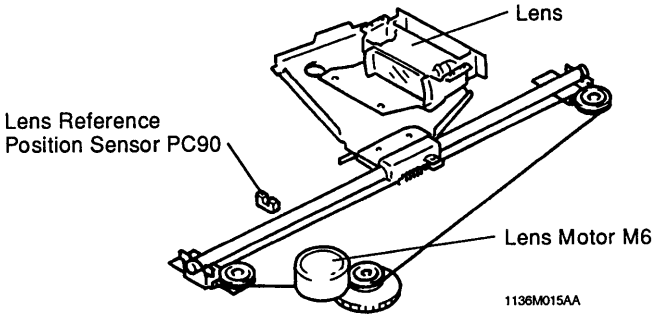
9-7. Lens Drive Mechanism/Control

(1) Lens Drive Mechanism

- The Lens is moved by the Lens Drive Cable to which drive is transmitted from Lens Motor M6.
- A two-phase stepping motor is used for M6. The Motor is turned forward or backward by the pulse signals output from SCP Board PWB-J, thus moving the Lens in either the reduction or enlargement direction.
- When a zoom ratio is selected, pulse signals from PWB-J are input to the Lens Motor. The Motor's shaft turns 7.5° per step, which is equivalent to approx. 0.2 mm of linear Lens movement.



- In this copier, registration for the original is determined at the rear left corner, while that for the PC Drum is at the front side. For this reason, there is a Lens Position Correction Cam that moves the Lens slantwise.
- The Lens Moving Plate moves linearly on a shaft, while the Lens Holder is movable on the Lens Moving Plate.
- The one roll of the Lens Holder is fitted in the groove of the Lens Position Correction Cam via slits in the Lens Moving Plate. This means that the Lens Holder moves along a curved trajectory which is drawn by the Lens Position Correction Cam, though the Lens Moving Plate makes a linear motion.

