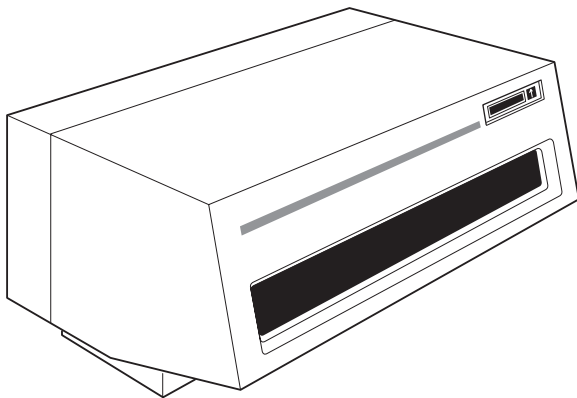


GE
Inspection Technologies

NDT FEEDER

Instruction manual



GE imagination at work

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1. INDEX

<i>Term</i>	<i>Display message</i>	<i>Explanation (Chapter)</i>
CHECK	X	Automatic functional check after switching on the feeder (5.1).
COUNTER 1	X	Number of cycles the feeder has made since installation (5.4).
CURRENT	X	Torque setting (5.2).
EMPTY	X	Magazine is empty, all films are inserted (6.1.1).
EXIT	X	Ending the change of program (5.3).
ERROR XX	X	Feeder is unable to work properly. Error number is displayed (7).
FLIPTOP MAGAZINE	–	Magazine with a fliptop lid (3.3, 6.1.2, fig. 3).
FILM	X	The feeder is inserting film into the processor (6.1.1, 6.1.2).
↑↑FILM↑↑	X	Films may be added in the fliptop magazine (6.2).
LANGUAGE	X	English, French or German may be selected (5.3).
LAST ERROR	X	Last error occurred on the feeder (5.4.2).
LEVEL 1 (2,3,4)	X	Levels of the drive motor current (5.2).
LIMITATION LINE	–	Maximum level of films that may be loaded in the magazine (fig. 6).
LS-1 (2,3,4)	X	Film track where the feeder can not separate 2 films (7).
MAGAZINE	X	Standard setting. A magazine may be inserted or program changes may be made (5, 6.1.1, 6.1.2, 7).
MGV X	X	Failure on solenoid valve X (7).
OK	X	Universal magazine is inserted and unlocked (6.1.1).
OK-S-MAG	X	Fliptop magazine is inserted and unlocked (6.1.2).
PLUG IN BAR	–	Adjusting the film width (fig. 6).
RESET 3,2,1	X	Resolving errors, the display will count down from 3 to 1 (7).
SPEED	X	Adjusting the feeder speed (5.1).
STOP BRACKET	–	Adjusting the length of the film (fig. 6).
UNIVERSAL MAGAZINE	–	Portable magazine (3.2, 6.1.1, fig. 2).
WAIT	X	Feeder is inserting films. Wait before loading new films (6.2).
2-FILMS	X	Feeder can not separate 2 films (7).

X : Indicates that the term in the first column is a display message.

– : Indicates that the term in the first column is not a display message.



2. SAFETY MEASURES AND IMPORTANT NOTES

Check that the following safety measures have been taken before bringing the NDT FEEDER into use:

- Make sure the NDT FEEDER is installed in a place where it can be constantly observed.
- When installing the NDT FEEDER, make sure that the mains plug or the on/off switch of the NDT FEEDER are easily accessible, or that a multi-pole isolating switch is close to the feeder.
- Do not bypass or disable the incorporated safety measures.
- Before bringing the NDT FEEDER into operation, it is necessary to adapt the feeder speed to the processor speed.
- Always disconnect the NDT FEEDER from the mains and remove it from the processor before carrying out service or maintenance.
- Installation, troubleshooting, electrical or mechanical repairs may only be carried out by GE Inspection Technologies authorized service personnel.

IMPORTANT:

If the NDT FEEDER remains on the processor, do not disconnect the feeder from the mains at the end of a working day.

Disconnecting the feeder would also switch off the fan (fig.1,5). This would allow chemical vapours and dust to accumulate inside and damage both the equipment and the processed films.

3. GENERAL DESCRIPTION

3.1 THE NDT FEEDER

The NDT FEEDER is designed for fully automatic transfer of films into the NDT processors. "Fully automatic" implies that user intervention is restricted to an absolute minimum.

The NDT FEEDER processes all the common X-ray film sizes used in industrial radiography. It is installed on the processor with an appropriate adaptor (fig. 1,1) for processor type:

- type 5204 / 300 for NDT 3 and NDT 1,
- type 5204 / 310 for NDT RF.

