

## 55mm f/2.8 Macro

PARTS MANUAL  
VIVITAR AUTOMATIC FIXED MOUNT LENS  
55mm f/2.8 MACRO

This Parts Manual contains exploded view drawings and a parts list for the Vivitar Automatic Fixed Mount 55mm f/2.8 Macro Lens.

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

In the Parts List quantities of each item are listed as used in the different mounts. The mounts are referred to as:

U = Universal (for cameras such as Pentax,  
Vivitar, Mamiya, etc.)

N = Nikon

M = Minolta

C = Canon

K = Konica

O = Olympus

Note that some parts are common to more than one mount (U, N, M, C, K, O). This commonality is shown in the Parts List so that service centers desiring to stock replacement parts can order economically.

PARTS ORDERS

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

SPECIFICATIONS

|                                            |                        |                          |                    |
|--------------------------------------------|------------------------|--------------------------|--------------------|
| Optical Construction:                      | 5 elements in 4 groups | Weight:                  | 11 ounces (313 g)  |
| Angle of Acceptance:                       | 43°                    | Length at $\infty$ :     | 2.5 inches (64mm)  |
| Aperture Range:                            | f2.8 to f16            | Maximum Barrel Diameter: | 2.75 inches (70mm) |
| Minimum Focusing Distance from Film Plane: | 8.5 inches (0.215 m)   | Accessory Size:          | 62mm               |
|                                            |                        | Slip-on Lens Cap Size:   | 65mm               |

