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ISW

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[1] Description of the ISW

ISW (In-System Writer) is an operation rewriting control programs stored in the flash ROM included in the diverse control board of a Konica digital copier with the board still installed in the copier main body.

By implementing ISW you can update versions of control programs without changing the board or carry out maintenance of the control board when changing the board.

Two ISW execution tools are prepared. One is the “ISW Trns” (PC software) that implements rewriting by connecting a personal computer (PC) and a digital copier. And, the other is the specialized “ISW Tool” featuring EPROM. These tools allow direct rewriting of the control program in the flash ROM included in the copier main body by connecting the ISW connector of the copier main body.

This document describes only the setup procedures required for the 7020 series to execute the ISW. For the operation of the “ISW Trns” and “ISW Tool,” refer to the “Konica ISW (In-System Writer) Instruction Manual.”

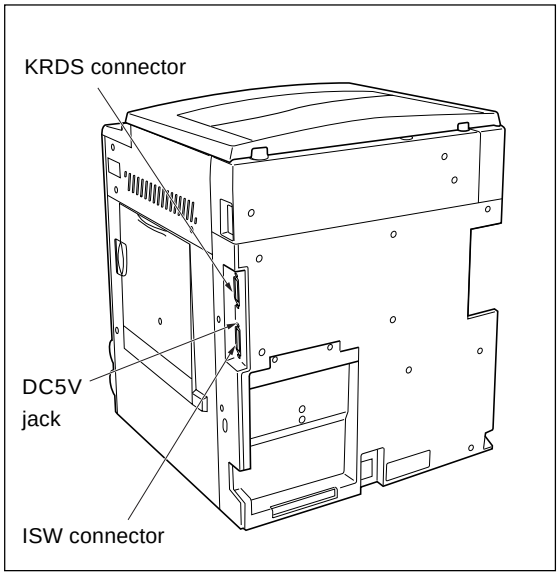
Caution: The “Konica ISW (In-System Writer) Instruction Manual” describes three different data rewriting approaches to be executed by the ISW Tool. Applicable approach depends on the given model of the copier. As for this copier, reference the “Type B Rewrite Operation.”

[2] Operating method

1. ISW connector

The ISW connector is provided on the right side face of the copier. Of the two connectors situated in the side face, the lower one is the ISW connector.

The connector for the “ISW Tool” is installed between the ISW connector (36-pin) and the KRDS connector (25-pin). The cap or seal that covers each connector must be removed before the connector can be used.



2. Preparing the printer for transfer

Before operating the ISW, maintain the copier in standby mode until the ISW transfer is complete.

Step	Operation procedure
1	Enter the 25 mode.
2	**[25 mode screen]** Press the [11. ISW] key.
3	**[ISW menu screen]** Select the ROM where the ROM data to be rewritten.
4	**[Program rewrite screen]** Pressing [START] key after [START] key is displayed, cause the machine to be data waiting condition.
5	Execute the operation according to the procedures specified in the "Konica ISW (In-System Writer) Instruction Manual."

3. Types and quantity of rewrite ROM

When rewriting the copier flash ROM data using the “ISW Tool,” rewriting EPROM must be prepared.

The following table lists rewriting EPROM prepared for this machine.

Note: Quantity of the rewriting EPROM and transfer file sze are subject to change without previous notice.

Target control program	Quantity of ROM	ISW trns file size (• bin file)
Overall control	17	Approx. 5.5 MB
Image control	2	Approx. 0.6 MB
RADF control	1	Approx. 0.1 MB
FNS control	1	Approx. 0.2 MB
FAX control	2	Approx. 0.6 MB

4. Rewrite precautions using the “ISW Tool”

Total control ROM rewrite

The rewrite operation must be performed to divide the EPROM of the overall control ROM into two groups for the 12 items indicated above. The timing (first time data transfer end timing) for the second time the rewrite operations is performed is as follows.

The data LED (green) of the operation part changes from flashing to lighting.

The remaining EPROM is transferred to the “ISW Tool” and the ROM data is transferred.

The LCD goes off during data transfer.

When data transfer is ended, the 25 mode menu screen is displayed.

If an error occurs in the second ROM data transfer, perform the operation again from the beginning (first time).

5. Data transfer error

The FAX LED (amber) lamp lights if a transfer error occurs. If an error occurs, refer to the section "Error handling" in the separate “ISW Service Handbook” and perform the appropriate countermeasures. After the countermeasures are completed, perform the rewrite operation again from the beginning.