

Vivitar®

Series 1 Lens

135mm f/2.3

Parts Manual



**ORDER PARTS BY NUMBER
AND DESCRIPTION FROM:**

Central Parts Service
Ponder & Best, Inc.
11221 W. Pico Blvd.
Los Angeles, CA 90064
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PARTS MANUAL
VIVITAR SERIES 1 135mm F/2.3
AUTOMATIC TELEPHOTO LENSES

This Parts Manual contains exploded view drawings and parts lists for the Vivitar Series 1 135mm f/2.3 Automatic Telephoto Lenses.

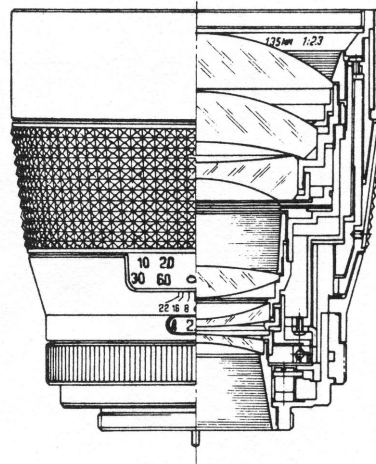
All parts illustrated on the drawings are listed by reference designation only. The parts list shows reference designation, part description, and part number.

PARTS ORDERS

When ordering parts, please order by part number, description, and model number.

VIVITAR SERIES 1 135mm F/2.3 AUTOMATIC TELEPHOTO LENSES

GENERAL SPECIFICATIONS



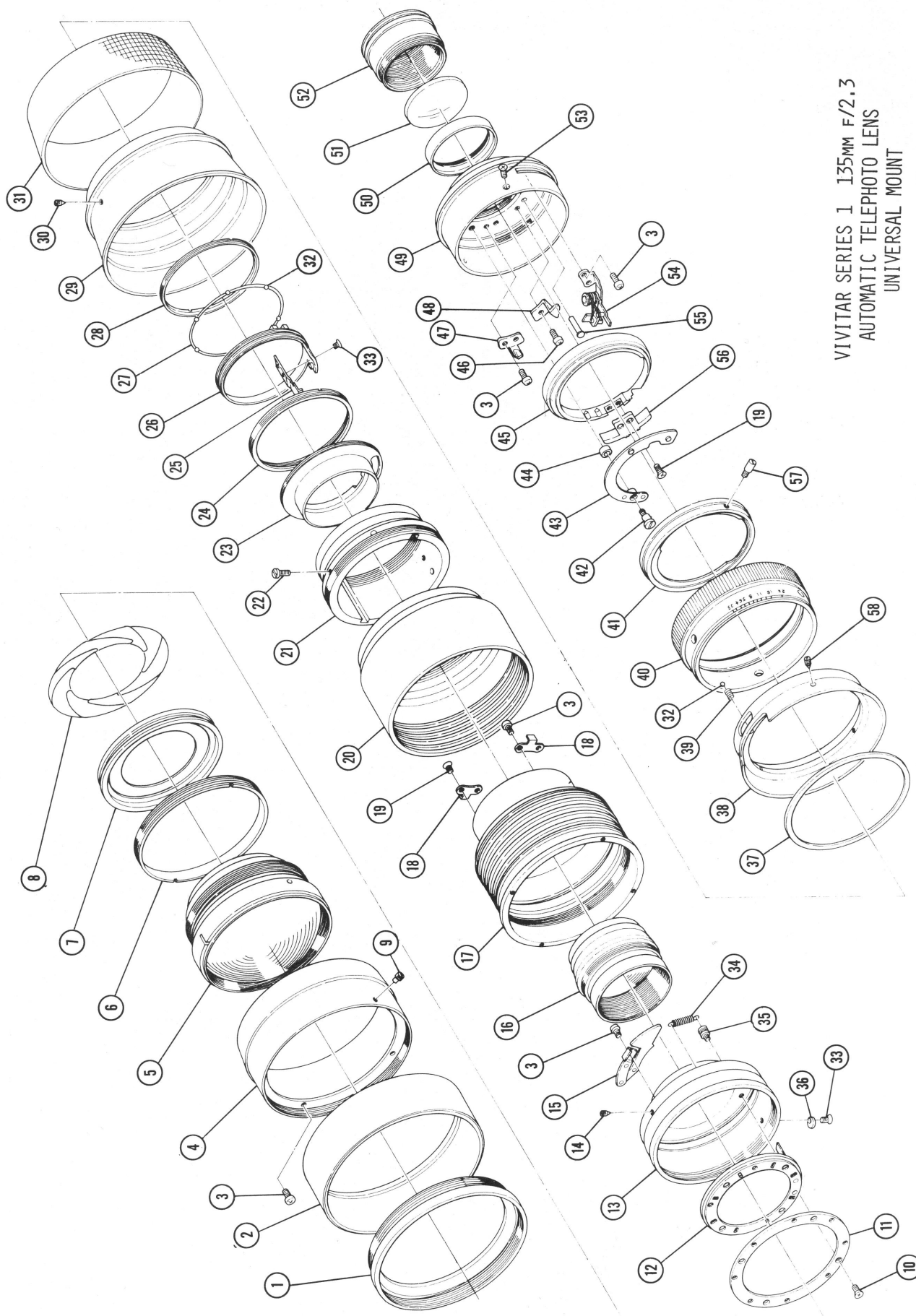
The Vivitar Series 1 135mm f2.3 is one of the fastest automatic telephoto lenses available today. High resolution and contrast are consistent throughout its unusually wide focusing range, a result of the uniquely positioned rear compensating element that automatically corrects aberrations at all points from the closest focusing distance to infinity. Its ideal combination of high speed, 2.5X magnification over a normal lens and ability to focus as close as 3 feet make it one of the most versatile telephoto lenses available.