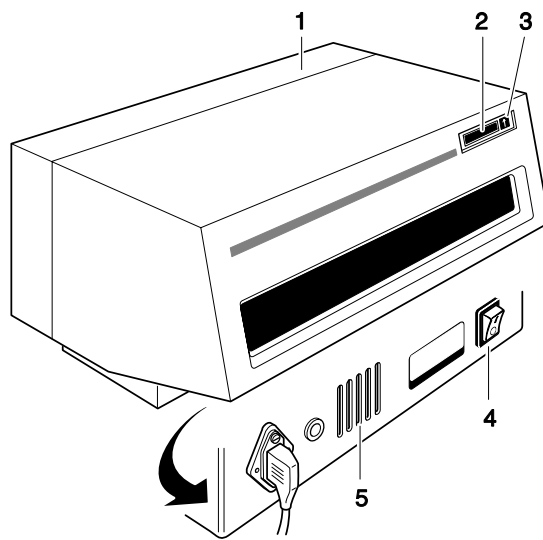



Figure 1 - Main components

All you need to do, after adapting the speed, is to switch on the NDT FEEDER by means of the on/off switch (fig. 1,4), insert the films in the magazine (fig. 2 & 3) and press the  key (fig. 1,3).

The NDT FEEDER will automatically empty the magazine and transfer the films into the processor. The display messages (fig. 1,2) will keep you informed of the status.

The NDT FEEDER accepts universal (fig. 2) and fliptop magazines (fig. 3).

3.2 THE UNIVERSAL MAGAZINE

The universal magazine has been specially designed for situations in which you have to transport exposed films.

Grouped by project or by work piece, the magazine can easily be loaded in the darkroom. Two unlock buttons (fig. 2,1) prevent opening of the magazine while it is being transported.

Once the universal magazine is closed, it acts as a perfect miniature darkroom so that all further activities can take place in daylight.

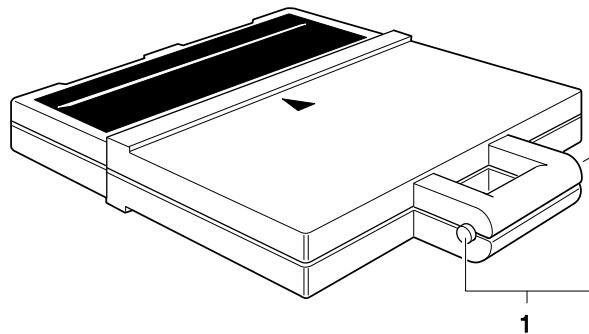


Figure 2 - Universal magazine

3.3 THE FLIPTOP MAGAZINE

The fliptop magazine remains installed in the NDT FEEDER. It can be opened by pressing the unlock button (fig. 3,1).

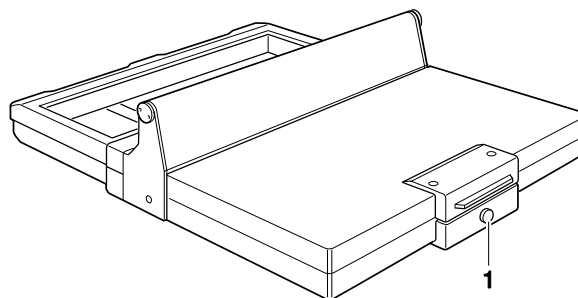


Figure 3 - Fliptop magazine

4. INSTALLATION

A GE Inspection Technologies qualified service engineer will ensure that the NDT FEEDER is installed according to the required specifications, the prefunctional actions and in accordance with the relevant safety measures.

Apart from a separate power supply from a wall socket, no further connections are necessary.

For additional information please refer to the publications "Installation planning, Specifications and Installation Instructions".

5. PREFUNCTIONAL ACTIONS

5.1 ADJUSTING THE NDT FEEDER SPEED TO THE PROCESSOR SPEED

Before bringing the NDT FEEDER into operation, it is **essential** that the feeder speed and processor speed are synchronised.

IMPORTANT:

Any discrepancy between the feeder and the processor speed may result in damage to the equipment or the film.

Before adjusting the feeder speed, first check the exact processor speed (calculated in cm/min).