VIVITAR AUTOMATIC FIXED MOUNT LENS  
55mm F/2.8 MACRO  
UNIVERSAL MOUNT

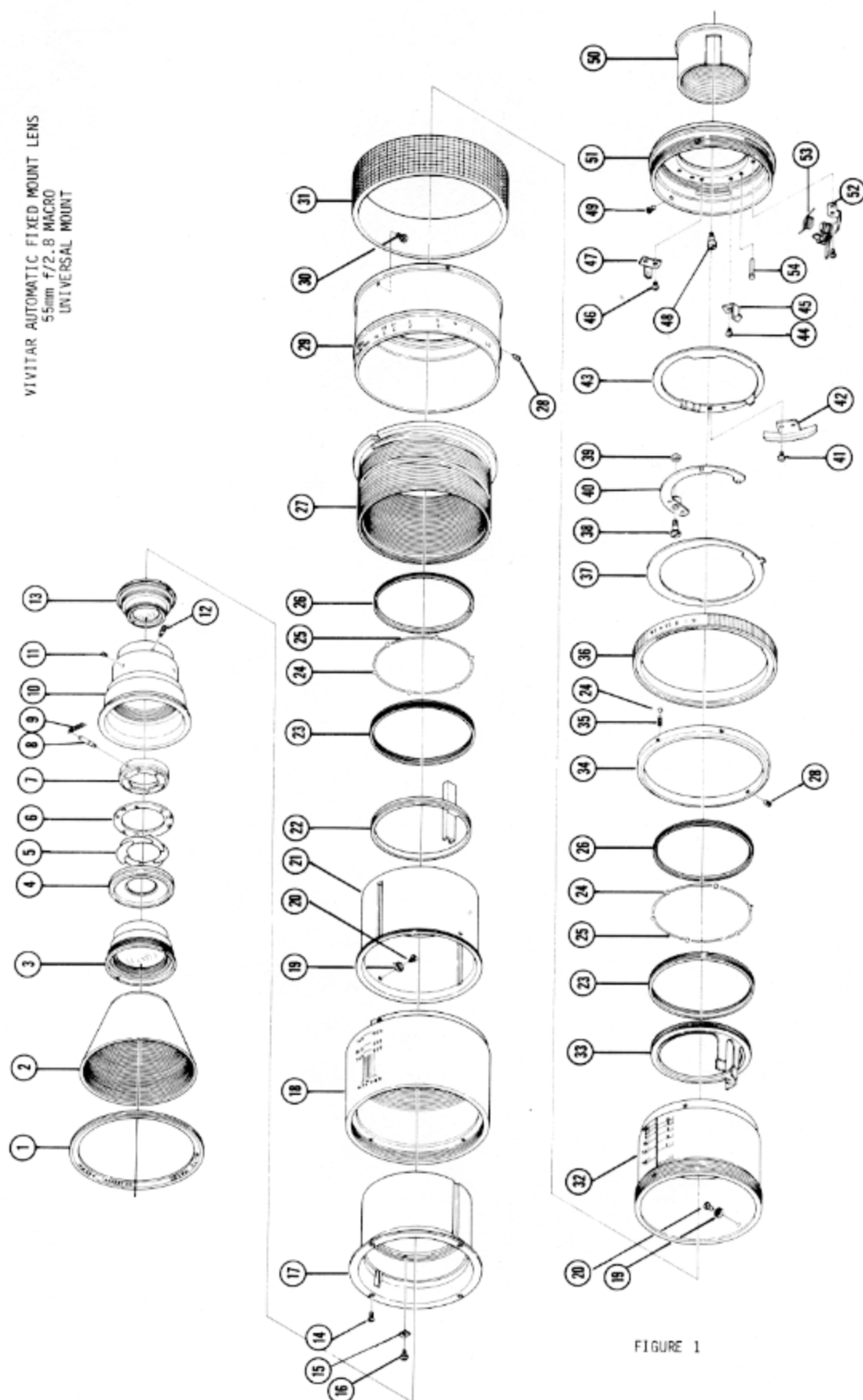


FIGURE 1

VIVITAR AUTOMATIC FIXED MOUNT LENS  
55mm f/2.8 MACRO  
NIKON MOUNT

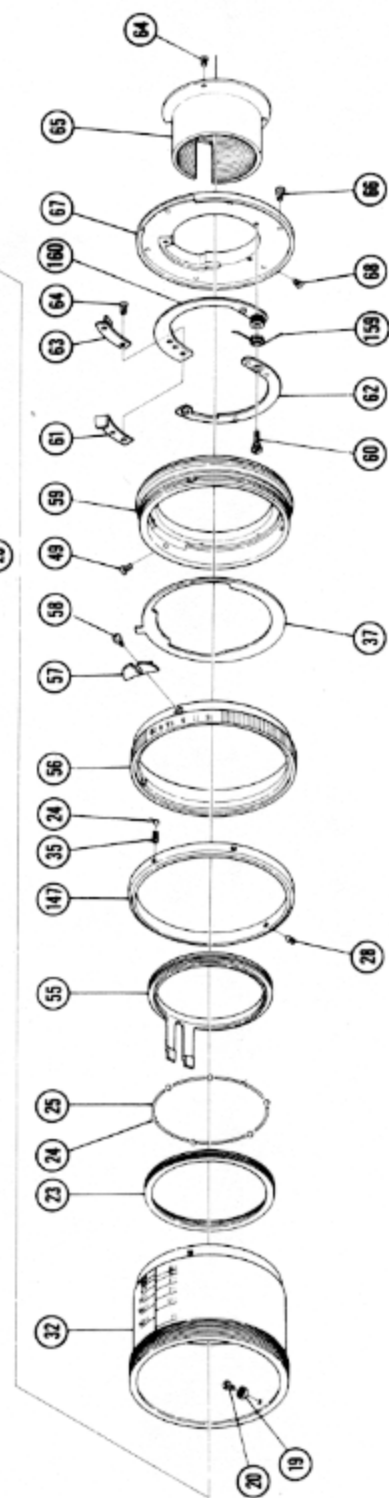
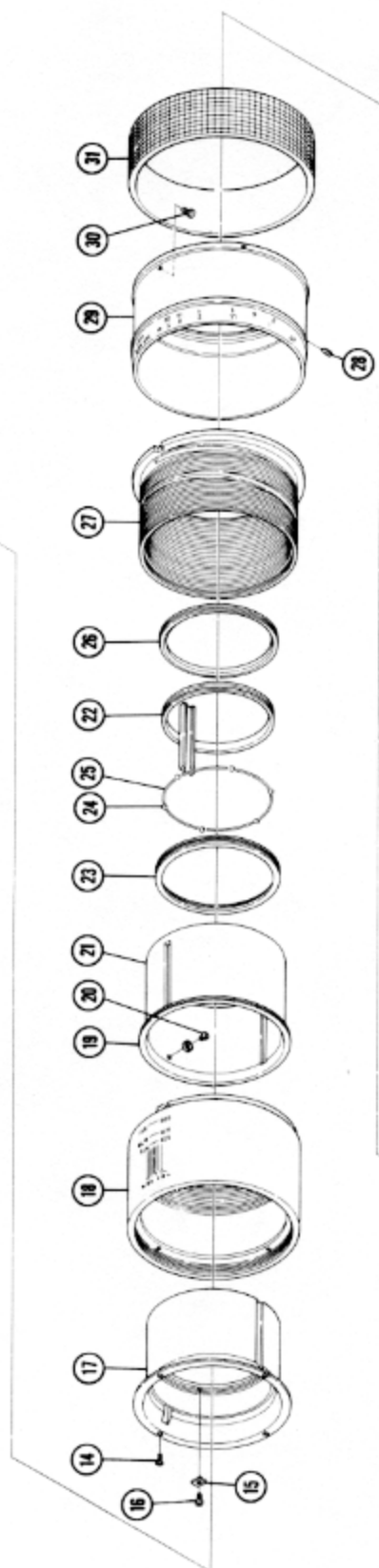
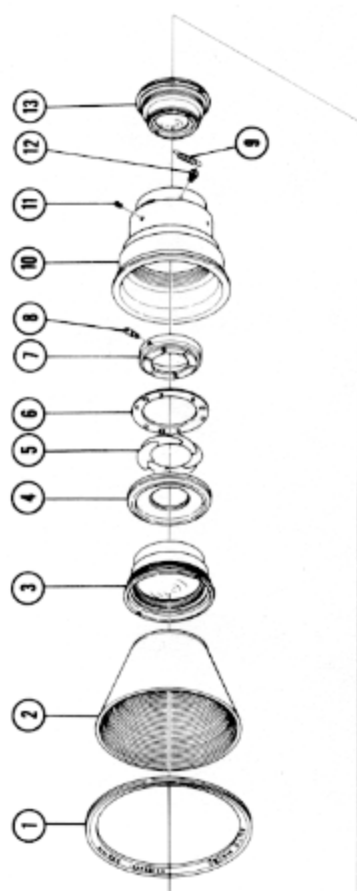