Optical Specifications:

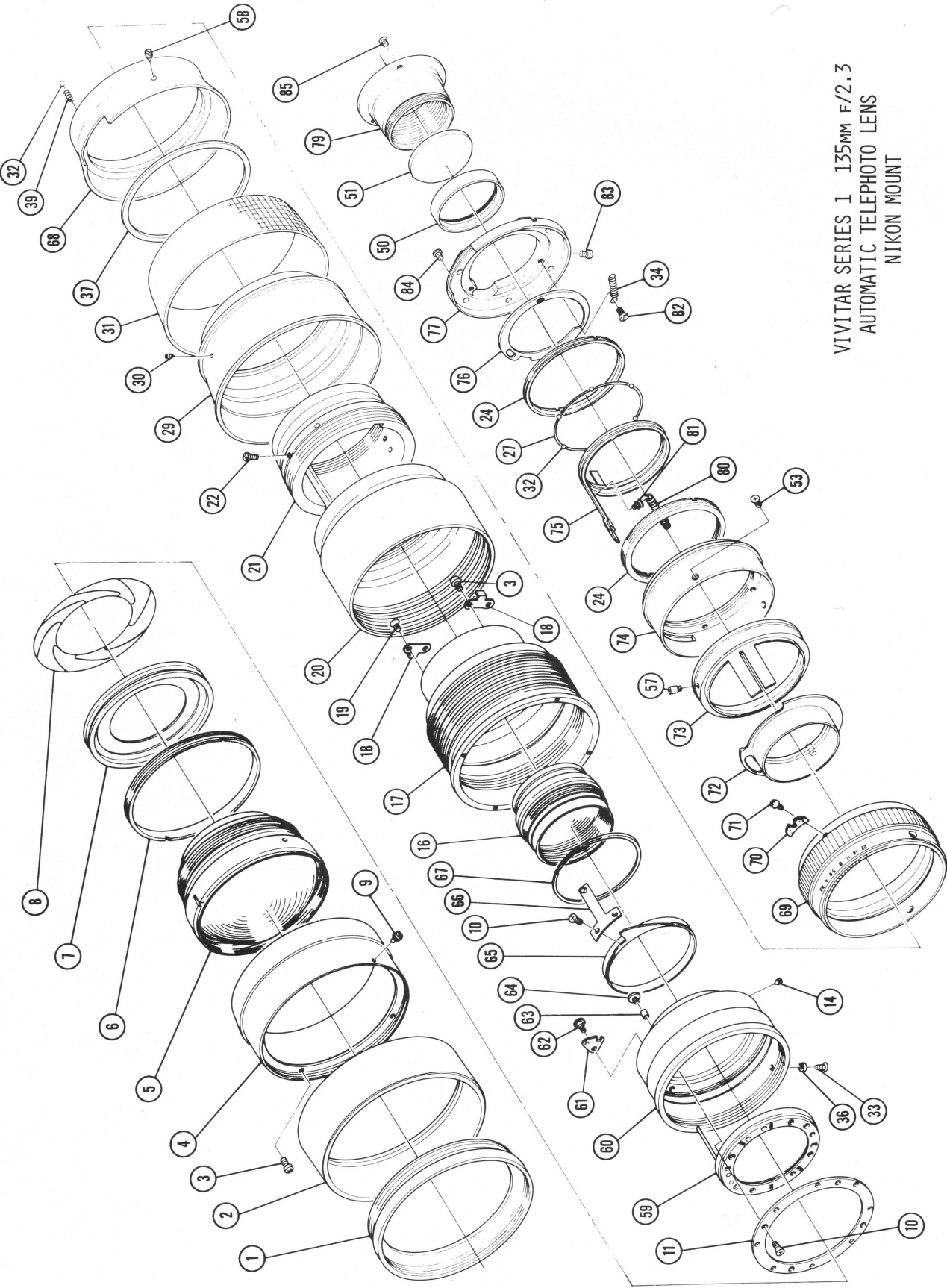
Construction: 6 elements, 6 groups
Effective focal length: 135mm
Back focal length: 59.78mm
Angle of acceptance: 18 degrees
Minimum focus distance: 3' from focal plane
2'6.2" from front element
Max. magnification: 1:4.5 normal size