Proceed as follows to determine the exact processor speed (fig. 4):

1. Take a cleaning film (fig. 4,1) of preferably at least 30 cm length.
2. Draw a line on minimum 10 cm from the feeding edge of the film (fig. 4,2).
3. Draw a second line on minimum 10 cm from the first one.
4. Measure the exact distance (a) in centimetres between both lines.
5. Take a stopwatch and feed the film into the processor.
6. Start the stopwatch when the first line disappears.
7. Stop the stopwatch when the second line disappears.
8. Write down the time (b) in seconds.
9. Calculate the processor speed by means of the following formula:
Processor speed = $(a \times 60)/b$, in cm/min
10. We advise repeating this test 2 or 3 times to avoid inaccuracies.

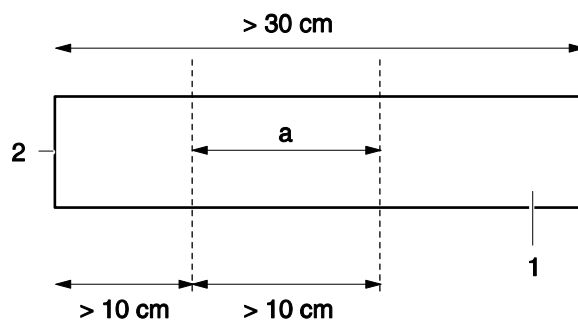


Figure 4 - Calculating the processor speed

The corresponding feeder speed should be about 2% slower than the processor speed, ensuring the film is always under a slight tension. The standard settings of the processors are listed below:

<i>Processor type</i>	<i>Standard processing cycle (minutes)</i>	<i>Standard processor speed (cm/min)</i>	<i>Corresponding Feeder speed (cm/min)</i>
NDT RF	8	23	22.5
NDT 1	8	23	22.5
NDT 3	7	45	44.0

After determining the exact processor speed, proceed as follows to adjust the NDT FEEDER speed:

- Switch the feeder on without magazine inserted.
The feeder will carry out a check, which is shown on the display: CHECK.
After the check, the display returns the following message: MAGAZINE.
- Hold the **↑** key down (beep tone) for approximately **10 seconds**.
When the display shows SPEED, release the **↑** key.
The display will show the current feeder speed setting, alternately followed by EX and SET, e.g.: 022.5 EX and 022.5 SET.
- To exit the procedure and “store” the displayed value, press the **↑** key when the feeder speed is followed by EX.
After flashing 3 times, the value is stored and the display returns to the message MAGAZINE.
- To adjust the feeder speed setting, press the **↑** key when SET appears on the display.
The display will alternately show a value followed by an arrow pointing upwards, e.g. 022.8[↑], and a value followed by an arrow pointing to the right, e.g. 022.8[→]. Both messages are shown in combination with a blinking digit.
- To change the blinking digit, the arrow on the display needs to point upwards. Press the **↑** key repeatedly to increase the digit by steps of +1.
- To proceed and change the next digit, wait until the arrow is pointing to the right.
- After having entered the last digit, press the **↑** key when the feeder speed is followed by EX.
After flashing 3 times, the setting is saved and the display returns to the menu MAGAZINE.

5.2 ADJUSTING THE DRIVE MOTOR CURRENT (TORQUE SETTING)

The standard torque setting is LEVEL 1 and normally does not require alteration. Due to resonances by different speed levels, it may be necessary to adjust the torque setting accordingly. Adjust this feature only if heavy vibrations and too much noise occurs.

To adjust the drive motor current, proceed as follows:

1. Switch the feeder on without magazine inserted.
2. When the message MAGAZINE appears, press (beep tone) and hold the **↑** key for approximately **15 seconds** until the message CURRENT appears on the display.
Automatically LEVEL 1, LEVEL 2, LEVEL 3 and LEVEL 4 are displayed one after the other until you press the **↑** key. The selection must be made according to the lowest vibration and noise level.
3. After selecting the current level, you can proceed as described to insert a film loaded magazine.

The table below summarizes the display messages.

<i>Display message</i>	<i>Press</i>	<i>Explanation</i>
CURRENT	–	Torque setting (noise level of film transport motor).
LEVEL 1	↑	Motor runs at noise level 1. The selected level flashes 3 times and is then stored. The display automatically returns to MAGAZINE.
LEVEL 2	↑	Motor runs at noise level 2. The selected level flashes 3 times and is then stored. The display automatically returns to MAGAZINE.
LEVEL 3	↑	Motor runs at noise level 3. The selected level flashes 3 times and is then stored. The display automatically returns to MAGAZINE.
LEVEL 4	↑	Motor runs at noise level 4. The selected level flashes 3 times and is then stored. The display automatically returns to MAGAZINE.

5.3 SELECTING THE LANGUAGE

The standard language setting for the display messages is English. Nevertheless, the display language can also be changed into German or French.