FIGURE 2

VIVITAR AUTOMATIC FIXED MOUNT LENS  
55mm F/2.8 MACRO  
MINOLTA MOUNT

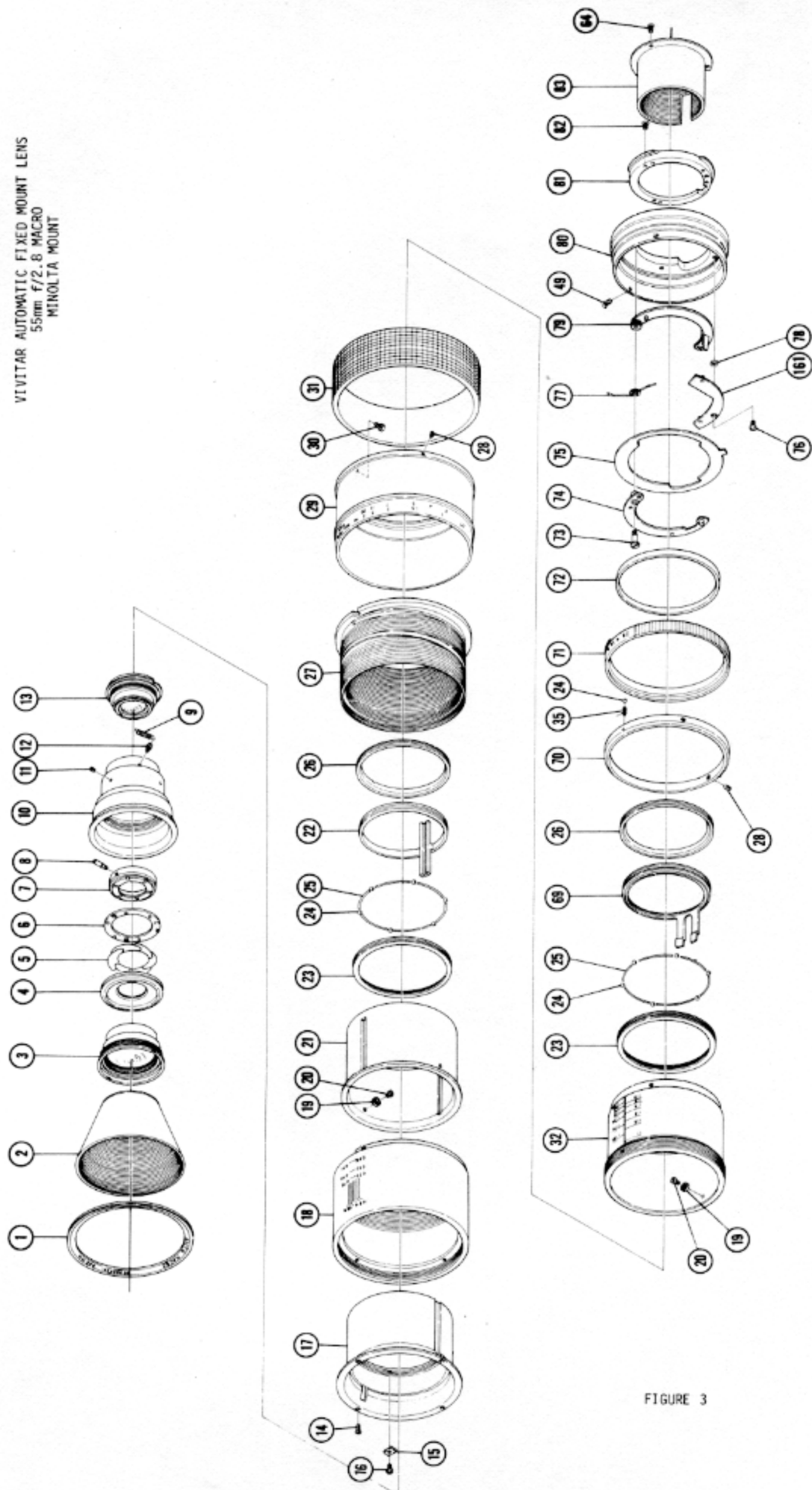


FIGURE 3

VIVITAR AUTOMATIC FIXED MOUNT LENS  
55mm f/2.8 MACRO  
CANON MOUNT

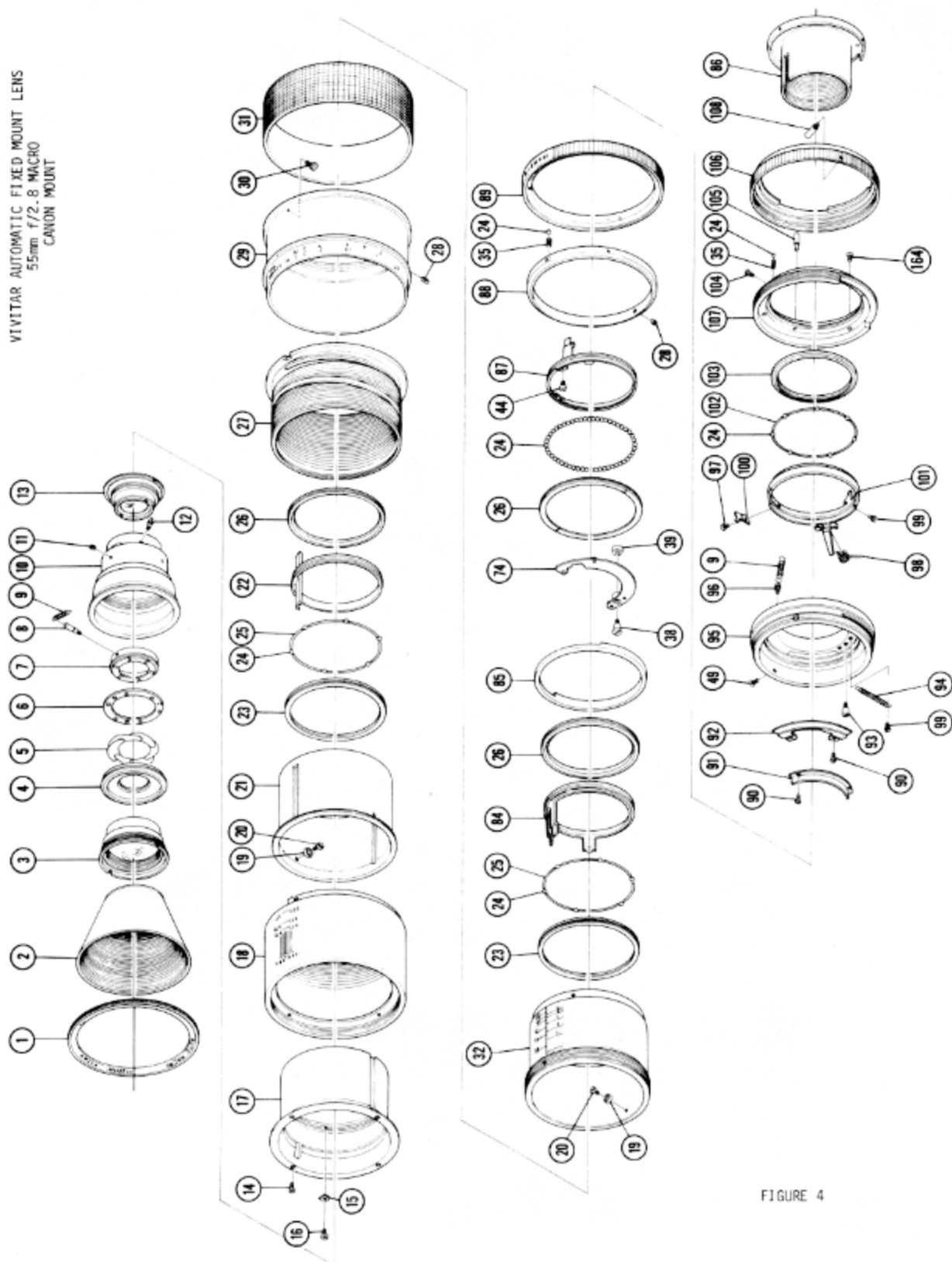