Mechanical Specifications:

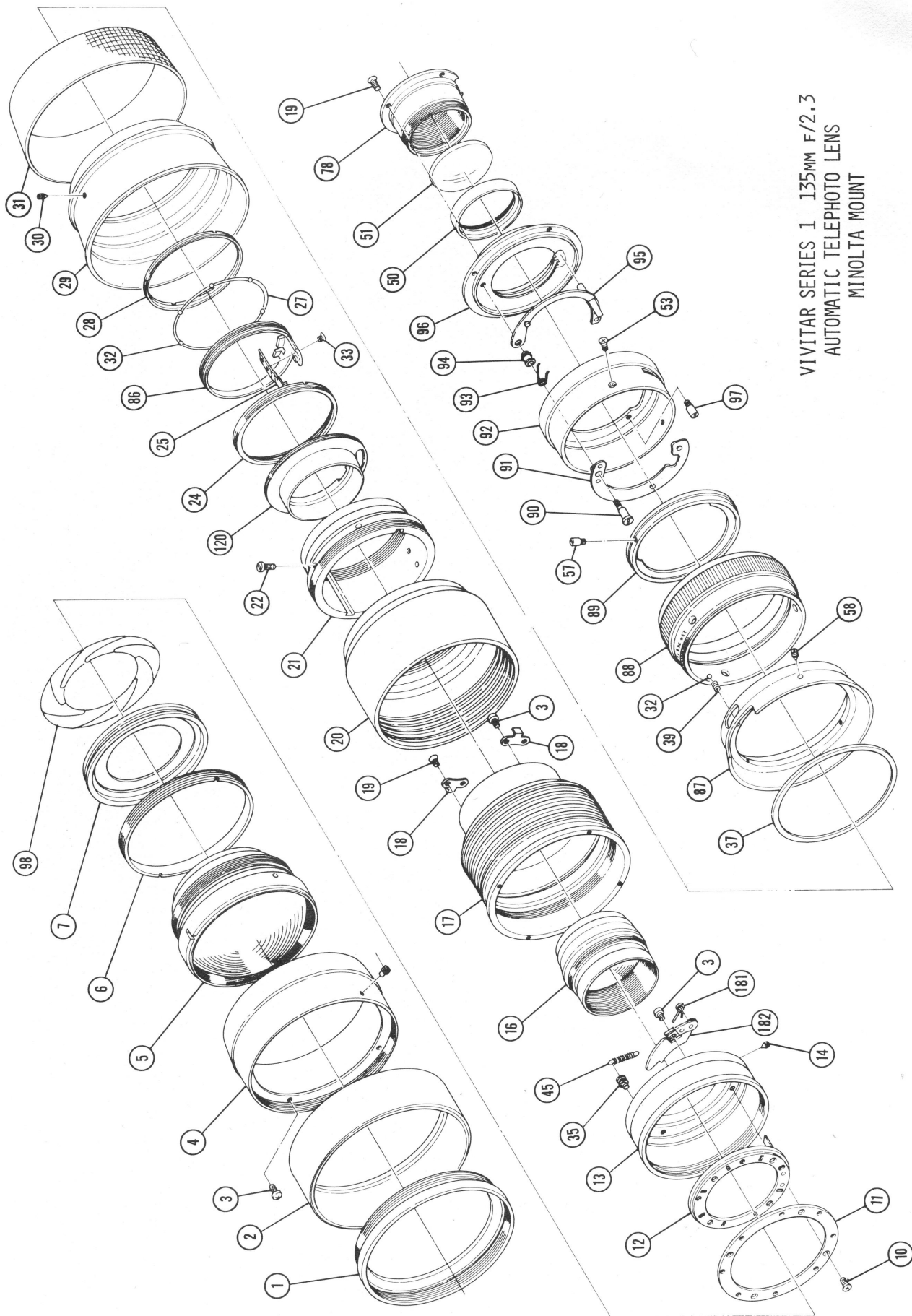
Accessory size: 72mm
Weight: 22 ounces
Overall length: 3.6 inches
Track length: .78 inches
Maximum barrel diameter: 3 1/8 inches
Aperture range: f2.3-22
f2.3-16*
Lens hood: Built-in, retractable
*EE coupled lenses only