To select the display language, proceed as follows:

1. Switch the feeder on without magazine inserted.
2. When the message MAGAZINE appears, press (beep tone) and hold the **↑** key for approximately **20 seconds** until the message LANGUAGE appears on the display.
Automatically ENGLISH, GERMAN and FRENCH are displayed one after the other.
3. Choose by pressing the **↑** key.

The table below summarizes the display messages.

<i>Display message</i>	<i>Press</i>	<i>Explanation</i>
Alternately: ENGLISH GERMAN FRENCH EXIT	↑	Press the ↑ key when the language of your choice appears. The selected language flashes 5 times and is then stored. The display automatically returns to MAGAZINE.

5.4 CONSULTING VALUABLE INFORMATION

The display can also be used to obtain operational feeder information.

5.4.1 Counter 1

Displays the number of cycles the feeder has made since its installation. One cycle is the total procedure of picking up a film and inserting it into the processor.

In case of error or maintenance, the number of cycles will help the GE Inspection Technologies authorized technical service to check whether parts of the feeder which are liable to wear should be replaced or not.

To consult the counter 1 value, proceed as follows:

1. Switch the feeder on without magazine inserted.
2. When the message MAGAZINE appears, press (beep tone) and hold the **↑** key for approximately **25 seconds** until the message COUNTER 1 appears on the display.
3. Release the **↑** key. Automatically, the number of cycles appears on the display.
4. Press the **↑** key to EXIT and automatically return to MAGAZINE.

5.4.2 Last error

The last error that has occurred on the feeder is stored in the feeders memory and can always be displayed again.

To consult the last error, proceed as follows:

1. Switch the feeder on without magazine inserted.
2. When the message MAGAZINE appears, press (beep tone) and hold the **↑** key for approximately **30 seconds** until the message LAST ERROR appears on the display.
3. Release the **↑** key. The last error number automatically appears on the display.
4. Press the **↑** key to EXIT and automatically return to MAGAZINE.

6. FUNCTIONAL DESCRIPTION

6.1 NDT FEEDER MAGAZINES

To feed films into the processor, two types of feeder magazines may be used:

- the universal magazine,
- the fliptop magazine.

IMPORTANT:

Always make sure the display on the **processor** is showing the OK message. If there is no OK message, the feeder will try to insert films while the transport system of the processor is not functioning. Film jamming and possible feeder and processor damage will be the result.

Following recommendations are valid for both types of magazines:

- Only load a magazine in the darkroom.
- Use only one film size per track (fig. 5).