FIGURE 4

VIVITAR AUTOMATIC FIXED MOUNT LENS  
55 mm F/2.8 MACRO  
KONICA MOUNT

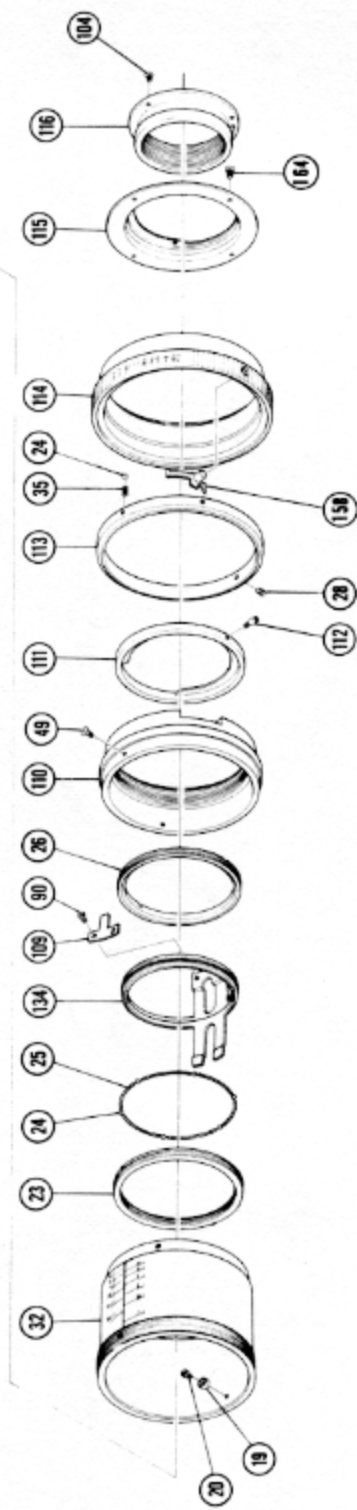
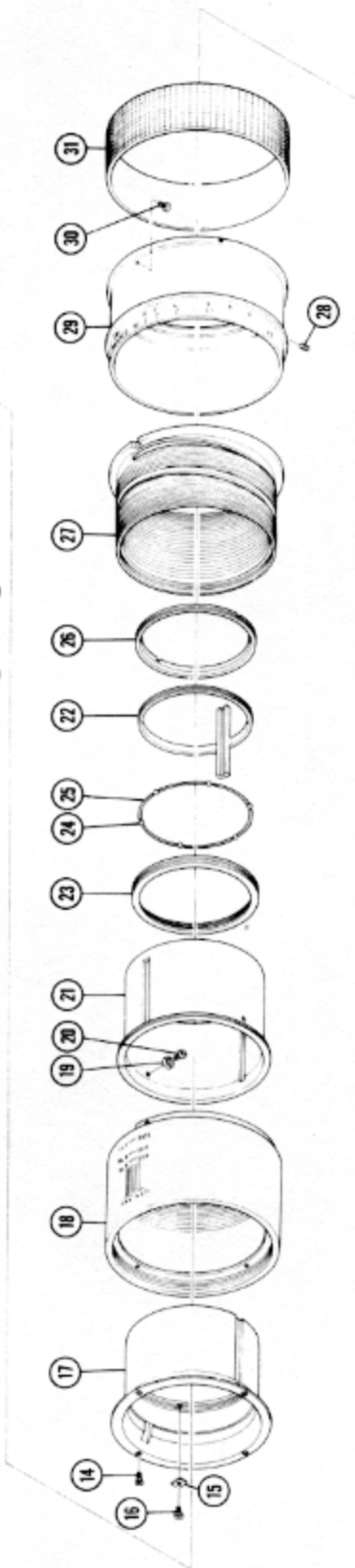
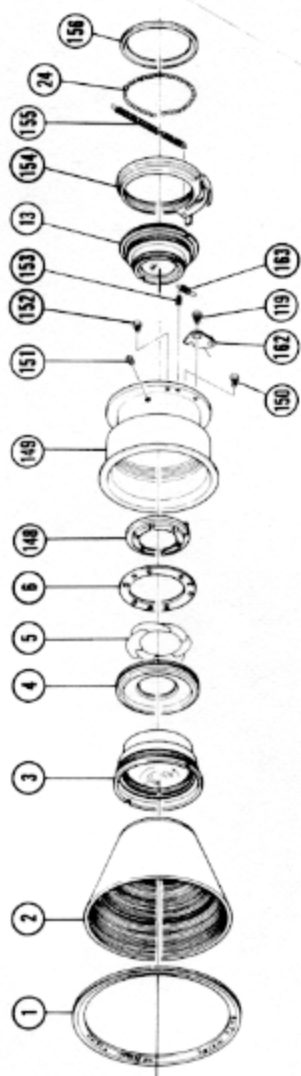