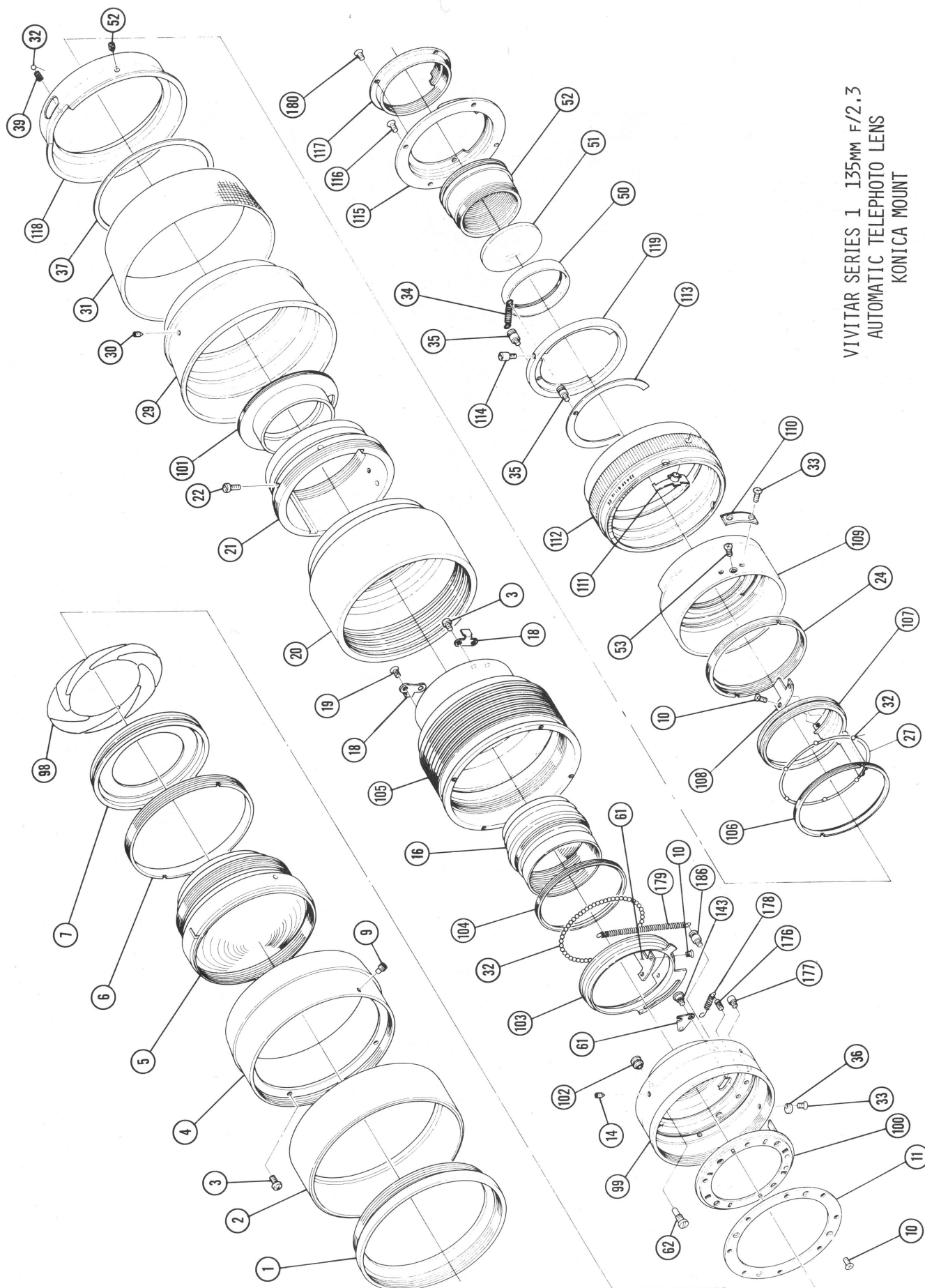
VIVITAR SERIES 1 135MM F/2.3
AUTOMATIC TELEPHOTO LENS
UNIVERSAL MOUNT