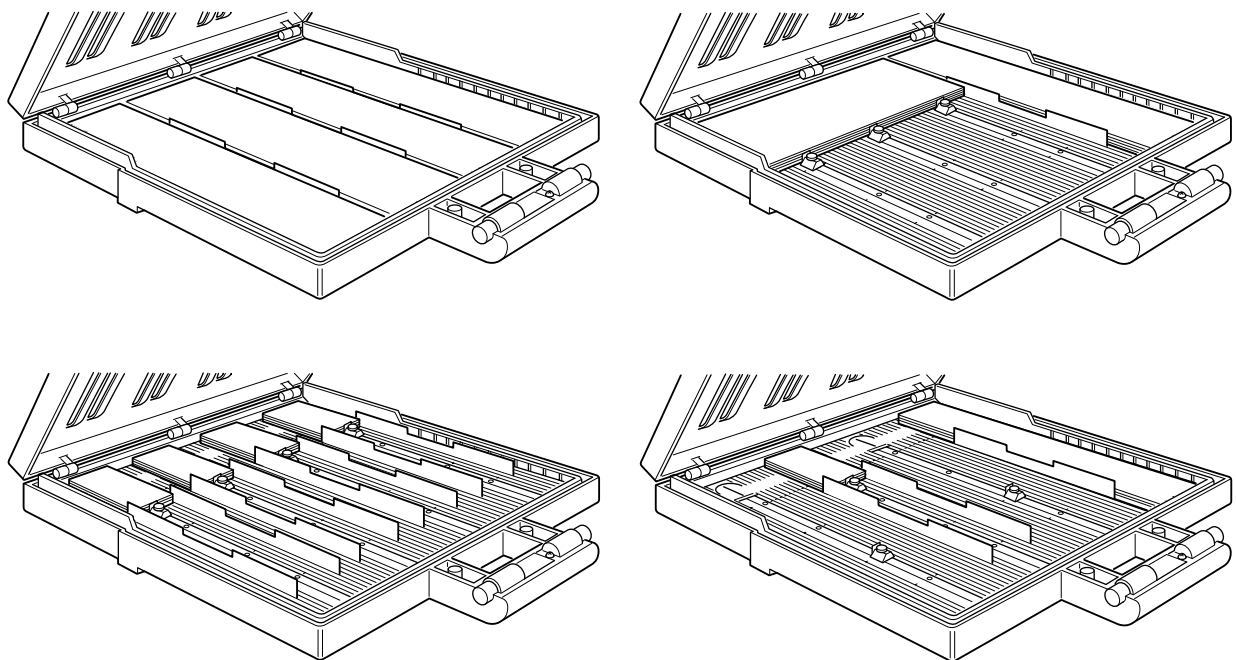


Figure 5 - One film size per track

- The smallest film size is 6 x 12 cm for the universal magazine and 6 x 18 cm for the fliptop magazine.
- The widest film size is 43 x 48 cm for both magazines.
- Fix the plug-in bars (fig. 6,1) according to the film sizes.

- Centre the films per track between 2 plug-in bars (fig. 6,1). Position the stop bracket (fig. 6,2) slightly against the film stack, leaving a space of a few millimetres and tighten the screws. This is to avoid jamming of the film.
- Each stack may contain max. 60 films of the same size.
- The maximum fill line (fig. 6,3) needs to be visible.

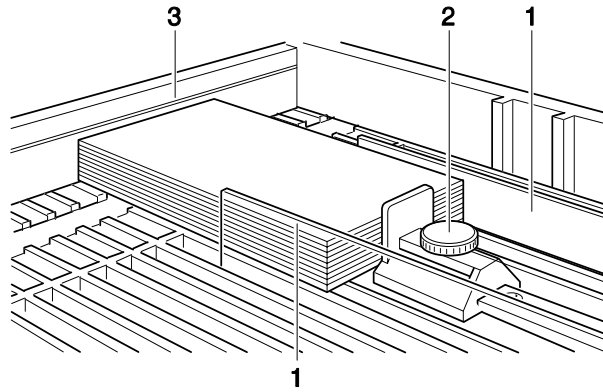


Figure 6 - Plug-in bars, stop bracket and limitation line

- Make sure the magazine is closed properly with a click.

6.1.1 Working with the universal magazine

IMPORTANT:

Always hold the universal magazine by the handle to carry it.

The magazine may only be loaded in the darkroom.

To load the magazine, proceed as follows:

1. Open the universal magazine by pushing the two black buttons on both sides of the handle simultaneously to unlock the cover (fig. 7).

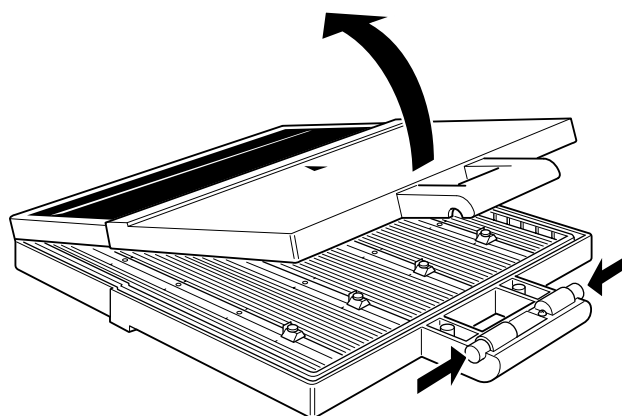


Figure 7 - Opening the universal magazine

- Sort the films according to their sizes and insert them into the magazine as shown in figures 5 and 6.
- Secure the film stacks against slipping with the plug-in bars and the adjustable stop brackets. Make sure to avoid jamming on the film stacks, by positioning the stop bracket against the film stack, leaving a space of a few millimetres.
- Close the magazine. Push the magazine cover downwards until it clicks into position.

Proceed as follows to insert films into the processor using the universal magazine:

- Switch on the NDT FEEDER without magazine inserted.
The feeder carries out a functional test which is indicated by CHECK on the display. If no magazine is inserted, the message MAGAZINE will be announced.
- Insert the magazine into the NDT FEEDER as shown in fig. 8.
The OK message on the display indicates that the magazine is inserted and unlocked. The NDT FEEDER is now ready for operation.