FIGURE 5

VIVITAR AUTOMATIC FIXED MOUNT LENS  
55mm F/2.8 MACRO  
OLYMPUS MOUNT

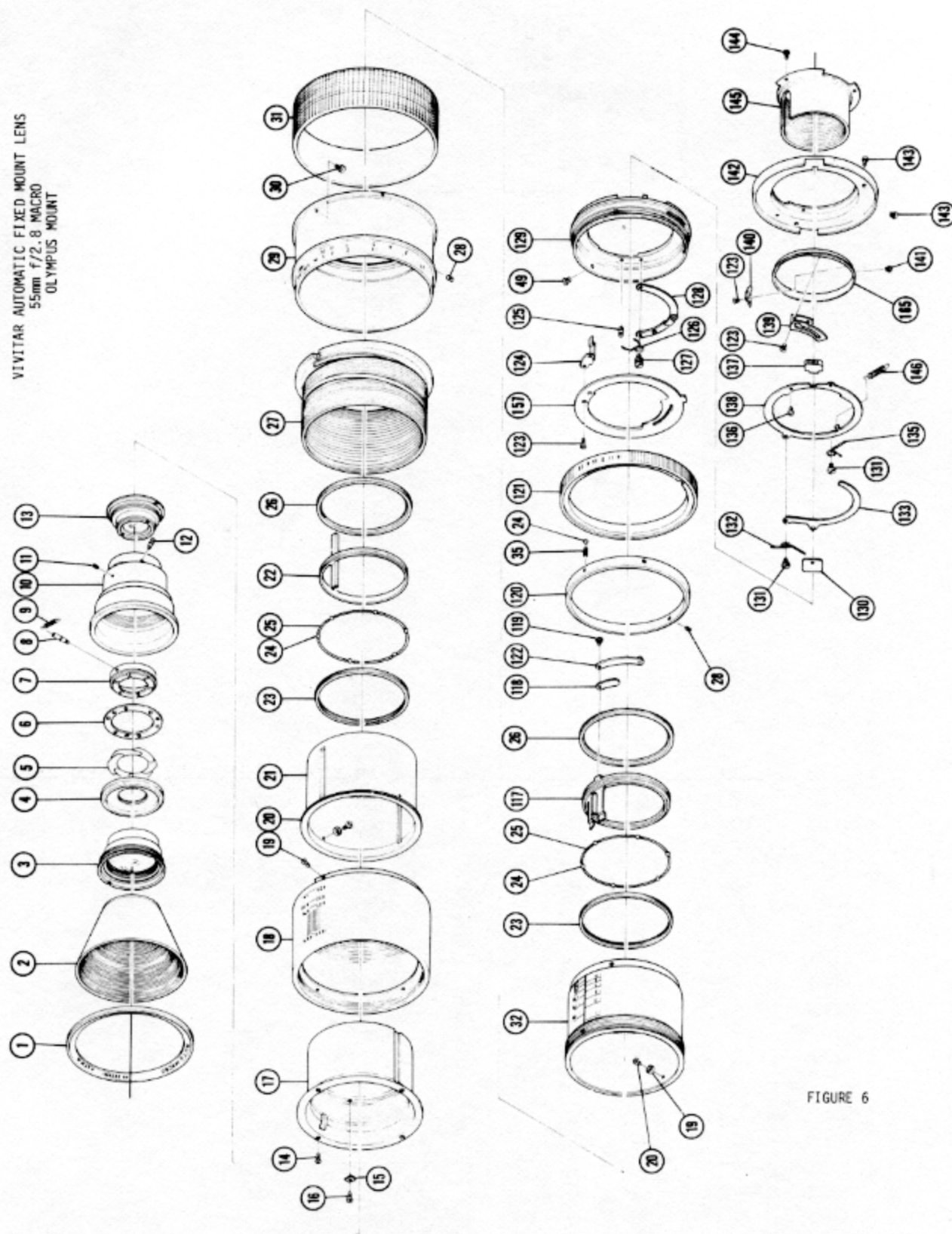


FIGURE 6

PARTS LIST  
VIVITAR AUTOMATIC FIXED MOUNT LENS  
55MM F/2.8 MACRO

For Lenses Beginning  
With S/N 28-----

| REFERENCE | DESCRIPTION                     | PART<br>NUMBER | INCLUDED IN<br>ASSEMBLY | MOUNT & QUANTITY |    |    |    |    |    |
|-----------|---------------------------------|----------------|-------------------------|------------------|----|----|----|----|----|
|           |                                 |                |                         | U                | N  | M  | C  | K  | O  |
| 1         | RING, NAME                      | 3515101        |                         | 1                | 1  | 1  | 1  | 1  | 1  |
| 2         | HOOD, INTERNAL                  | 3515102        |                         | 1                | 1  | 1  | 1  | 1  | 1  |
| 3         | LENS GROUP, FRONT, COMPLETE     | 3515103        |                         | 1                | 1  | 1  | 1  | 1  | 1  |
| 4         | RING, DIAPHRAGM BLADE RETAINER  | 3515104        |                         | 1                | 1  | 1  | 1  | 1  | 1  |
| 5         | DIAPHRAGM BLADE (SET)           | 3515105        |                         | 6                | 6  |    |    |    | 6  |
|           | DIAPHRAGM BLADE                 | 3515140        |                         |                  |    | 6  | 6  | 6  |    |
| 6         | RING, DIAPHRAGM BLADE           | 3515106        |                         | 1                | 1  | 1  | 1  | 1  | 1  |
| 7         | RING, BLADE OPERATING           | 3515107        |                         | 1                | 1  | 1  | 1  |    | 1  |
| 8         | SCREW, DIAPHRAGM OPERATING RING | 3515108        |                         | 1                | 1  | 1  | 1  |    | 1  |
| 9         | SPRING, DIAPHRAGM               | 3513043        |                         | 1                | 1  | 1  | 2  |    | 1  |
| 10        | HOUSING, DIAPHRAGM              | 3515110        |                         | 1                | 1  | 1  | 1  |    | 1  |
| 11        | SETSCREW                        | 3515111        |                         | 3                | 3  | 3  | 3  |    | 3  |
| 12        | SCREW, SPRING HOOK              | 3515112        |                         | 1                | 1  | 1  | 1  |    | 1  |
| 13        | LENS GROUP, REAR, COMPLETE      | 3515113        |                         | 1                | 1  | 1  | 1  | 1  | 1  |
| 14        | SCREW, FLAT HEAD M1.4 x 2.5     | 3513042        | 3514288                 | 4                | 4  | 4  | 4  | 4  | 4  |
| 15        | WASHER, SQUARE                  | 3513514        | 3514288                 | 3                | 3  | 3  | 3  | 3  | 3  |
| 16        | SCREW, PAN HEAD                 | 3513513        | 3514288                 | 3                | 3  | 3  | 3  | 3  | 3  |
| 17        | RING, GUIDE, NO. 1              | 3515117        | 3514288                 | 1                | 1  | 1  | 1  | 1  | 1  |
| 18        | HELICOID, FIRST                 | 3515118        | 3514288                 | 1                | 1  | 1  | 1  | 1  | 1  |
| 19        | ROLLER, GUIDE                   | 3515119        | 3514288                 | 4                | 4  | 4  | 4  | 4  | 4  |
| 20        | SHAFT, ROLLER                   | 3515120        | 3514288                 | 4                | 4  | 4  | 4  | 4  | 4  |
| 21        | RING, GUIDE, NO. 2              | 3515121        | 3514288                 | 1                | 1  | 1  | 1  | 1  | 1  |
| 22        | RING, DIAPHRAGM ACTUATING       | 3515122        | 3514288                 | 1                | 1  | 1  | 1  | 1  | 1  |
| 23        | RING, BALL RACE                 | 3515123        | 3514288-3514294         | 2                | 2  | 2  | 2  | 2  | 2  |
| 24        | BALL, STEEL 1.5φ                | 3513041        | 3514288-3514294,98      | 13               | 13 | 13 | 10 | 62 | 13 |
| 25        | SPACER                          | 3513036        | 3514288-3514294         | 12               | 12 | 12 | 12 | 12 | 12 |
| 26        | RING, BALL RETAINER             | 3515124        | 3514288-3514294,98      | 2                | 2  | 2  | 3  | 2  | 2  |
| 27        | HELICOID, SECOND                | 3515125        | 3514288-3514294         | 1                | 1  | 1  | 1  | 1  | 1  |
| 28        | SETSCREW                        | 3513039        |                         | 6                | 6  | 6  | 6  | 6  | 6  |
| 29        | RING, SCALE                     | 3515127        |                         | 1                | 1  | 1  | 1  | 1  | 1  |
| 30        | SCREW, STOP                     | 3515128        |                         | 1                | 1  | 1  | 1  | 1  | 1  |
| 31        | GRIP                            | 3515129        |                         | 1                | 1  | 1  | 1  | 1  | 1  |
| 32        | HELICOID, THIRD                 | 3515130        | 3514288                 | 1                | 1  | 1  | 1  | 1  | 1  |
| 33        | RING, ACTUATOR                  | 3515131        |                         | 1                |    |    |    |    |    |
| 34        | RING, INDEX                     | 3515132        |                         | 1                |    |    |    |    |    |
| 35        | SPRING, DETENT                  | 3513048        |                         | 1                | 1  | 1  | 1  | 2  | 2  |
| 36        | RING, DIAPHRAGM                 | 3515133        | 3514295                 | 1                |    |    |    |    |    |
| 37        | RING, DIAPHRAGM CAM             | 3515134        | 3514295,96              | 1                | 1  |    |    |    |    |
| 38        | SHAFT, CONTROL ARM              | 3513051        | 3514295,98              | 1                |    |    | 1  |    |    |
| 39        | SPACER, CONTROL ARM             | 3513053        | 3514295,98              | 1                |    |    | 1  |    |    |
| 40        | ARM, DIAPHRAGM CONTROL          | 3515135        | 3514295                 | 1                |    |    |    |    |    |