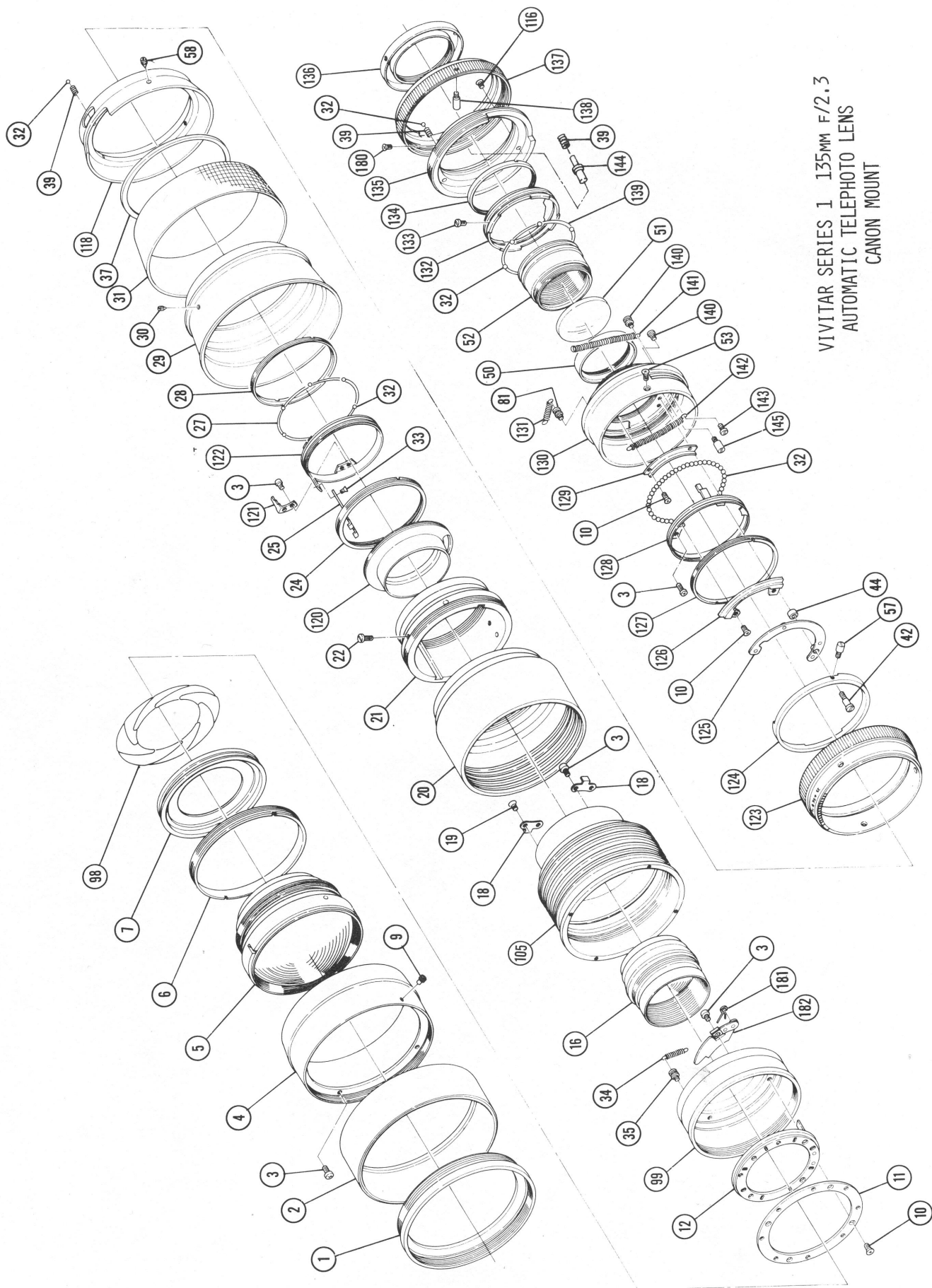
VIVITAR SERIES 1 135mm F/2.3
 AUTOMATIC TELEPHOTO LENS
 NIKON MOUNT