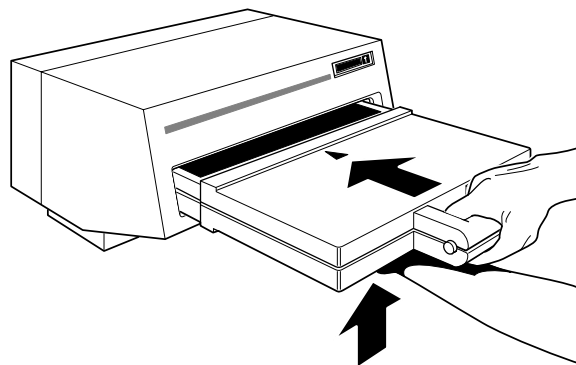


Figure 8 - Inserting the universal magazine

- Press the **↑** key.
The magazine will be locked. The NDT FEEDER starts unloading the inserted magazine and transfers the films to the processor. During this procedure, the message FILM is shown on the display.
As soon as the magazine is completely unloaded, the message EMPTY will appear (simultaneous with a continuous beep tone during 5 seconds). The magazine is unlocked.
- Remove the magazine slowly.
The message MAGAZINE appears on the display.
The NDT FEEDER is ready to receive a loaded magazine again.
- Switch off the NDT FEEDER if you do not need to process any more films.

6.1.2 Working with the floptop magazine.

The floptop magazine normally remains installed in the feeder. Films can be added to this magazine without interrupting the load cycle.

Proceed as follows to insert films into the processor via the floptop magazine:

1. Switch the NDT FEEDER on.

The feeder carries out a functional test, which is indicated by the message CHECK on the display.

If no magazine is inserted, the message MAGAZINE will be announced.

2. Insert a magazine into the feeder slot.

When the NDT FEEDER detects a properly installed magazine, the following display message will appear: OK - S - MAG.

The NDT FEEDER is now ready for operation.

To load the magazine, proceed as follows:

IMPORTANT:

Films, shorter than 18 cm length, are preferably loaded with the floptop magazine not inserted into the feeder (as with the universal magazine).

1. Open the magazine by pressing the button (fig. 9) in the middle of the magazine (opening the cover).

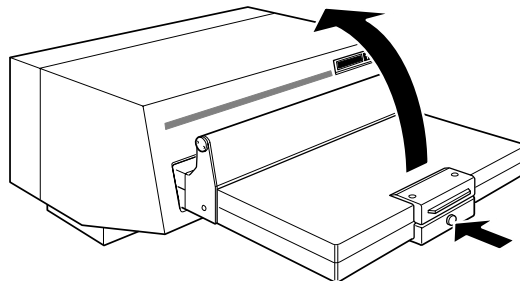


Figure 9 - Opening the floptop magazine

2. Sort the films according to their sizes. Insert the stack of films into the magazine as far as they will go (fig. 10).

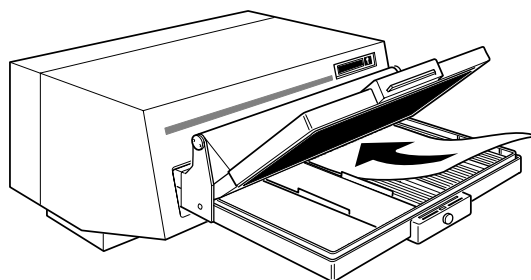


Figure 10 - Inserting films in the floptop magazine

3. Secure the film stacks against slipping with the plug-in bars and the adjustable stop brackets. Make sure to avoid jamming on the film stacks, by positioning the stop bracket against the film stack, leaving a space of a few millimetres.
4. Close the magazine. Push the magazine cover downwards until it clicks into position.
5. Press the **↑** key to start the magazine unloading procedure.
During this procedure, the message FILM appears on the display. As soon as the magazine is completely unloaded, the message EMPTY appears on the display (simultaneously with a continuous beep tone during 5 seconds).
6. You can remove the magazine if necessary. However, since you are working with a fliptop magazine, it is recommended that you leave the magazine installed in the NDT FEEDER slot.
7. Switch the NDT FEEDER off (fig. 1,4) if no more films need to be processed.

6.2 INTERRUPTING AND RESUMING THE UNLOADING PROCEDURE

You can interrupt the magazine unloading procedure at all times.

This may be necessary for instance in case:

- you have one or more “emergency” films to process,
- you want to insert another magazine, loaded with priority films.

The interrupting procedures are different for the universal and the fliptop magazine.

6.2.1 Universal magazine

To interrupt the unloading procedure, proceed as follows:

Press	Display message	Explanation
	FILM	The magazine unloading is in progress.
↑	WAIT (Blinking)	The present film is being fed into the processor.
	OK	The magazine is now unlocked. Remove the magazine from the feeder.
	MAGAZINE	Place the universal magazine on a stable work surface. Open the magazine and place the “emergency” films on top of the existing films according to their size. Close and insert the universal magazine into the feeder slot.
	OK	The magazine is inserted, but still unlocked.