PARTS LIST  
VIVITAR AUTOMATIC FIXED MOUNT LENS

For Lenses Beginning  
With S/N 28-----

55MM F/2.8 MACRO

| REFERENCE | DESCRIPTION                 | PART<br>NUMBER | INCLUDED IN<br>ASSEMBLY | MOUNT & QUANTITY |   |   |   |   |   |
|-----------|-----------------------------|----------------|-------------------------|------------------|---|---|---|---|---|
|           |                             |                |                         | U                | N | M | C | K | O |
| 41        | SCREW, FLAT HEAD M1.4 x 3.0 | 3513583        | 3514295                 | 2                |   |   |   |   |   |
| 42        | LEVER, MANUAL               | 3513370        | 3514295                 | 1                |   |   |   |   |   |
| 43        | PLATE, MANUAL               | 3515136        | 3514295                 | 1                |   |   |   |   |   |
| 44        | SCREW, PAN HEAD             | 3513028        | 3514295,98              | 3                |   |   | 1 |   |   |
| 45        | PLATE, STOP                 | 3513057        | 3514295                 | 1                |   |   |   |   |   |
| 46        | SCREW, PAN HEAD M1.4 x 2.5  | 3513055        | 3514295                 | 2                |   |   |   |   |   |
| 47        | SPRING, DETENT              | 3513056        | 3514295                 | 1                |   |   |   |   |   |
| 48        | SHAFT, SCREW                | 3513364        | 3514295                 | 1                |   |   |   |   |   |
| 49        | SCREW, FLAT HEAD M1.7 x 3.5 | 3513355        |                         | 3                | 3 | 3 | 3 | 3 | 3 |
| 50        | RING, REAR COVER            | 3515137        | 3514295                 | 1                |   |   |   |   |   |
| 51        | MOUNT FRAME                 | 3515138        | 3514295                 | 1                |   |   |   |   |   |
| 52        | PLATE, DIAPHRAGM ACTUATOR   | 3515139        | 3514295                 | 1                |   |   |   |   |   |
| 53        | SPRING, ACTUATOR PLATE      | 3515141        | 3514295                 | 1                |   |   |   |   |   |
| 54        | PIN, DIAPHRAGM OPERATING    | 3513064        | 3514295                 | 1                |   |   |   |   |   |
| 55        | RING, ACTUATOR              | 3515142        | 3514290                 |                  | 1 |   |   |   |   |
| 56        | RING, DIAPHRAGM             | 3515143        | 3514296                 |                  | 1 |   |   |   |   |
| 57        | PLATE, DIAPHRAGM COUPLER    | 3513576        |                         |                  | 1 |   |   |   |   |
| 58        | SCREW, PAN HEAD M1.7 x 3.0  | 3513080        |                         |                  | 5 |   |   |   |   |
| 59        | MOUNT FRAME                 | 3515144        | 3514296                 |                  | 1 |   |   |   |   |
| 60        | SHAFT, SCREW                | 3513530        | 3514296                 |                  | 1 |   |   |   |   |
| 61        | ARM, FRONT COUPLING         | 3513533        | 3514296                 |                  | 1 |   |   |   |   |
| 62        | CONTROL ARM, DIAPHRAGM      | 3515145        | 3514296                 |                  | 1 |   |   |   |   |
| 63        | ARM, REAR COUPLING          | 3513535        | 3514296                 |                  | 1 |   |   |   |   |
| 64        | SCREW, FLAT HEAD M1.4 x 3.0 | 3513094        | 3514296,97              |                  | 5 | 3 |   |   |   |
| 65        | RING, REAR COVER            | 3515147        | 3514296                 |                  | 1 |   |   |   |   |
| 66        | SCREW, PAN HEAD M1.7 x 3.0  | 3513093        | 3514296                 |                  | 5 |   |   |   |   |
| 67        | NIKON MOUNT                 | 3515148        | 3514296                 |                  | 1 |   |   |   |   |
| 68        | SCREW, STOP                 | 3513092        |                         |                  | 1 |   |   |   |   |
| 69        | RING, ACTUATOR              | 3515149        | 3514291                 |                  |   | 1 |   |   |   |
| 70        | RING, INDEX                 | 3515150        |                         |                  |   | 1 |   |   |   |
| 71        | RING, DIAPHRAGM             | 3515151        |                         |                  |   | 1 |   |   |   |
| 72        | RING, SPACER                | 3515152        | 3514297                 |                  |   | 1 |   |   |   |
| 73        | SHAFT, SCREW                | 3513099        | 3514297                 |                  |   | 1 |   |   |   |
| 74        | ARM, DIAPHRAGM CONTROL      | 3515153        | 3514297,98              |                  |   | 1 | 1 |   |   |
| 75        | RING, DIAPHRAGM CAM         | 3515154        | 3514297                 |                  |   | 1 |   |   |   |
| 76        | SCREW, FLAT HEAD M1.4 x 3.5 | 3513542        | 3514297                 |                  |   |   |   |   | 6 |
| 77        | SPRING, CONTROL ARM         | 3513102        | 3514297                 |                  |   | 1 |   |   |   |
| 78        | SPACER, CONTROL ARM         | 3513546        | 3514297                 |                  |   | 1 |   |   |   |
| 79        | ARM, CONTROL                | 3513104        | 3514297                 |                  |   | 1 |   |   |   |
| 80        | MOUNT FRAME                 | 3515155        | 3514297                 |                  |   | 1 |   |   |   |