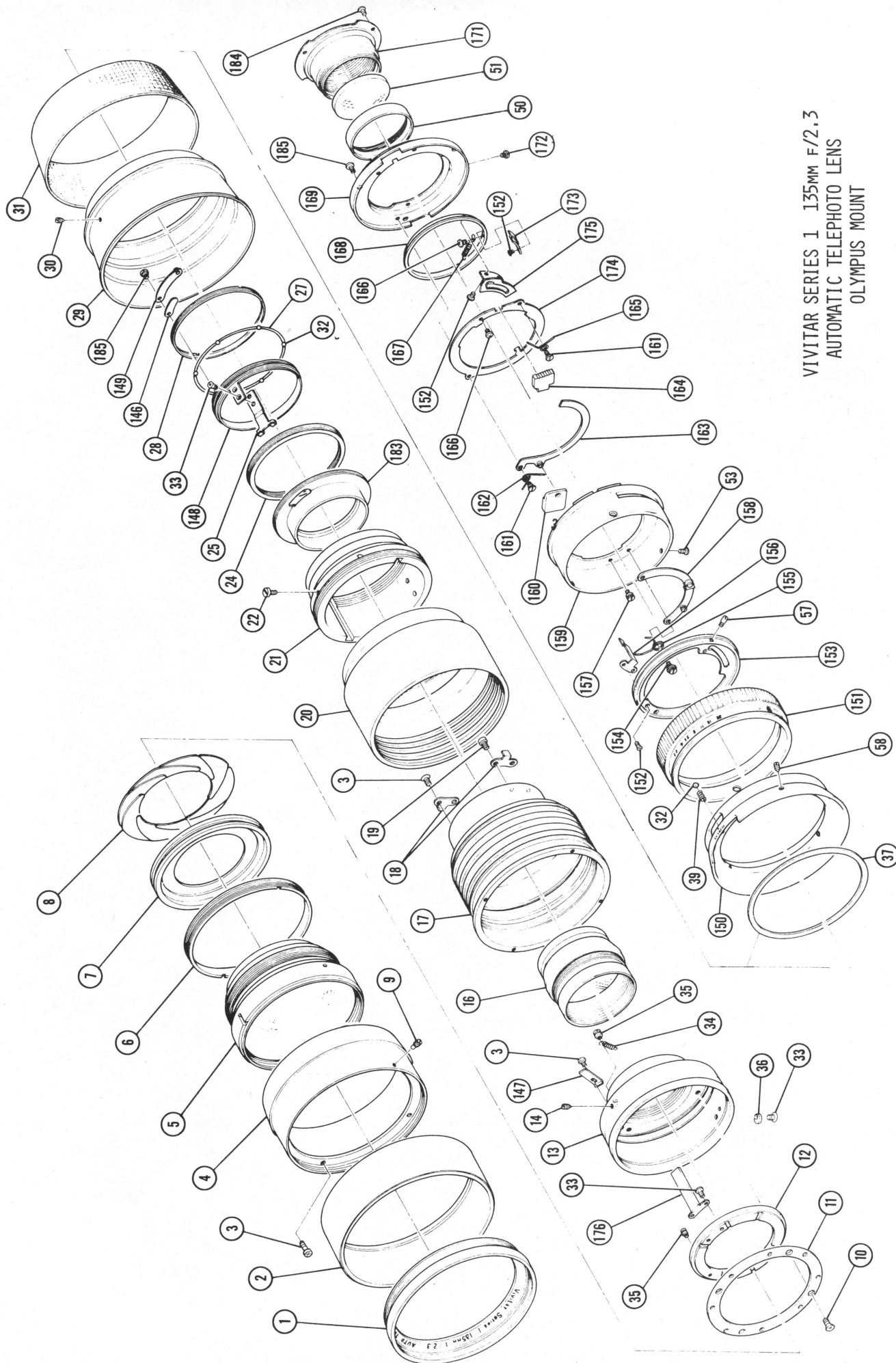
VIVITAR SERIES 1 135MM F/2.3
AUTOMATIC TELEPHOTO LENS
MINOLTA MOUNT



VIVITAR SERIES 1 135mm F/2.3
AUTOMATIC TELEPHOTO LENS
KONICA MOUNT



VIVITAR SERIES 1 135mm F/2.3
AUTOMATIC TELEPHOTO LENS
CANON MOUNT



VIVITAR SERIES 1 135mm F/2.3
AUTOMATIC TELEPHOTO LENS
OLYMPUS MOUNT

PARTS LIST
VIVITAR SERIES 1 AUTOMATIC TELEPHOTO LENS
135MM F/2.3

REFERENCE	DESCRIPTION	PART NUMBER	MOUNT & QUANTITY					
			U	N	M	K	C	O
1	RING, NAME	513010	1	1	1	1	1	1
2	HOOD	513011	1	1	1	1	1	1
3	SCREW	513012	10	6	7	6	10	7
4	RING, FRONT	513013	1	1	1	1	1	1
5	LENS ASSEMBLY, 1st, 2nd & 3rd	513014	1	1	1	1	1	1
6	RING, RETAINER	513015	1	1	1	1	1	1
7	RING, DIAPHRAGM BLADE RETAINER	513016	1	1	1	1	1	1
8	BLADE SET, DIAPHRAGM	513017	8	8				8
9	SETSCREW	513018	1	1	1	1	1	1
10	SCREW	513019	4	6	4	8	8	4
11	WASHER, DIAPHRAGM BLADE	513020	1	1	1	1	1	1
12	RING, DIAPHRAGM BLADE OPERATING	513021	1		1		1	1
13	HOUSING, DIAPHRAGM	513022	1		1		1	1
14	SETSCREW	513023	3	3	3	3	3	3
15	RECEPTACLE, BUFFER	513024	1					
16	ELEMENT HOLDER, 4th & 5th LENS	513025	1	1	1	1	1	1
17	HELICOID, FIRST	513026	1	1	1		1	1
18	GUIDE, HELICOID	513027	2	2	2	2	2	2
19	SCREW	513583	4	2	2	2	2	4
20	HELICOID, SECOND	513029	1	1	1	1	1	1
21	HELICOID, THIRD	513030	1	1	1	1	1	1
22	SCREW, STOP	513031	1	1	1	1	1	1
23	RING, BAFFLE	513032	1					
24	RING, BALL RECEPTACLE	513033	1		1	1	1	1
25	LEVER, OPERATION	513034	1		1		1	1
26	RING SET, OPERATION	513035	1					
27	SPACER, BALL	513036	6	6	6	6	6	6
28	RING, BALL HOLDER	513037	1		1	1	1	1
29	RING, FOCUS SCALE	513038	1	1	1	1	1	1
30	SETSCREW	513039	3	3	3	3	3	3
31	GRIP	513040	1	1	1	1	1	1
32	BALL, STEEL 1.5Ø	513041	7	7	7	90	104	7
33	SCREW	513042	3	3	3	3	3	3
34	SPRING, DIAPHRAGM	513043	1	1	1	1	1	1
35	SCREW, SPRING HOOK	515112	1		1	2	1	1
36	CAM, DIAPHRAGM CONTROL	513045	1	1	1	1	1	1
37	WASHER	513046	1	1	1	1	1	1
38	RING, DEPTH OF FIELD	513047	1					
39	SPRING, DETENT	513048	1	1	1	2	2	1
40	RING, DIAPHRAGM	513049	1					

