	-0.03	4ft 11 4/8'	-0.05
1494	-0.02	4ft 11 5/8'	-0.04
1496	-0.02	4ft 11 6/8'	-0.02
1498	-0.01	4ft 11 7/8'	-0.01
1500	0.00	5ft 0'	0.00
1502	+0.01	5ft 1/8'	+0.01
1504	+0.02	5ft 2/8'	+0.02
1506	+0.02	5ft 3/8'	+0.04
1508	+0.03	5ft 4/8'	+0.05

Compact Prime CP.2 100/T2.1 CF

Meter distance scale		Feet distance scale	
Distance to test chart [mm]: 2000		Distance to test chart [ft]: 7	
Object distance at best focus [mm]:	Change of total shim thickness [mm]:	Object distance at best focus [ft]:	Change of total shim thickness [mm]:
1987	-0.04	6ft 11 4/8'	-0.03
1990	-0.03	6ft 11 5/8'	-0.02
1993	-0.02	6ft 11 6/8'	-0.02
1997	-0.01	6ft 11 7/8'	-0.01
2000	0.00	7ft 0'	0.00
2003	0.01	7ft 1/8'	0.01
2007	0.02	7ft 2/8'	0.02
2010	0.03	7ft 3/8'	0.03
2013	0.04	7ft 4/8'	0.03

Compact Prime CP.2 – Accessories and spare parts

All interchangeable mount sets include: mount, lens caps, adaption ring with support bracket, screws and a set of shims CP.2.

Accessories/spare parts		Ident-No.
EF mount	Interchangeable Mount Set EF (for CP.2 18/T3.6 or CP.2 25/T2.9)	1849-490
	Interchangeable Mount Set EF (for CP.2 21/T2.9 or CP.2 28/T2.1 or CP.2 35/T2.1)	1846-492
	Interchangeable Mount Set EF (for CP.2 50/T2.1 or CP.2 85/T2.1)	1846-494
	Interchangeable Mount Set EF (for CP.2 50/T2.1 Makro)	1846-496
	Interchangeable Mount Set EF (for CP.2 100/T2.1 CF)	1846-499
PL mount	Interchangeable Mount Set PL (for CP.2 18/T3.6 or CP.2 25/T2.9)	1846-489
	Interchangeable Mount Set PL (for CP.2 21/T2.9 or CP.2 28/T2.1 or CP.2 35/T2.1)	1846-491
	Interchangeable Mount Set PL (for CP.2 50/T2.1 or CP.2 85/T2.1)	1846-493
	Interchangeable Mount Set PL (for CP.2 50/T2.1 Makro)	1846-495
	Interchangeable Mount Set PL (for CP.2 100/T2.1 CF)	1846-498

Accessories/spare parts		Ident- No.
F mount	Interchangeable Mount Set F (for CP.2 18/T3.6 or CP.2 25/T2.9)	1871-042
	Interchangeable Mount Set F (for CP.2 21/T2.9 or CP.2 28/T2.1 or CP.2 35/T2.1)	1871-043
	Interchangeable Mount Set F (for CP.2 50/T2.1 or CP.2 85/T2.1 or CP.2 50/T2.1 Makro)	1871-046
	Interchangeable Mount Set F (for CP.2 100/T2.1 CF)	1871-044
Micro 4/3 mount	Interchangeable Mount Set MFT (for CP.2 18/T3.6 or CP.2 25/T2.9)	1889-230
	Interchangeable Mount Set MFT (for CP.2 21/T2.9 or CP.2 28/T2.1 or CP.2 35/T2.1)	1889-231
	Interchangeable Mount Set MFT (for CP.2 50/T2.1 or CP.2 85/T2.1)	1889-232
	Interchangeable Mount Set MFT (for CP.2 50/T2.1 Makro)	1889-233
	Interchangeable Mount Set MFT (for CP.2 100/T2.1 CF)	1889-234
E mount	Interchangeable Mount Set E (for CP.2 18/T3.6 or CP.2 25/T2.9)	1907-608
	Interchangeable Mount Set E (for CP.2 21/T2.9 or CP.2 28/T2.1 or CP.2 35/T2.1)	1907-609
	Interchangeable Mount Set E (for CP.2 50/T2.1 or CP.2 85/T2.1)	1907-610
	Interchangeable Mount Set E (for CP.2 50/T2.1 Makro)	1907-611
	Interchangeable Mount Set E (for CP.2 100/T2.1 CF)	1907-612
	CP.2 Transport Case (external dimensions: 56 x 45.5 x 26.5 cm (22.06" x 17.93" x 10.43"))	1856-822
	Support Bracket EF, F, MFT, E (incl. screws)	1856-667
	Torx torque wrench (T6, torque moment 0.4 Nm)	0520-065
	Torx Pan-Head screw (M2 x 8 -SUS 410; 50 pcs.)	500-022
	Front Lens Cap EF, PL, F, MFT, E	0097-227
	Rear Lens Cap EF	1793-167
	Rear Lens Cap PL	102160- 0052-000
	Rear Lens Cap F	1793-178
	Rear Lens Cap MFT	1889-118
	Rear Lens Cap E	1907-145
	Siemens Star test chart (DIN A3, laminated)	1849-755
	Set of shims CP.2	1853-634