To resume the unloading procedure, proceed as follows:

Press	Display message	Explanation
↑	FILM	The magazine is locked and the unloading procedure continues.



6.2.2 Fliptop magazine

To interrupt the unloading procedure, proceed as follows:

Press	Display message	Explanation
	FILM	The magazine unloading is in progress.
↑	WAIT (Blinking)	The present film is being fed into the processor.
	↑↑ FILM ↑↑ (Blinking)	The magazine remains locked. The magazine can be opened and films may be added on top or at the bottom of the stack of their size (in darkroom conditions). Close the magazine.

To resume the unloading procedure, proceed as follows:

Press	Display message	Explanation
↑	FILM	The magazine is locked and the unloading procedure continues.

IMPORTANT:

If the ↑ key is not pressed after adding films and closing the fliptop magazine, the cycle will be interrupted after the last film in the feeder is inserted into the processor. The display indicates OK and the magazine is unlocked.



7. TROUBLESHOOTING

7.1 POSSIBLE ERRORS

The main messages, their respective causes and their corrective actions are listed below.

Error indication	Meaning/cause	Corrective action
MAGAZINE in combination with an acoustic signal.	This display message appears after the ↑ key was pressed. There is no magazine inserted or the magazine has not been inserted properly.	Insert the magazine correctly as far as it will go. Then press the ↑ key.
2-FILMS, alternated with LS-1, LS-2, LS-3 or LS-4	Indicates a double film in the magazine. The feeder can not separate the films (error 1). The number behind LS indicates the film track where the double film is located. Count the tracks from left to right.	Take the magazine by the handle and remove it from the feeder slot. Separate the films manually in the darkroom. Re-insert the magazine into the feeder slot and resume the unloading procedure.
ERROR 20 to ERROR 99, blinking on the display in combination with acoustic signal.	Indicates a system error.	Note down the error and report to the GE Inspection Technologies authorized technical service.

IMPORTANT:

Some error messages of the ERROR XX type are accompanied by additional messages, which indicate possible reasons for the error, e.g. MGV 2 indicates that the failure is solenoid valve 2.

Note down both messages and report them to the technical service.

7.2 RESOLVING ERRORS

As described above, errors are indicated by means of display messages and an acoustic signal.

You can stop the acoustic signal by pressing the ↑ key briefly.

To resolve the error and clear the error message from the display, proceed as follows:

1. Hold the ↑ key down until the display message changes to RESET 3 which will count down from 3 to 1 and finally turn into RESET OK.
2. Release the ↑ key
The NDT FEEDER now starts a self-test, trying to detect and resolve the error automatically. The message CHECK is displayed.
If the feeder succeeds in resolving the error itself, one of the following messages will appear: MAGAZINE or OK or OK-S-MAG.
If not, the error message remains displayed.



3. Call a GE Inspection Technologies authorized technical service. If the technical service can not help over the phone, we recommend that you disconnect and remove the NDT FEEDER temporarily and continue with the conventional processor feed table.
4. You can still feed films into the processor sheet-by-sheet until the technical service has repaired the NDT FEEDER.

7.3 COUNTER 1

Displays the number of cycles the feeder has made since the installation. For parts, which are liable to wear, it could be the signal to replace these parts (see chapter 4.4).

7.4 LAST ERROR

The last error that has occurred on the feeder, will be kept in the memory and can always be displayed again (see chapter 4.5).

8. MAINTENANCE

The NDT FEEDER is almost user maintenance-free. The surface of the machine can be cleaned with a slightly moist, soft and non-linting cloth.

Any commercial cleaning agent may be used provided it does not contain any solvents and/or acids. The feeder may be disconnected from the processor for maintenance purposes so that film processing does not have to be interrupted.

IMPORTANT:

Neither water nor moisture must penetrate into the feeder during cleaning.

9. TECHNICAL SPECIFICATIONS

Type

NDT FEEDER type 5204 / 140

Dimensions

Length, exclusive magazine 42.5 cm

Length, inclusive magazine 75 cm

Width 53.5 cm

Height 27 cm

Weight, mass exclusive magazine 25 kg

Electrical connection

Separate mains connection required.

Voltage 100 / 120 / 200 / 208 / 230-240 V, 50 / 60 Hz

Setting ex-factory 230 V

Current consumption at 100 V 0.60 A

Current consumption at 120 V 0.55 A

Current consumption at 200 V 0.40 A

Current consumption at 208 V 0.40 A

Current consumption at 230-240 V 0.35 A

Noise level

Feeder noise level < 60 dB/A

Film sizes

Universal magazine

Film width: 6 to 43 cm

Film length: 12 to 48 cm

Fliptop magazine

Film width: 6 to 43 cm

Film length: 18 to 48 cm

Capacity

Up to 4 film tracks max. 60 films/track

Maximum capacity (4 film tracks loaded) 240 films/magazine

Processing speed

Depends on the processing speed of the processor in use.