PARTS LIST
VIVITAR SERIES 1 AUTOMATIC TELEPHOTO LENS
135MM F/2.3

REFERENCE	DESCRIPTION	PART NUMBER	MOUNT & QUANTITY					
			U	N	M	K	C	O
41	RING, CAM	513050	1					
42	SCREW, SHAFT	513051	1				1	
43	METAL SET, CONTROL	513052	1					
44	WASHER, CONTROL METAL SHAFT	513053	1				1	
45	RING, MANUAL DIAPHRAGM	513054	1					
46	SCREW	513055	2					
47	SPRING, DETENT	513056	1					
48	STOPPER	513057	1					
49	MOUNT FRAME, PENTAX	513058	1					
50	LENS HOLDER, 6th	513059	1					
51	LENS ELEMENT, 6th	513060	1					
52	LENS FRAME, 6th	513061	1					
53	SCREW	513062	3	3	3	3	3	3
54	METAL SET, OPERATION	513295	1					
55	PIN, DIAPHRAGM OPERATING	513064	1					
56	DIAPHRAGM LEVER, MANUAL	513065	1				1	
57	SCREW, CAM OPERATING	513066	1	1	1		1	1
58	SETSCREW	513067	3	3	3	3	3	3
59	RING, DIAPHRAGM BLADE OPERATING	513068	1					
60	HOUSING, DIAPHRAGM	513069	1					
61	PLATE SET, SECTOR	513070	1			1		
62	SCREW	513071	1			1		1
63	NUT, ROUND	513072	4			4		
64	SCREW, FLAT	513073	4			4		
65	RING, CAM	513531	1					
66	LEVER SET, CAM	513075	1					
67	RING, STOP	513076	1					
68	RING, DEPTH OF FIELD	513077	1					
69	RING, DIAPHRAGM	513078	1					
NIKON 70	PLATE, DIAPHRAGM COUPLER <i>Meter Coupler</i>	513576 (75)	1					
71	SCREW, COUPLER PLATE (5)	513080	1					
72	RING, INSIDE	513081	1					
73	RING, CAM	513082	1					
74	MOUNT FRAME, NIKON	513083	1					
75	RING, OPERATION	513084	1					
76	RING, BUFFER	513085	1					
77	NIKON MOUNT	513086	1					
78	LENS FRAME, 6th	513087					1	
79	LENS FRAME, 6th	513088	1					
80	SPRING	513089	1					