PARTS LIST  
VIVITAR AUTOMATIC FIXED MOUNT LENS  
55MM F/2.8 MACRO

For Lenses Beginning  
With S/N 28-----

| REFERENCE | DESCRIPTION                 | PART<br>NUMBER | INCLUDED IN<br>ASSEMBLY | MOUNT & QUANTITY |   |   |   |   |     |
|-----------|-----------------------------|----------------|-------------------------|------------------|---|---|---|---|-----|
|           |                             |                |                         | U                | N | M | C | K | O   |
| 81        | MINOLTA MOUNT               | 3515156        | 3514297                 |                  |   |   |   |   | 1   |
| 82        | SCREW, FLAT HEAD            | 3515157        | 3514297                 |                  |   |   |   |   | 3   |
| 83        | RING, REAR COVER            | 3515158        | 3514297                 |                  |   |   |   |   | 1   |
| 84        | RING, ACTUATOR              | 3515159        | 3514292                 |                  |   |   |   |   | 1   |
| 85        | RING, STOP                  | 3515160        | 3514298                 |                  |   |   |   |   | 1   |
| 86        | RING, REAR COVER            | 3515161        | 3514298                 |                  |   |   |   |   | 1   |
| 87        | RING, DIAPHRAGM SETTING     | 3513258        | 3514298                 |                  |   |   |   |   | 1   |
| 88        | RING, INDEX                 | 3515162        |                         |                  |   |   |   |   | 1   |
| 89        | RING, DIAPHRAGM             | 3515163        | 3514298                 |                  |   |   |   |   | 1   |
| 90        | SCREW, FLAT HEAD M1.4 x 2.0 | 3513019        | 3514298                 |                  |   |   |   |   | 4   |
| 91        | GUIDE, SPRING               | 3513138        | 3514298                 |                  |   |   |   |   | 1   |
| 92        | PLATE, CAM                  | 3515164        | 3514298                 |                  |   |   |   |   | 1   |
| 93        | SCREW, STOP                 | 3515165        | 3514298                 |                  |   |   |   |   | 1   |
| 94        | SPRING, OPERATING           | 3513151        | 3514298                 |                  |   |   |   |   | 1   |
| 95        | MOUNT FRAME                 | 3515166        | 3514298                 |                  |   |   |   |   | 1   |
| 96        | SCREW, SPRING HOOK          | 3513090        | 3514298                 |                  |   |   |   |   | 1   |
| 97        | SCREW, PLATE                | 3513149        | 3514298                 |                  |   |   |   |   | 2   |
| 98        | SPRING, MANUAL LEVER        | 3513260        | 3514298                 |                  |   |   |   |   | 1   |
| 99        | SCREW, SPRING HOOK          | 3513152        | 3514298                 |                  |   |   |   |   | 2   |
| 100       | PLATE, SPRING HOOK          | 3513271        | 3514298                 |                  |   |   |   |   | 1   |
| 101       | RING, MANUAL                | 3515167        | 3514298                 |                  |   |   |   |   | 1   |
| 102       | SPACER                      | 3513148        | 3514298                 |                  |   |   |   |   | 7   |
| 103       | RING, BALL RETAINER         | 3513567        | 3514298                 |                  |   |   |   |   | 1   |
| 104       | SCREW, FLAT HEAD M1.4 x 2.2 | 3513189        | 3514298,99              |                  |   |   |   |   | 3 3 |
| 105       | PIN, DISCRIMINATION         | 3513156        | 3514298                 |                  |   |   |   |   | 1   |
| 106       | RING, LOCK                  | 3513429        | 3514298                 |                  |   |   |   |   | 1   |
| 107       | MOUNT                       | 3513144        | 3514298                 |                  |   |   |   |   | 1   |
| 108       | SCREW, SIGNAL               | 3513420        | 3514298                 |                  |   |   |   |   | 1   |
| 109       | LEVER, ACTUATOR             | 3513117        |                         |                  |   |   |   |   | 1   |
| 110       | MOUNT FRAME                 | 3513458        | 3514299                 |                  |   |   |   |   | 1   |
| 111       | RING, STOP                  | 3513558        | 3514299                 |                  |   |   |   |   | 1   |
| 112       | SCREW, STOP RING            | 3513123        | 3514299                 |                  |   |   |   |   | 1   |
| 113       | RING, INDEX                 | 3515168        |                         |                  |   |   |   |   | 1   |
| 114       | RING, DIAPHRAGM             | 3515169        | 3514299                 |                  |   |   |   |   | 1   |
| 115       | KONICA MOUNT                | 3513124        | 3514299                 |                  |   |   |   |   | 1   |
| 116       | RING, REAR COVER            | 3515170        | 3514299                 |                  |   |   |   |   | 1   |
| 117       | RING, ACTUATOR              | 3515171        |                         |                  |   |   |   |   | 1   |
| 118       | WASHER, PRESSURE            | 3513155        |                         |                  |   |   |   |   | 1   |
| 119       | SCREW                       | 3513071        |                         |                  |   |   |   |   | 1   |
| 120       | RING, INDEX                 | 3515172        |                         |                  |   |   |   |   | 1   |