The adjustment range is from 10 to 300 cm/min. in steps of 0.1 cm/min.



Extras required by processor type

<i>To be added</i>	<i>Type</i>	<i>Order code</i>
Feeder universal magazine	5204 / 401	368AJ
Feeder floptop magazine	5204 / 431	3679E

Safety

The feeder has been tested and approved according to the following standards and directives:

IEC 950, EN 60950 / VDE 0805, CSA C22.2 No 950, UL 1950 (Safety of Information Technology Equipment), UL 775 (Graphic Arts Equipment), EC Directive 89/392 (Directive relating to machinery), and EC Directive 89/336 (Directive relating to Electromagnetic compatibility).

IMPORTANT (North American users only):

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a CLASS A computing device pursuant to Subpart J Part 15 of FOC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

GE Inspection Technologies reserves the right to modify and improve their equipment in order to adapt them to the latest technological developments.

10. INSTRUCTIONS IN BRIEF

<i>Display message</i>	<i>Explanation / Action</i>
CHECK	Indicates the automatic functional check carried out after switching on the feeder.
COUNTER 1	Indicates the number of cycles the feeder has made since installation. This number of cycles could be the signal for the GE Inspection Technologies authorized technical service to check parts that are liable to wear. To reach COUNTER 1 press the ↑ key for approximately 25 seconds.
CURRENT LEVEL 1 (2, 3, 4)	Indicates the torque setting. If the noise level of the drive motor seems to be too high, the torque setting can be changed. To reach CURRENT press and hold the ↑ key for approximately 15 seconds. The automatic count down from LEVEL 4 to LEVEL 1 will be displayed. Press the ↑ key when the lowest noise level is reached.
EMPTY	Indicates that the magazine is empty, all films are inserted. The magazine can be removed.
EXIT	Indicates ending the change of program.
ERROR XX	Indicates that the feeder is unable to work properly. The error number is displayed. If the error cannot be solved, write down the error number and report to a GE Inspection Technologies authorized technical service.
FILM	Indicates that the feeder is inserting film into the processor. Do not try to insert new film into the feeder magazine and do not try to pull out the magazine since it is locked in place.
↑↑FILM↑↑	Indicates that films may be added to the fliptop magazine. The insert cycle is interrupted and new films may be added in the feeder magazine. To resume unloading, press the ↑ key.
2-FILMS LS-1 (2, 3, 4)	Indicates that the feeder can not separate 2 films. The film track is indicated. The films have to be separated manually in the darkroom.
LANGUAGE	Indicates that ENGLISH, GERMAN or FRENCH may be chosen as display languages by pressing the ↑ key. To reach the message LANGUAGE, press and hold the ↑ key for approximately 20 seconds.
LAST ERROR	Indicates the last error (error number) occurred on the feeder. To reach the message LAST ERROR, press and hold the ↑ key for approximately 30 seconds.
MAGAZINE	Indicates the standard feeder setting. The MAGAZINE message appears after the feeder is switched on and has carried out the functional check. The feeder magazine may be inserted or program changes may be carried out.
MGV X	Indicates a failure on solenoid valve X. Write down the error number and contact the GE Inspection Technologies authorized technical service.

<i>Display message</i>	<i>Explanation / Action</i>
OK	Indicates that the universal magazine is inserted and unlocked. The unloading procedure can be started by pressing the ↑ key.
OK-S-MAG	Indicates that the fliptop magazine is inserted and unlocked. The unloading procedure can be started by pressing the ↑ key.
RESET 3, 2, 1	Indicates that the feeder is resolving errors. To resolve the error and clear the message from the display press and hold the ↑ key until the display counts down from RESET 3 to RESET 1 and finally shows RESET OK.
SPEED	Indicates the adjustment of the feeder speed. Press and hold the ↑ key for approximately 10 seconds. To adjust the speed setting, press the ↑ key when SET appears. The blinking digit can be changed by pressing the ↑ key when the arrow points upwards. To move to the next digit, wait until the arrow points to the right, then press the ↑ key. To save the settings press the ↑ key when EX appears on the display.
WAIT	Indicates that the unloading procedure is interrupted but the feeder is still inserting the ongoing films. The ↑↑FILM↑↑ message must appear on the display before new films may be loaded in the fliptop magazine. The OK message must be displayed before taking out the universal cassette.