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135MM F/2.3

REFERENCE	DESCRIPTION	PART NUMBER	MOUNT & QUANTITY					
			U	N	M	K	C	O
81	SCREW, SPRING HOOK	513090		1				2
82	SETSCREW, BUFFER RING	513091		3				
83	SCREW, FLAT	513092		1				
84	SCREW, PAN HEAD	513093		5				
85	SCREW, FLAT HEAD	513094		3	3			
86	RING, OPERATING	513095			1			
87	RING, DEPTH OF FIELD	513096			1			
88	RING, DIAPHRAGM	513097			1			
89	RING, CAM	513098			1			
90	SCREW, SHAFT	513099			1			
91	CONTROL METAL	513100			1			
92	MOUNT FRAME, MINOLTA	513101			1			
93	SPRING, OPERATING LEVER	513102			1			
94	SPACER, OPERATING LEVER	513103			1			
95	LEVER, OPERATING	513104			1			
96	MINOLTA MOUNT	513105			1			
97	SCREW, CONTROL METAL	513106			1			
98	BLADE, DIAPHRAGM (SET)	513107			8	8		8
99	HOUSING, DIAPHRAGM	513108				1		
100	RING, DIAPHRAGM BLADE OPERATING	513109				1		
101	RING, BAFFLE	513110				1		
102	ROLLER	513111				1		
103	RING SET, CAM	513112				1		
104	RING, BALL RETAINER	513113				1		
105	HELICOID, 1st	513114				1		
106	RING, RETAINING	513037				1		
107	RING, OPERATING	513116				1		
108	LEVER, OPERATING	513117				1		
109	MOUNT FRAME, KONICA	513118				1		
110	LOCK TIP	513119				1		
111	BUTTON SET, LOCK	513120				1		
112	RING, DIAPHRAGM	513121				1		
113	RING, BUFFER	513122				1		
114	SCREW, STOP	513123				1		
115	KONICA MOUNT	513124				1		
116	SCREW, FLAT HEAD	513125			4	4		3
117	RING, MOUNT COVER	513126				1		
118	RING, DEPTH OF FIELD	513127				1		
119	RING, STOPPER	513128				1		
120	RING, BAFFLE	513129						1

PARTS LIST
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135MM F/2.3

REFERENCE	DESCRIPTION	PART NUMBER	MOUNT & QUANTITY					
			U	N	M	K	C	O
121	PLATE, OPERATING RING	513130						1
122	RING, OPERATING	513131						1
123	RING, DIAPHRAGM	513132						1
124	RING, STOP	513133						1
125	METAL SET, CONTROL	513134						1
126	CAM TIP	513135						1
127	WASHER, MOUNT FRAME	513136						1
128	RING, CAM OPERATION	513137						1
129	SPRING RECEPTACLE	513138						1
130	MOUNT FRAME, CANON	513139						1
131	SPRING, OPERATING RING	513140						1
132	RING, DIAPHRAGM OPERATING	513141						1
133	SCREW	513142						1
134	RING, BALL RETAINER	513143						1
135	CANON MOUNT	513144						1
136	RING, COVER	513145						1
137	RING, LOCK	513146						1
138	SCREW, SIGNAL	513147						1
139	SPACER	513148						7
140	SCREW, FLAT	513149						1
141	SPRING, OPERATING RING	513150						1
142	SPRING, CAM OPERATING	513151						1
143	SCREW, SPRING HOOK	513152						1
144	PIN, E.E. CHANGE	513156						1
145	SCREW, STOP	513154						1
146	WASHER	513155						1
147	STOPPER	513208						1
148	RING, OPERATING	513157						1
149	OPERATION METAL (SET)	513158						1
150	RING, DEPTH OF FIELD	513159						1
151	RING, DIAPHRAGM	513160						1
152	SCREW	513161						6
153	RING, CAM	513162						1
154	SCREW, CONTROL METAL SHAFT	513163						1
155	SPRING, CONTROL METAL	513164						1
156	LEVER, COUPLING	513165						1
157	SCREW, SPRING HOOK	513166						1
158	CONTROL METAL (SET)	513167						1
159	MOUNT FRAME, OLYMPUS	513168						1
160	DIAPHRAGM BUTTON, MANUAL	513169						1

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135MM F/2.3

REFERENCE	DESCRIPTION	PART NUMBER	MOUNT & QUANTITY					
			U	N	M	K	C	O
161	SCREW, MANUAL DIAPHRAGM METAL SHAFT	513170						1
162	SPRING, MANUAL DIAPHRAGM	513171						1
163	ACTUATOR, MANUAL DIAPHRAGM	513172						1
164	BUTTON, LOCK	513173						1
165	SPRING, LOCK BUTTON	513174						1
166	SCREW, PAN HEAD	513175						2
167	SPRING, OPERATING RING	513176						1
168	RING, DIAPHRAGM OPERATING	513177						1
169	OLYMPUS MOUNT	513178						1
170	SCREW, PAN HEAD MOUNT	513179						1
171	LENS FRAME, 6th	513180						1
172	SCREW, STOP	513181						1
173	RETAINER, DIAPHRAGM OPERATING RING	513182						1
174	RING HOLDER, DIAPHRAGM	513183						1
175	CAM, DIAPHRAGM OPERATING	513184						1
176	SPRING	513185						1
177	SCREW, CAM STOP	513186						1
178	SPRING, BLADE RING	513187						1
179	SPRING	513188						1
180	SCREW	513189				3	3	
181	SPRING	513190				1		
182	PLATE, BUFFER	513191				1		
183	RING, BAFFLE	513129						1
184	SCREW	513193						3
185	SCREW	513071						

Vivitar.

boggy

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