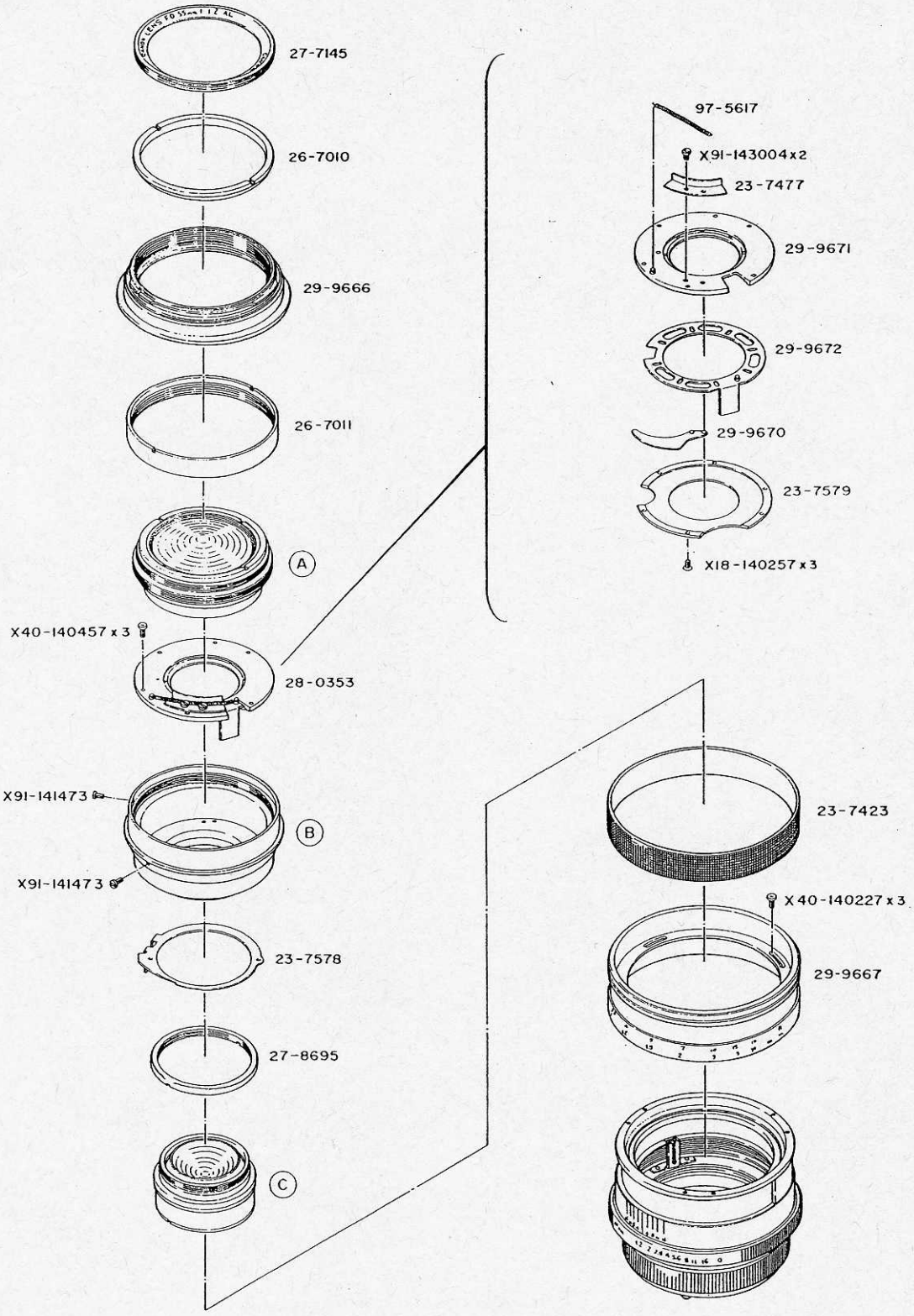
CANON REPAIR GUIDE

FD LENSES



PREFACE

This Repair Guide is issued to insure the continued high quality of the CANON FD Lenses through correct repair procedures.