PARTS LIST  
VIVITAR AUTOMATIC FIXED MOUNT LENS  
55MM F/2.8 MACRO

For Lenses Beginning  
with S/N 28-----

| REFERENCE | DESCRIPTION                      | PART<br>NUMBER | INCLUDED IN<br>ASSEMBLY | MOUNT & QUANTITY |   |   |   |   |   |
|-----------|----------------------------------|----------------|-------------------------|------------------|---|---|---|---|---|
|           |                                  |                |                         | U                | N | M | C | K | O |
| 121       | RING, DIAPHRAGM                  | 3515173        | 3514300                 |                  |   |   |   |   | 1 |
| 122       | LINK, OPERATING                  | 3513158        |                         |                  |   |   |   |   | 1 |
| 123       | SCREW, FLAT HEAD                 | 3513161        | 3514300                 |                  |   |   |   |   | 6 |
| 124       | LEVER, COUPLING                  | 3513165        | 3514300                 |                  |   |   |   |   | 1 |
| 125       | SCREW, SPRING HOOK               | 3513166        | 3514300                 |                  |   |   |   |   | 1 |
| 126       | SPRING, DIAPHRAGM CONTROL ARM    | 3513164        | 3514300                 |                  |   |   |   |   | 1 |
| 127       | SHAFT, DIAPHRAGM CONTROL ARM     | 3513163        | 3514300                 |                  |   |   |   |   | 1 |
| 128       | ARM, DIAPHRAGM CONTROL           | 3513167        | 3514300                 |                  |   |   |   |   | 1 |
| 129       | MOUNT FRAME                      | 3515174        | 3514300                 |                  |   |   |   |   | 1 |
| 130       | BUTTON, MANUAL                   | 3513169        | 3514300                 |                  |   |   |   |   | 1 |
| 131       | SHAFT, MANUAL DIAPHRAGM ARM      | 3513170        | 3514300                 |                  |   |   |   |   | 2 |
| 132       | SPRING, BUTTON RETURN            | 3513182        | 3514300                 |                  |   |   |   |   | 1 |
| 133       | ARM, MANUAL DIAPHRAGM            | 3513172        | 3514300                 |                  |   |   |   |   | 1 |
| 134       | RING, ACTUATOR                   | 3515175        | 3514293                 |                  |   |   |   |   | 1 |
| 135       | SPRING, LOCK BUTTON              | 3513174        | 3514300                 |                  |   |   |   |   | 1 |
| 136       | SCREW, PAN HEAD M1.4 x 1.8       | 3513344        | 3514300                 |                  |   |   |   |   | 2 |
| 137       | BUTTON, LOCK                     | 3513173        | 3514300                 |                  |   |   |   |   | 1 |
| 138       | RING, MANUAL DIAPHRAGM OPERATING | 3513183        | 3514300                 |                  |   |   |   |   | 1 |
| 139       | CAM, MANUAL OPERATING            | 3513184        | 3514300                 |                  |   |   |   |   | 1 |
| 140       | LEVER, DIAPHRAGM SETTING         | 3513182        | 3514300                 |                  |   |   |   |   | 1 |
| 141       | SCREW, STOP                      | 3513181        | 3514300                 |                  |   |   |   |   | 1 |
| 142       | OLYMPUS MOUNT                    | 3513178        | 3514300                 |                  |   |   |   |   | 1 |
| 143       | SCREW, PAN HEAD M2.0 x 3.0       | 3513179        | 3514300                 |                  |   |   |   |   | 3 |
| 144       | SCREW, FLAT HEAD                 | 3513193        | 3514300                 |                  |   |   |   |   | 3 |
| 145       | RING, REAR COVER                 | 3515176        | 3514300                 |                  |   |   |   |   | 1 |
| 146       | SPRING, MANUAL DIAPHRAGM RING    | 3513176        | 3514300                 |                  |   |   |   |   | 1 |
| 147       | RING, INDEX                      | 3515177        |                         |                  |   |   |   |   | 1 |
| 148       | RING, BLADE OPERATING            | 3515178        |                         |                  |   |   |   |   | 1 |
| 149       | HOUSING, DIAPHRAGM               | 3515179        |                         |                  |   |   |   |   | 1 |
| 150       | SCREW, SMALL                     | 3513552        |                         |                  |   |   |   |   | 1 |
| 151       | SCREW, STOP                      | 3513023        |                         |                  |   |   |   |   | 3 |
| 152       | SCREW, CAM STOP                  | 3513582        |                         |                  |   |   |   |   | 1 |
| 153       | SCREW, SPRING HOOK               | 3513185        |                         |                  |   |   |   |   | 1 |
| 154       | RING, DIAPHRAGM CAM              | 3515180        |                         |                  |   |   |   |   | 1 |
| 155       | SPRING, OPERATING                | 3513397        |                         |                  |   |   |   |   | 1 |
| 156       | RING, BALL RETAINER              | 3515181        |                         |                  |   |   |   |   | 1 |
| 157       | RING, DIAPHRAGM CAM              | 3515182        | 3514300                 |                  |   |   |   |   | 1 |
| 158       | BUTTON, LOCK                     | 3513120        | 3514299                 |                  |   |   |   |   | 1 |
| 159       | SPRING, CONTROL ARM              | 3513531        | 3514296                 |                  |   |   |   |   | 1 |
| 160       | ARM, DIAPHRAGM CONTROL           | 3513534        | 3514296                 |                  |   |   |   |   | 1 |

PARTS LIST  
VIVITAR AUTOMATIC FIXED MOUNT LENS  
55MM F/2.8 MACRO

For Lenses Beginning  
With S/N 28-----

| REFERENCE | DESCRIPTION               | PART<br>NUMBER | INCLUDED IN<br>ASSEMBLY | MOUNT & QUANTITY |   |   |   |   |   |
|-----------|---------------------------|----------------|-------------------------|------------------|---|---|---|---|---|
|           |                           |                |                         | U                | N | M | C | K | O |
| 161       | PLATE, CONTROL ARM MOVING | 3513545        |                         |                  |   |   |   |   | 1 |
| 162       | PLATE, SECTOR             | 3513070        |                         |                  |   |   |   |   | 1 |
| 163       | SPRING, BLADE RING        | 3513187        |                         |                  |   |   |   |   | 1 |
| 164       | SCREW, FLAT HEAD          | 3513125        | 3514299                 |                  |   |   |   |   | 3 |
| 165       | RING, DIAPHRAGM ACTUATING | 3515183        | 3514300                 |                  |   |   |   |   | 1 |

ASSEMBLIES

| DESCRIPTION       | PART<br>NUMBER | MODEL     |
|-------------------|----------------|-----------|
| HELICOID ASSEMBLY | 3514288        | ALL       |
| ACTUATOR ASSEMBLY | 3514289        | UNIVERSAL |
| ACTUATOR ASSEMBLY | 3514290        | NIKON     |
| ACTUATOR ASSEMBLY | 3514291        | MINOLTA   |
| ACTUATOR ASSEMBLY | 3514292        | CANON     |
| ACTUATOR ASSEMBLY | 3514293        | KONICA    |
| ACTUATOR ASSEMBLY | 3514294        | OLYMPUS   |
| MOUNT ASSEMBLY    | 3514295        | UNIVERSAL |
| MOUNT ASSEMBLY    | 3514296        | NIKON     |
| MOUNT ASSEMBLY    | 3514297        | MINOLTA   |
| MOUNT ASSEMBLY    | 3514298        | CANON     |
| MOUNT ASSEMBLY    | 3514299        | KONICA    |
| MOUNT ASSEMBLY    | 3514300        | OLYMPUS   |

# Vivitar

**boggy**

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