This Guide consists of four sections: Introduction, Disassembly, Replacement and Adjustment and the Appendix.

If any repairs are required, refer to this Guide. Any comments or suggestions concerning this Guide will be appreciated.

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Introduction

1. Since more functions have been added to FD Lens than FL Lens (an open aperture metering system and EE photography) the repair and checking procedures have increased accordingly. When repairing FD lenses, extreme care must be excercised to maintain the original precision.

   1.1 Aperture diameter

   Because this FD lens employs an open aperture metering system, errors in the aperture diameter result in exposure errors. It is, therefore, necessary to control the aperture diameter accuracy much more strictly than previously.

   1.2 Aperture signal lever

   The accuracy of this lever also has direct effect on that of the exposure meter. A special tool (FD Lever gauge-3) is required to check its position. (As the meter accuracy of the camera is to be measured after the lens is installed, when adjusting the meter the position of the aperture signal lever should be checked.)

   1.3 Maximum aperture correction pin

   This pin is mounted on the rear cover. Therefore, when replacing the rear cover, the head of the signal pin should be cut to the specified height. (See Para. 2.5)

2. All FD lenses have basically the same construction, and in this repair guide, explanation will be made using the FD 50mm 1:1.4 as the example.

3. A hand fitted lens spacing system is employed for the following lenses, so the lens system must be replaced as a unit:

   FD 17mm 1:4 FD 24mm 1:2.8 FD 28mm 1:3.5
   FD 35mm 1:2 FD 35mm 1:3.5

4. For the following lenses, positioning the front lens unit should be carried out because they have the "Full Range Aberration-Free System". This system consists of a second helicoid in the front lens group.

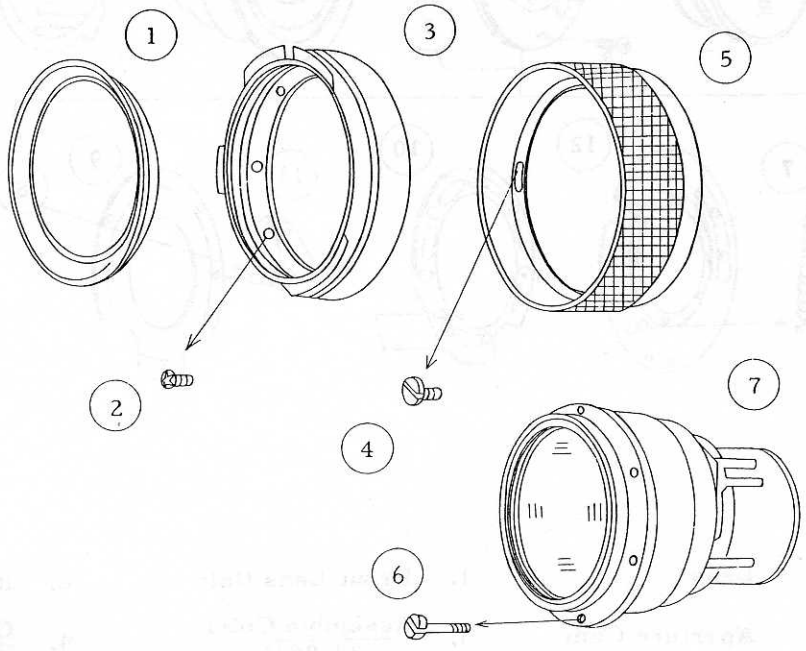
   FD 17mm 1:4 FD 24mm 1:28 FD 35mm 1:2

Note: Hand fitted system:

The individual lens elements are hand fitted and spaced at the factory. The tools and test equipment necessary are extremely costly so these lens systems are supplied as a unit only.

1. Disassembly

1.1 Lens Barrel



1.	Front Ring	1.	Name Ring 27-7122	2.	Screw X40-170307 x 3
		3.	Front Ring 29-9569		
2.	Focusing Ring	4.	Screw X40-140257 x 3	5.	Focusing Ring 29-9663
3.	Lens Barrel	6.	Screw X91-172490 x 3	7.	Lens Barrel